

FCC 47 CFR PART 15 SUBPART E INDUSTRY CANADA RSS-247 ISSUE 1

C2PC TEST REPORT

FOR

MODEL NUMBER: 7260HMW

FCC ID: 2AB5I-7260H IC: 11929A-7260H

REPORT NUMBER: R11308192-E1

ISSUE DATE: 2016-06-07

Prepared for

GE Inspection Technologies, LP 50 Industrial Park Road Lewiston, PA 17044, USA

Prepared by

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NVLAP®

NVLAP Lab code: 200246-0

Revision History

Ver.	Issue Date	Revisions	Revised By
1	2016-06-06	Initial Issue	Ron Reichard
2	2016-06-07	Added 26 dB and 99% OBW data.	Jeff Moser

TABLE OF CONTENTS

1. DA	ATA REUSE	5
1.1.	INTRODUCTION	5
1.2.	DIFFERENCES	5
1.3.	TESTING PERFORMED	5
1.4.	REFERENCE DETAIL SECTION	5
2. AT	TTESTATION OF TEST RESULTS	6
3. TE	ST METHODOLOGY	7
4. FA	ACILITIES AND ACCREDITATION	7
5. CA	ALIBRATION AND UNCERTAINTY	7
5.1.	MEASURING INSTRUMENT CALIBRATION	7
5.2.	SAMPLE CALCULATION	7
5.3.	MEASUREMENT UNCERTAINTY	8
6. EG	QUIPMENT UNDER TEST	9
6.1.	DESCRIPTION OF EUT	9
6.2.	MAXIMUM OUTPUT POWER	9
6.3.	DESCRIPTION OF AVAILABLE ANTENNAS	9
6.4.	SOFTWARE AND FIRMWARE	9
6.5.	WORST-CASE CONFIGURATION AND MODE	10
6.6.	DESCRIPTION OF TEST SETUP	10
7. TE	ST AND MEASUREMENT EQUIPMENT	12
8. ME	EASUREMENT METHODS	13
9. AN	NTENNA PORT TEST RESULTS	14
9.1.	ON TIME AND DUTY CYCLE	14
9.2.	802.11a SISO MODE IN THE 5.8 GHz BAND	
	2.1. 26 dB BANDWIDTH 2.1. 99% BANDWIDTH	
	2.2. OUTPUT POWER	28
	2.3. Maximum Power Spectral Density (PSD)	30
	2.4. STRADDLE CHANNEL OUTPUT POWER AND PSD	
<i>9.3.</i> 9.3	802.11n HT20 SISO MODE IN THE 5.8 GHz BAND 3.1. 26 dB BANDWIDTH	
9.3	3.1. 99% BANDWIDTH	44
	3.2. OUTPUT POWER	
	3.3. Maximum Power Spectral Density (PSD)	
	Page 3 of 99	

9.4. 80	02.11n HT40 MIMO MODE IN THE 5.8 GHz BAND	61
9.4.1.	26 dB BANDWIDTH	
9.4.1.	99% BANDWIDTH	66
9.4.2.	OUTPUT POWER	71
9.4.3.	Maximum Power Spectral Density (PSD)	73
9.4.4.	STRADDLE CHANNEL OUTPUT POWER AND PSD	
9.5. 80	02.11ac VHT80 MIMO MODE IN THE 5.8 GHz BAND	81
9.5.1.	26 dB BANDWIDTH	81
9.5.1.	99% BANDWIDTH	85
9.5.2.	OUTPUT POWER	88
9.5.3.	Maximum Power Spectral Density (PSD)	90
9.5.4.	STRADDLE CHANNEL OUTPUT POWER AND PSD	
10. SET	UP PHOTOS	98

1. DATA REUSE

1.1. INTRODUCTION

This is a Class 2 Permissive change report to update testing and grant to meet 15.407 (b)(4)(ii)

1.2. DIFFERENCES

No changes have been made to the product.

1.3. TESTING PERFORMED

Testing performed under this Report (R11308192-E1) are Emissions Bandwidth, Conducted Output power and Power Spectral Density. All other data is referenced to FCCID: 2AB5I-7260H, IC: 11929A-7260H.

1.4. REFERENCE DETAIL SECTION

Equipment	Reference FCC ID	Type
Class		Grant
UNII	FCC ID: 2AB5I-7260H,	C2PC
	IC: 11929A-7260H	

UL LLC

FORM NO: 03-EM-F00858

2. ATTESTATION OF TEST RESULTS

COMPANY NAME: GE Inspection Technologies, LP

50 Industrial Park Road Lewiston, PA 17044, USA

MODEL: 7260HMW

SERIAL NUMBER: 1678

DATE TESTED: 2016-06-01 to 2016-06-06

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart E Pass

INDUSTRY CANADA RSS-247 Issue 1 Pass

INDUSTRY CANADA RSS-GEN Issue 4 Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released

For UL LLC By:

Jeff Moser

EMC Program Manager

UL - Consumer Technology Division

Prepared By:

Ron Reichard EMC Project Lead

UL - Consumer Technology Division

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, RSS-GEN Issue 4, RSS-247 Issue 1.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Dr., Research Triangle Park, NC 27709, USA and 2800 Suite B, Perimeter Park Drive, Morrisville, NC 27560.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0. The full scope of accreditation can be viewed at http://www.nist.gov/nvlap/.

5. CALIBRATION AND UNCERTAINTY

5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

FORM NO: 03-EM-F00858

DATE: 2016-06-07

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER		UNCERTAINTY
Total RF power, conducted	+/-	0.45
RF power density, conducted	+/-	1.50
Spurious emissions, conducted	+/-	2.94
All emissions, radiated up to 40 GHz	+/-	5.36
Temperature	+/-	0.07
Humidity	+/-	2.26
DC and low frequency voltages	+/-	1.27
Conducted Emissions (0.150-30MHz)	+/-	2.37

Uncertainty figures are valid to a confidence level of 95%.

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The equipment under test is an industrial remote visual inspection video borescope. It is used to visually inspect high value assets without having to tear them down. i.e., power gen turbines and aircraft engines.

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually but not Simultaneously.

For 802.11n/ac modes 802.11n HT20/802.11ac VHT20 (20 MHz channel bandwidth), 802.11n HT40/802.11ac VHT40 (40 MHz channel bandwidth) and 802.11ac VHT80 (80MHz channel bandwidth) mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually and simultaneously.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
(141112)		(ubiii)	(11100)
5745-5825	802.11a	16.83	48.19
5745-5825	802.11n HT20	17.90	61.66
5755-5795	802.11n HT40	19.27	84.53
5775	802.11ac VHT80	18.90	77.62

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two Ethertronics 1000418 antennas, each with a maximum gain of 3.42 dBi in the 5.8GHz band

6.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Team Build 2, rev. 1.

The EUT driver software installed during testing was SVNDISUIO, rev. 15.0.0.16

The test utility software used during testing was Intel DRTU 1.6.0-0510 utility DRTU Version during transmitter test.

Page 9 of 99

6.5. WORST-CASE CONFIGURATION AND MODE

Worst-case data rates as provided by the client were:

802.11a mode: 6 Mbps 802.11n HT20mode: HT4 802.11n HT40mode: HT8 802.11ac VHT80mode: VHT6

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List							
Description Manufacturer Model Serial Number FCC ID							
Mouse	Microsoft	X08-99491	None	None			

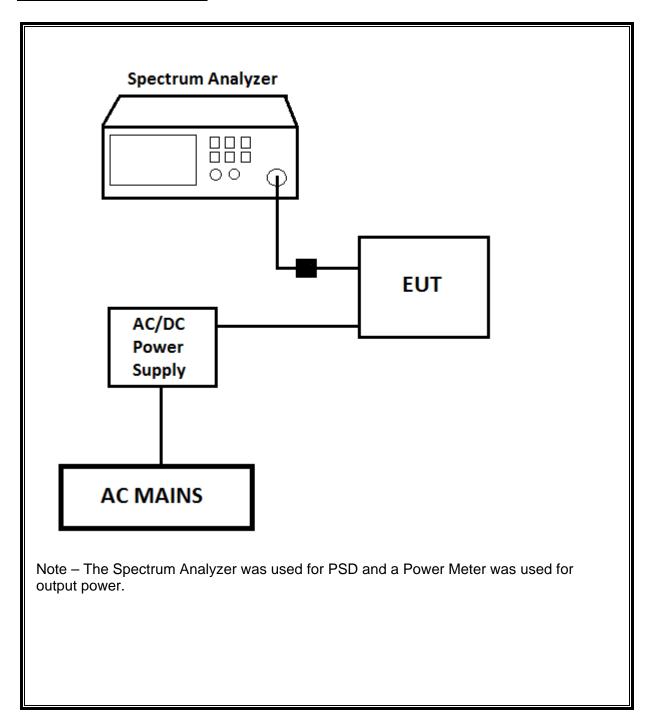
I/O CABLES

	I/O Cable List						
Cable No		# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks	
1	USB	3	USB	1/0	1.5	None	
2	Mains	1	Plug		1.5	None	

TEST SETUP

The EUT is installed in a host enclosure during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Conducted Room 2				
T146	Spectrum Analyzer	Agilent Technologies	E4446A	2015-06-17	2016-06-17
PWM003	RF Power Meter	Keysight Technologies	N1911A	2015-06-08	2016-06-30
PWS003	Peak and Avg Power Sensor, 50MHz to 6GHz	Keysight Technologies	E9323A	2015-06-05	2016-06-30
HI0080	Temp/Humid/Pressure Meter	Springfield	HI0080	2015-07-01	2016-07-31
MM0168	True RMS Multimeter	Agilent	U1232A	2015-08-17	2016-08-31
76021	DC Regulated Power Supply	CircuitSpeciali sts.Com	CSI3005X5	NA	NA

8. MEASUREMENT METHODS

26 dB Emission BW: KDB 789033 D02 v01r02, Section C.

99% Occupied BW: KDB 789033 D02 v01r02, Section D.

Conducted Output Power: KDB 789033 D02 v01r02, Section E.3.b (Method PM-G).

Power Spectral Density: KDB 789033 D02 v01r02, Section F.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

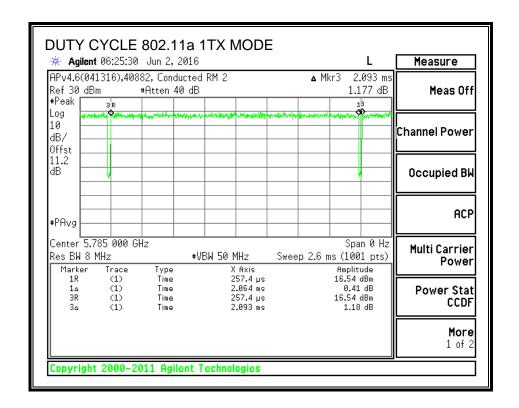
PROCEDURE

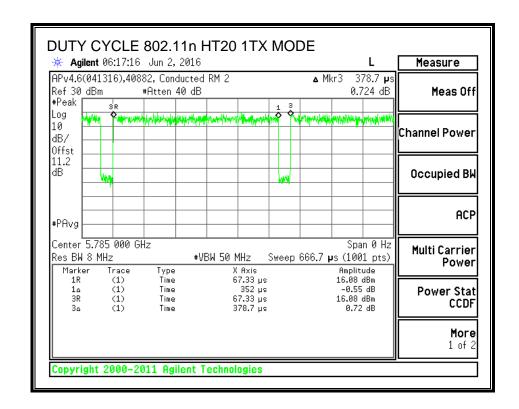
KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

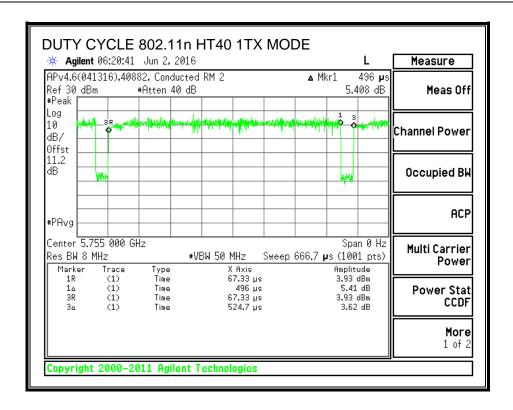
Mode	ON Time	Period	Duty Cycle	Duty	Duty Cycle	1/B
	В		х	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
802.11a 1TX	2.064	2.093	0.986	98.61%	0.00	0.010
802.11n HT20 1TX	0.352	0.379	0.929	92.95%	0.32	2.841
802.11n HT40 1TX	0.496	0.525	0.945	94.53%	0.24	2.016
802.11ac VHT80 1TX	0.0678	0.0945	0.717	71.73%	1.44	14.749

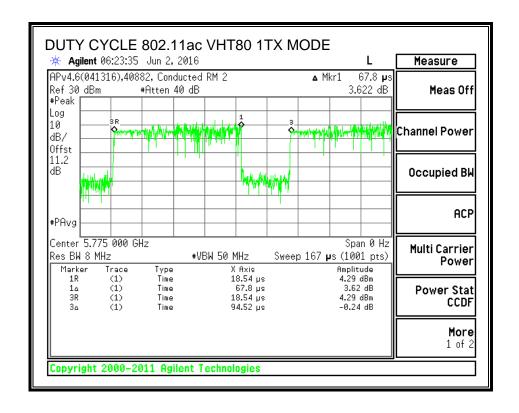
DUTY CYCLE PLOTS





DATE: 2016-06-07





9.2. 802.11a SISO MODE IN THE 5.8 GHz BAND

9.2.1. 26 dB BANDWIDTH

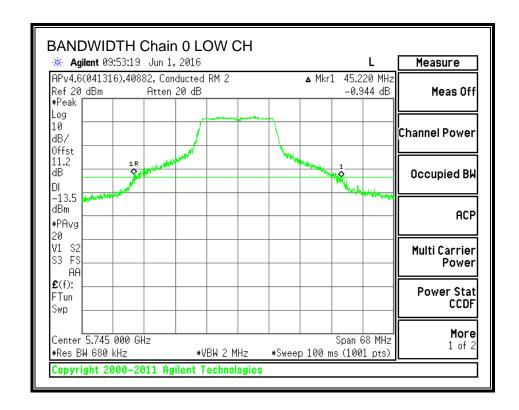
LIMITS

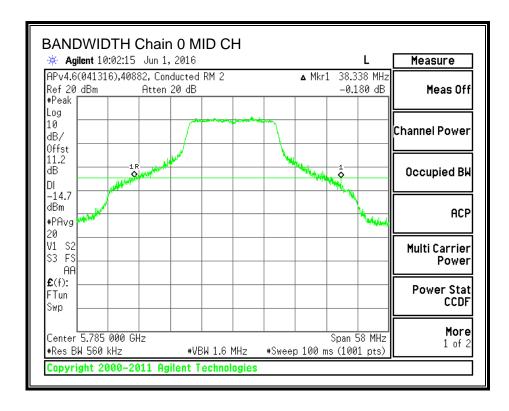
None; for reporting purposes only.

RESULTS

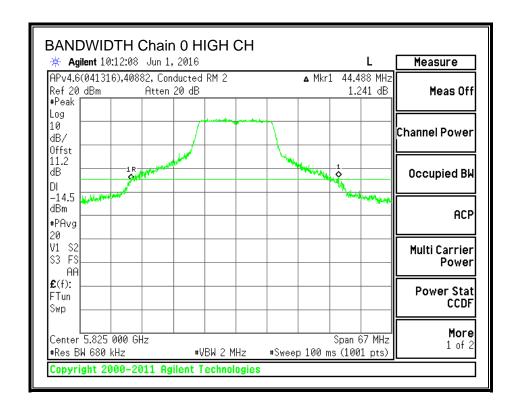
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5745	45.22	42.90
Mid	5785	38.34	44.15
High	5825	44.49	42.30
144	5720	38.88	42.84

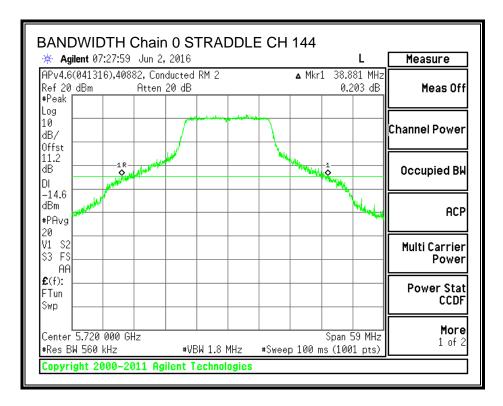
26 dB BANDWIDTH, Chain 0



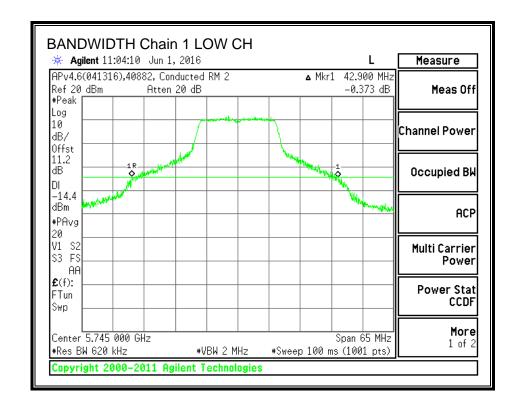


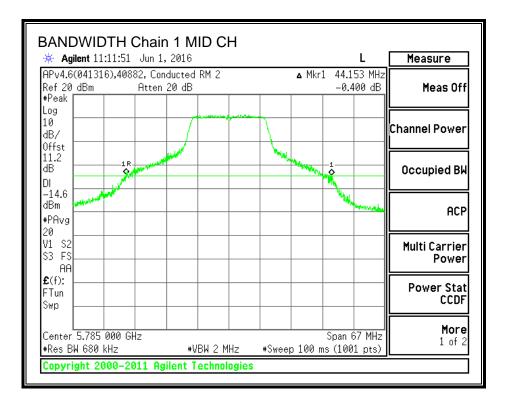
DATE: 2016-06-07

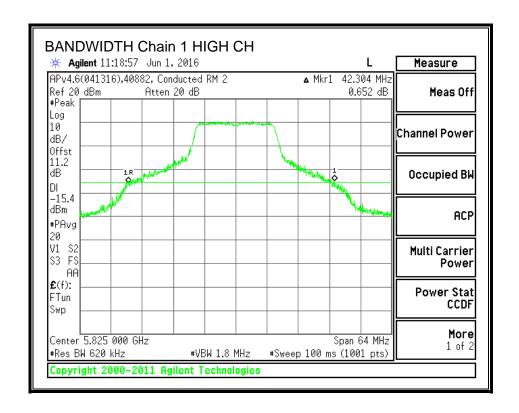


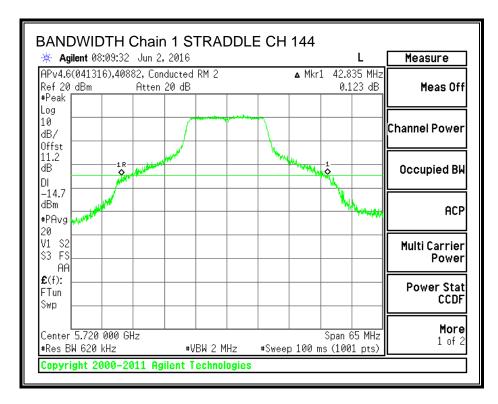


26 dB BANDWIDTH, Chain 1









9.2.1. 99% BANDWIDTH

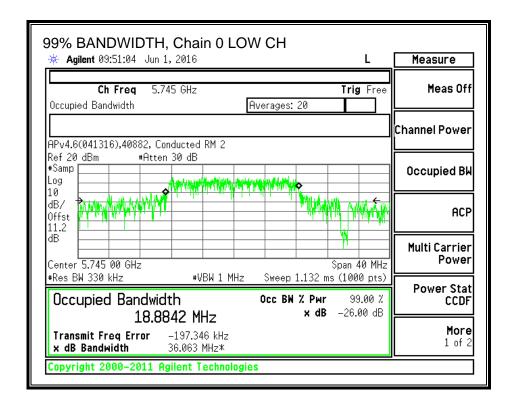
LIMITS

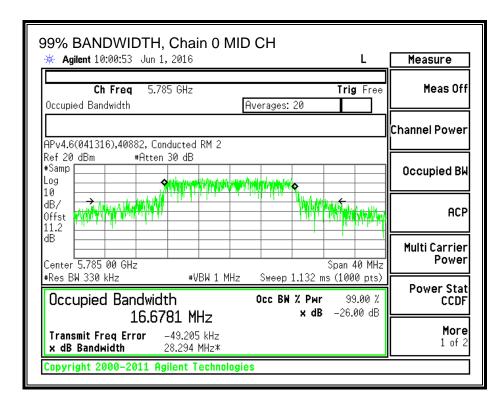
None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5745	18.8842	17.1608
Mid	5785	16.6781	18.8487
High	5825	17.2346	17.9335
144	5720	16.7414	18.0860

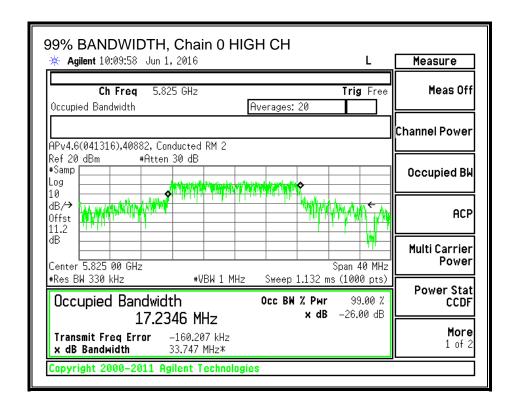
99% BANDWIDTH, Chain 0

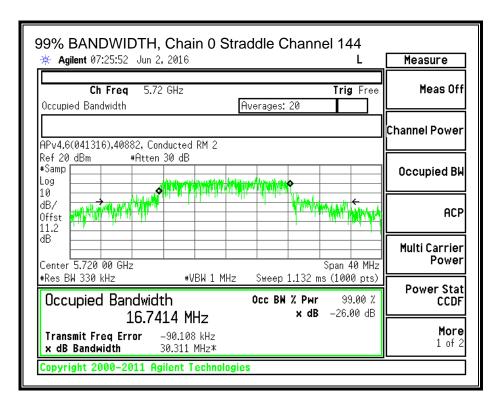




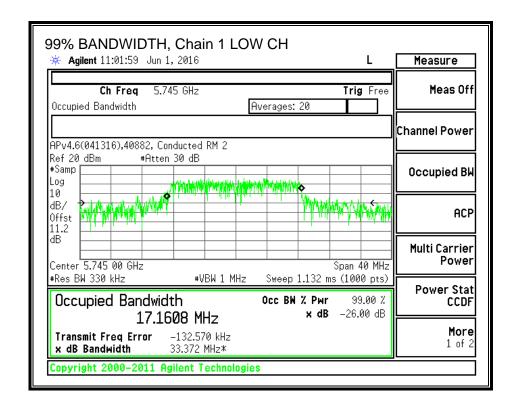
DATE: 2016-06-07 IC: 11929A-7260H

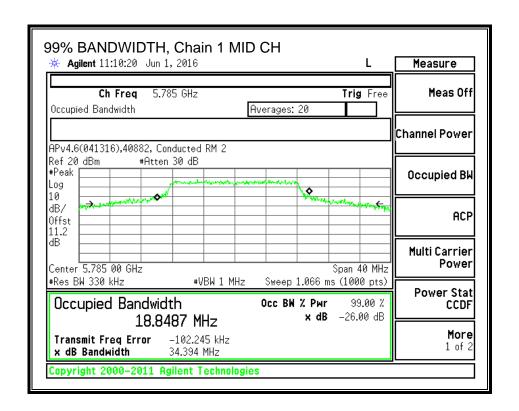
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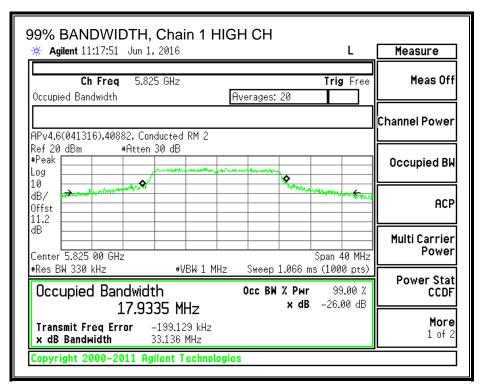




99% BANDWIDTH, Chain 1







DATE: 2016-06-07

9.2.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	3.42	30.00
Mid	5785	3.42	30.00
High	5825	3.42	30.00

Chain A Output Power Results

Channel	Frequency	Chain A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	16.83	16.83	30.00	-13.17
Mid	5785	16.34	16.34	30.00	-13.66
High	5825	16.04	16.04	30.00	-13.96

Chain B Output Power Results

Channel	Frequency	Chain B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	16.10	16.10	30.00	-13.90
Mid	5785	16.36	16.36	30.00	-13.64
High	5825	15.73	15.73	30.00	-14.27

DATE: 2016-06-07

REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

9.2.3. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

DATE: 2016-06-07

RESULTS

Antenna Gain and Limits

Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	3.42	30.00
Mid	5785	3.42	30.00
High	5825	3.42	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

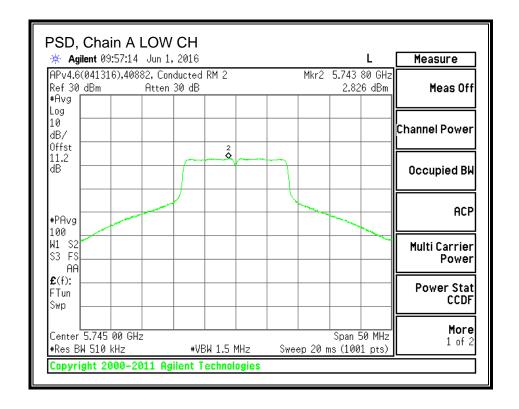
Chain A PSD Results

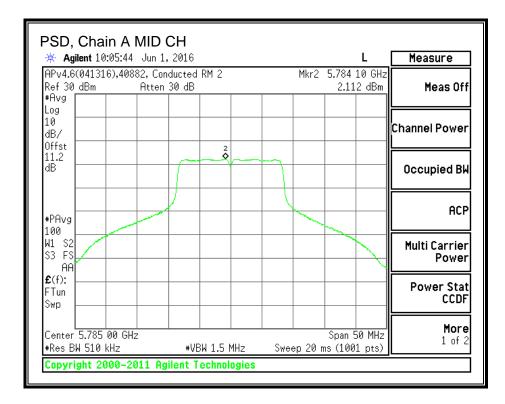
Channel	Frequency	Chain A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	2.83	2.83	30.00	-27.17
Mid	5785	2.11	2.11	30.00	-27.89
High	5825	1.68	1.68	30.00	-28.32

Chain B PSD Results

Channel	Frequency	Chain B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	2.08	2.08	30.00	-27.92
Mid	5785	1.87	1.87	30.00	-28.13
High	5825	1.44	1.44	30.00	-28.56

PSD, Chain A

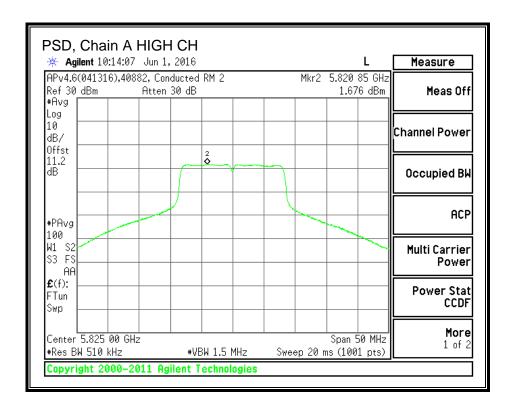




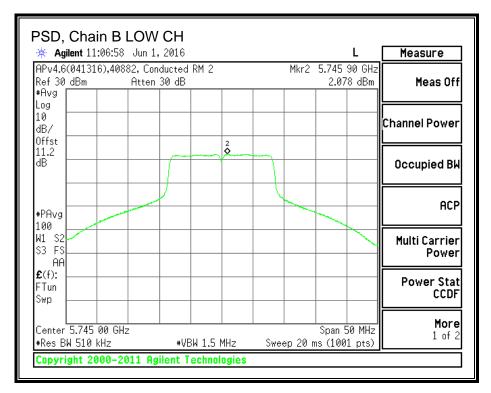
DATE: 2016-06-07

IC: 11929A-7260H

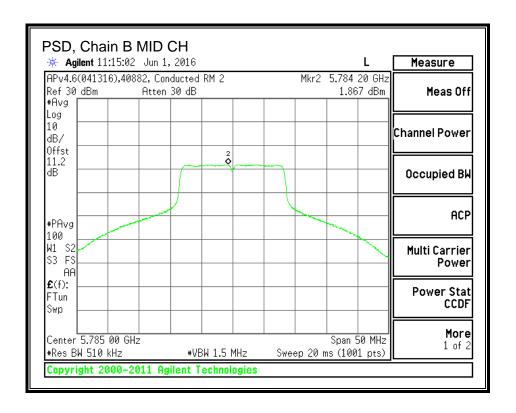
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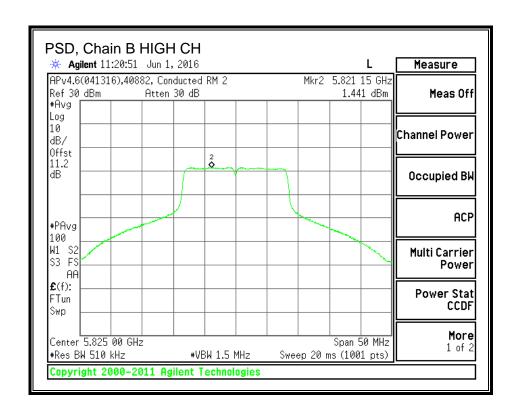


PSD, Chain B



Page 33 of 99





9.2.4. STRADDLE CHANNEL OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

RESULTS

STRADDLE CHANNEL 144 - 802.11a 20 MHz SISO RESULTS

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Directional	Power	PSD
		Gain	Limit	Limit
	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	3.42	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
--------------------	------	------------------------------------------------

Chain A Output Power Results

Channel	Frequency	Chain A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	9.60	9.60	30.00	-20.40

Chain A PSD Results

Channel	Frequency	Chain A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	2.34	2.34	30.00	-27.66

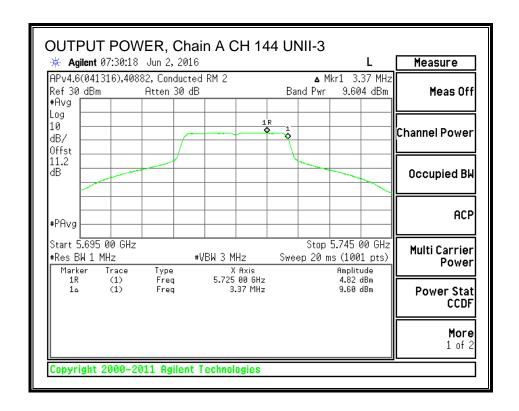
Chain B Output Power Results

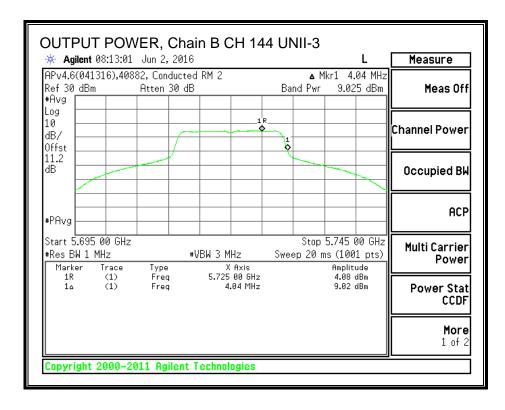
Onam D	Onam 2 Carpar Coro. Nocaro								
Channel	Frequency	Chain B	Total	Power	Power				
		Meas	Corr'd	Limit	Margin				
		Power	Power						
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)				
144	5720	9.03	9.03	30.00	-20.97				

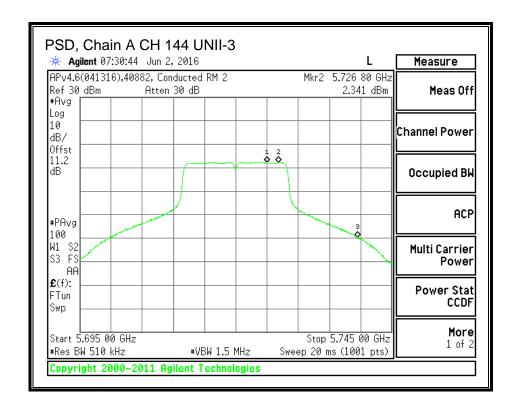
Chain B PSD Results

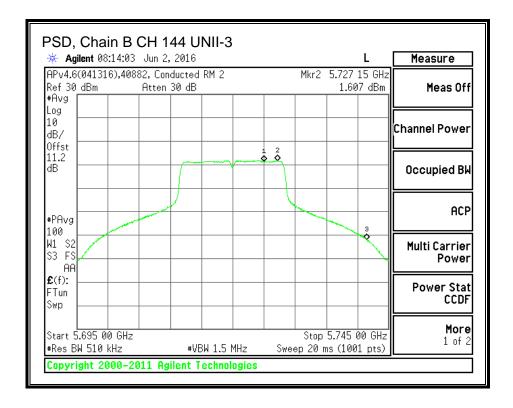
_	Chain b i	ani bi 3b kesuits								
I	Channel	Frequency	Chain B	Total	PSD	PSD				
١			Meas	Corr'd	Limit	Margin				
ı			PSD	PSD						
١		(MHz)	(dBm)	(dBm)	(dBm)	(dB)				
ſ	144	5720	1.61	1.61	30.00	-28.39				

DATE: 2016-06-07









9.3. 802.11n HT20 SISO MODE IN THE 5.8 GHz BAND

9.3.1. 26 dB BANDWIDTH

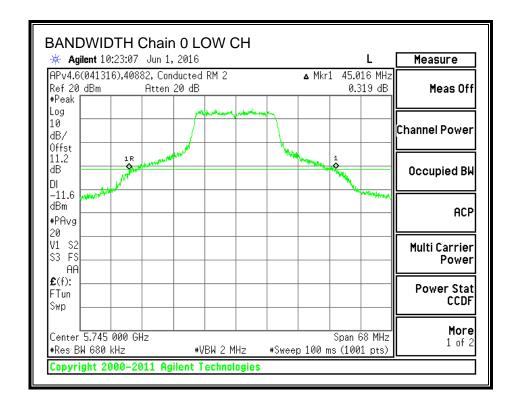
LIMITS

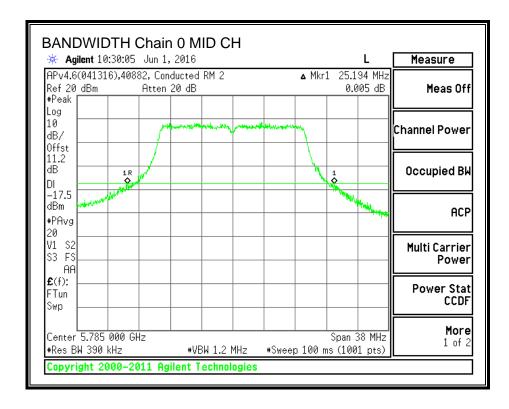
None; for reporting purposes only.

RESULTS

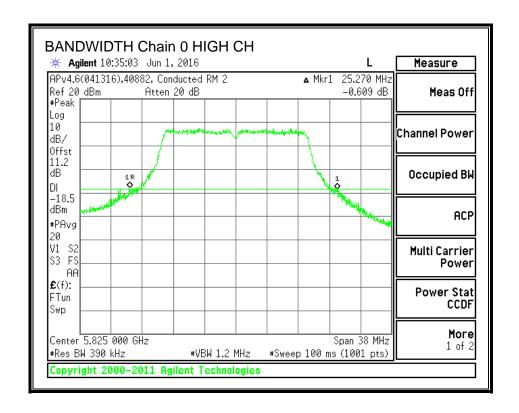
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5745	45.02	44.56
Mid	5785	25.19	44.81
High	5825	25.27	44.56
144	5720	45.22	46.27

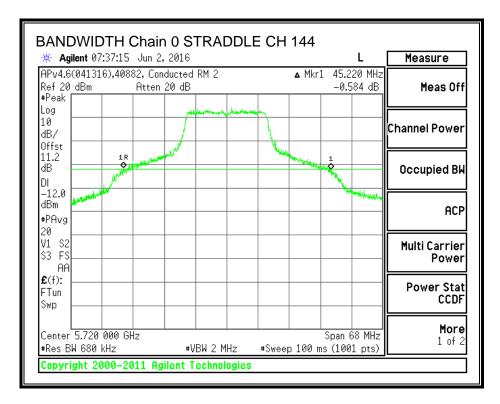
26 dB BANDWIDTH, Chain 0



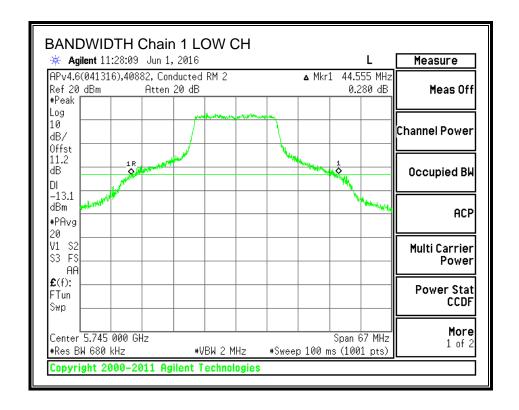


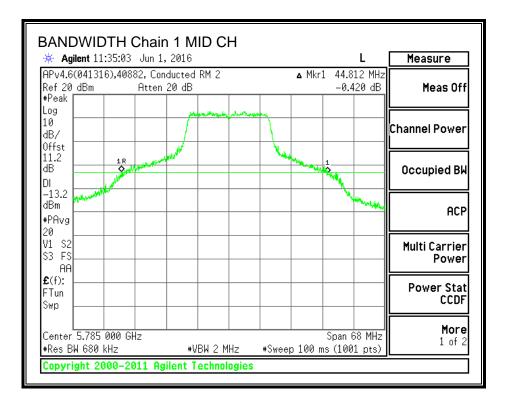
DATE: 2016-06-07



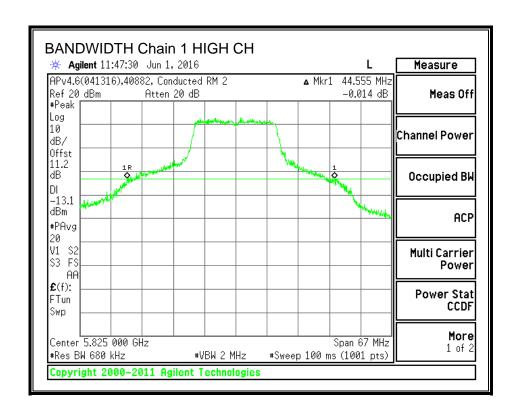


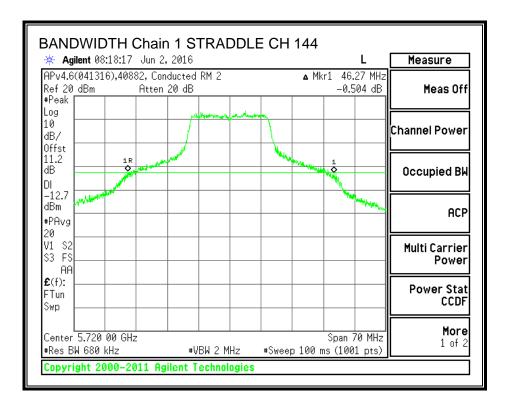
26 dB BANDWIDTH, Chain 1





DATE: 2016-06-07





9.3.1. 99% BANDWIDTH

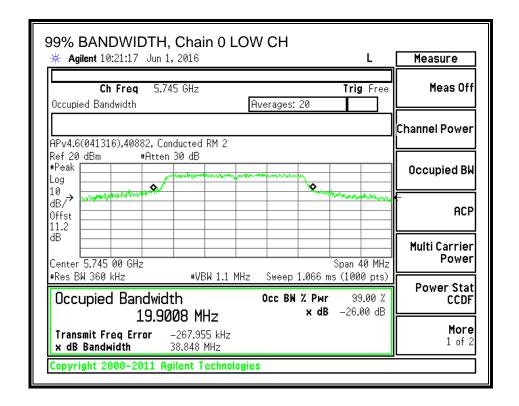
LIMITS

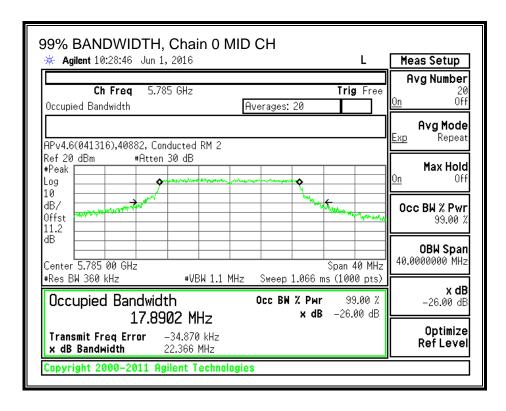
None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5745	19.9008	19.6620
Mid	5785	17.8902	19.6066
High	5825	17.9114	19.3141
144	5720	19.7467	19.8344

99% BANDWIDTH, Chain 0

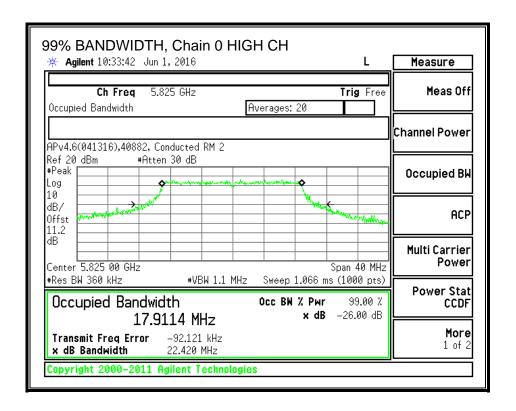


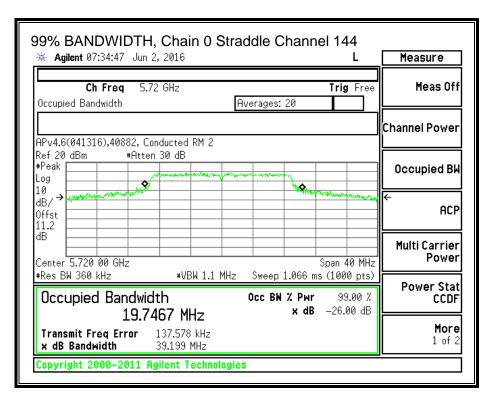


DATE: 2016-06-07

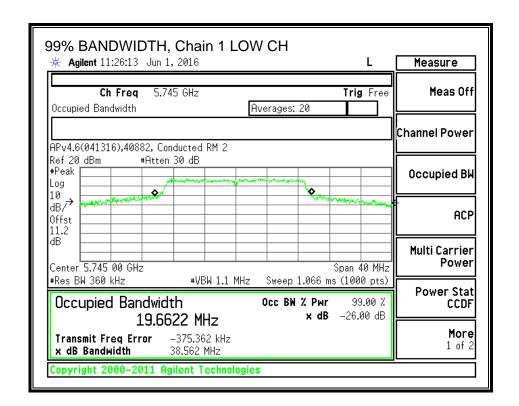
IC: 11929A-7260H

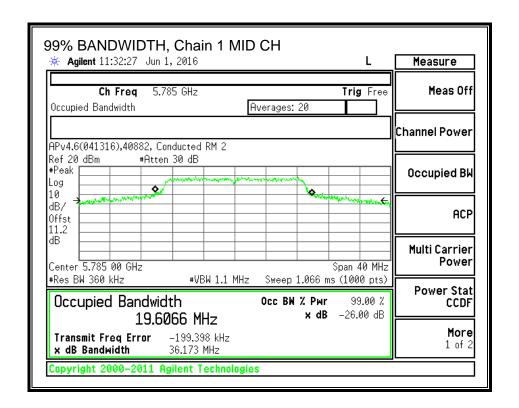
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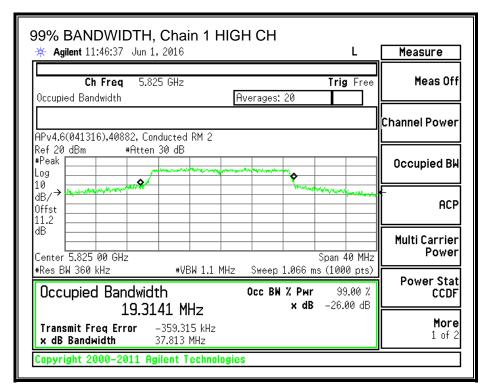




99% BANDWIDTH, Chain 1







DATE: 2016-06-07

REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

9.3.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

DATE: 2016-06-07

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	3.42	30.00
Mid	5785	3.42	30.00
High	5825	3.42	30.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd Power
--------------------	------	------------------------------------------

Chain A Output Power Results

Onam / t	onam // output i owor resource				
Channel	Frequency	Chain A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	17.58	17.90	30.00	-12.10
Mid	5785	16.95	17.27	30.00	-12.73
High	5825	16.19	16.51	30.00	-13.49

Chain B Output Power Results

Onam B	Onam B Catput i Ower results				
Channel	Frequency	Chain B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	16.80	17.12	30.00	-12.88
Mid	5785	17.03	17.35	30.00	-12.65
High	5825	16.34	16.66	30.00	-13.34

DATE: 2016-06-07

REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

9.3.3. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

DATE: 2016-06-07

RESULTS

Antenna Gain and Limits

Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	3.42	30.00
Mid	5785	3.42	30.00
High	5825	3.42	30.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
--------------------	------	----------------------------------------

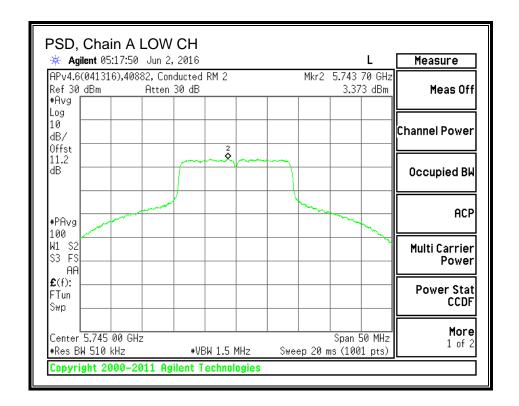
Chain A PSD Results

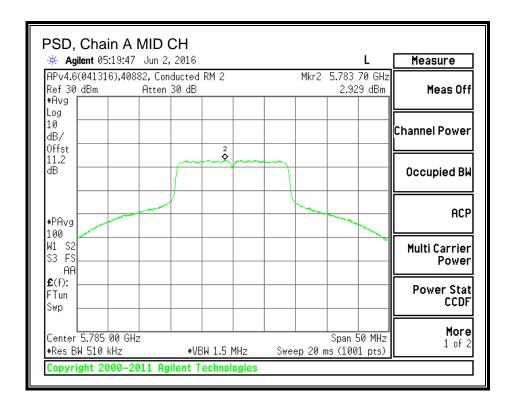
Channel	Frequency	Chain A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	3.37	3.69	30.00	-26.31
Mid	5785	2.93	3.25	30.00	-26.75
High	5825	2.22	2.54	30.00	-27.46

Chain B PSD Results

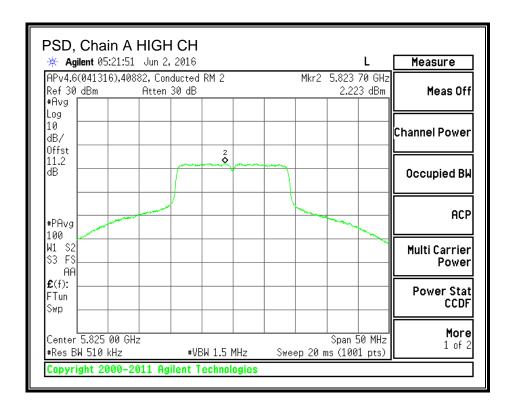
Channel	Frequency	Chain B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	2.12	2.44	30.00	-27.56
Mid	5785	2.18	2.50	30.00	-27.50
High	5825	1.77	2.09	30.00	-27.91

PSD, Chain A

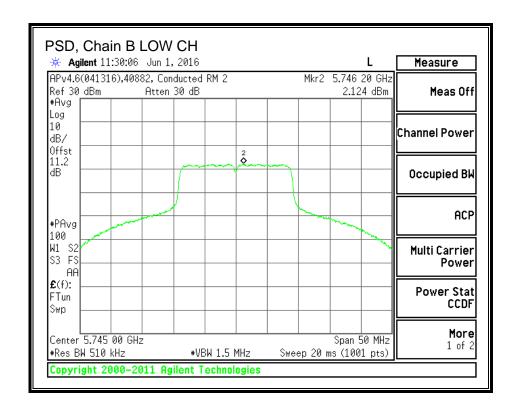


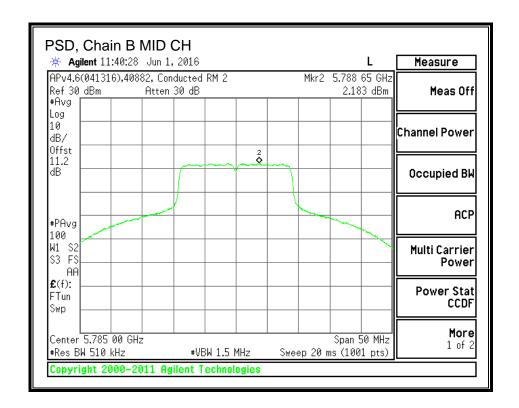


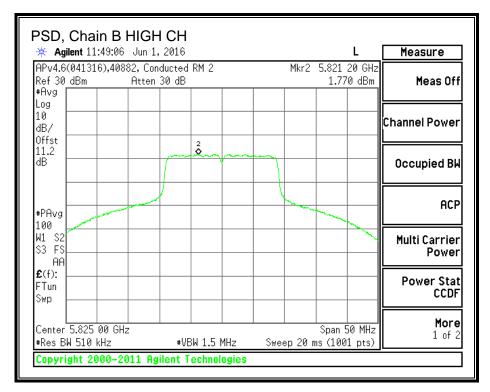
DATE: 2016-06-07



PSD, Chain B







9.3.4. STRADDLE CHANNEL OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42.

DATE: 2016-06-07

RESULTS

STRADDLE CHANNEL 144 - 802.11n 20 MHz SISO RESULTS

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Directional	Power	PSD
		Gain	Limit	Limit
	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	3.42	30.00	30.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd Power & PSD
--------------------	------	------------------------------------------------

Chain A Output Power Results

Channel	Frequency	Chain A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	10.65	10.97	30.00	-19.03

Chain A PSD Results

Channel	Frequency	Chain A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	2.78	3.10	30.00	-26.90

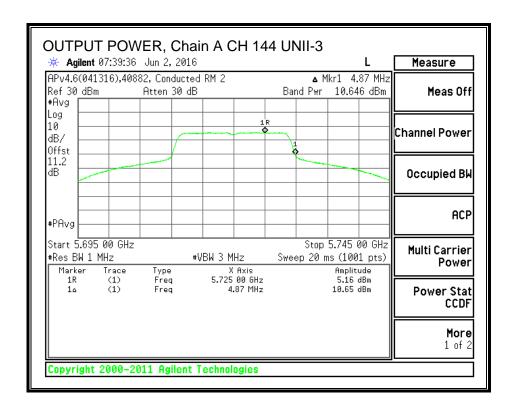
Chain B Output Power Results

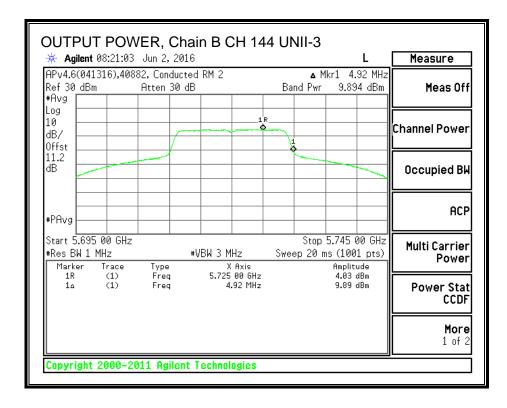
Onam B	Onam B Catput i Ower Results							
Channel	Frequency	Chain B	Total	Power	Power			
		Meas	Corr'd	Limit	Margin			
		Power	Power					
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)			
144	5720	9.89	10.21	30.00	-19.79			

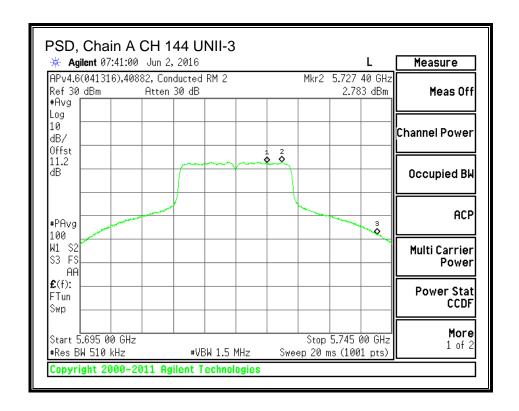
Chain B PSD Results

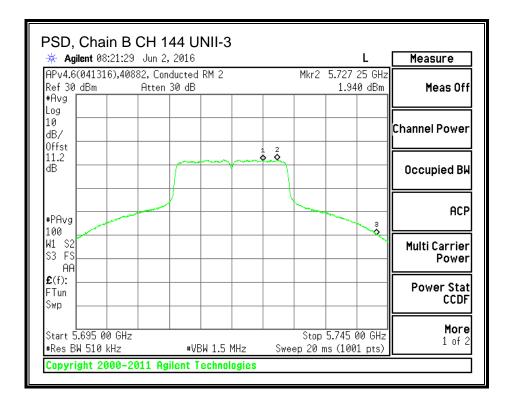
Channel	Frequency	Chain B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	1.94	2.26	30.00	-27.74

DATE: 2016-06-07









REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

9.4. 802.11n HT40 MIMO MODE IN THE 5.8 GHz BAND

9.4.1. 26 dB BANDWIDTH

LIMITS

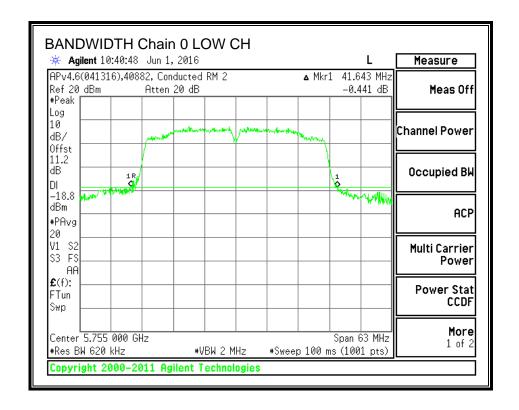
None; for reporting purposes only.

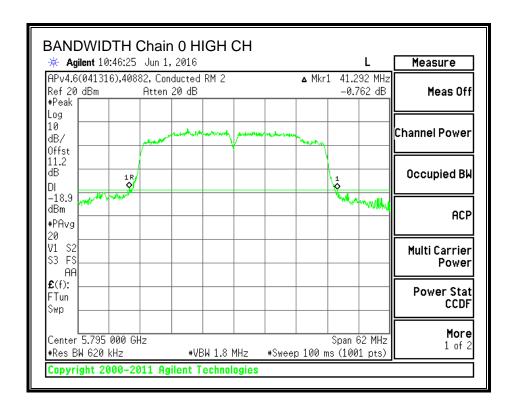
RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5755	41.64	41.90
High	5795	41.29	42.71
142	5710	43.10	42.56

DATE: 2016-06-07

26 dB BANDWIDTH, Chain 0



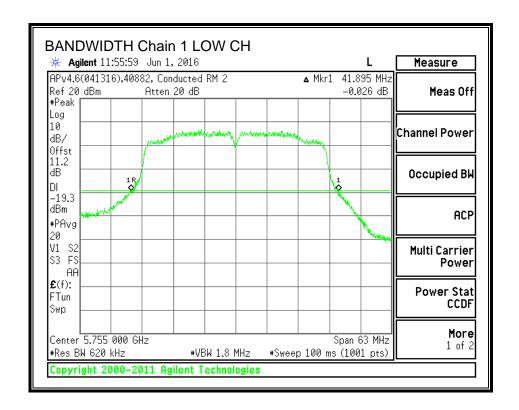


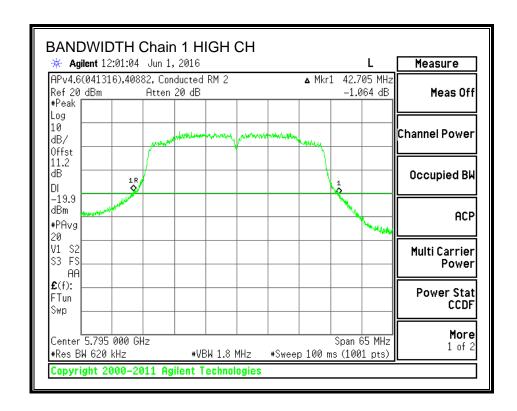
DATE: 2016-06-07

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DATE: 2016-06-07

26 dB BANDWIDTH, Chain 1





DATE: 2016-06-07

IC: 11929A-7260H

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9.4.1. 99% BANDWIDTH

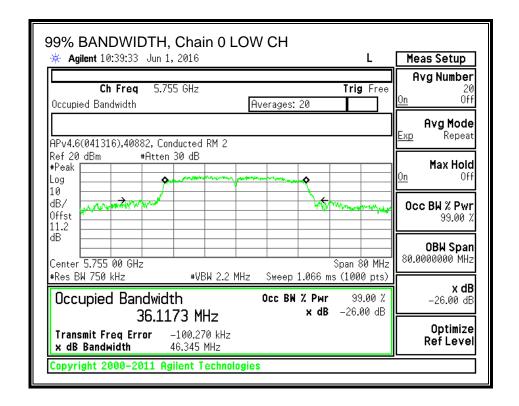
LIMITS

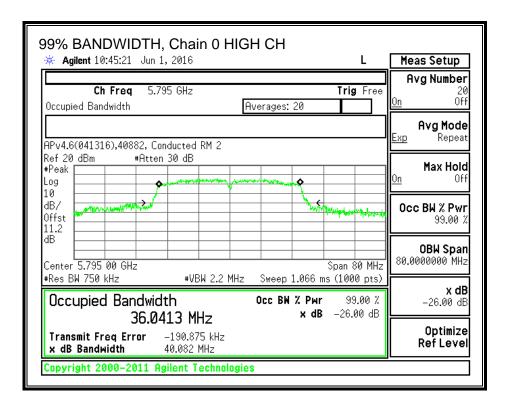
None; for reporting purposes only.

RESULTS

Channel Frequence		99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5755	36.1173	35.9162
High	5795	36.0413	35.9469
142	5710	35.9502	36.0993

99% BANDWIDTH, Chain 0





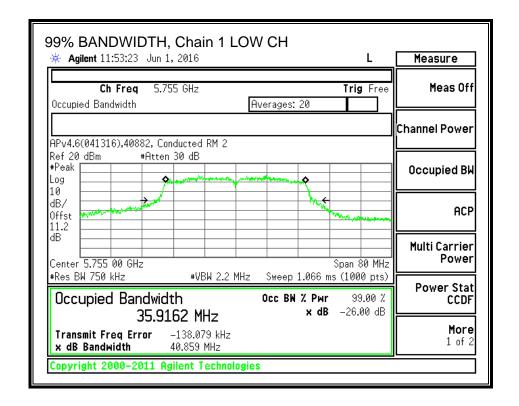
DATE: 2016-06-07

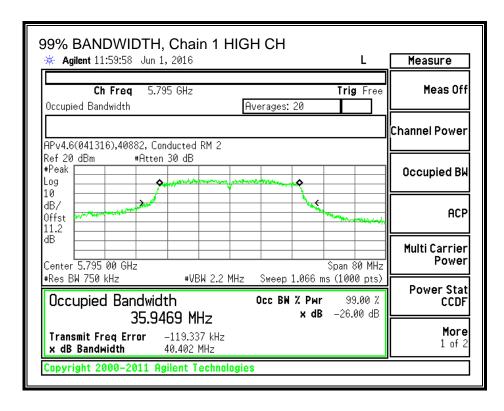
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99% BANDWIDTH, Chain 1





DATE: 2016-06-07

IC: 11929A-7260H

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DATE: 2016-06-07

9.4.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	3.42	30.00
High	5795	3.42	30.00

Duty Cycle CF (dB) 0.24	Included in Calculations of Corr'd Power	
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Output Power Results

Channel	Frequency	Chain A	Chain B	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5755	16.66	15.28	19.27	30.00	-10.73
High	5795	15.63	15.47	18.80	30.00	-11.20

9.4.3. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

RESULTS

Antenna Gain and Limit

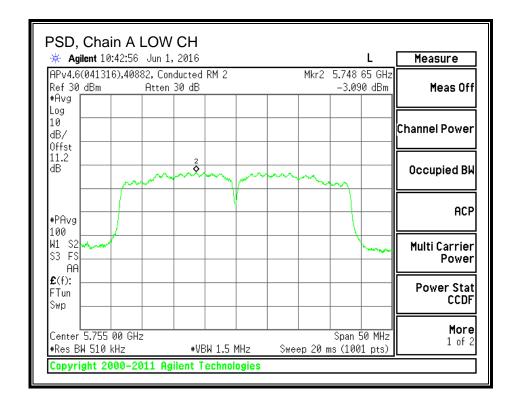
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	3.42	30.00
High	5795	3.42	30.00

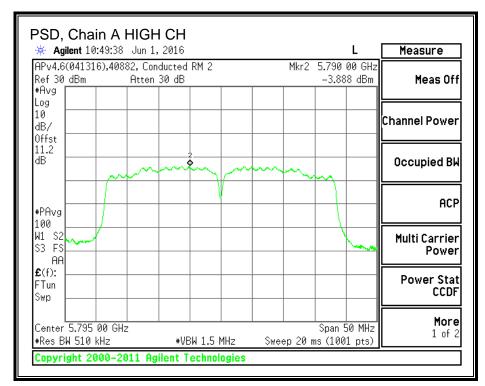
Duty Cycle CF (dB)	0.24	Included in Calculations of Corr'd PSD

PSD Results

Channel	Frequency	Chain A	Chain B	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5755	-3.09	-4.57	-0.52	30.00	-30.52

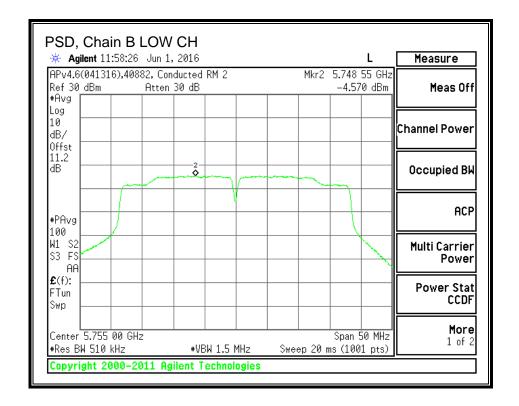
PSD, Chain A

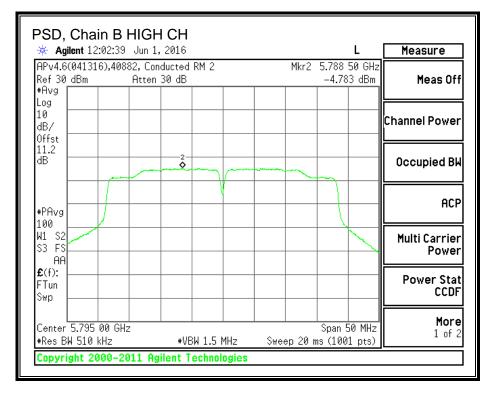




DATE: 2016-06-07

PSD, Chain B





DATE: 2016-06-07

9.4.4. STRADDLE CHANNEL OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

RESULTS

STRADDLE CHANNEL 142 – 802.11n HT40 MIMO RESULTS

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		for Power	for PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
142	5710	3.42	3.42	30.00	30.00

Duty Cycle CF (dB) 0.24 Included in Calculations of Corr'd Pow	wer & PSD
----------------------------------------------------------------	-----------

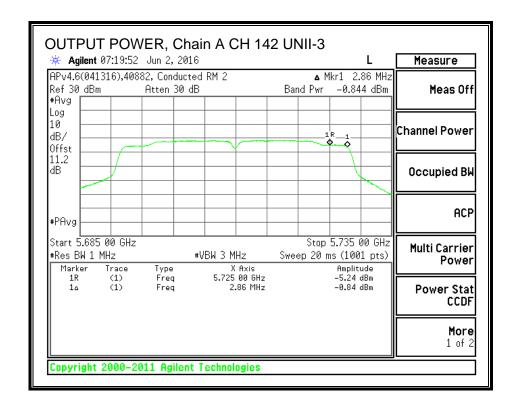
Output Power Results

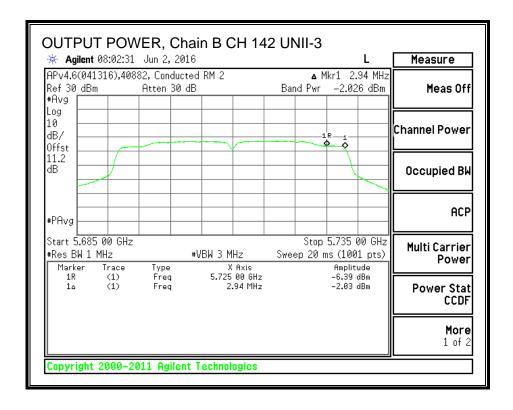
Channel	Frequency	Chain A	Chain B	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-0.84	-2.03	1.86	30.00	-28.14

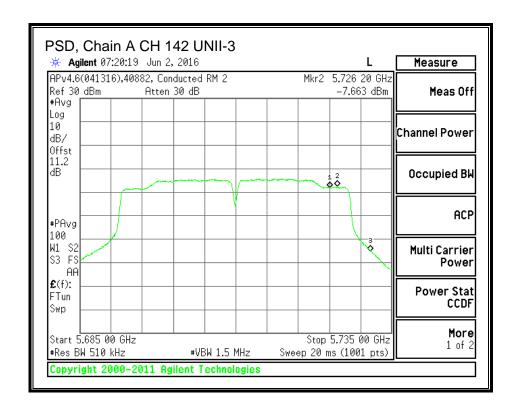
PSD Results

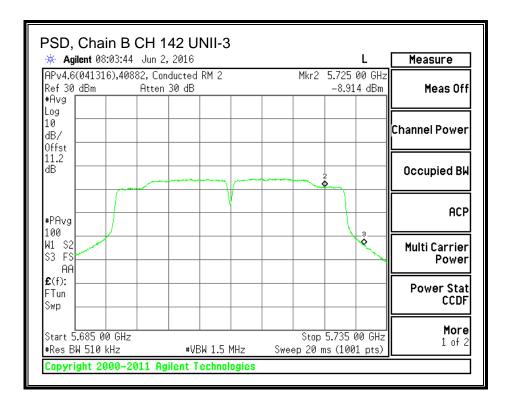
Channel	Frequency	Chain A	Chain B	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
142	5710	-7.66	-8.91	-4.99	30.00	-34.99

DATE: 2016-06-07









9.5. 802.11ac VHT80 MIMO MODE IN THE 5.8 GHz BAND

9.5.1. 26 dB BANDWIDTH

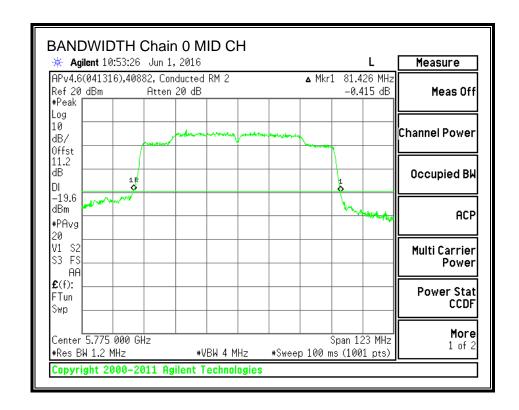
LIMITS

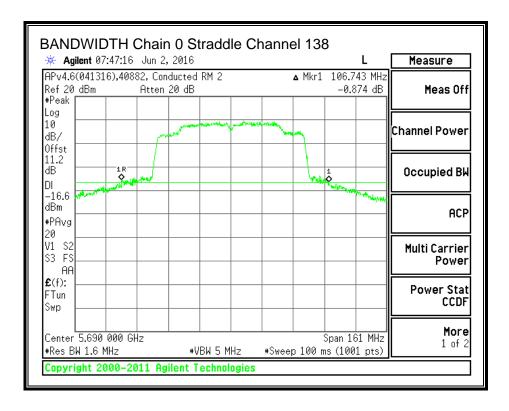
None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5775	81.43	81.55
138	5690	106.74	106.40

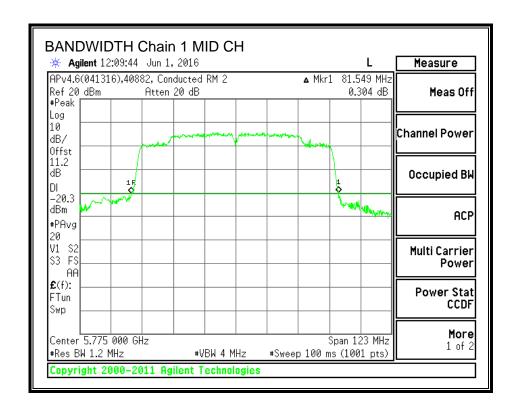
26 dB BANDWIDTH, Chain 0

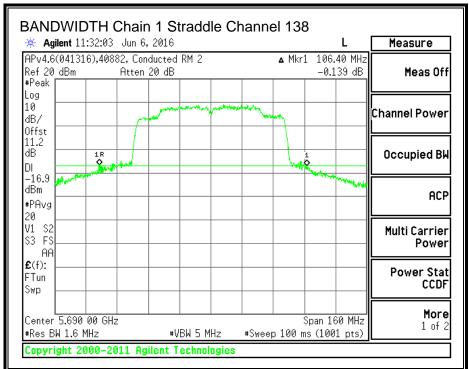




DATE: 2016-06-07

26 dB BANDWIDTH, Chain 1





DATE: 2016-06-07

9.5.1. 99% BANDWIDTH

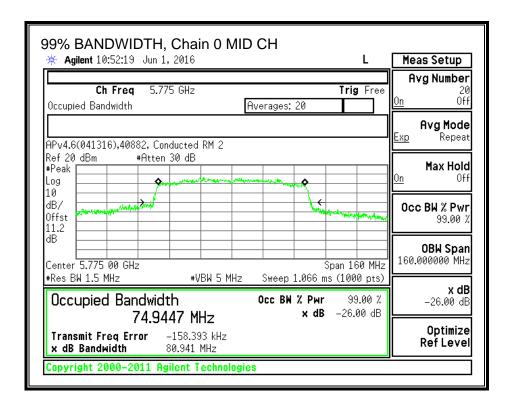
LIMITS

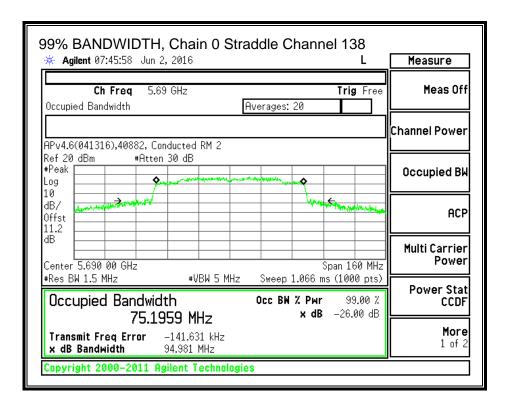
None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5775	74.9447	75.1182
138	5690	75.1959	75.0387

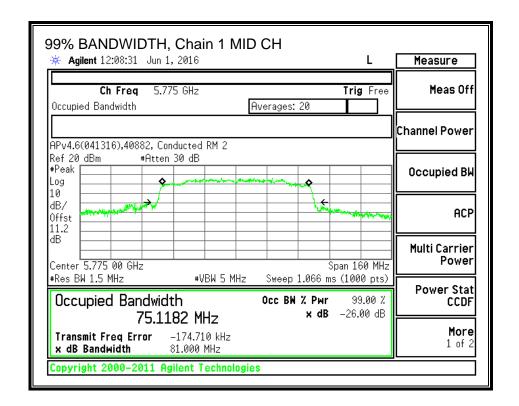
99% BANDWIDTH, Chain 0

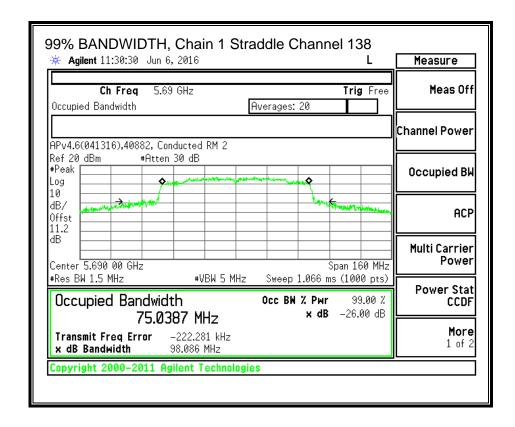




DATE: 2016-06-07 IC: 11929A-7260H

99% BANDWIDTH, Chain 1





DATE: 2016-06-07

IC: 11929A-7260H

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REPORT NO: R11308192-E1 FCC ID: 2AB5I-7260H

9.5.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

FORM NO: 03-EM-F00858

DATE: 2016-06-07

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Mid	5775	3.42	30.00

Duty Cycle CF (dB)	1.44	Included in Calculations of Corr'd Power
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Output Power Results

Channel	Frequency	Chain A	Chain B	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5775	15.39	13.25	18.90	30.00	-11.10

9.5.3. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42 dBi.

REPORT NO: R11308192-E1 DATE: 2016-06-07 IC: 11929A-7260H FCC ID: 2AB5I-7260H

RESULTS

Antenna Gain and Limit

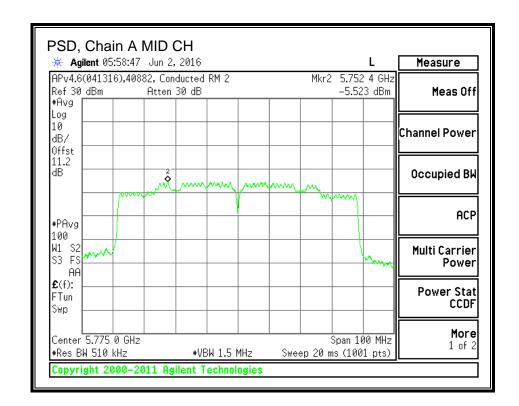
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Mid	5755	3.42	30.00

Duty Cycle CF (dB)	1.44	Included in Calculations of Corr'd PSD
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PSD Results

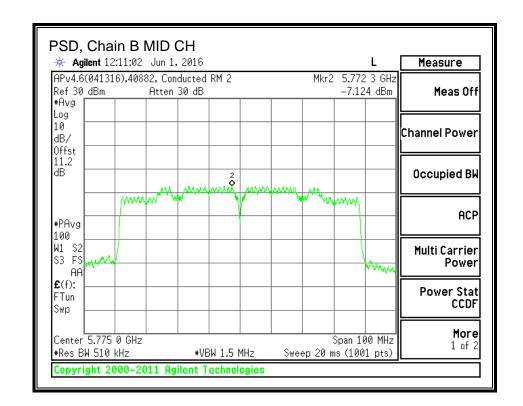
	Channel	Frequency	Chain A	Chain B	Total	PSD	PSD
ı			Meas	Meas	Corr'd	Limit	Margin
ı			PSD	PSD	PSD		
ı		(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
ſ	Mid	5755	-5.52	-7.12	-1.80	30.00	-31.80

PSD, Chain A



DATE: 2016-06-07

PSD, Chain B



9.5.4. STRADDLE CHANNEL OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

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

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, which is 3.42.

STRADDLE CHANNEL 138 - 802.11ac VHT80 MIMO RESULTS

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		for Power for PSD			
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
138	5690	3.42	3.42	30.00	30.00

Duty Cycle CF (dB) 1.4	Included in Calculations of Corr'd Power &	PSD
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Output Power Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
138	5690	-3.39	-3.77	0.88	30.00	-29.12

PSD Results

Channel	Frequency	Chain 0	Chain 1	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
138	5690	-9.97	-10.05	-5.56	30.00	-35.56

