FCC Test Report
(Class II Permissive Change)

Product Name	INTEL DUAL BAND WIRELESS–AC 7265
Model No	7265NGW
FCC ID	MSQ7265NG

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	Sep. 26, 2015
Issued Date	Dec. 29, 2015
Report No.	15A0002R-RFUSP06V00
Report Version	V1.0

Testing Laboratory
3023

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
This report must not be used to claim product endorsement by TAF or any agency of the government.
The test report shall not be reproduced without the written approval of QuieTek Corporation.

Test Report

Issued Date: Dec. 29, 2015
Report No.: 15A0002R-RFUSP06V00

Product Name	INTEL DUAL BAND WIRELESS–AC 7265
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	Intel Mobile Communications
Model No.	7265NGW
FCC ID.	MSQ7265NG
EUT Rated Voltage	DC 3.3V (via Mini-PCI Express slot)
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2013 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 789033 D01 General UNII Test Procedures v01r04
Test Result	Complied

Documented By : Leven Huang

(Senior Adm. Specialist / Leven Huang)

Tested By : Nova chu

(Engineer /Nova Chu)

Approved By :

(Director / Vincent Lin)

TABLE OF CONTENTS

Description Page

1. GENERAL INFORMATION....4

1.1. EUT Description....4
1.2. Operational Description....7
1.3. Tested System Datails....8
1.4. Configuration of tested System....8
1.5. EUT Exercise Software....8
1.6. Test Facility....9

2. Maximun conducted output power....10

2.1. Test Equipment....10
2.2. Test Setup....11
2.3. Limits....12
2.4. Test Procedur....12
2.5. Uncertainty....12
2.6. Test Result of Maximum conducted output power....13

3. Radiated Emission....123

3.1. Test Equipment....123
3.2. Test Setup....124
3.3. Limits....125
3.4. Test Procedure....126
3.5. Uncertainty....126
3.6. Test Result of Radiated Emission....127

4. Band Edge....253

4.1. Test Equipment....253
4.2. Test Setup....254
4.3. Limits....255
4.4. Test Procedure....255
4.5. Uncertainty....255
4.6. Test Result of Band Edge....256

5. EMI Reduction Method During Compliance Testing....341

Attachment 1: EUT Test Photographs
Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	INTEL DUAL BAND WIRELESS–AC 7265
Trade Name	Intel
FCC ID.	MSQ7265NG
Model No.	7265NGW
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz 802.11ac-20MHz: 5720, 802.11ac-40MHz: 5710 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz
Number of Channels	802.11a/n-20MHz: 19; 802.11n-40MHz: 9 802.11ac-20MHz: 1, 802.11ac-40MHz: 1, 802.11ac-80MHz: 5
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7Mbps
Channel Control	Auto
Type of Modulation	802.11a/n:OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna type	PIFA Antenna
Antenna Gain	Refer to the table “Antenna List”
Power Adapter	MFR: ASUS (PI), M/N: AD883J20 Input: AC 100-240V, 50/60Hz, 1.0A Output: DC 19V, 2.37A Cable out: Non-Shielded, 2.25m.
Test Platform.	Brand Name: ASUS, M/N: TP501U, J501U, R518U

Antenna List

No.	Manufacturer	Part No.	Antenna type	Peak Gain
1	INPAQ	WA-P-LB-02-300 (Main) WA-P-LB-01-141 (Aux)	PIFA Antenna	2.45dBi for 5.15~5.25GHz 2.45dBi for 5.25~5.35GHz 3.80dBi for 5.47~5.725GHz 1.55dBi for 5.725~5.850GHz
2	Luxshare	LA05RF873-2H (Main) LA05RF873-1H (Aux)	PIFA Antenna	2.39dBi for 5.15~5.25GHz 2.39dBi for 5.25~5.35GHz 2.57dBi for 5.47~5.725GHz 1.21dBi for 5.725~5.850GHz

Note: 1. The antenna of EUT is conform to FCC 15.203

2. Only the higher gain antenna was tested and recorded in this report.

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz		

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz						

802.11ac-20MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 144:	5720 MHz

802.11ac-40MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 142:	5710 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 42:	5210 MHz	Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz
Channel 138:	5690 MHz						

Note:

1. This device is a INTEL DUAL BAND WIRELESS–AC 7265 with a built- in WLAN、Bluetooth transceiver, this report for WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
6. This is to request a Class II permissive change for FCC ID: MSQ7265NG, originally granted on 12/15/2015.

The major change filed under this application is:

Change #1: Additional Chassis added, ASUSTeK, model number : TP501U, J501U, R518U notebook/tablet.

All models are lised as below

Brand	Model	Difference
ASUS	TP501U (Main test model)	All models are electrically identical, different model names are for marketing purpose.
	J501U	
	R518U	

#2: Reduce the Output Power through firmware (only reduce 5G Wi-Fi Power, Bluetooth power haven't changes).

#3: Addition two new antennas, the antenna type is the same, the antenna gain is lower than the original application.

Test Mode	Mode 1 SISO A: Transmit (802.11a-6Mbps) Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps) Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps) Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps) Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps) Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) Mode 2 SISO B: Transmit (802.11a-6Mbps) Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) Mode 2 SISO B: Transmit (802.11ac-20BW-7.2Mbps) Mode 2 SISO B: Transmit (802.11ac-40BW-15Mbps) Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) Mode 3 MIMO: Transmit (802.11ac-20BW-14.4Mbps) Mode 3 MIMO: Transmit (802.11ac-40BW-30Mbps) Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

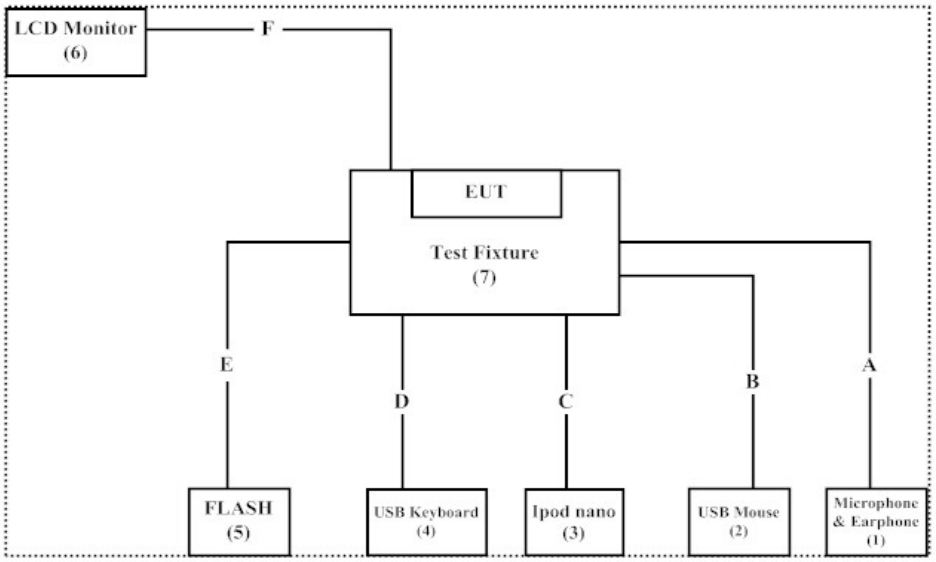
1.3. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Microphone & Earphone	PCHOME	N/A	N/A	N/A
2	USB Mouse	Logitech	M-BE58	HCA30103100	N/A
3	Ipod nano	Apple	A1199	YM706LSCVQ5	N/A
4	USB Keyboard	DELL	SK-8115	MY-0DJ325-71619-6 A3-1912	N/A
5	FLASH	Transcend	JetFlash110	155422-2931	N/A
6	LCD Monitor	ASUS	VS229HA	F4LMQS135395	Non-Shielded, 1.8m
7	Test Fixture	ASUS	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A	Microphone & Earphone Cable	Non-Shielded, 2 m
B	USB Cable	Non-Shielded, 1.8 m
C	USB Cable	Non-Shielded, 1.2 m
D	USB Cable	Non-Shielded, 1.8 m
E	USB Cable	Non-Shielded, 2 m
F	HDMI Cable	Non-Shielded, 1.8 m

1.4. Configuration of tested System



1.5. EUT Exercise Software

(1) Setup the EUT as shown on 1.4

(2) Execute “DRTU V1.7.7 -01483” program on the EUT.

(3) Configure the test mode, the test channel, and the data rate.

(4) Start the continuous transmission.

(5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://www.quietek.com/chinese/about/certificates.aspx?bval=5

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Maximun conducted output power

2.1. Test Equipment

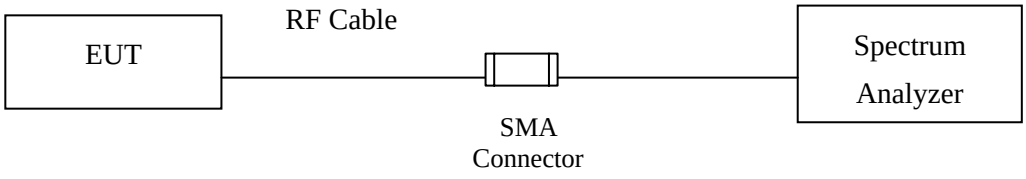
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

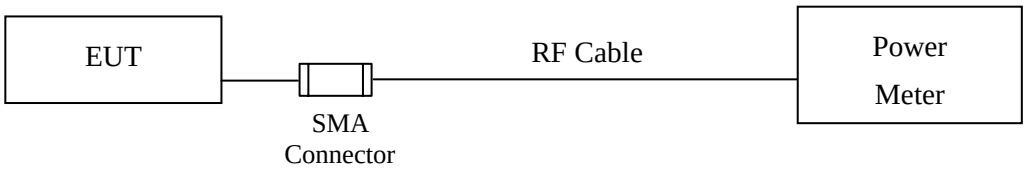
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

2.2. Test Setup

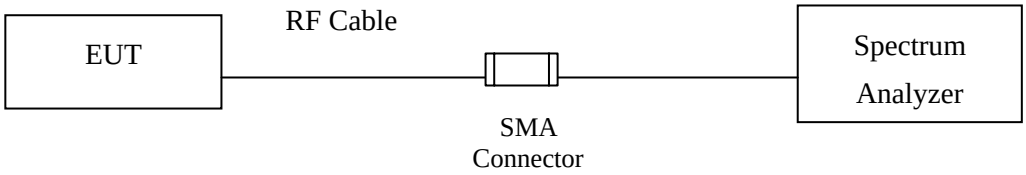
26dBc Occupied Bandwidth



Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



2.3. Limits

(1) For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

(2) For the band 5.25-5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W or 17 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

2.4. Test Procedur

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater than 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW≦40MHz) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)
Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

2.5. Uncertainty

± 1.27 dB

2.6. Test Result of Maximum conducted output power

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	10.69	--	--	--	--	--	--	--	<17dBm
44	5220	11.5	11.48	11.45	11.43	11.41	11.38	11.35	11.32	<17dBm
48	5240	11.46	--	--	--	--	--	--	--	<17dBm
52	5260	11.91	--	--	--	--	--	--	--	<24dBm
60	5300	12.14	12.12	12.1	12.07	12.05	12.02	11.99	11.97	<24dBm
64	5320	12.12	--	--	--	--	--	--	--	<24dBm
100	5500	12	--	--	--	--	--	--	--	<24dBm
120	5600	12.48	12.45	12.43	12.41	12.38	12.36	12.33	12.31	<24dBm
140	5700	12.44	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

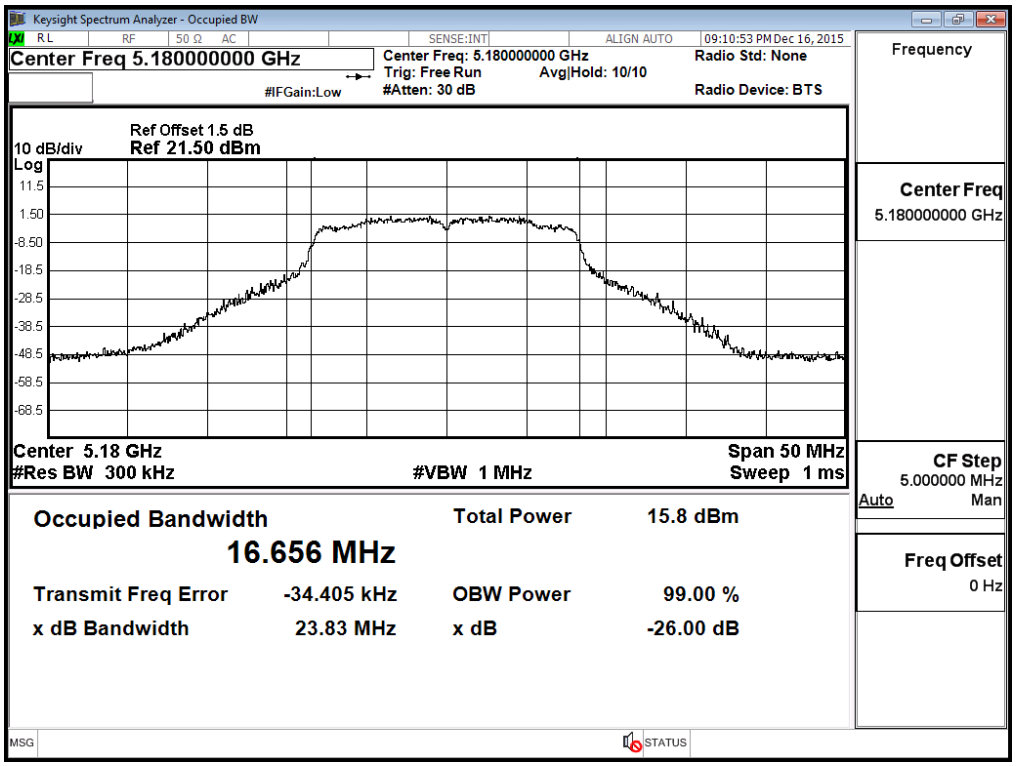
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	16.656	10.69	17	16.22
44	5220	16.603	11.5	17	16.20
48	5240	16.610	11.46	17	16.20
52	5260	16.612	11.91	24	23.20
60	5300	16.641	12.14	24	23.21
64	5320	16.655	12.12	24	23.22
100	5500	16.609	12	24	23.20
120	5600	16.831	12.48	24	23.26
140	5700	16.626	12.44	24	23.21

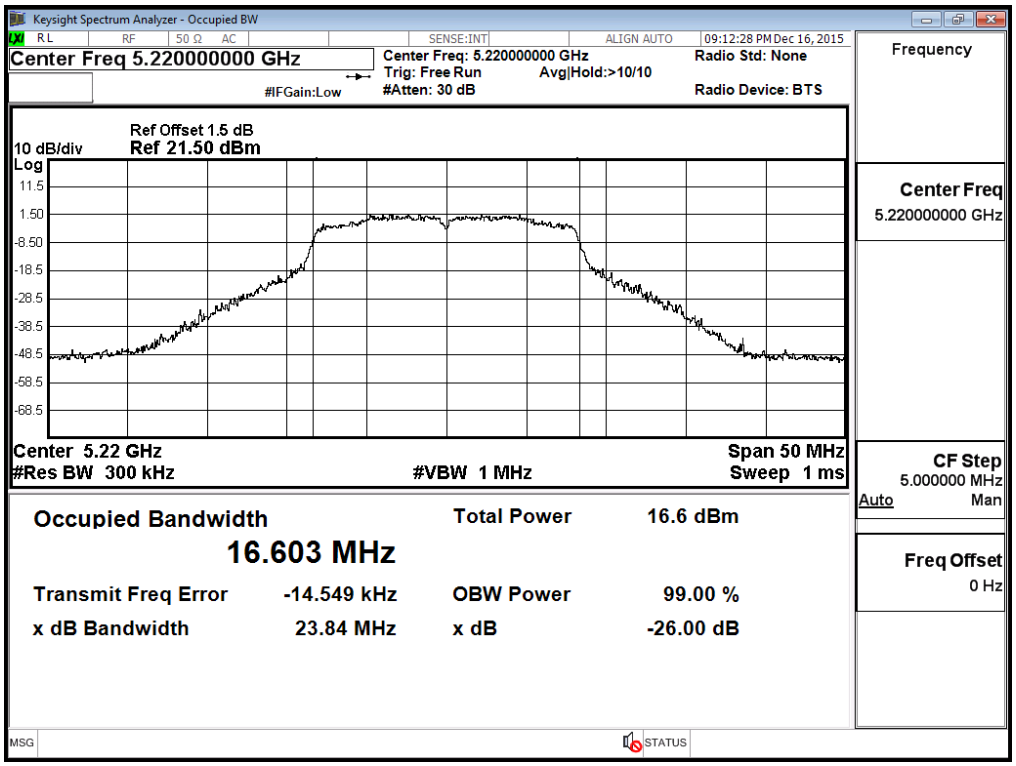
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

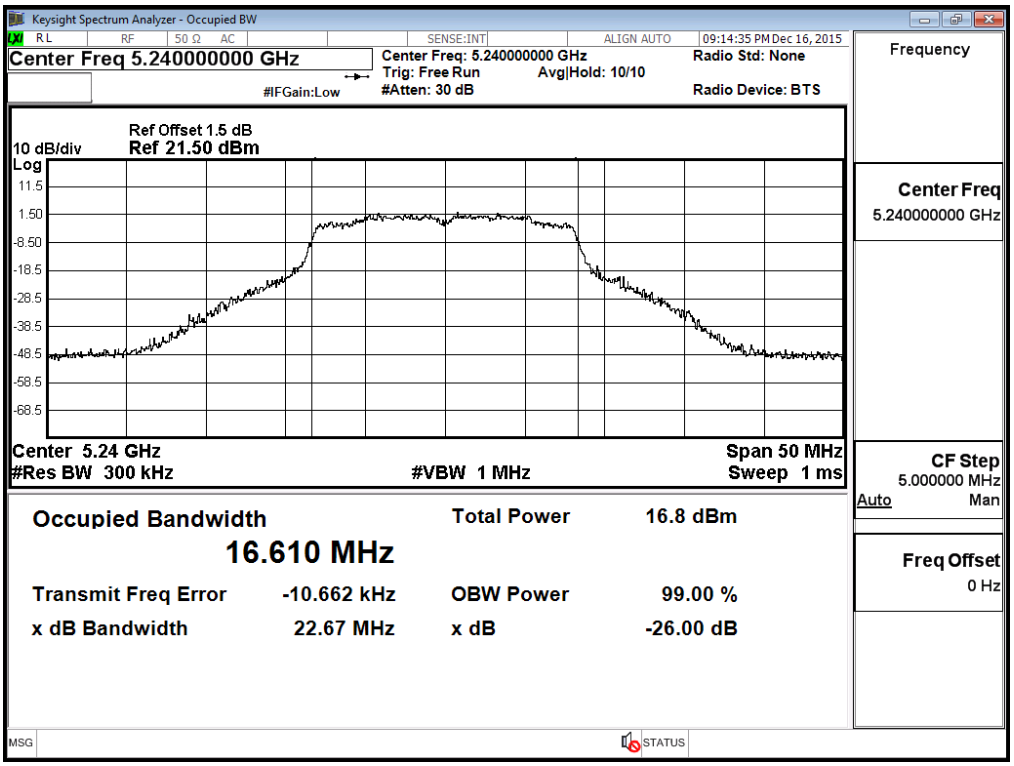
26dBc Occupied Bandwidth:
Channel 36:



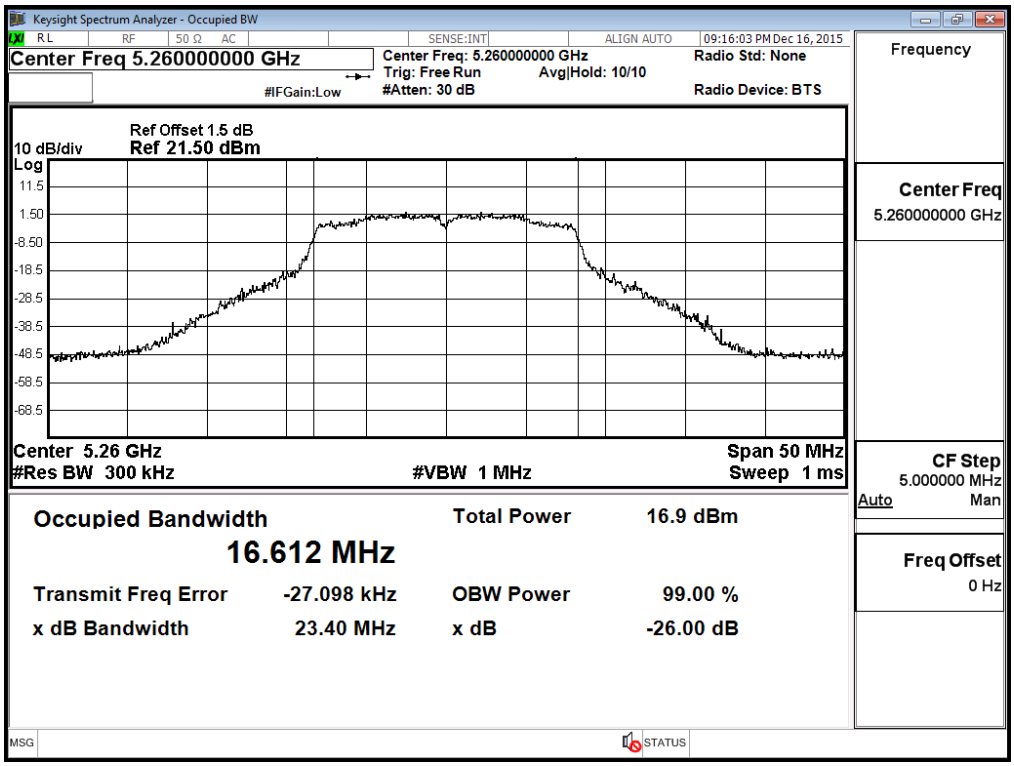
Channel 44:



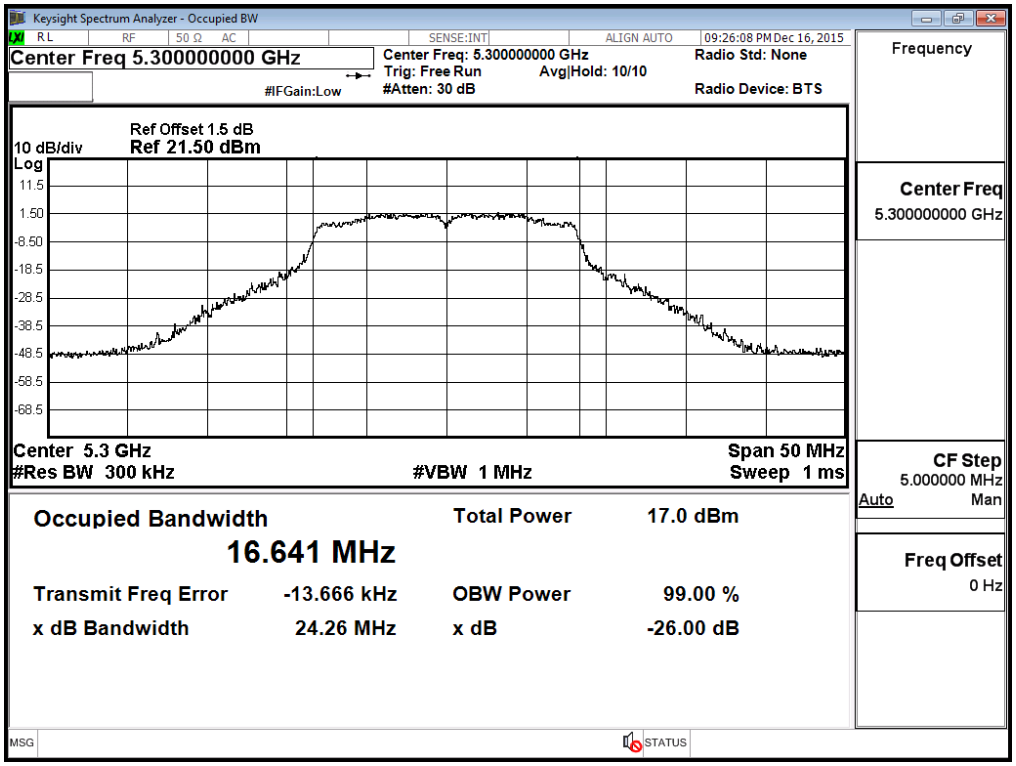
Channel 48:



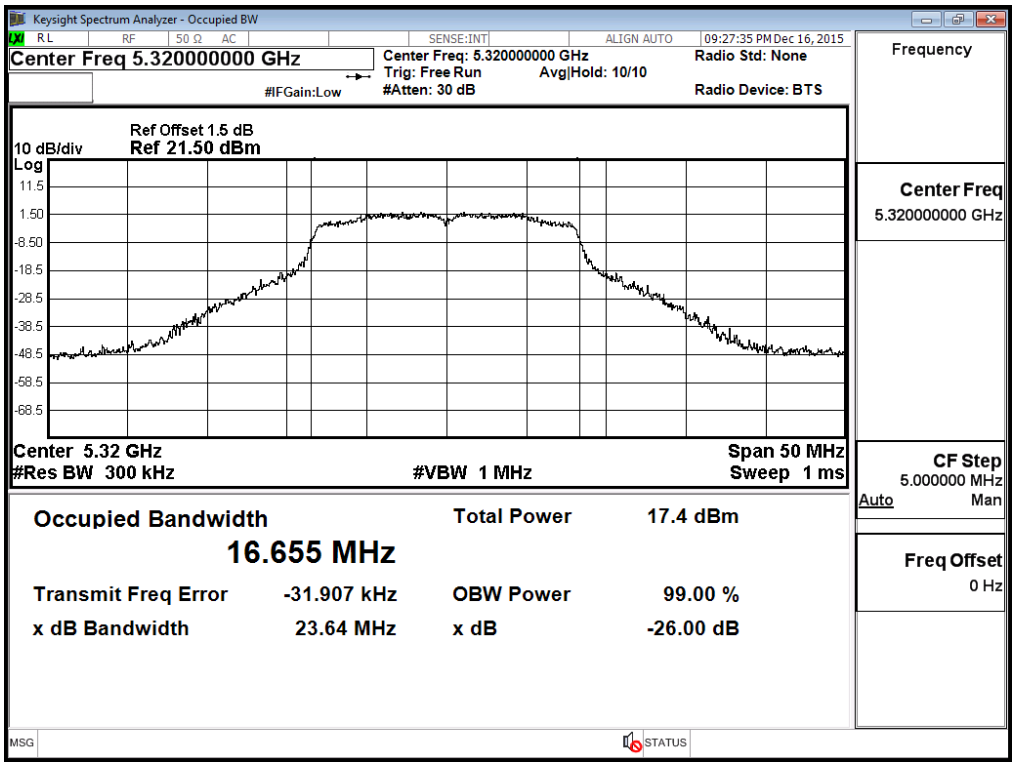
Channel 52:



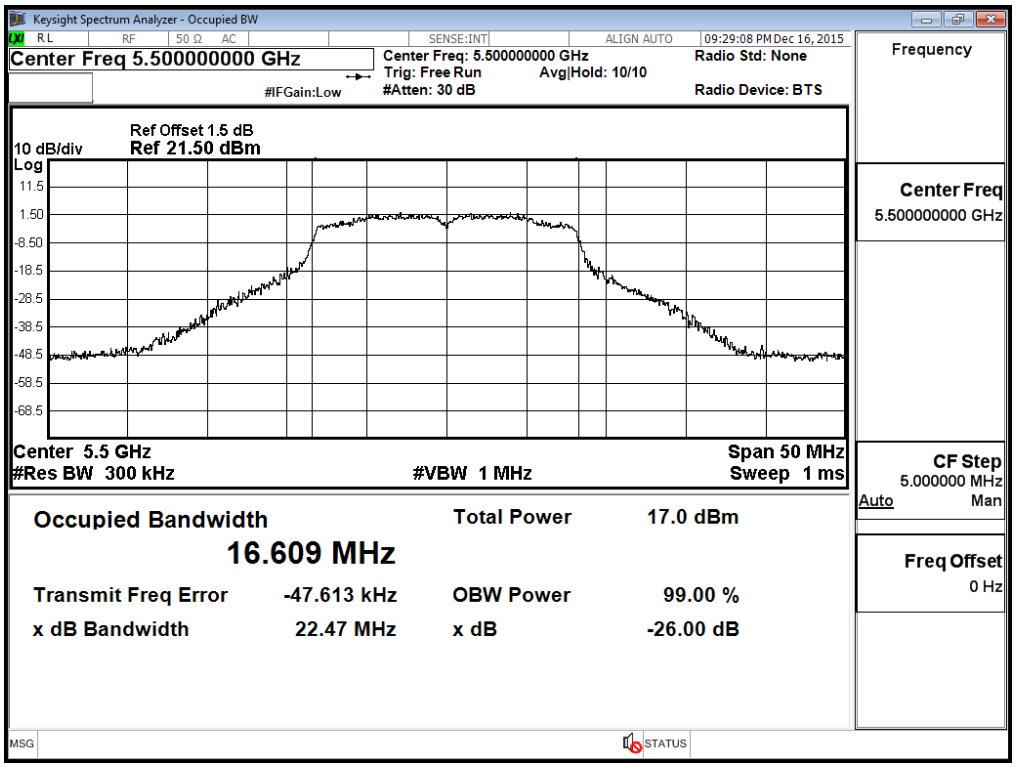
Channel 60:



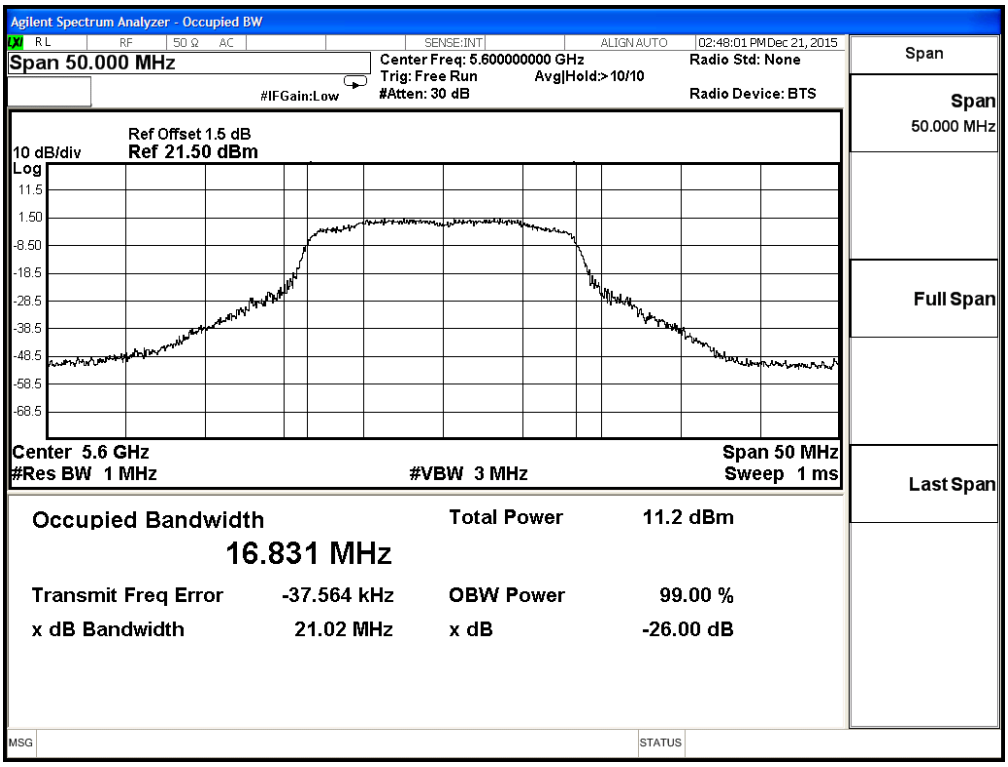
Channel 64:



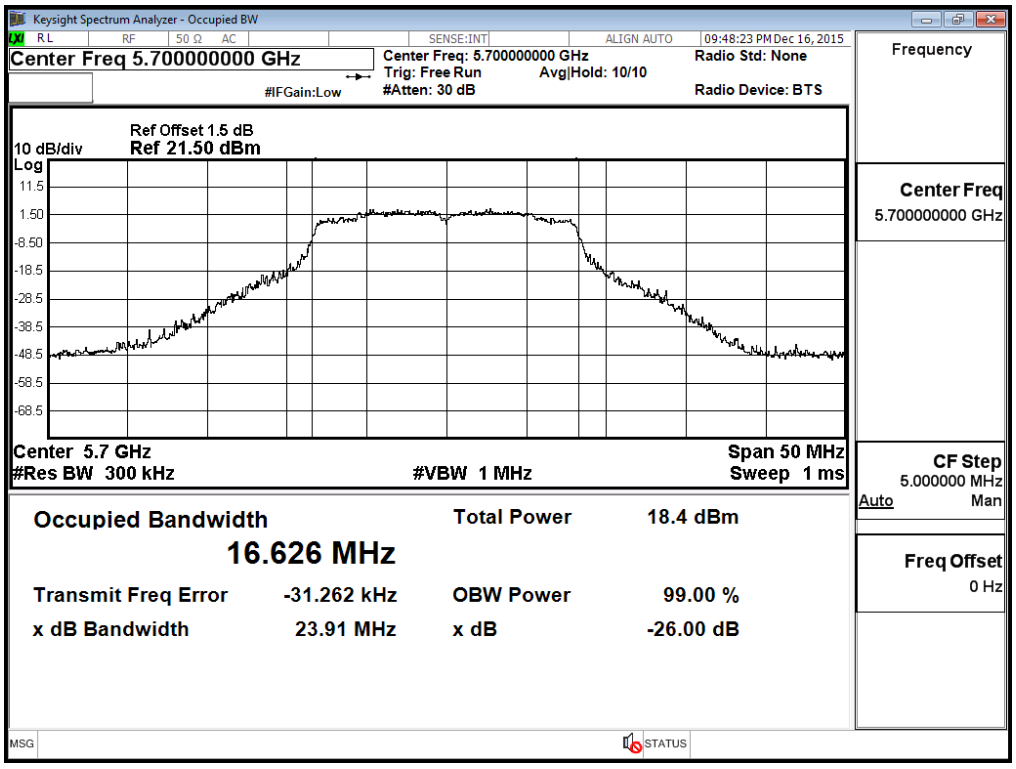
Channel 100:



Channel 120:



Channel 140:


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
09:48:23 PM Dec 16, 2015
Center Freq 5.700000000 GHz
Center Freq: 5.700000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center Freq
5.700000000 GHz
Center 5.7 GHz
#Res BW 300 kHz
#VBW 1 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Occupied Bandwidth
16.626 MHz
Total Power 18.4 dBm
Transmit Freq Error -31.262 kHz
OBW Power 99.00 %
x dB Bandwidth 23.91 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
		Measurement Level (dBm)								
36	5180	10.54	--	--	--	--	--	--	--	<17dBm
44	5220	11.50	11.48	11.45	11.42	11.39	11.37	11.33	11.31	<17dBm
48	5240	11.37	--	--	--	--	--	--	--	<17dBm
52	5260	11.77	--	--	--	--	--	--	--	<24dBm
60	5300	12.41	12.39	12.37	12.34	12.31	12.29	12.26	12.24	<24dBm
64	5320	12.41	--	--	--	--	--	--	--	<24dBm
100	5500	12	--	--	--	--	--	--	--	<24dBm
120	5600	12.19	12.17	12.14	12.11	12.08	12.06	12.03	12.01	<24dBm
140	5700	12.38	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

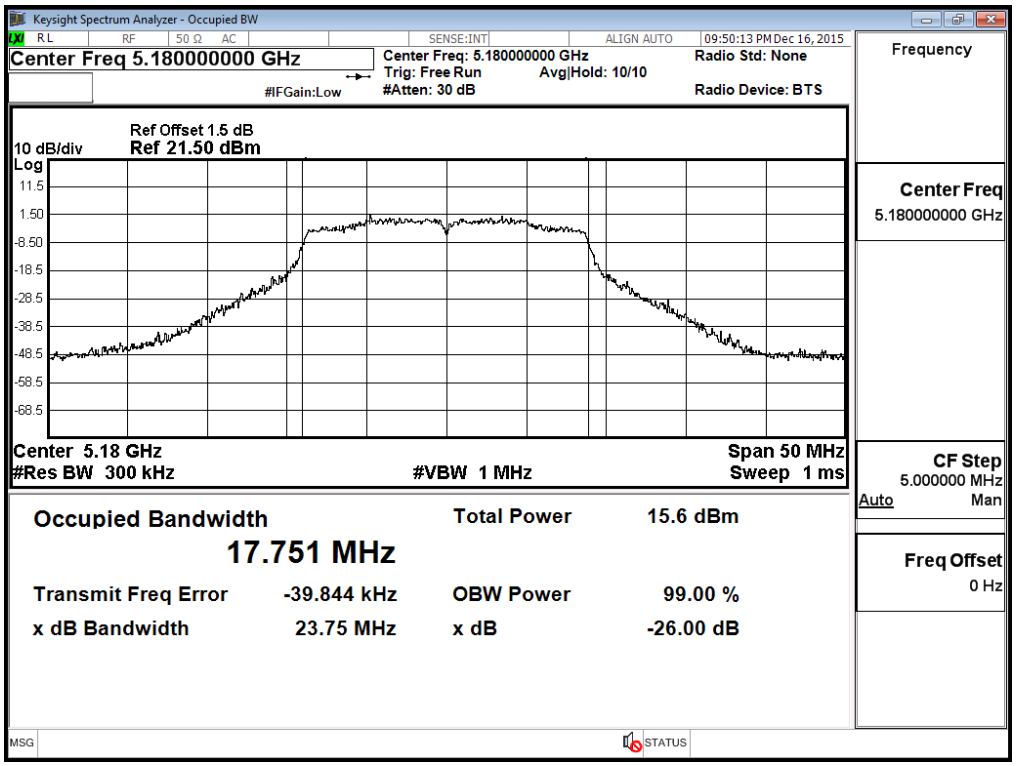
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	17.751	10.54	17	16.49
44	5220	17.745	11.5	17	16.49
48	5240	17.768	11.37	17	16.50
52	5260	17.783	11.77	24	23.50
60	5300	17.758	12.41	24	23.49
64	5320	17.749	12.41	24	23.49
100	5500	17.751	12	24	23.49
120	5600	18.045	12.19	24	23.56
140	5700	17.719	12.38	24	23.48

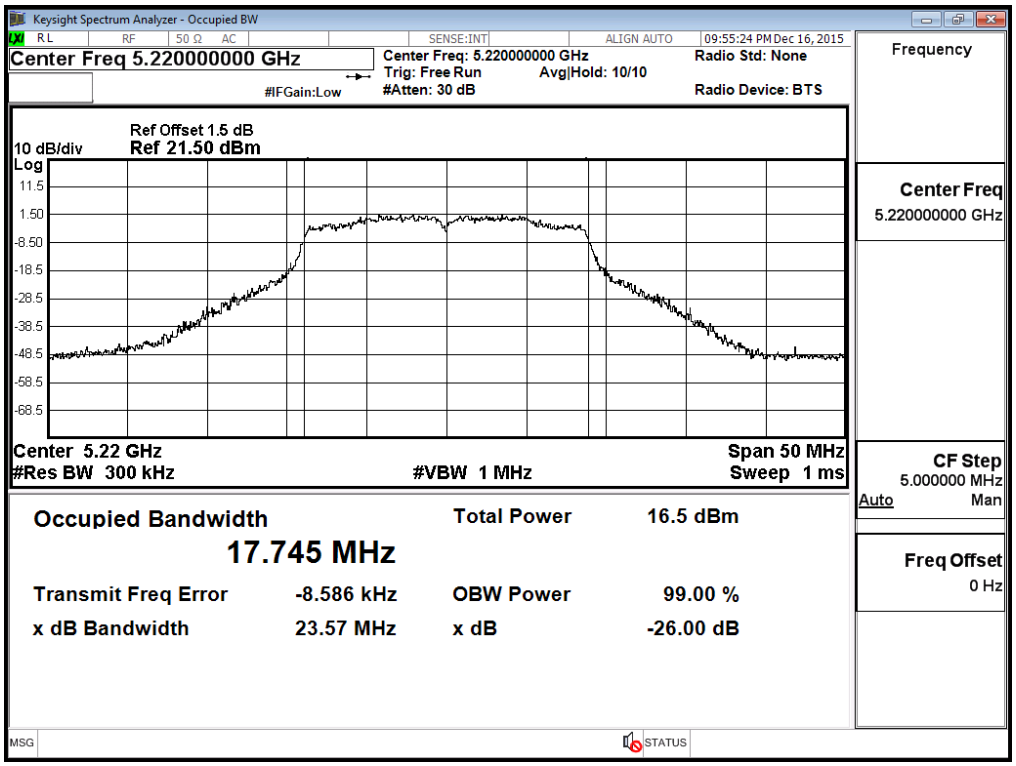
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

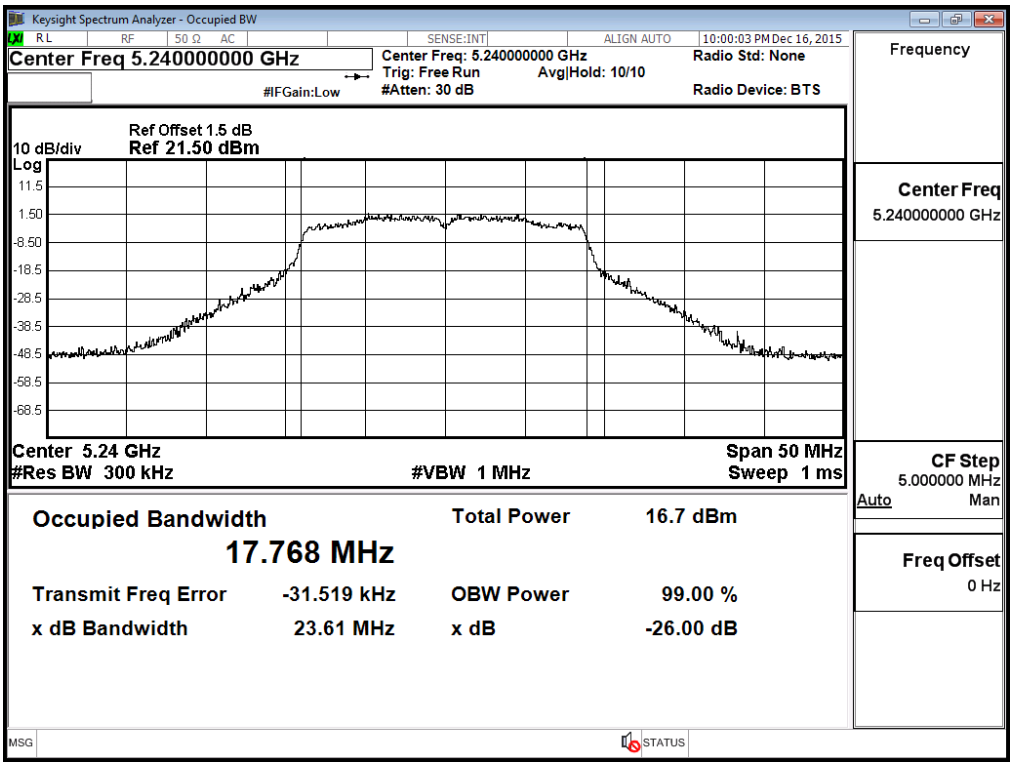
26dBc Occupied Bandwidth:
Channel 36:



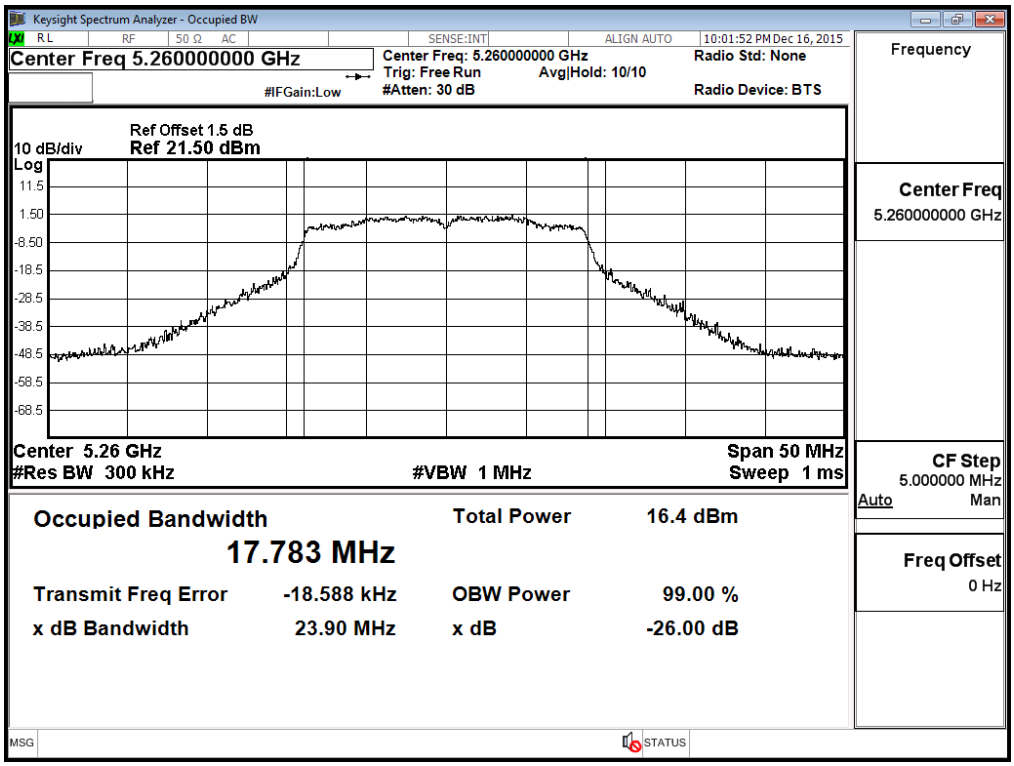
Channel 44:



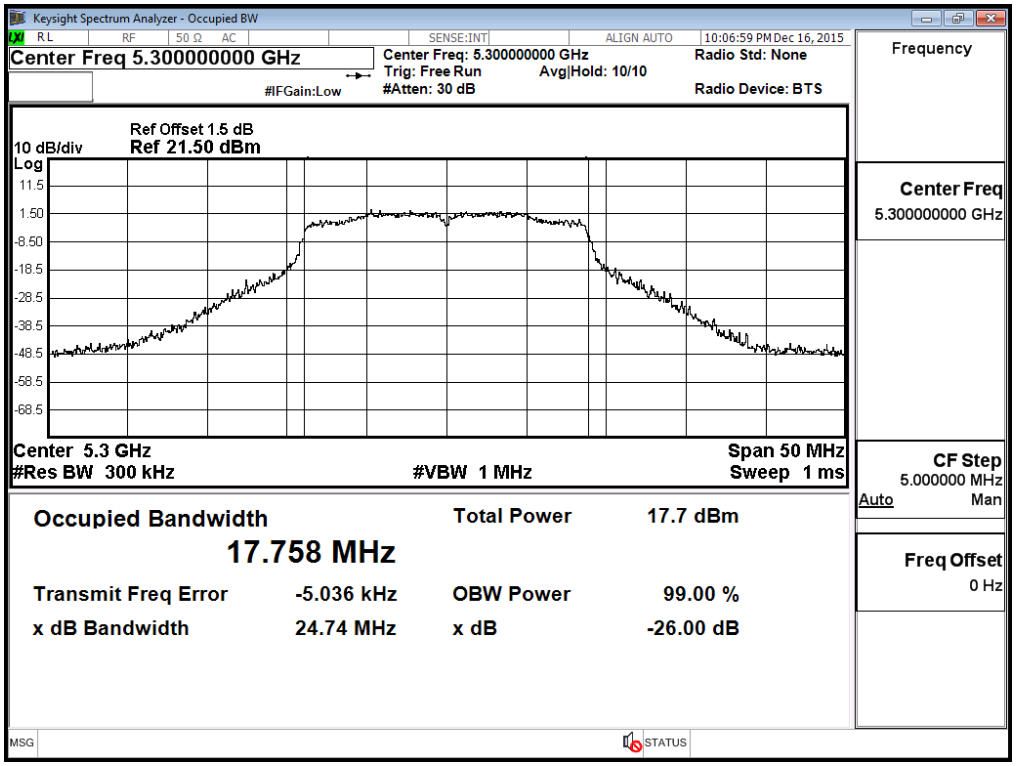
Channel 48:



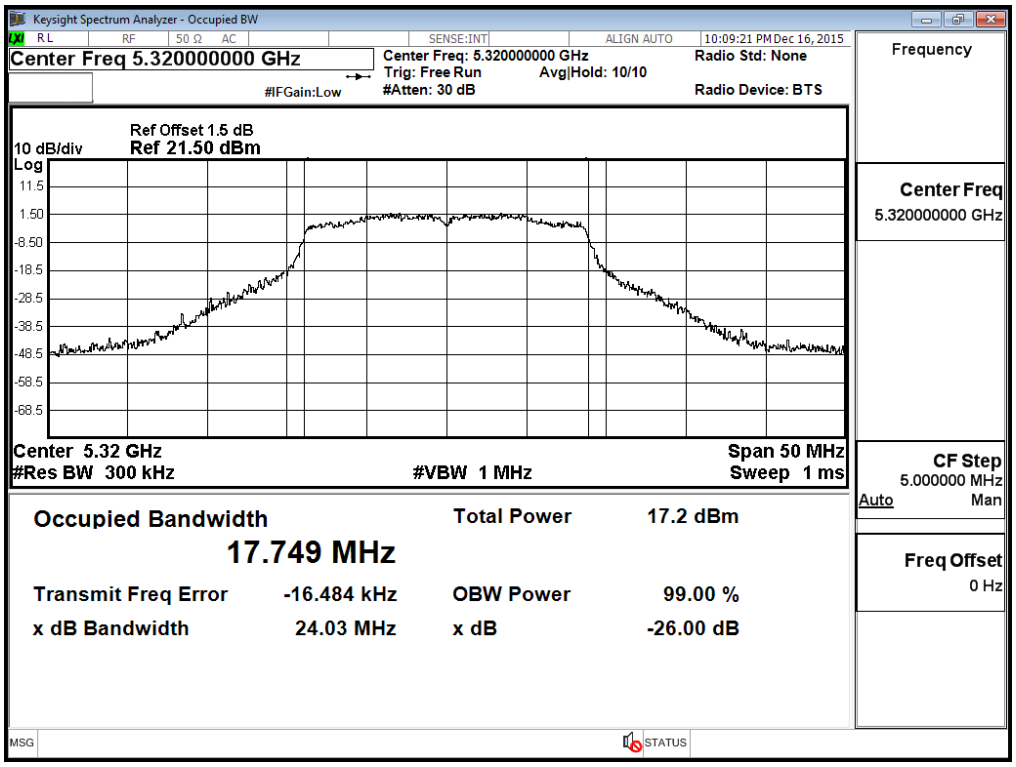
Channel 52:



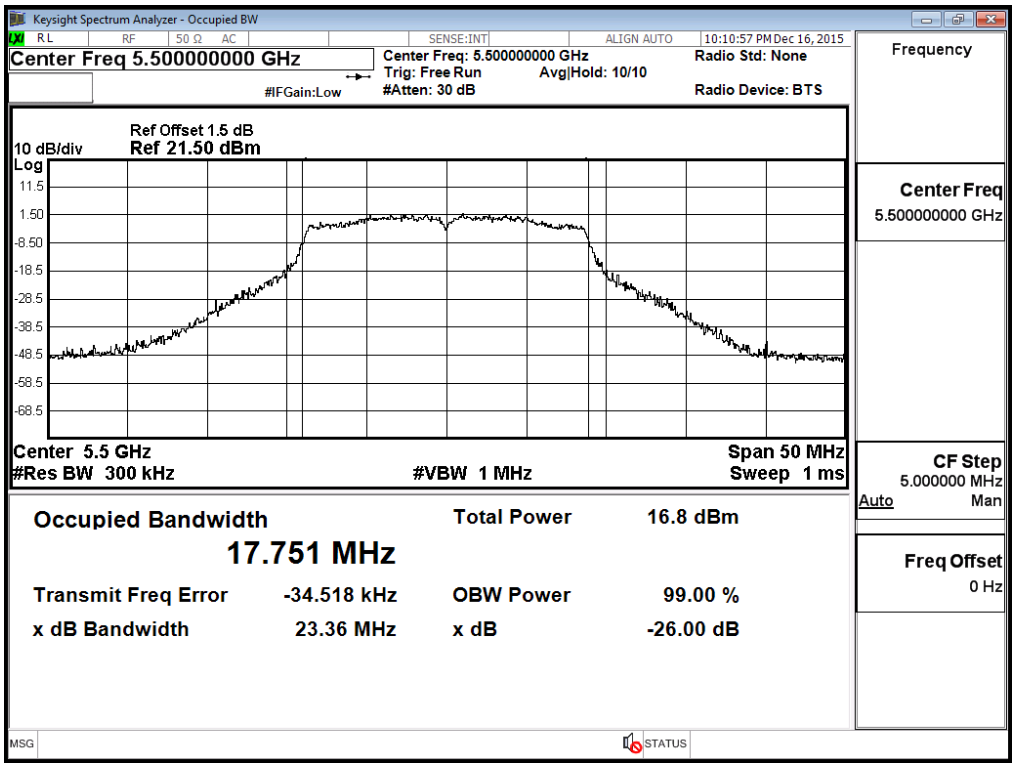
Channel 60:



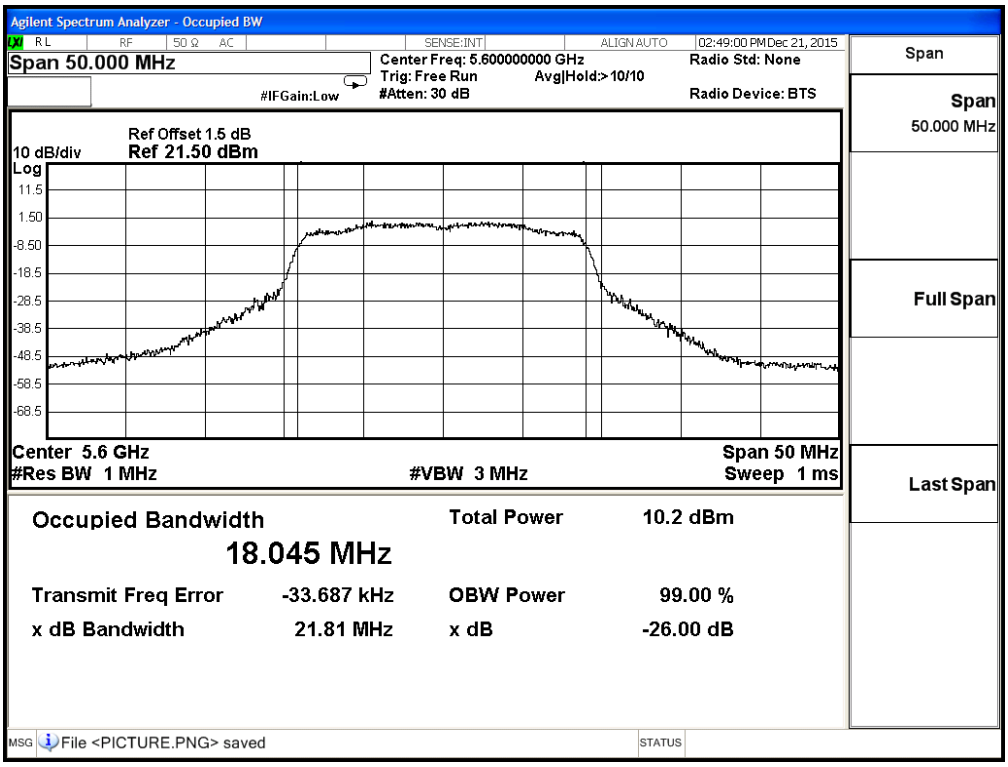
Channel 64:



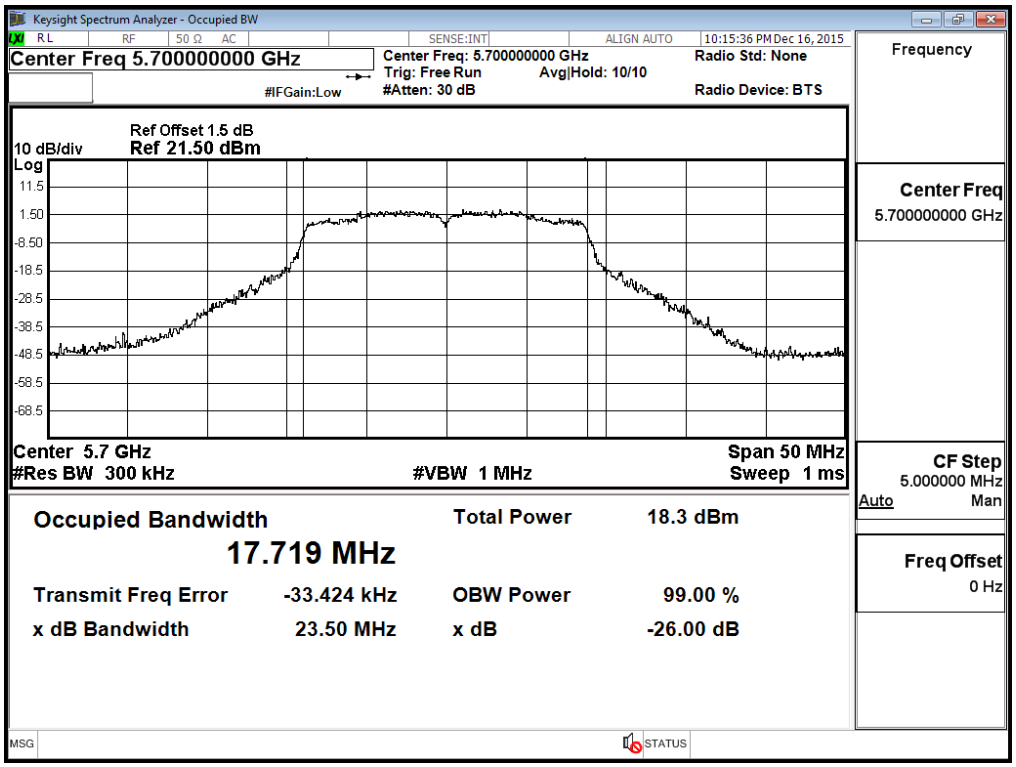
Channel 100:



Channel 120:



Channel 140:


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.700000000 GHz
Center Freq: 5.700000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
Center Freq
5.700000000 GHz
Center 5.7 GHz
#Res BW 300 kHz
#VBW 1 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Occupied Bandwidth
17.719 MHz
Total Power 18.3 dBm
Transmit Freq Error -33.424 kHz
OBW Power 99.00 %
x dB Bandwidth 23.50 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	10.50	10.48	10.45	10.42	10.39	10.37	10.34	10.31	<17dBm
46	5230	11	--	--	--	--	--	--	--	<17dBm
54	5270	11.45	11.42	11.39	11.37	11.35	11.32	11.30	11.28	<24dBm
62	5310	11.98	--	--	--	--	--	--	--	<24dBm
102	5510	11.5	--	--	--	--	--	--	--	<24dBm
118	5590	11.67	11.65	11.62	11.60	11.57	11.55	11.52	11.49	<24dBm
134	5670	12.34	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

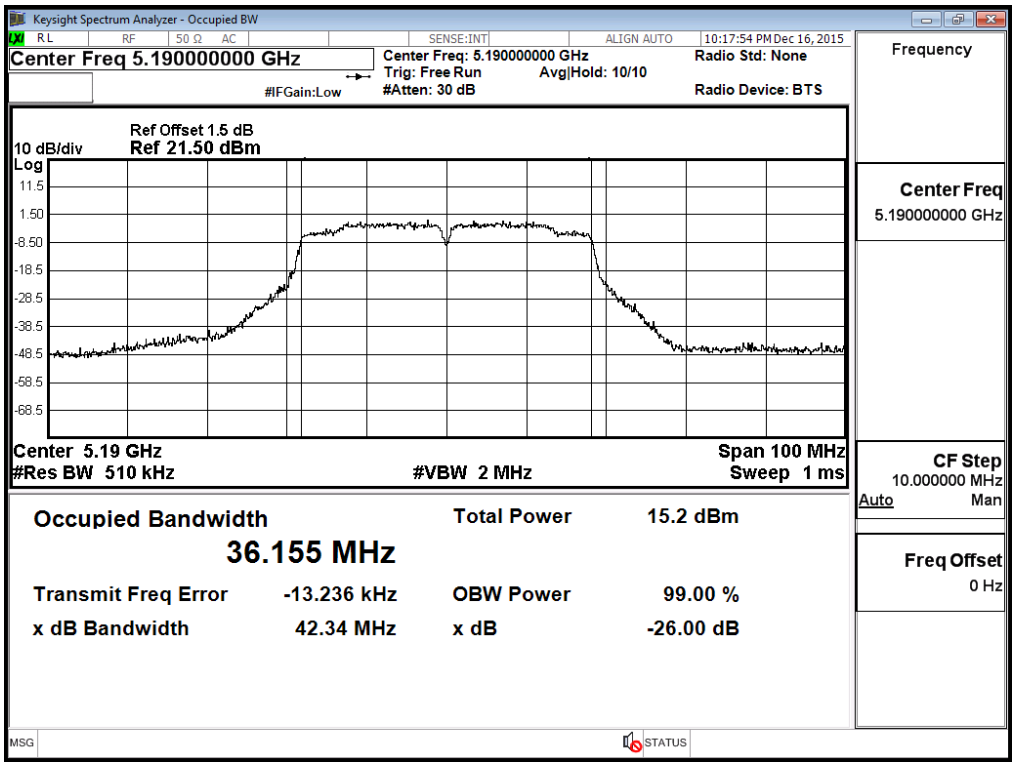
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	36.155	10.5	17	19.58
46	5230	36.099	11	17	19.57
54	5270	36.096	11.45	24	26.57
62	5310	36.089	11.98	24	26.57
102	5510	36.080	11.5	24	26.57
118	5590	36.256	11.67	24	26.59
134	5670	36.137	12.34	24	26.58

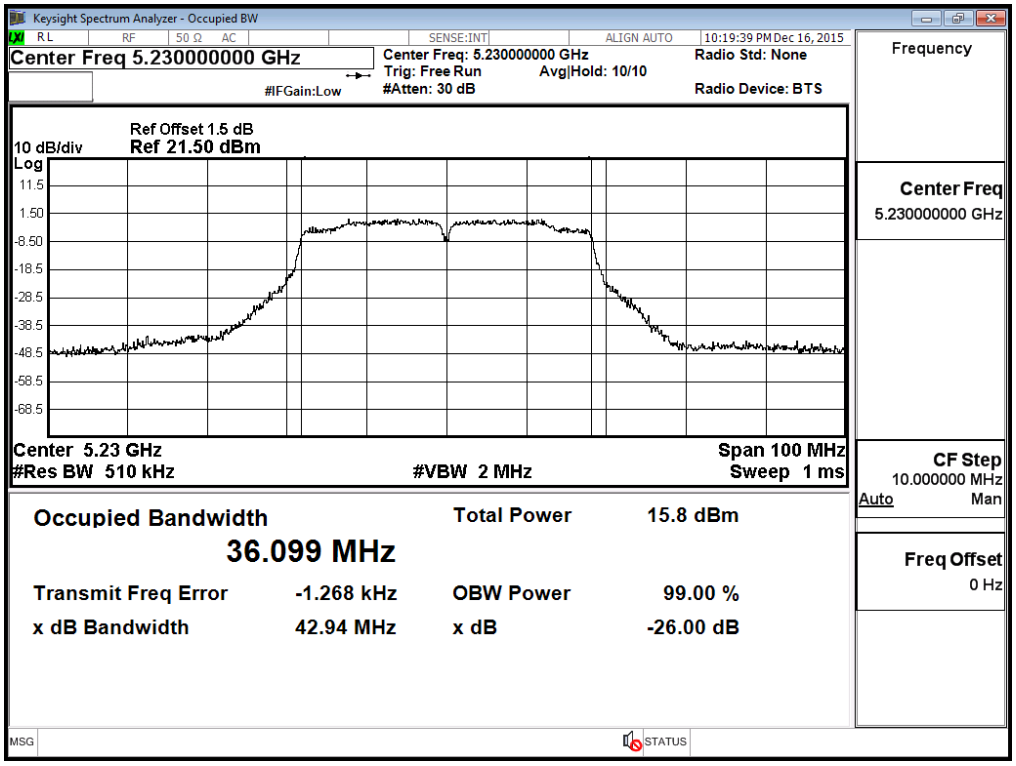
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

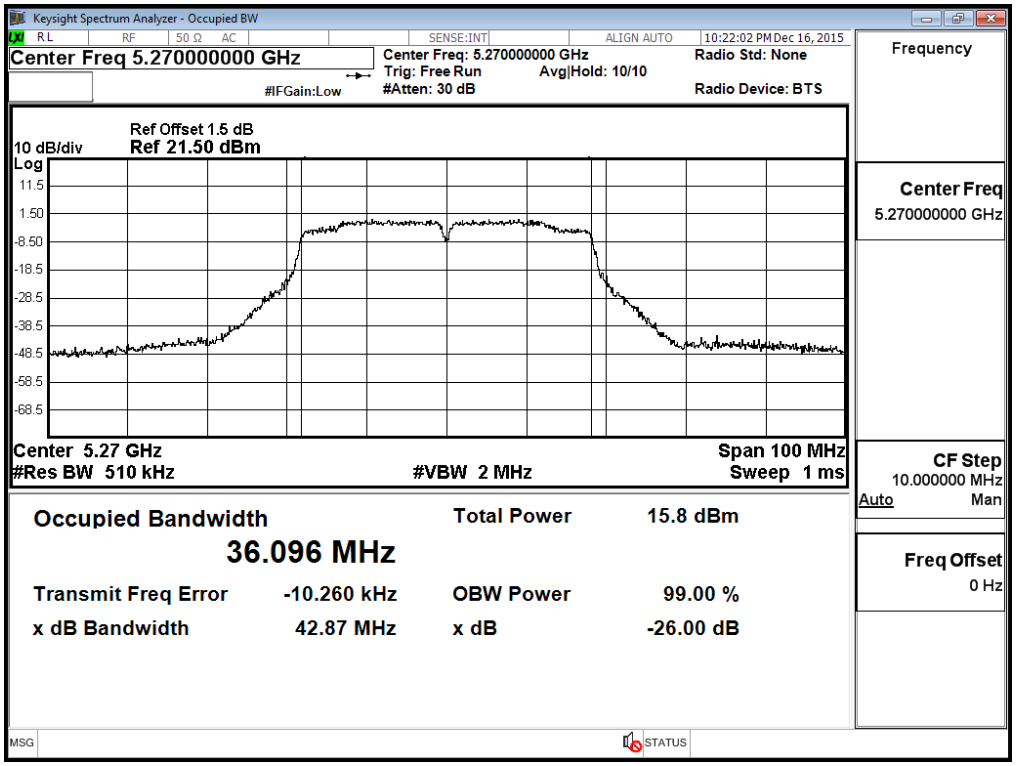
26dBc Occupied Bandwidth:
Channel 38



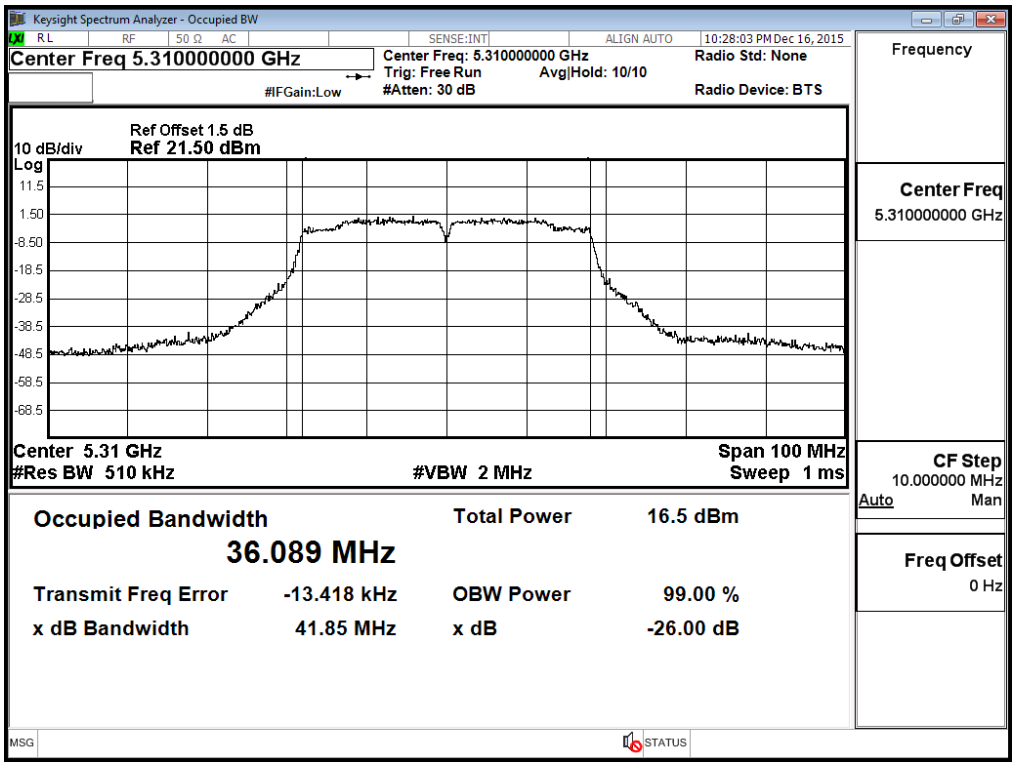
Channel 46



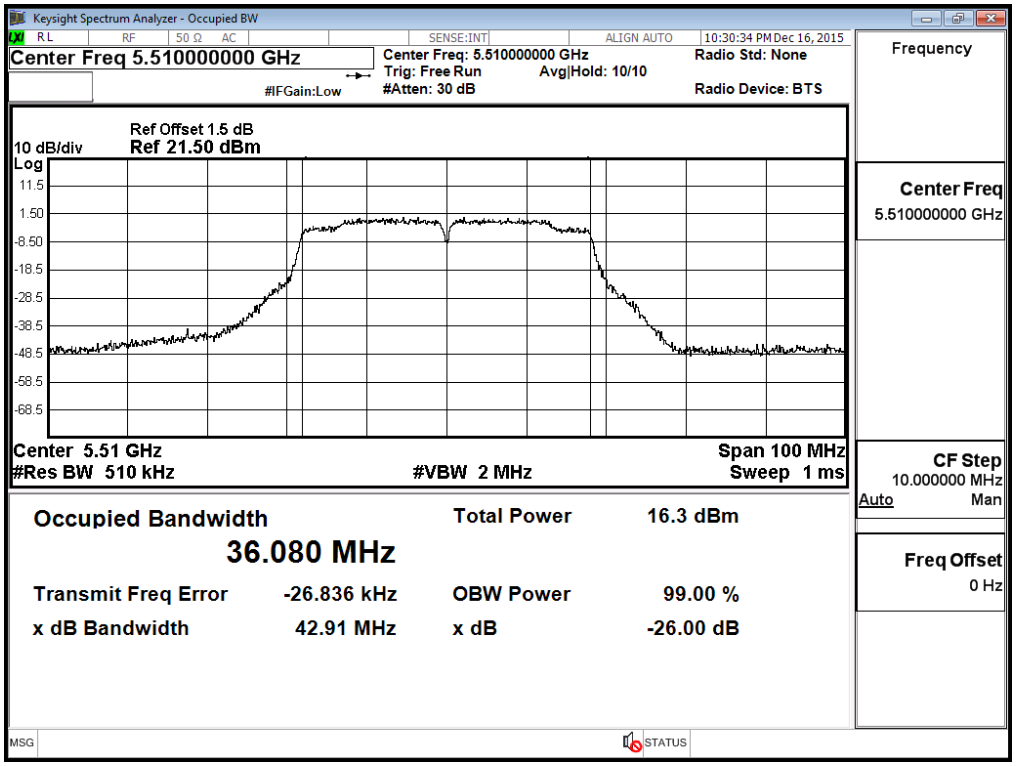
Channel 54



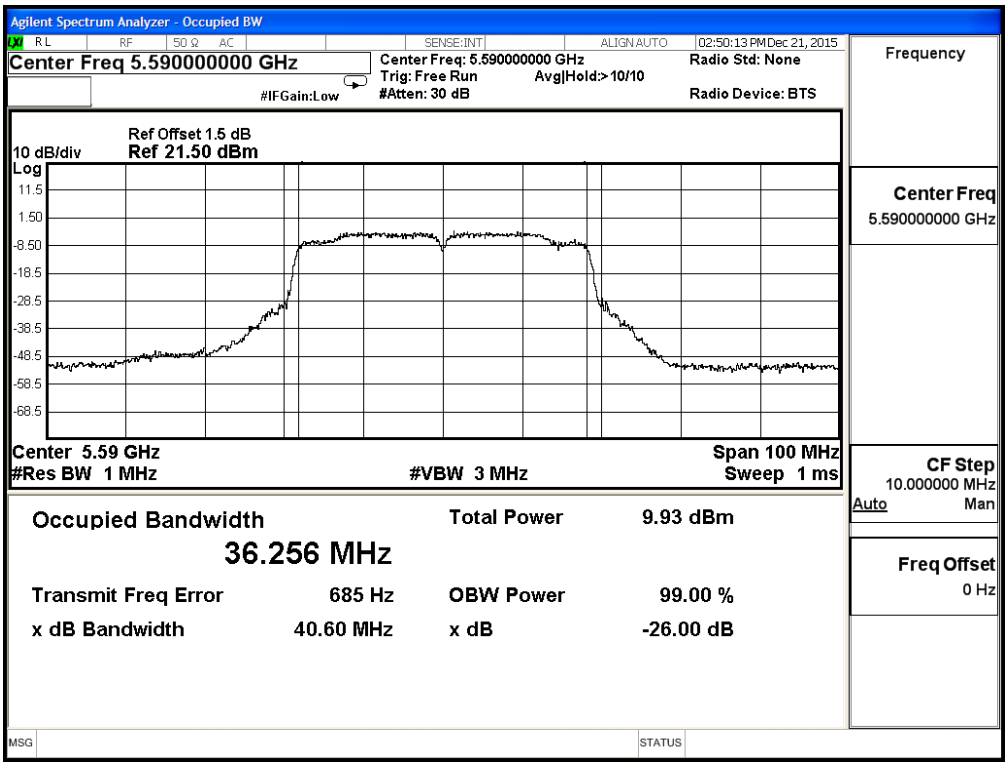
Channel 62



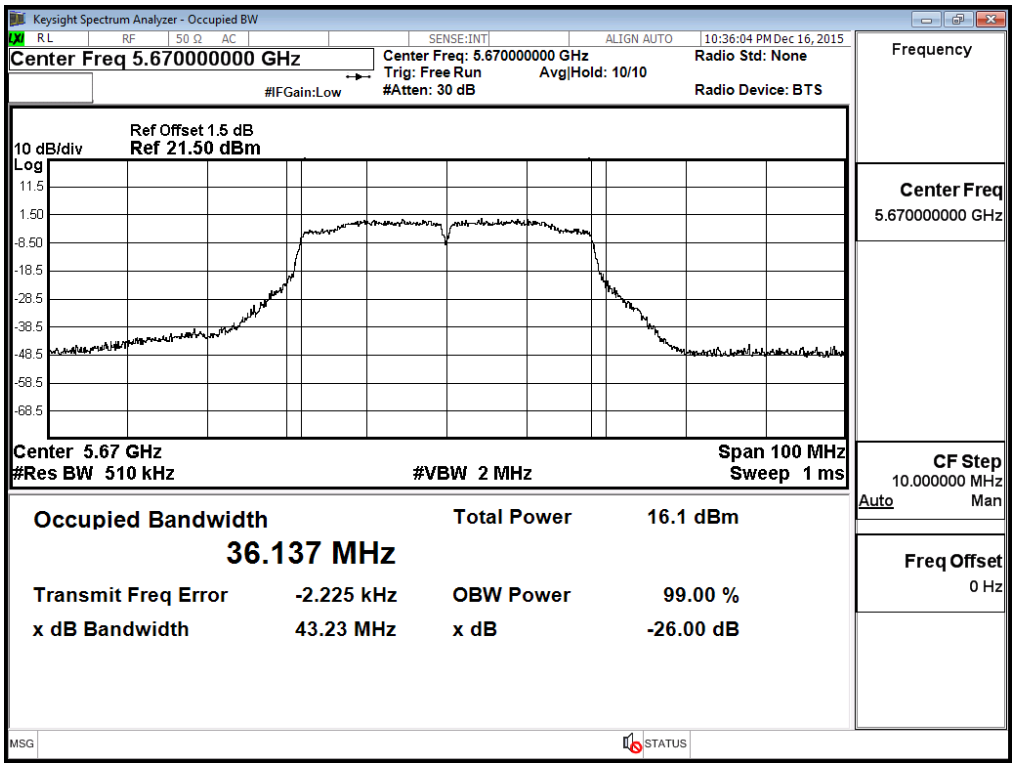
Channel 102



Channel 118



Channel 134


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.670000000 GHz
Center Freq: 5.670000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10:36:04 PM Dec 16, 2015
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.67 GHz
#Res BW 510 kHz
#VBW 2 MHz
Span 100 MHz
Sweep 1 ms
Occupied Bandwidth
36.137 MHz
Total Power 16.1 dBm
Transmit Freq Error -2.225 kHz
OBW Power 99.00 %
x dB Bandwidth 43.23 MHz
x dB -26.00 dB
Frequency
Center Freq
5.670000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps)

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	12.24	12.22	12.19	12.17	12.14	12.11	12.09	12.06	12.04	<24dBm
144 (Band4)	5720	3.68	3.66	3.64	3.61	3.58	3.55	3.53	3.51	3.49	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

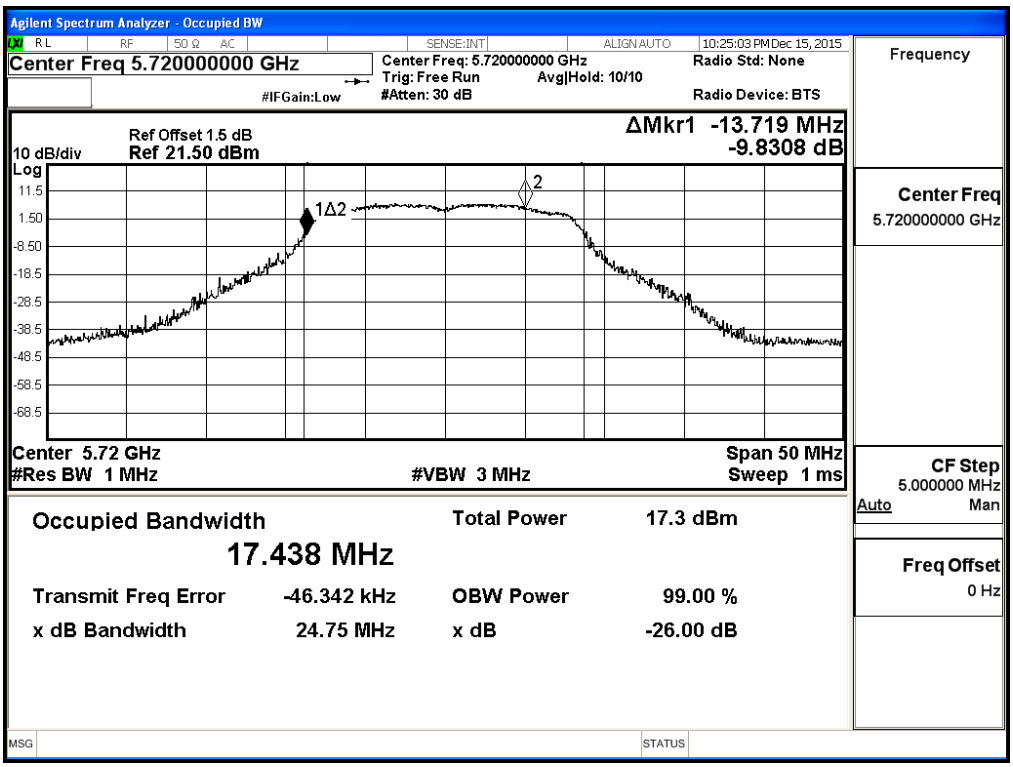
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
144(Band3)	5720	13.719	12.24	24	22.37	Pass
144(Band4)	5720	3.719	3.68	30	16.70	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

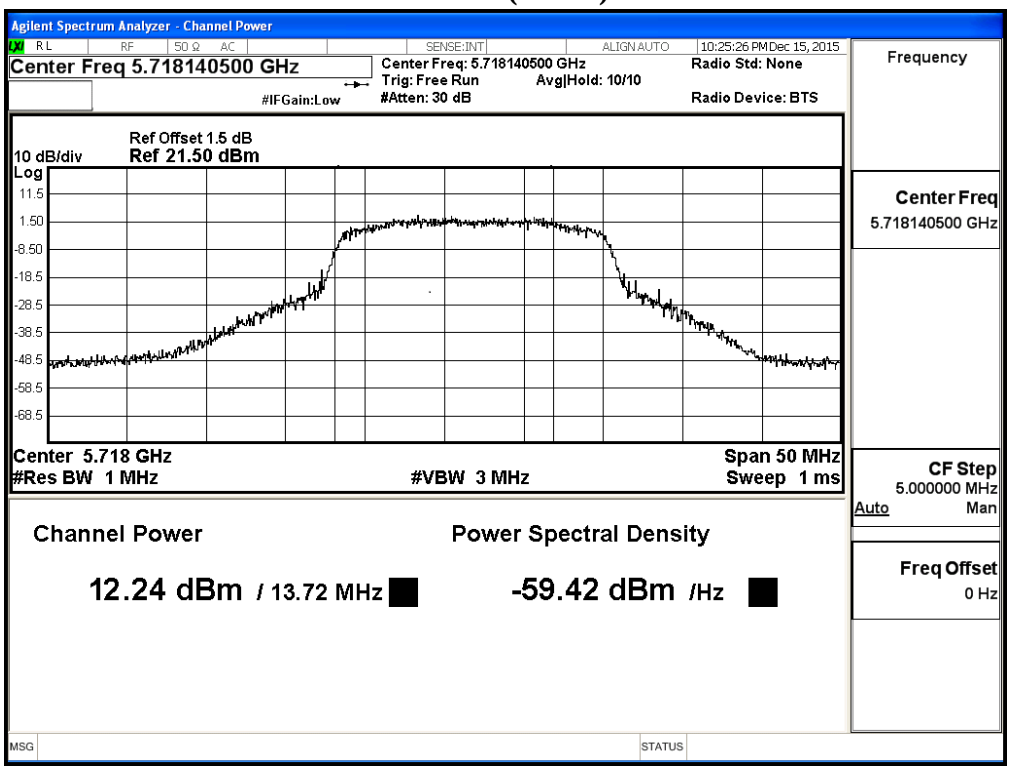
26dBc Occupied Bandwidth:

Channel 144

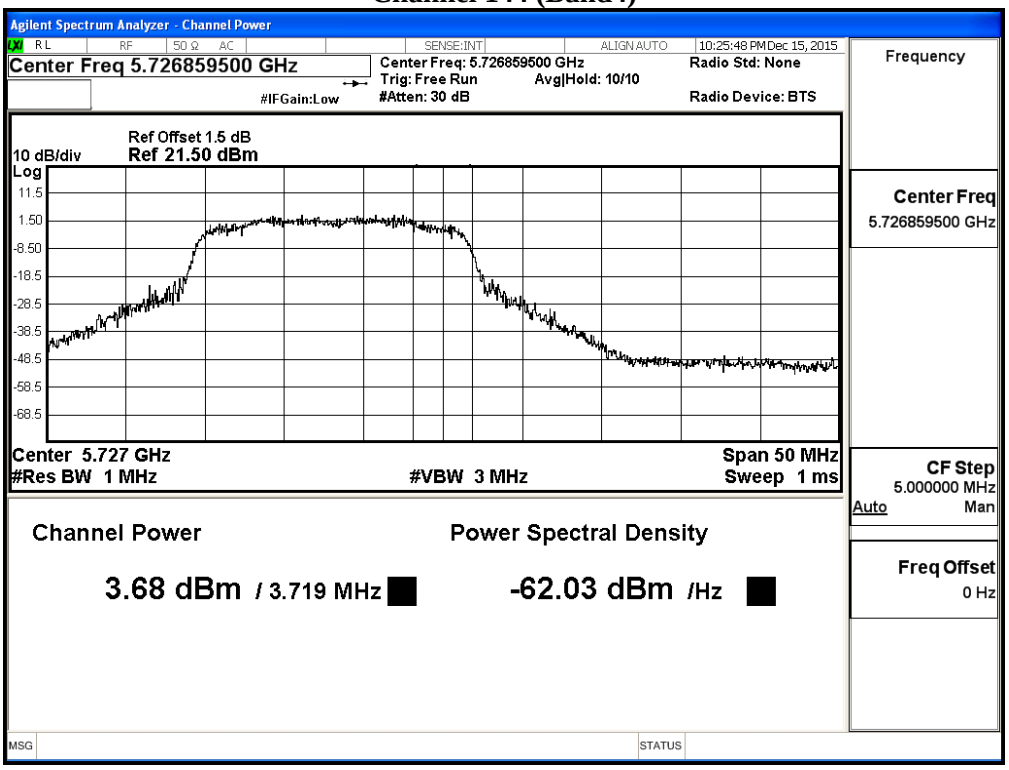


Maximum conducted output power:

Channel 144 (Band3)



Channel 144 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	11.86	11.83	11.8	11.77	11.74	11.71	11.68	11.65	11.61	11.57	<24dBm
142F(Band4)	5710	-0.74	-0.77	-0.79	-0.82	-0.85	-0.88	-0.92	-0.95	-0.97	-0.99	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

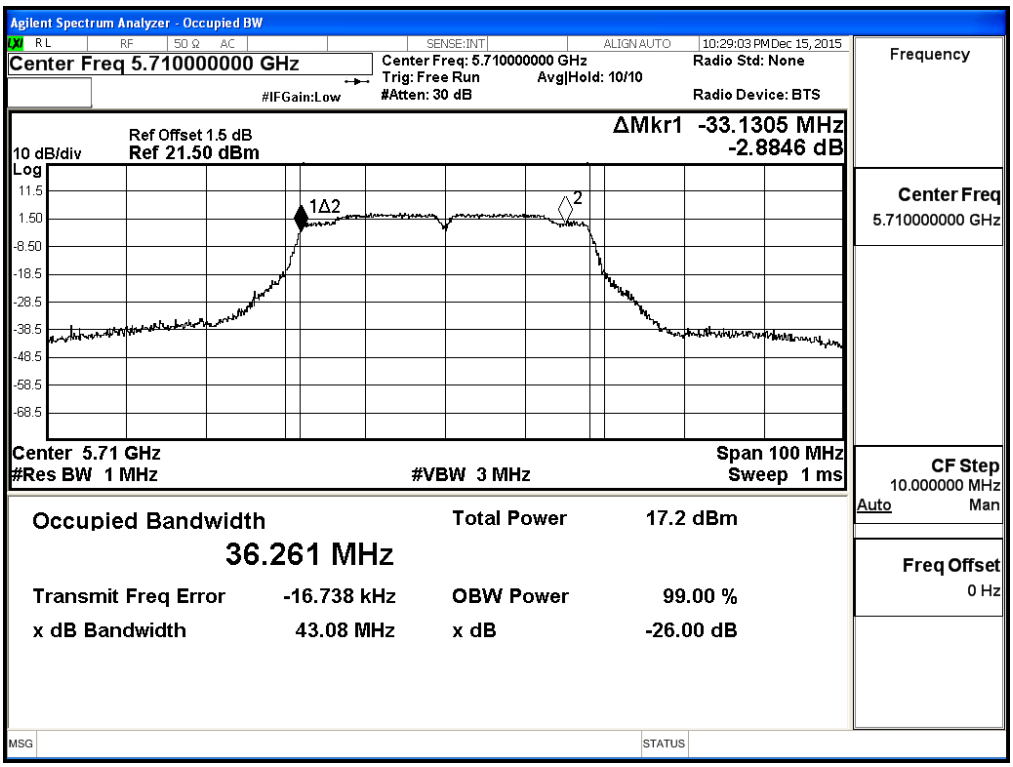
Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.131	11.86	24	26.20	Pass
142F(Band4)	5710	3.131	-0.74	30	15.96	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

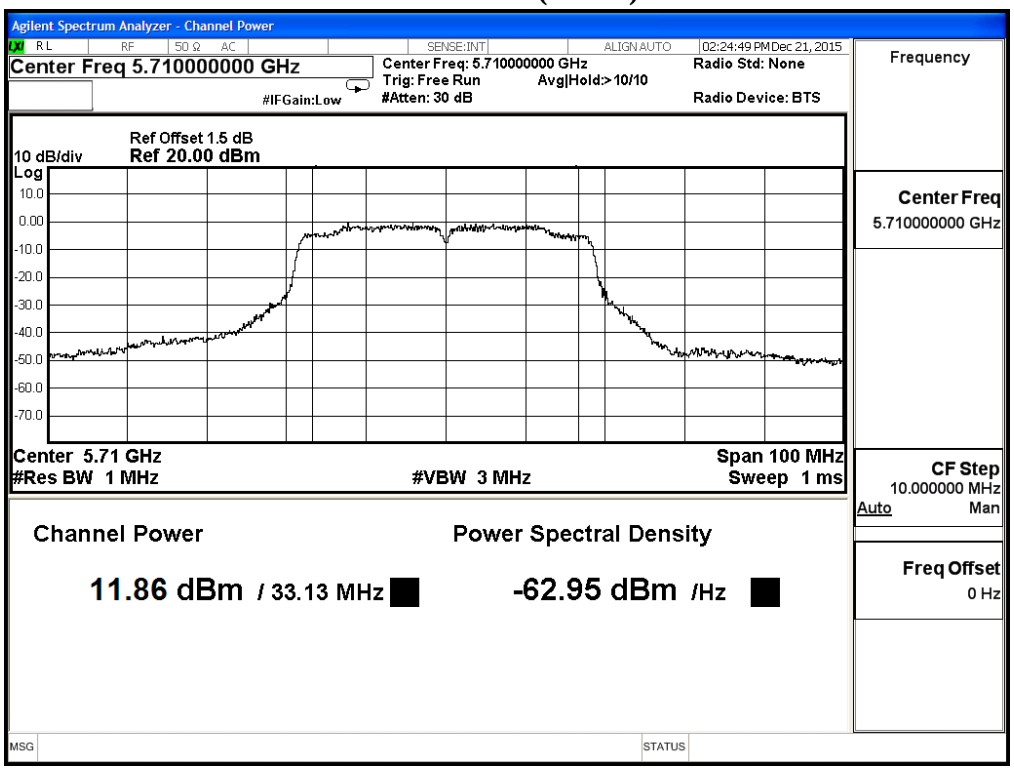
26dBc Occupied Bandwidth:

Channel 142

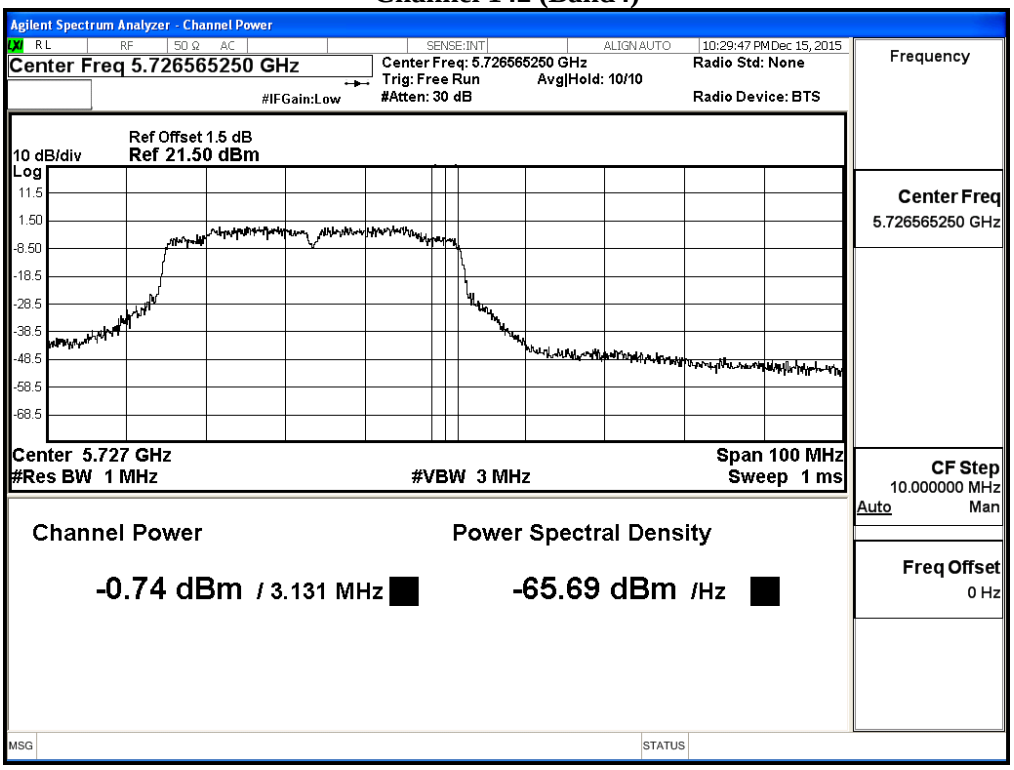


Maximum conducted output power:

Channel 142 (Band3)



Channel 142 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	10.12	10.1	10.08	10.05	10.03	10	9.97	9.95	9.92	9.89	<24dBm
58	5290	11.46	11.43	11.39	11.37	11.35	11.33	11.31	11.28	11.26	11.24	<24dBm
106	5530	11.23	11.2	11.17	11.14	11.11	11.08	11.06	11.04	11.01	10.99	<24dBm
122	5610	11.89	11.87	11.85	11.83	11.8	11.78	11.76	11.73	11.71	11.68	<24dBm
138(Band3)	5690	11.89	11.87	11.85	11.83	11.80	11.77	11.74	11.72	11.69	11.66	<24dBm
138(Band4)	5690	-3.28	-3.31	-3.34	-3.37	-3.40	-3.42	-3.45	-3.48	-3.51	-3.53	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

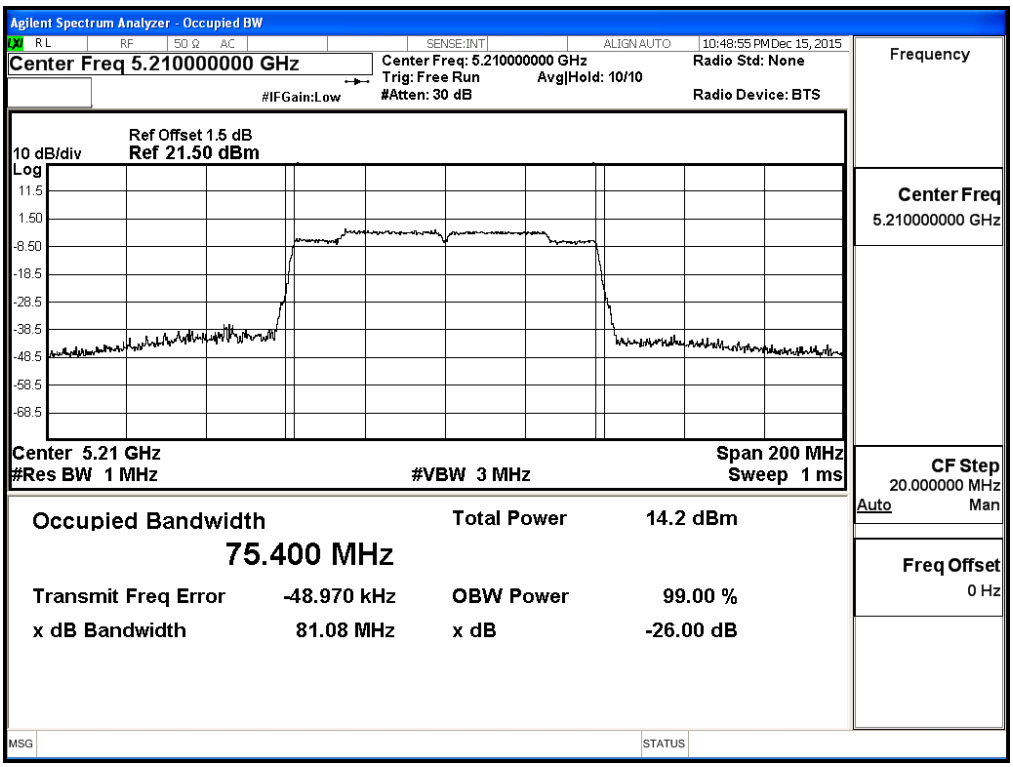
Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	75.400	10.12	17	29.77	Pass
58	5290	75.518	11.46	17	29.78	Pass
106	5530	75.435	11.23	24	29.78	Pass
122	5610	75.471	11.89	24	29.78	Pass
138	5690	72.758	11.89	24	29.62	Pass
138ac80(Band4)	5690	2.758	-3.28	30	15.41	Pass

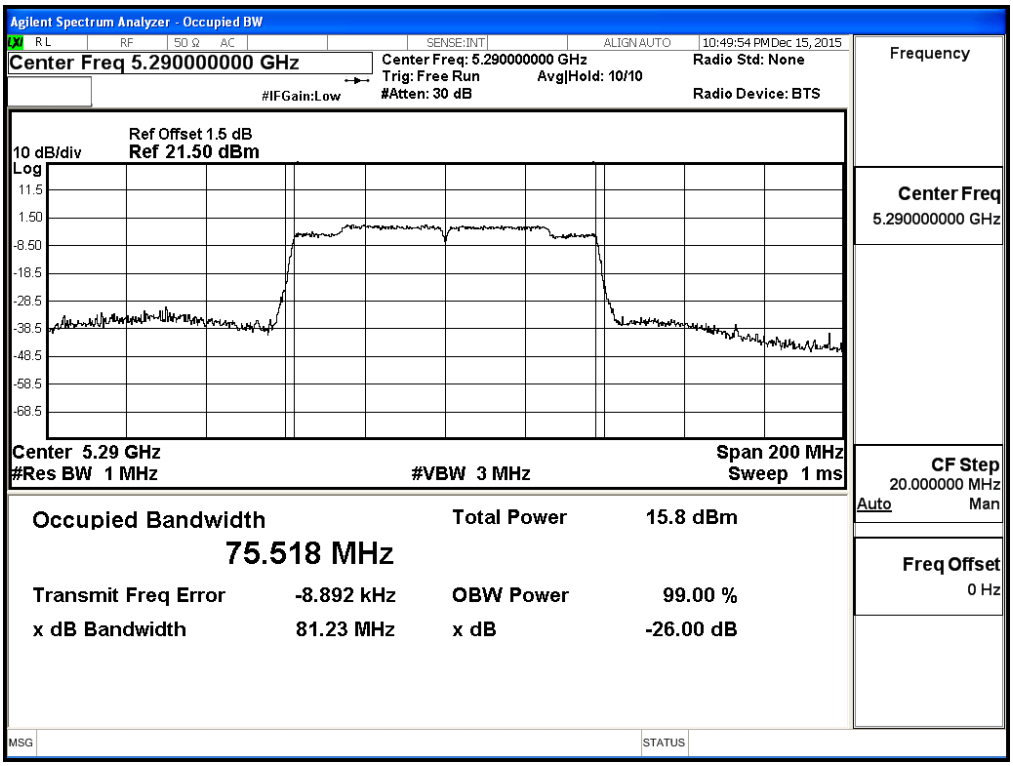
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:

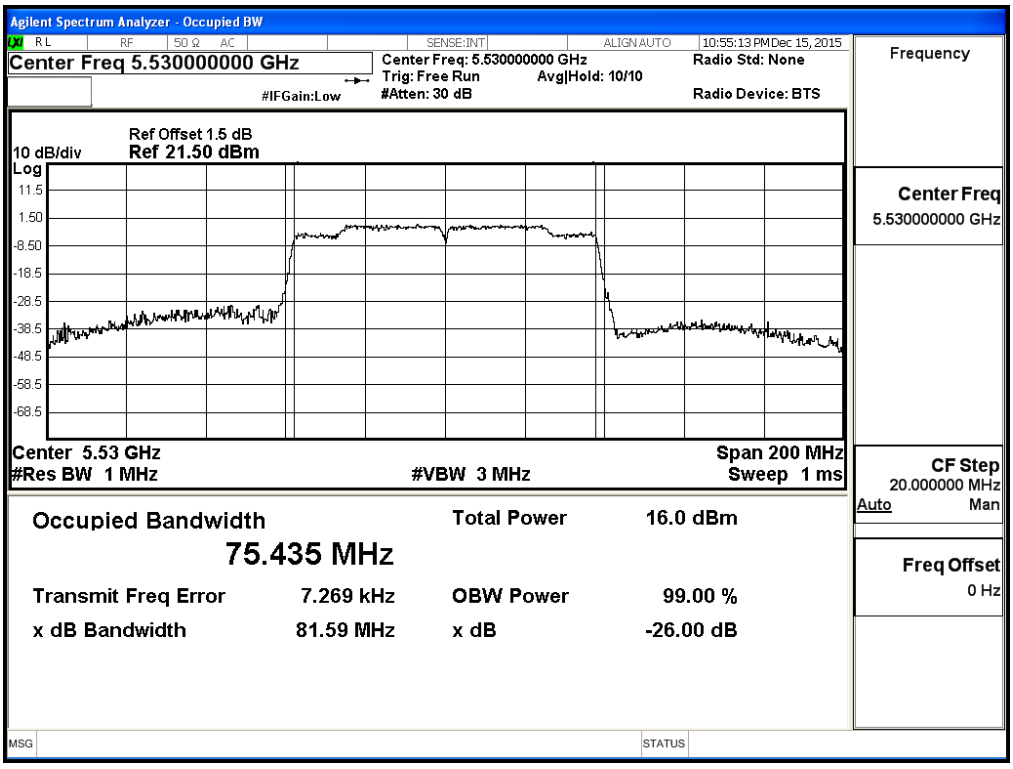
Channel 42



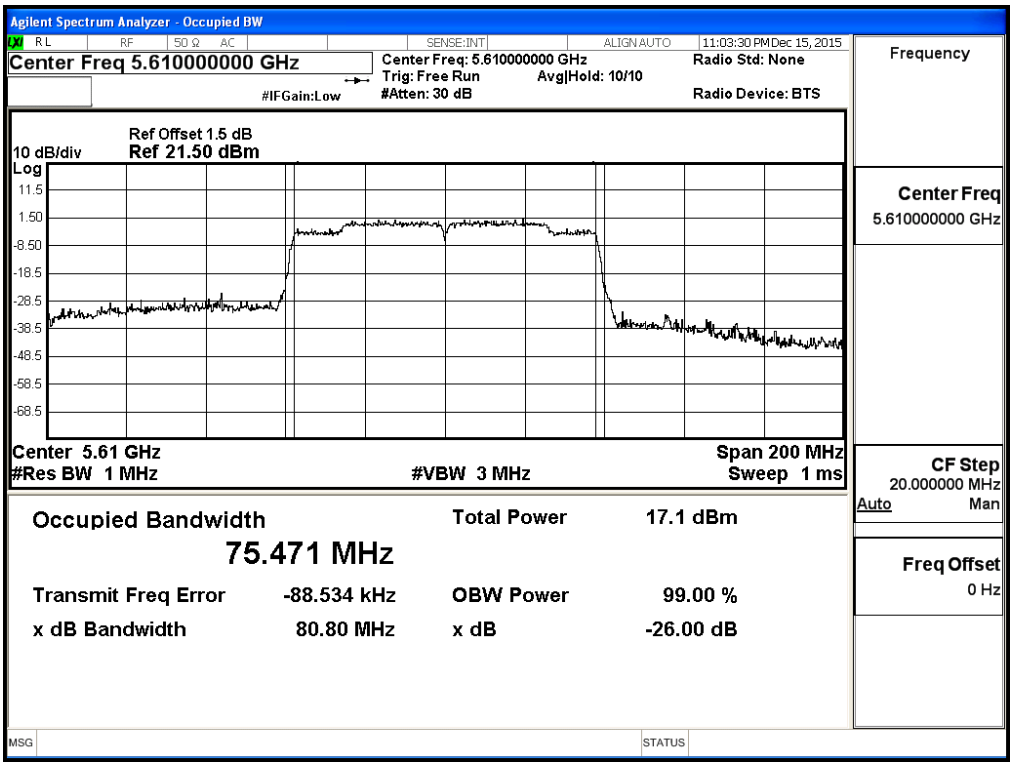
Channel 58



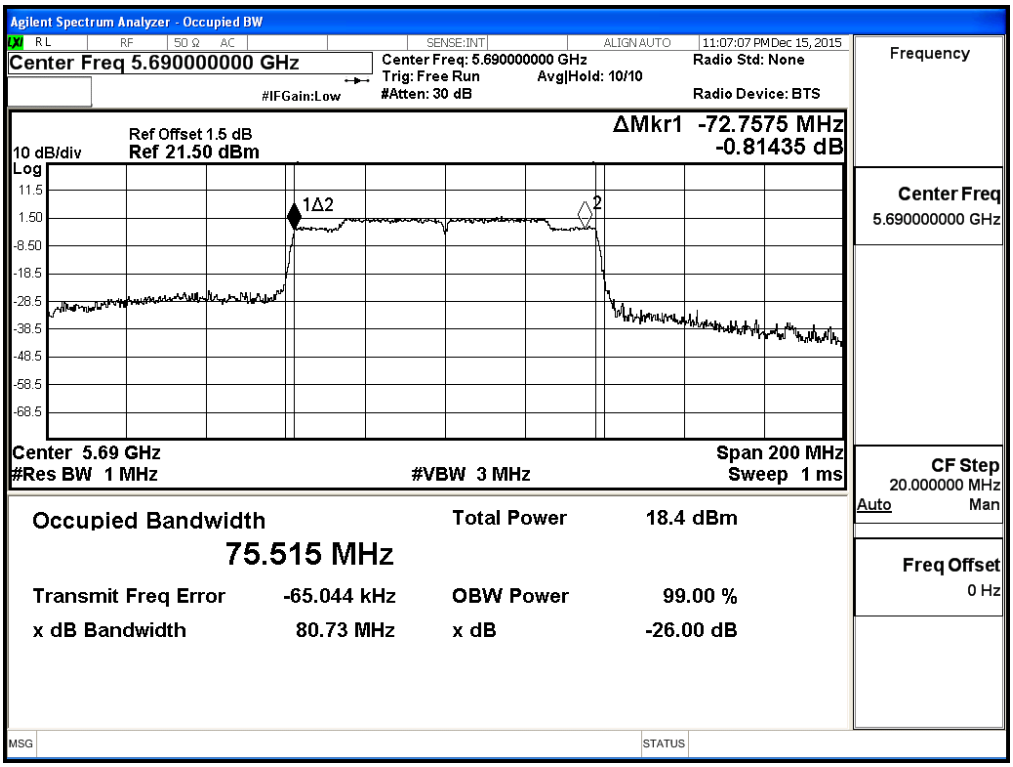
Channel 106



Channel 122

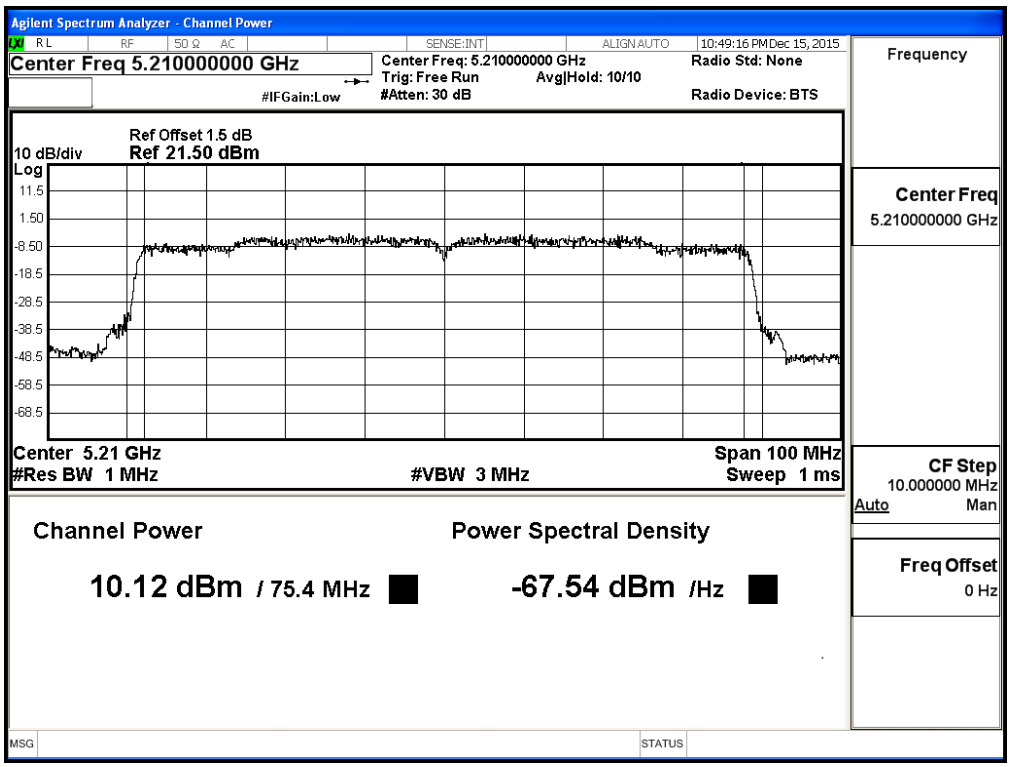


Channel 138


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.690000000 GHz
Center Freq: 5.690000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
11:07:07 PM Dec 15, 2015
Frequency
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
ΔMkr1 -72.7575 MHz
-0.81435 dB
Center Freq
5.690000000 GHz
Center 5.69 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 200 MHz
Sweep 1 ms
CF Step
20.000000 MHz
Auto
Man
Occupied Bandwidth
75.515 MHz
Total Power 18.4 dBm
Transmit Freq Error -65.044 kHz
OBW Power 99.00 %
x dB Bandwidth 80.73 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

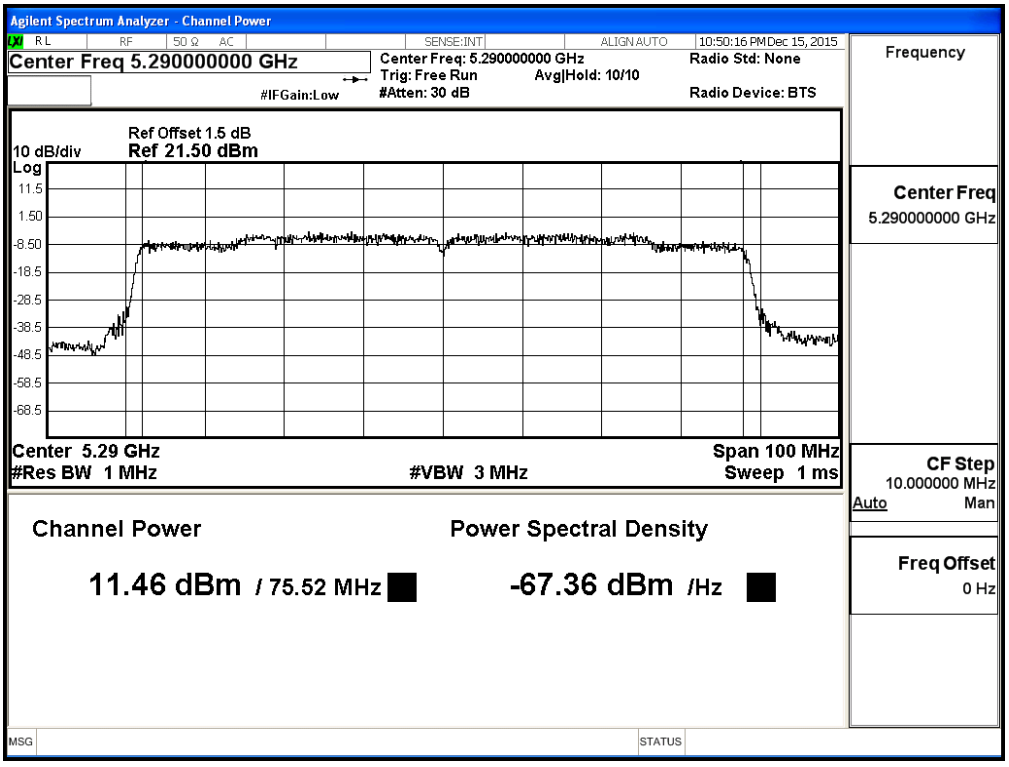
Maximum conducted output power:

Channel 42



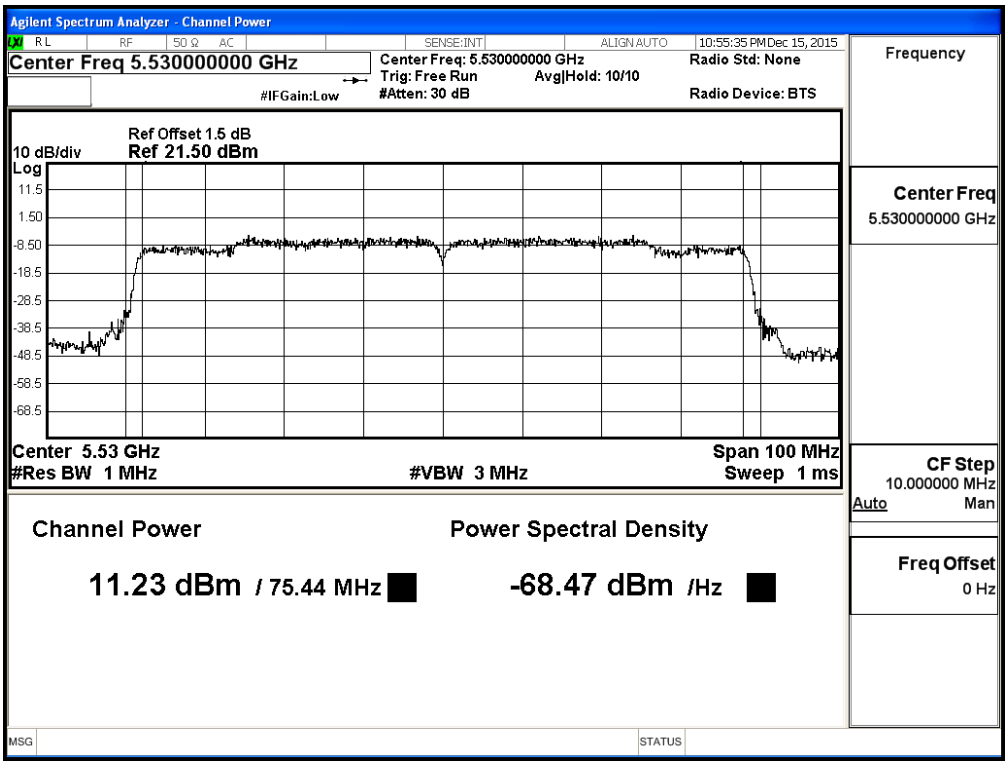
Maximum conducted output power:

Channel 58



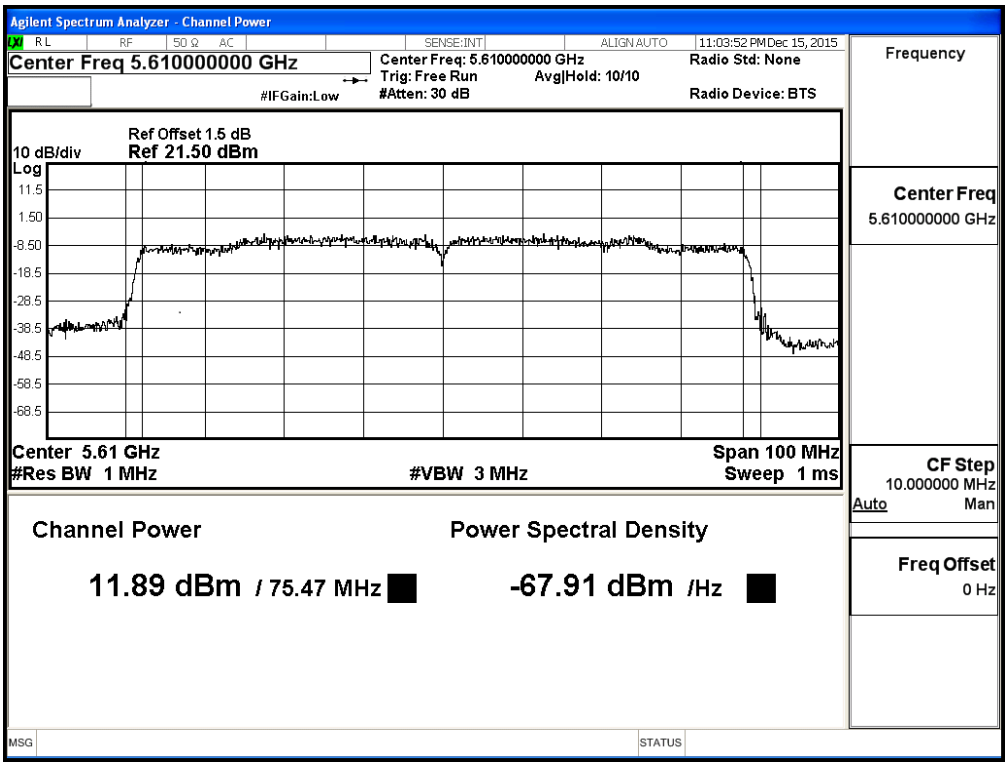
Maximum conducted output power:

Channel 106



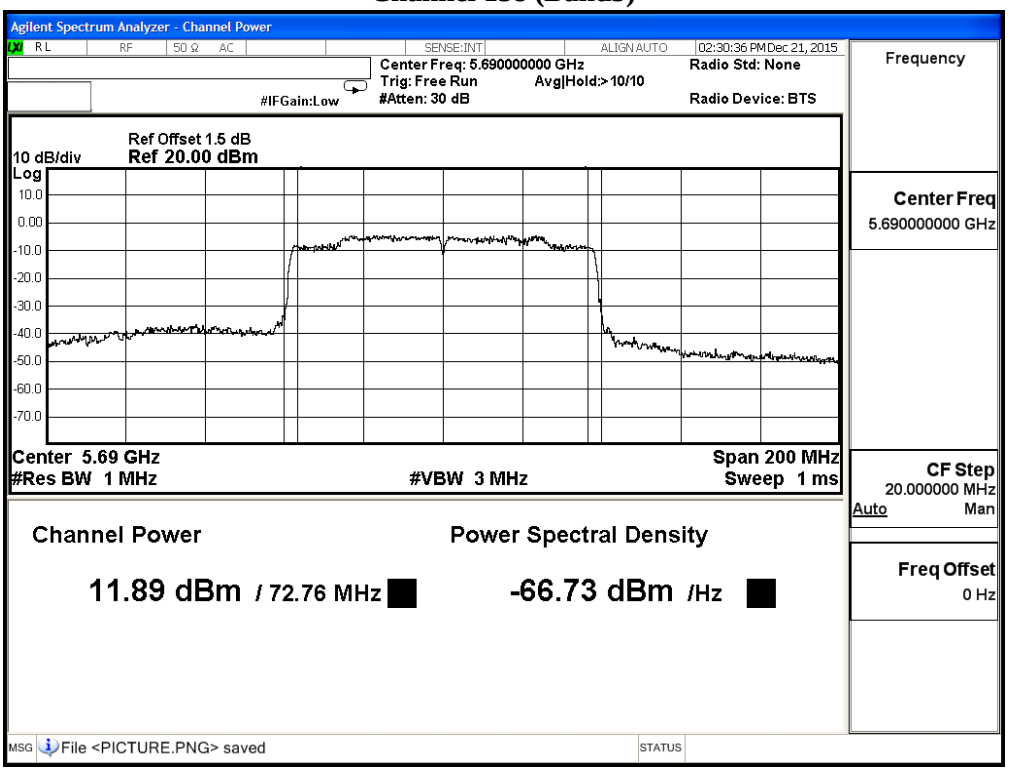
Maximum conducted output power:

Channel 122



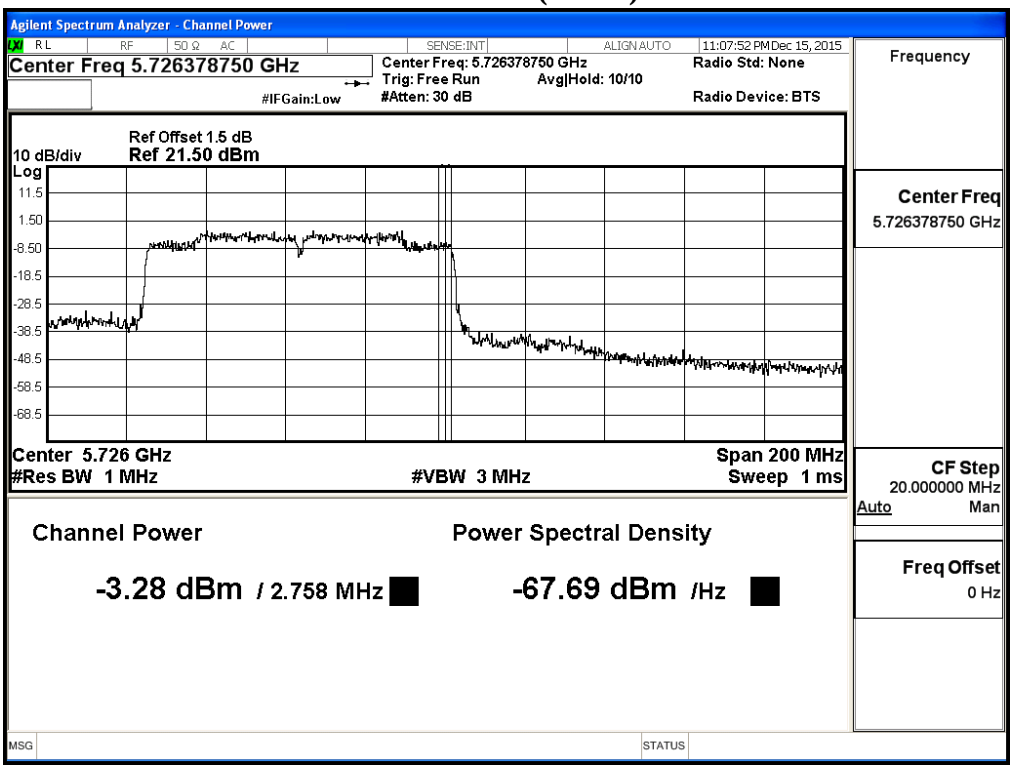
Maximum conducted output power:

Channel 138 (Band3)



Maximum conducted output power:

Channel 138 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	12.32	--	--	--	--	--	--	--	<17dBm
44	5220	12.5	12.47	12.44	12.41	12.39	12.37	12.34	12.32	<17dBm
48	5240	12.48	--	--	--	--	--	--	--	<17dBm
52	5260	11.88	--	--	--	--	--	--	--	<24dBm
60	5300	11.11	11.08	11.06	11.04	11.01	10.99	10.96	10.93	<24dBm
64	5320	10.98	--	--	--	--	--	--	--	<24dBm
100	5500	11.29	--	--	--	--	--	--	--	<24dBm
120	5600	10.89	10.87	10.85	10.82	10.8	10.77	10.74	10.71	<24dBm
140	5700	9.63	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

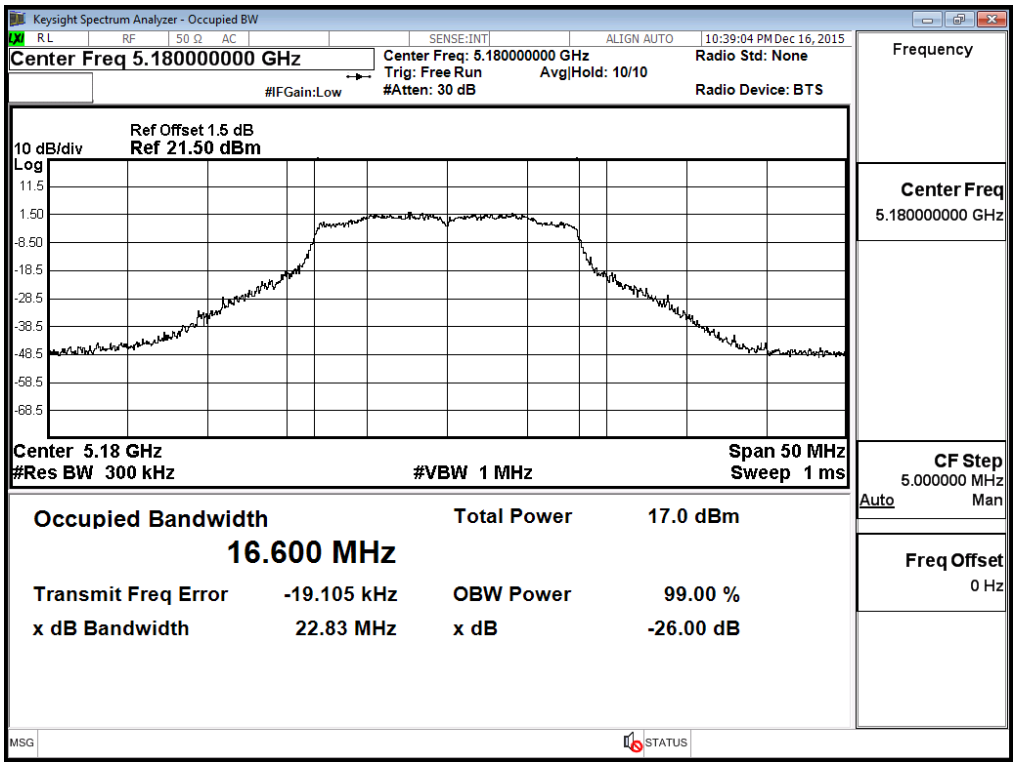
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	16.600	12.32	17	16.20
44	5220	16.607	12.5	17	16.20
48	5240	16.618	12.48	17	16.21
52	5260	16.633	11.88	24	23.21
60	5300	16.632	11.11	24	23.21
64	5320	16.656	10.98	24	23.22
100	5500	16.588	11.29	24	23.20
120	5600	16.877	10.89	24	23.27
140	5700	16.614	9.63	24	23.20

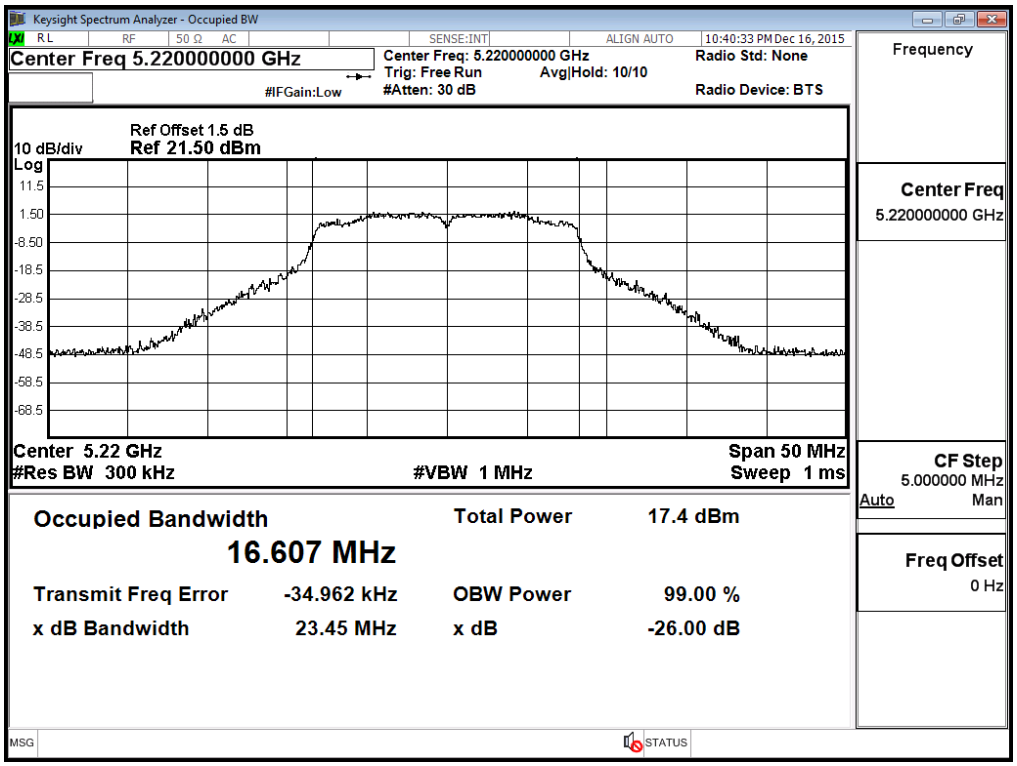
Note:
1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

26dBc Occupied Bandwidth:

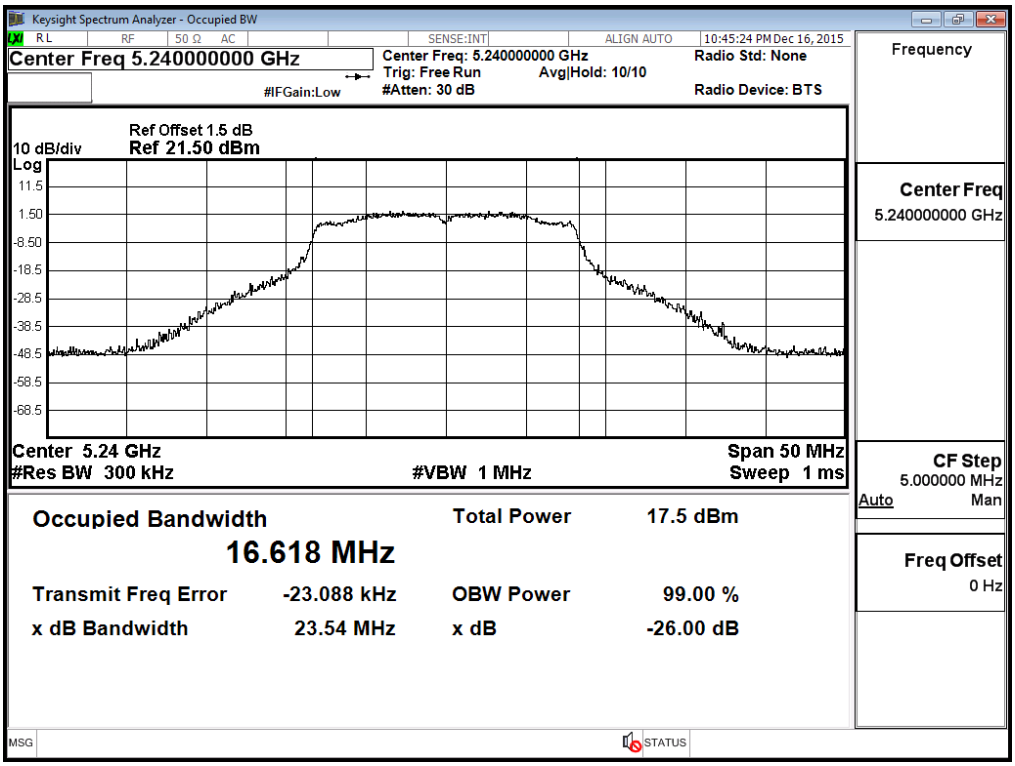
Channel 36:



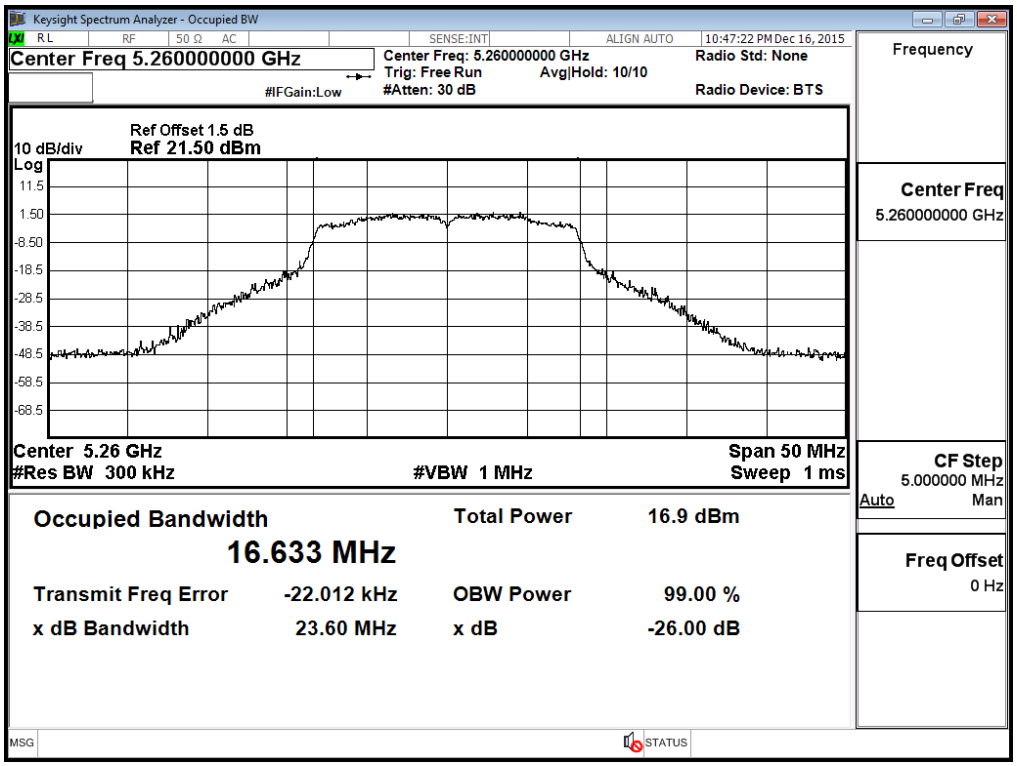
Channel 44:



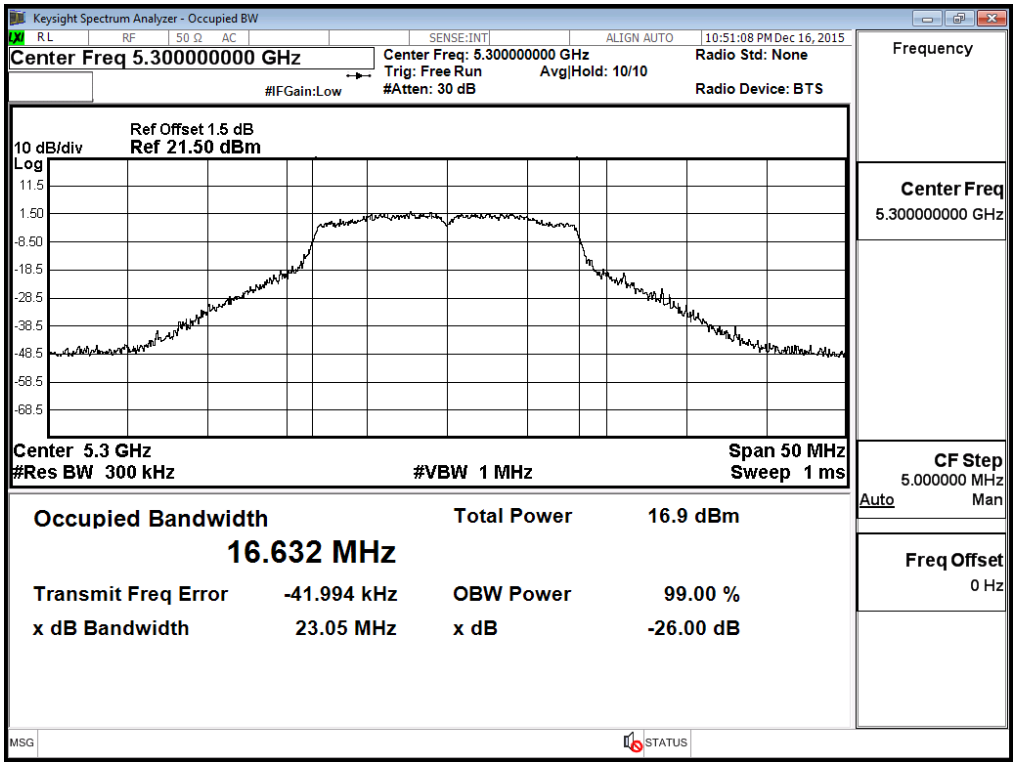
Channel 48:



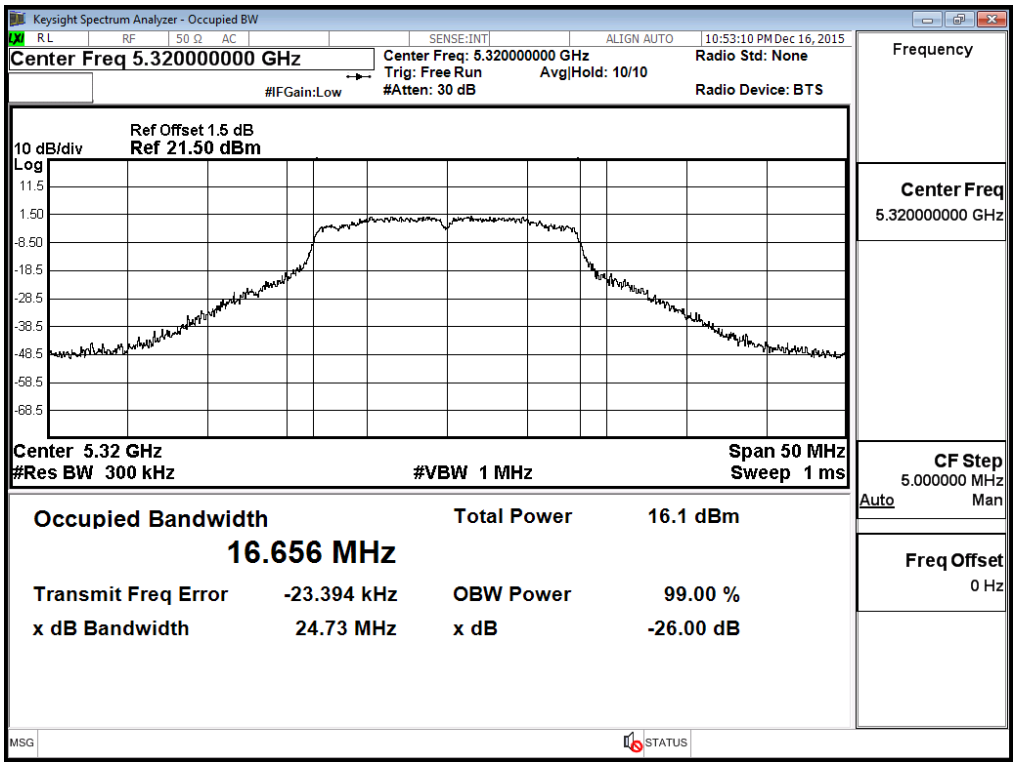
Channel 52:



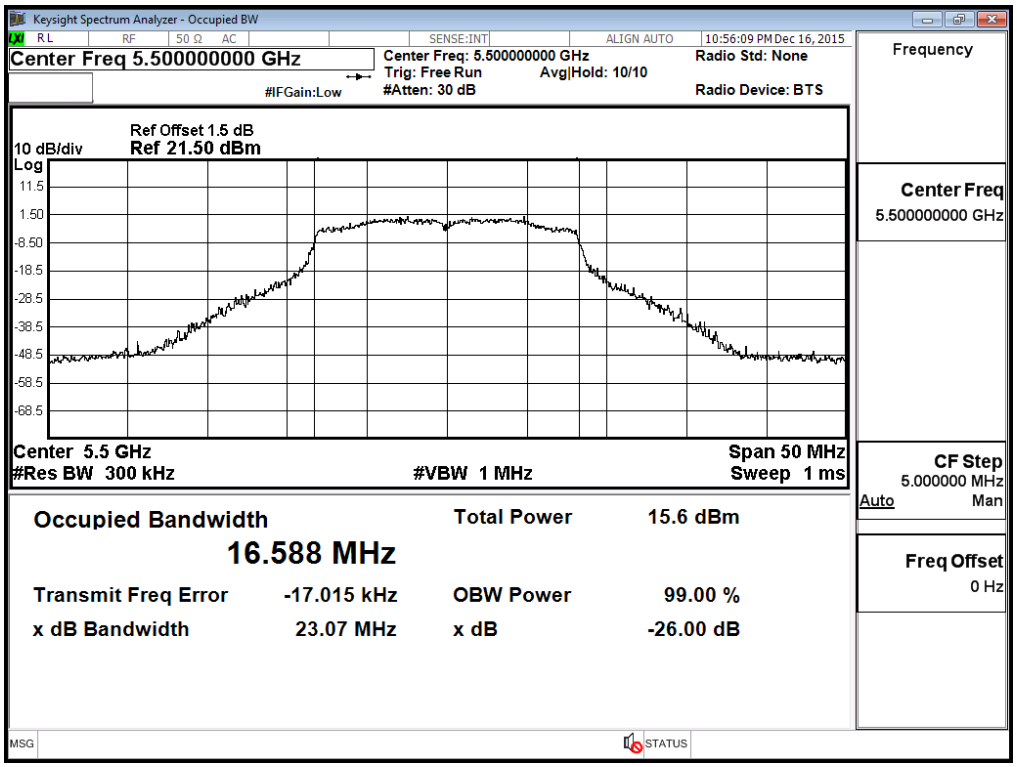
Channel 60:



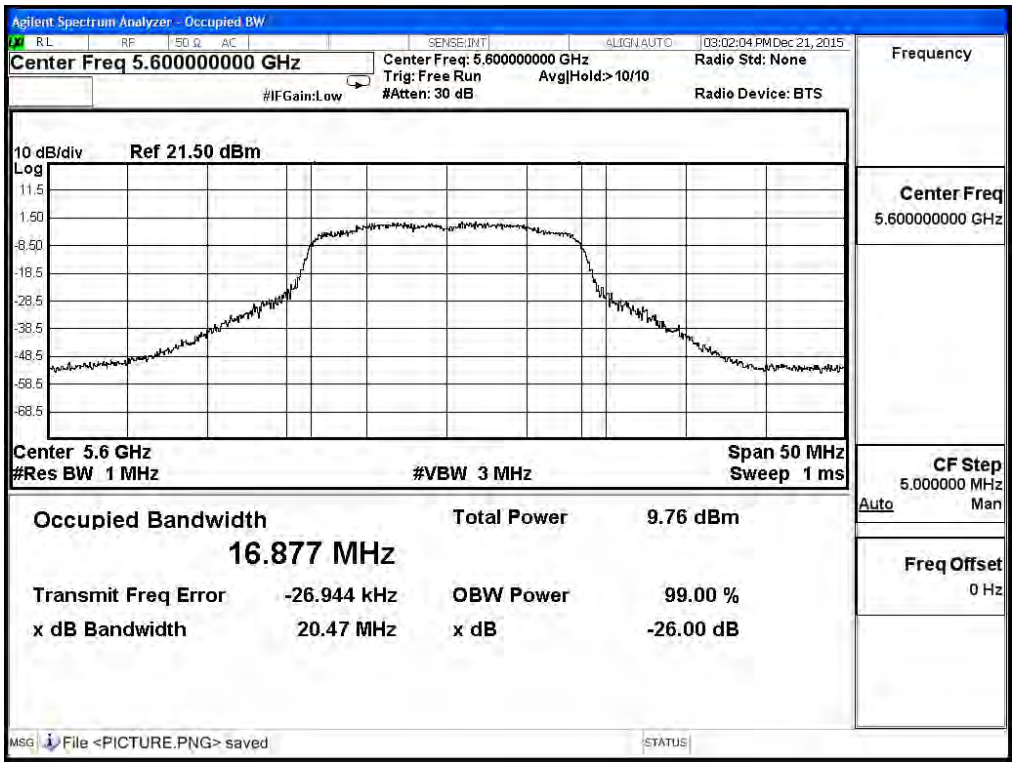
Channel 64:



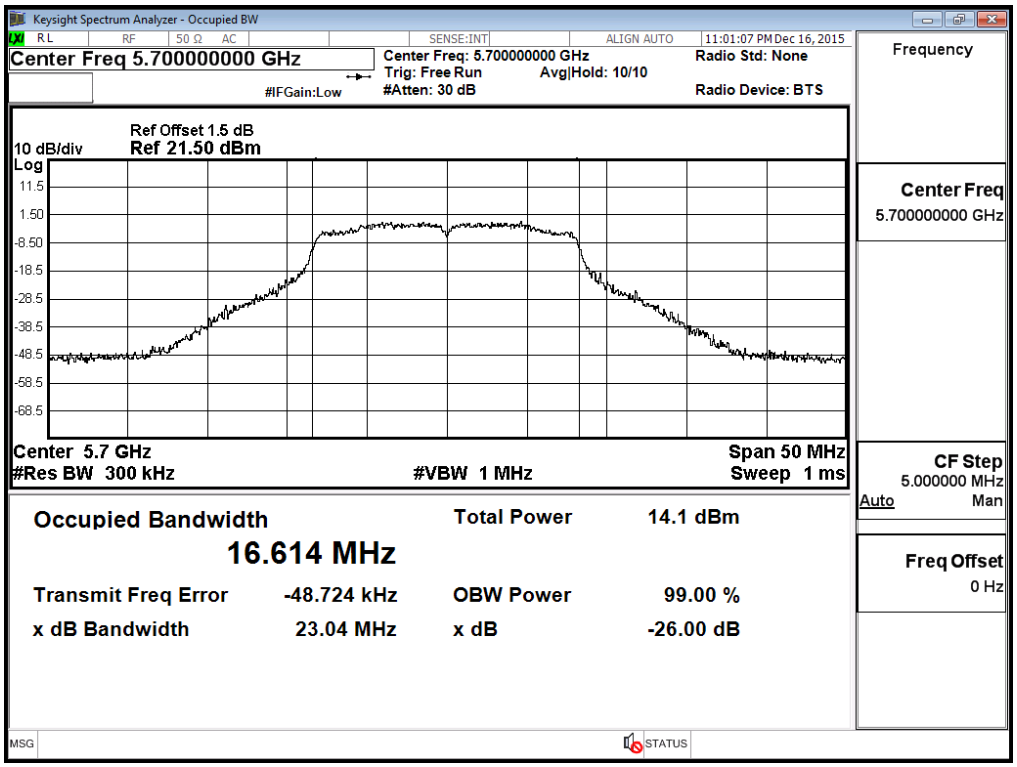
Channel 100:



Channel 120:



Channel 140:


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.700000000 GHz
Center Freq: 5.700000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
Center 5.7 GHz
#Res BW 300 kHz
#VBW 1 MHz
Span 50 MHz
Sweep 1 ms
Occupied Bandwidth
16.614 MHz
Total Power 14.1 dBm
Transmit Freq Error -48.724 kHz
OBW Power 99.00 %
x dB Bandwidth 23.04 MHz
x dB -26.00 dB
Frequency
Center Freq
5.700000000 GHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
		Measurement Level (dBm)								
36	5180	12.32	--	--	--	--	--	--	--	<17dBm
44	5220	12.5	12.47	12.44	12.42	12.39	12.37	12.35	12.32	<17dBm
48	5240	12.47	--	--	--	--	--	--	--	<17dBm
52	5260	11.86	--	--	--	--	--	--	--	<24dBm
60	5300	11.5	11.47	11.45	11.42	11.4	11.48	11.45	11.43	<24dBm
64	5320	10.86	--	--	--	--	--	--	--	<24dBm
100	5500	11.22	--	--	--	--	--	--	--	<24dBm
120	5600	11.18	11.16	11.13	11.11	11.08	11.06	11.04	11.01	<24dBm
140	5700	9.43	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

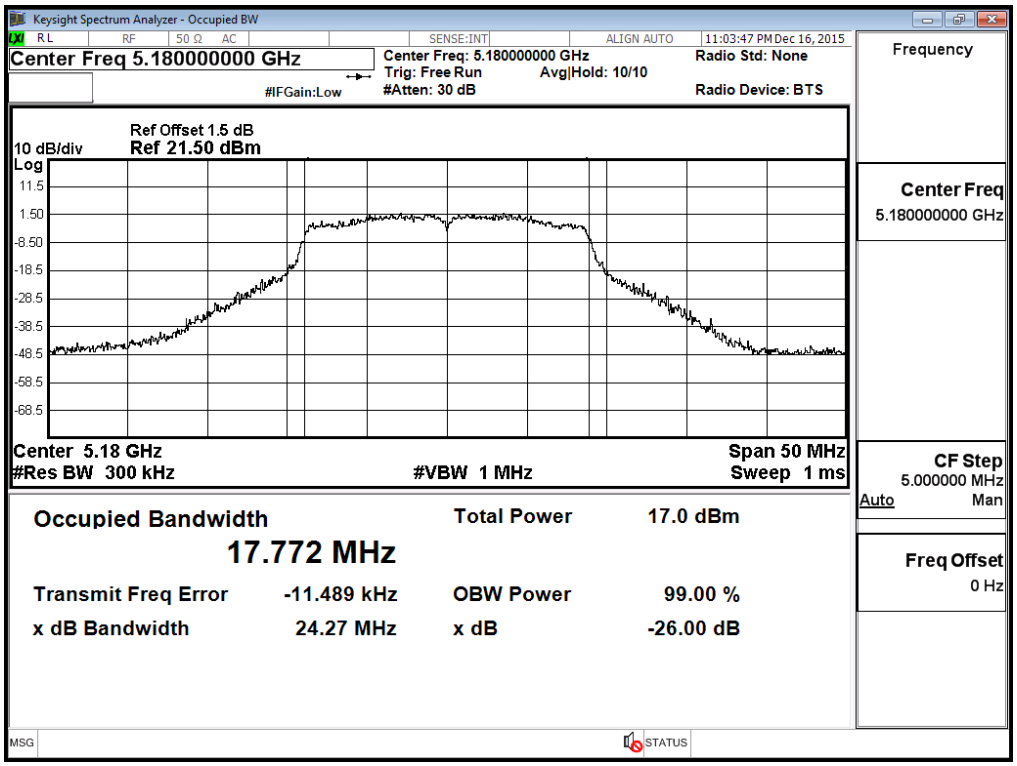
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	17.772	12.32	17	16.50
44	5220	17.751	12.5	17	16.49
48	5240	17.739	12.47	17	16.49
52	5260	17.747	11.86	24	23.49
60	5300	17.769	11.5	24	23.50
64	5320	17.786	10.86	24	23.50
100	5500	17.742	11.22	24	23.49
120	5600	17.997	11.18	24	23.55
140	5700	17.736	9.43	24	23.49

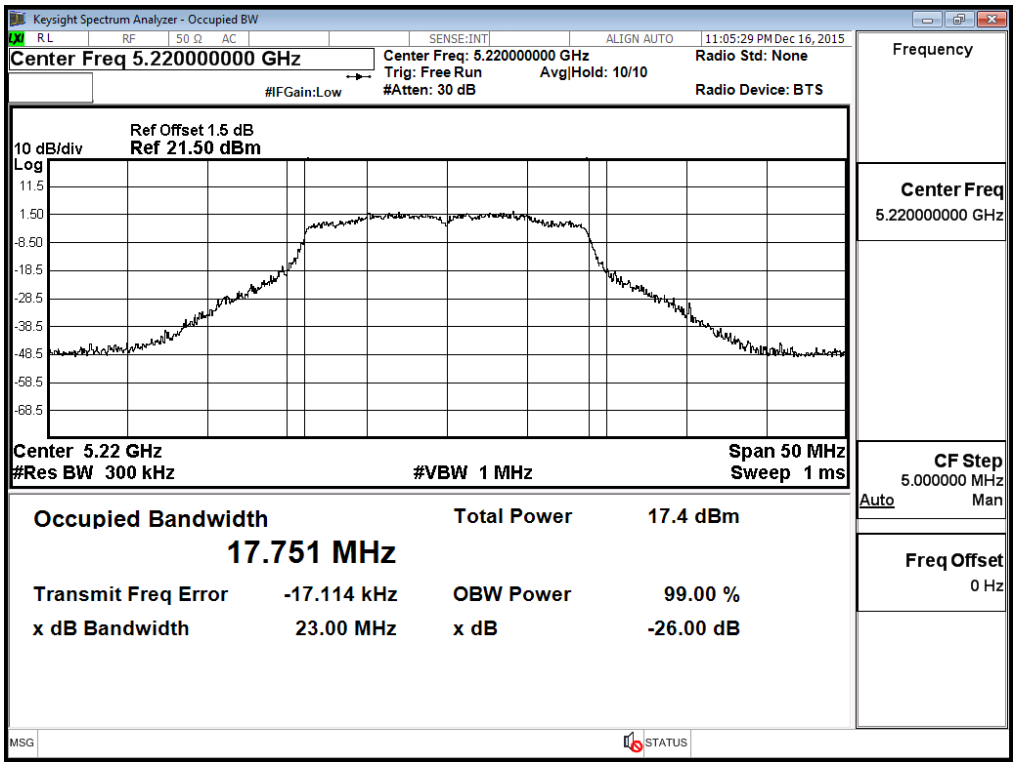
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

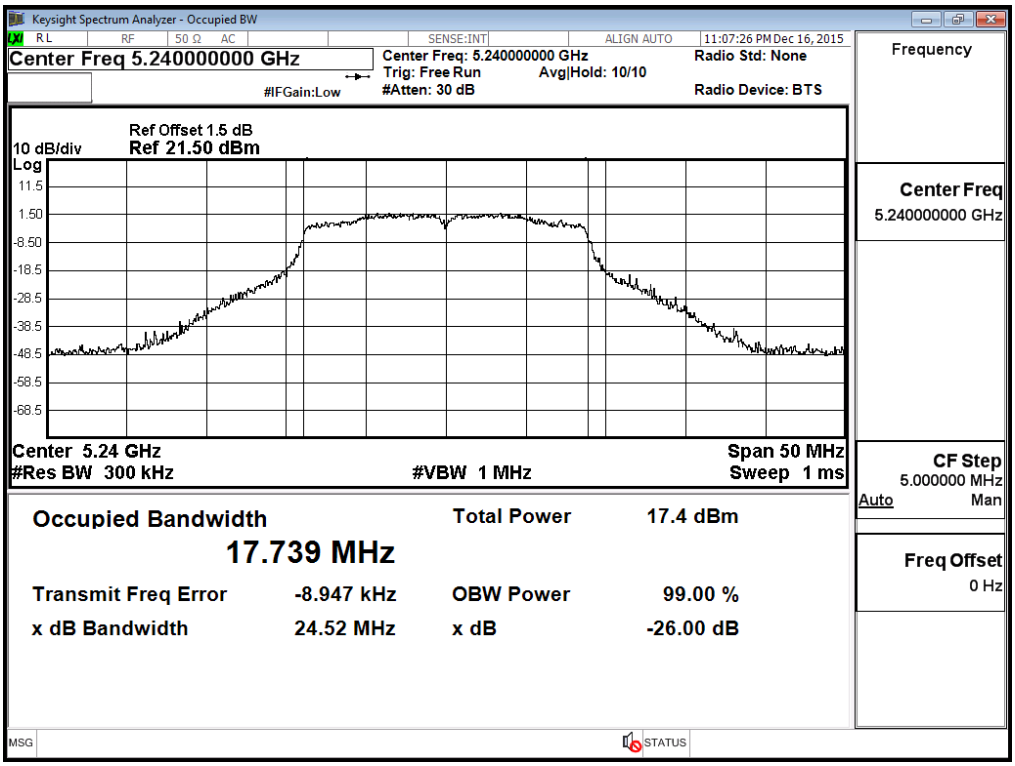
26dBc Occupied Bandwidth:
Channel 36:



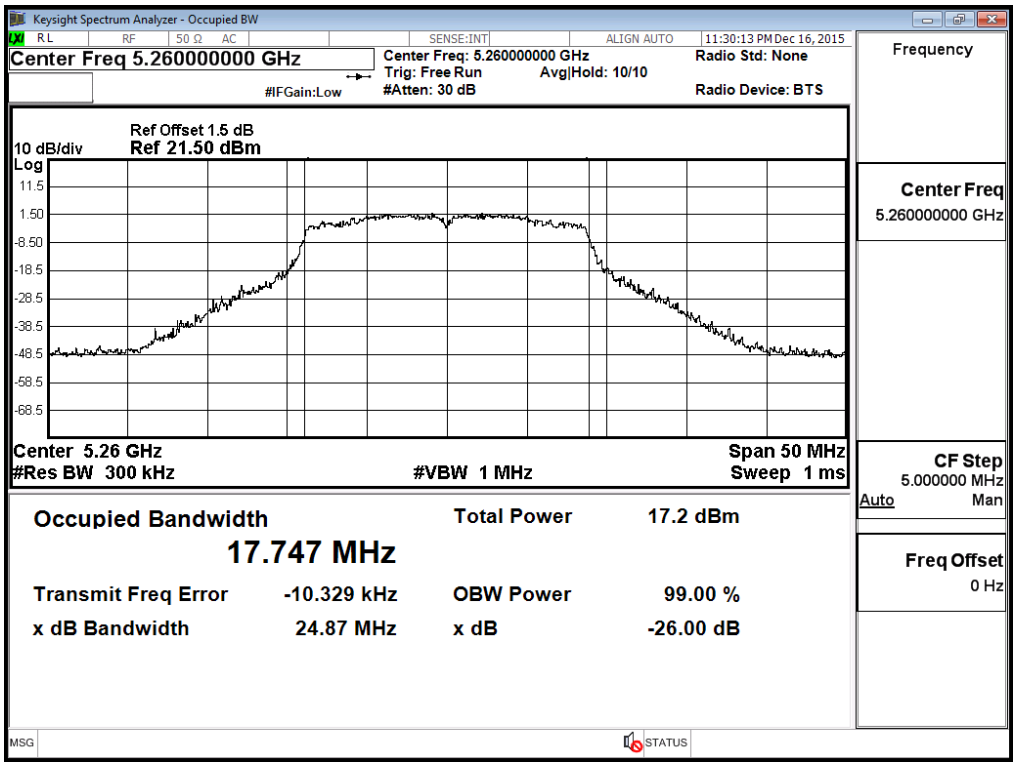
Channel 44:



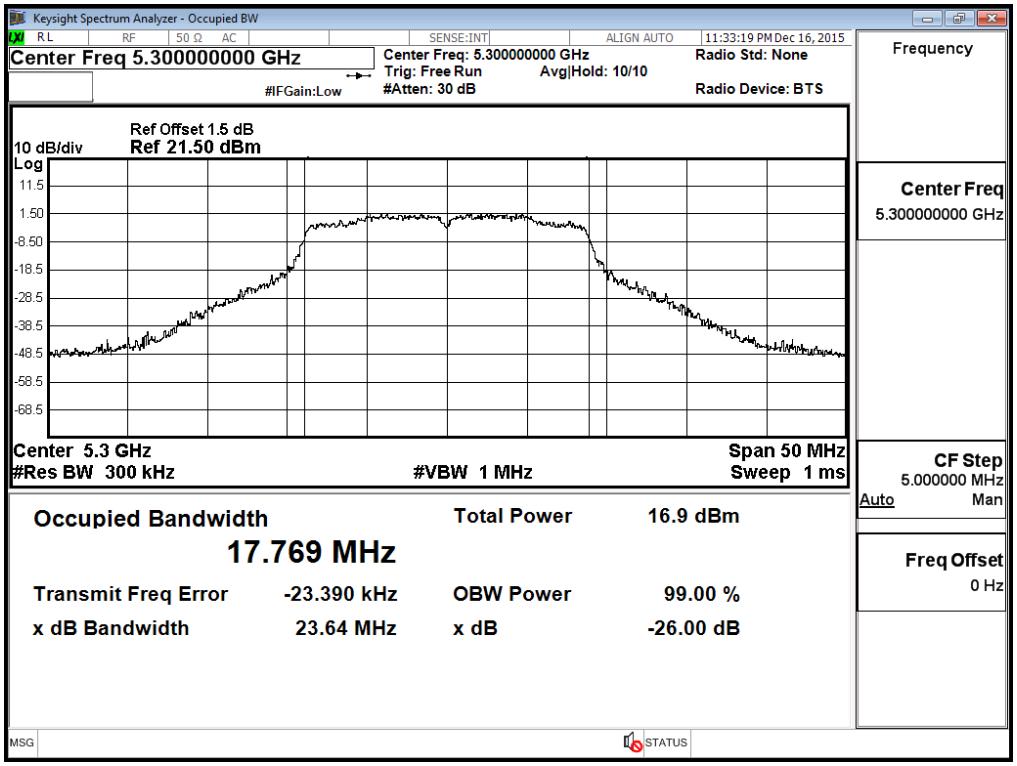
Channel 48:



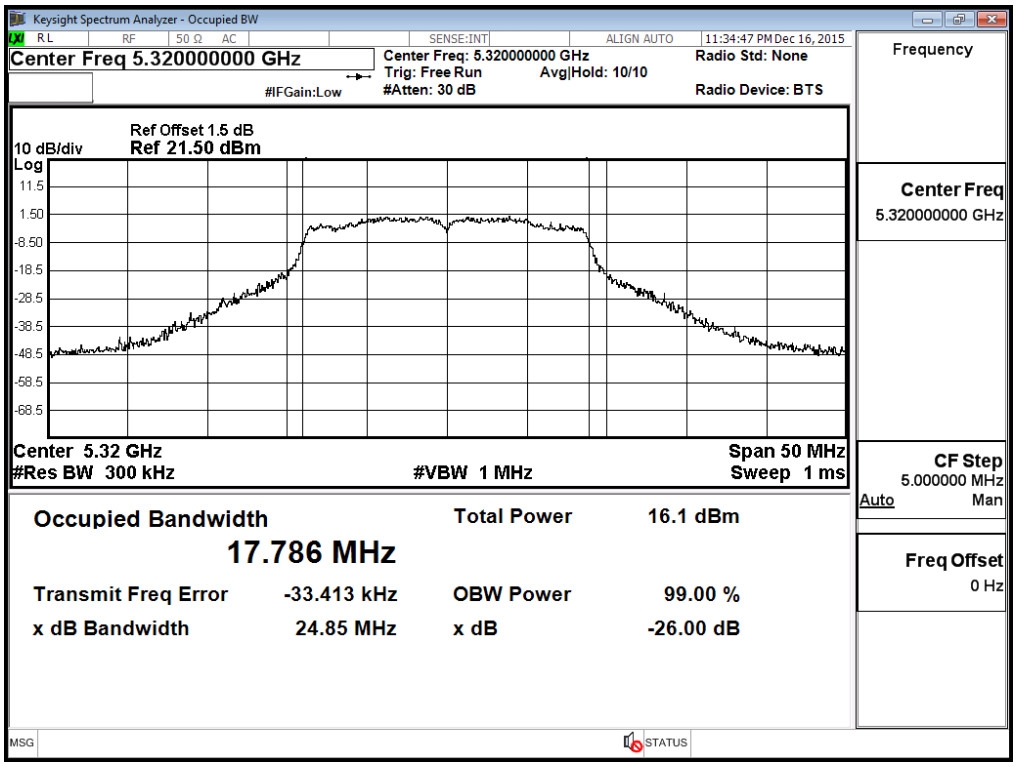
Channel 52:



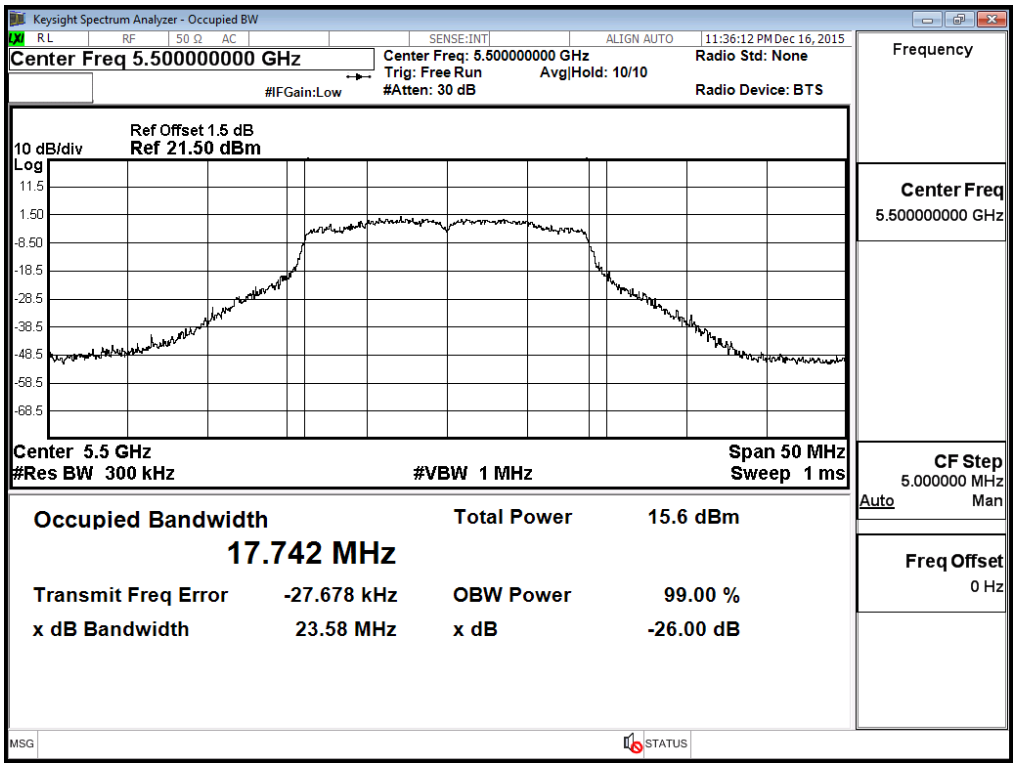
Channel 60:



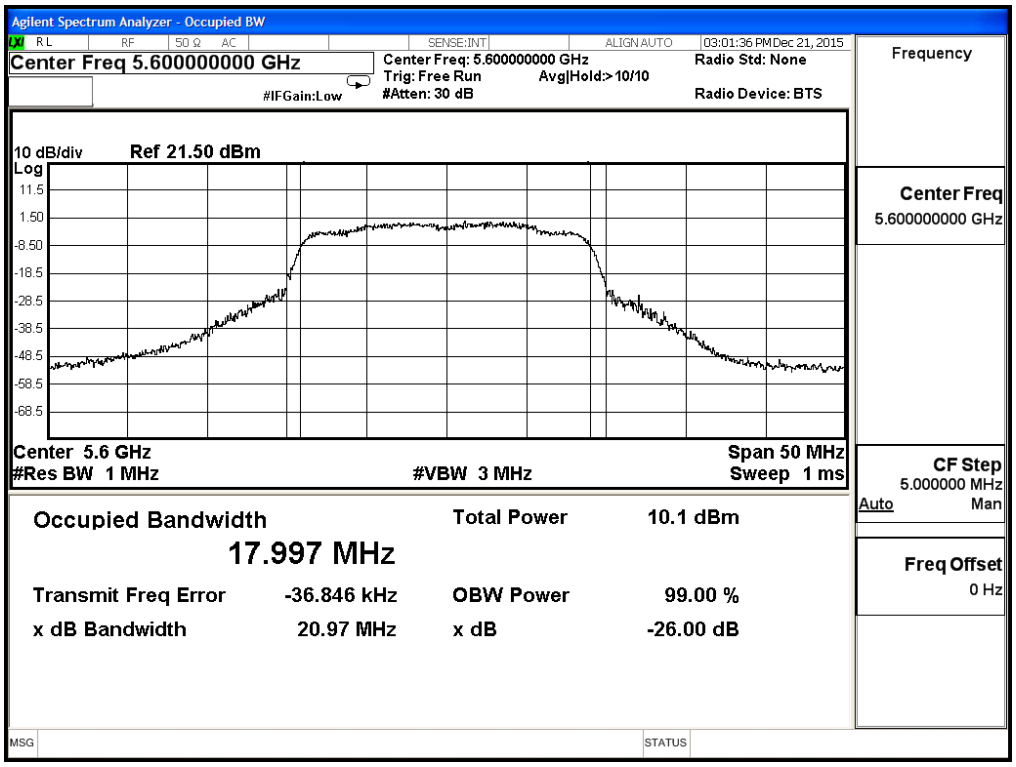
Channel 64:



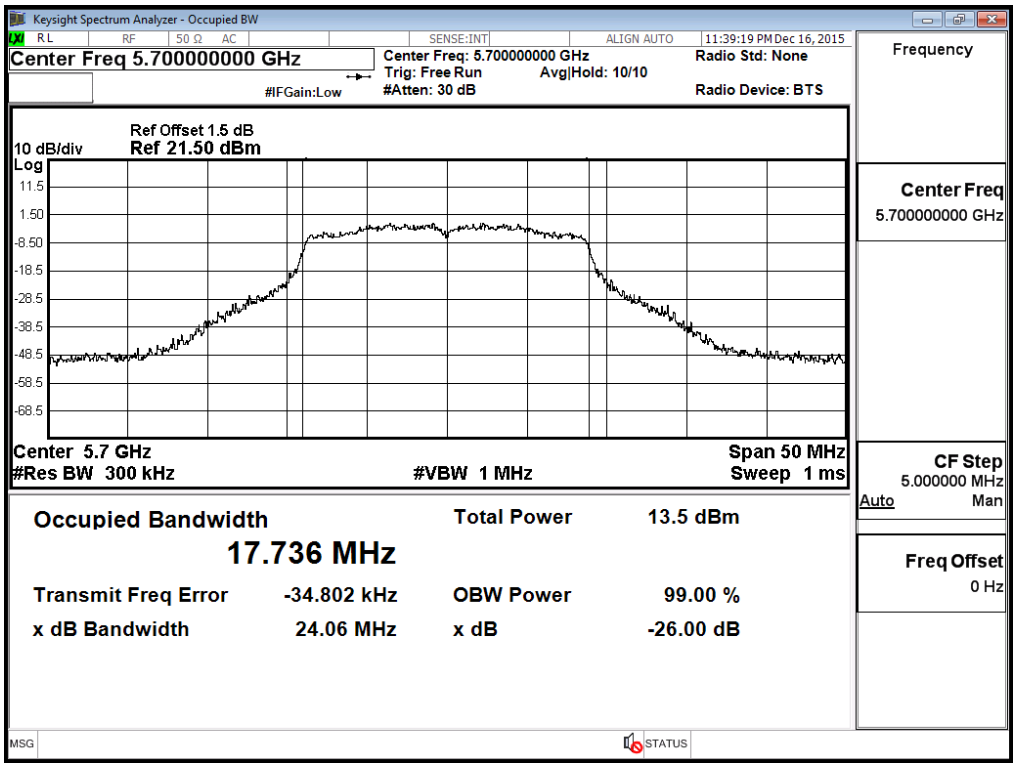
Channel 100:



Channel 120:



Channel 140:


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.700000000 GHz
Center Freq: 5.700000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
11:39:19 PM Dec 16, 2015
Frequency
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
Center Freq
5.700000000 GHz
Center 5.7 GHz
#Res BW 300 kHz
#VBW 1 MHz
Span 50 MHz
Sweep 1 ms
CF Step
5.000000 MHz
Auto
Man
Occupied Bandwidth
17.736 MHz
Total Power 13.5 dBm
Transmit Freq Error -34.802 kHz
OBW Power 99.00 %
x dB Bandwidth 24.06 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	12.19	12.16	12.14	12.11	12.08	12.06	12.04	12.01	<17dBm
46	5230	11.93	--	--	--	--	--	--	--	<17dBm
54	5270	11.24	11.21	11.19	11.17	11.14	11.12	11.09	11.07	<24dBm
62	5310	10.97	--	--	--	--	--	--	--	<24dBm
102	5510	10.72	--	--	--	--	--	--	--	<24dBm
118	5590	10.71	10.69	10.66	10.64	10.61	10.59	10.56	10.54	<24dBm
134	5670	8.83	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

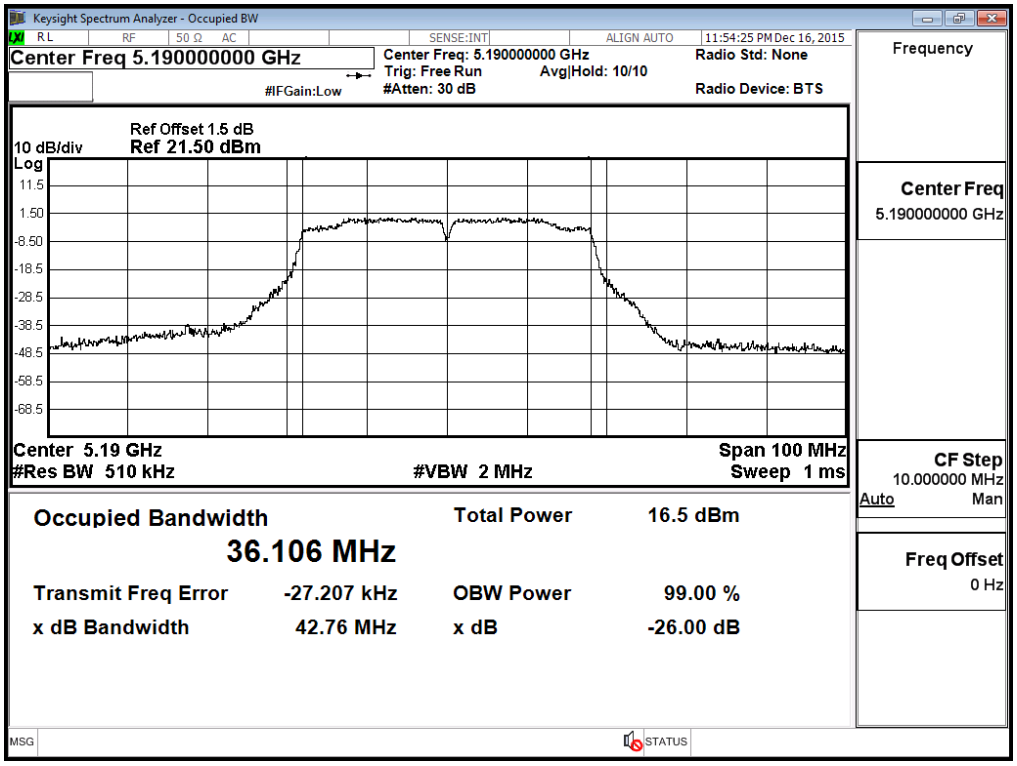
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	36.106	12.19	17	19.58
46	5230	36.072	11.93	17	19.57
54	5270	36.111	11.24	24	26.58
62	5310	36.123	10.97	24	26.58
102	5510	36.111	10.72	24	26.58
118	5590	36.187	10.71	24	26.59
134	5670	36.116	8.83	24	26.58

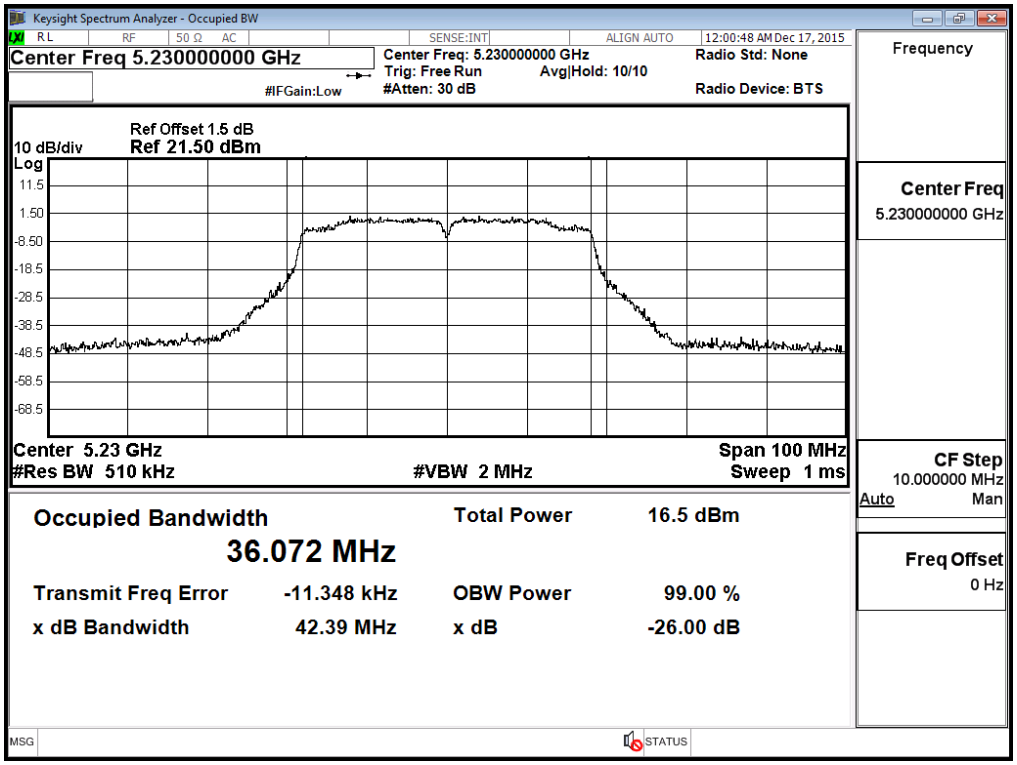
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

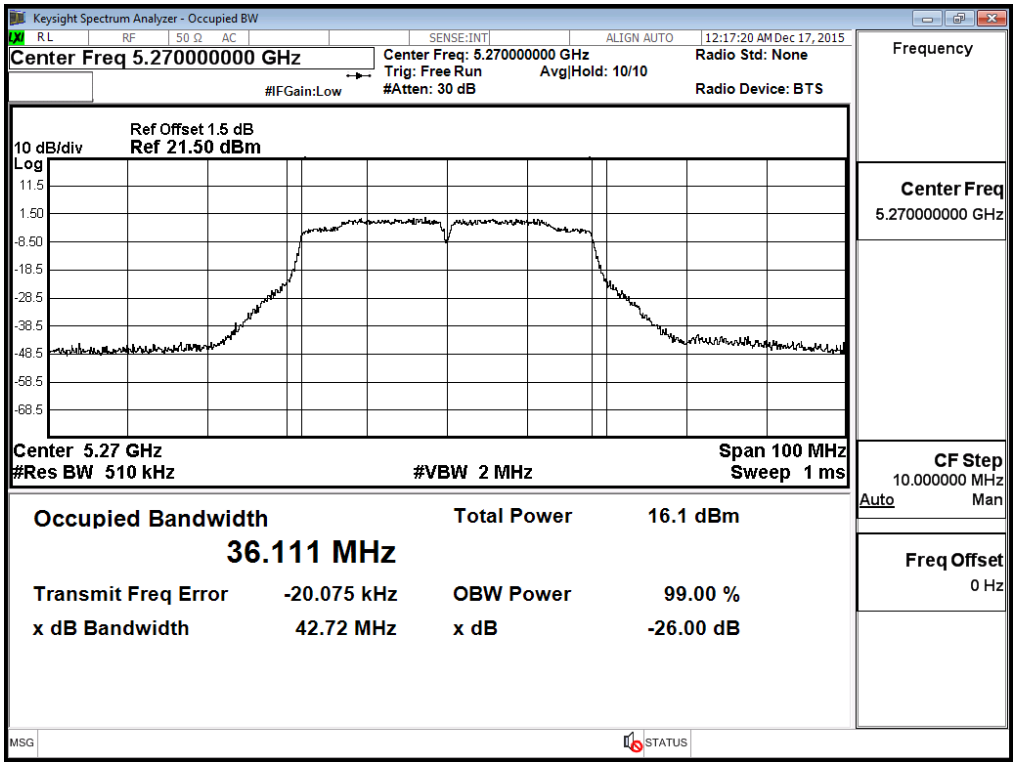
26dBc Occupied Bandwidth:
Channel 38



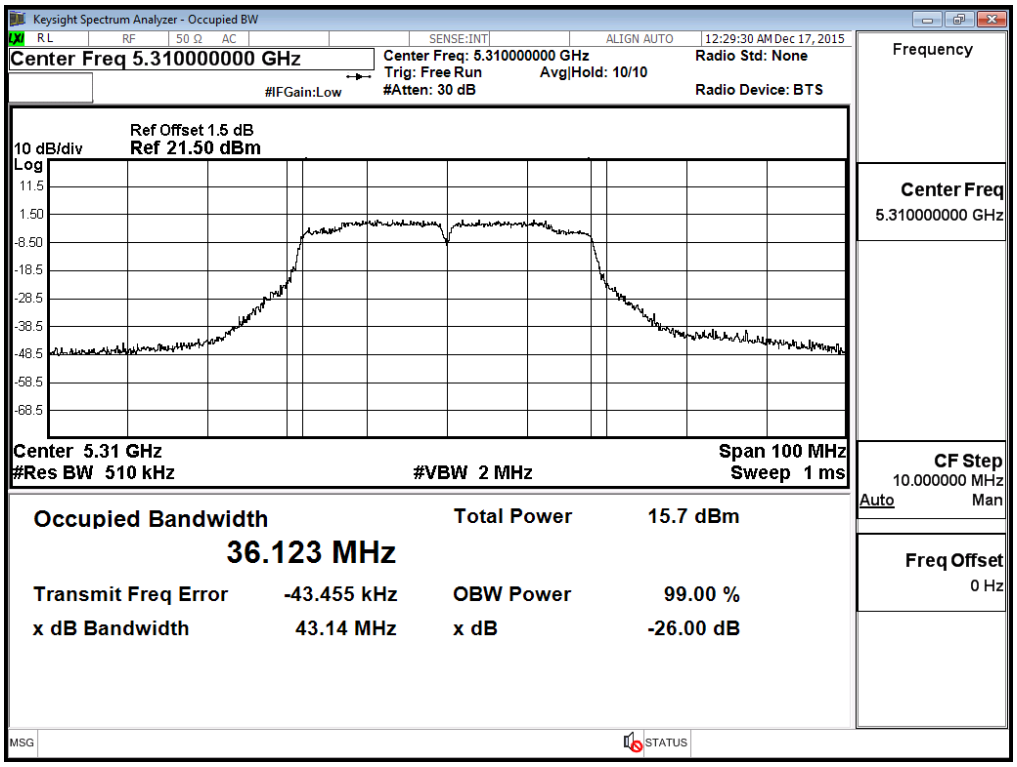
Channel 46



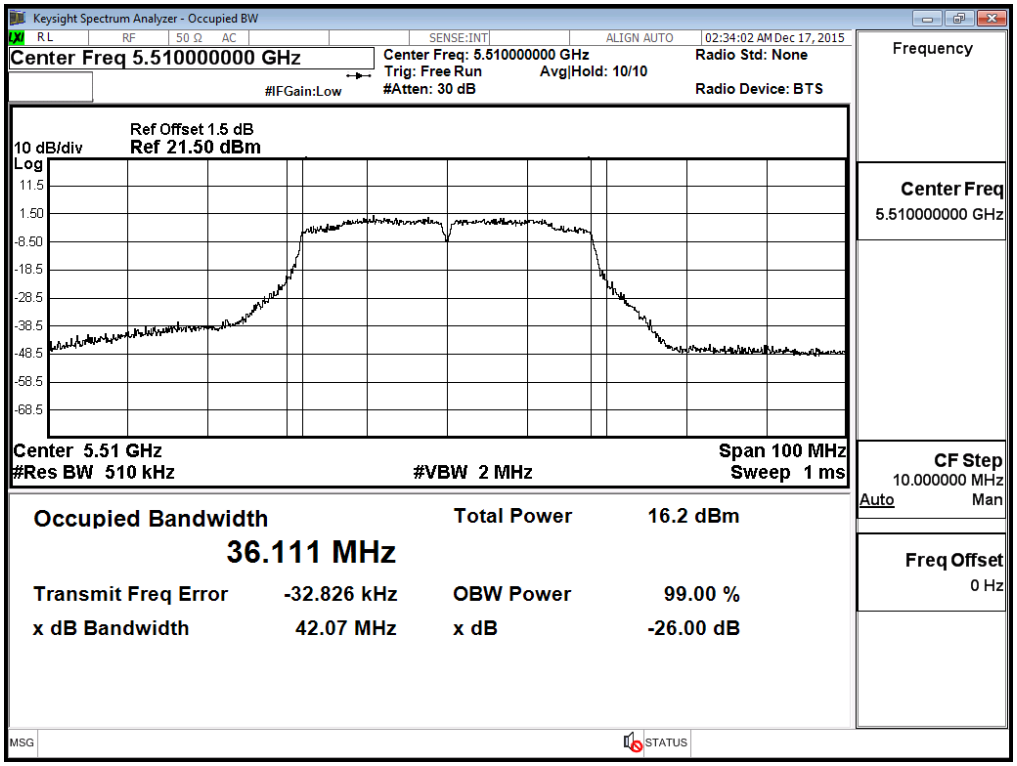
Channel 54



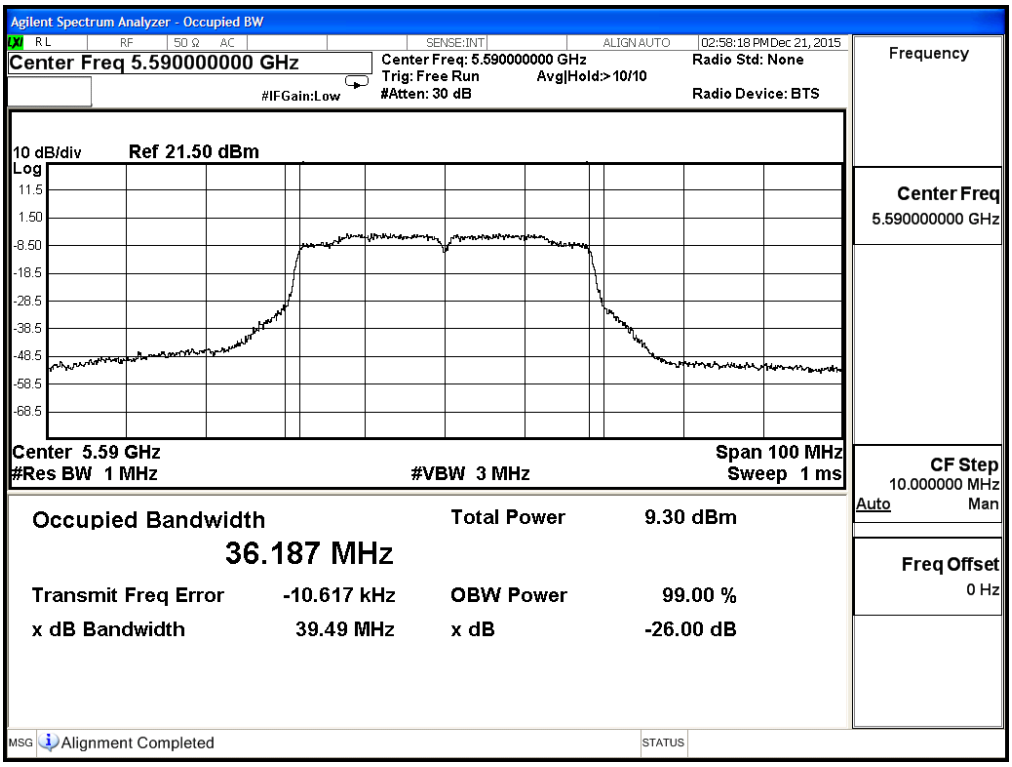
Channel 62



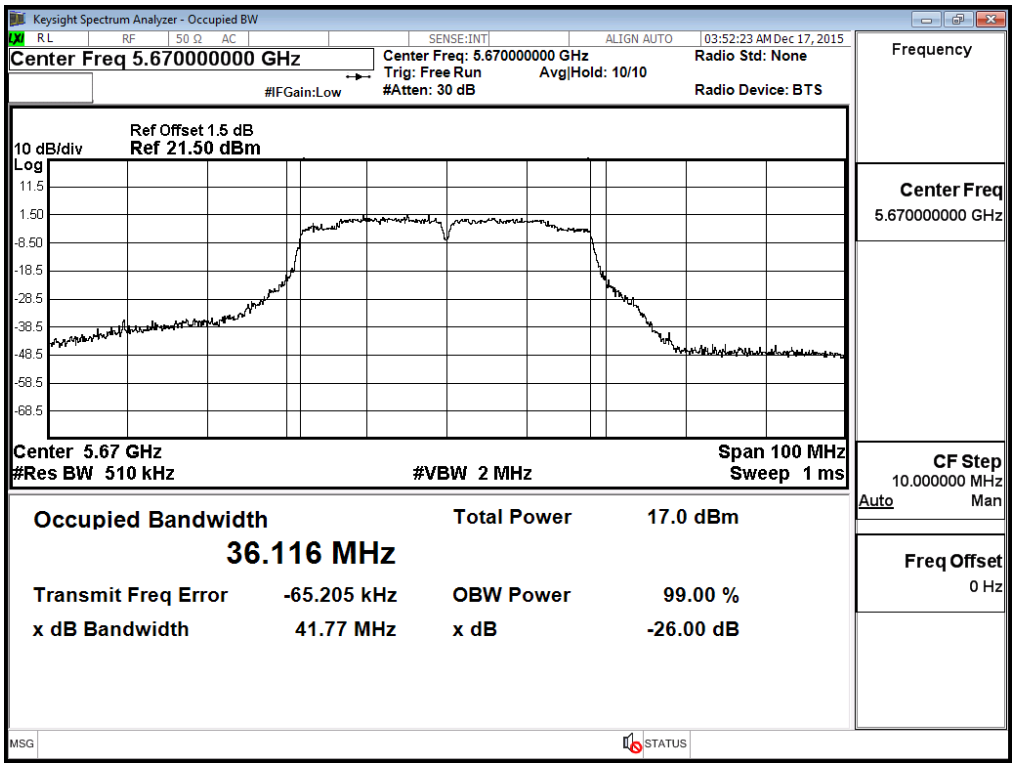
Channel 102



Channel 118



Channel 134


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.670000000 GHz
Center Freq: 5.670000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.67 GHz
#Res BW 510 kHz
#VBW 2 MHz
Span 100 MHz
Sweep 1 ms
Occupied Bandwidth
36.116 MHz
Total Power 17.0 dBm
Transmit Freq Error -65.205 kHz
OBW Power 99.00 %
x dB Bandwidth 41.77 MHz
x dB -26.00 dB
Frequency
Center Freq
5.670000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-20BW-7.2Mbps)

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	9.23	9.20	9.17	9.15	9.13	9.11	9.08	9.06	9.03	<24dBm
144 (Band4)	5720	2.24	2.21	2.19	2.16	2.14	2.11	2.09	2.06	2.04	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

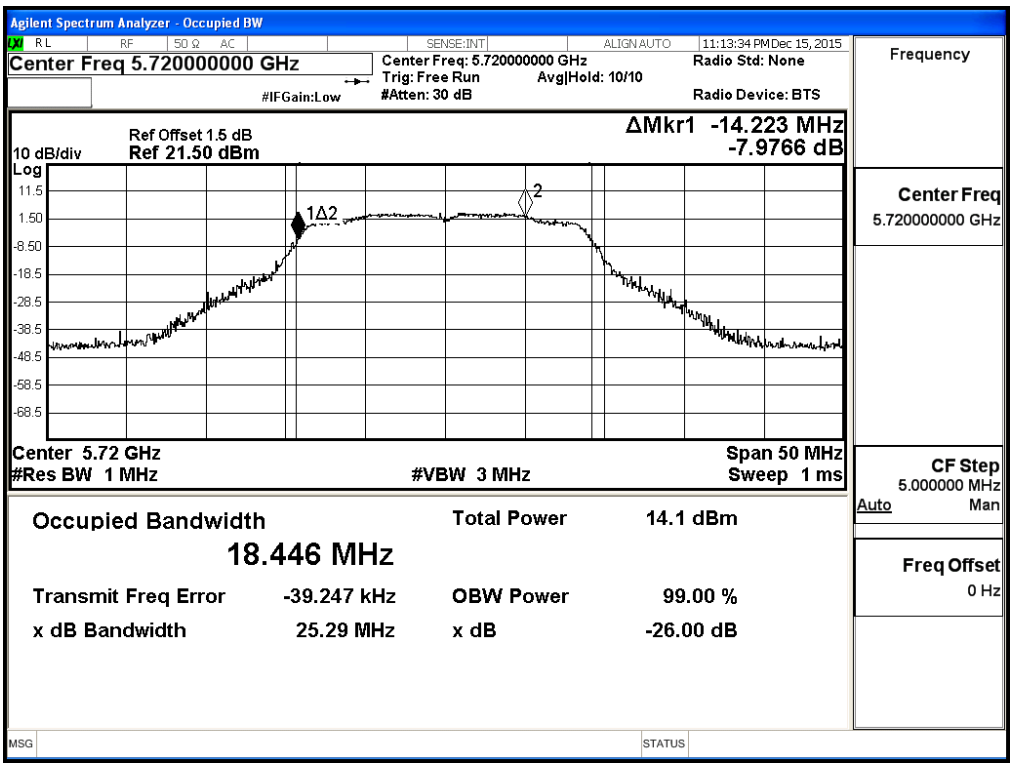
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.223	9.23	24	22.53	Pass
144(Band4)	5720	4.223	2.24	30	17.26	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

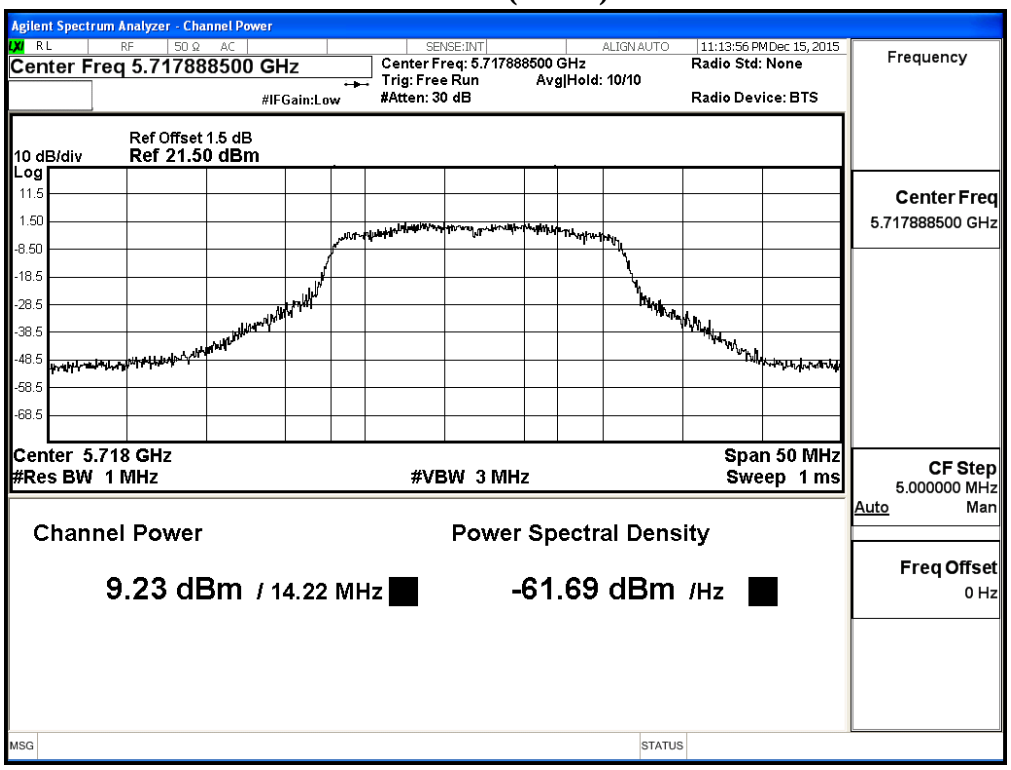
26dBc Occupied Bandwidth:

Channel 144

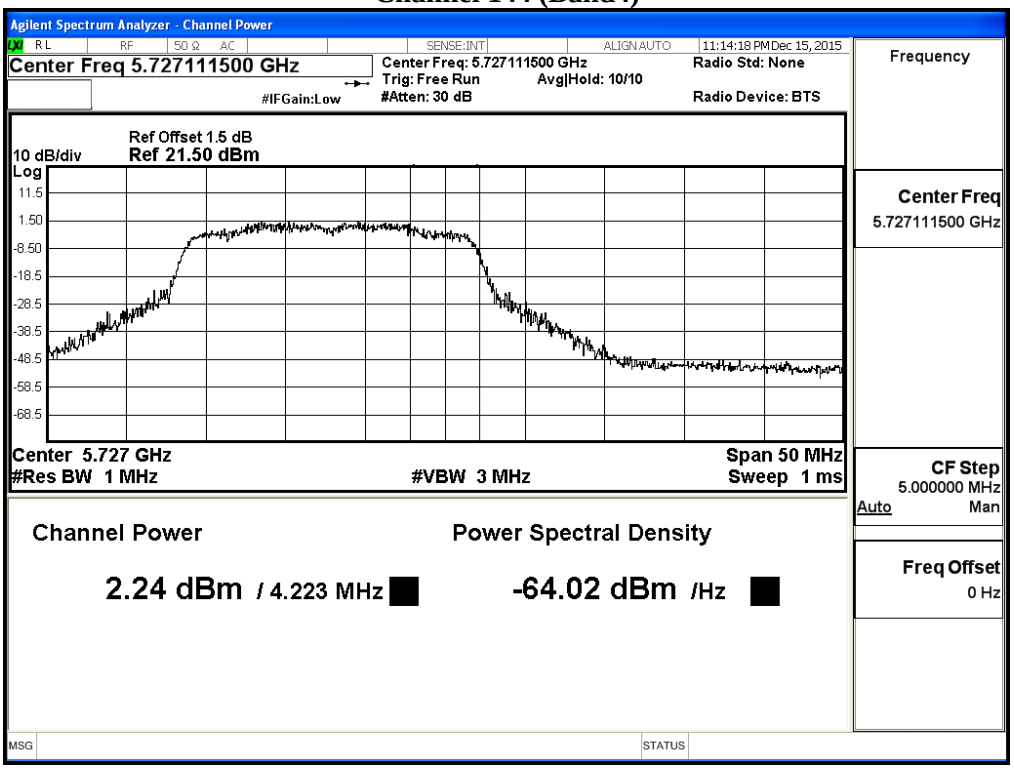


Maximum conducted output power:

Channel 144 (Band3)



Channel 144 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-40BW-15Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	9.11	9.09	9.07	9.04	9.01	8.98	8.96	8.94	8.91	8.87	<24dBm
142F(Band4)	5710	-4.02	-4.04	-4.06	-4.09	-4.12	-4.14	-4.17	-4.20	-4.22	-4.25	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

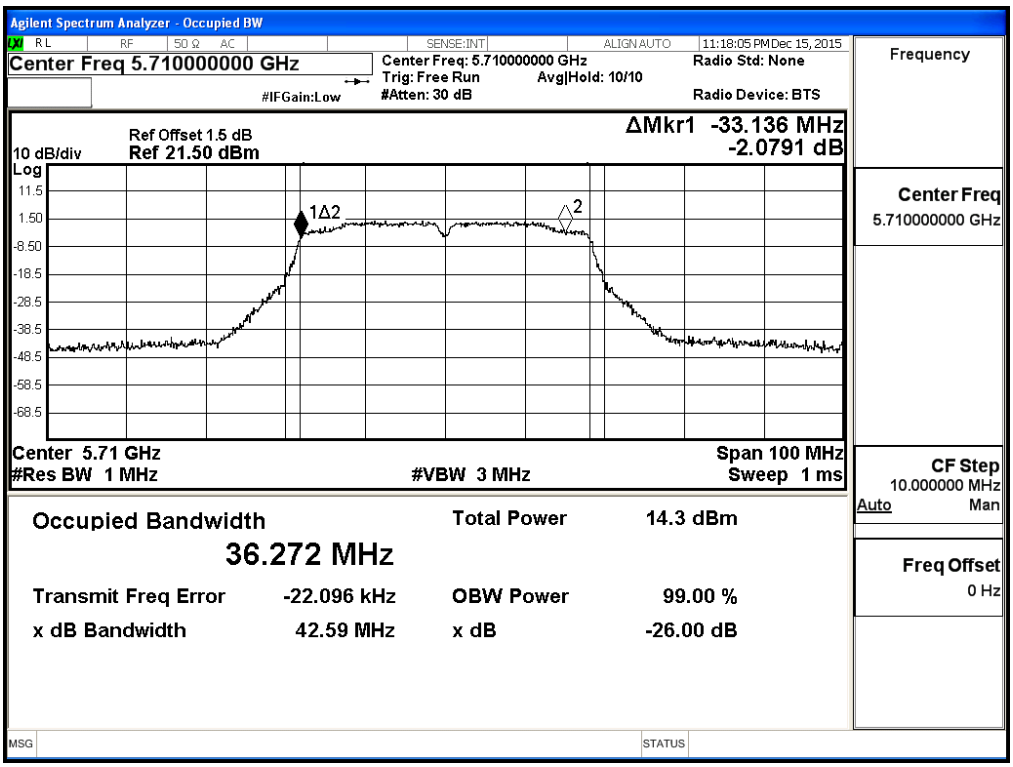
Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.136	9.11	24	26.20	Pass
142F(Band4)	5710	3.136	-4.02	30	15.96	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

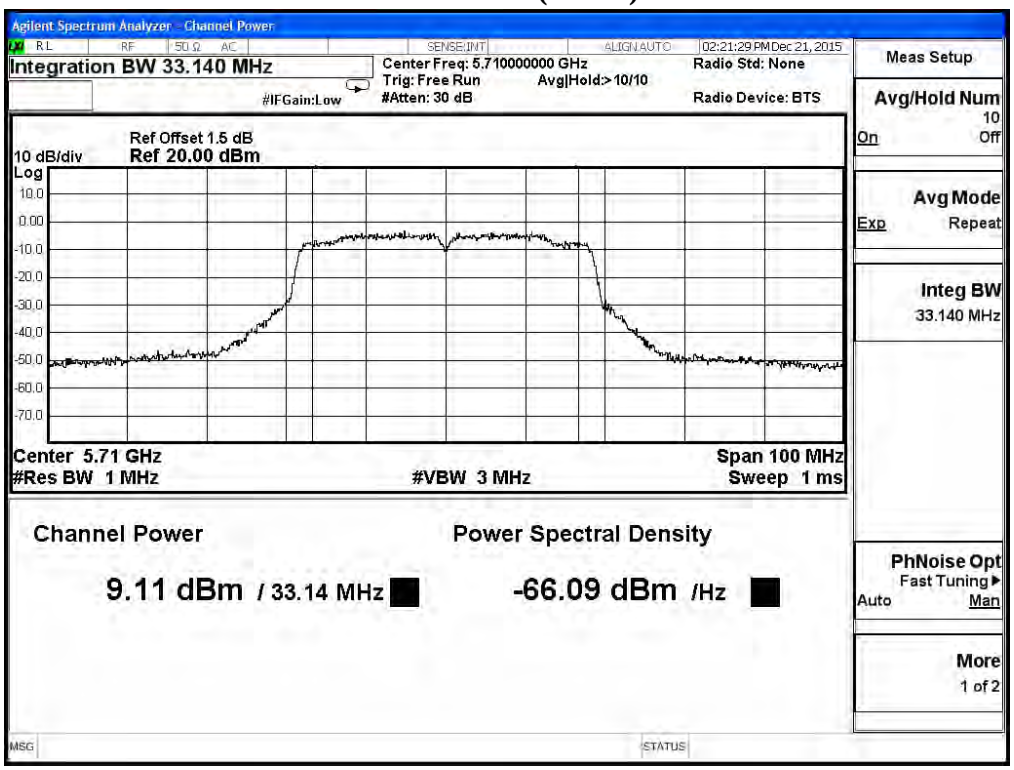
26dBc Occupied Bandwidth:

Channel 142

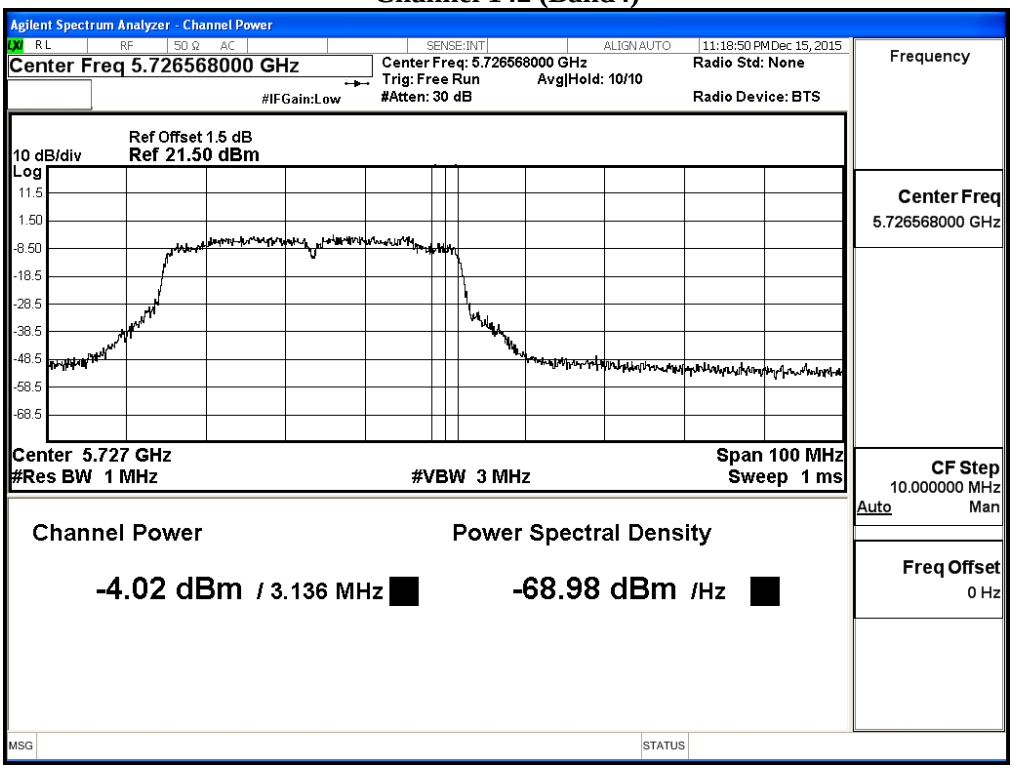


Maximum conducted output power:

Channel 142 (Band3)



Channel 142 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	11.81	11.79	11.76	11.74	11.71	11.68	11.66	11.64	11.62	11.59	<24dBm
58	5290	11.00	10.98	10.95	10.92	10.90	10.87	10.84	10.82	10.79	10.77	<24dBm
106	5530	10.92	10.90	10.88	10.85	10.83	10.81	10.78	10.76	10.73	10.71	<24dBm
122	5610	9.00	8.87	8.84	8.82	8.79	8.77	8.74	8.72	8.69	8.67	<24dBm
138(Band3)	5690	8.78	8.75	8.73	8.71	8.68	8.66	8.64	8.61	8.59	8.56	<24dBm
138(Band4)	5690	-5.14	-5.17	-5.19	-5.22	-5.25	-5.27	-5.30	-5.32	-5.35	-5.37	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

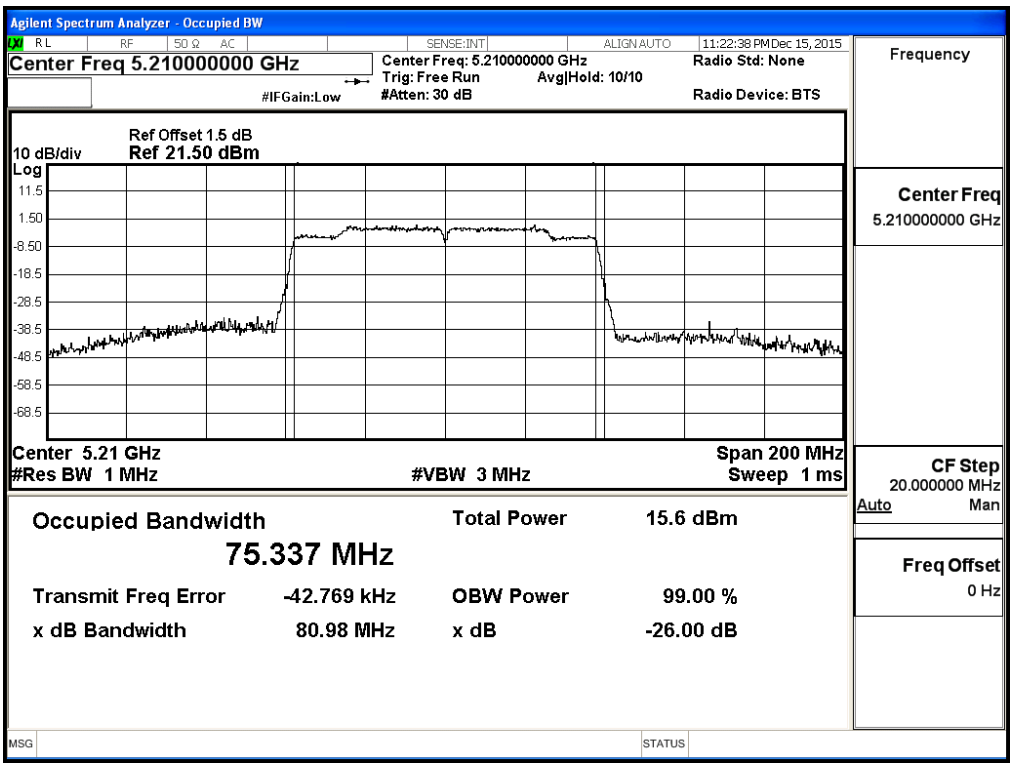
Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	75.337	11.81	17	29.77	Pass
58	5290	75.580	11.00	17	29.78	Pass
106	5530	75.445	10.92	24	29.78	Pass
122	5610	75.514	9.00	24	29.78	Pass
138	5690	72.761	8.78	24	29.62	Pass
138ac80(Band4)	5690	2.761	-5.14	30	15.41	Pass

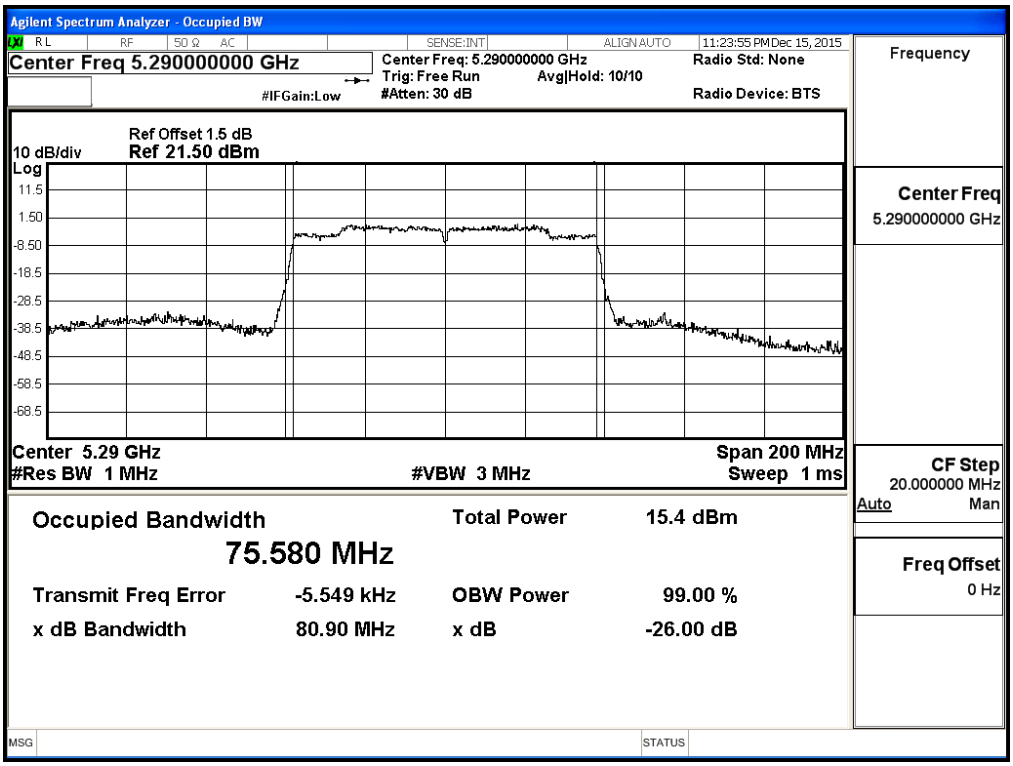
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:

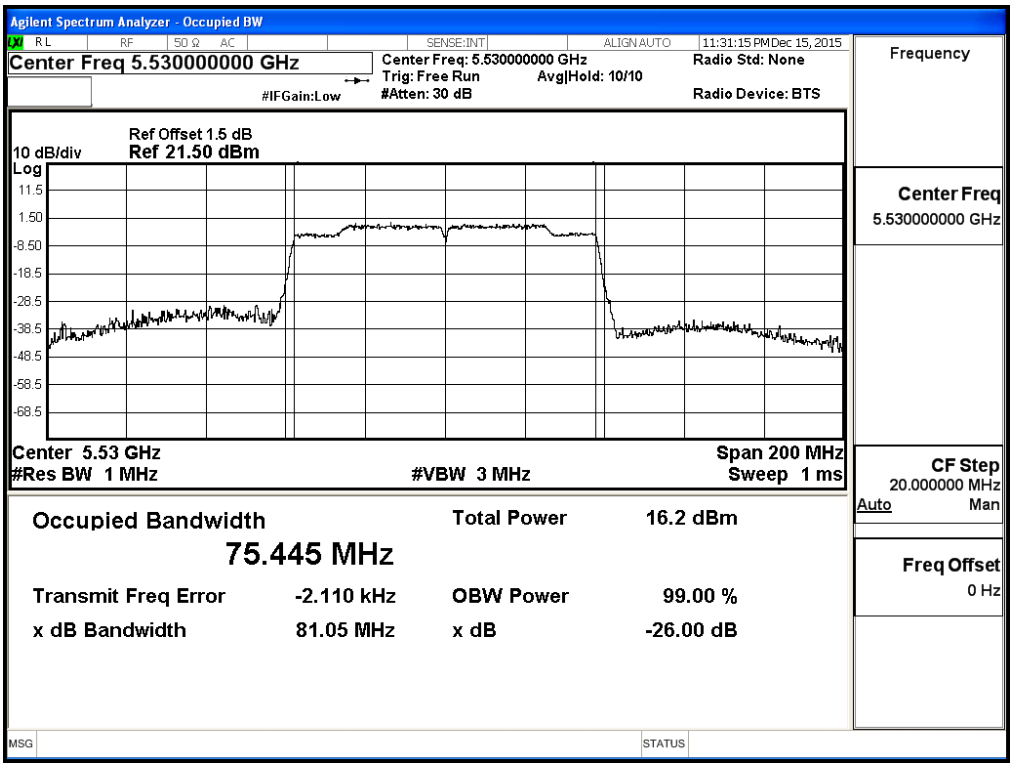
Channel 42



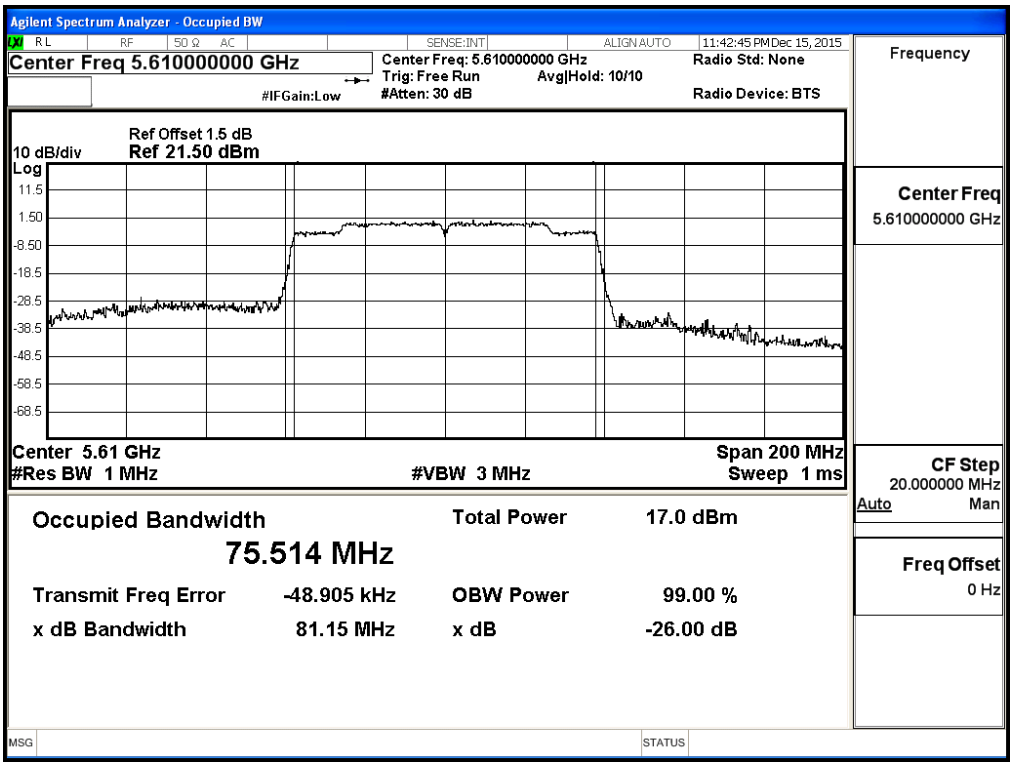
Channel 58



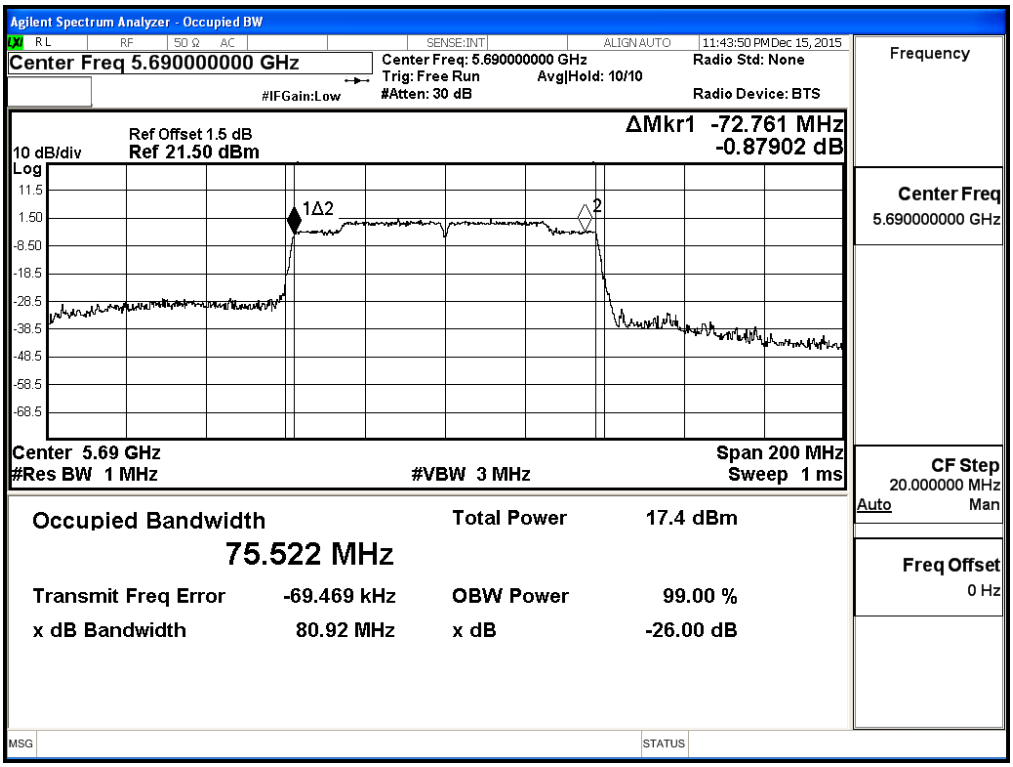
Channel 106



Channel 122

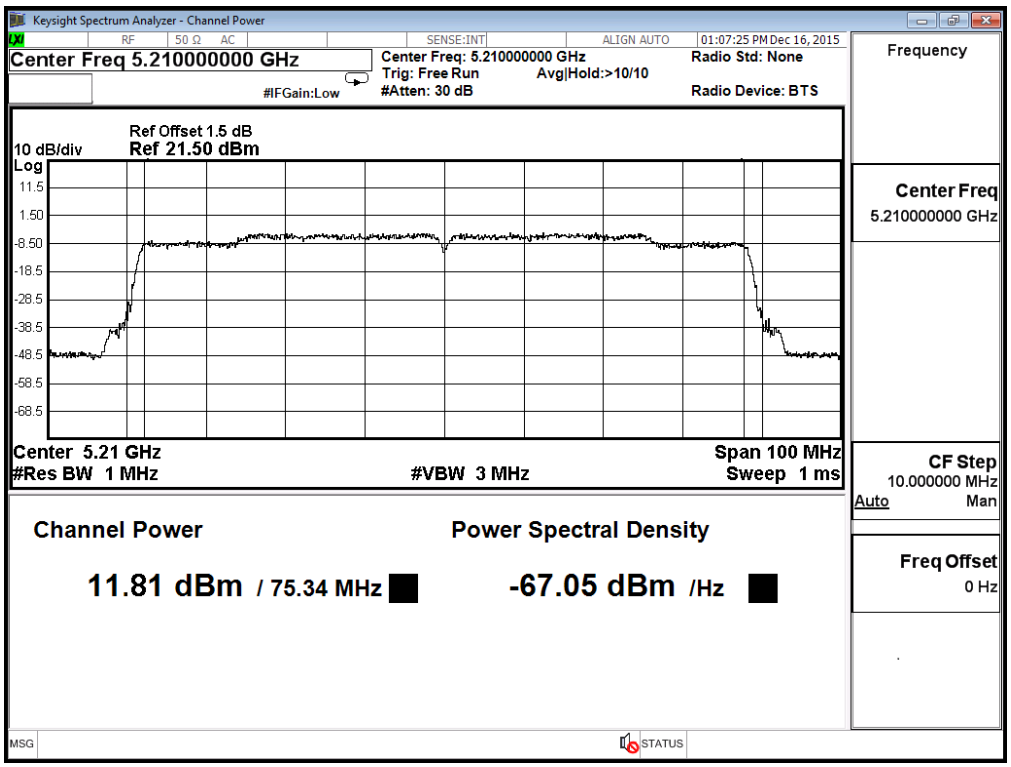


Channel 138


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.690000000 GHz
Center Freq: 5.690000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
11:43:50 PM Dec 15, 2015
Frequency
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
ΔMkr1 -72.761 MHz
-0.87902 dB
Center Freq
5.690000000 GHz
Center 5.69 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 200 MHz
Sweep 1 ms
CF Step
20.000000 MHz
Auto
Man
Occupied Bandwidth
75.522 MHz
Total Power 17.4 dBm
Transmit Freq Error -69.469 kHz
OBW Power 99.00 %
x dB Bandwidth 80.92 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

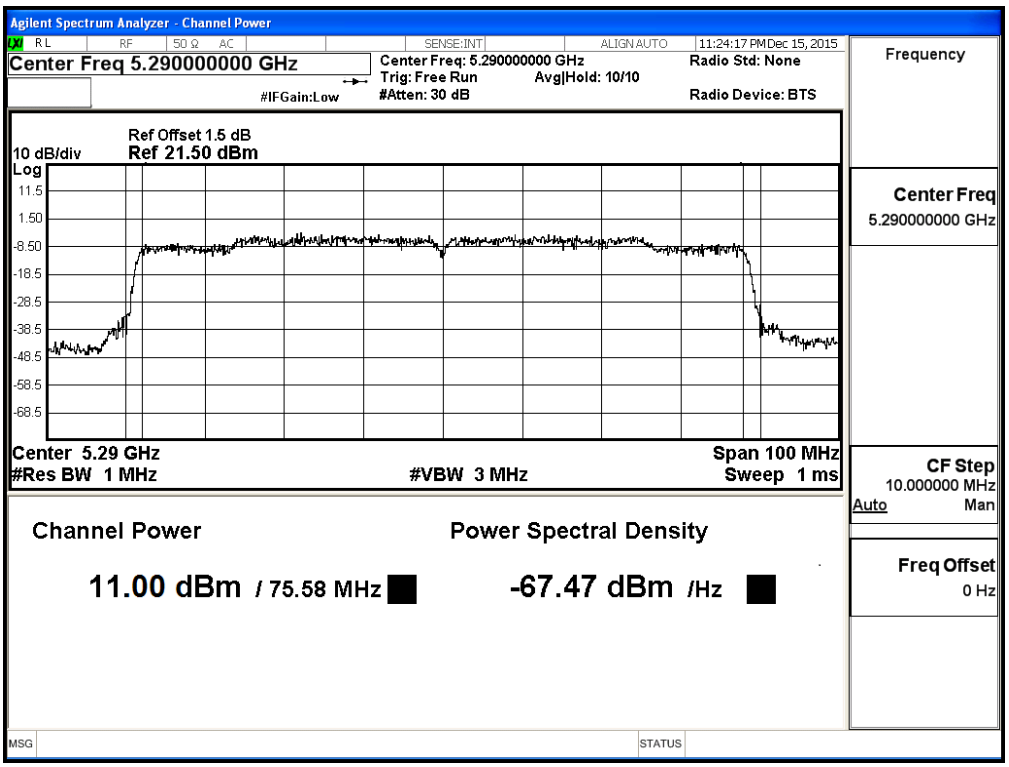
Maximum conducted output power:

Channel 42



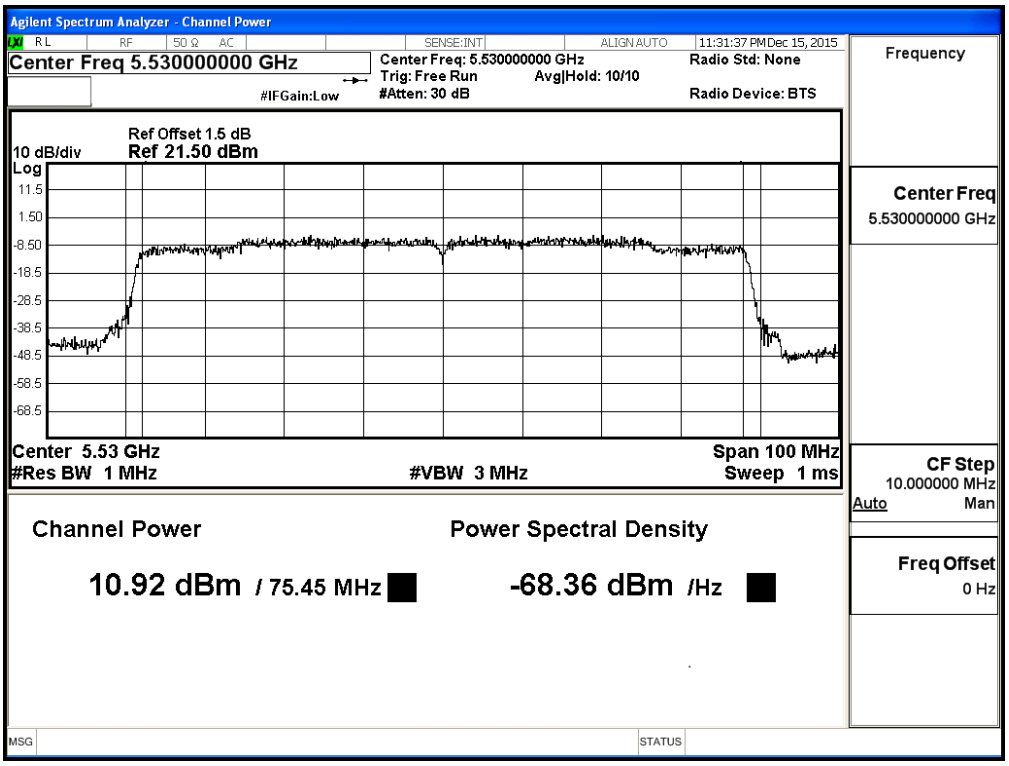
Maximum conducted output power:

Channel 58



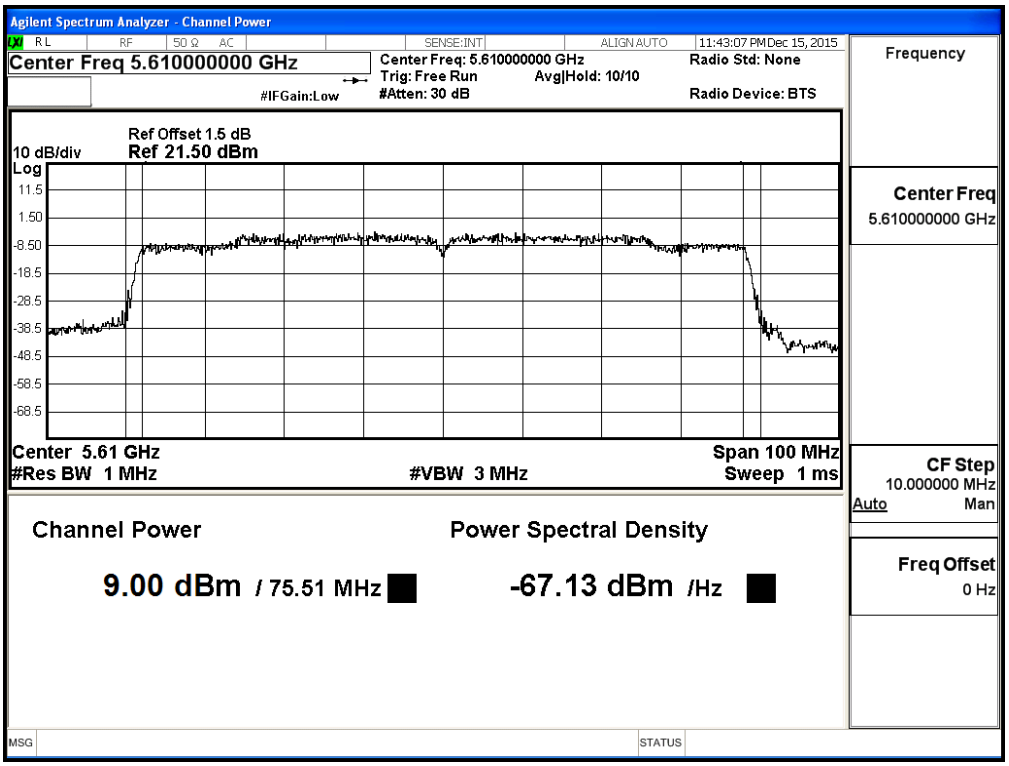
Maximum conducted output power:

Channel 106



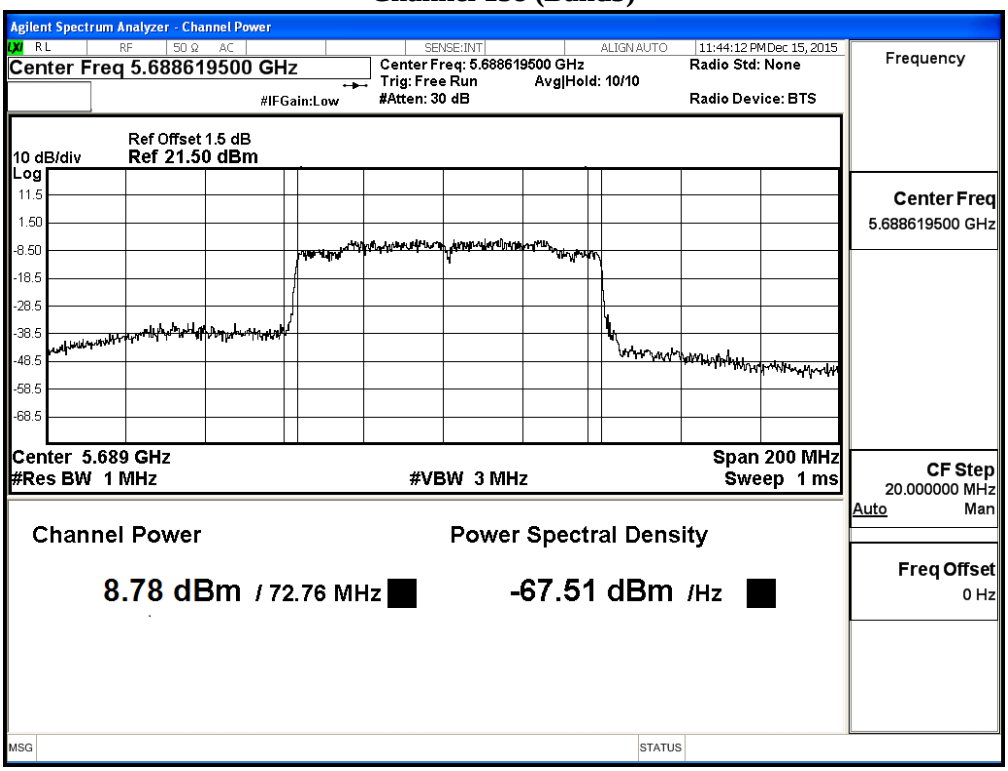
Maximum conducted output power:

Channel 122



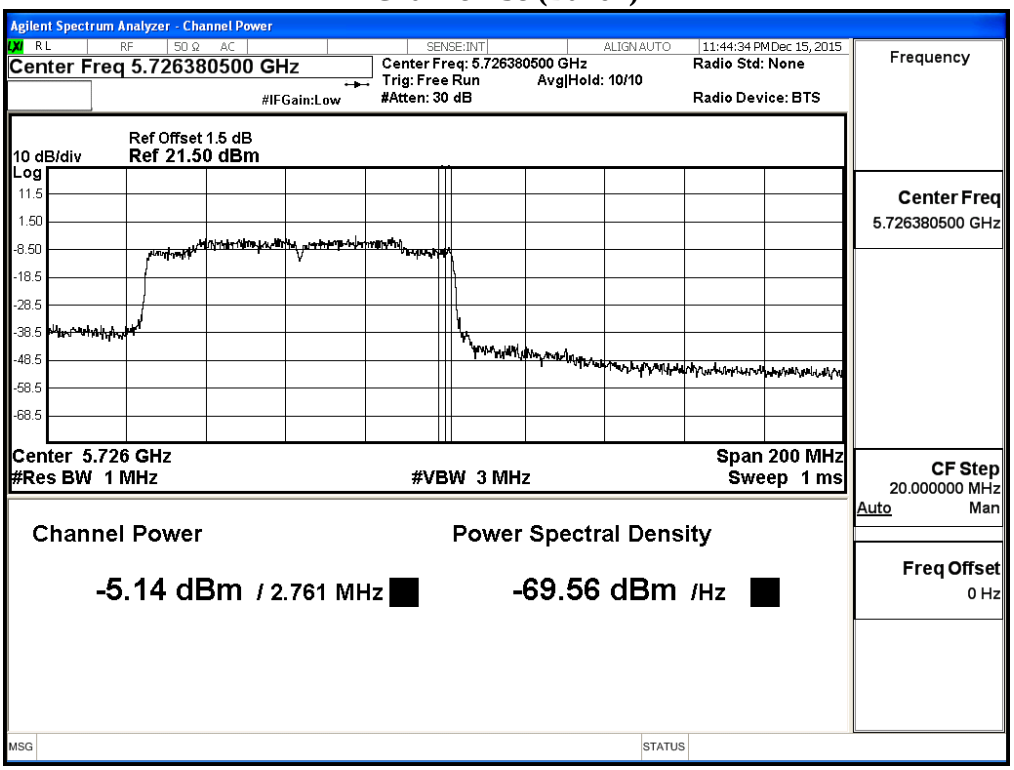
Maximum conducted output power:

Channel 138 (Band3)



Maximum conducted output power:

Channel 138 (Band4)



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps)

Chain A

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	10.39	--	--	--	--	--	--	--	<17dBm
44	5220	11.32	11.29	11.27	11.24	11.22	11.19	11.17	11.14	<17dBm
48	5240	11.38	--	--	--	--	--	--	--	<17dBm
52	5260	11.95	--	--	--	--	--	--	--	<24dBm
60	5300	11.01	10.98	10.95	10.93	10.91	10.88	10.85	10.83	<24dBm
64	5320	10.57	--	--	--	--	--	--	--	<24dBm
100	5500	10.48	--	--	--	--	--	--	--	<24dBm
120	5600	10.73	10.7	10.68	10.65	10.62	10.59	10.57	10.53	<24dBm
140	5700	11.06	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	10.98	--	--	--	--	--	--	--	<17dBm
44	5220	10.84	10.81	10.79	10.77	10.74	10.71	10.69	10.66	<17dBm
48	5240	11.48	--	--	--	--	--	--	--	<17dBm
52	5260	11.78	--	--	--	--	--	--	--	<24dBm
60	5300	11.12	11.09	11.06	11.03	11.01	10.99	10.96	10.94	<24dBm
64	5320	10.44	--	--	--	--	--	--	--	<24dBm
100	5500	10.5	--	--	--	--	--	--	--	<24dBm
120	5600	11.23	11.2	11.17	11.15	11.13	11.11	11.08	11.05	<24dBm
140	5700	11.06	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

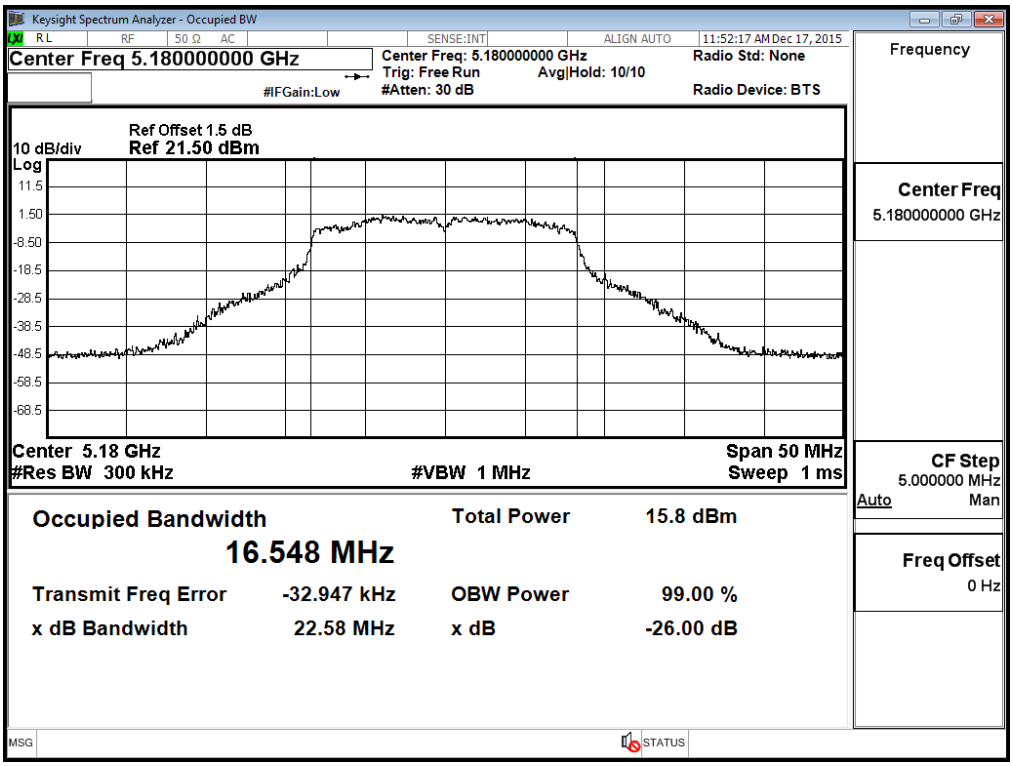
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	16.548	10.39	10.98	13.71	17	16.19
44	5220	16.504	11.32	10.84	14.10	17	16.18
48	5240	16.553	11.38	11.48	14.44	17	16.19
52	5260	16.513	11.95	11.78	14.88	24	23.18
60	5300	16.538	11.01	11.12	14.08	24	23.18
64	5320	16.591	10.57	10.44	13.52	24	23.20
100	5500	16.591	10.48	10.50	13.50	24	23.20
120	5600	18.008	10.73	11.23	14.00	24	23.55
140	5700	16.522	11.06	11.06	14.07	24	23.18

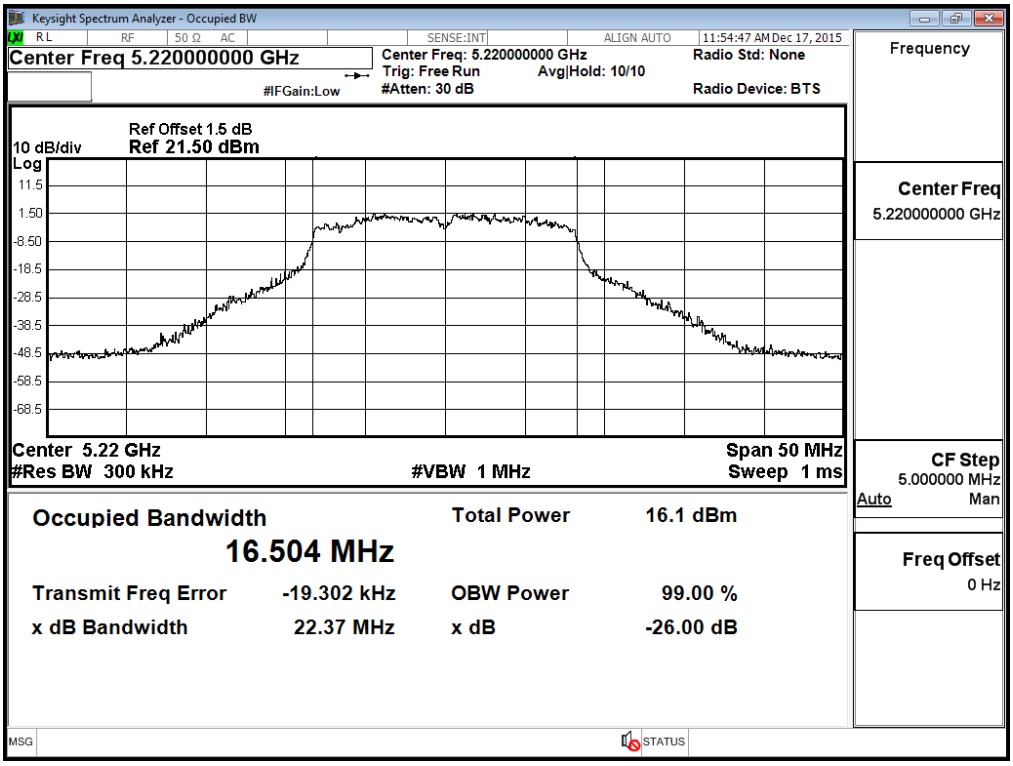
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

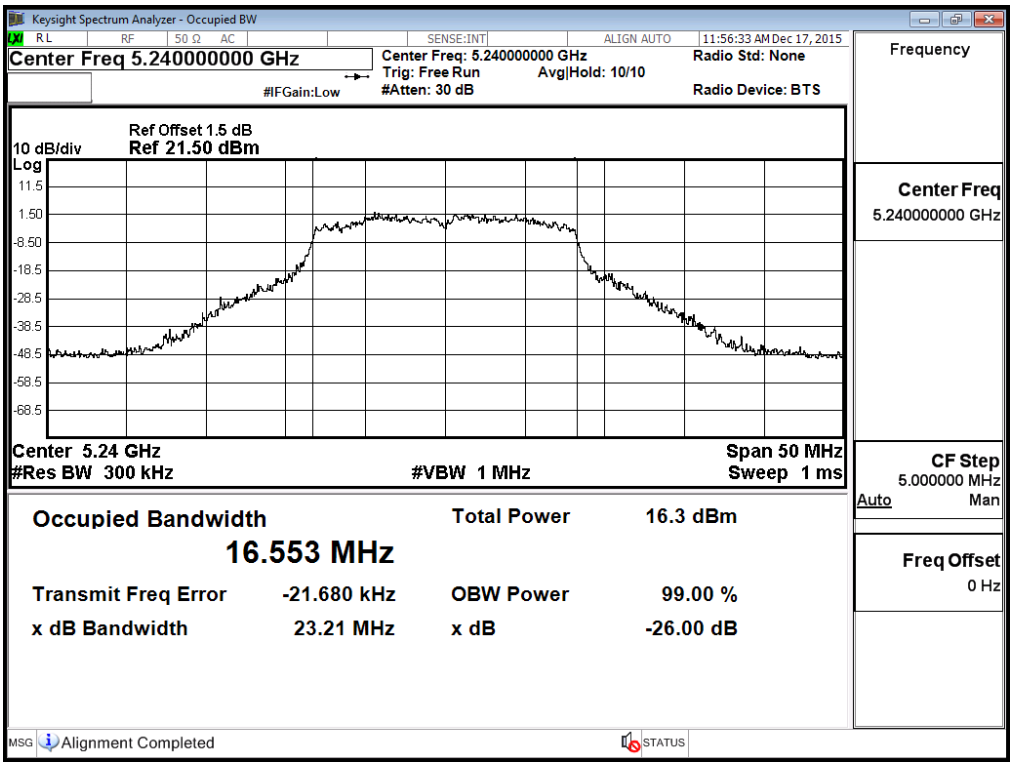
26dBc Occupied Bandwidth:
Channel 36 -Chain A



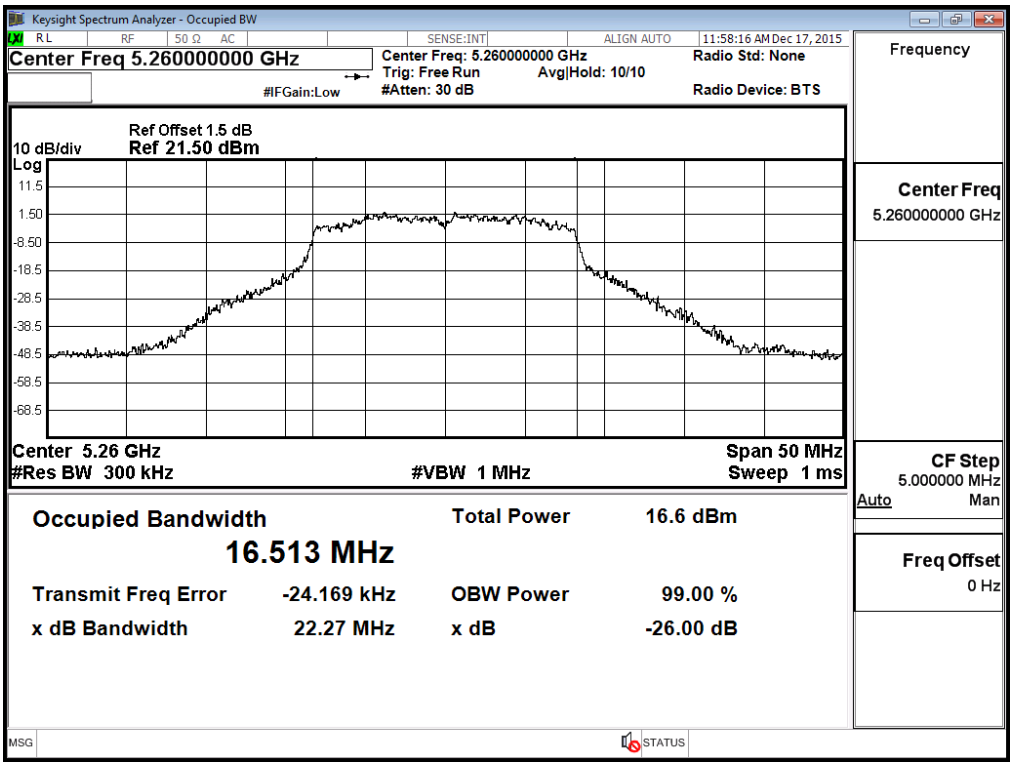
Channel 44 -Chain A



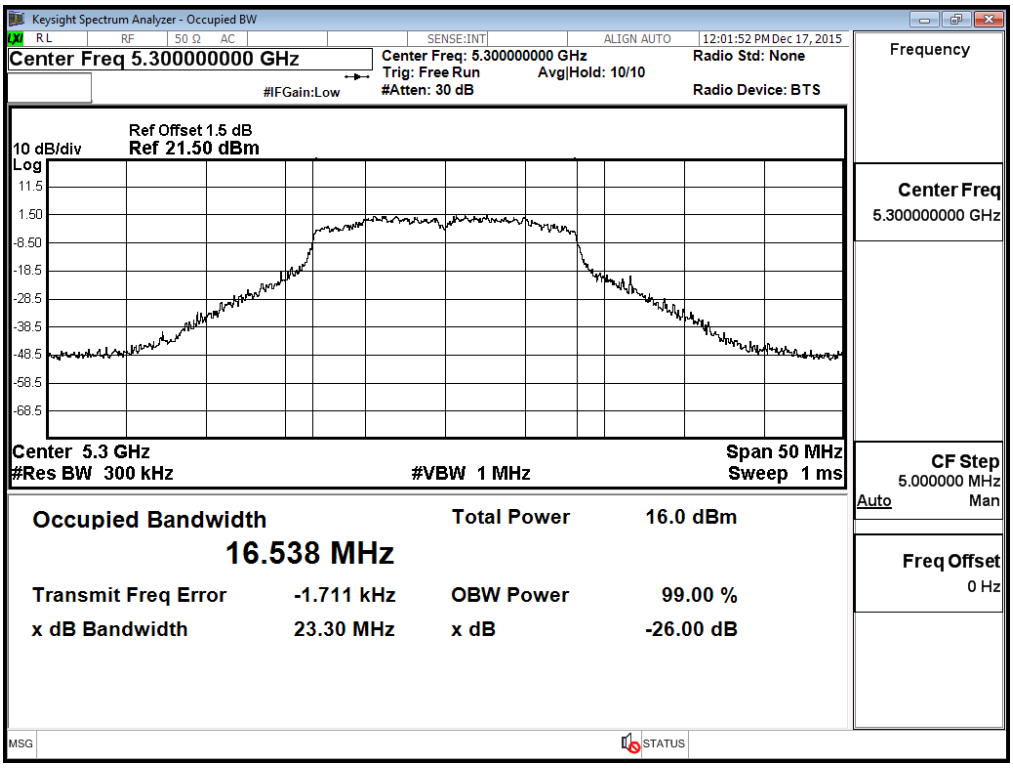
Channel 48 -Chain A



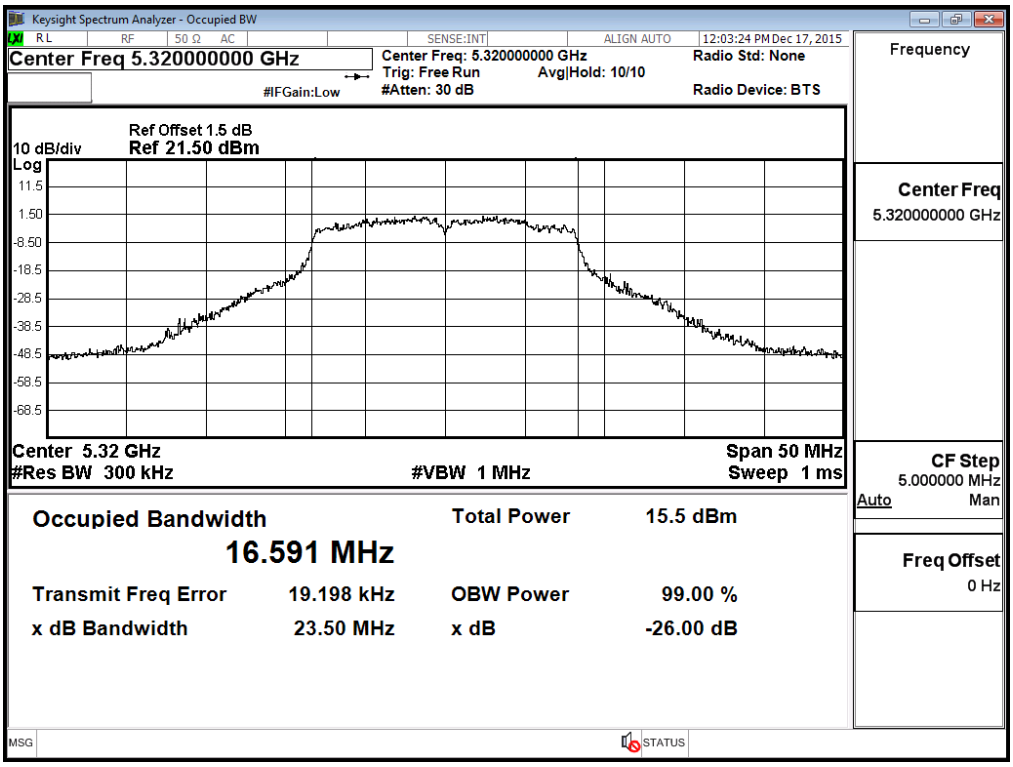
Channel 52 -Chain A



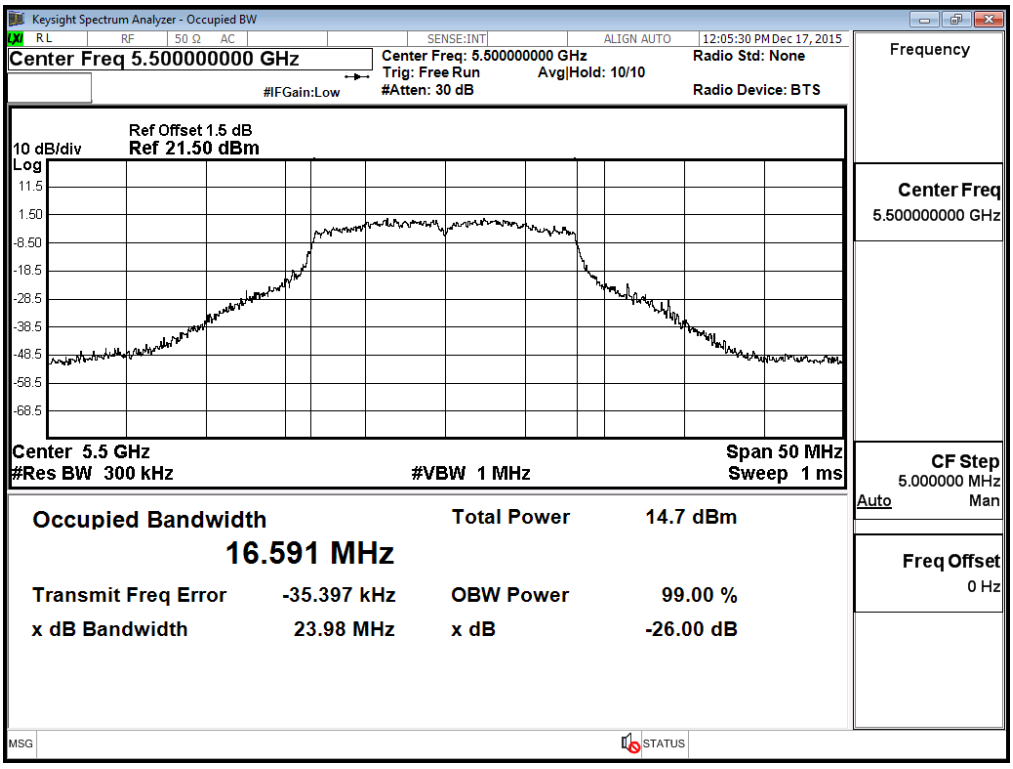
Channel 60 -Chain A



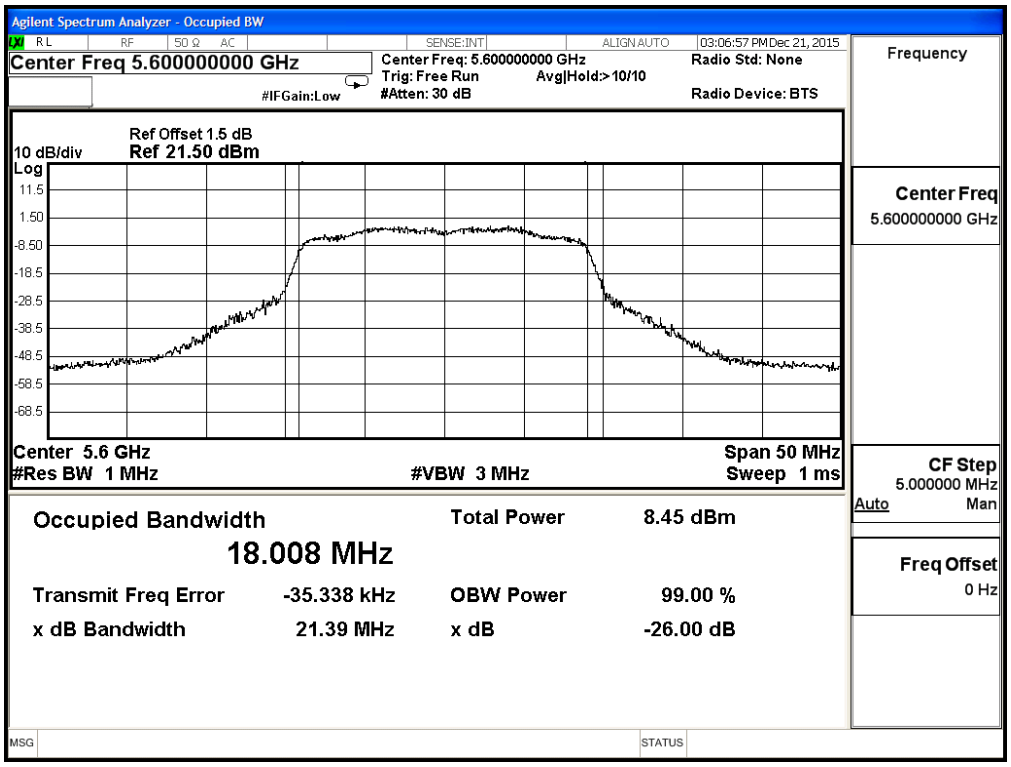
Channel 64 -Chain A



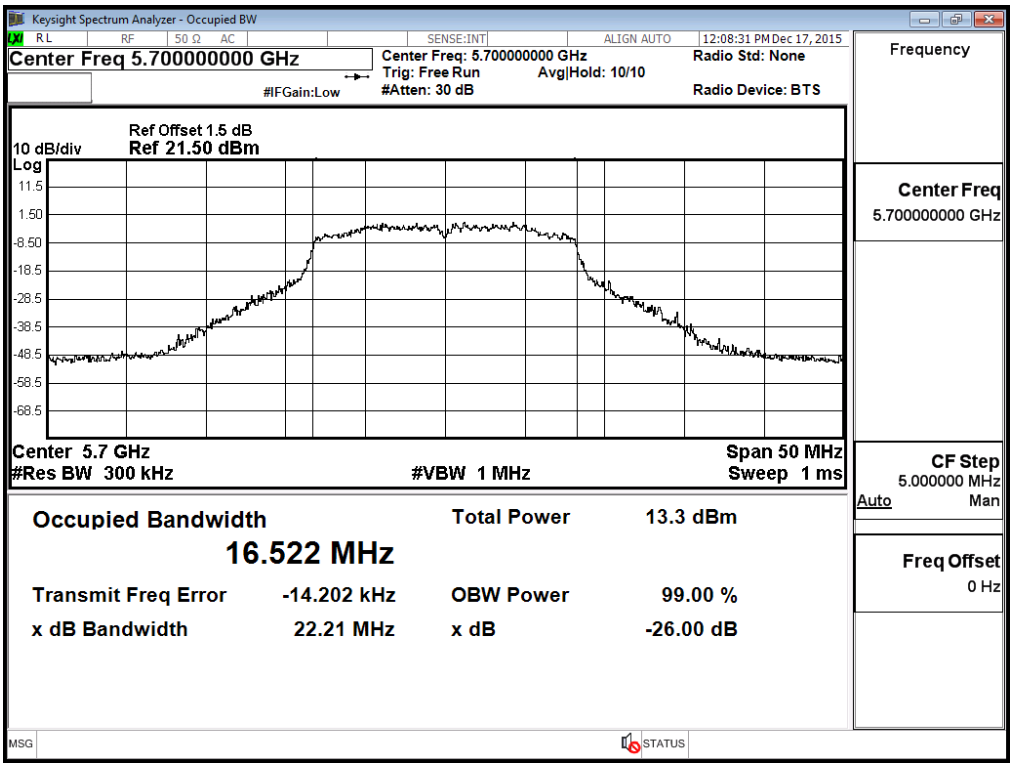
Channel 100 -Chain A



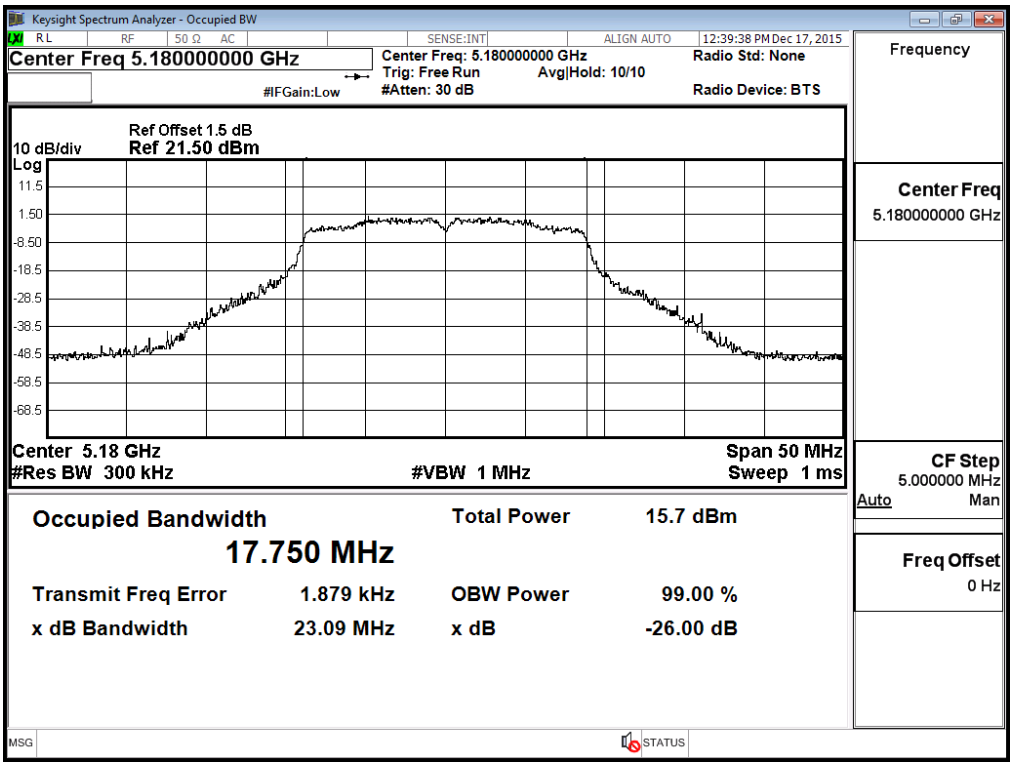
Channel 120 -Chain A



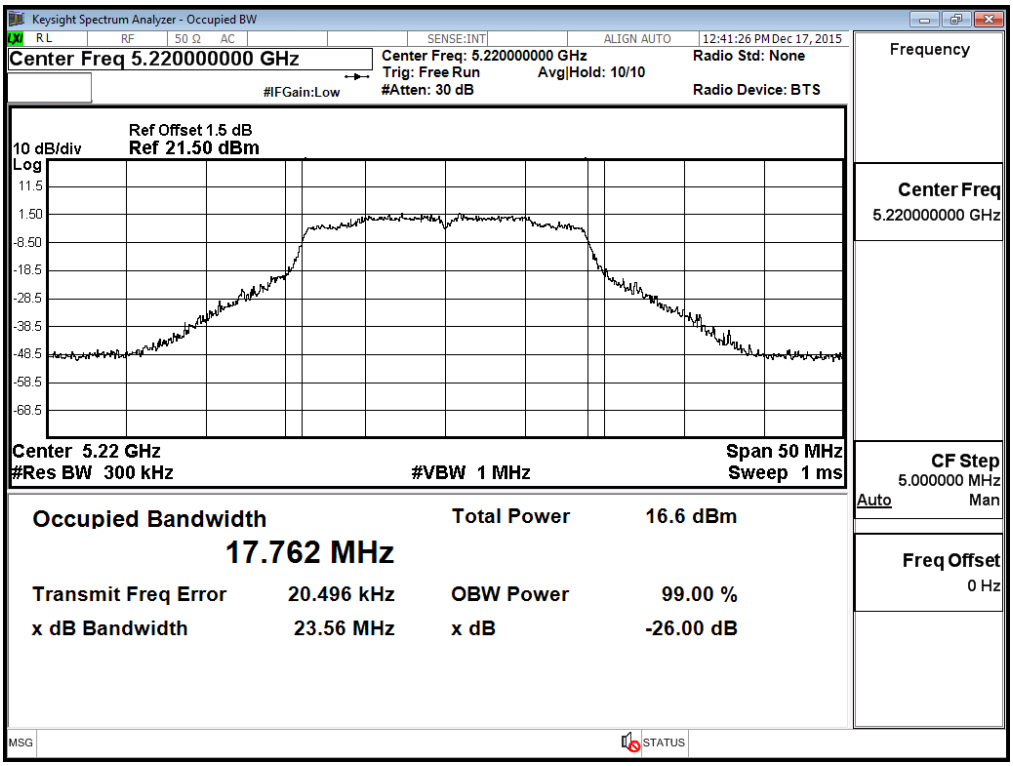
Channel 140 -Chain A



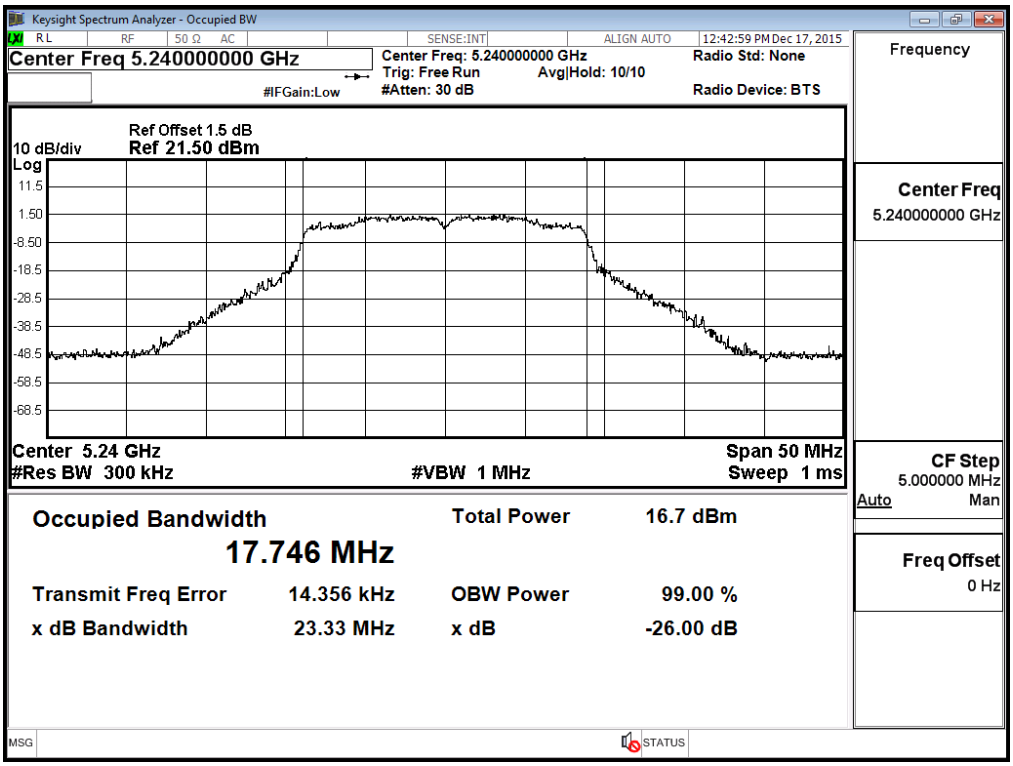
26dBc Occupied Bandwidth:
Channel 36 -Chain B



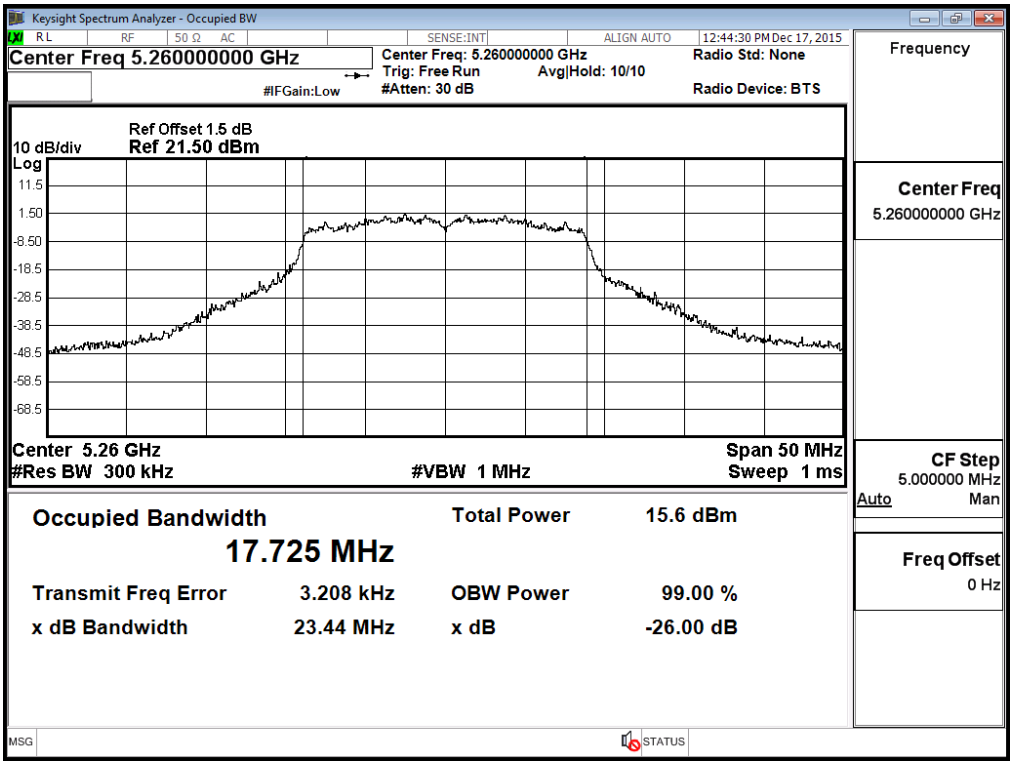
Channel 44 -Chain B



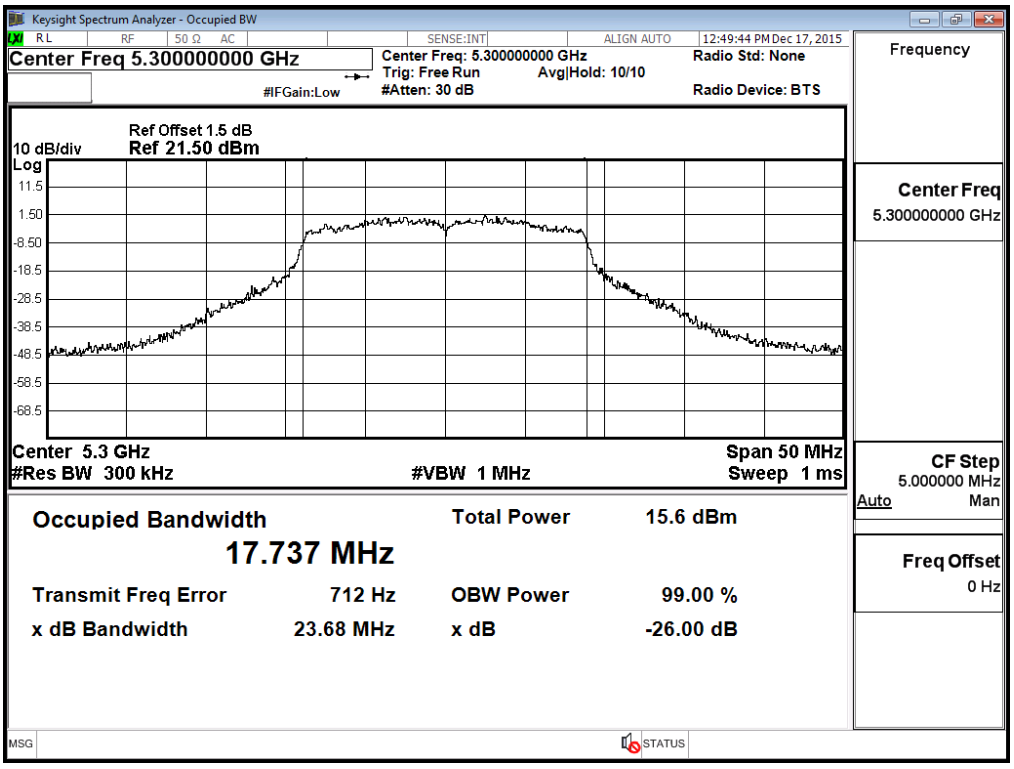
Channel 48 -Chain B



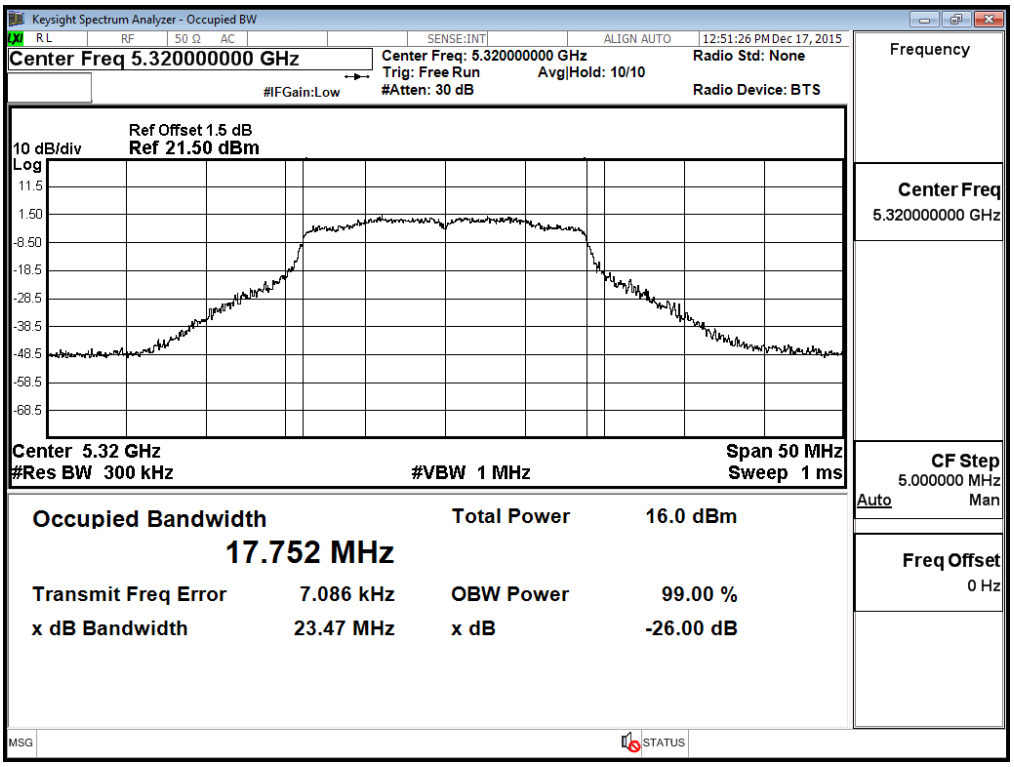
Channel 52 -Chain B



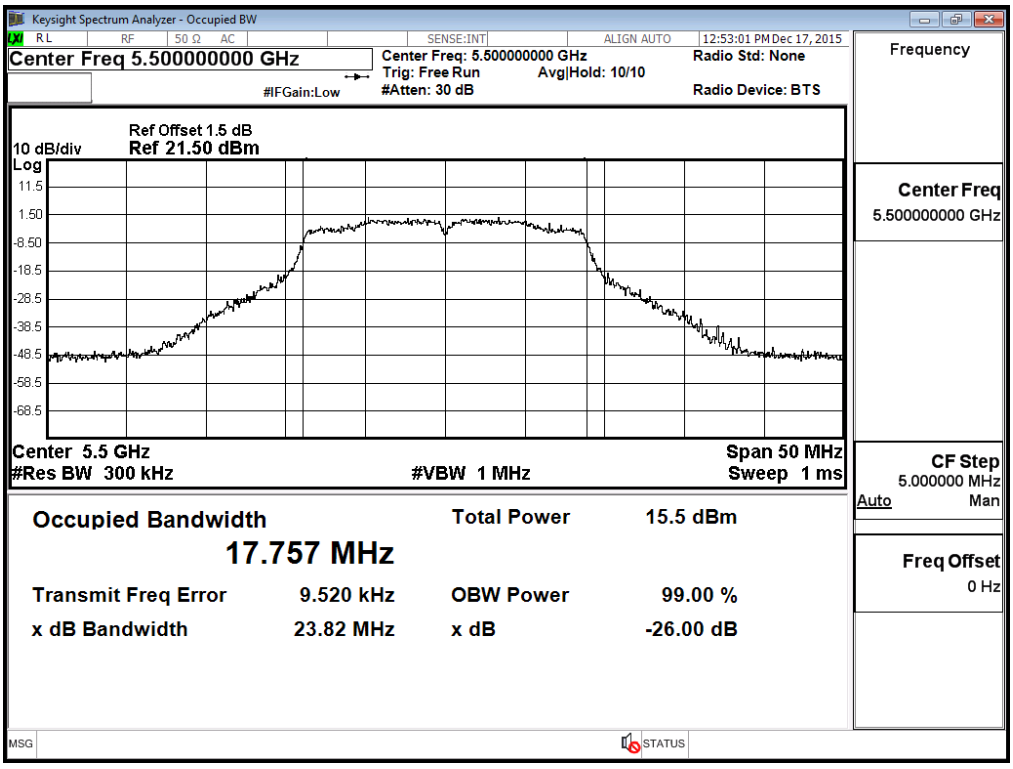
Channel 60 -Chain B



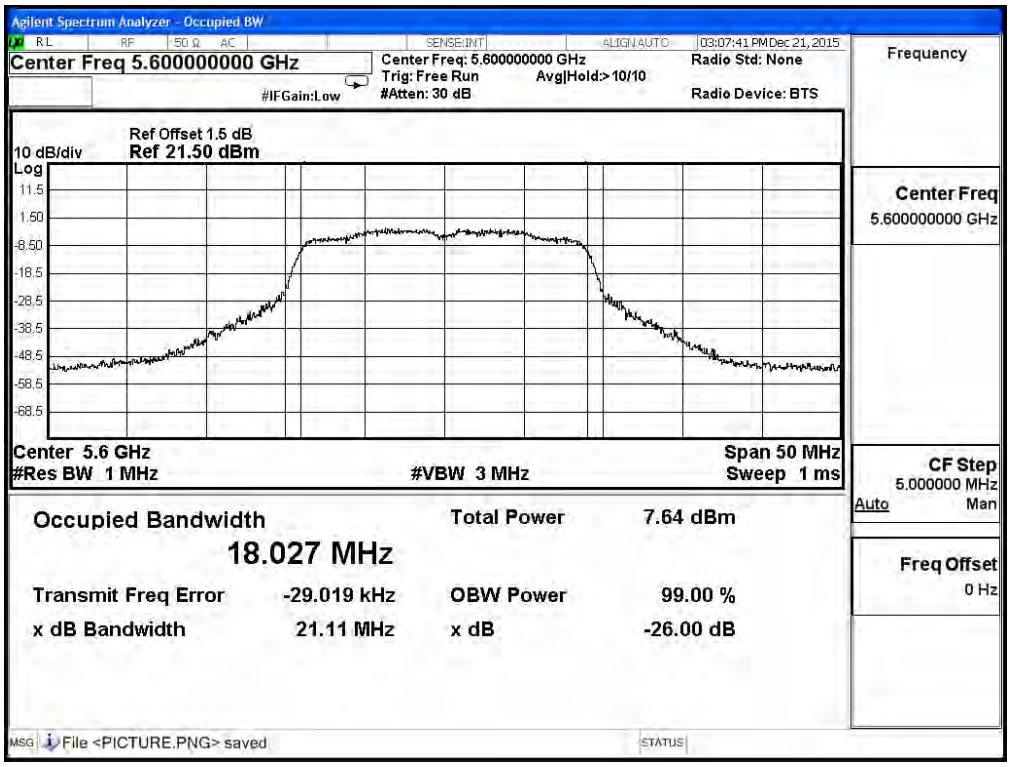
Channel 64 -Chain B



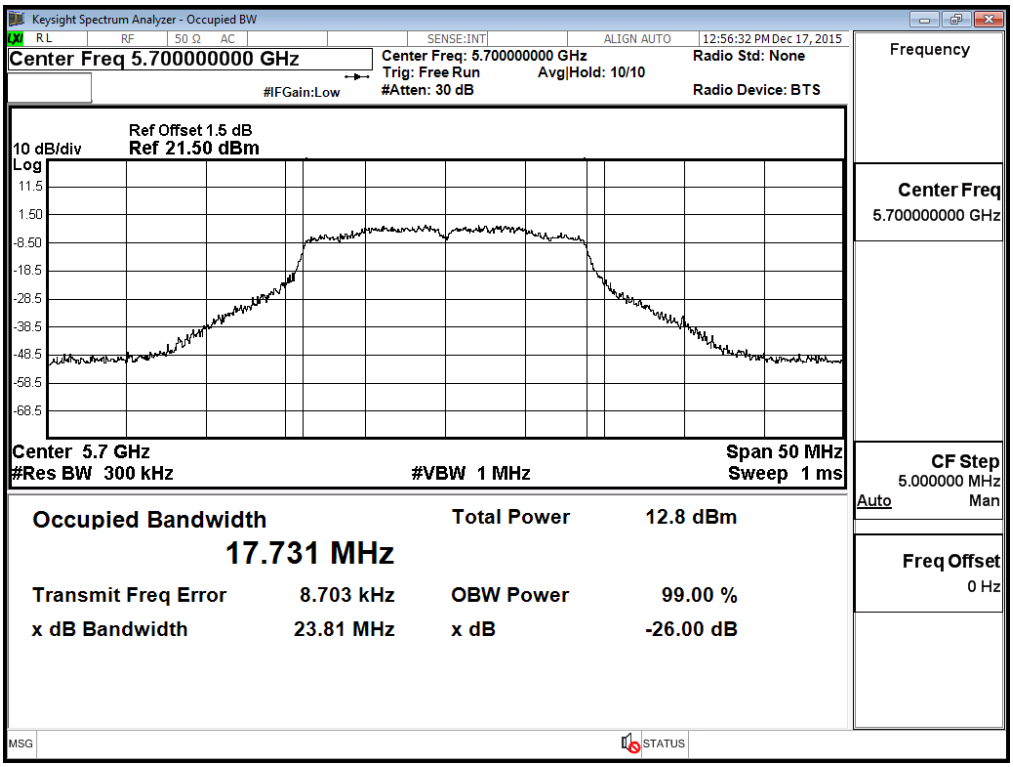
Channel 100 -Chain B



Channel 120 -Chain B



Channel 140 -Chain B



Product : INTEL DUAL BAND WIRELESS–AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps)

Chain A

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	9.24	--	--	--	--	--	--	--	<17dBm
46	5230	10.07	10.05	10.03	10.01	9.98	9.95	9.93	9.90	<17dBm
54	5270	11.46	--	--	--	--	--	--	--	<24dBm
62	5310	10.81	10.79	10.77	10.73	10.71	10.69	10.66	10.64	<24dBm
102	5510	11	--	--	--	--	--	--	--	<24dBm
118	5590	10.52	10.50	10.47	10.45	10.42	10.39	10.37	10.35	<24dBm
134	5670	8.13	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	9.93	--	--	--	--	--	--	--	<17dBm
46	5230	10.55	10.53	10.51	10.49	10.46	10.43	10.41	10.38	<17dBm
54	5270	11.16	--	--	--	--	--	--	--	<24dBm
62	5310	10.44	10.42	10.39	10.36	10.34	10.31	10.28	10.26	<24dBm
102	5510	10.76	--	--	--	--	--	--	--	<24dBm
118	5590	10.98	10.95	10.93	10.91	10.89	10.86	10.83	10.81	<24dBm
134	5670	9	--	--	--	--	--	--	--	<24dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

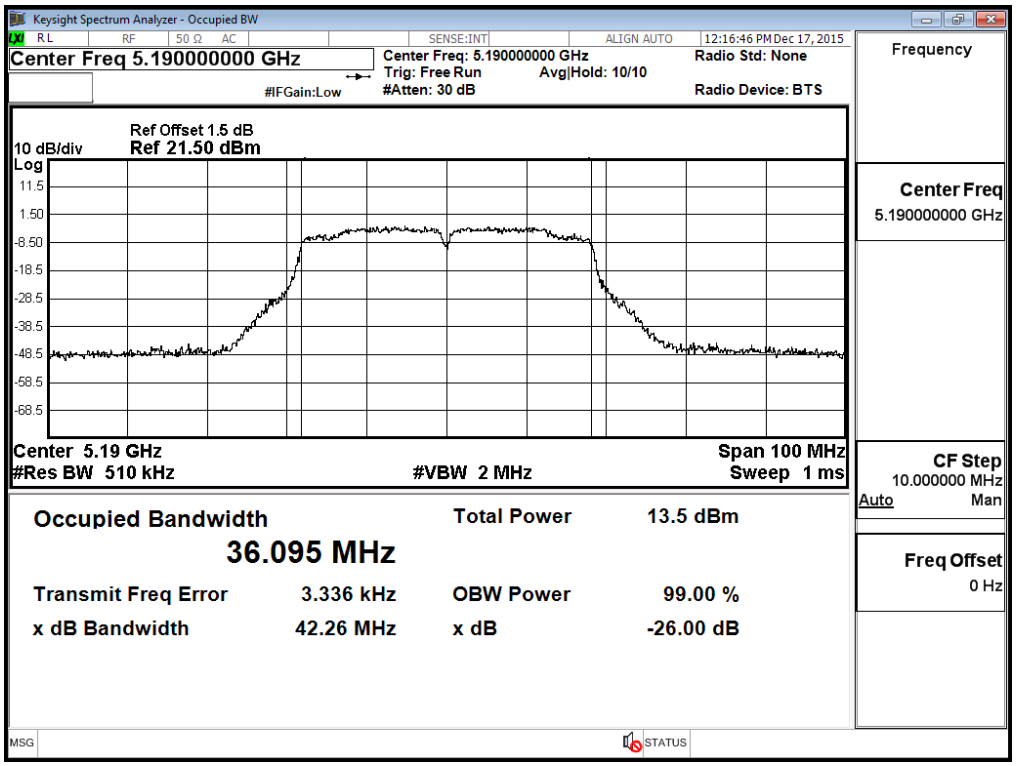
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
38	5190	36.095	9.24	9.93	12.61	17	19.57
46	5230	36.089	10.07	10.55	13.33	17	19.57
54	5270	36.125	11.46	11.16	14.32	24	26.58
62	5310	36.061	10.81	10.44	13.64	24	26.57
102	5510	36.096	11.00	10.76	13.89	24	26.57
118	5590	36.163	10.52	10.98	13.77	24	26.58
134	5670	36.092	8.13	9.00	11.60	24	26.57

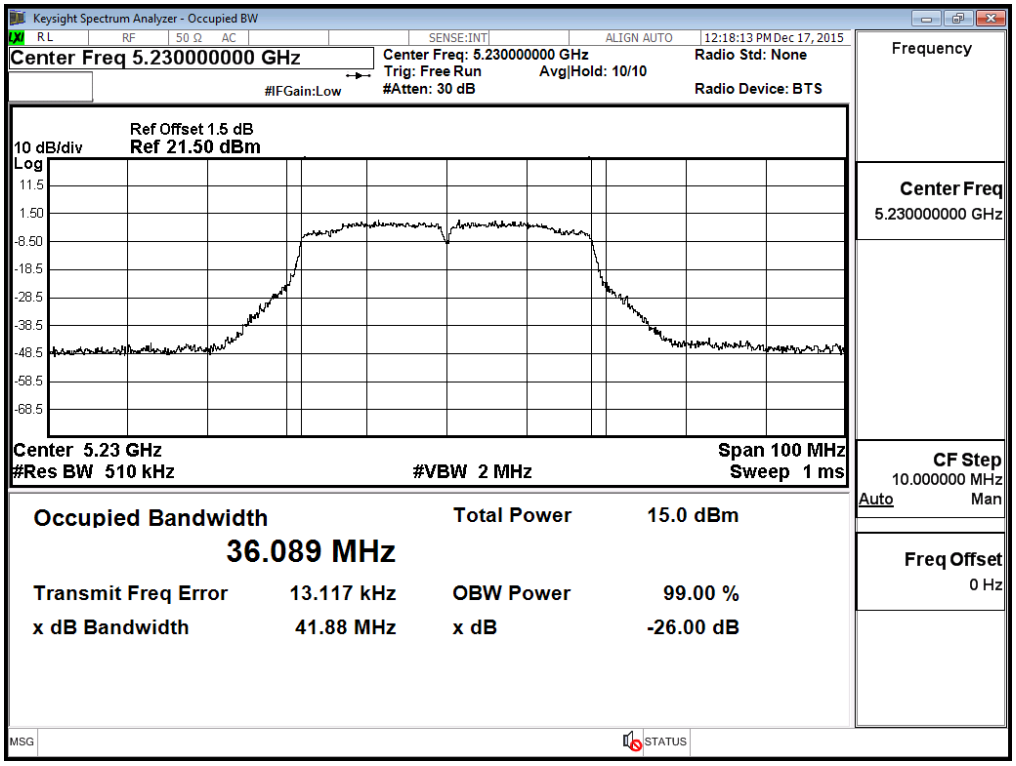
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

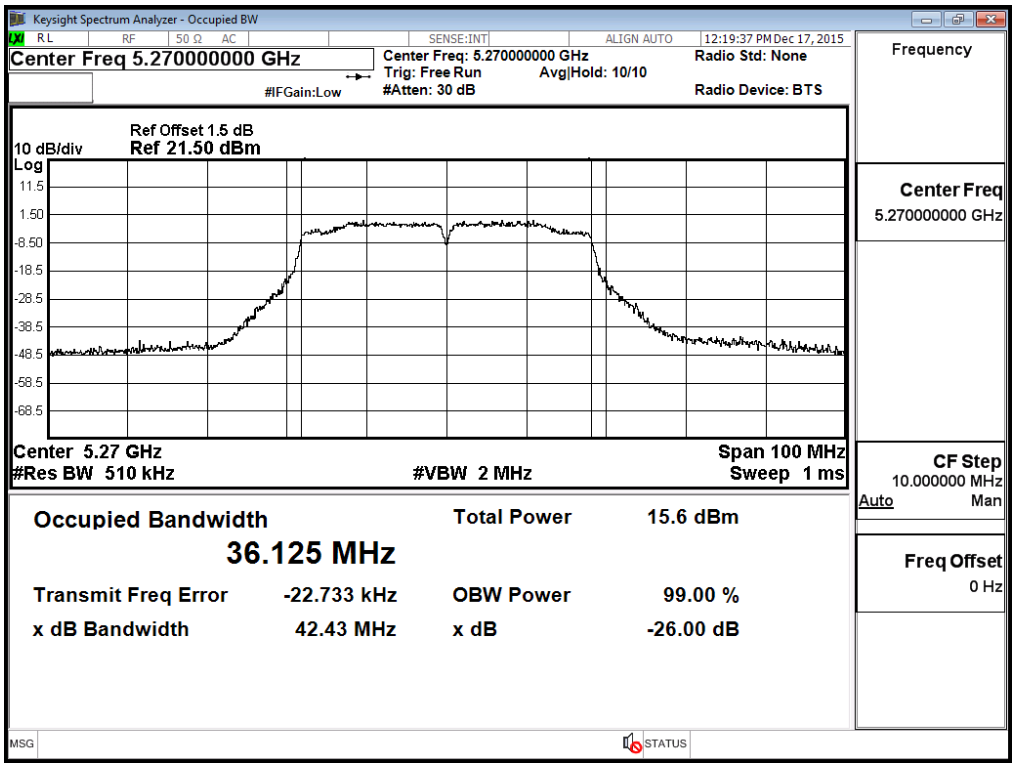
26dBc Occupied Bandwidth:
Channel 38 – Chain A



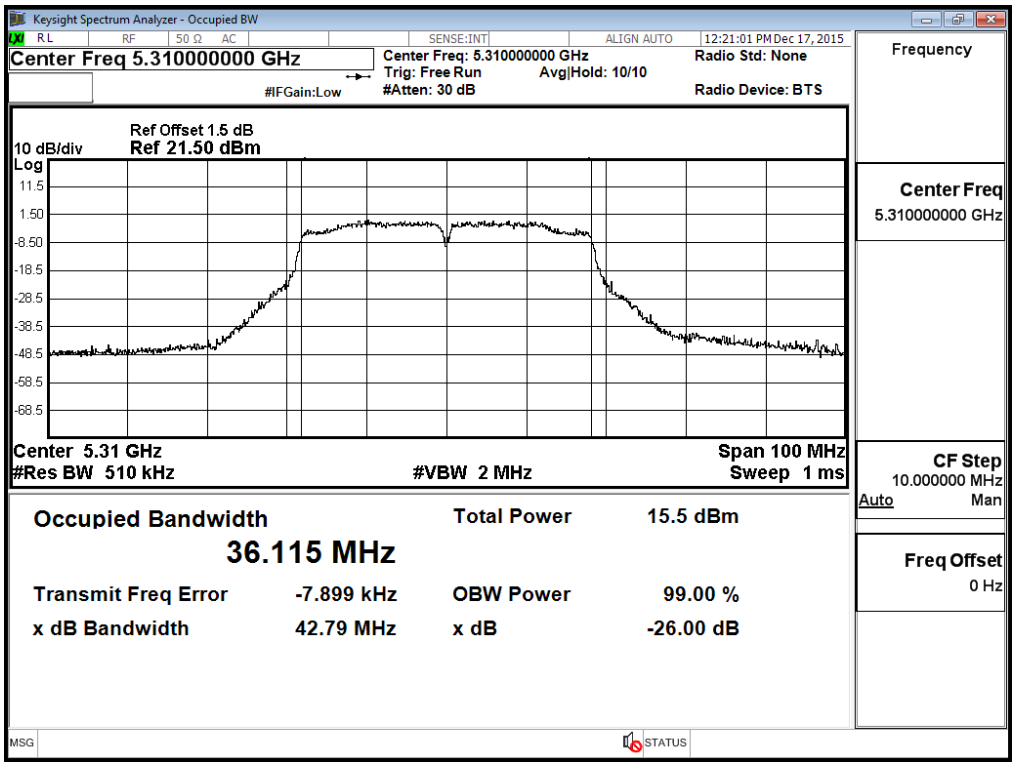
Channel 46 – Chain A



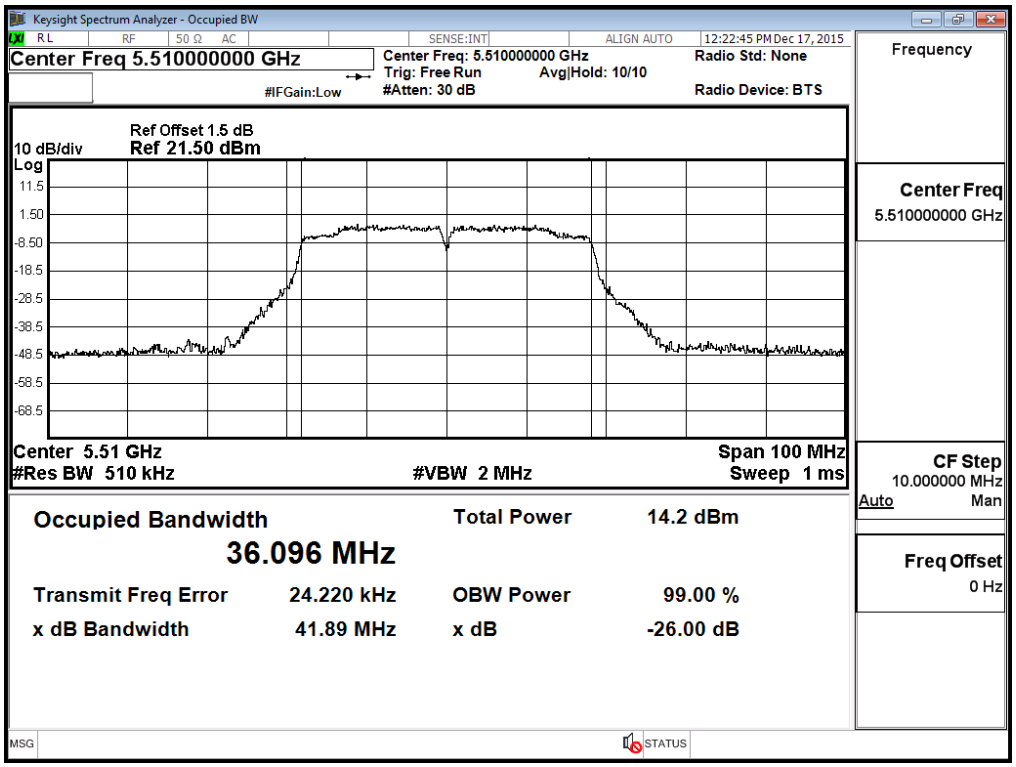
Channel 54 – Chain A



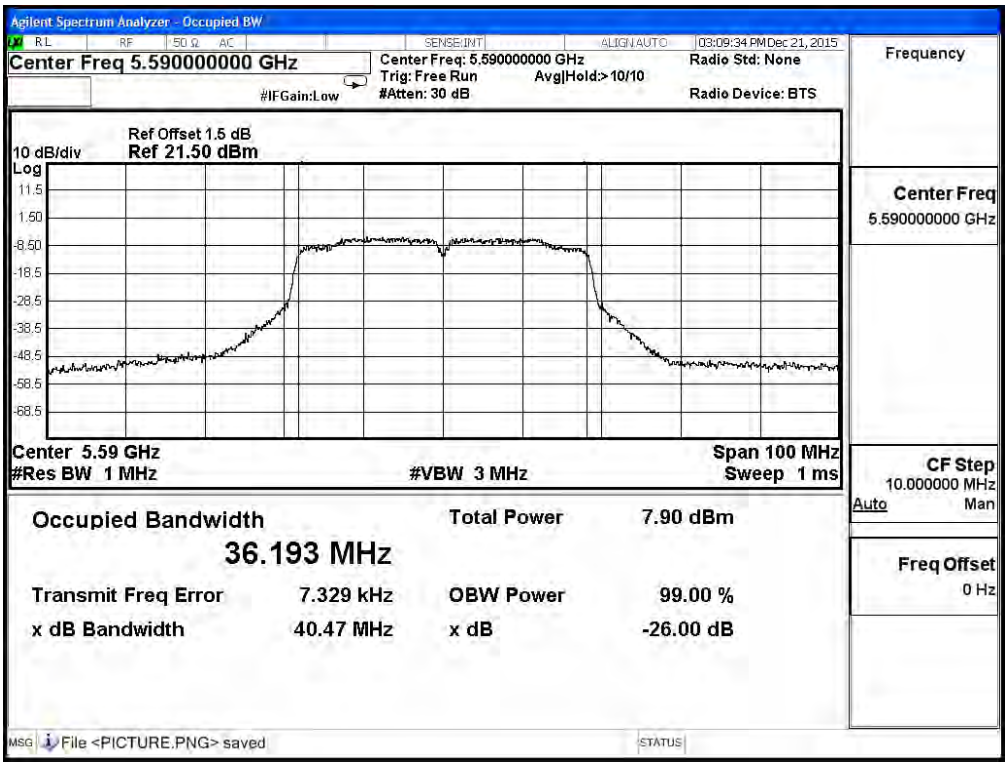
Channel 62 – Chain A



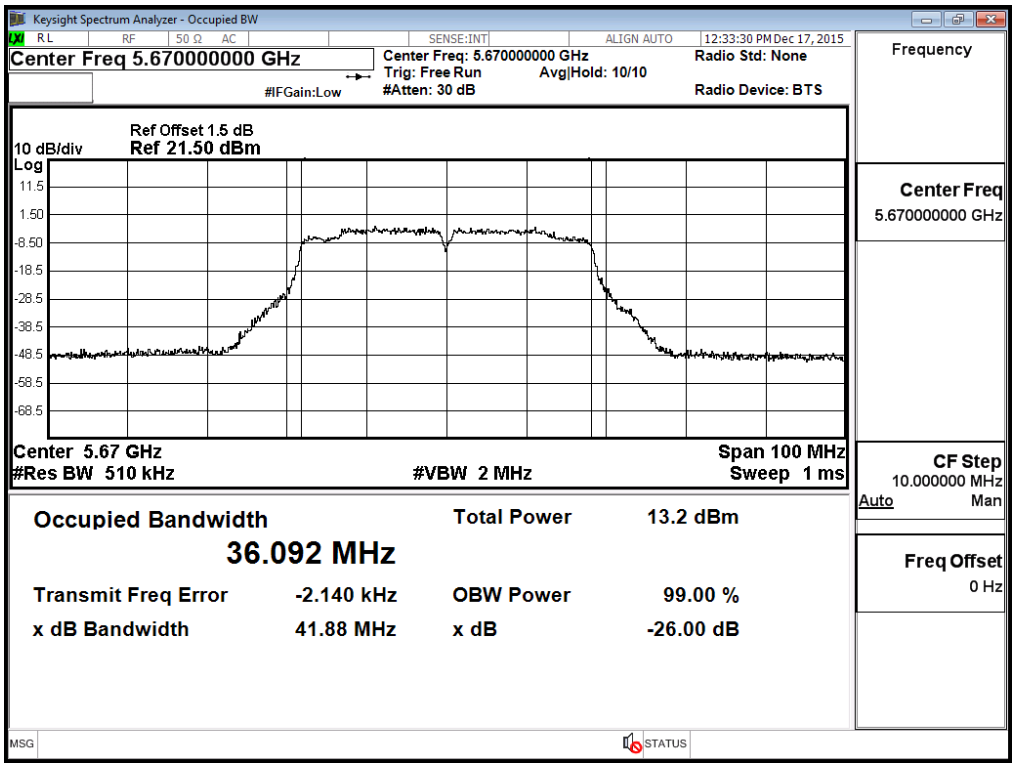
Channel 102 – Chain A



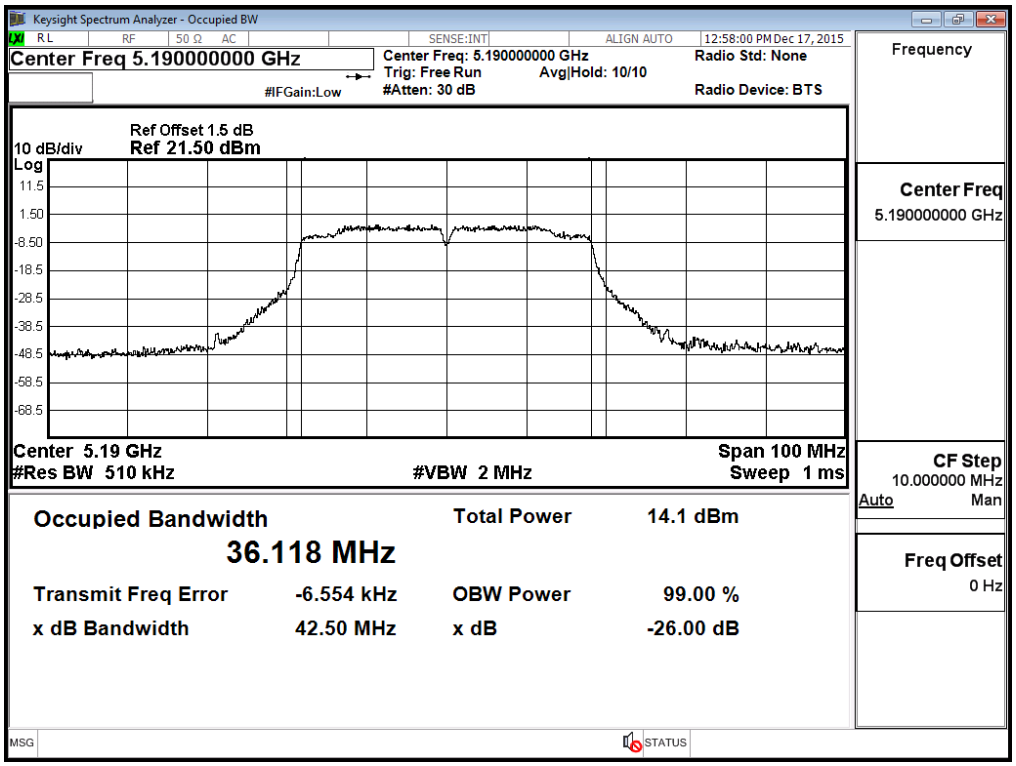
Channel 118 – Chain A



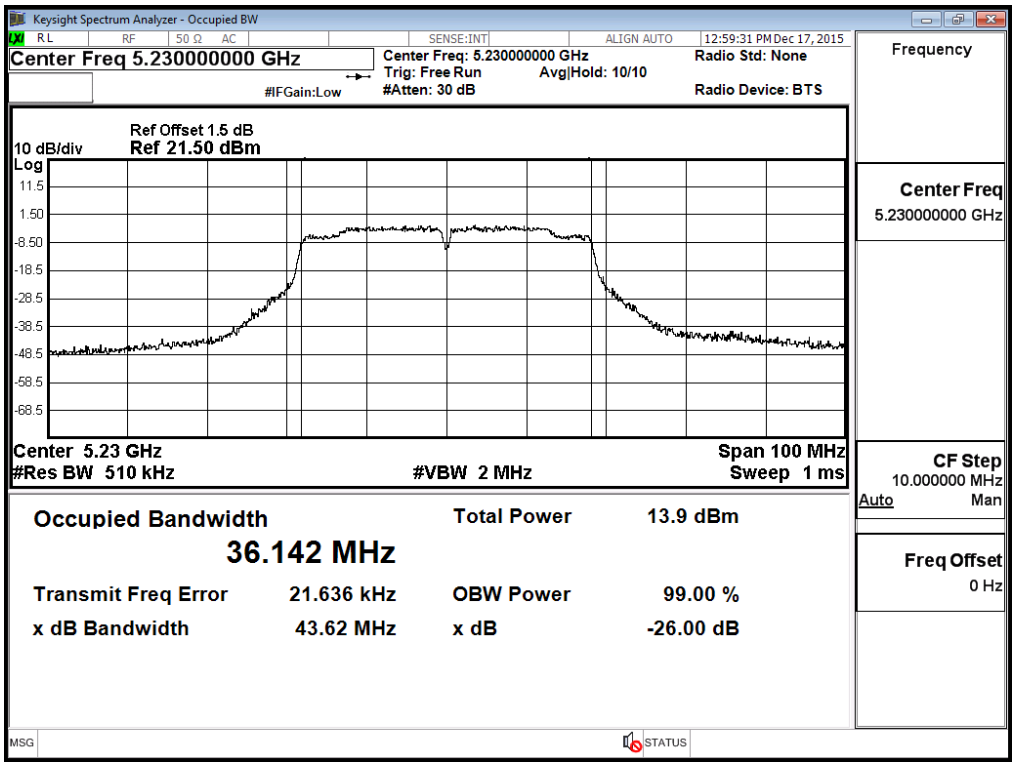
Channel 134 – Chain A



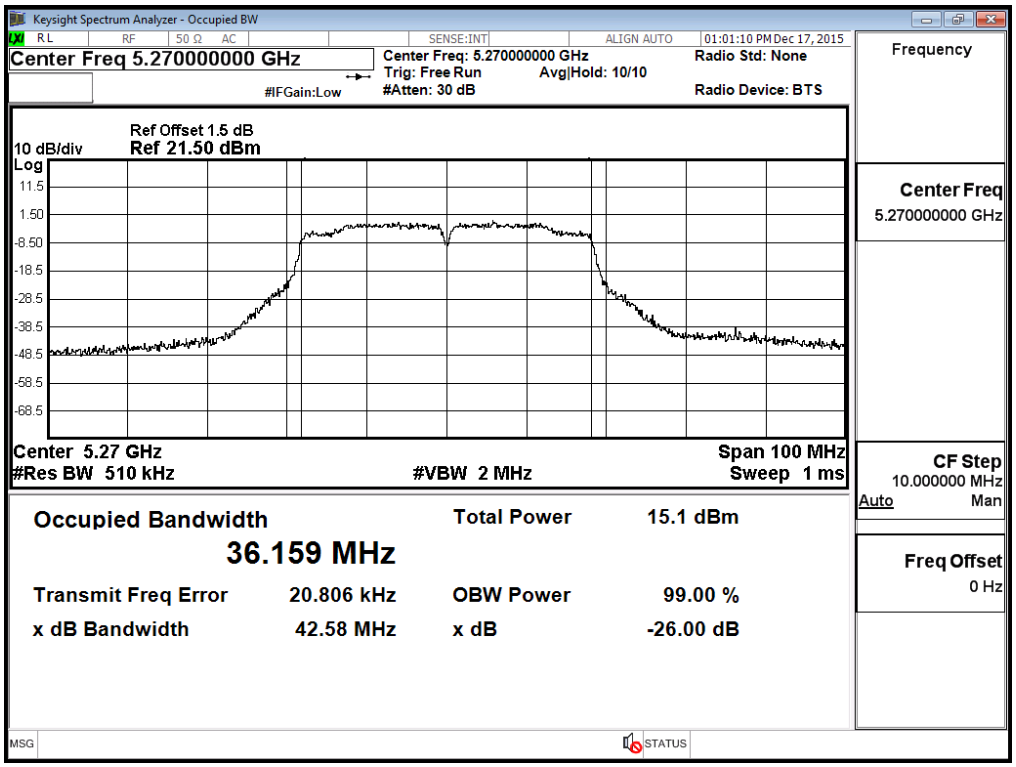
26dBc Occupied Bandwidth:
Channel 38 – Chain B



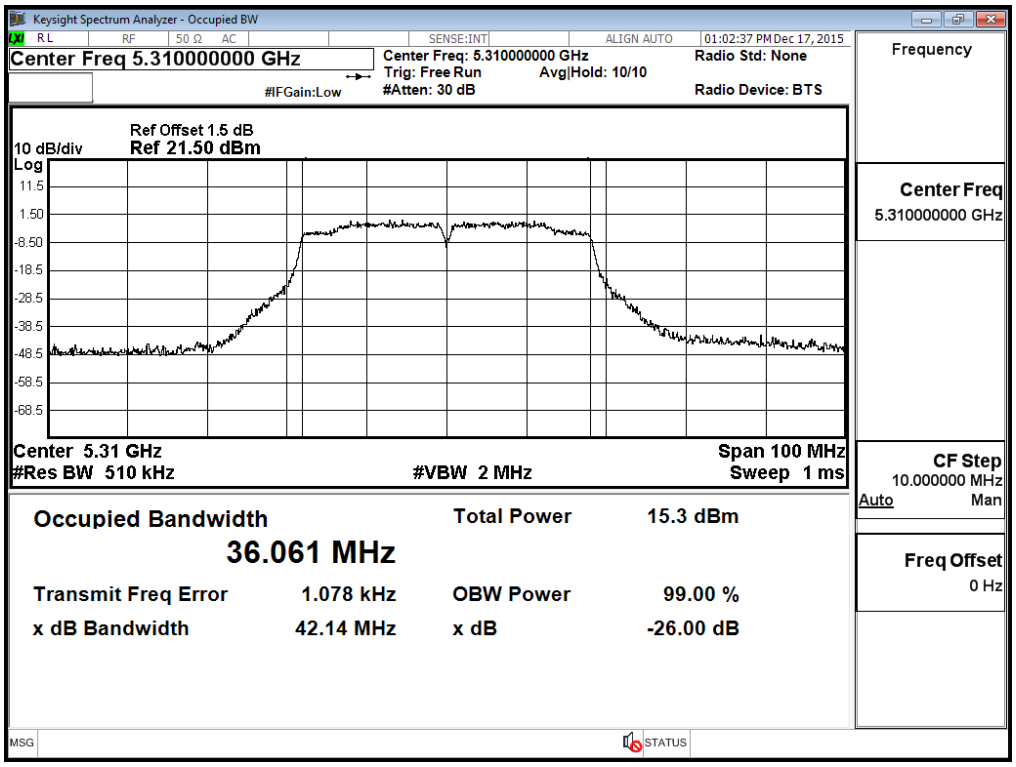
Channel 46 – Chain B



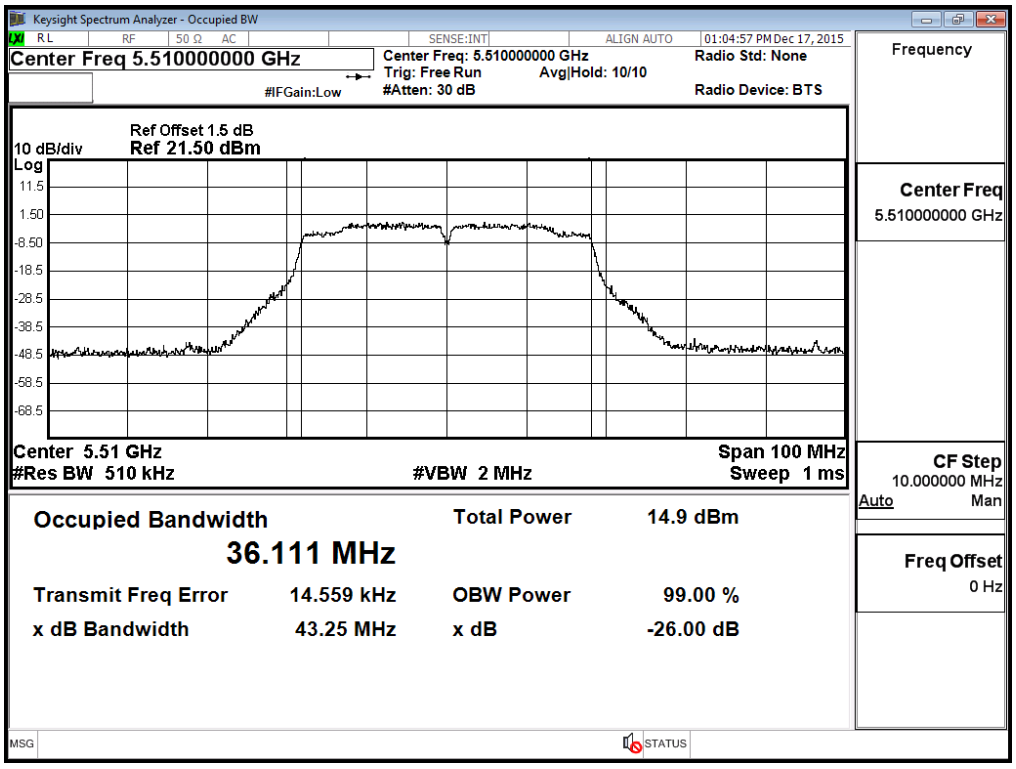
Channel 54 – Chain B



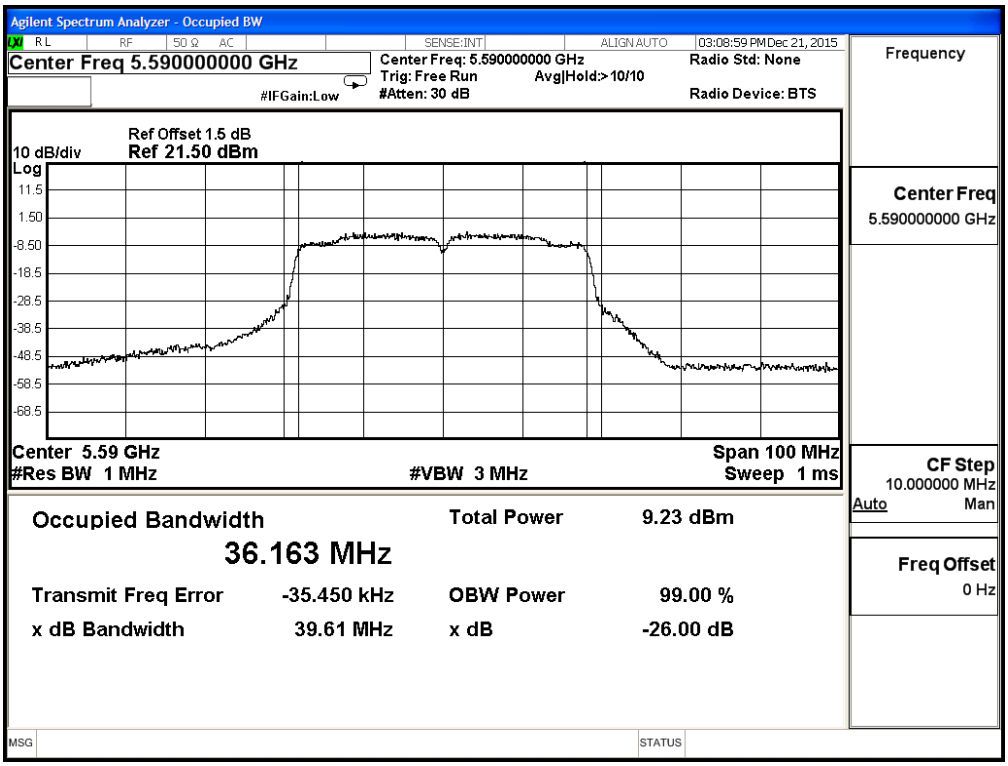
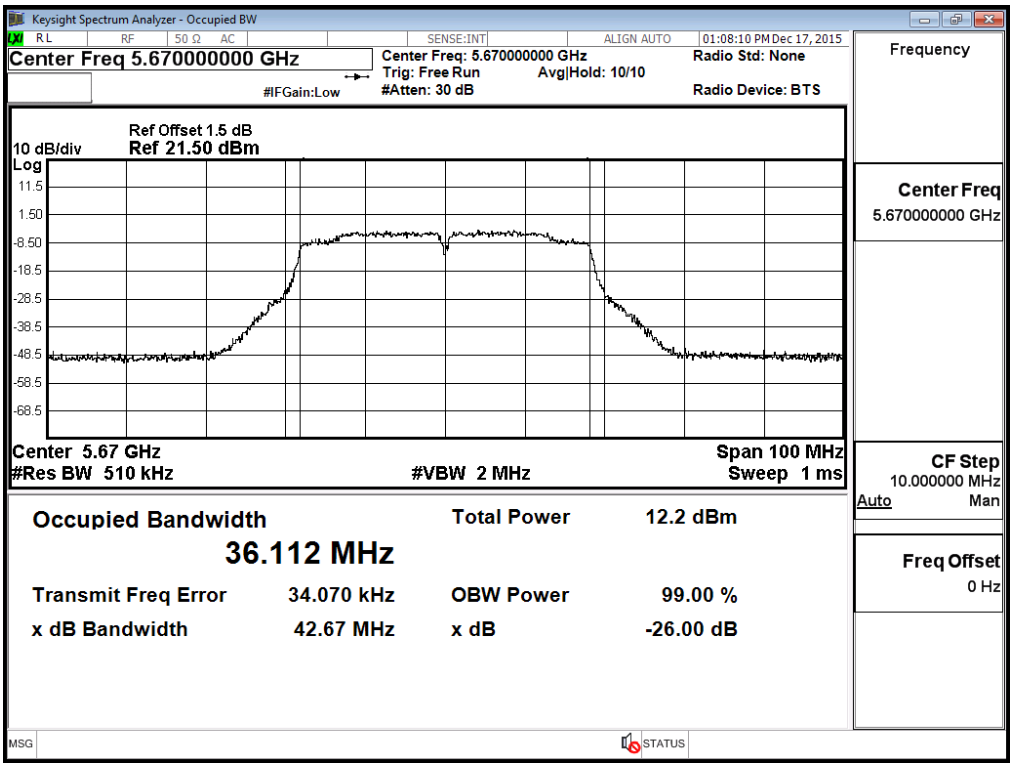
Channel 62 – Chain B



Channel 102 – Chain B



Channel 118– Chain B



Channel 134 – Chain B