

FCC Test Report

Product Name : Verizon Mesh Router
Trade Name : ASUS
Model No. : VZMESHROUTER, VZMESHWAR, VZW-AC1300
FCC ID. : MSQ-RTACHQ00

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

Date of Receipt : Oct. 23, 2017
Issued Date : Dec. 04, 2017
Report No. : 17A0318R-RFUSP34V00
Report Version : V1.0



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Test Report Certification

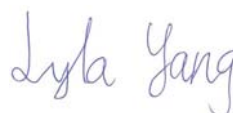
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Product Name : Verizon Mesh Router
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : VZMESHROUTER, VZMESHWAR, VZW-AC1300
 FCC ID. : MSQ-RTACHQ00
 EUT Voltage : AC 100-240V, 50-60Hz
 Testing Voltage : AC 120V/60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2016
 ANSI C63.10: 2013
 KDB 789033.D02 V01r03
 KDB 644545 D03 V01/KDB 662911 D01 V02r01
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 TEL: +886-3-582-8001 / FAX: +886-3-582-8958
 Test Result : Complied

Documented By :



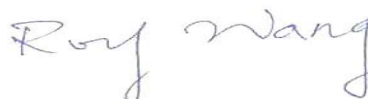
(Lyla Yang / Engineering Adm. Specialist)

Tested By :



(Scott Chang / Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
17A0318R-RFUSP34V00	V1.0	Initial issue of report	Dec. 04, 2017

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1. General Information

1.1. EUT Description

Product Name	Verizon Mesh Router	
Trade Name	ASUS	
Model No.	VZMESHROUTER, VZMESHWAR, VZW-AC1300	
Frequency Range/ Channel Number	IEEE 802.11a/	5180~5240MHz / 4 Channels
	IEEE 802.11n (20MHz) / IEEE 802.11ac (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz) / IEEE 802.11ac (40MHz)	5190~5230MHz / 2 Channels 5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel 5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed	IEEE 802.11a	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac

Antenna Information			
Antenna	MFR. /Model No.	Antenna Type	Peak Gain
WiFi ANT 1	Airgain / N2420DCB-PK1-G62UR2	PIFA Antenna	5.2 G: 2.9 dBi 5.8 G: 3.3 dBi
WiFi ANT 2	Airgain / N2425D2S-PK1-B32UR2	PIFA Antenna	5.2 G: 3.6 dBi 5.8 G: 3.5 dBi

Accessories Information	
Power Adapter (Level 6)	APD, WB-18D12FU I/P : 100-240V~ 50/60Hz 0.5A Max. O/P : 12V ===1.5A Cable Out: Non-Shielded, 2 m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20 MHz		40 MHz		80 MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	0	BPSK	1/2	13	14.4	27	30	58.6	65
	1	QPSK	1/2	26	28.8	54	60	117	130
	2	QPSK	3/4	39	43.4	81	90	175.6	195
	3	16-QAM	1/2	52	57.8	108	120	234	260
	4	16-QAM	3/4	78	86.6	162	180	351	390
	5	64-QAM	2/3	104	115.6	216	240	468	520
	6	64-QAM	3/4	117	130	243	270	526.6	585
	7	64-QAM	5/6	130	144.4	270	300	585	650
	8	256-QAM	3/4	156	173.4	324	360	702	780
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n (40MHz) & IEEE 802.11ac (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
42	5210 MHz
155	5775 MHz

Note:

1. This device is a Verizon Mesh Router supports 2.4GHz b/g/n and 5GHz a/n/ac and BT2.0 / BT4.0 transmitting and receiving function.
2. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit_CDD Mode Mode 2: Transmit_MIMO Mode Mode 3: Transmit_BF Mode
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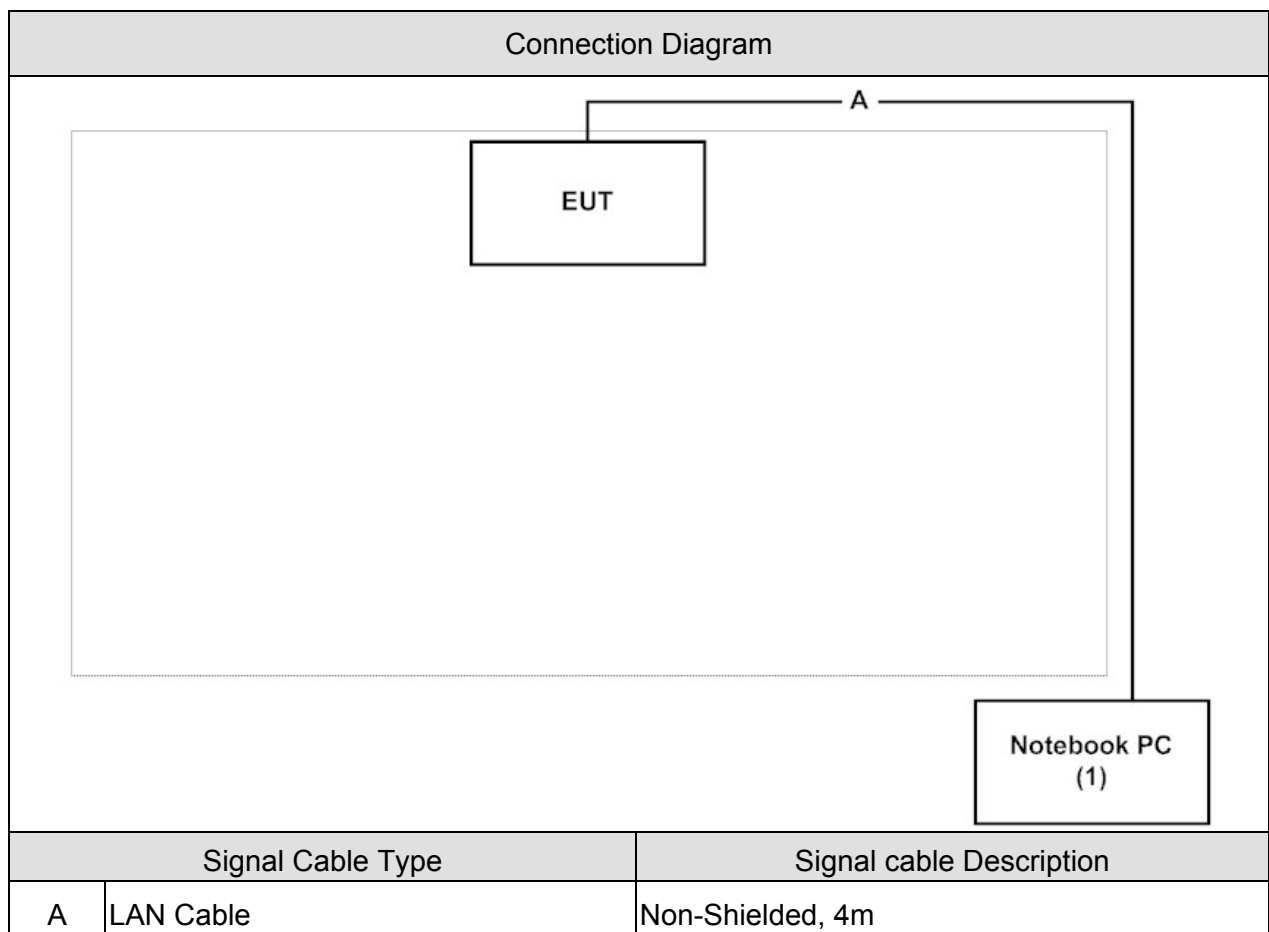
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42/155	0+1	Complies
99% & 26dB & DTS Bandwidth	a	36/44/48/149/157/165	0/1	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0/1	Complies
	11n/ac (40MHz)	38/46/151/159	0/1	Complies
	11ac (80MHz)	42/155	0/1	Complies
Peak Transmit Output	a	36/44/48/149/157/165	0+1	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1	Complies
	11n/ac (40MHz)	38/46/151/159	0+1	Complies
	11ac (80MHz)	42/155	0+1	Complies
Peak Power Spectrum Density	a	36/44/48/149/157/165	0+1	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1	Complies
	11n/ac (40MHz)	38/46/151/159	0+1	Complies
	11ac (80MHz)	42/155	0+1	Complies
Radiated Emission	a	36/44/48/149/157/165	0+1	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1	Complies
	11n/ac (40MHz)	38/46/151/159	0+1	Complies
	11ac (80MHz)	42/155	0+1	Complies
Band Edge	a	36/44/48/149/157/165	0+1	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1	Complies
	11n/ac (40MHz)	38/46/151/159	0+1	Complies
	11ac (80MHz)	42/155	0+1	Complies
Frequency Stability	a	36/48/149/165	0/1	Complies
	11n/ac (20MHz)	36/48/149/165	0/1	Complies
	11n/ac (40MHz)	38/46/151/159	0/1	Complies
	11ac (80MHz)	42/155	0/1	Complies

1.3. Tested System Details

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.	FCC ID	Power Cord
1	Notebook PC	DELL	Latitude 600	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the "QCA Radio Control Toolkit" on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20°C	3
Humidity (%RH)		25 - 75	50%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 99% & 26dB & DTS Bandwidth	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Peak Transmit Power	15 - 35	25°C	3
Humidity (%RH)		25 - 75	65%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum Density	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25°C	2
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25°C	2
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

USA : FCC, Registration Number: TW3024

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

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TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

1.7. Duty Cycle

Modulation	Duty cycle	Radiated offset
802.11a	≐ 96%	0.333
802.11n20	≐ 86%	1.265
802.11n40	≐ 82%	1.695
802.11ac80	≐ 88%	1.055

Note:

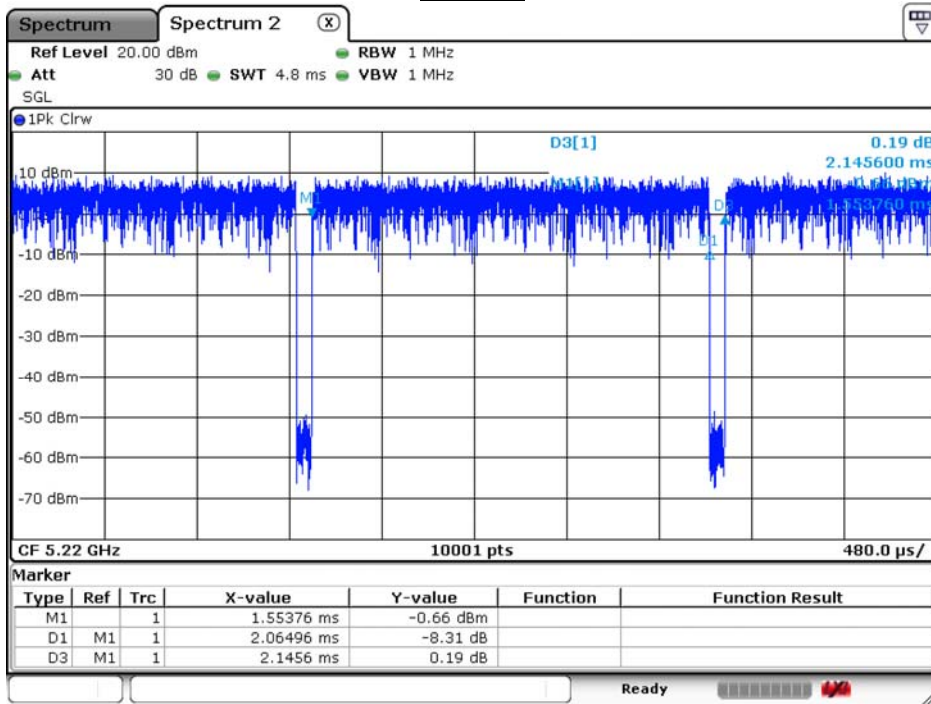
Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

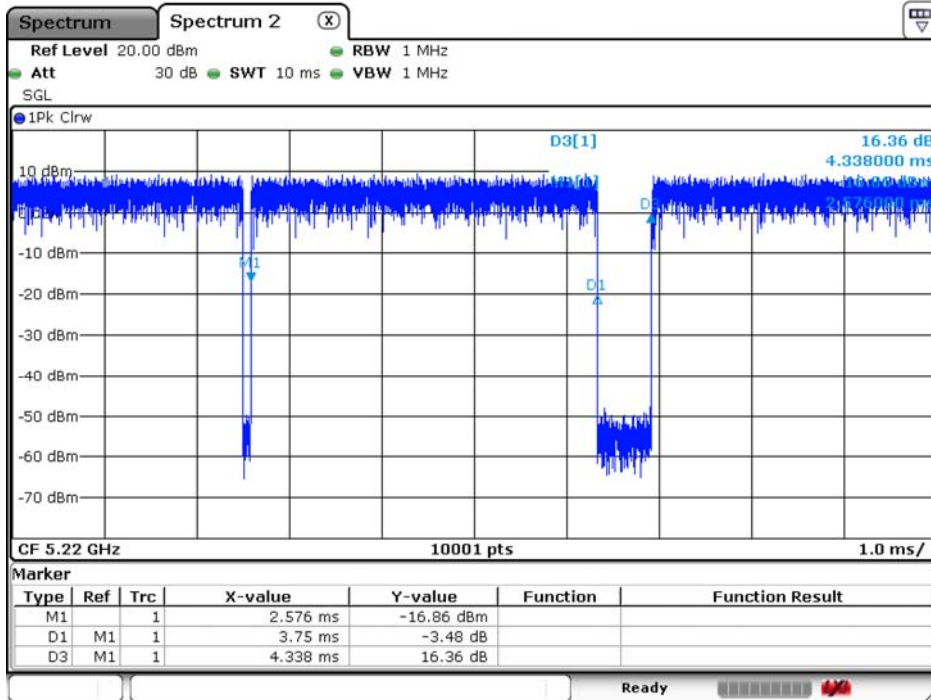
If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11a



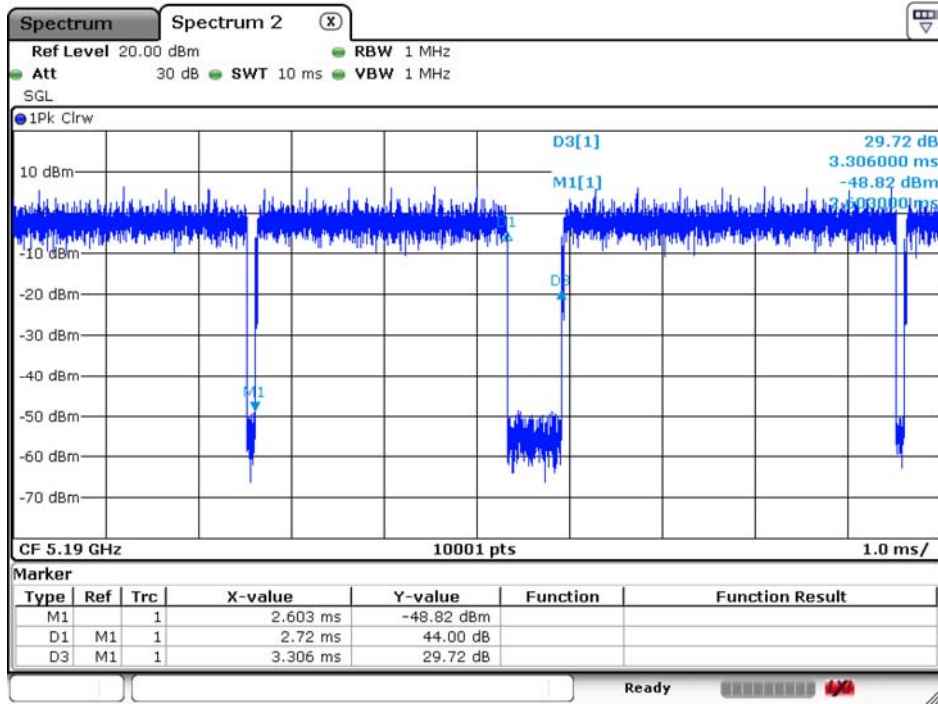
Date: 24.NOV.2017 02:53:01

802.11n(20M)



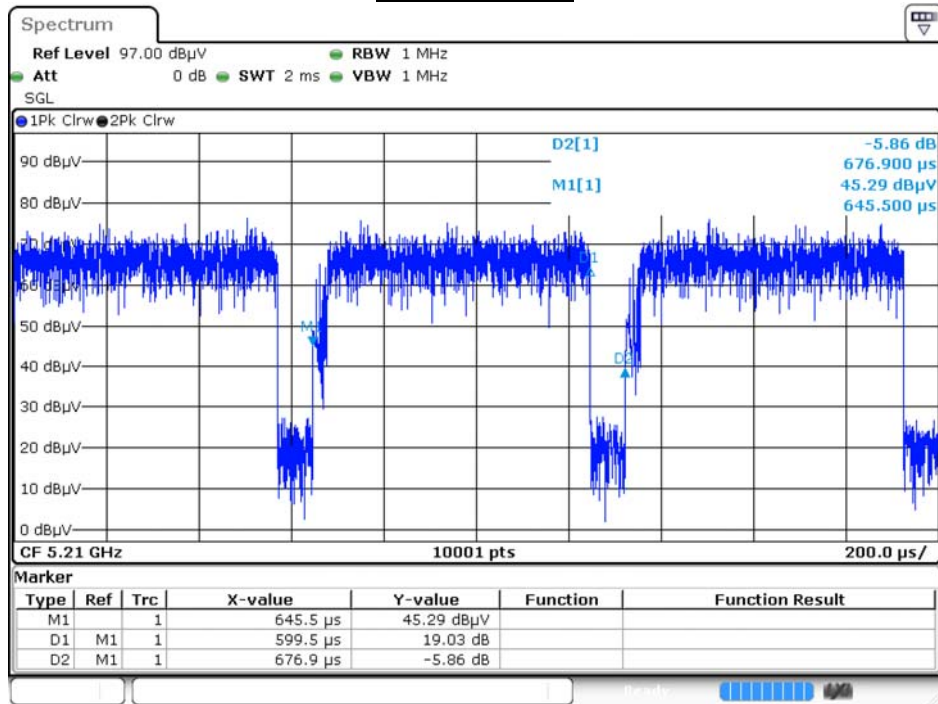
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802.11n(40M)



Date: 24.NOV.2017 03:03:35

802.11ac(80M)



Date: 12.OCT.2017 12:50:14

2. Conducted Emission

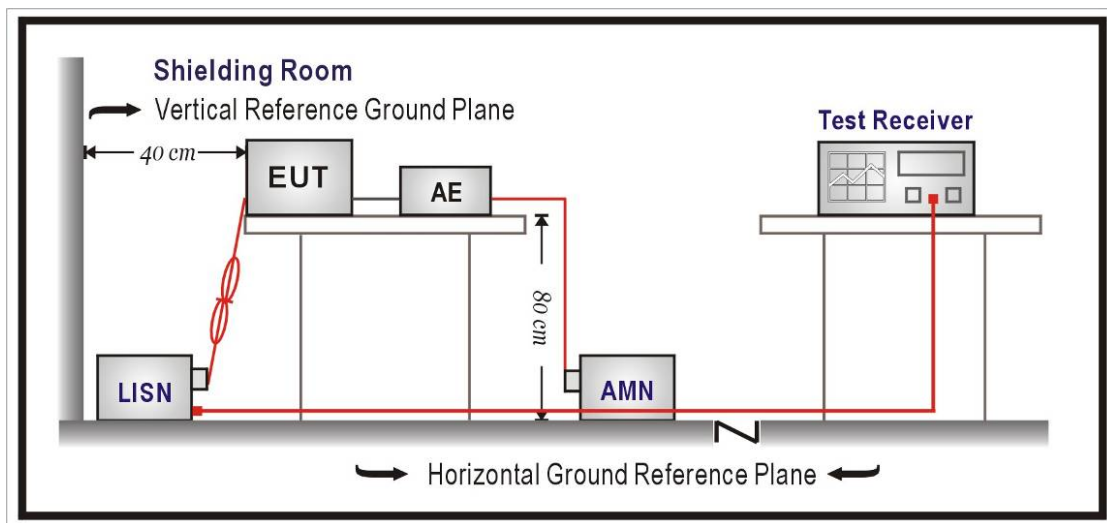
2.1. Test Equipment

The following test equipment are used during the test:

Conducted Emission /SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2017/02/06	2018/02/05
Test Receiver	R&S	ESCS 30	836858/022	2017/04/12	2018/04/11
LISN	R&S	ENV216	100092	2017/07/31	2018/07/30

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

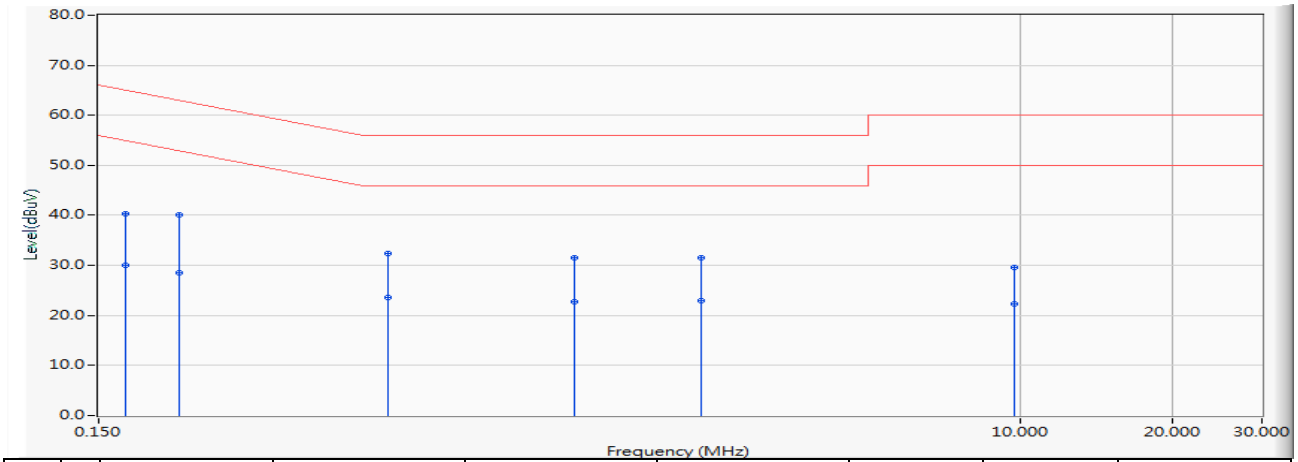
According to FCC Part 15 Subpart C Paragraph 15.207: 2016

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 2: Transmit_MIMO Mode_ 802.11ac(80M)_5210MHz

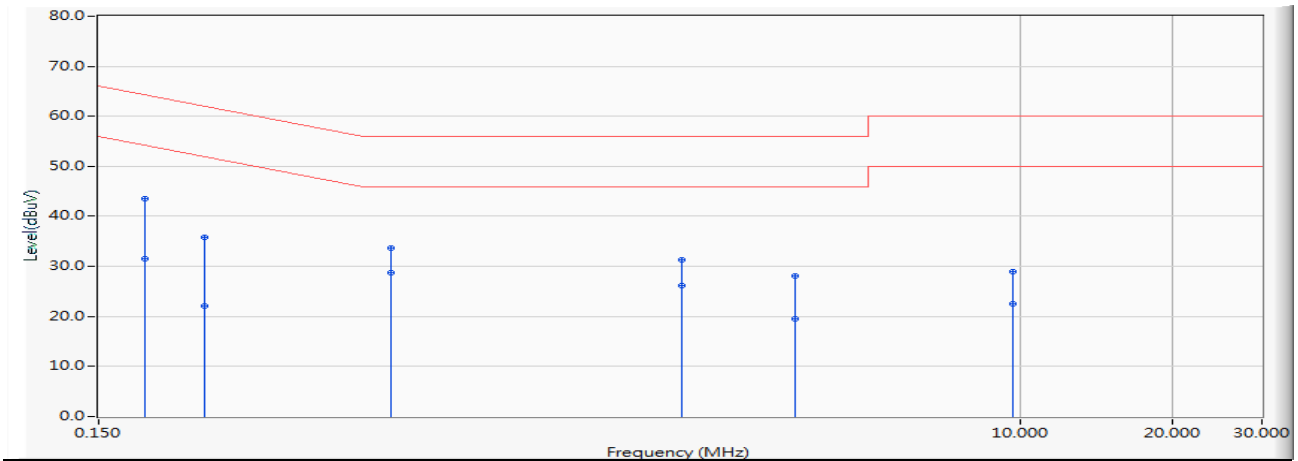


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.753	30.510	40.263	-24.720	64.983	QUASIPeAK
2	0.170	9.753	20.230	29.983	-25.000	54.983	AVERAGE
3	0.216	9.748	30.280	40.028	-22.927	62.956	QUASIPeAK
4	0.216	9.748	18.700	28.448	-24.507	52.956	AVERAGE
5	0.560	9.739	22.600	32.339	-23.661	56.000	QUASIPeAK
6	* 0.560	9.739	13.850	23.589	-22.411	46.000	AVERAGE
7	1.314	9.833	21.740	31.573	-24.427	56.000	QUASIPeAK
8	1.314	9.833	12.850	22.683	-23.317	46.000	AVERAGE
9	2.330	9.870	21.600	31.470	-24.530	56.000	QUASIPeAK
10	2.330	9.870	13.110	22.980	-23.020	46.000	AVERAGE
11	9.724	10.118	19.450	29.568	-30.432	60.000	QUASIPeAK
12	9.724	10.118	12.230	22.348	-27.652	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 2: Transmit_MIMO Mode_802.11ac(80M)_5210MHz

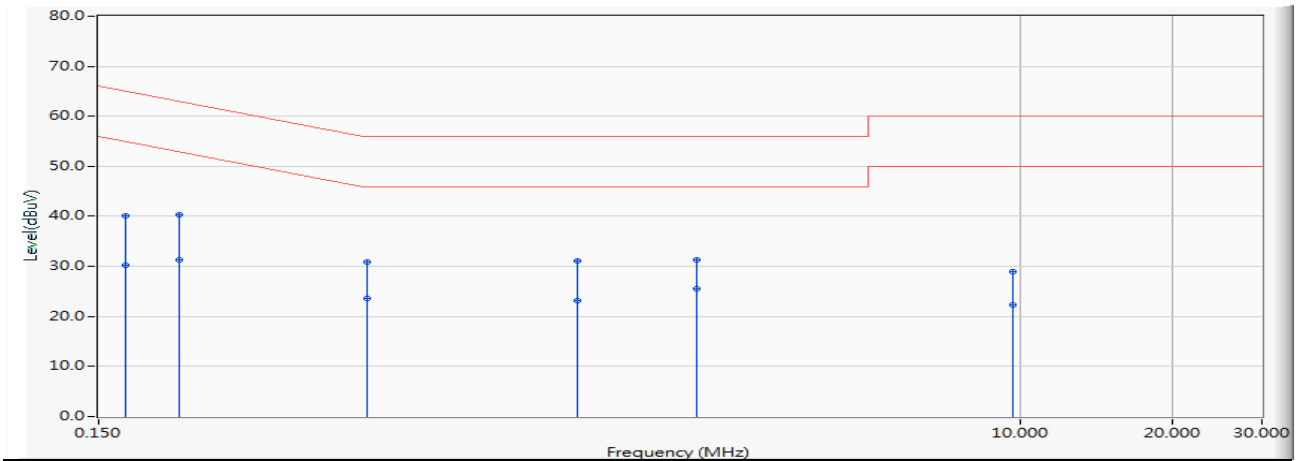


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	9.751	33.770	43.521	-20.730	64.251	QUASPEAK
2	0.185	9.751	21.700	31.451	-22.800	54.251	AVERAGE
3	0.244	9.750	26.160	35.910	-26.057	61.967	QUASPEAK
4	0.244	9.750	12.440	22.190	-29.777	51.967	AVERAGE
5	0.568	9.755	23.980	33.735	-22.265	56.000	QUASPEAK
6	* 0.568	9.755	18.950	28.705	-17.295	46.000	AVERAGE
7	2.142	9.849	21.360	31.209	-24.791	56.000	QUASPEAK
8	2.142	9.849	16.420	26.269	-19.731	46.000	AVERAGE
9	3.576	9.842	18.340	28.182	-27.818	56.000	QUASPEAK
10	3.576	9.842	9.670	19.512	-26.488	46.000	AVERAGE
11	9.630	10.128	18.910	29.038	-30.962	60.000	QUASPEAK
12	9.630	10.128	12.460	22.588	-27.412	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 2: Transmit_MIMO Mode_802.11ac(80M)_5775MHz

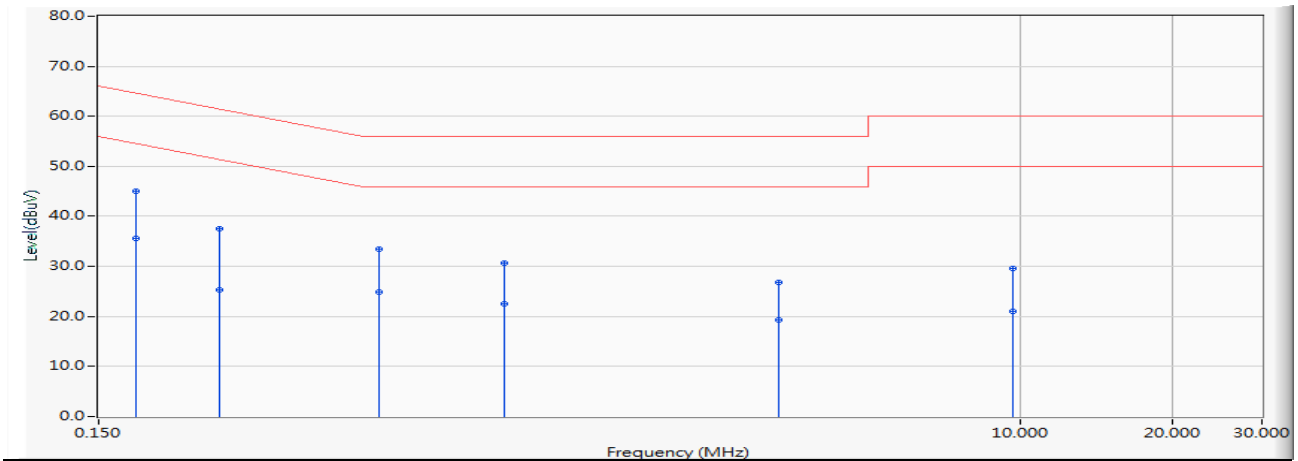


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.753	30.450	40.203	-24.780	64.983	QUASPEAK
2	0.170	9.753	20.430	30.183	-24.800	54.983	AVERAGE
3	0.216	9.748	30.660	40.408	-22.547	62.956	QUASPEAK
4	0.216	9.748	21.460	31.208	-21.747	52.956	AVERAGE
5	0.509	9.730	21.080	30.811	-25.189	56.000	QUASPEAK
6	0.509	9.730	13.770	23.501	-22.499	46.000	AVERAGE
7	1.326	9.833	21.310	31.143	-24.857	56.000	QUASPEAK
8	1.326	9.833	13.390	23.223	-22.777	46.000	AVERAGE
9	2.283	9.869	21.380	31.249	-24.751	56.000	QUASPEAK
10	* 2.283	9.869	15.740	25.609	-20.391	46.000	AVERAGE
11	9.650	10.115	18.850	28.965	-31.035	60.000	QUASPEAK
12	9.650	10.115	12.200	22.315	-27.685	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2017/11/15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Verizon Mesh Router	Note : Mode 2: Transmit_MIMO Mode_802.11ac(80M)_5775MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.752	35.280	45.032	-19.577	64.609	QUASPEAK
2	* 0.177	9.752	25.850	35.602	-19.007	54.609	AVERAGE
3	0.259	9.750	27.770	37.520	-23.931	61.451	QUASPEAK
4	0.259	9.750	15.660	25.410	-26.041	51.451	AVERAGE
5	0.537	9.750	23.670	33.420	-22.580	56.000	QUASPEAK
6	0.537	9.750	15.210	24.960	-21.040	46.000	AVERAGE
7	0.951	9.812	20.940	30.752	-25.248	56.000	QUASPEAK
8	0.951	9.812	12.790	22.602	-23.398	46.000	AVERAGE
9	3.318	9.843	16.950	26.793	-29.207	56.000	QUASPEAK
10	3.318	9.843	9.420	19.263	-26.737	46.000	AVERAGE
11	9.666	10.131	19.470	29.600	-30.400	60.000	QUASPEAK
12	9.666	10.131	10.930	21.060	-28.940	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. 99% & 20dB & DTS Bandwidth

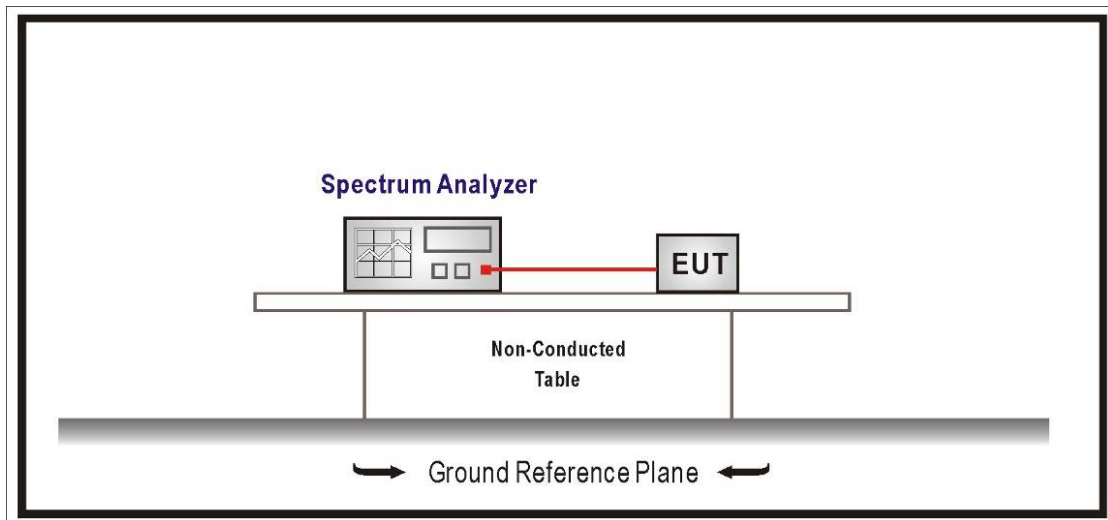
3.1. Test Equipment

The following test equipment are used during the radiated emission tests:

99% & 26dB & DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

3.2. Test Setup



3.3. Limits

99% & 26dB Bandwidth : No Required

6dB Bandwidth \geq 500KHz

3.4. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V01r03

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100KHz, VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector.

3.5. Uncertainty

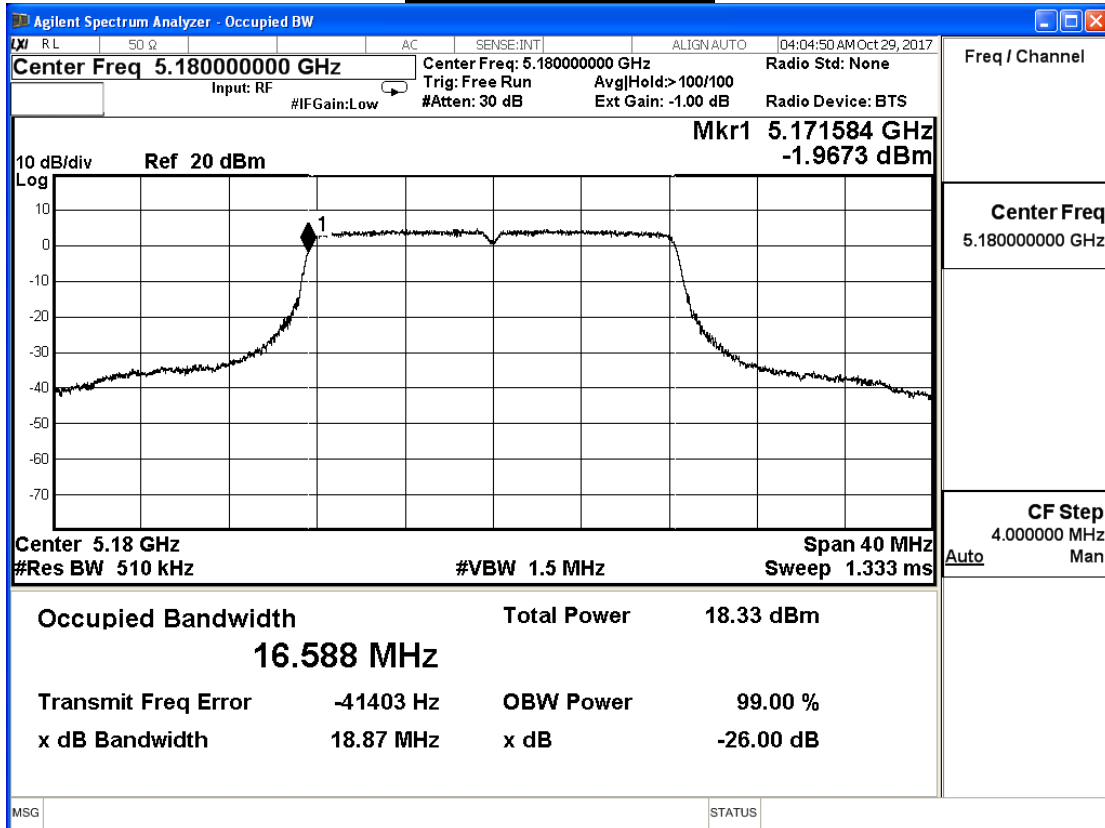
The measurement uncertainty is defined as ± 150 Hz

3.6. Test Result

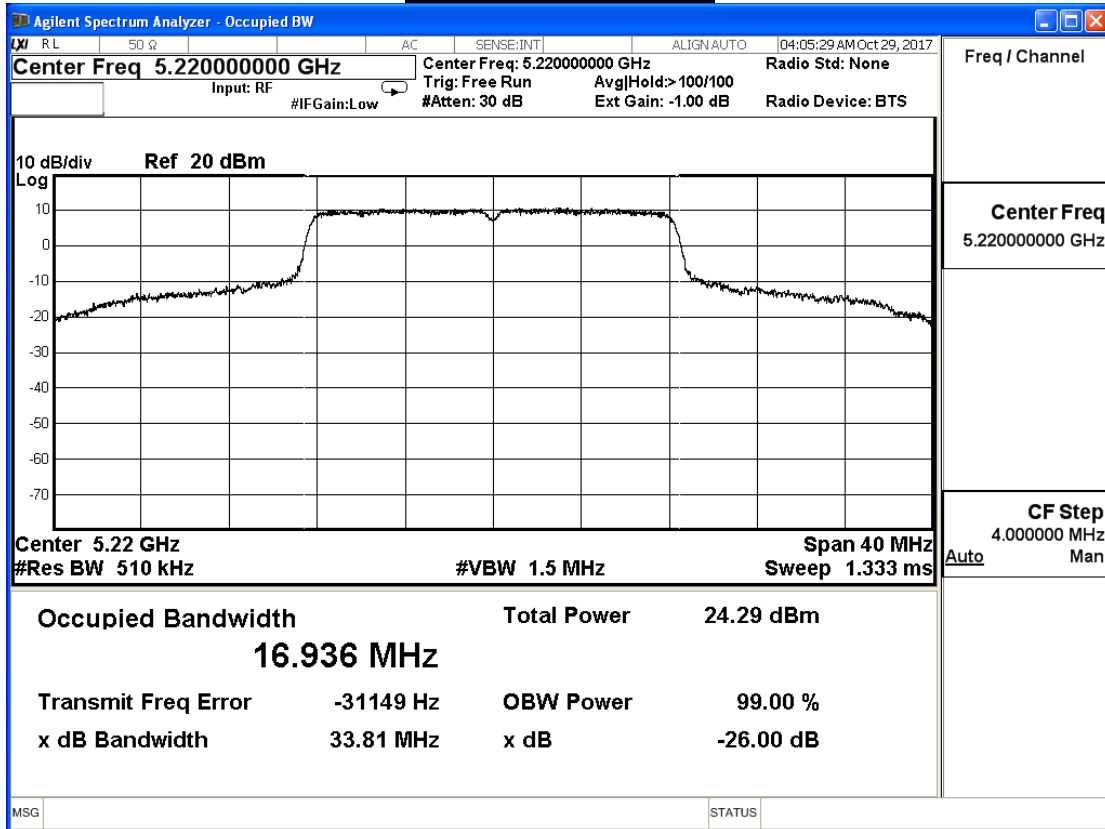
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	18.870	16.588	--
44	5220	33.810	16.936	--
48	5240	28.900	16.783	--

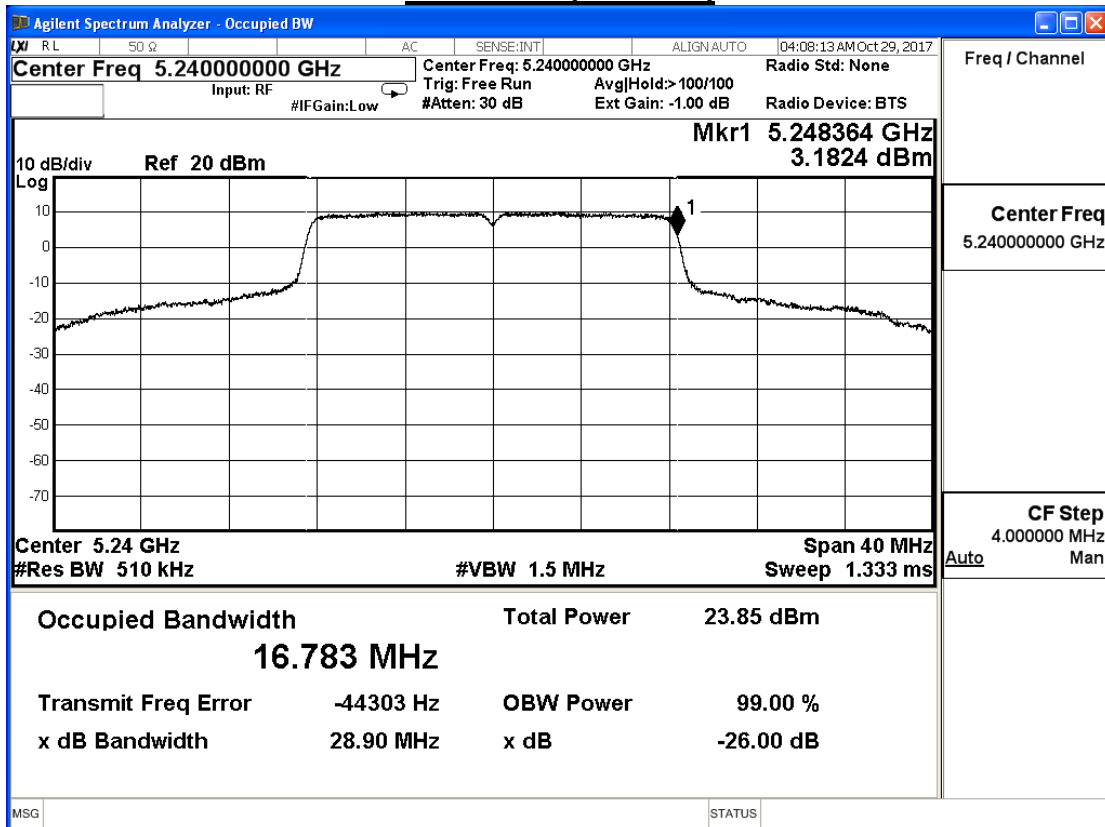
Channel 36 (5180MHz)



Channel 44 (5220MHz)



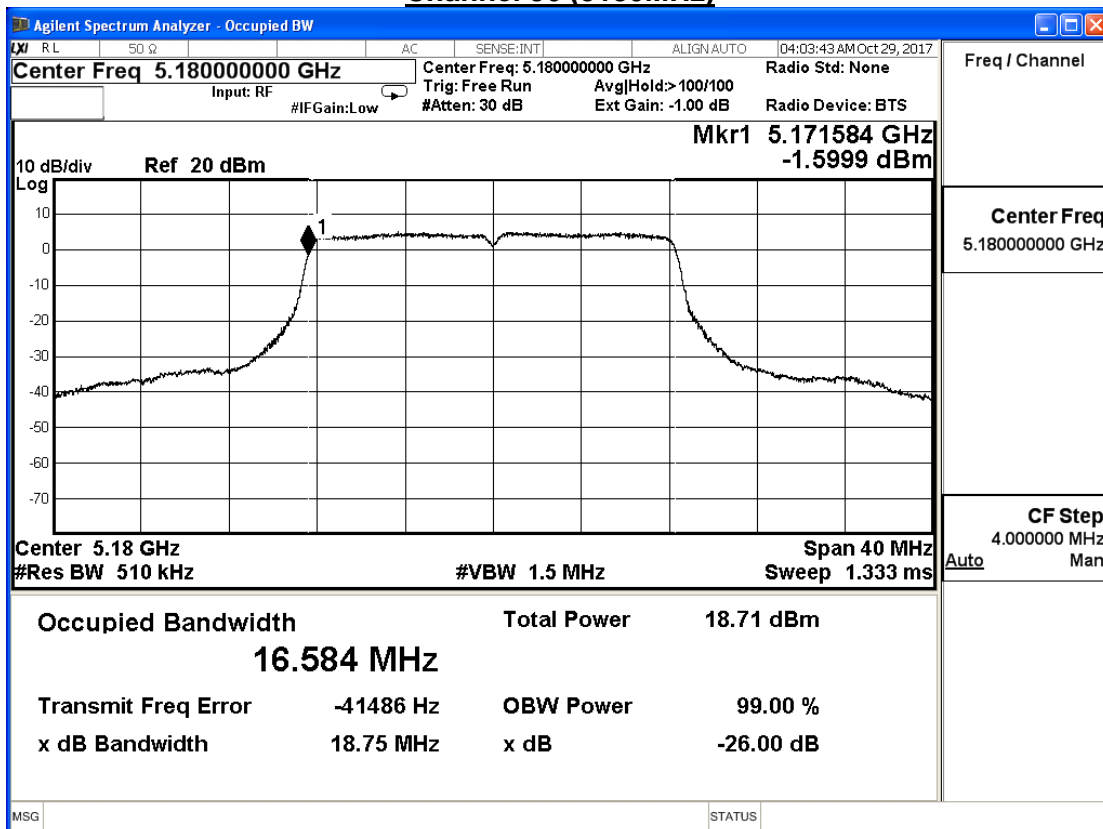
Channel 48 (5240MHz)



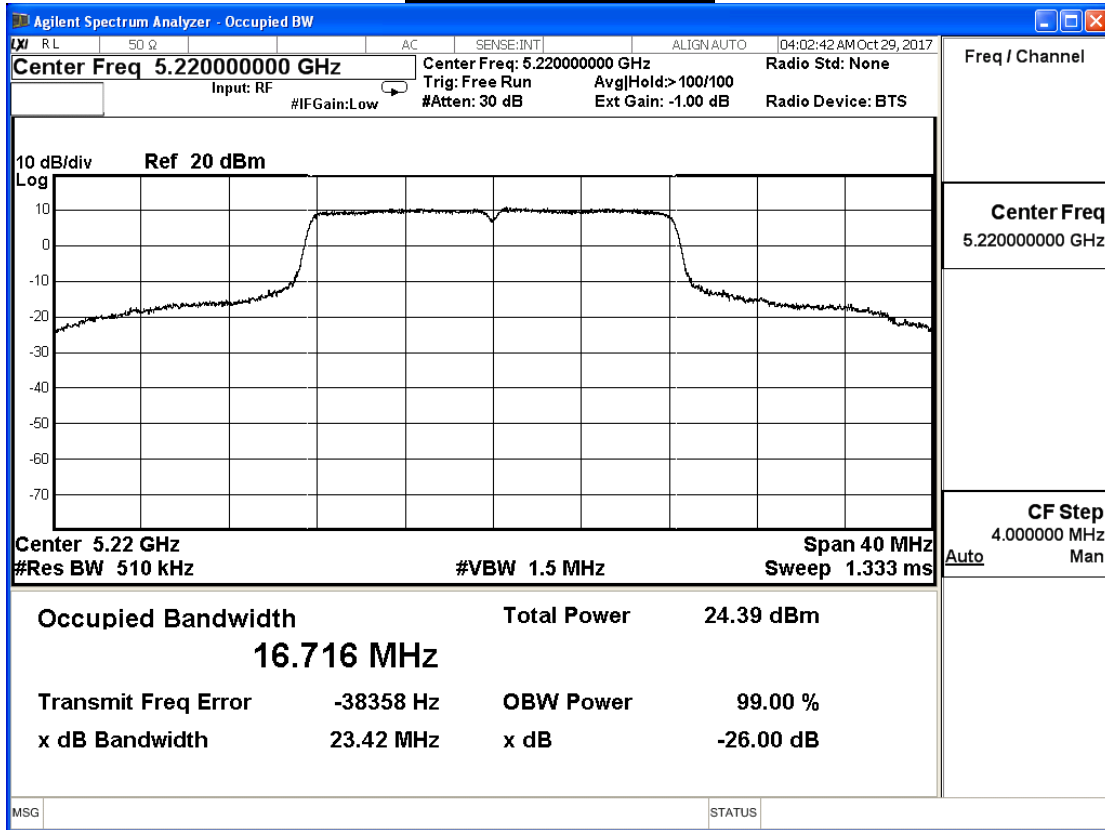
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11a (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	18.750	16.584	--
44	5220	23.420	16.716	--
48	5240	26.710	16.738	--

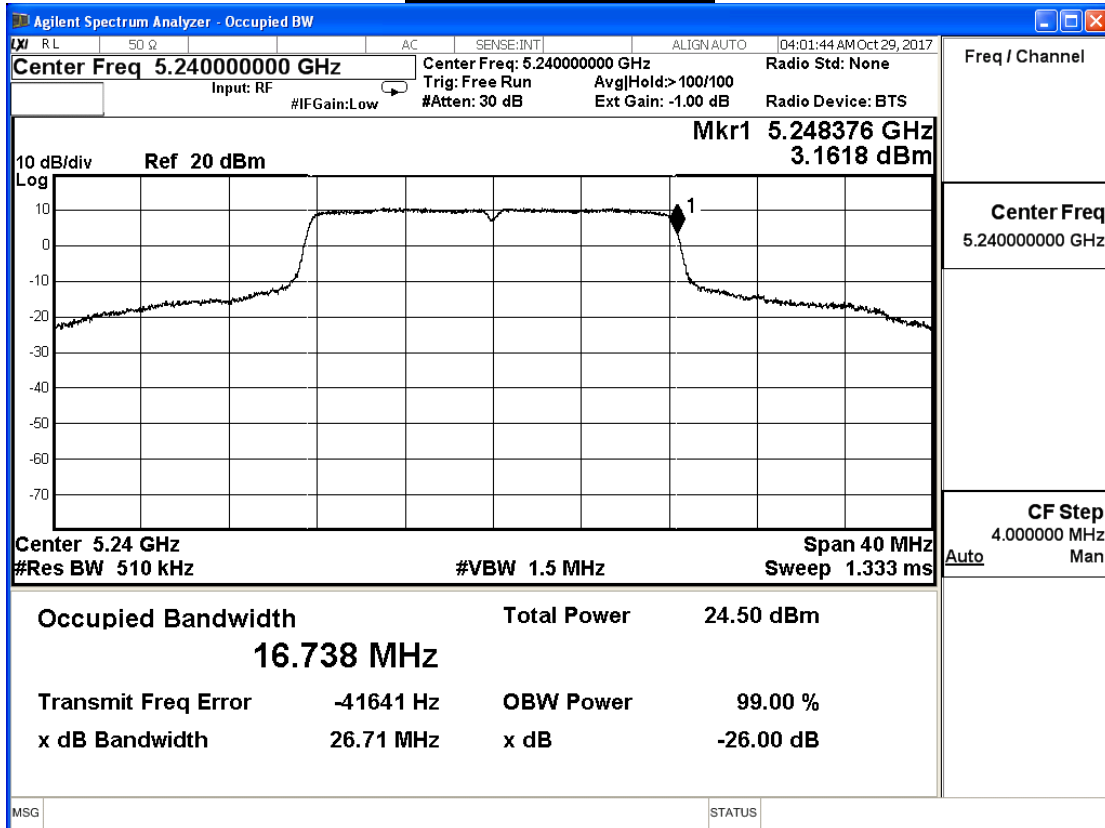
Channel 36 (5180MHz)



Channel 44 (5220MHz)



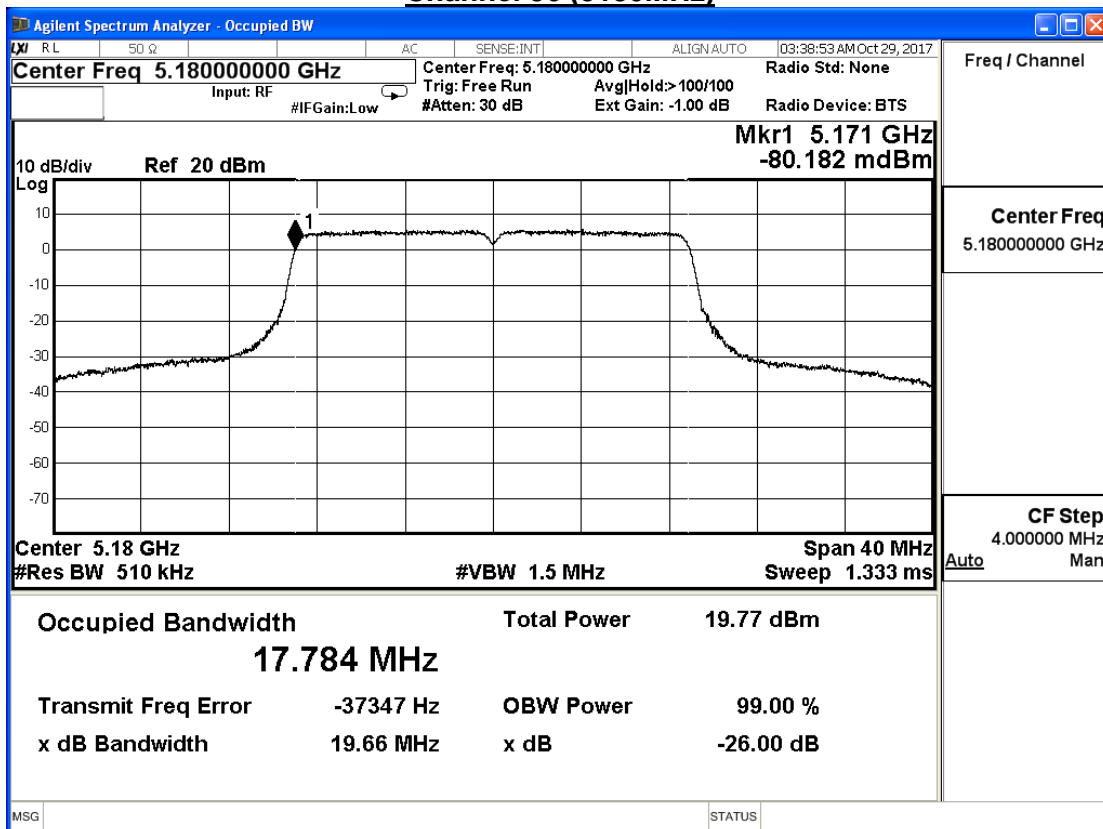
Channel 48 (5240MHz)



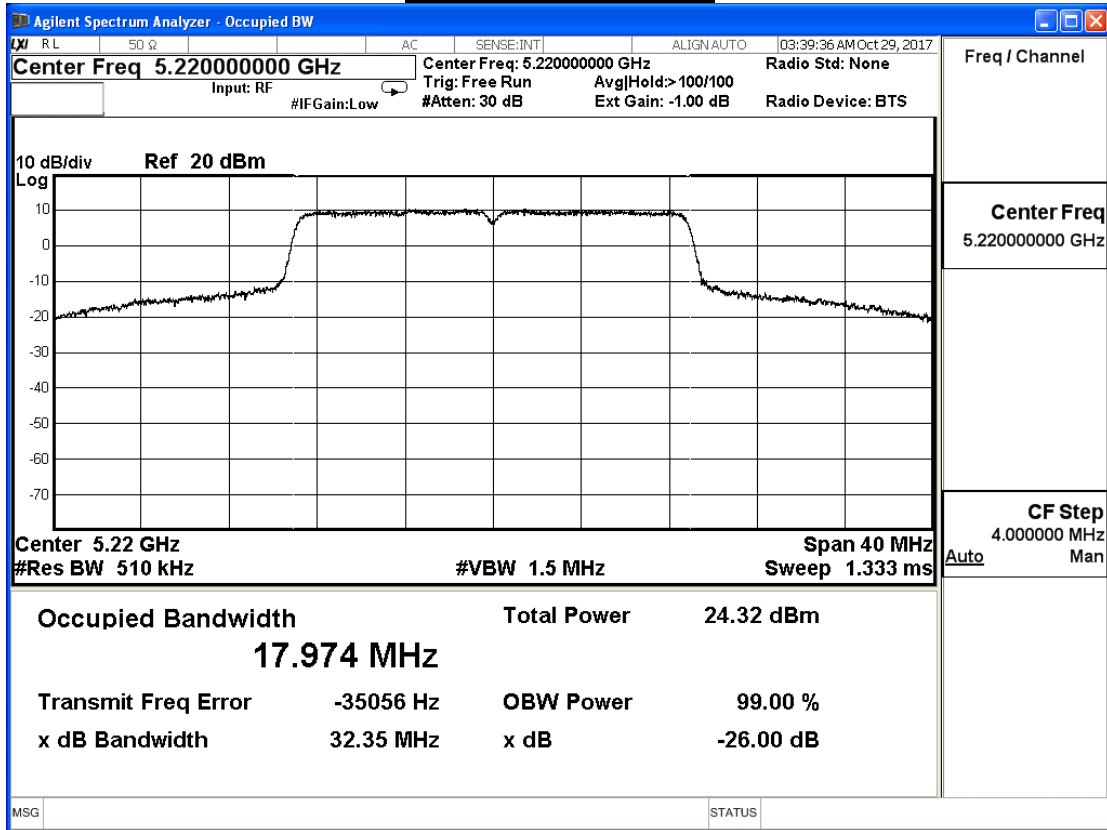
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	19.660	17.784	--
44	5220	32.350	17.974	--
48	5240	28.500	17.932	--

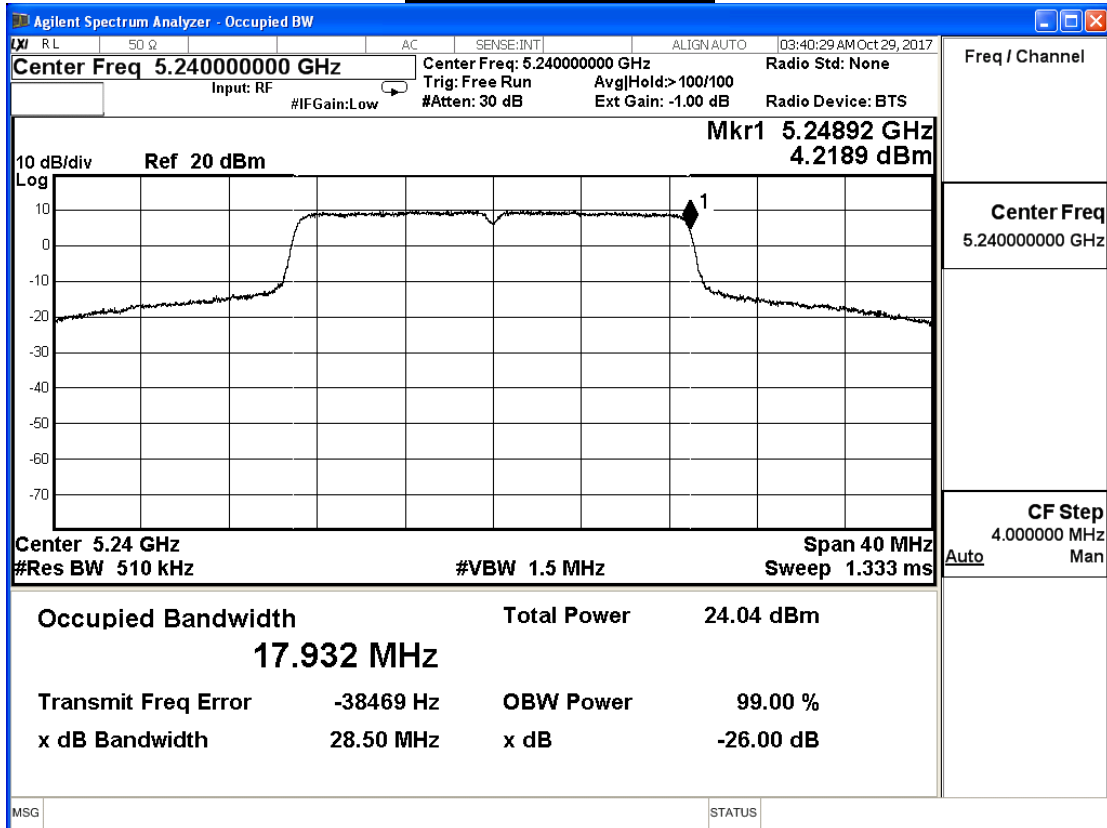
Channel 36 (5180MHz)



Channel 44 (5220MHz)



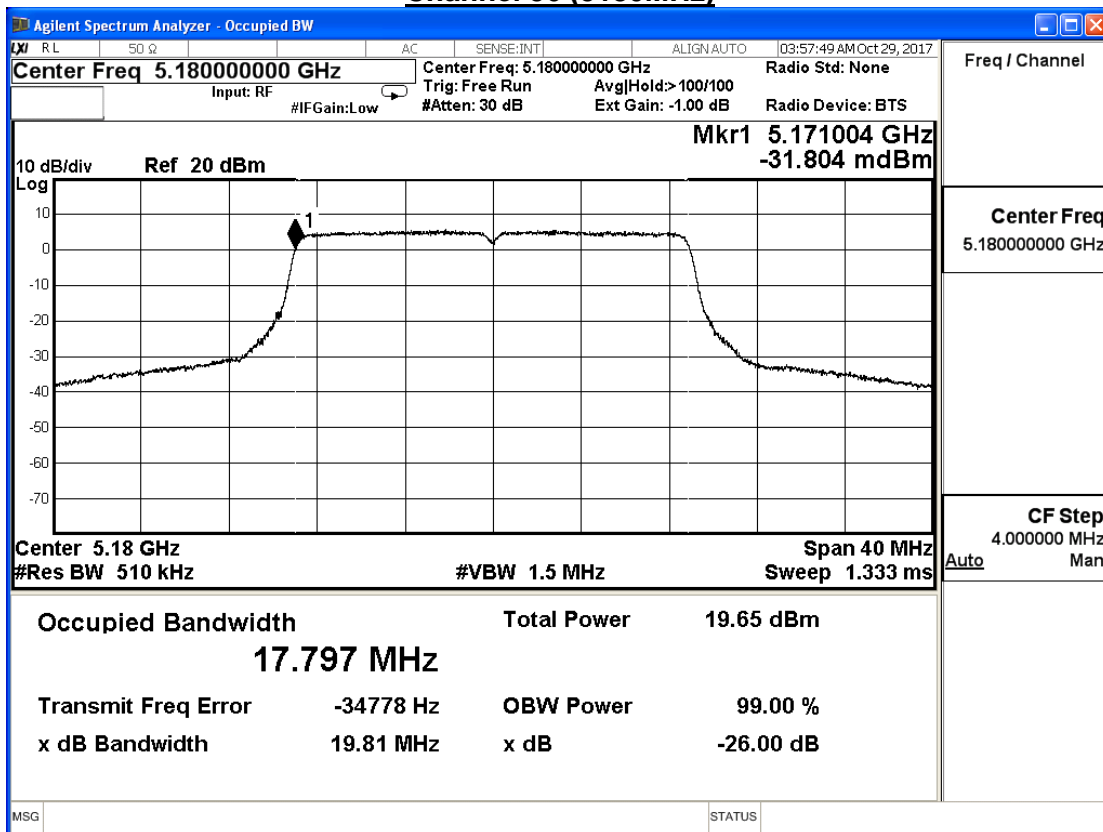
Channel 48 (5240MHz)



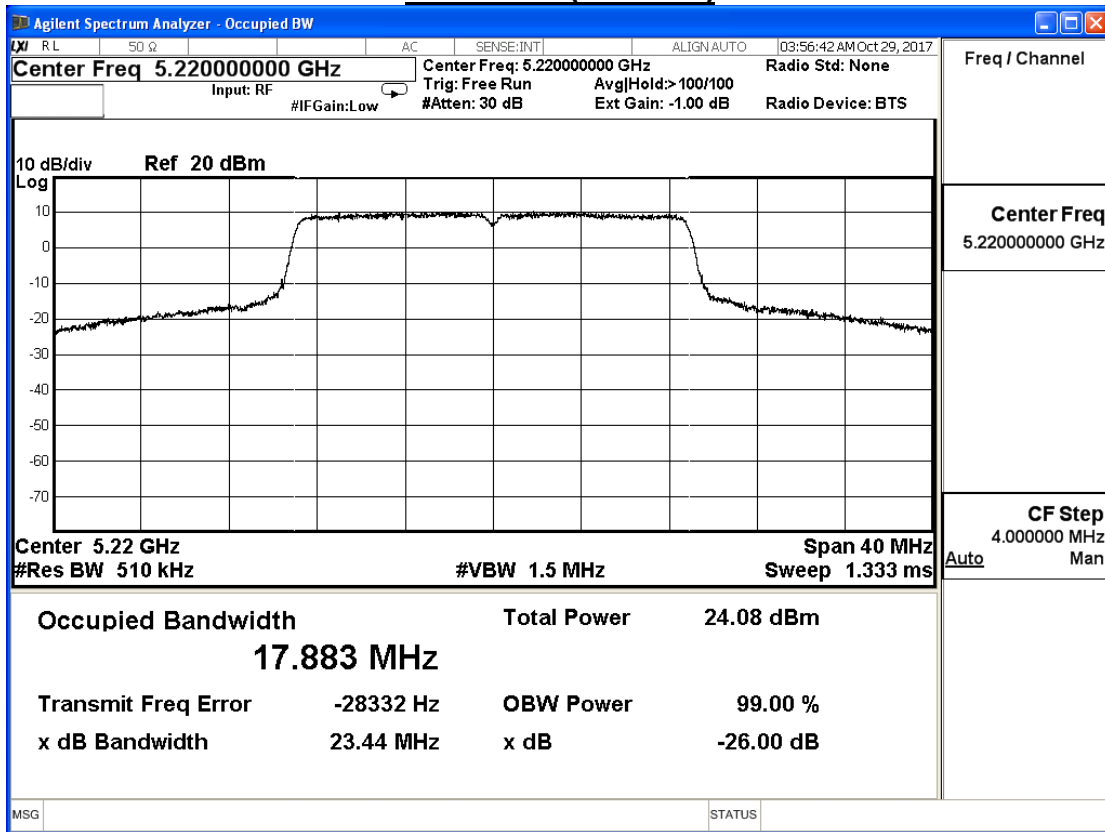
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	19.810	17.797	--
44	5220	23.440	17.883	--
48	5240	23.120	17.891	--

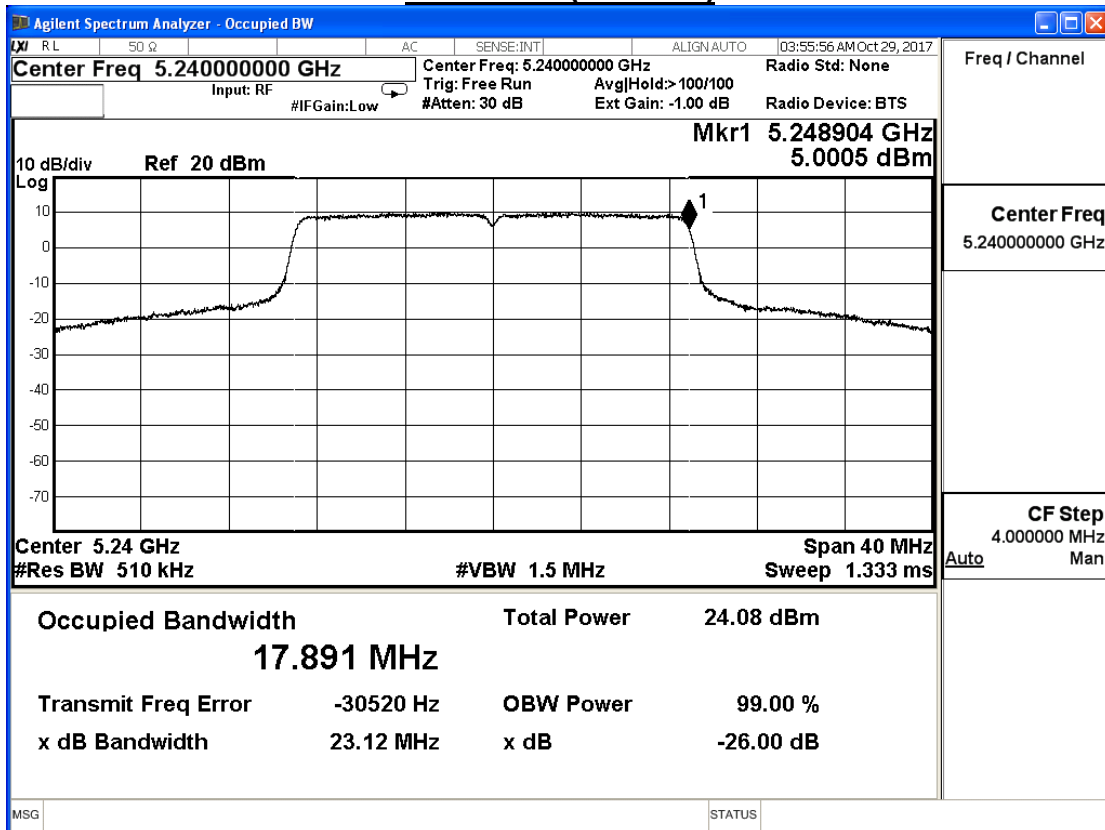
Channel 36 (5180MHz)



Channel 44 (5220MHz)



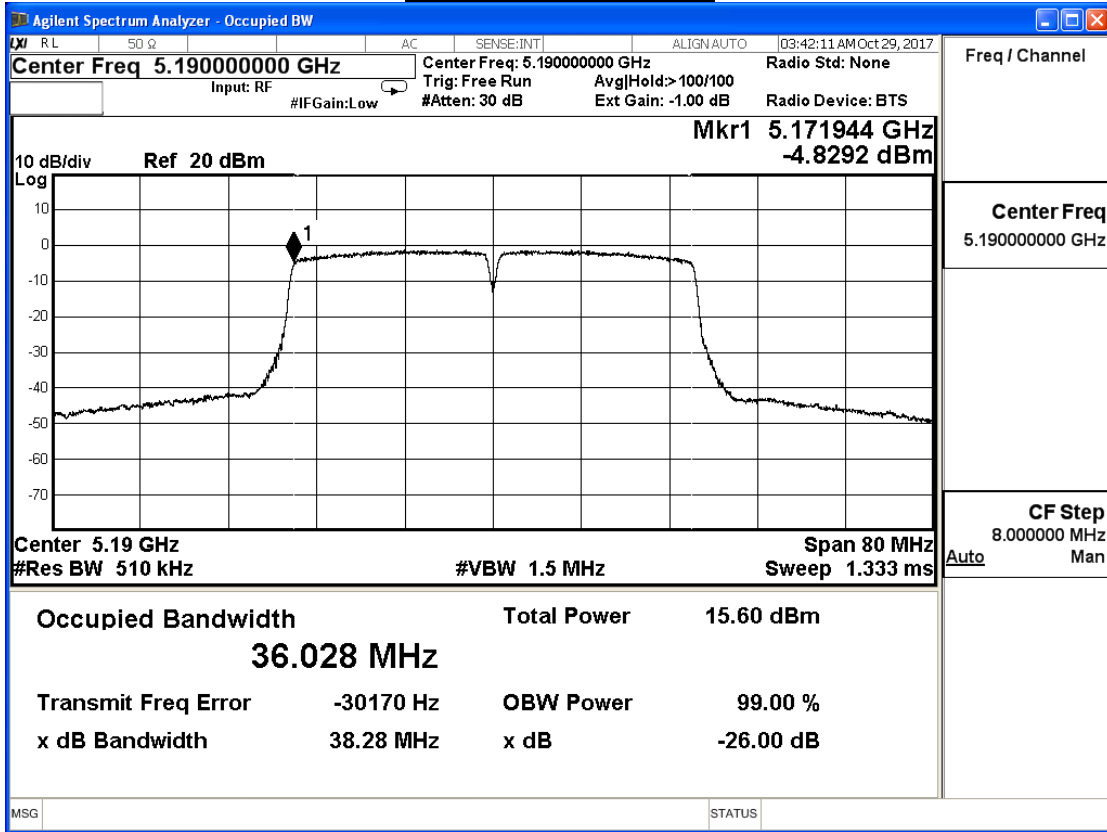
Channel 48 (5240MHz)



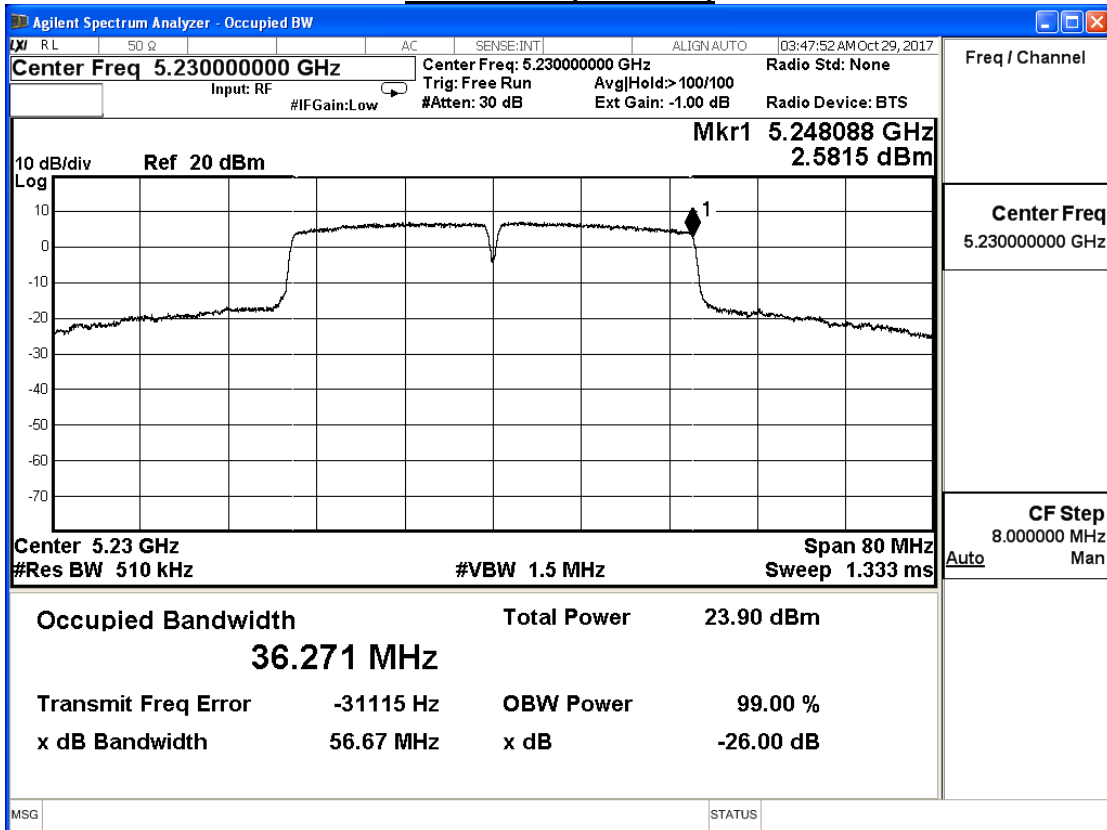
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	38.280	36.028	--
46	5230	56.670	36.271	--

Channel 38 (5190MHz)



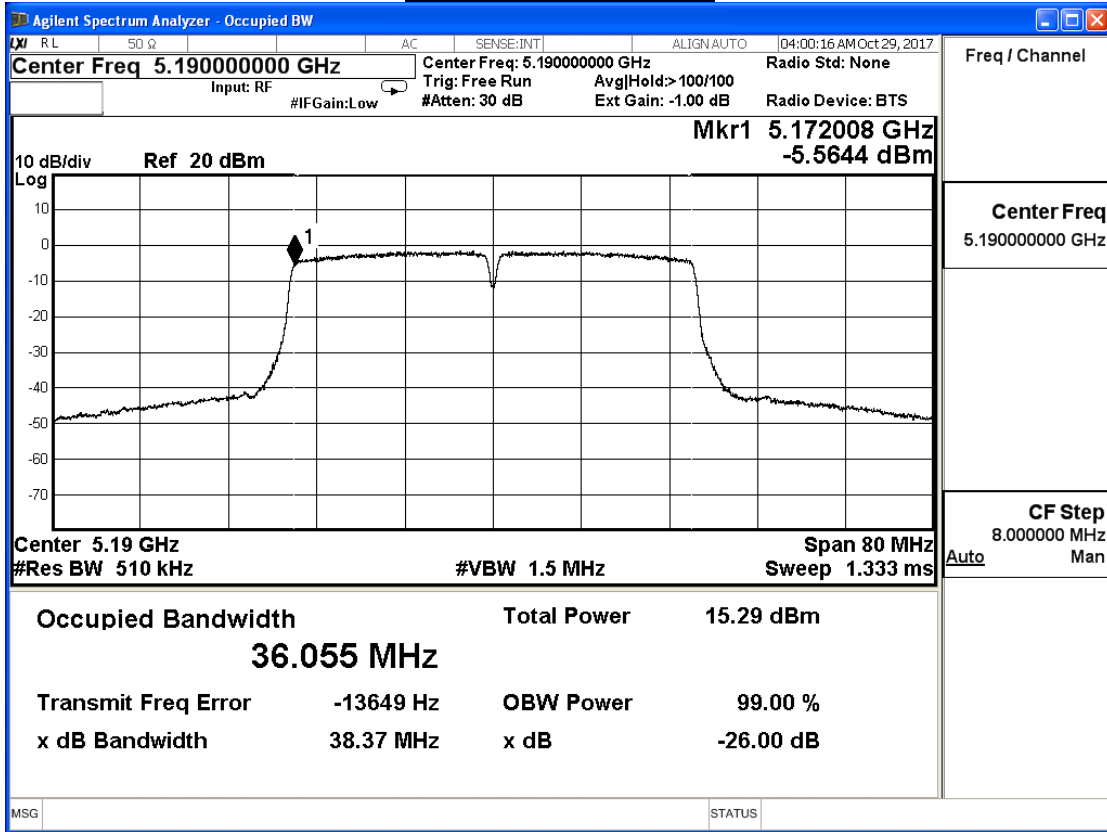
Channel 46 (5230MHz)



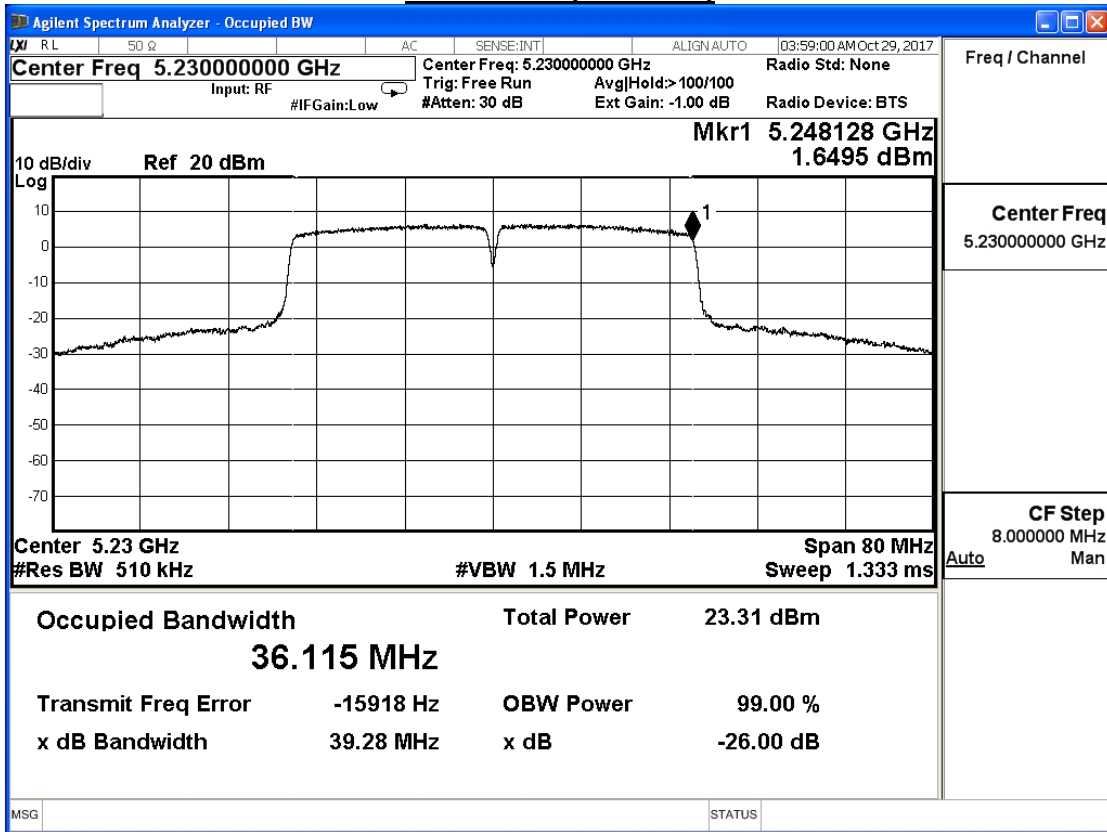
Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	38.370	36.055	--
46	5230	39.280	36.115	--

Channel 38 (5190MHz)



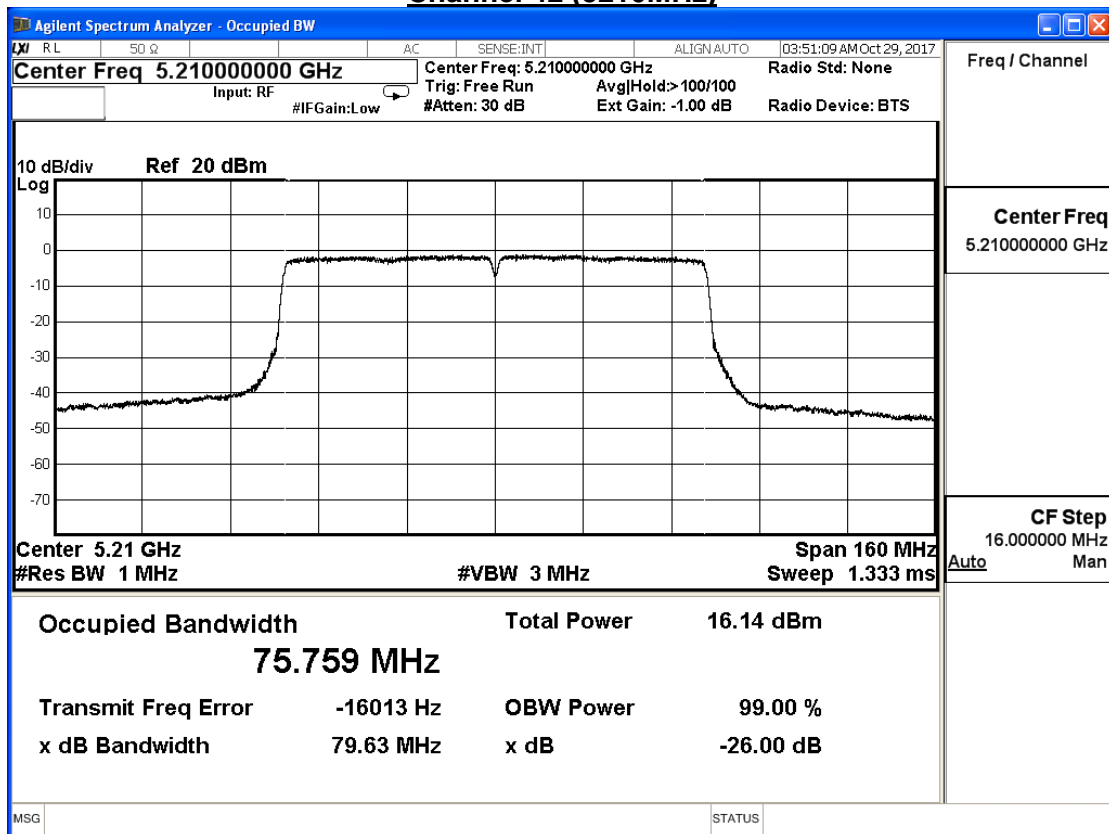
Channel 46 (5230MHz)



Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	79.630	75.759	--

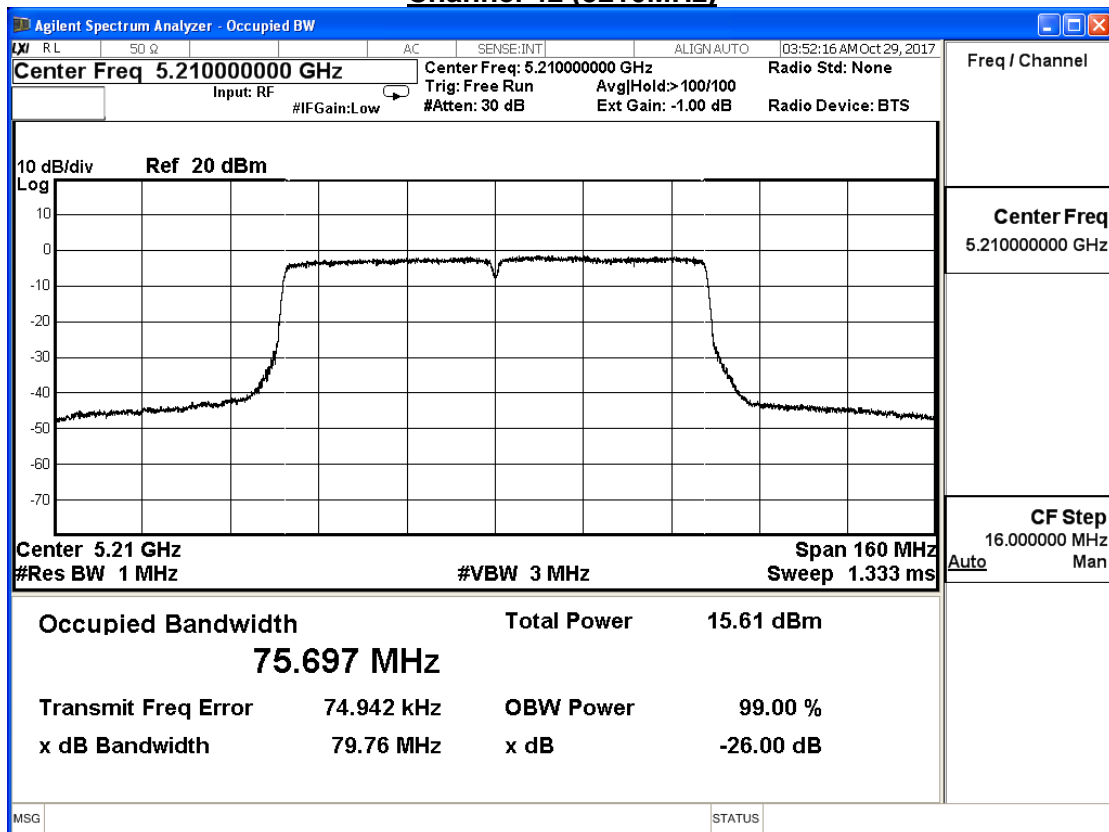
Channel 42 (5210MHz)



Product	Verizon Mesh Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/29	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	79.760	75.697	--

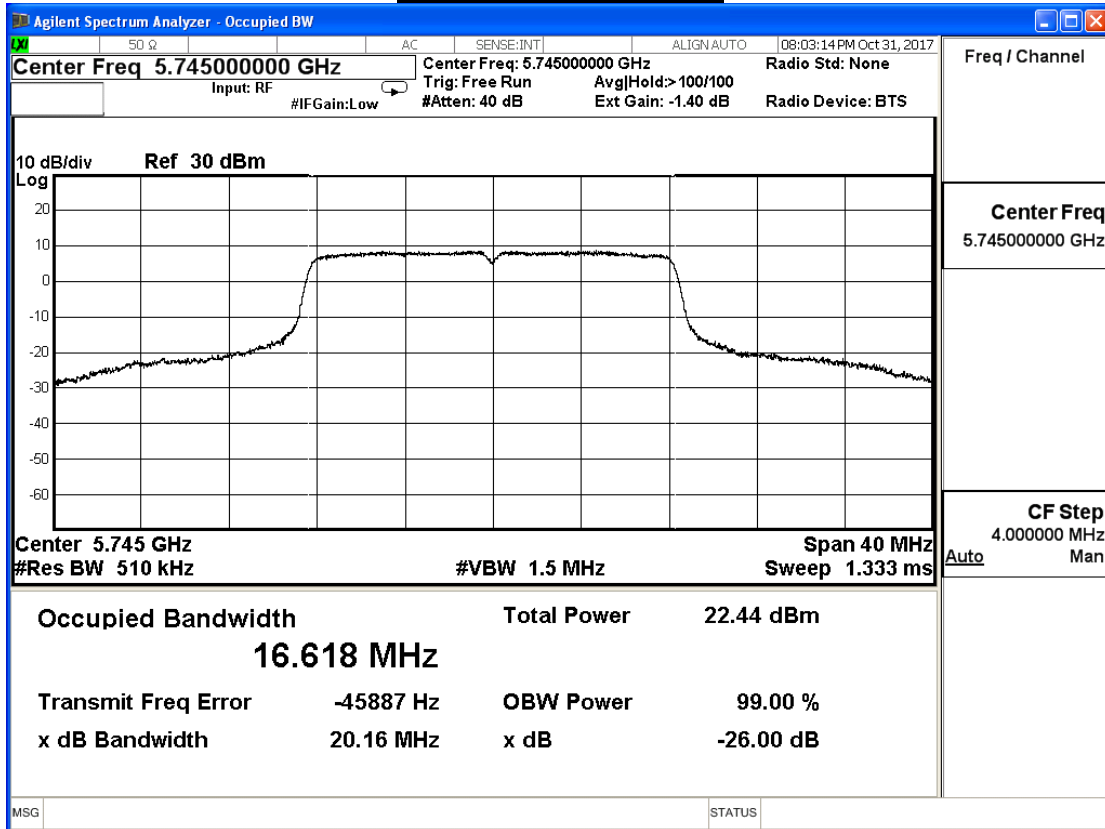
Channel 42 (5210MHz)



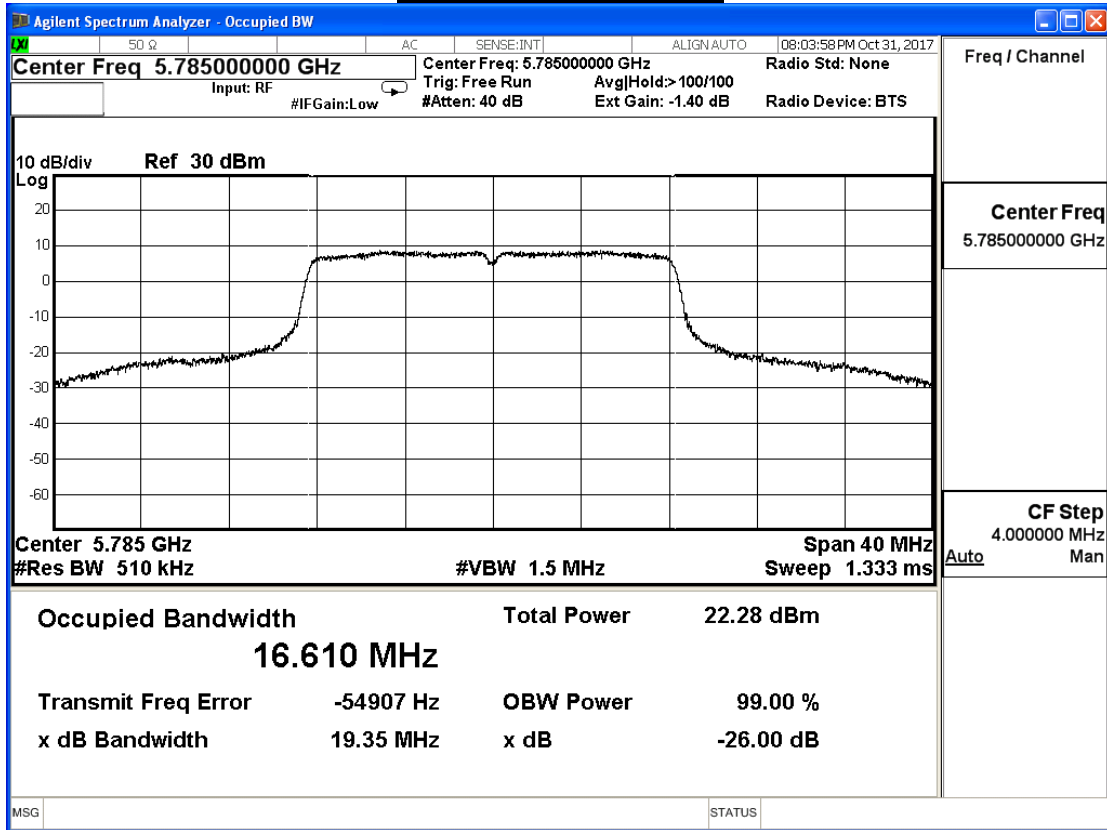
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

802.11a (ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	16.618	--
157	5785	16.610	--
165	5825	16.691	--

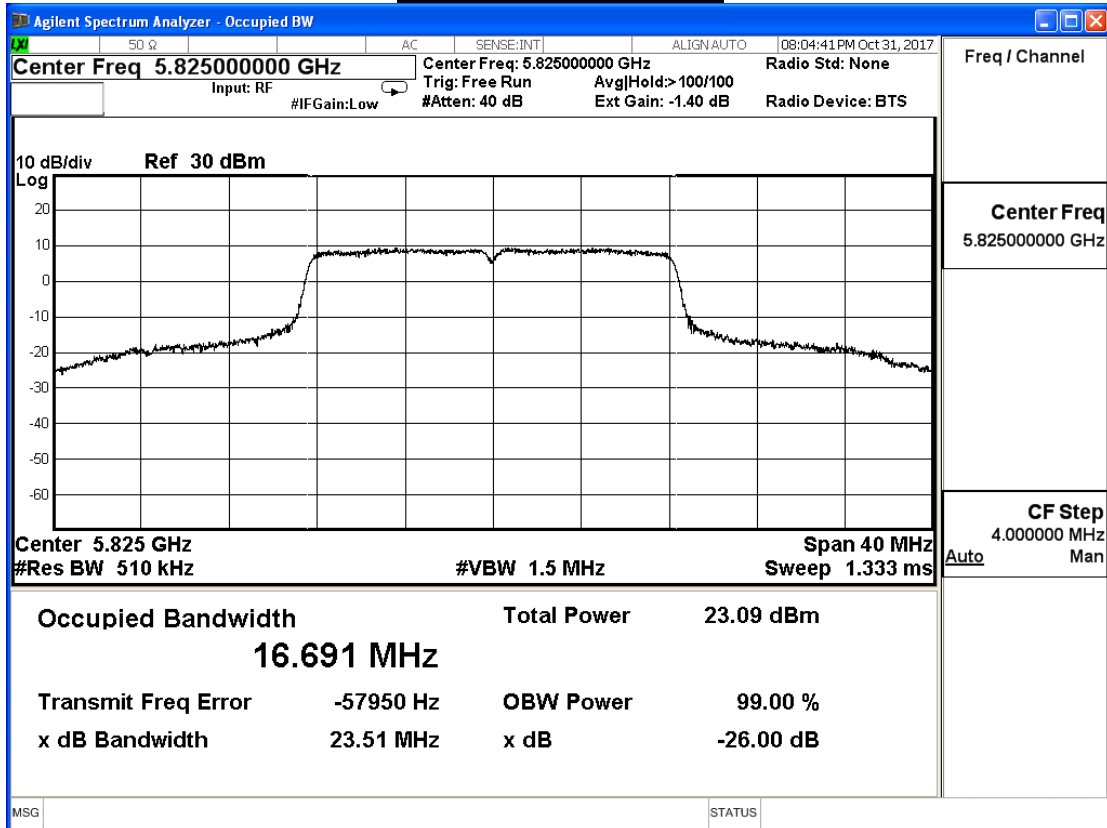
Channel 149 (5745MHz)



Channel 157 (5785MHz)



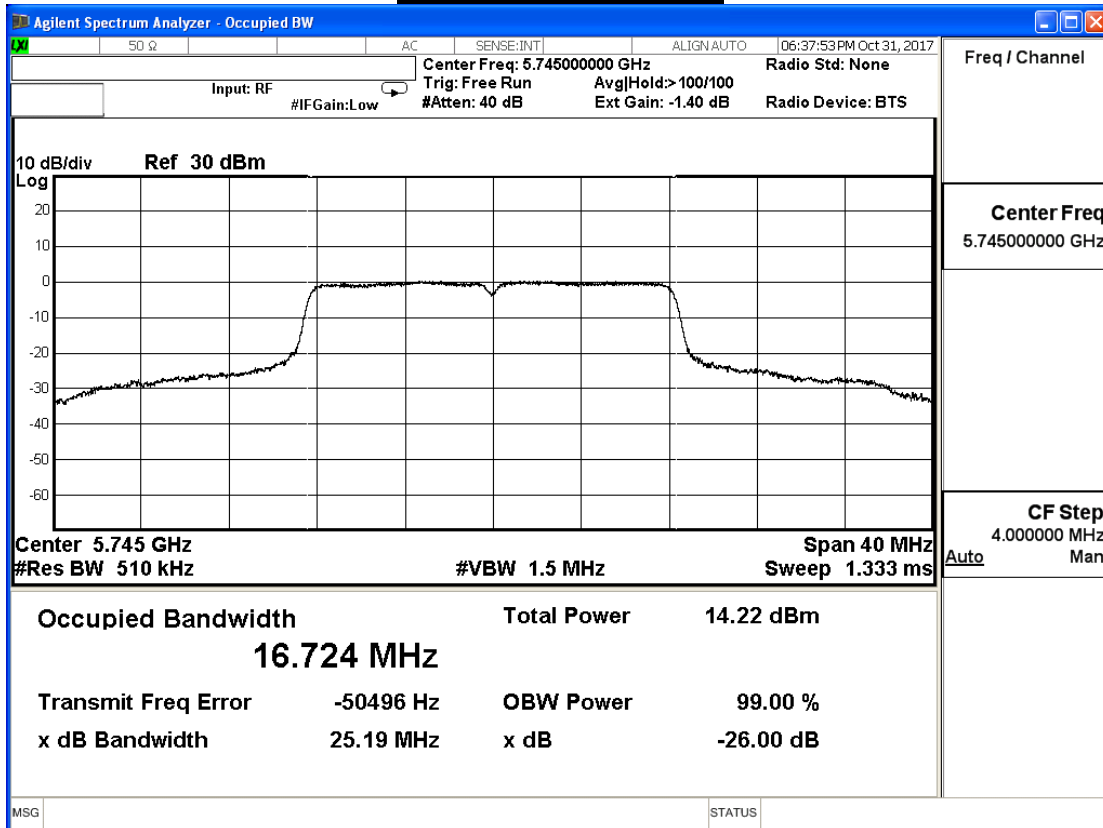
Channel 165 (5825MHz)



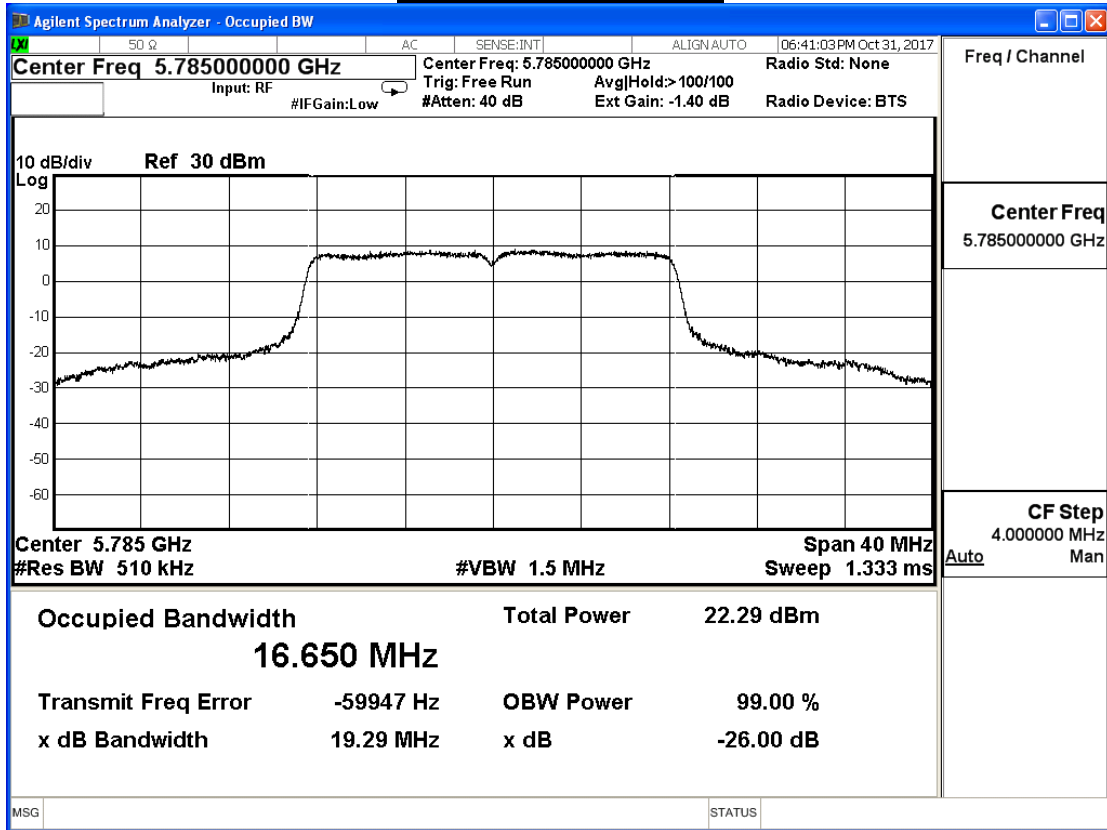
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

802.11a (ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	16.724	--
157	5785	16.650	--
165	5825	16.823	--

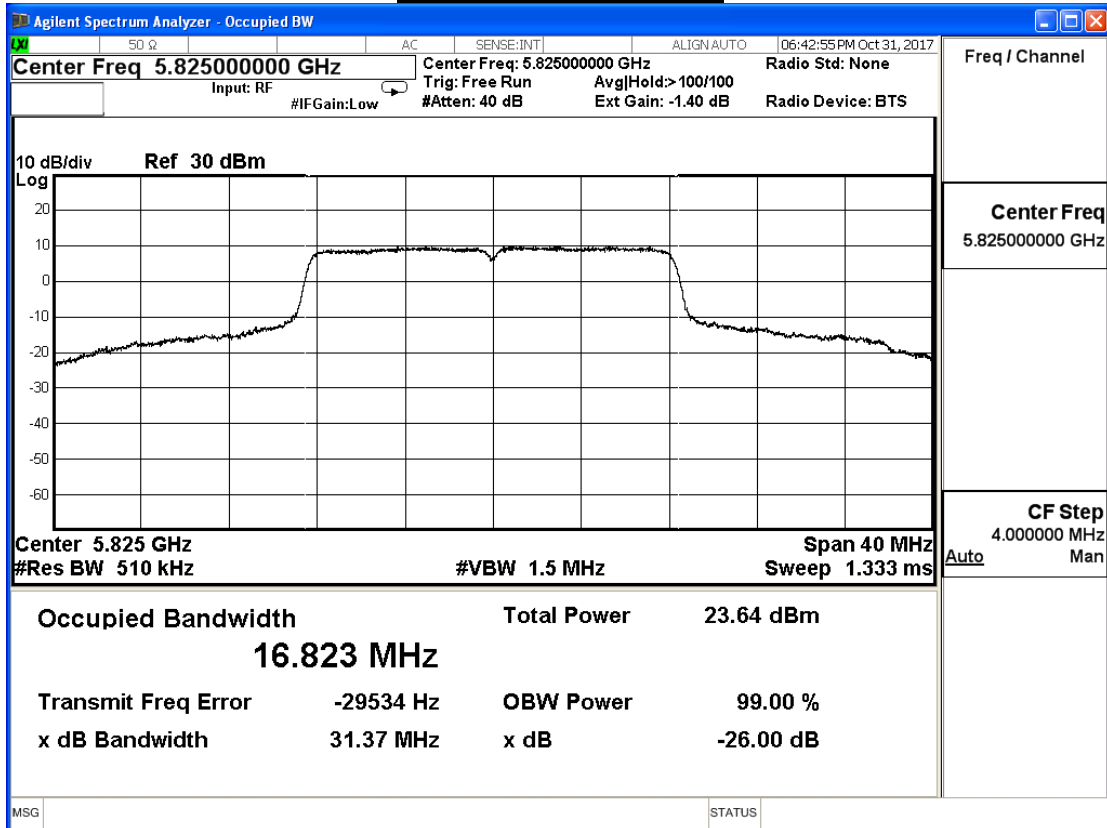
Channel 149 (5745MHz)



Channel 157 (5785MHz)



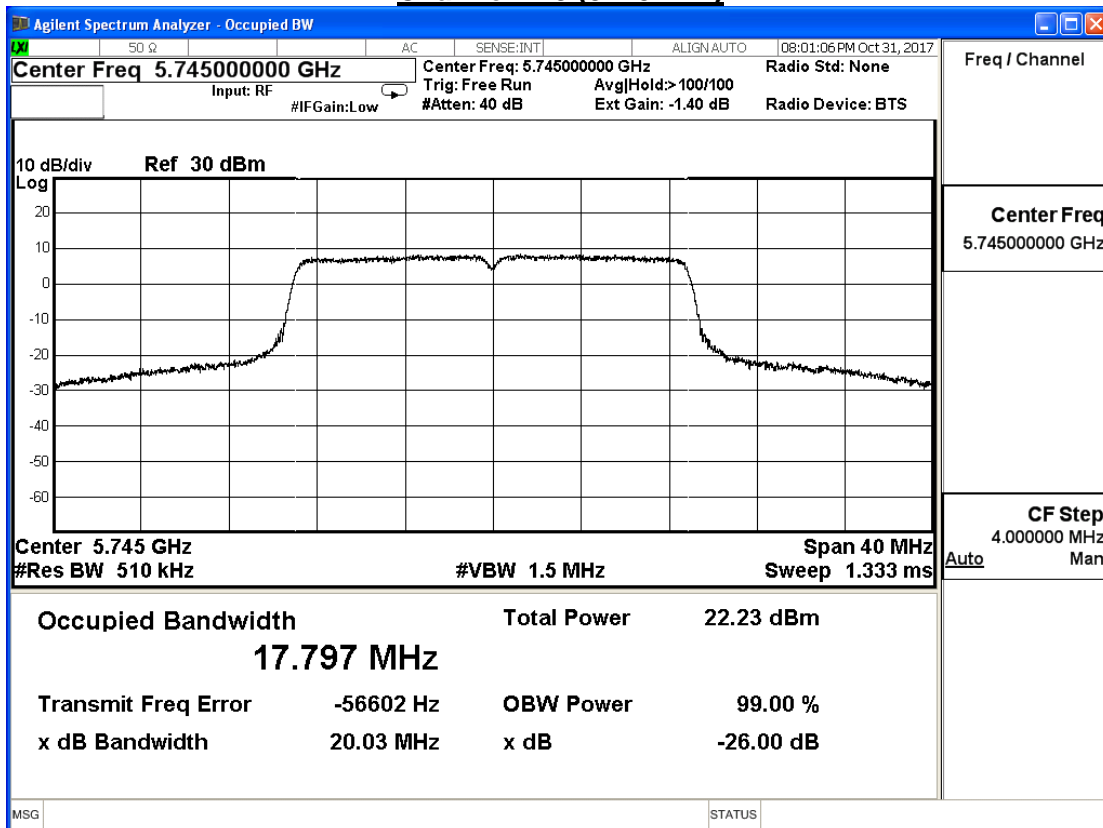
Channel 165 (5825MHz)



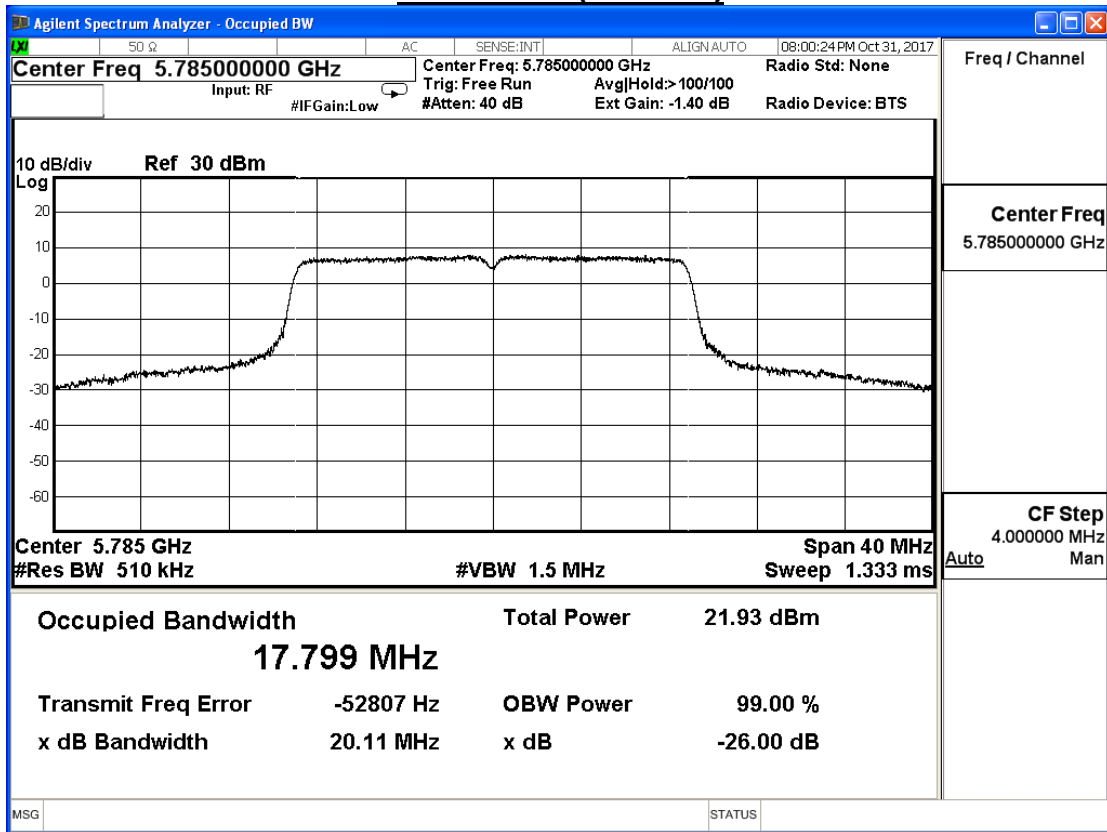
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	17.797	--
157	5785	17.799	--
165	5825	17.829	--

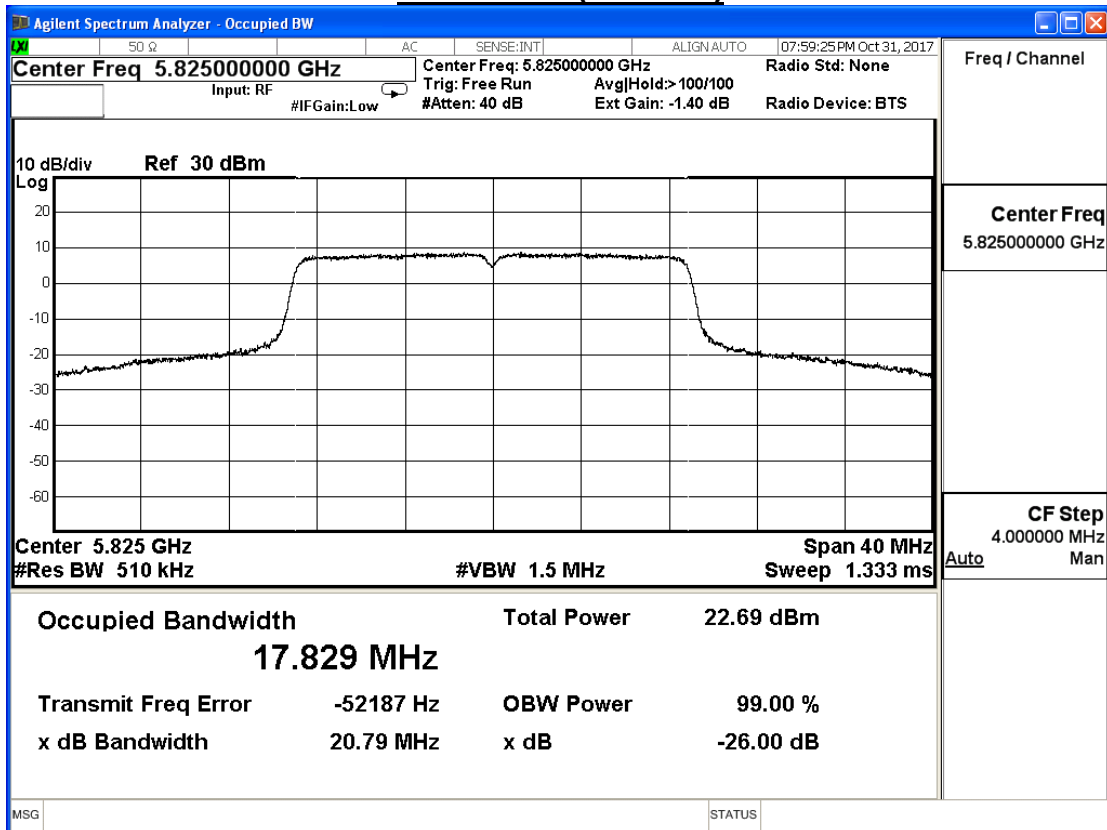
Channel 149 (5745MHz)



Channel 157 (5785MHz)



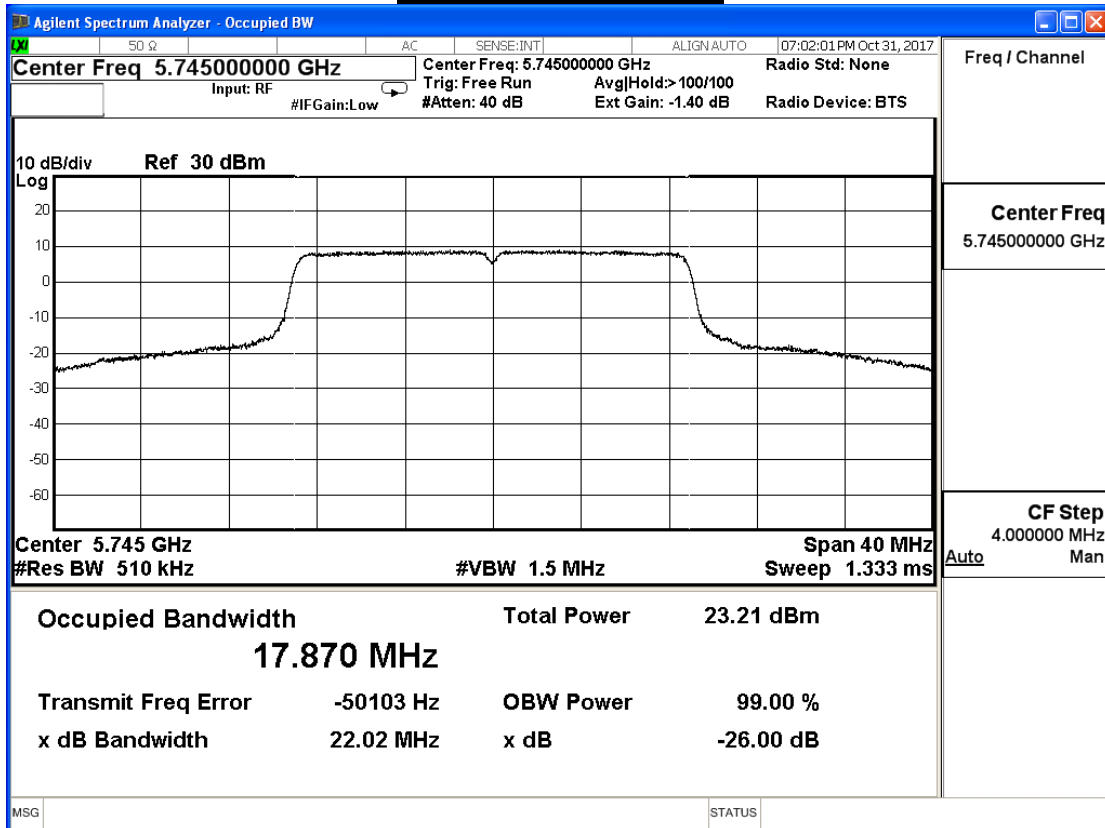
Channel 165 (5825MHz)



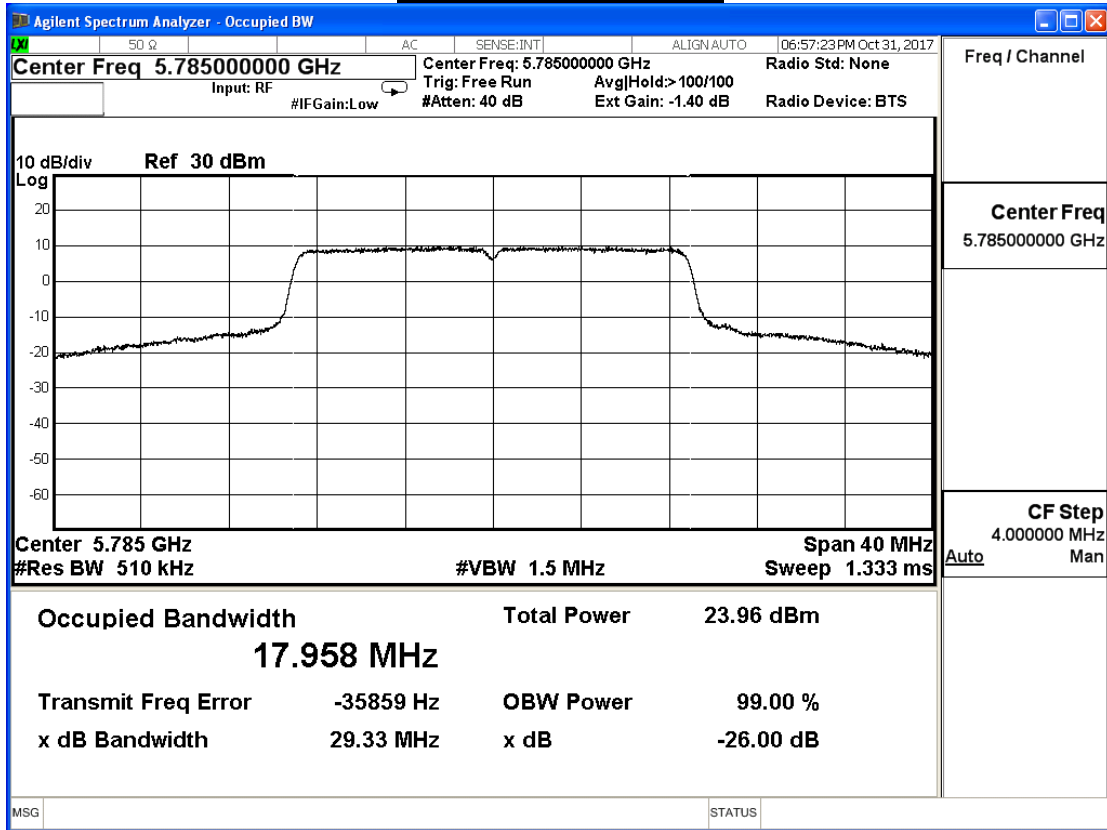
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	17.870	--
157	5785	17.958	--
165	5825	18.069	--

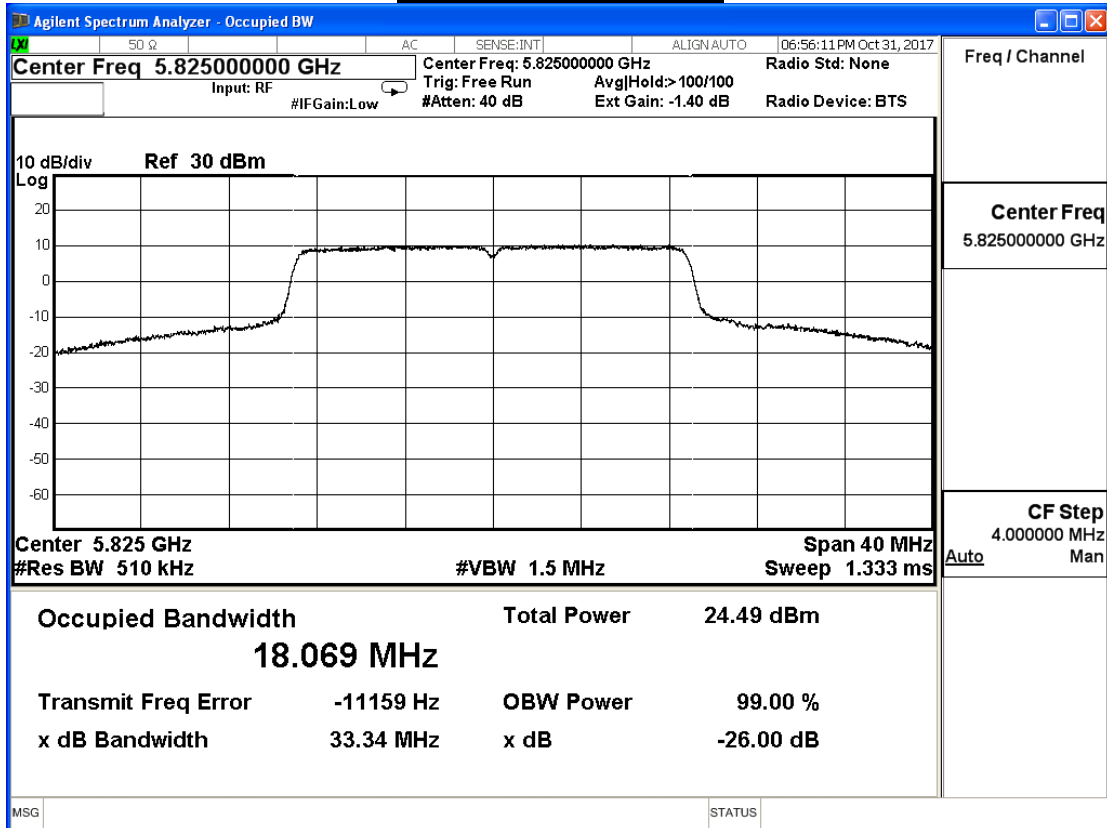
Channel 149 (5745MHz)



Channel 157 (5785MHz)



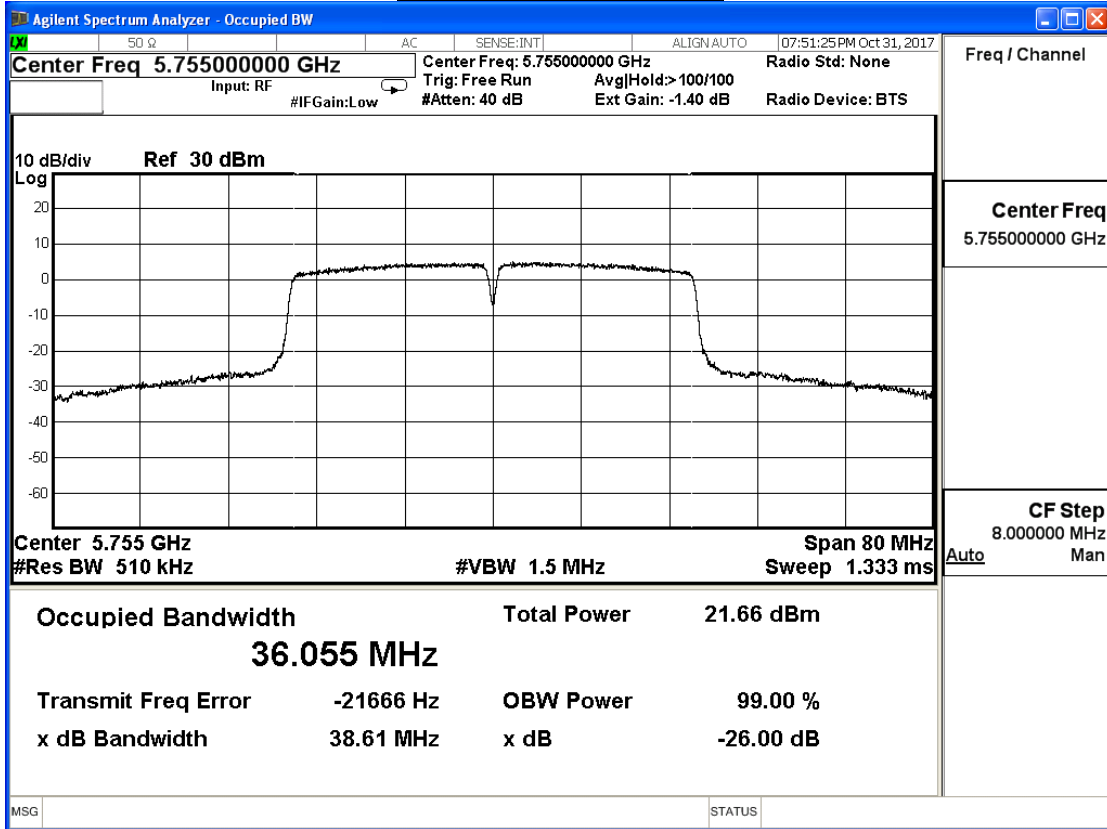
Channel 165 (5825MHz)



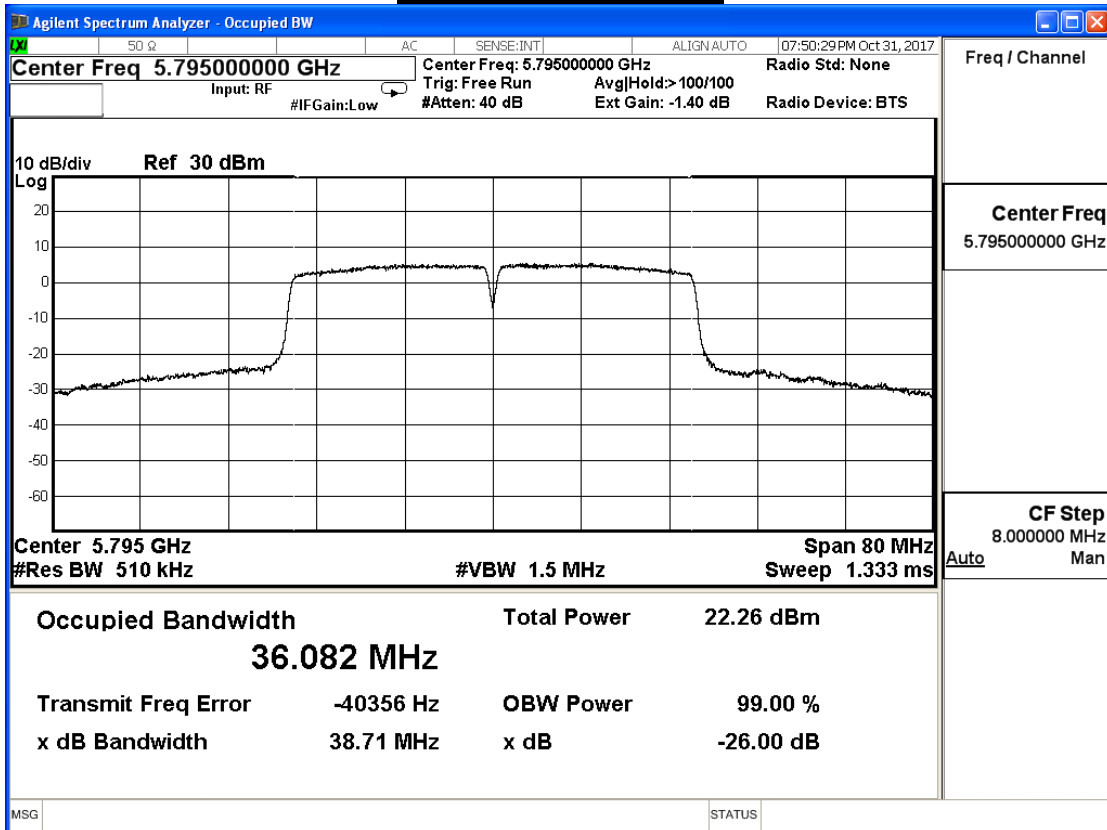
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
151	5755	36.055	--
159	5795	36.082	--

Channel 151 (5755MHz)



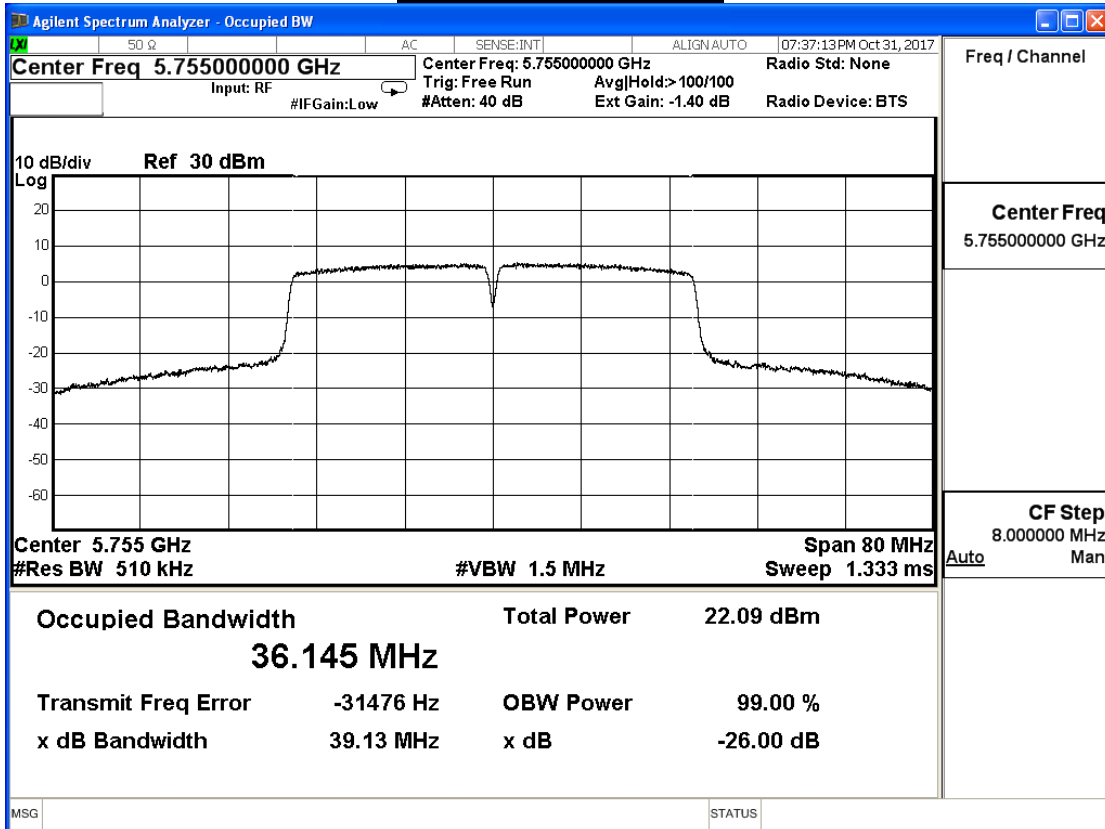
Channel 159 (5795MHz)



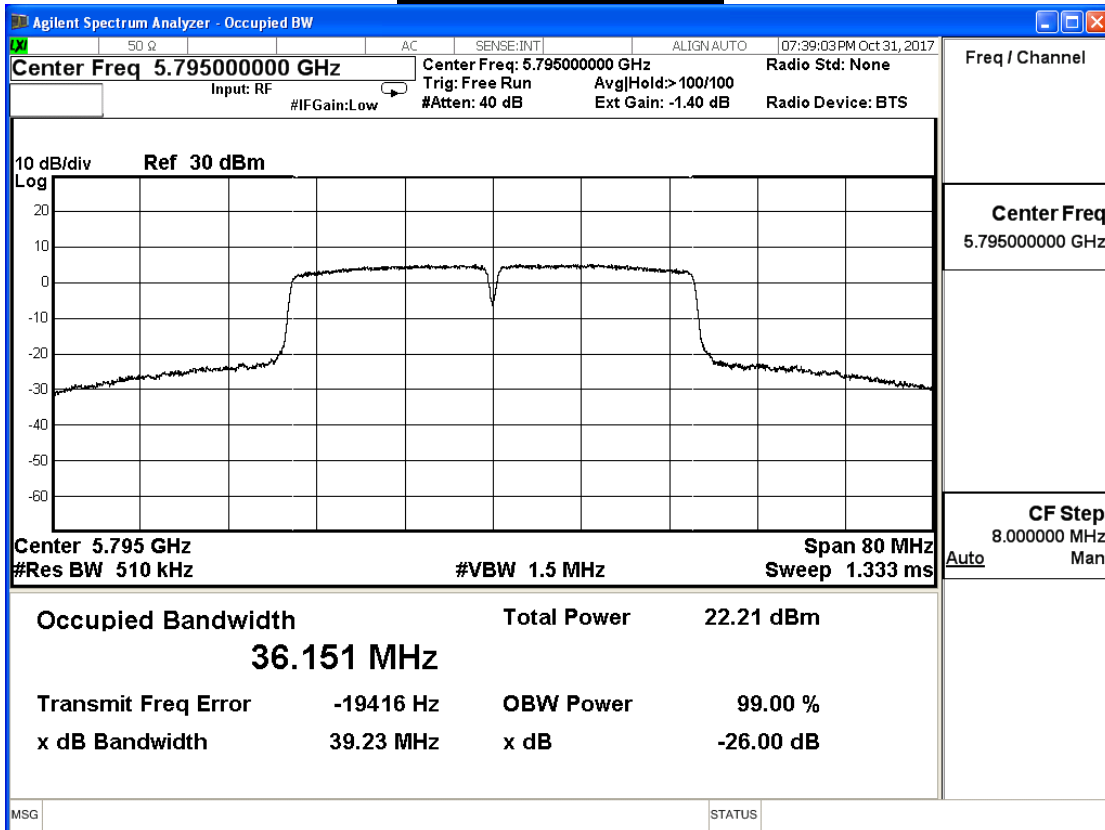
Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
151	5755	36.145	--
159	5795	36.151	--

Channel 151 (5755MHz)



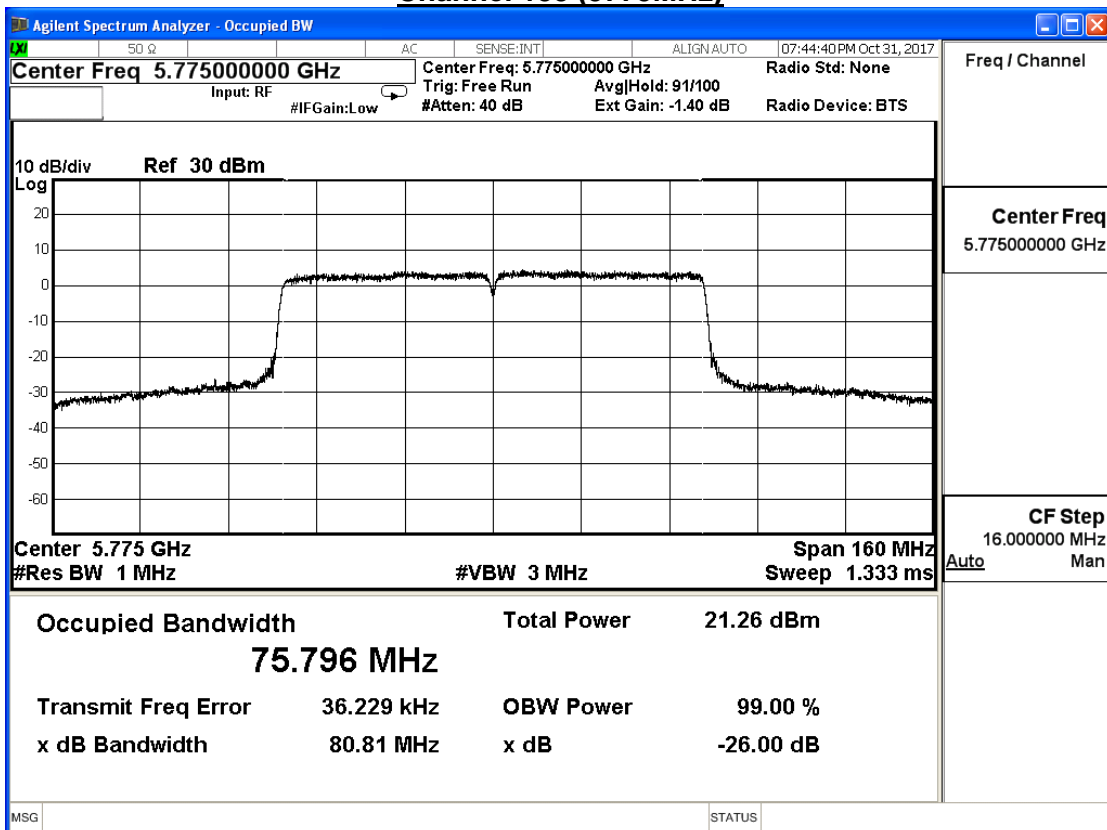
Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
155	5775	75.796	--

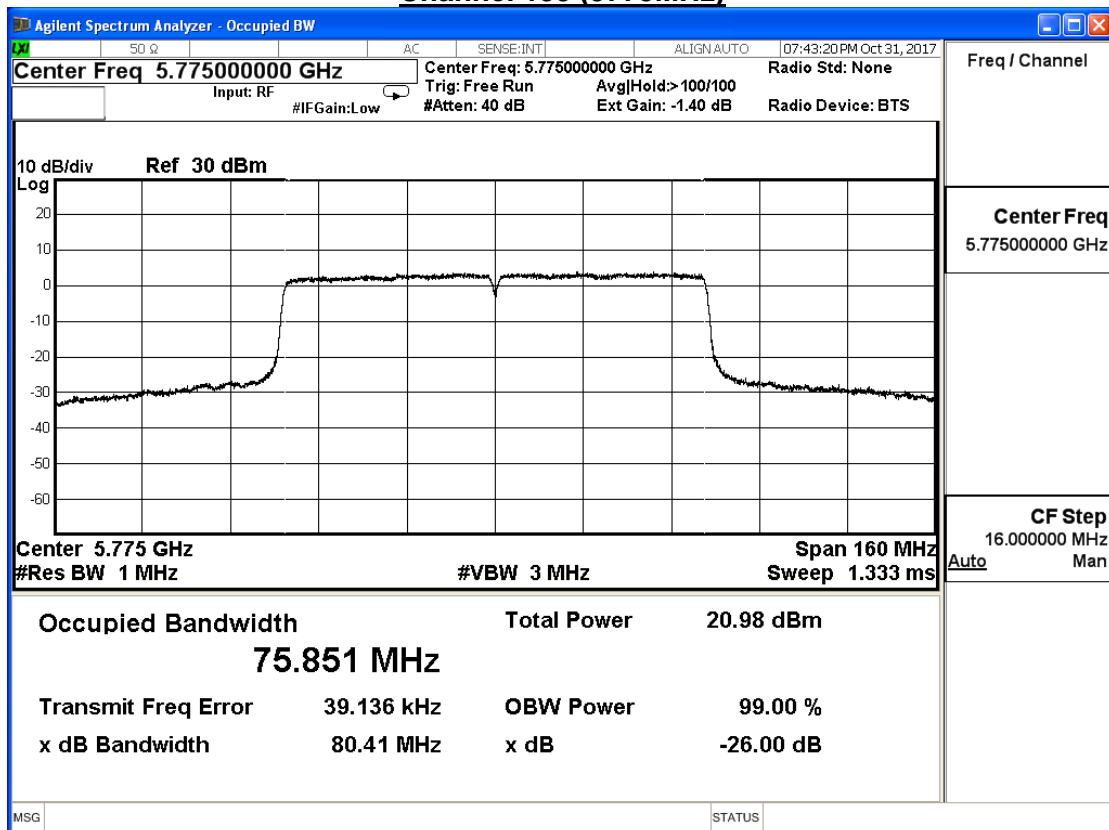
Channel 155 (5775MHz)



Product	Verizon Mesh Router		
Test Item	99% Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
155	5775	75.851	--

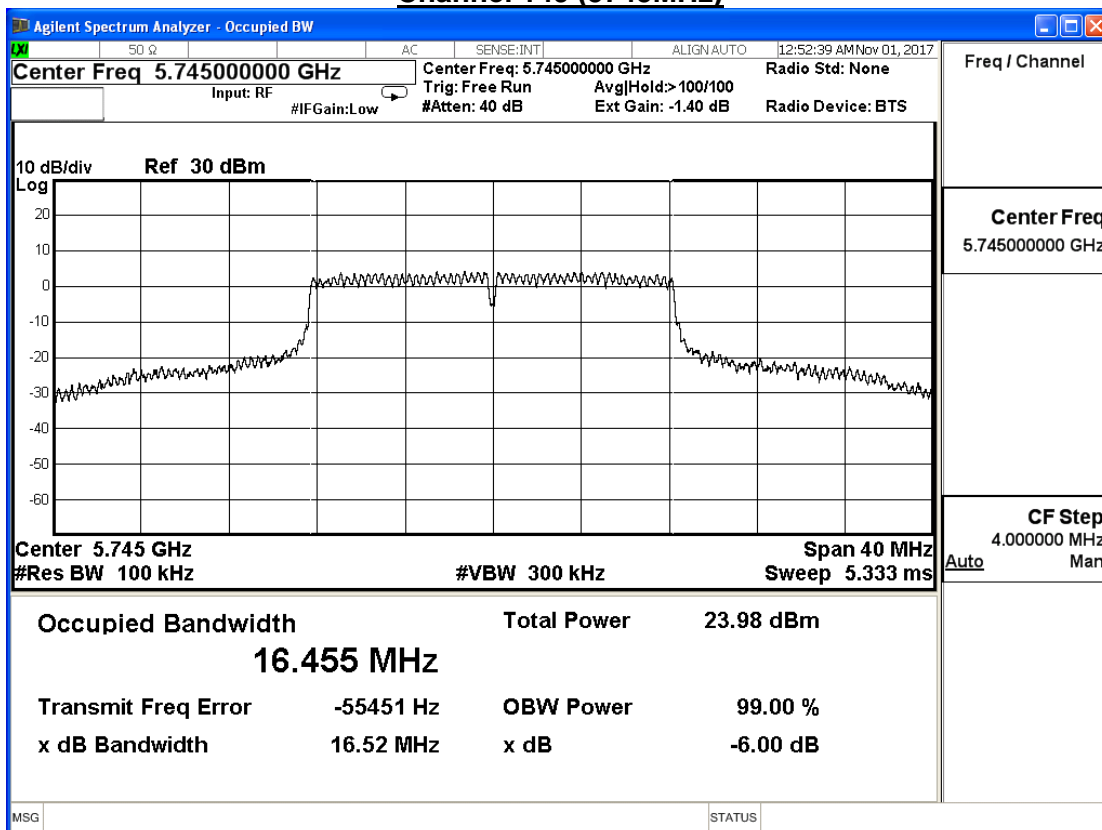
Channel 155 (5775MHz)



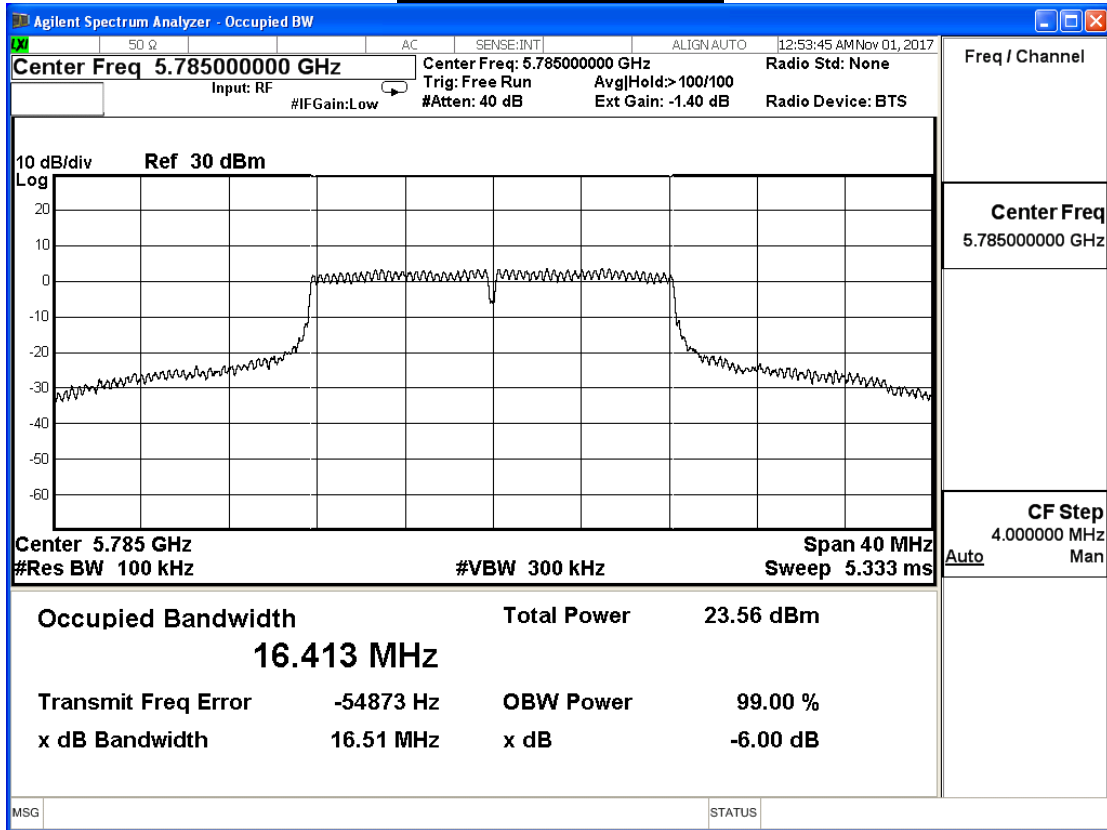
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/11/01	Test Site	SR10-H

802.11a (ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	16.520	≥ 0.5
157	5785	16.510	≥ 0.5
165	5825	16.520	≥ 0.5

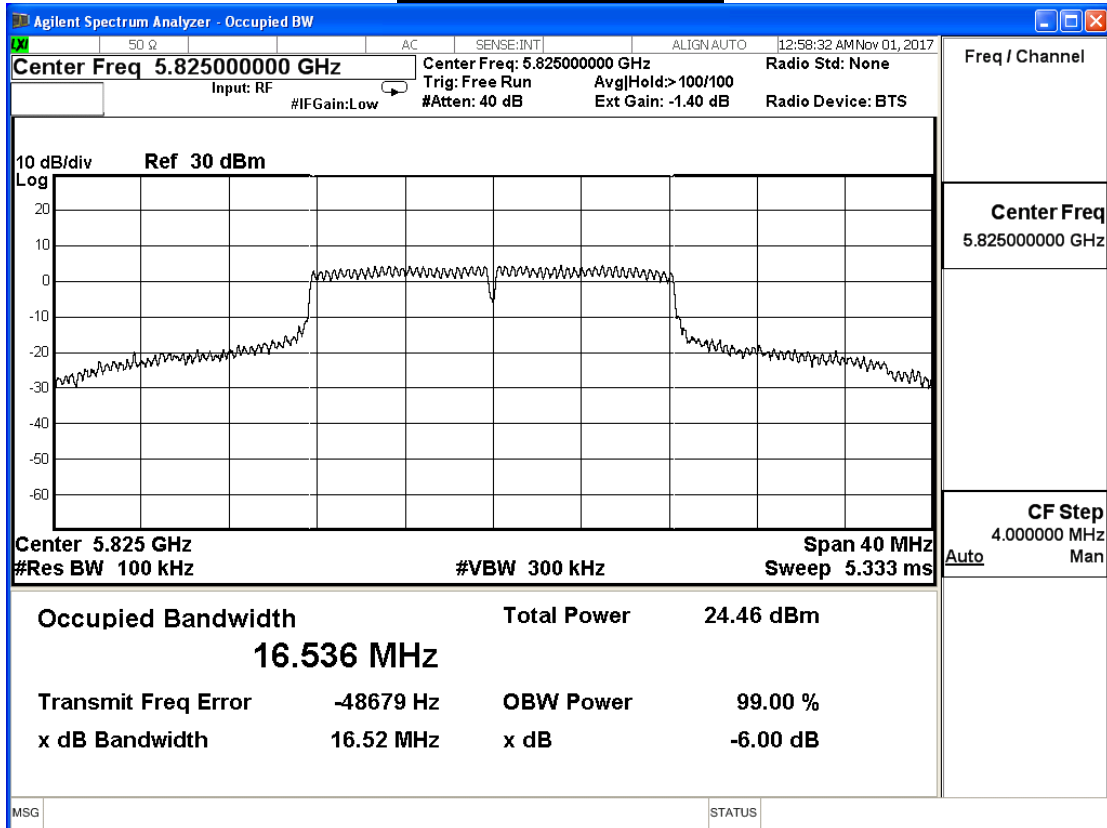
Channel 149 (5745MHz)



Channel 157 (5785MHz)



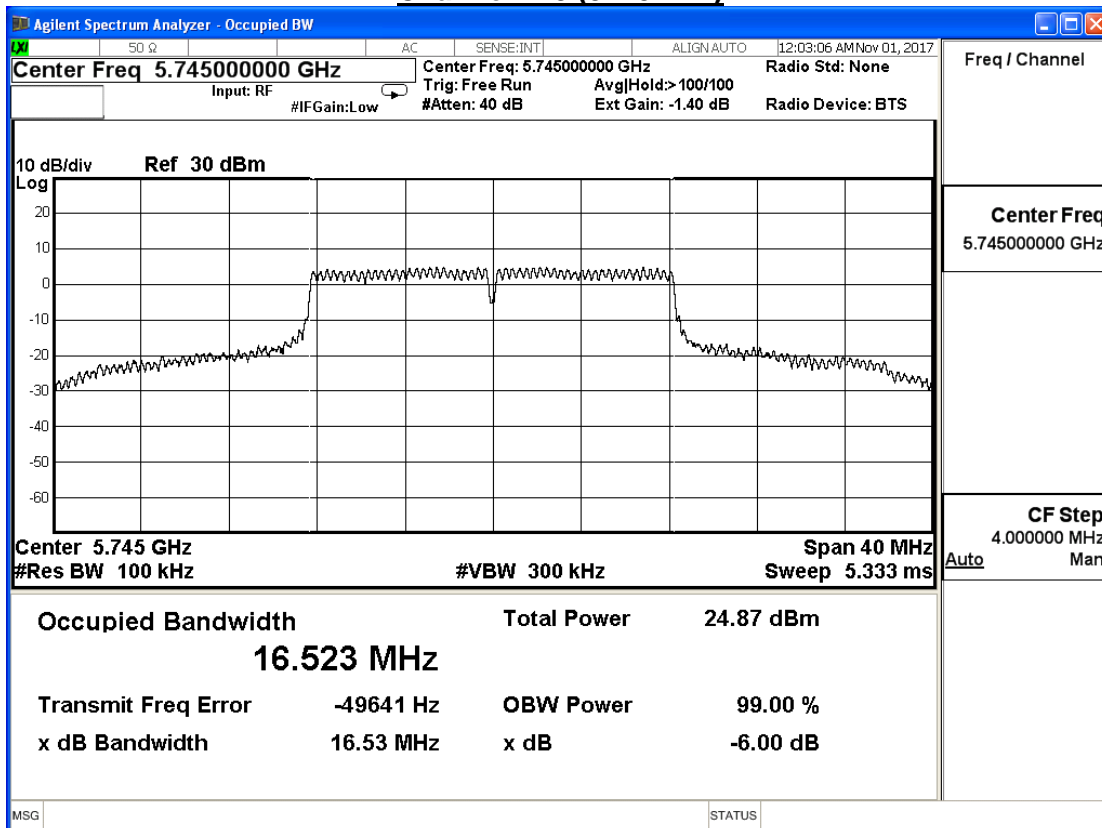
Channel 165 (5825MHz)



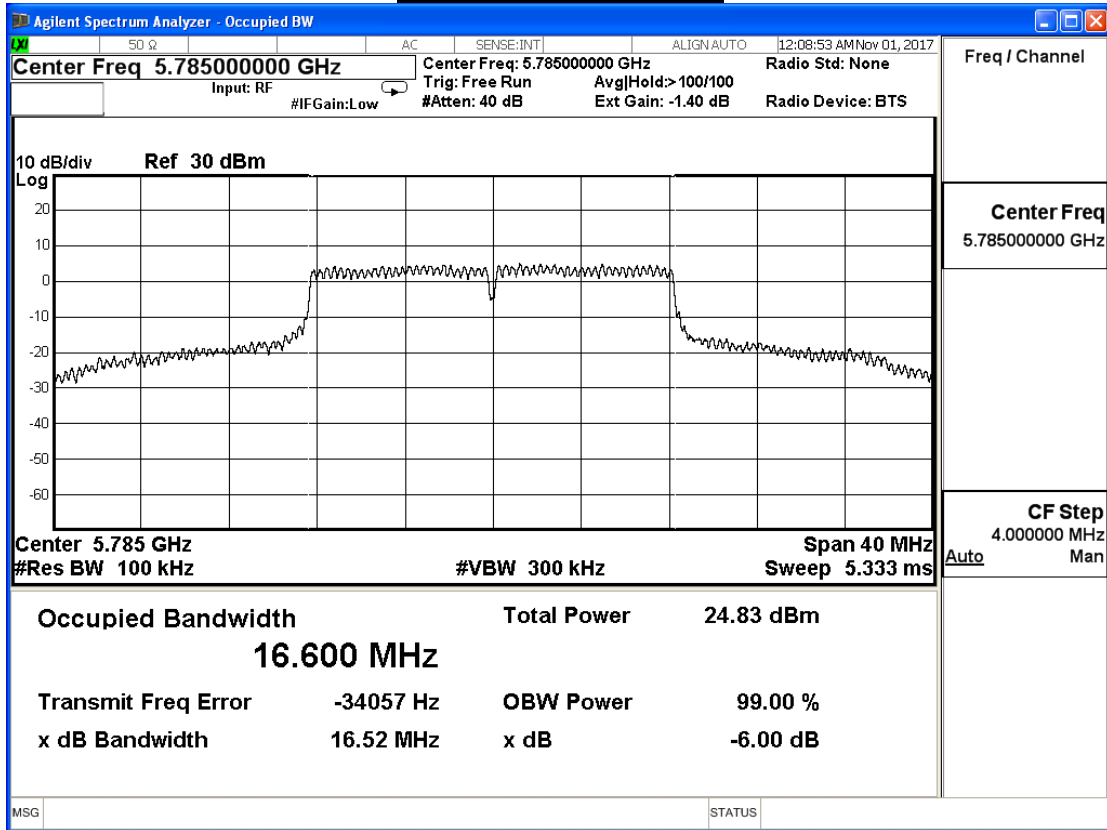
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/11/01	Test Site	SR10-H

802.11a (ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	16.530	≥ 0.5
157	5785	16.520	≥ 0.5
165	5825	16.510	≥ 0.5

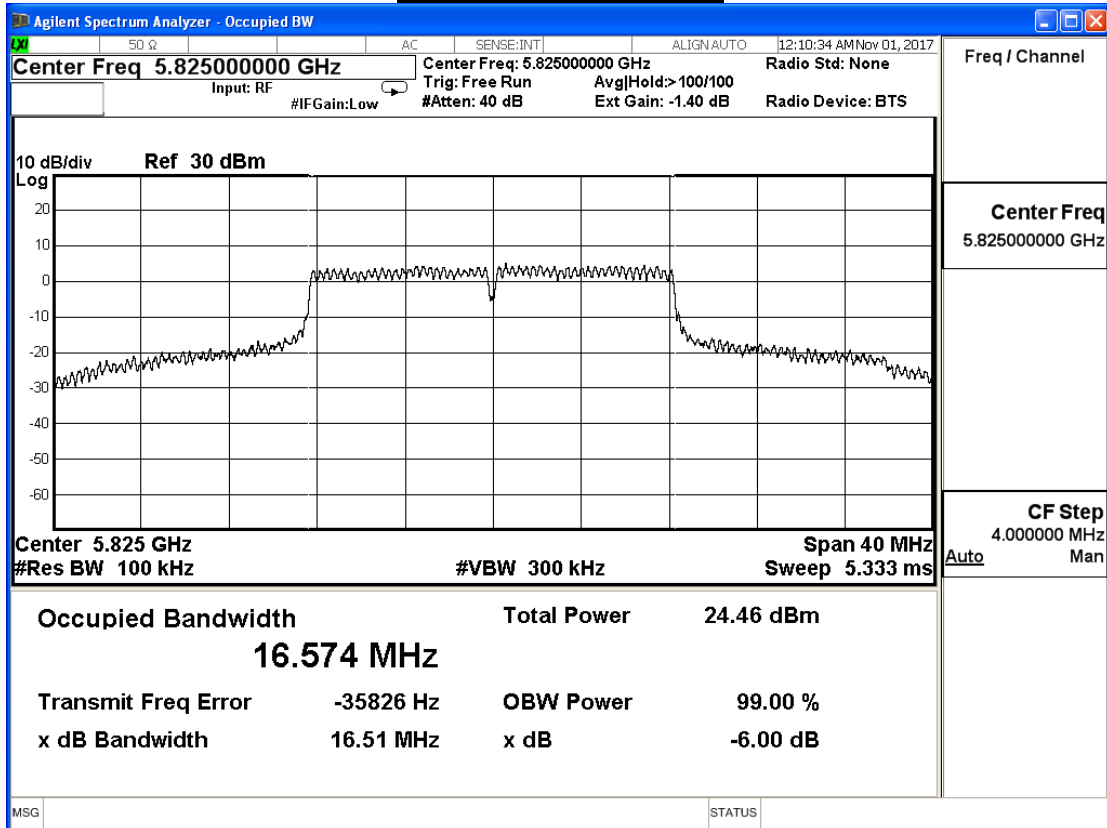
Channel 149 (5745MHz)



Channel 157 (5785MHz)



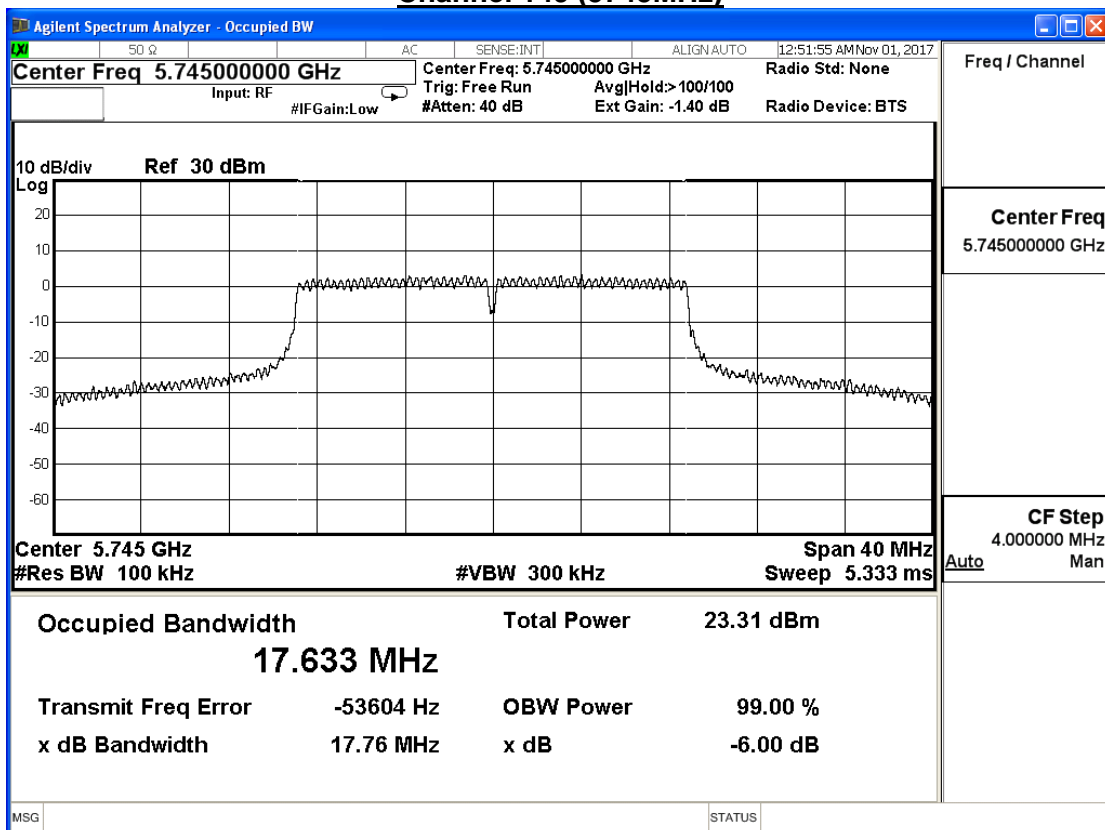
Channel 165 (5825MHz)



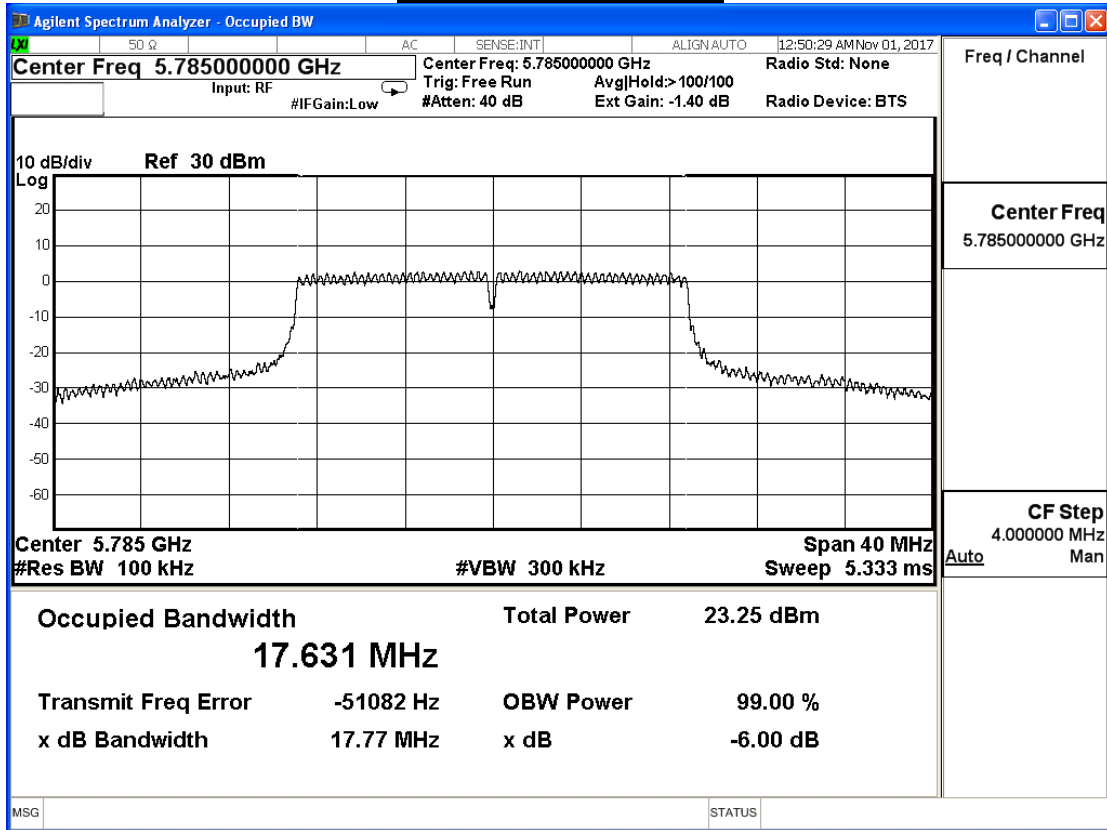
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	17.760	≥ 0.5
157	5785	17.770	≥ 0.5
165	5825	17.760	≥ 0.5

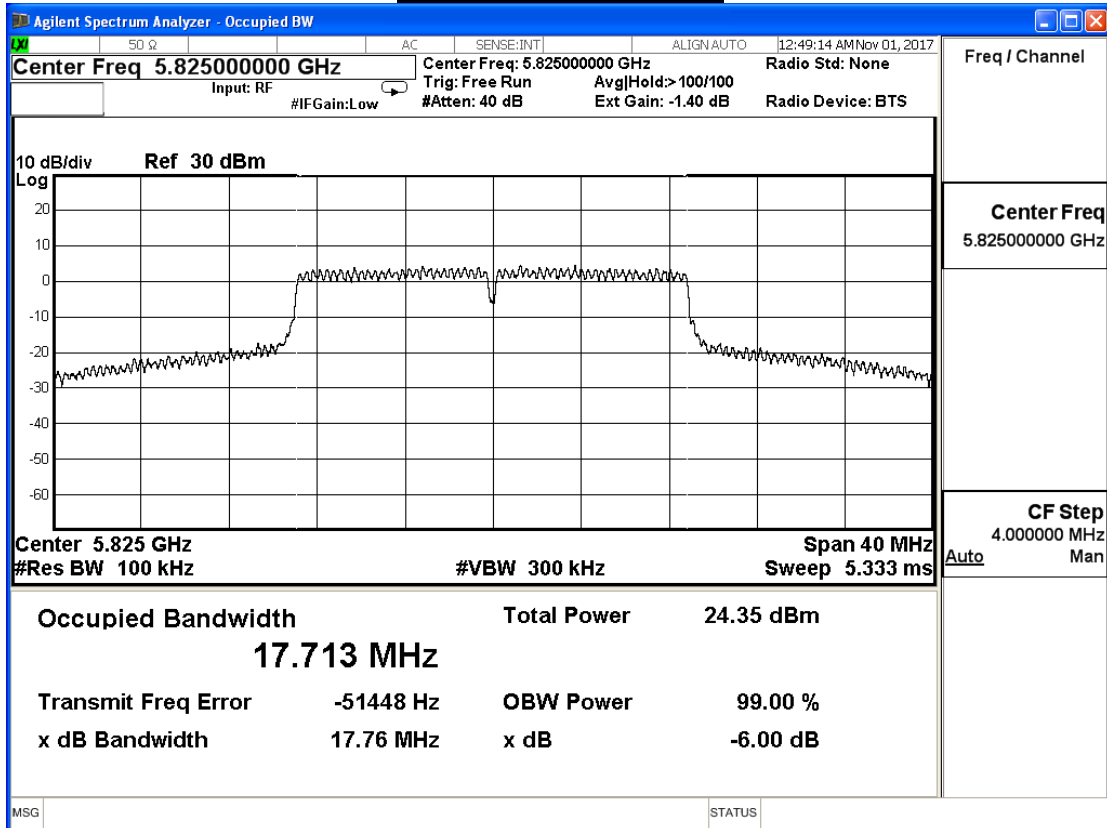
Channel 149 (5745MHz)



Channel 157 (5785MHz)



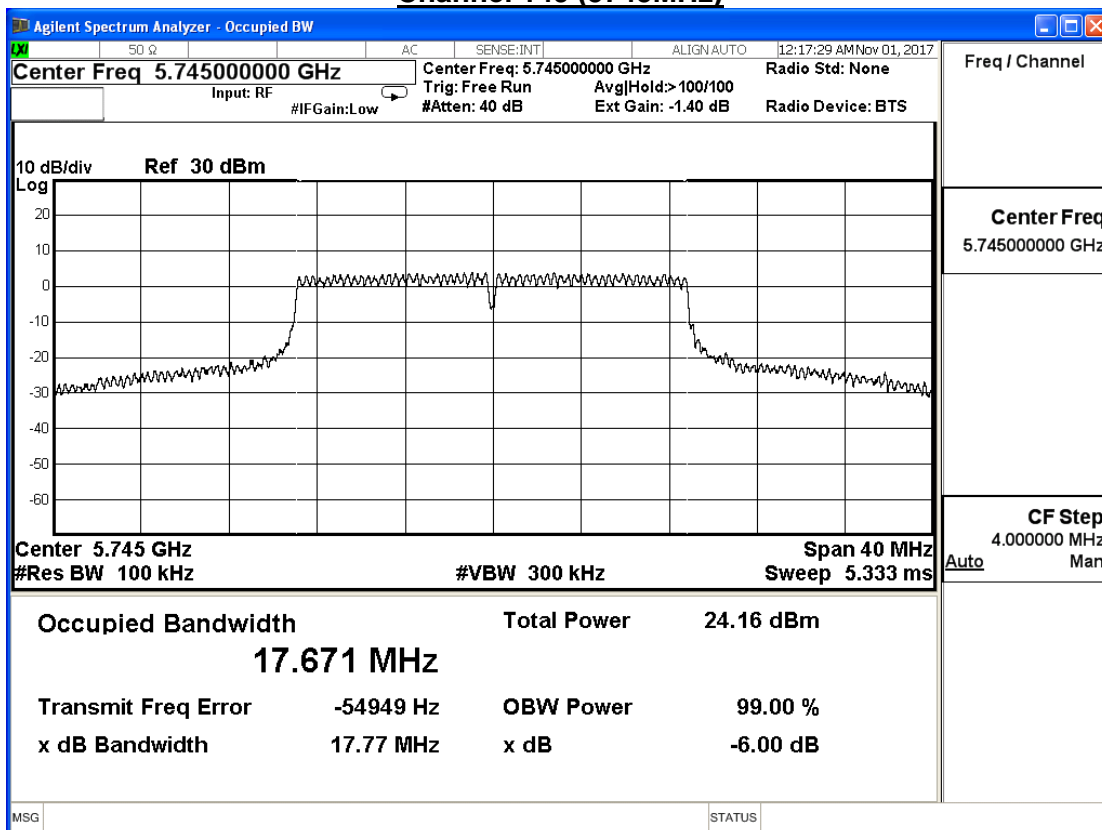
Channel 165 (5825MHz)



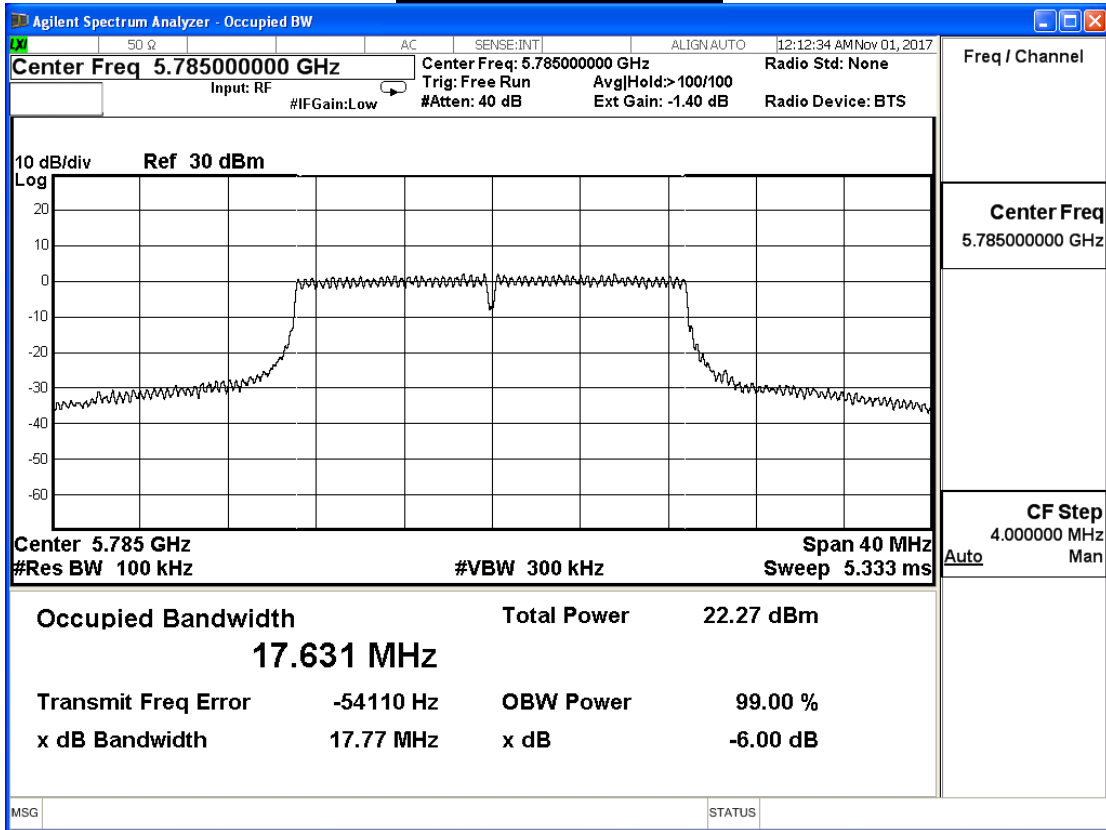
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
149	5745	17.770	≥ 0.5
157	5785	17.770	≥ 0.5
165	5825	17.750	≥ 0.5

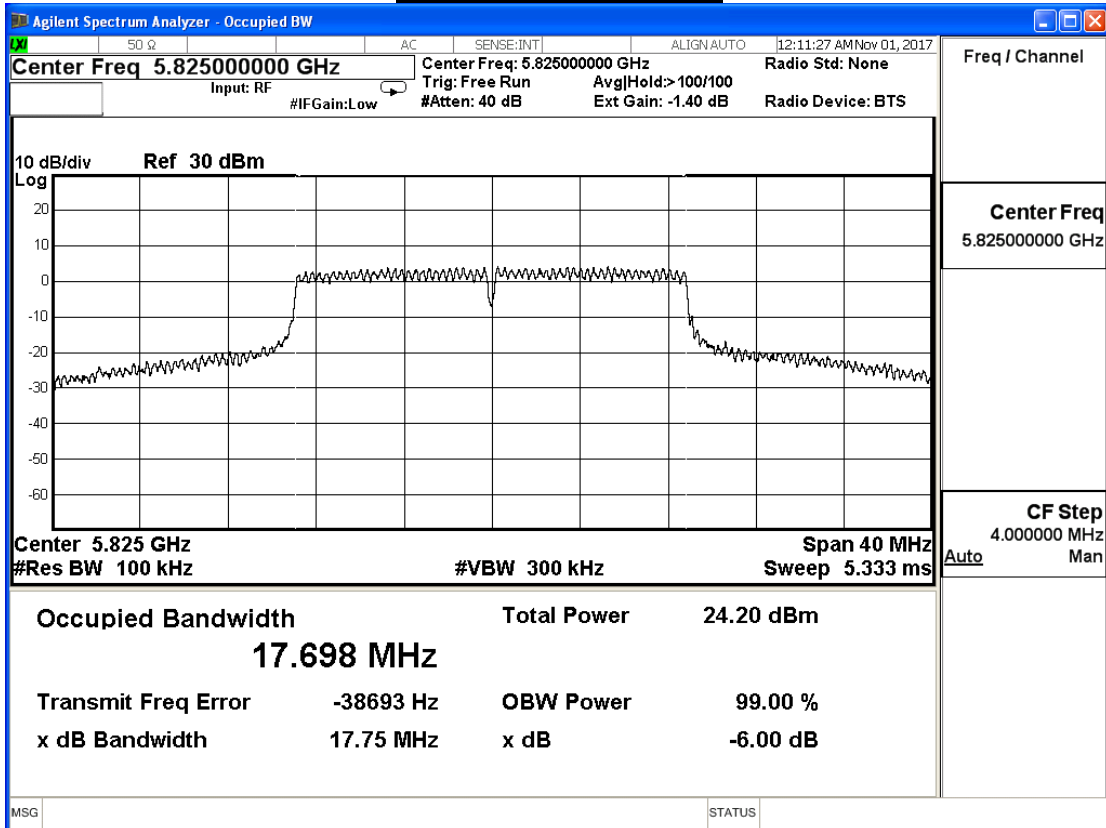
Channel 149 (5745MHz)



Channel 157 (5785MHz)



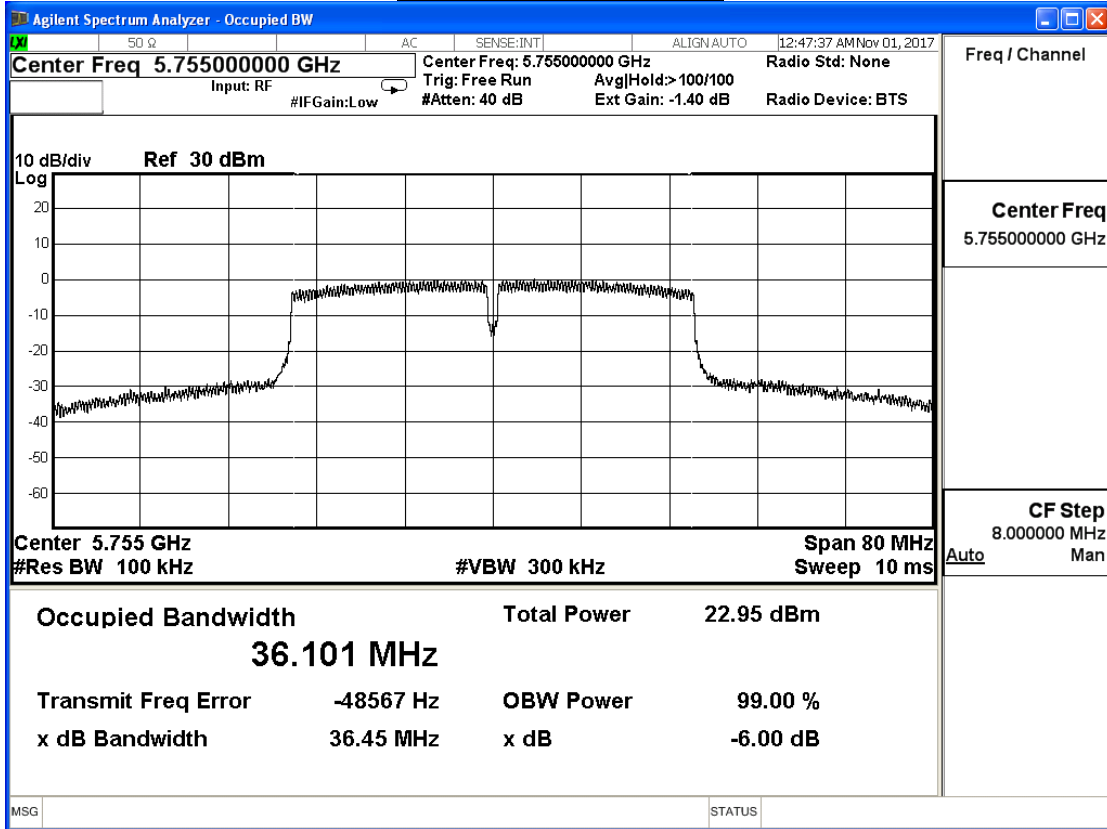
Channel 165 (5825MHz)



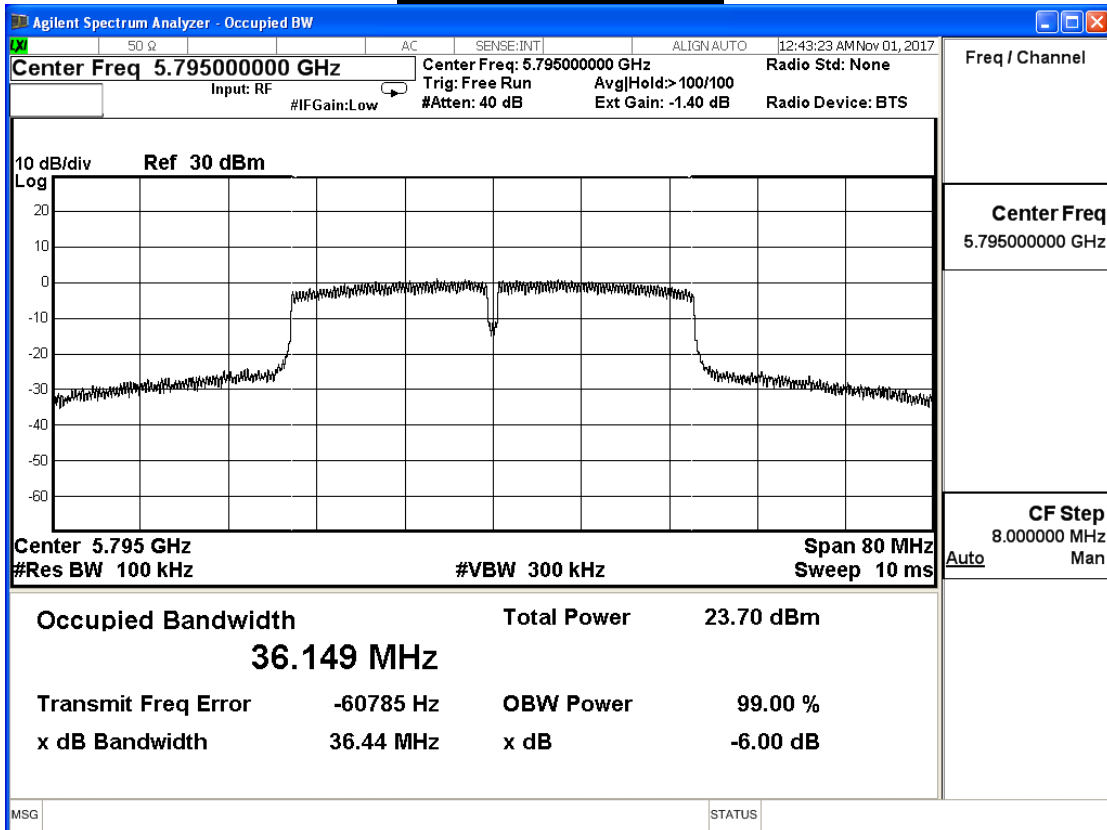
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
151	5755	36.450	≥ 0.5
159	5795	36.440	≥ 0.5

Channel 151 (5755MHz)



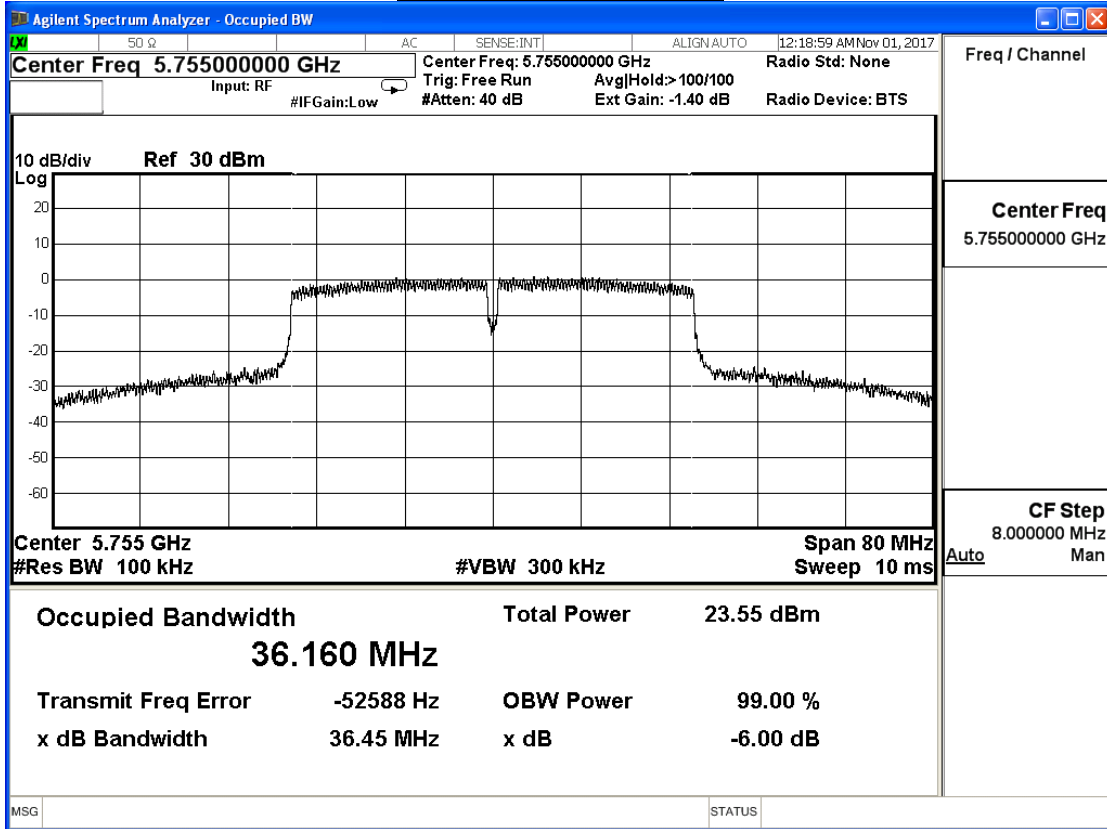
Channel 159 (5795MHz)



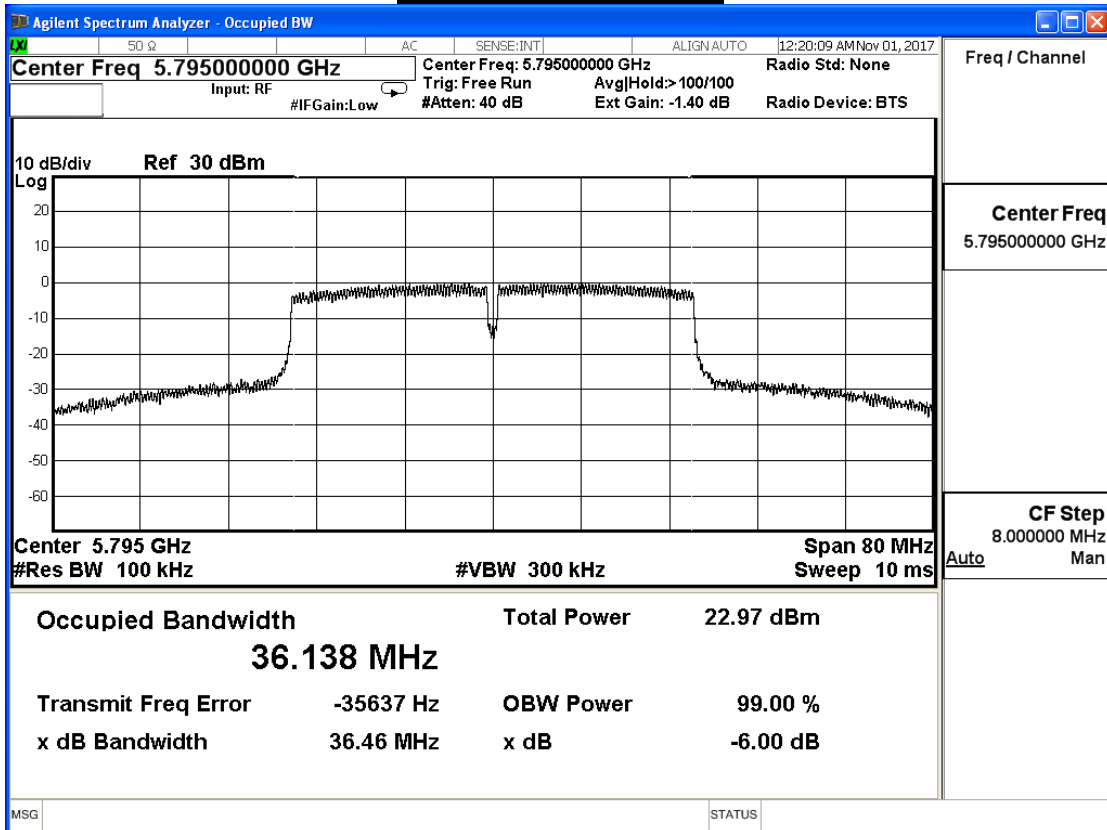
Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
151	5755	36.450	≥ 0.5
159	5795	36.460	≥ 0.5

Channel 151 (5755MHz)



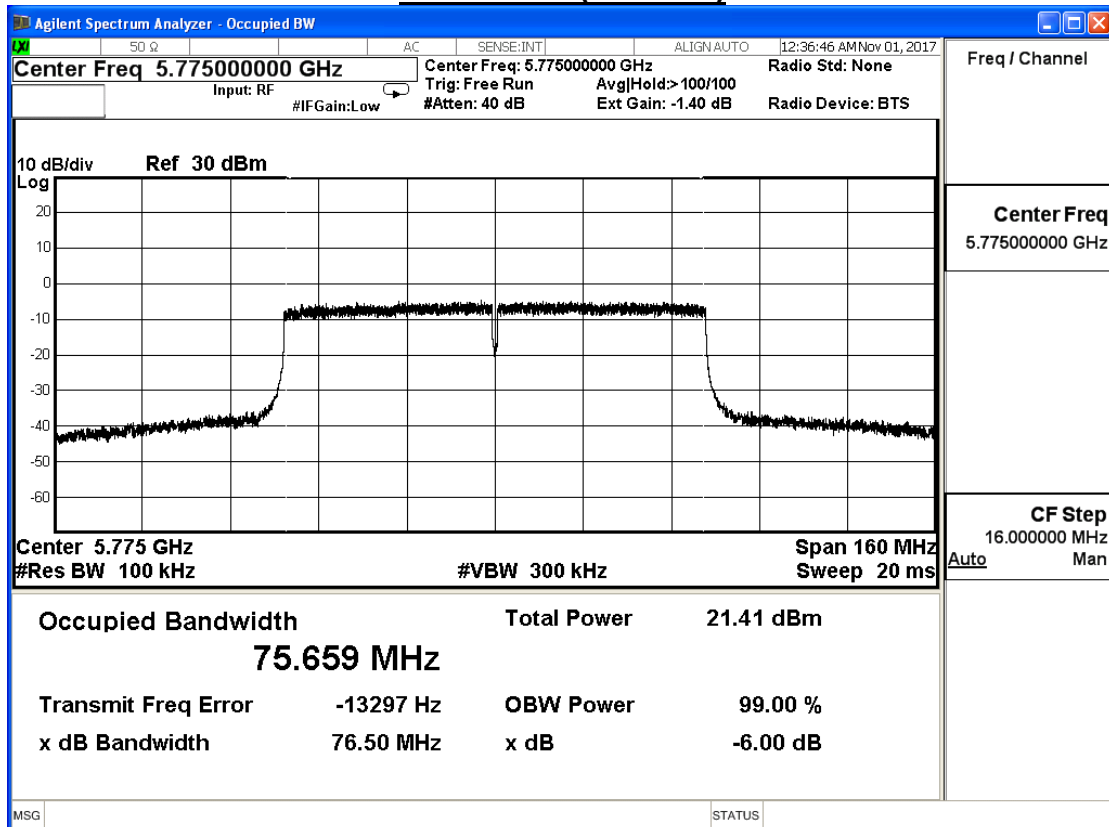
Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
155	5775	76.500	≥ 0.5

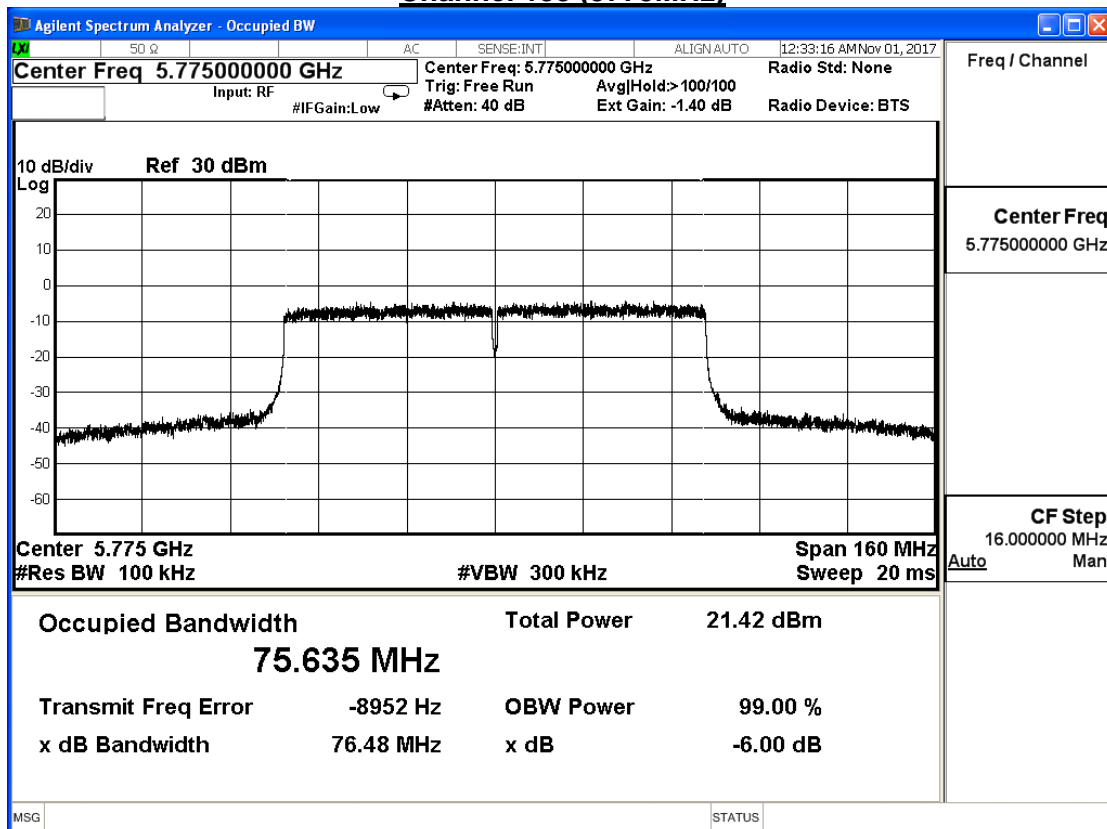
Channel 155 (5775MHz)



Product	Verizon Mesh Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: Transmit MIMO Mode		
Date of Test	2017/11/01	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Vaule (MHz)	Limit (MHz)
155	5775	76.480	≥ 0.5

Channel 155 (5775MHz)



4. Peak Transmit Output

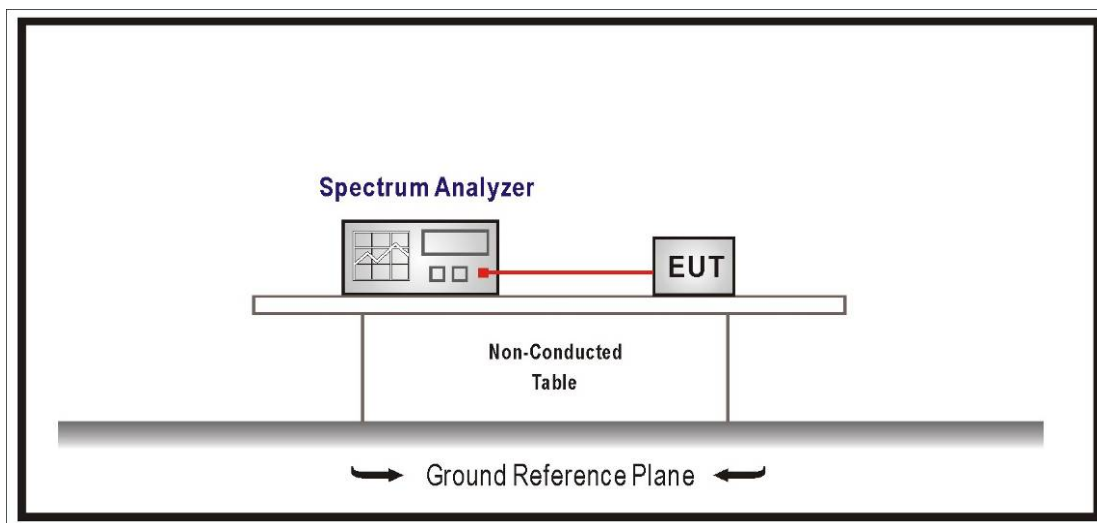
4.1. Test Equipment

The following test equipment are used during the radiated emission tests:

Peak Transmit Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

4.2. Test Setup



4.3. Limits

1. For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. 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 client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.
3. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. 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.
4. For the band 5.725-5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. 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.

4.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 V01R02 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW=3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

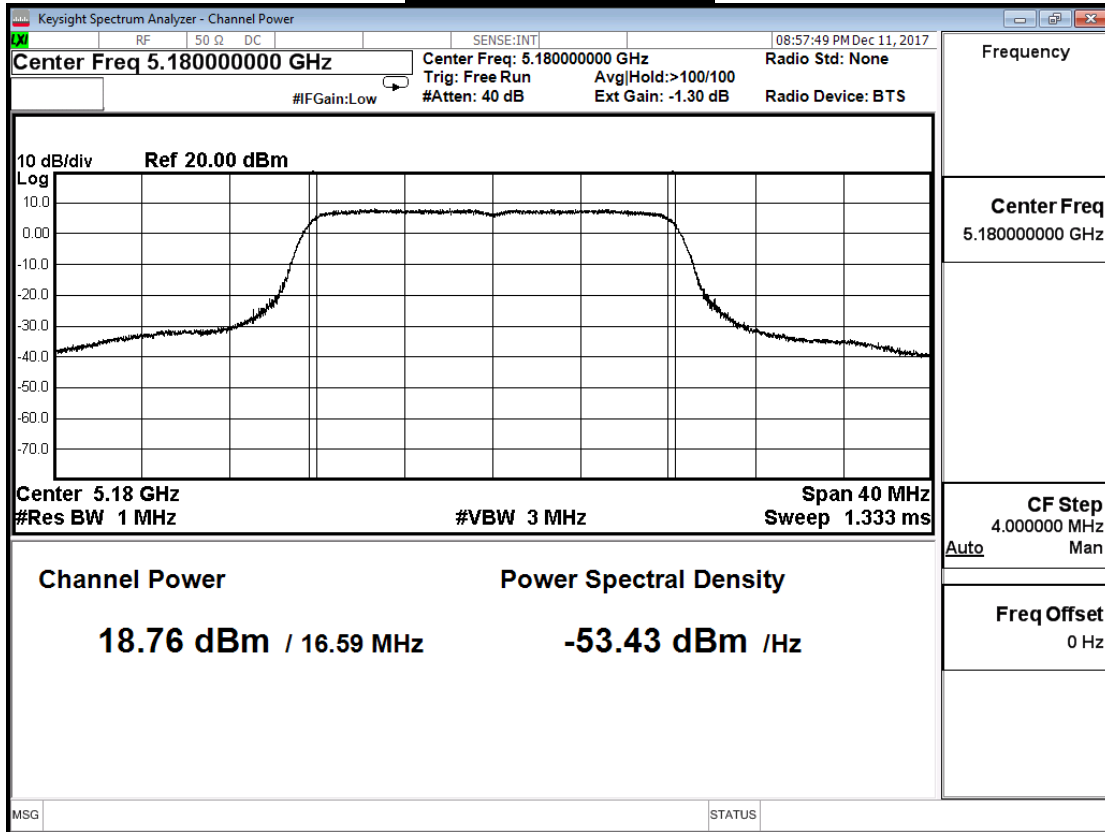
802.11a (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	18.760	≤ 30
44	5220	22.770	≤ 30
48	5240	22.920	≤ 30

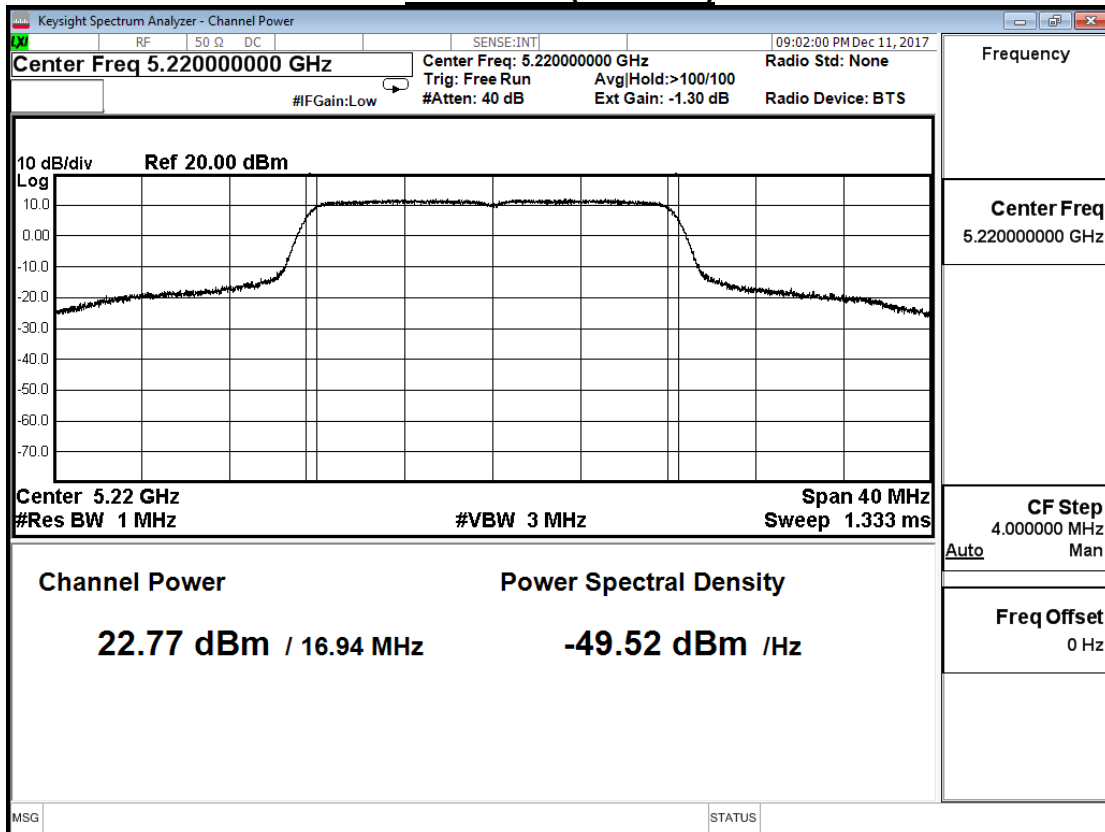
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	18.760	--	--	--	--	--	--	≤30dBm
44	5220	22.770	22.620	22.480	22.340	22.190	22.060	21.920	
48	5240	22.920	--	--	--	--	--	--	

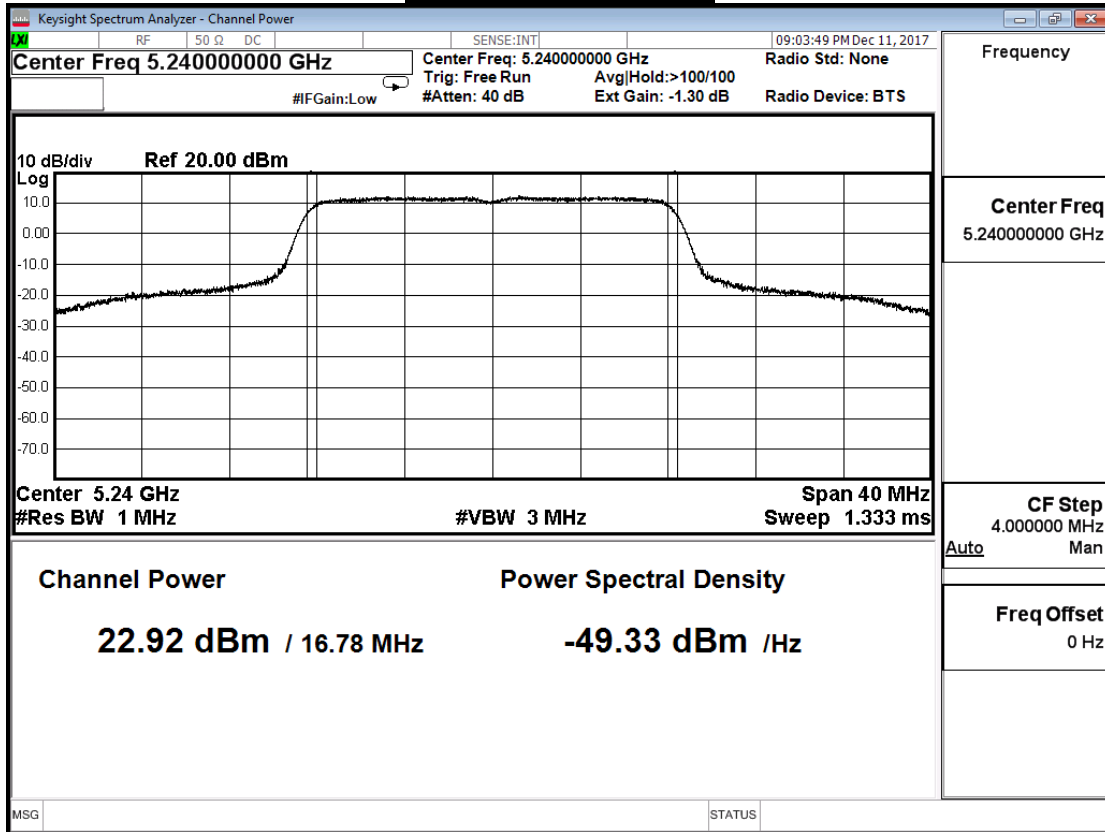
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

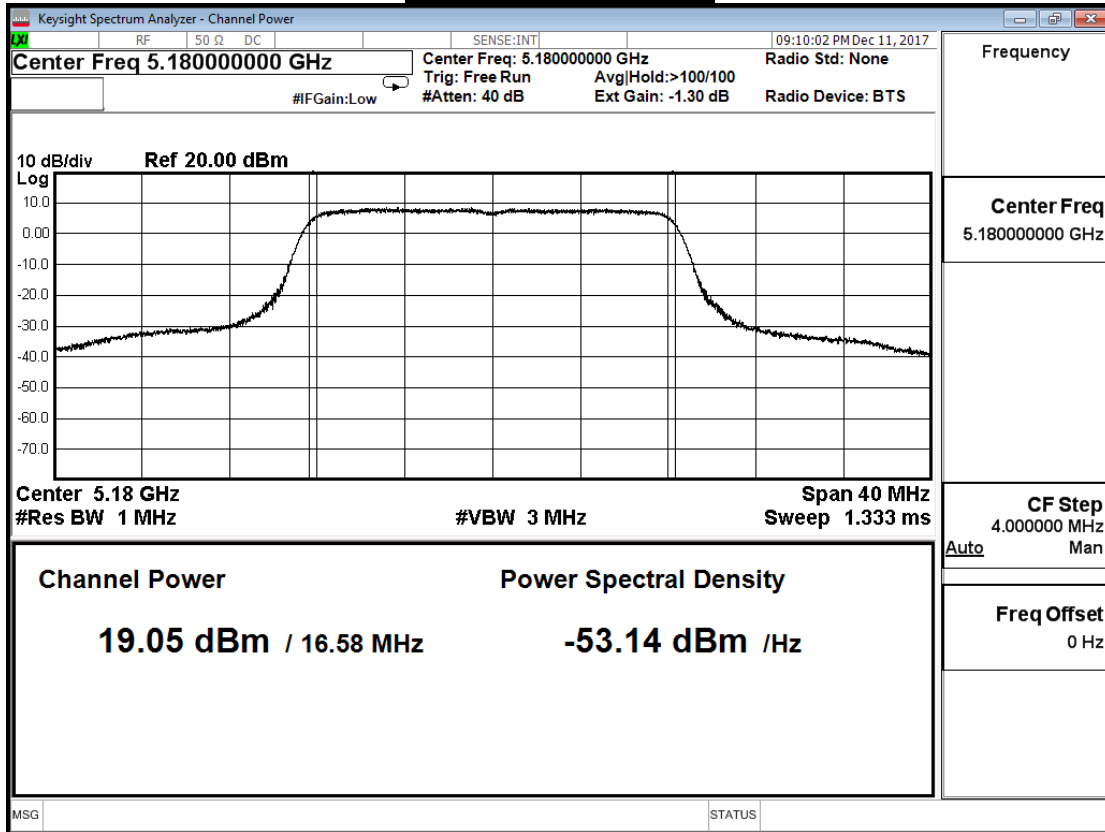
802.11a (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	19.050	≤ 30
44	5220	22.790	≤ 30
48	5240	22.570	≤ 30

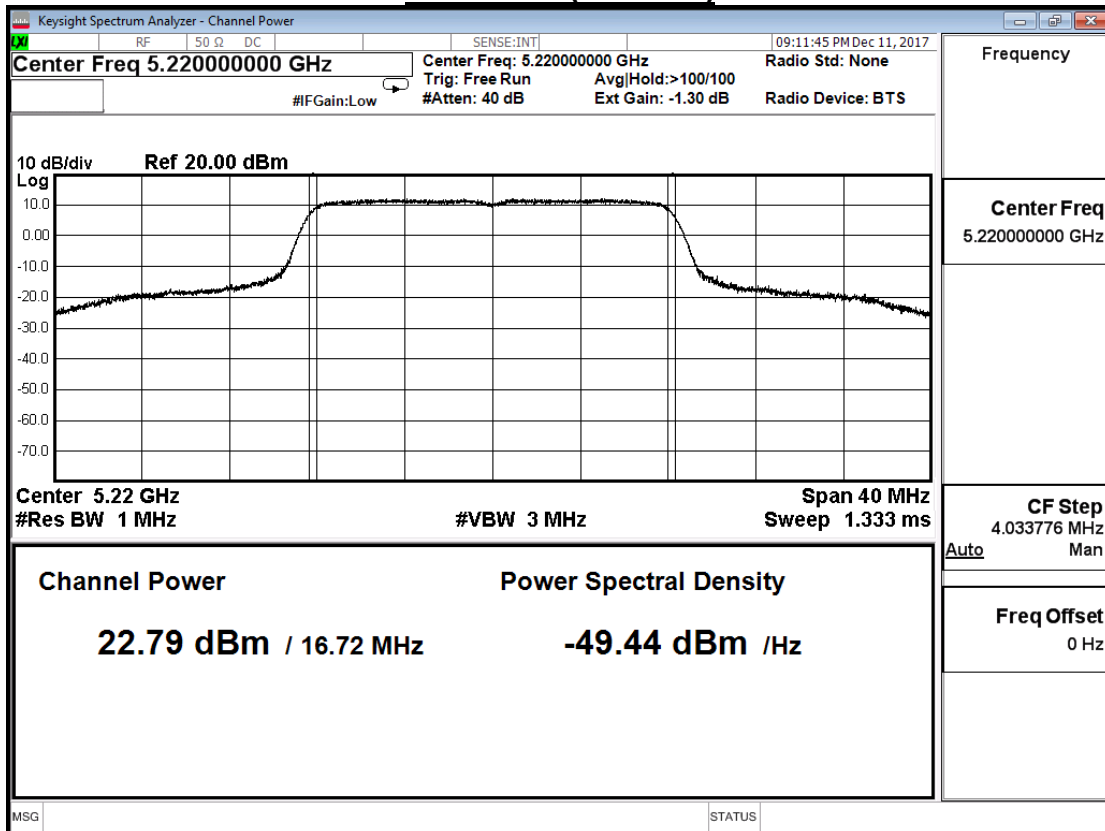
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.050	--	--	--	--	--	--	≤30dBm
44	5220	22.790	22.640	22.510	22.380	22.230	22.100	21.960	
48	5240	22.570	--	--	--	--	--	--	

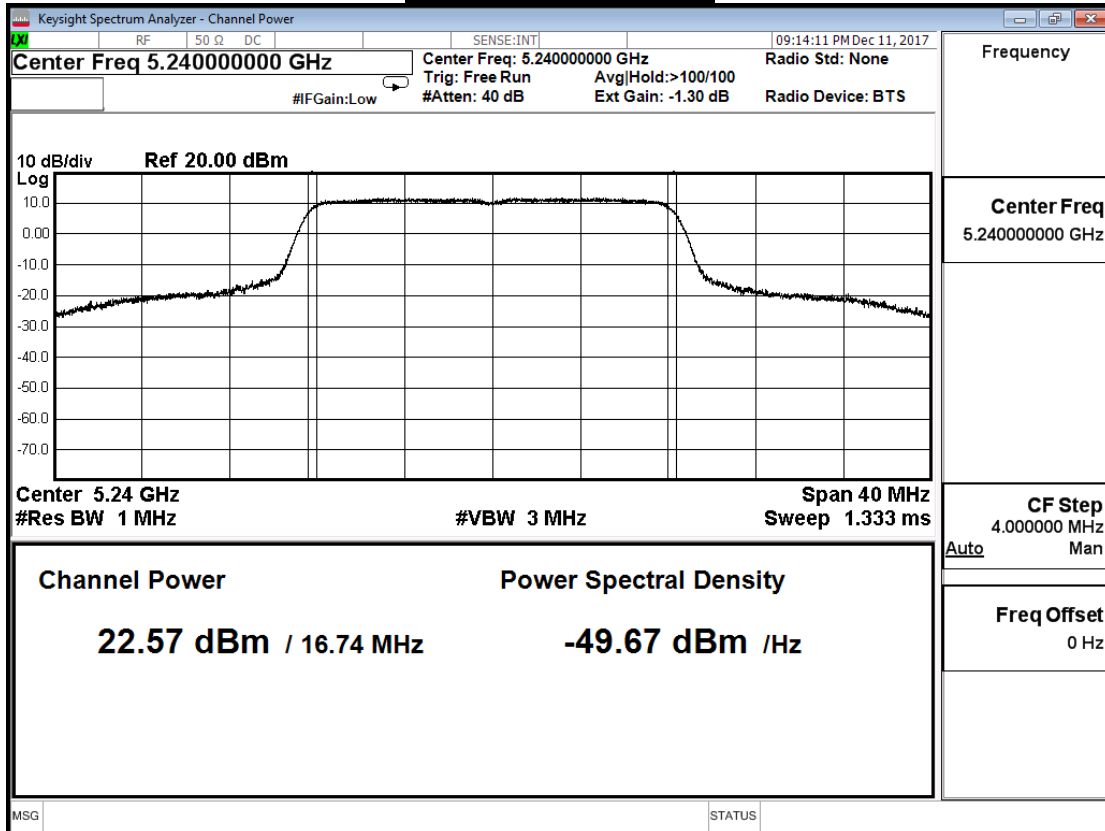
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

802.11a(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	21.918	≤ 30
44	5220	25.790	≤ 30
48	5240	25.759	≤ 30

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	19.360	≤ 29.39
44	5220	22.920	≤ 29.39
48	5240	22.710	≤ 29.39

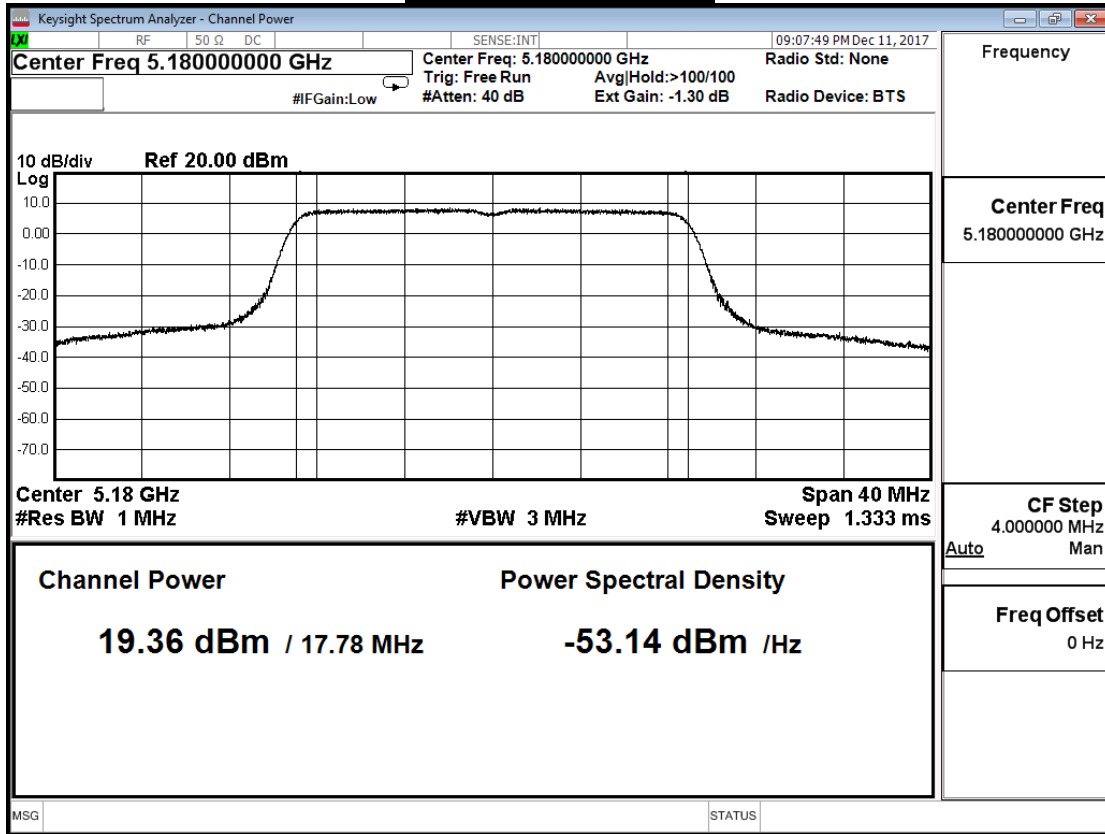
The worst emission of data rate is MCS 8

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
36	5180	19.360	--	--	--	--	--	--	--	≤29.39dBm
44	5220	22.920	22.790	22.650	22.510	22.380	22.230	22.080	21.940	
48	5240	22.710	--	--	--	--	--	--	--	

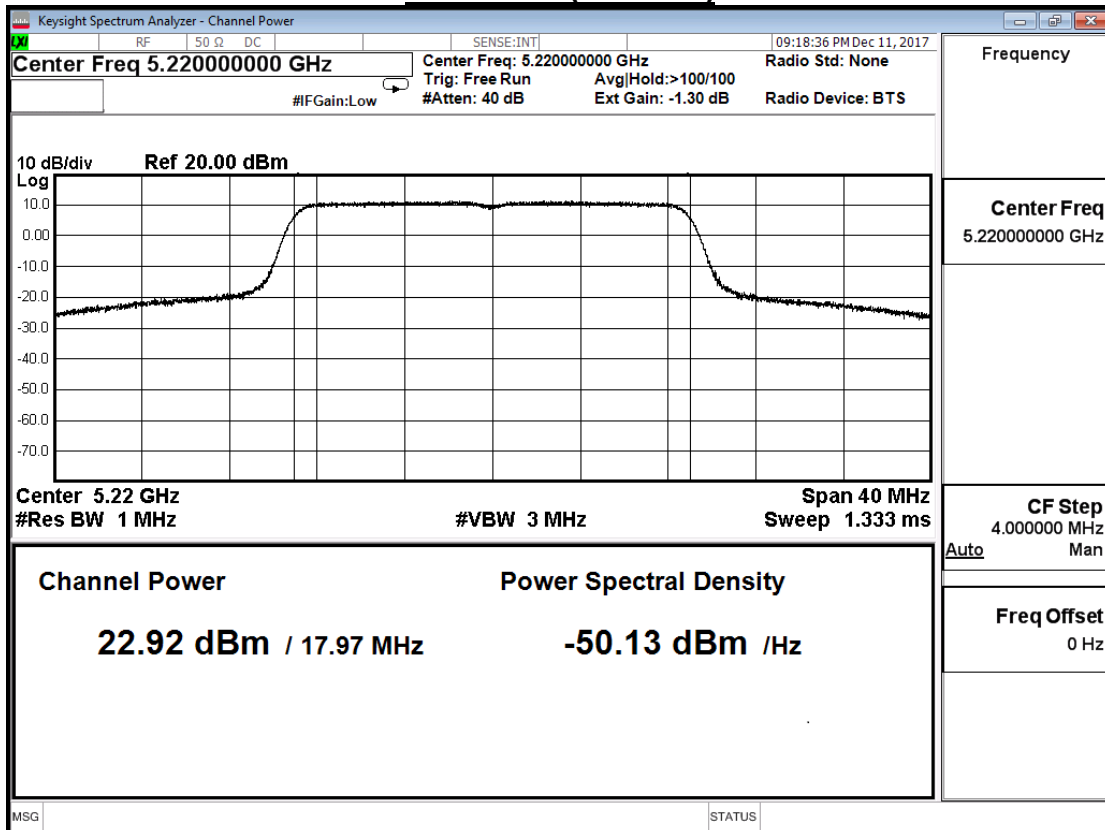
Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

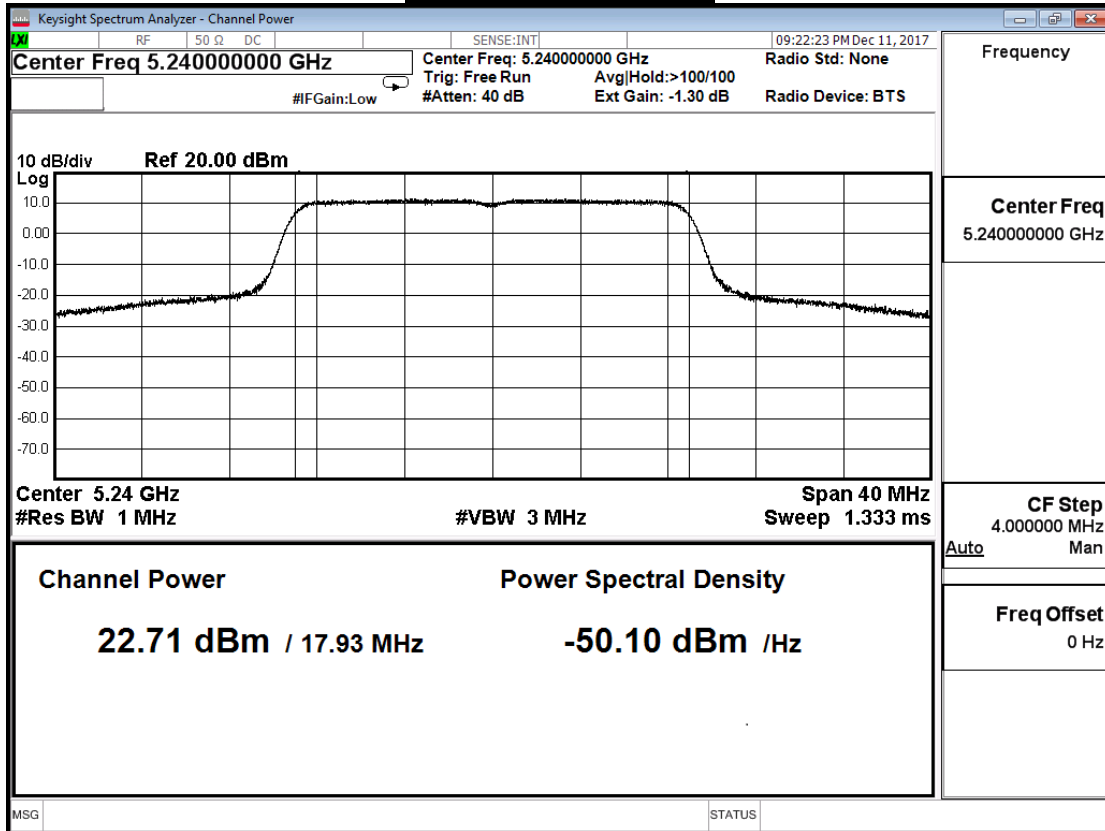
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	19.580	≤ 29.39
44	5220	22.500	≤ 29.39
48	5240	22.420	≤ 29.39

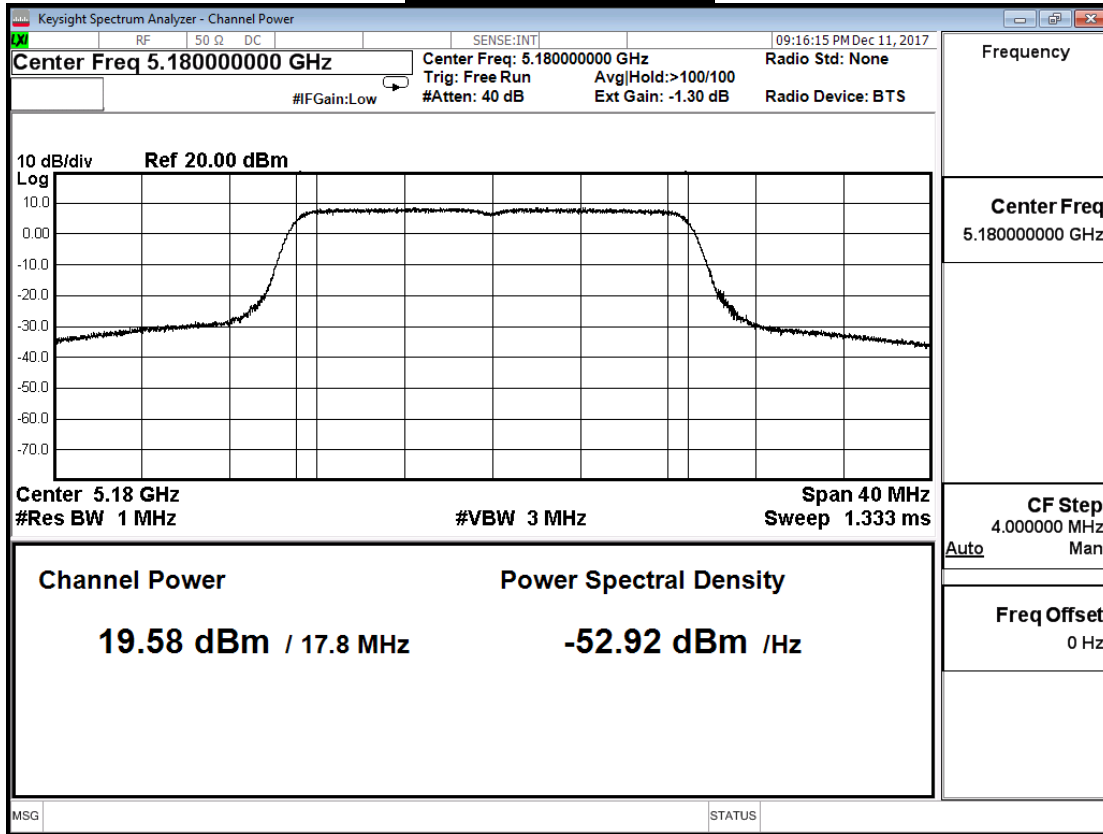
The worst emission of data rate is MCS 8

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
36	5180	19.580	--	--	--	--	--	--	--	≤29.39dBm
44	5220	22.500	22.360	22.220	22.080	21.930	21.790	21.650	21.520	
48	5240	22.420	--	--	--	--	--	--	--	

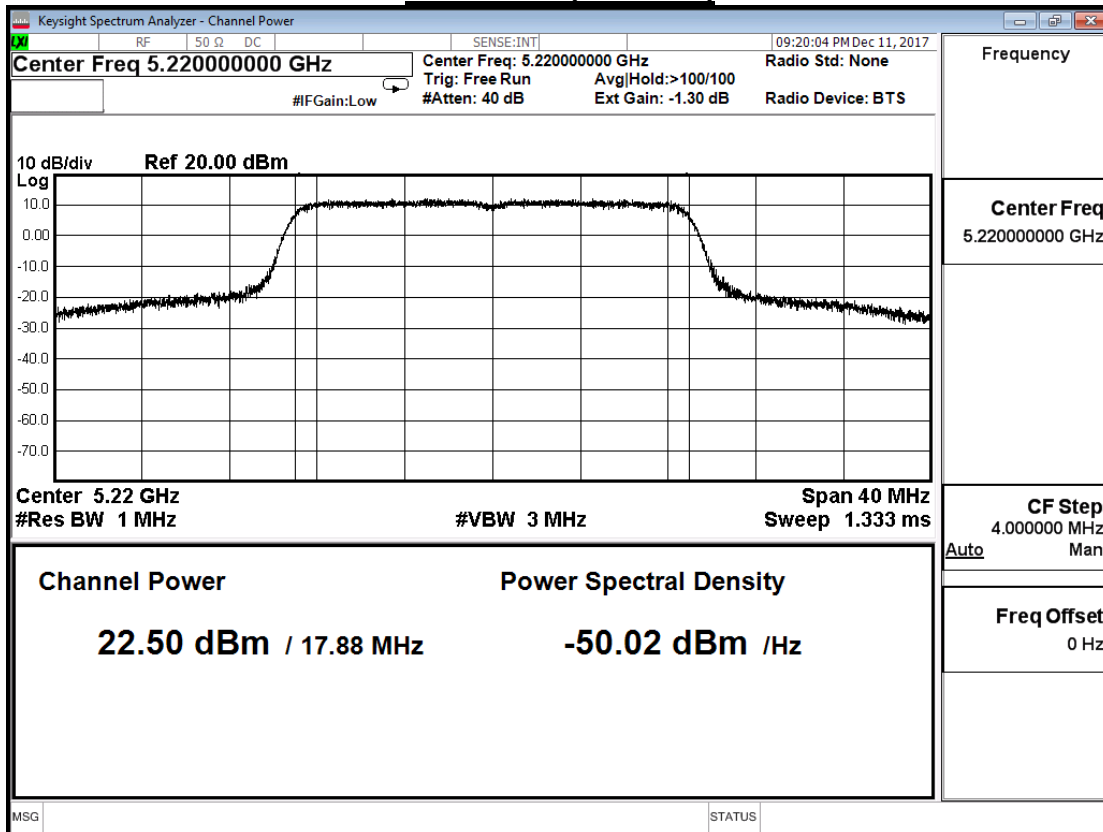
Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

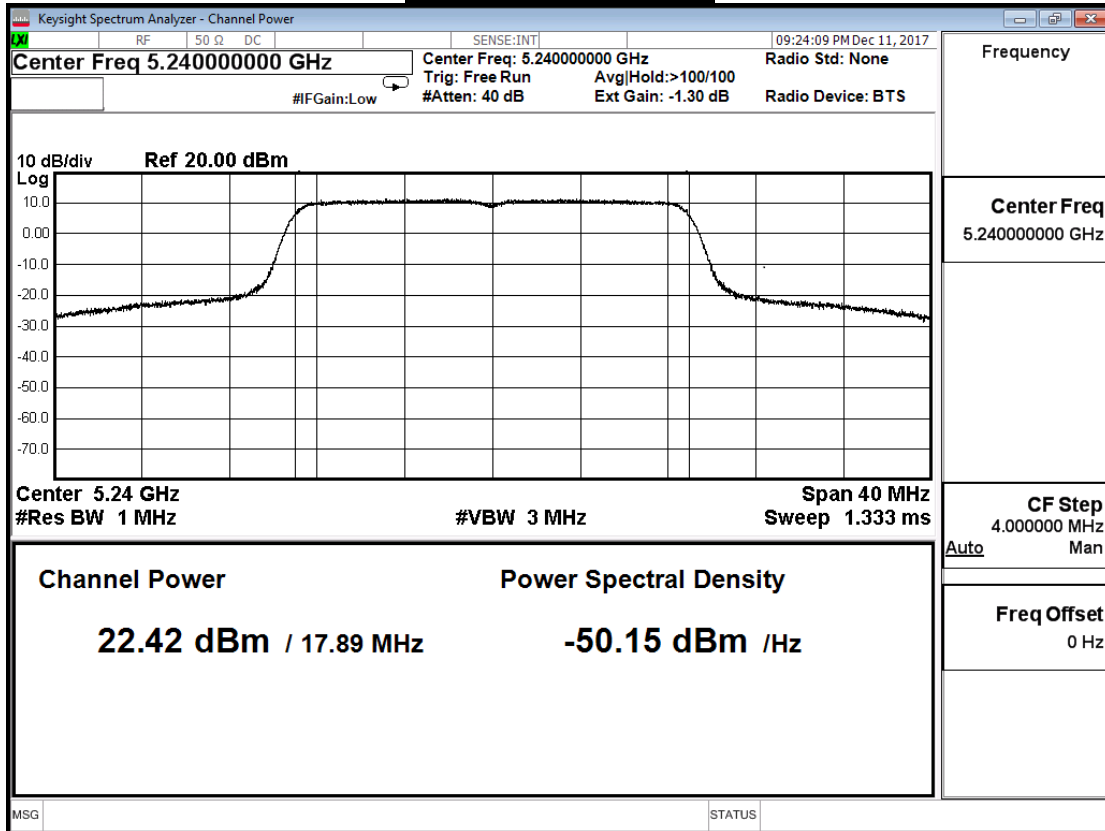
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	22.482	≤ 29.39
44	5220	25.725	≤ 29.39
48	5240	25.578	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	15.610	≤ 29.39
46	5230	22.280	≤ 29.39

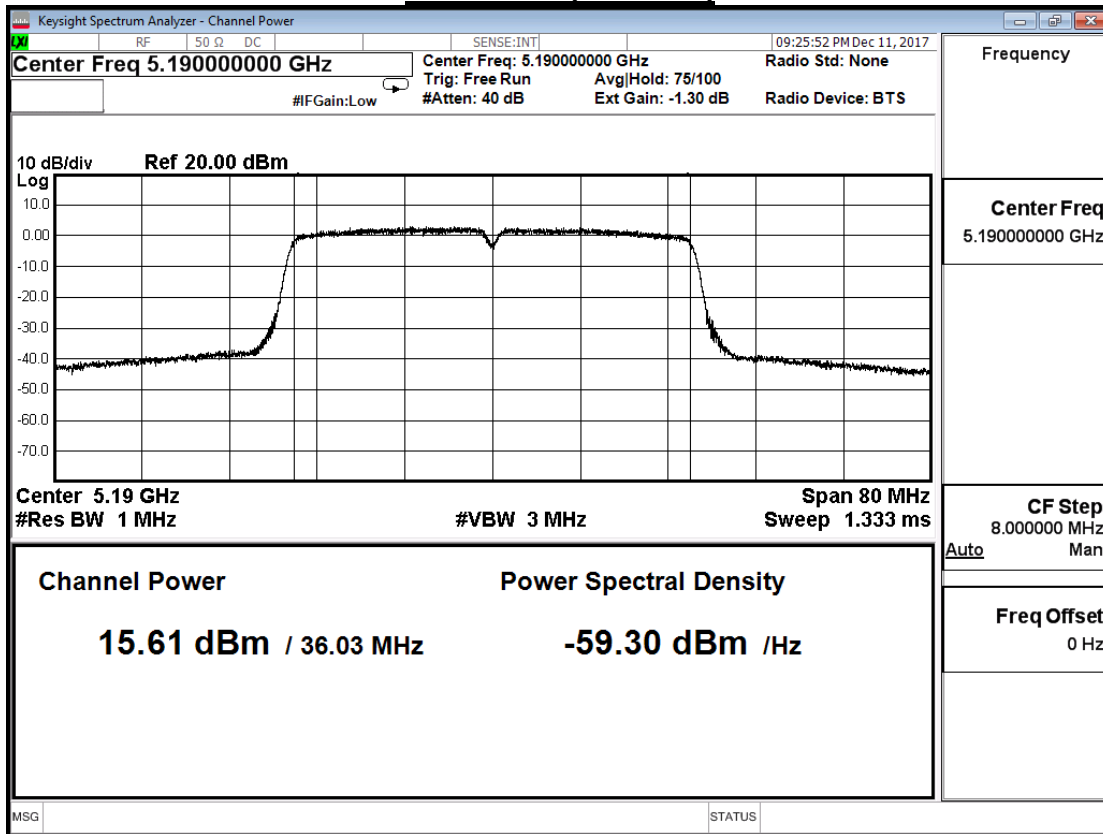
The worst emission of data rate is MCS 8

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
38	5190	15.610	--	--	--	--	--	--	--	≤29.39dBm
46	5230	22.280	22.140	22.010	21.880	21.740	21.610	21.460	21.310	

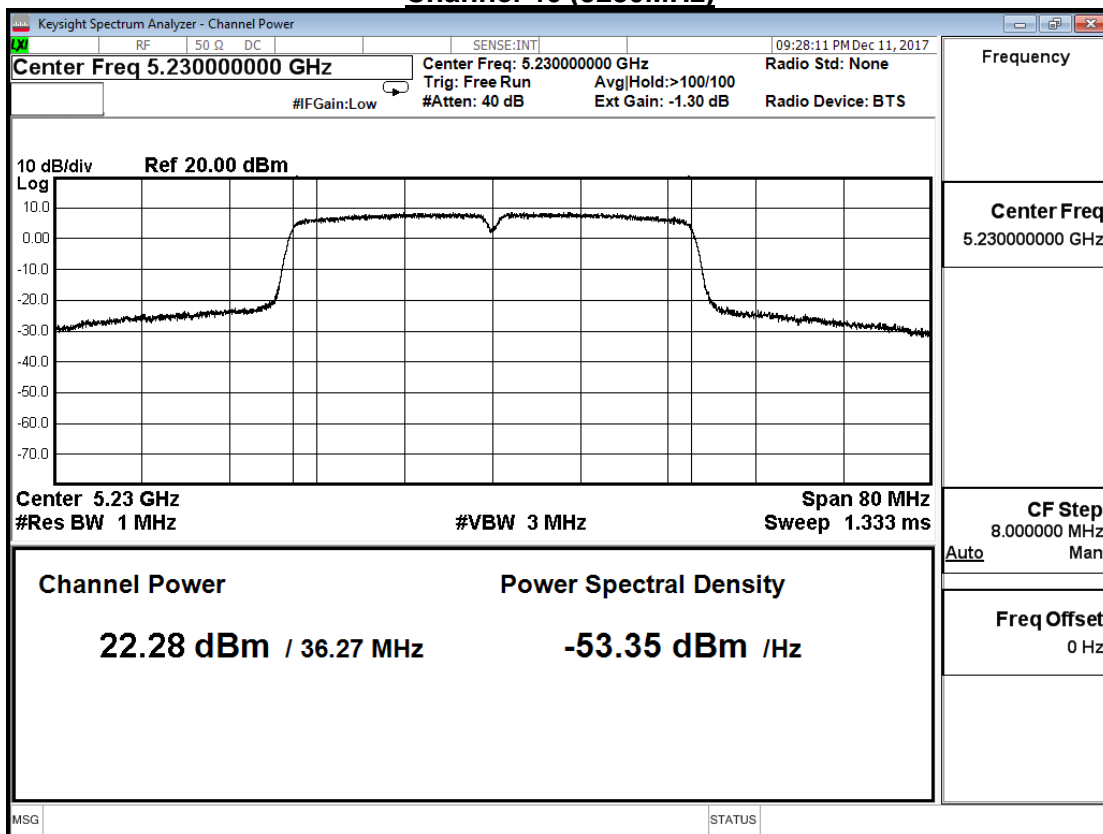
Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 1)

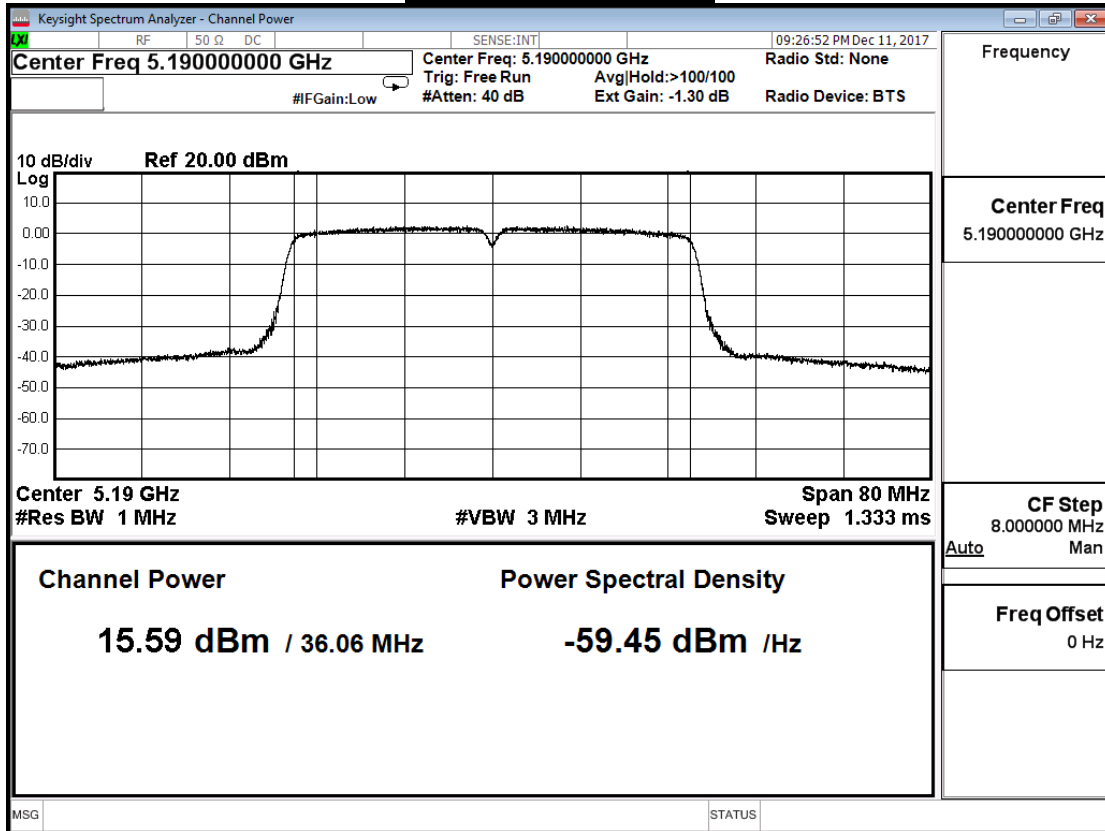
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	15.590	≤ 29.39
46	5230	22.200	≤ 29.39

The worst emission of data rate is MCS 8

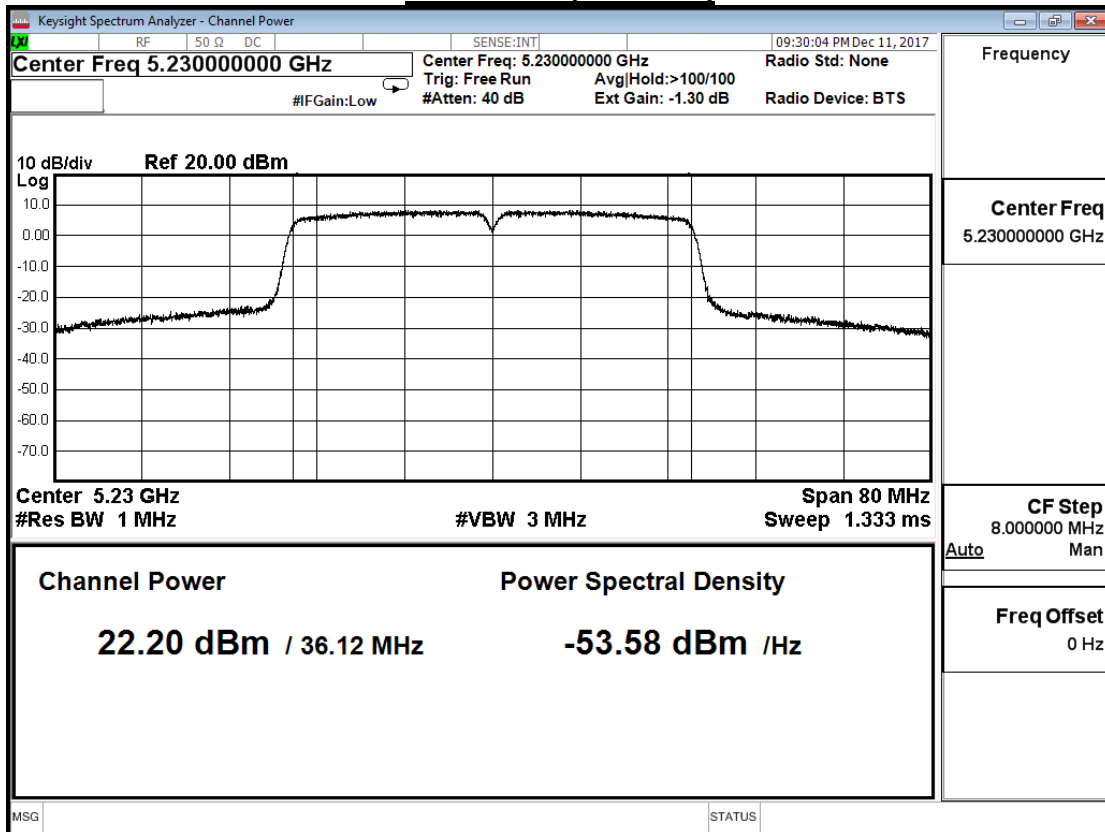
Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
38	5190	15.590	--	--	--	--	--	--	--	≤29.39dBm
46	5230	22.200	22.070	21.940	21.790	21.640	21.500	21.360	21.220	

Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	18.610	≤ 29.39
46	5230	25.250	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/11/10	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT 0)

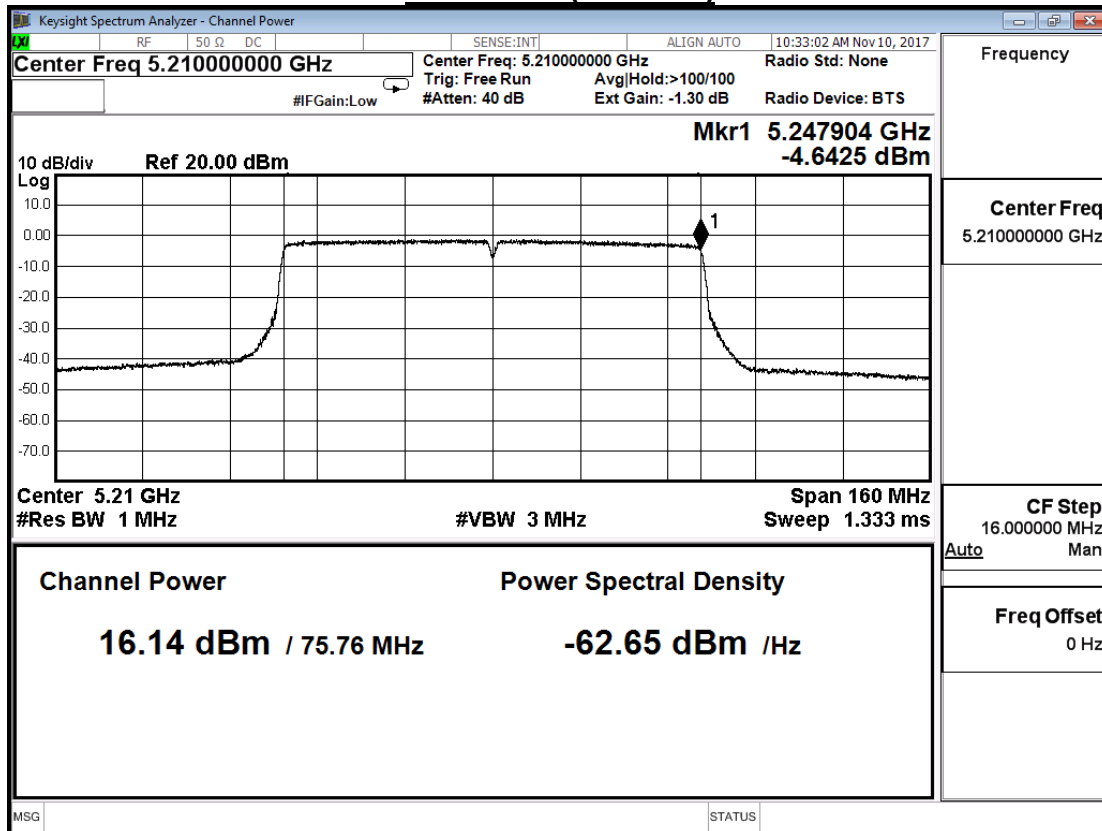
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	16.140	≤ 29.39

The worst emission of data rate is MCS0

Peak Power Output (dBm)												
Channel No	Frequency (MHz)	MCS index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	16.14	16.00	15.86	15.73	15.59	15.44	15.30	16.14	16.00	15.86	≤29.39dBm

Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

Channel 42 (5210MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/11/10	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT 1)

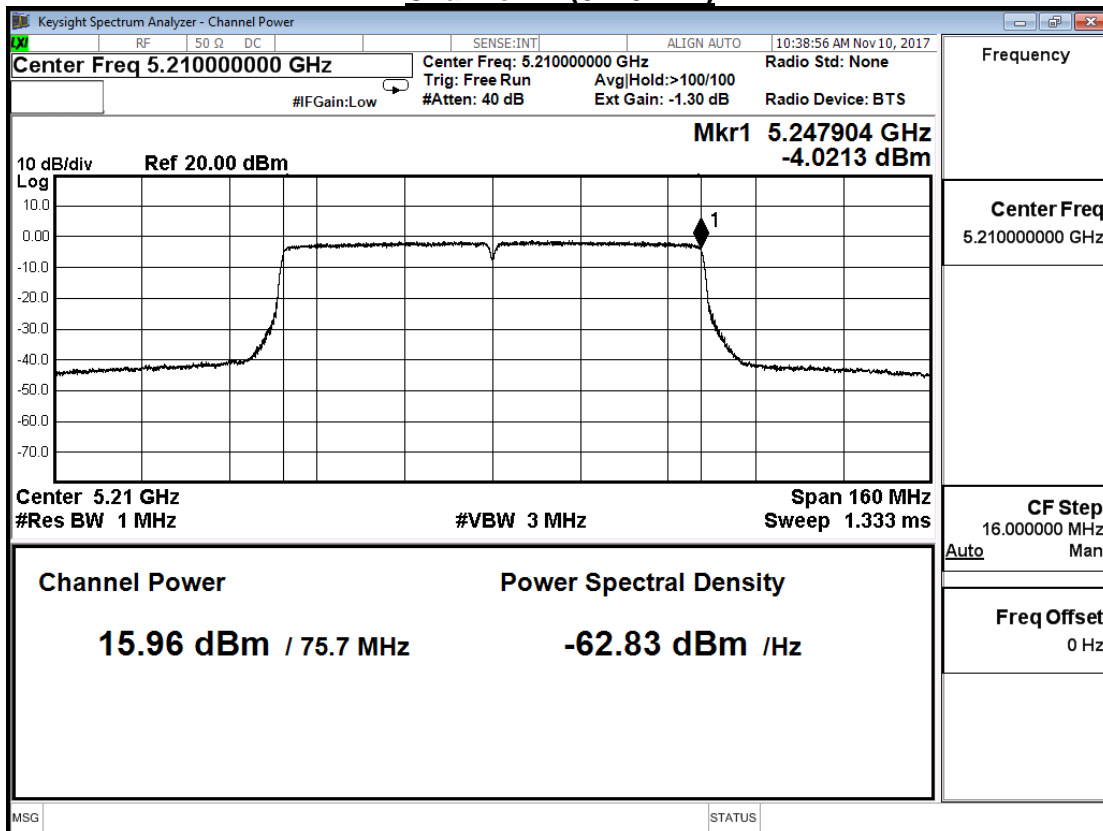
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	15.960	≤ 29.39

The worst emission of data rate is MCS0

Peak Power Output (dBm)												
Channel No	Frequency (MHz)	MCS index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	15.96	15.83	15.69	15.55	15.41	15.28	15.13	15.00	15.96	15.83	≤29.39dBm

Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

Channel 42 (5210MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/11/10	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	19.061	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

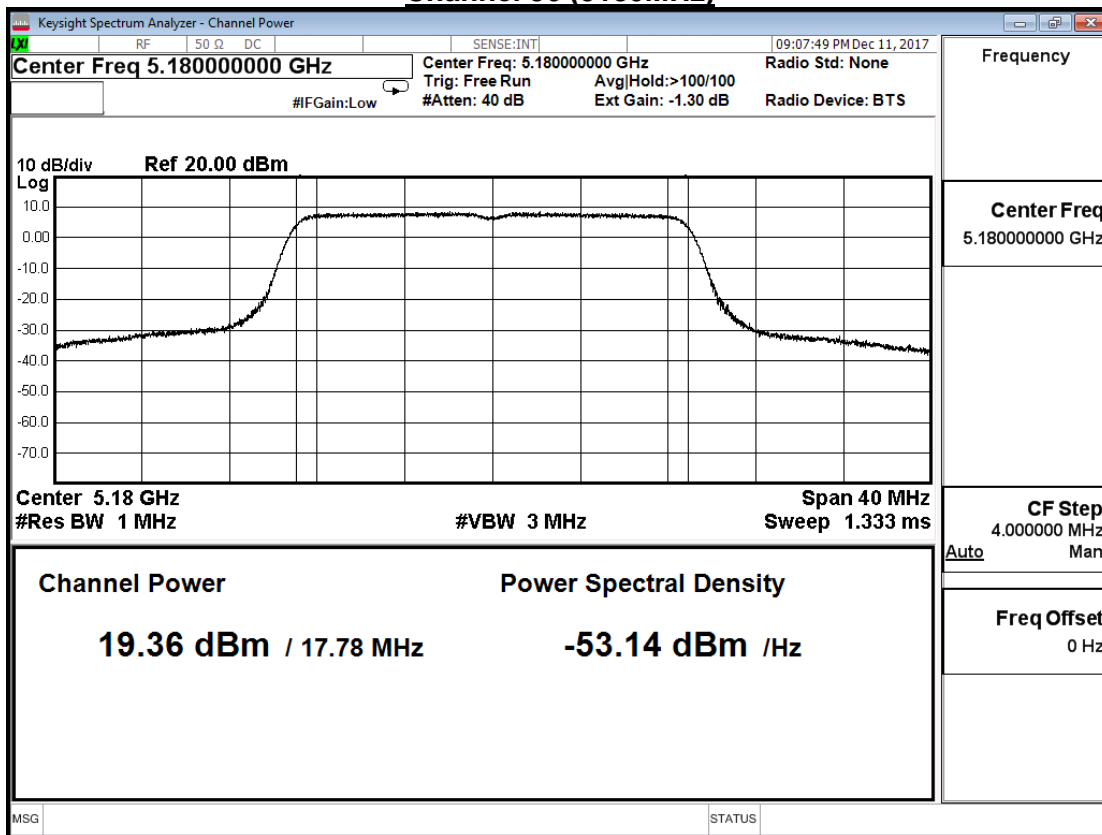
Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0)

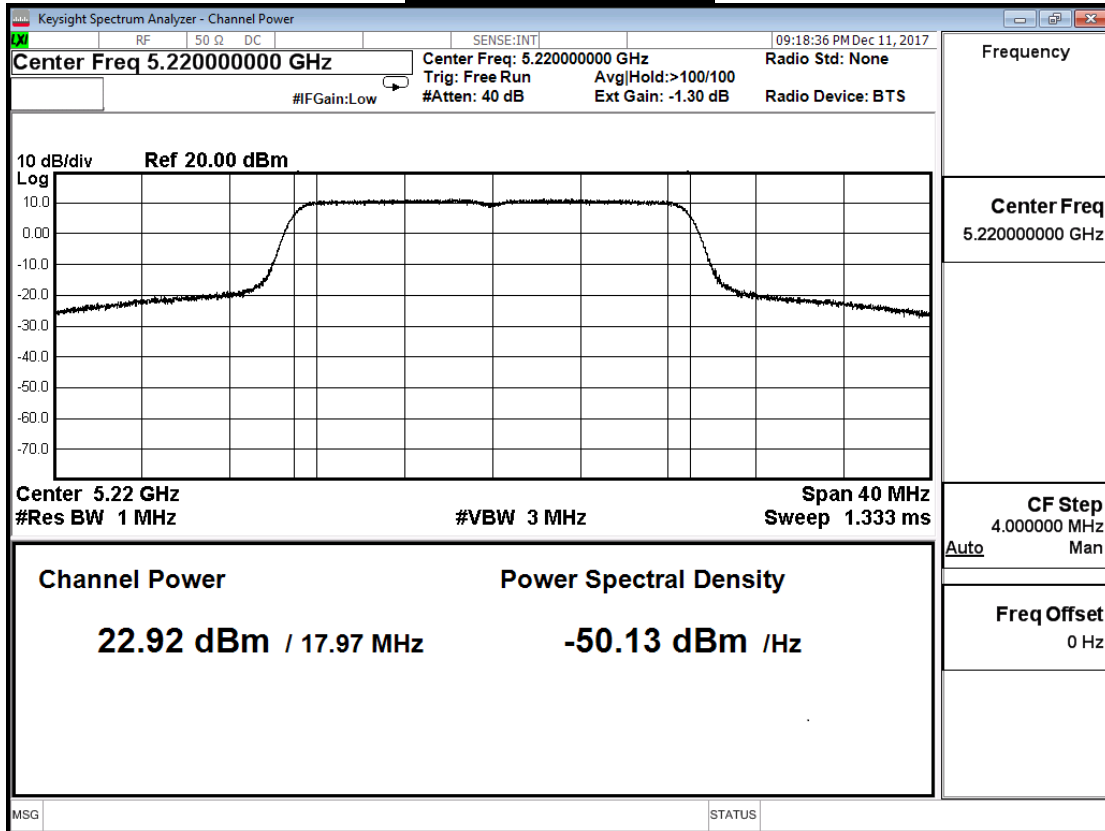
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	19.36	≤ 29.39
44	5220	22.92	≤ 29.39
48	5240	22.71	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

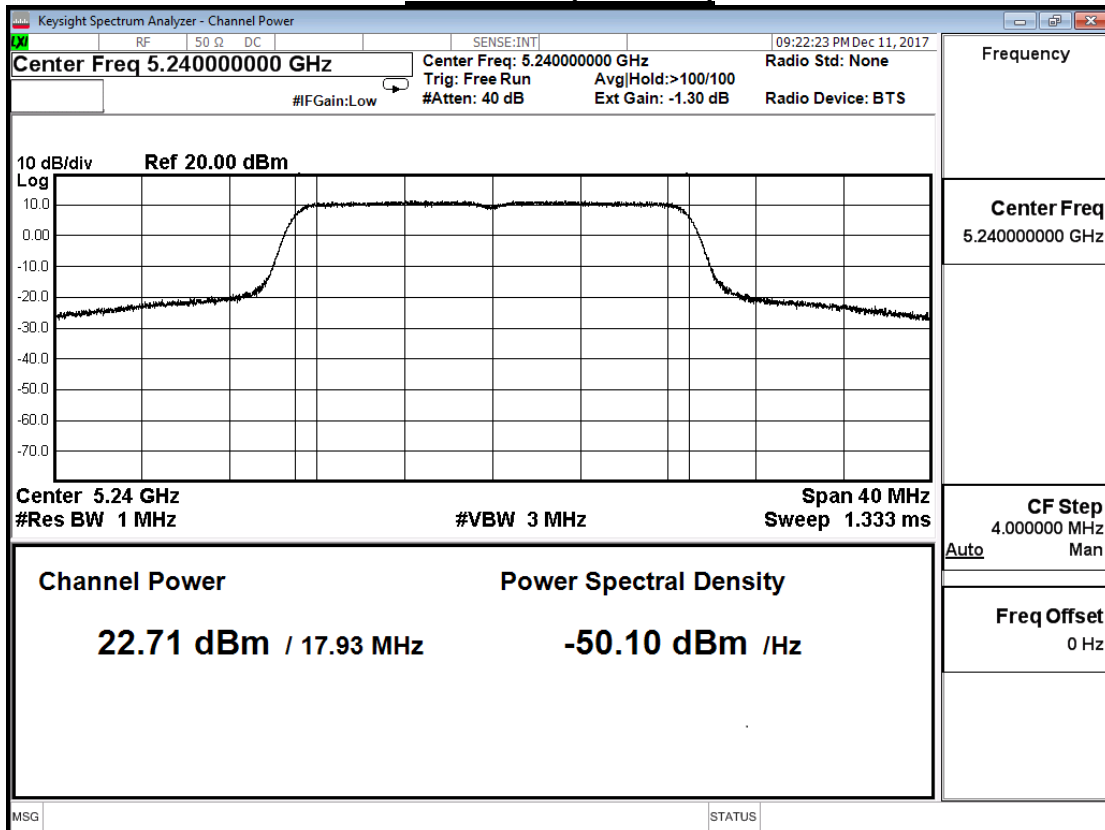
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



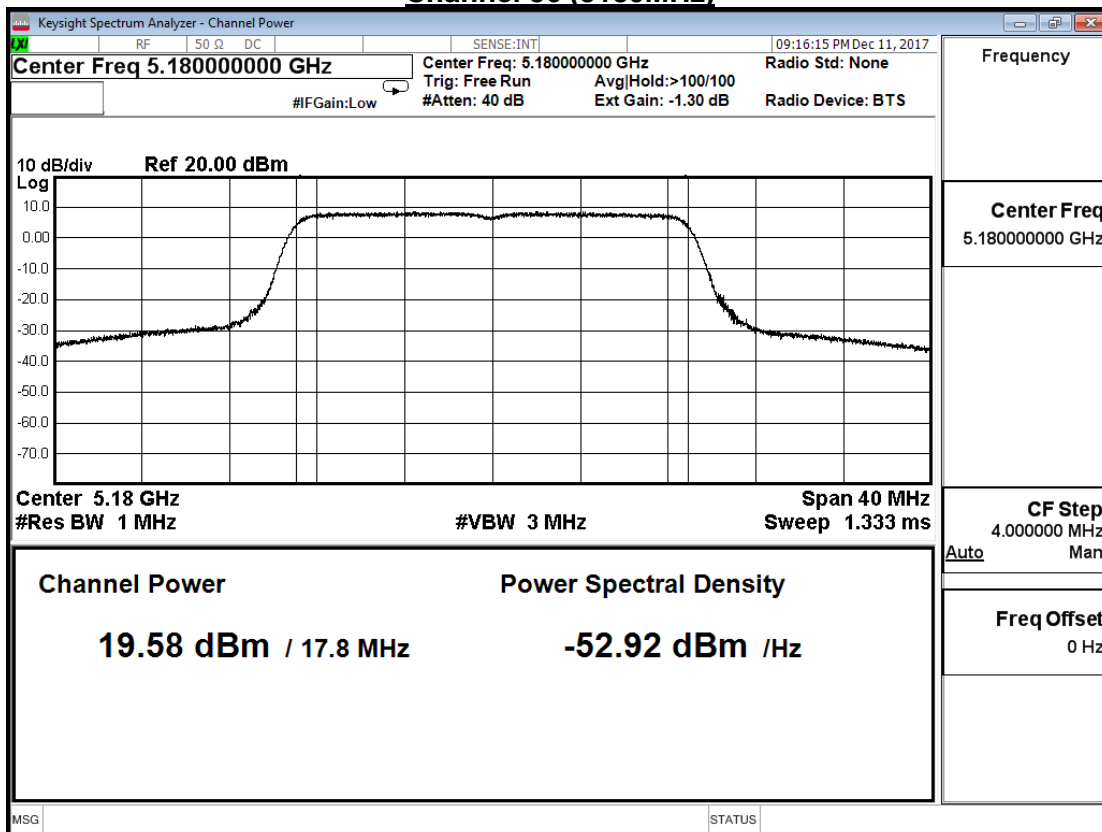
Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 1)

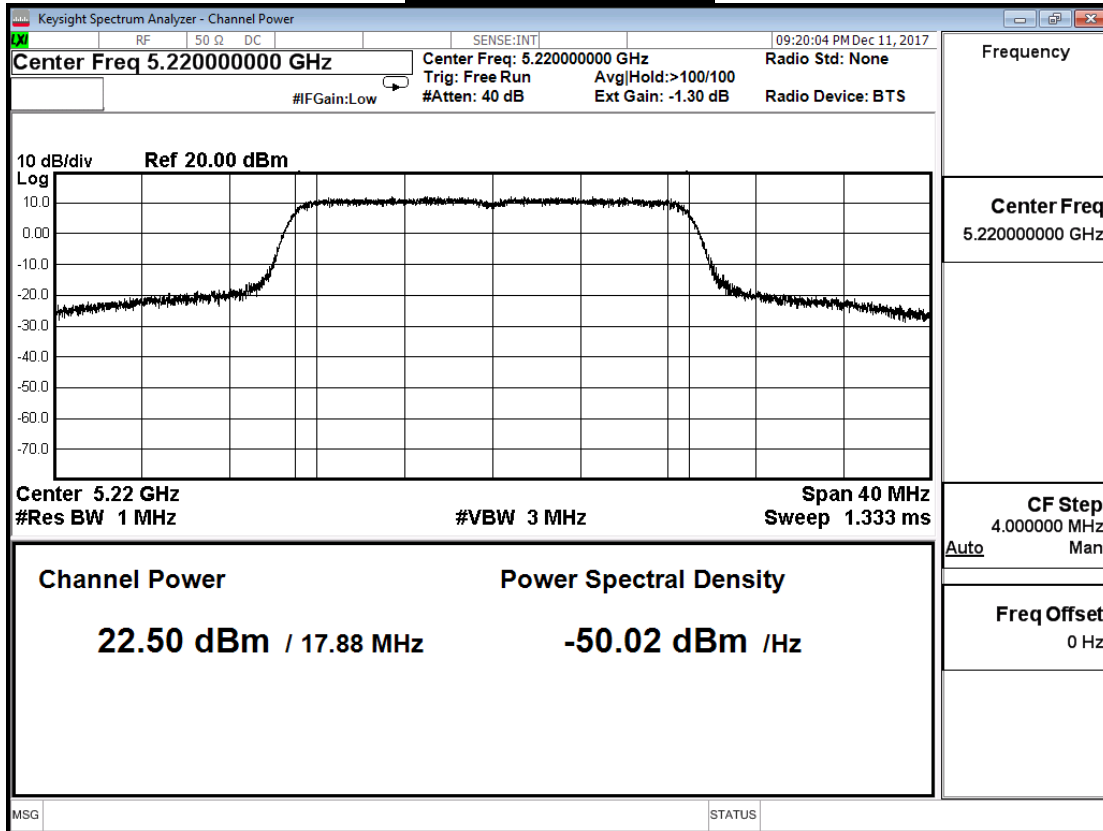
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	19.58	≤ 29.39
44	5220	22.50	≤ 29.39
48	5240	22.42	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

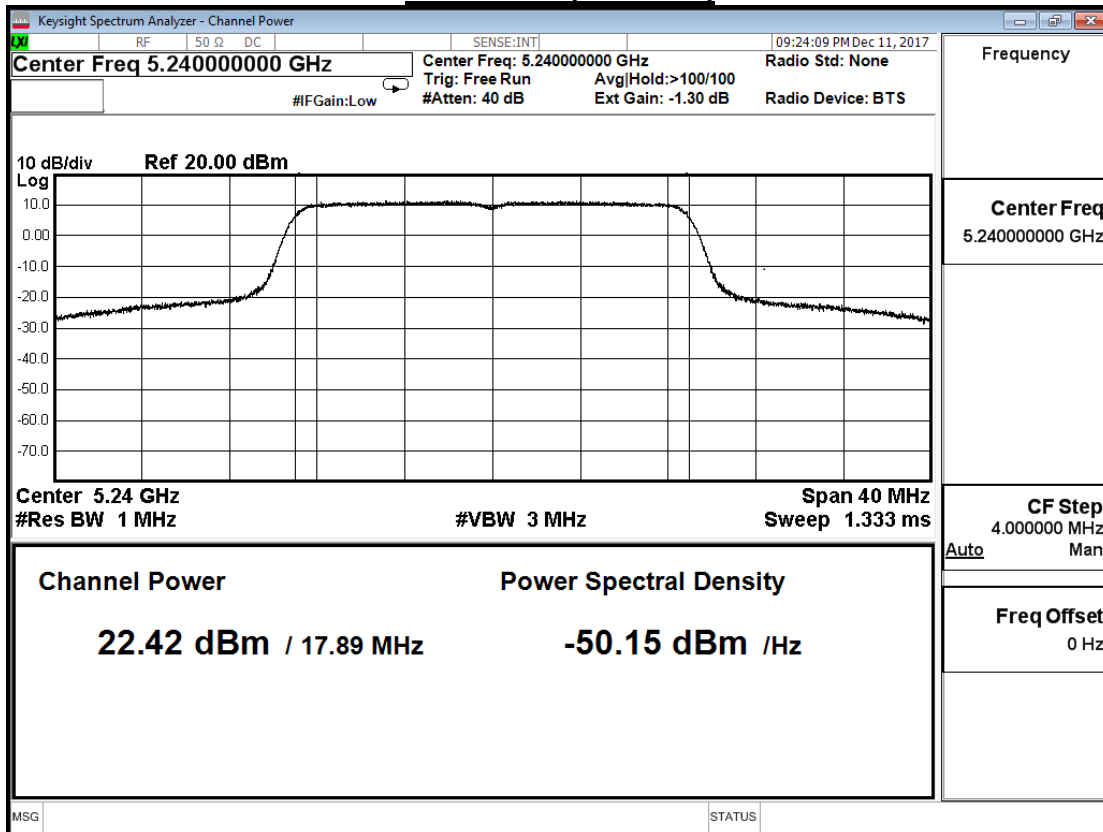
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
36	5180	22.482	≤ 29.39
44	5220	25.725	≤ 29.39
48	5240	25.578	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

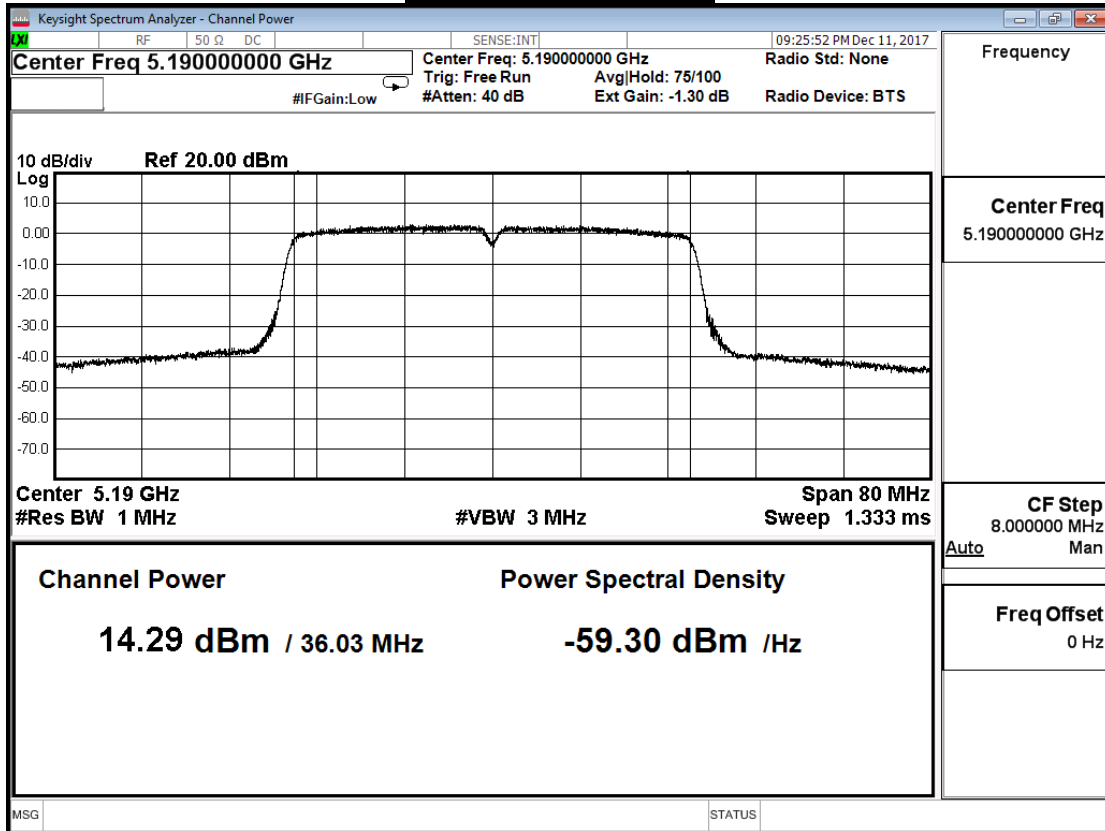
IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	14.29	≤ 29.39
46	5230	22.28	≤ 29.39

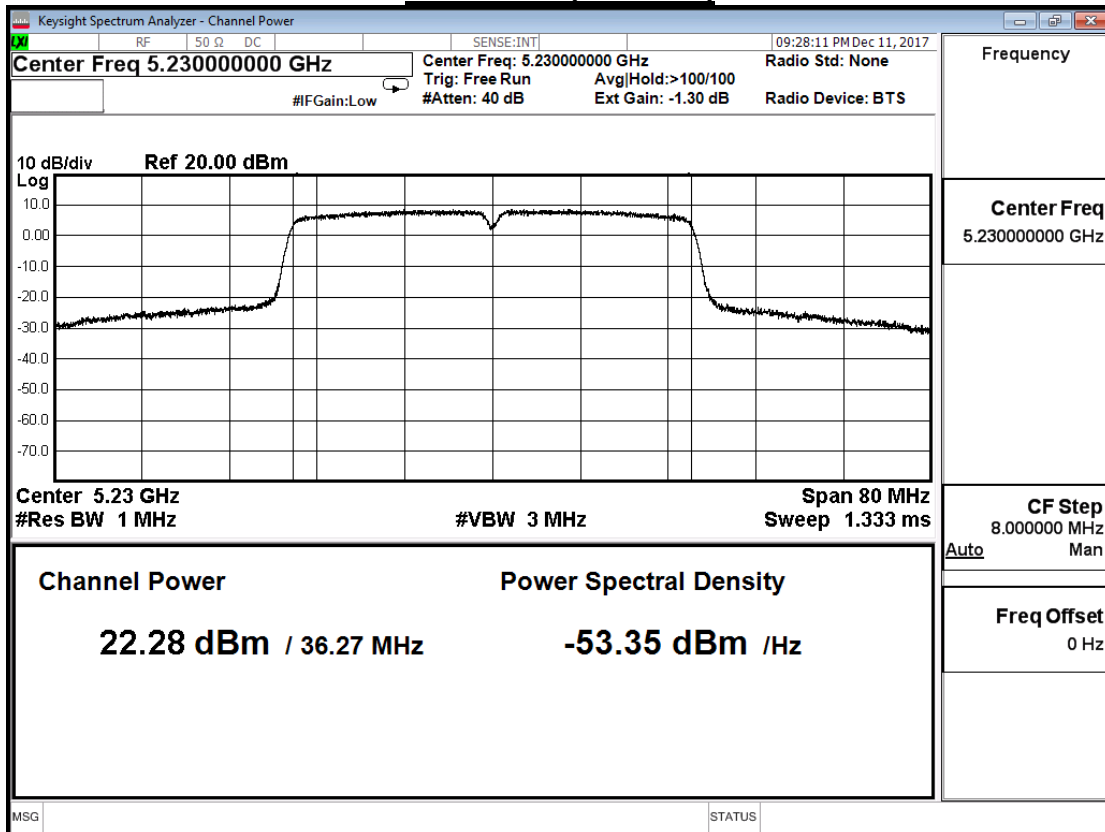
Note: Array Gain: Antenna gain $+10 \log(N) = 3.6 + 3.01 = 6.61 \text{dBi}$

Limit = $30 - (6.61 - 6) = 29.39 \text{ dBm}$

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

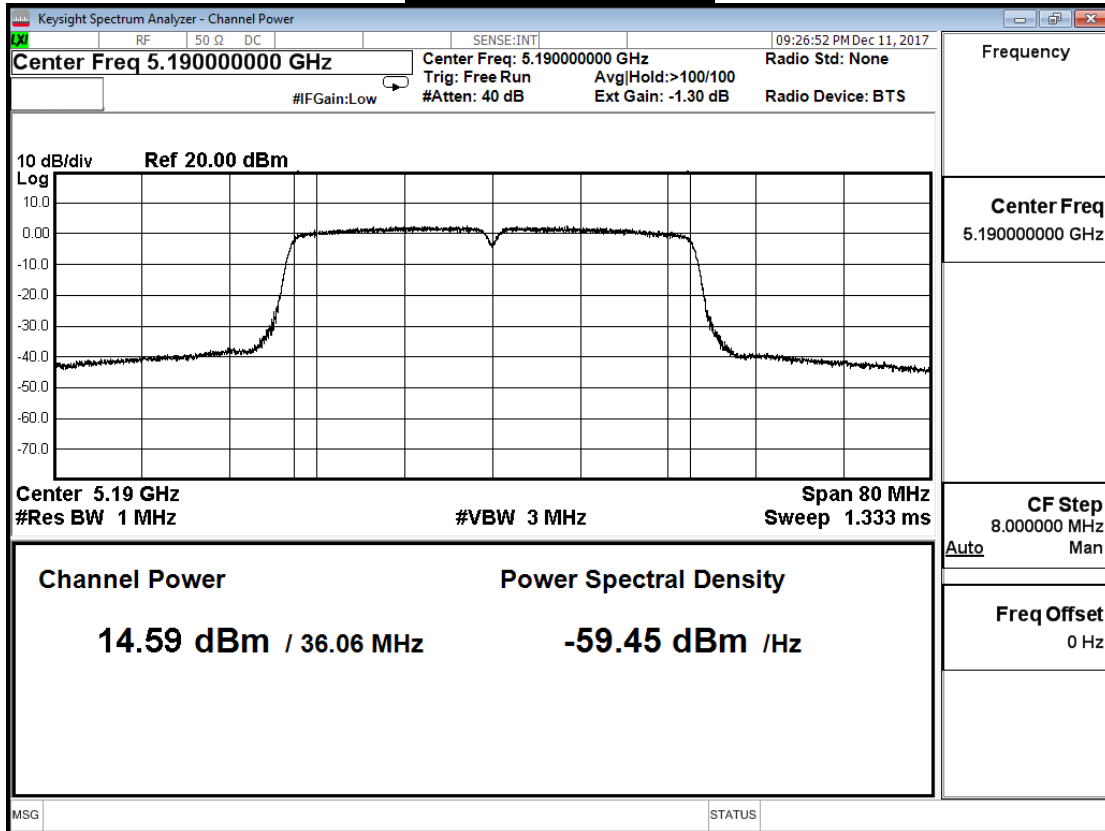
IEEE 802.11n(40MHz)(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	14.59	≤ 29.733
46	5230	22.20	≤ 29.733

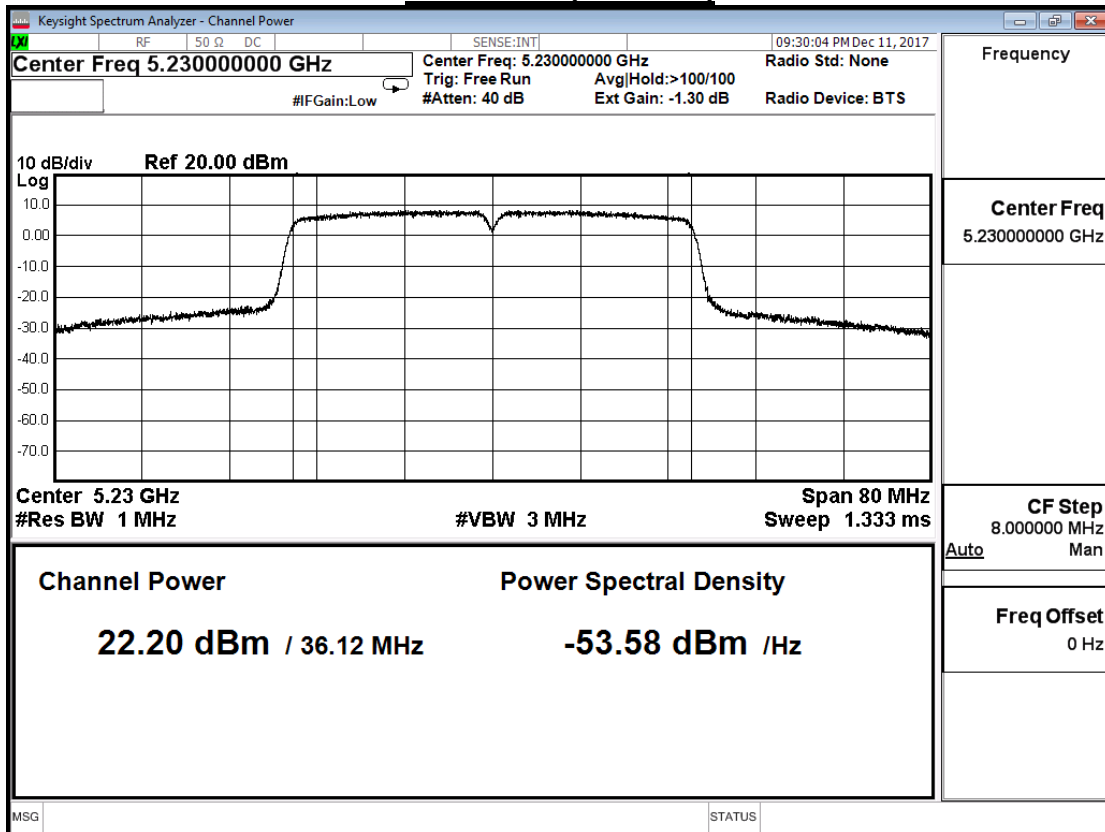
Note: Array Gain: Antenna gain +10 log(N) =3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
38	5190	17.453	≤ 29.39
46	5230	25.250	≤ 29.39

Note: Array Gain: Antenna gain $+10 \log(N) = 3.6 + 3.01 = 6.61 \text{ dBi}$

Limit = $30 - (6.61 - 6) = 29.39 \text{ dBm}$

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

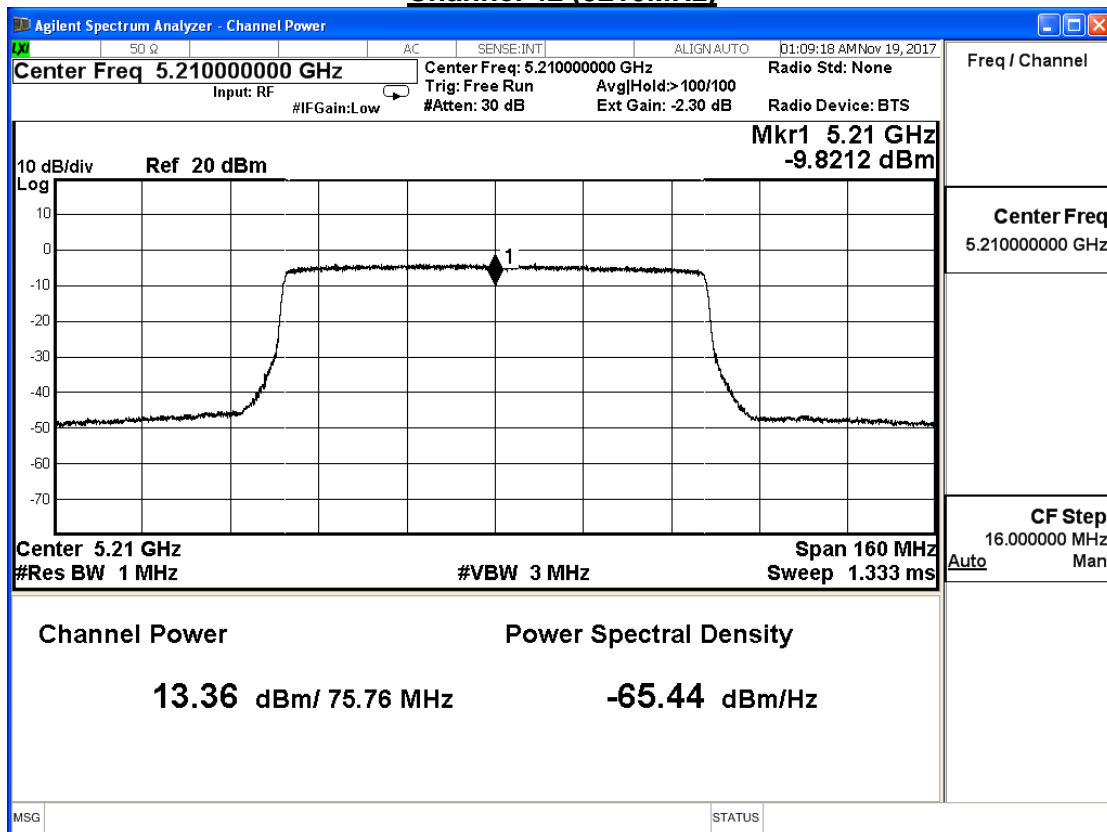
IEEE802.11ac(80MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	13.36	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Channel 42 (5210MHz)



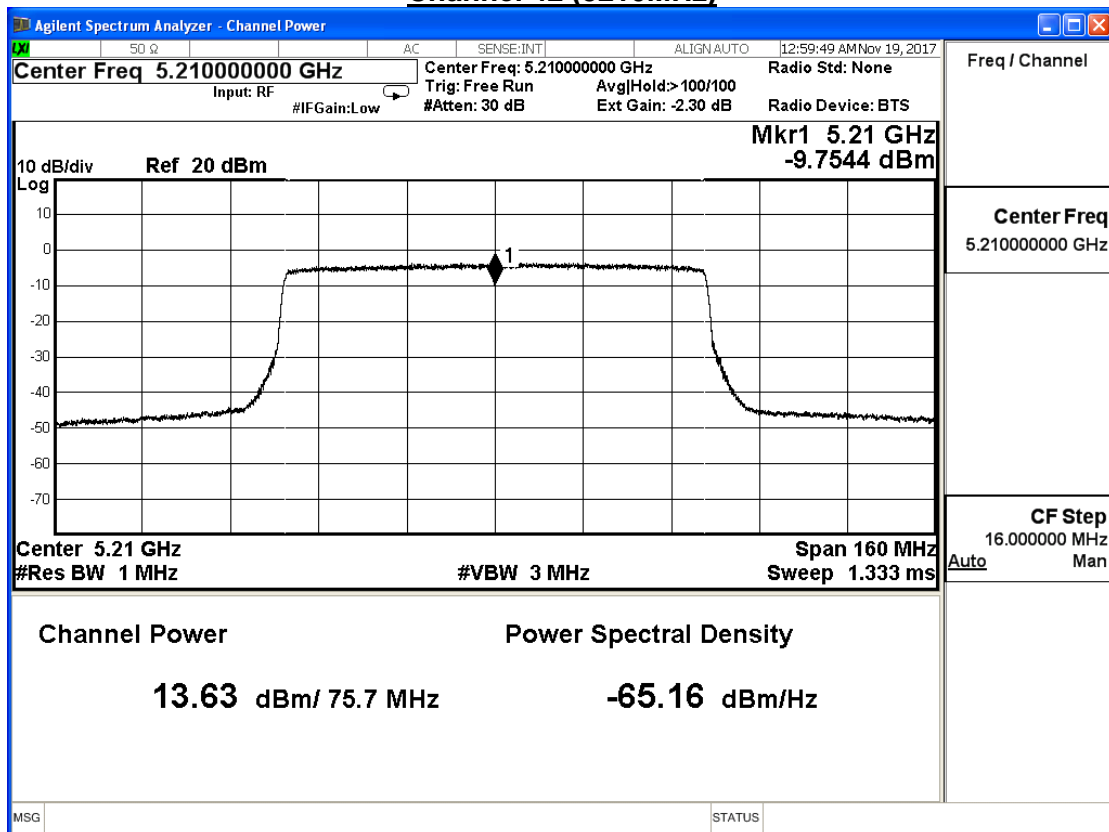
Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	13.63	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi
 Limit = 30-(6.61-6) = 29.39 dBm

Channel 42 (5210MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
42	5210	16.507	≤ 29.39

Note: Array Gain: Antenna gain +10 log(N) = 3.6+3.01 = 6.61dBi

Limit = 30-(6.61-6) = 29.39 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

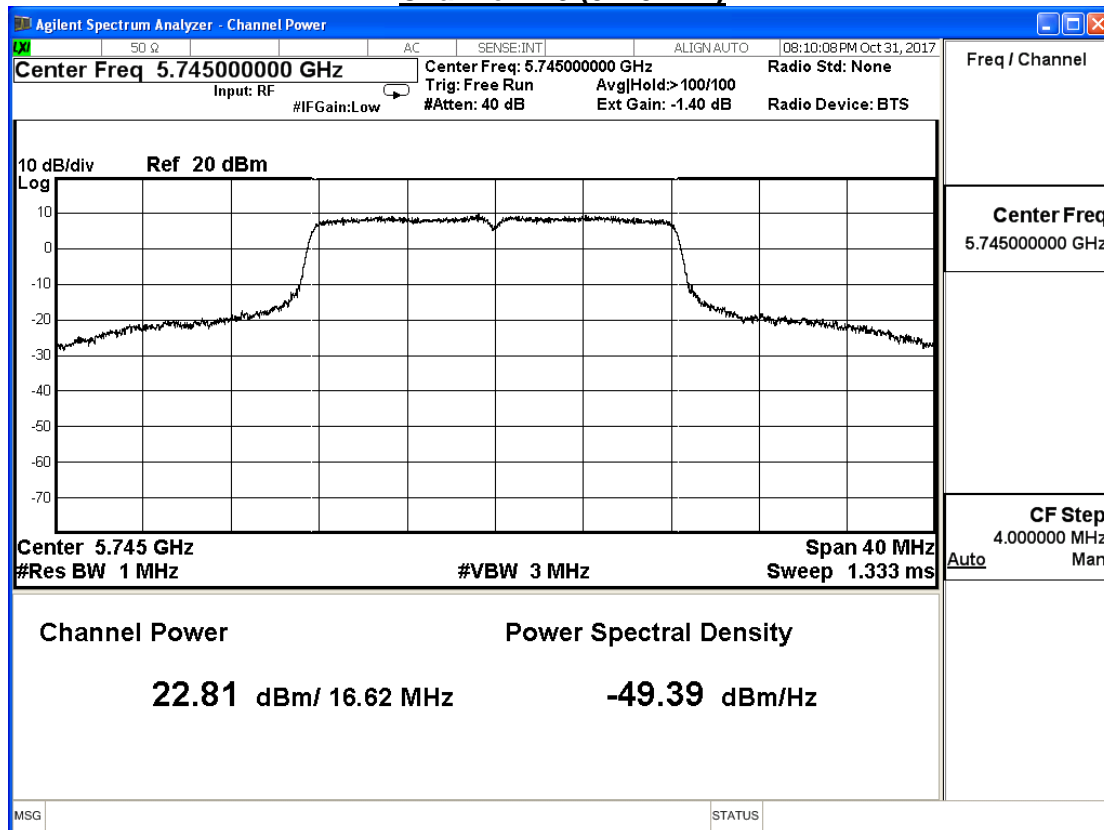
IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	22.81	≤ 30
157	5785	22.73	≤ 30
165	5825	23.54	≤ 30

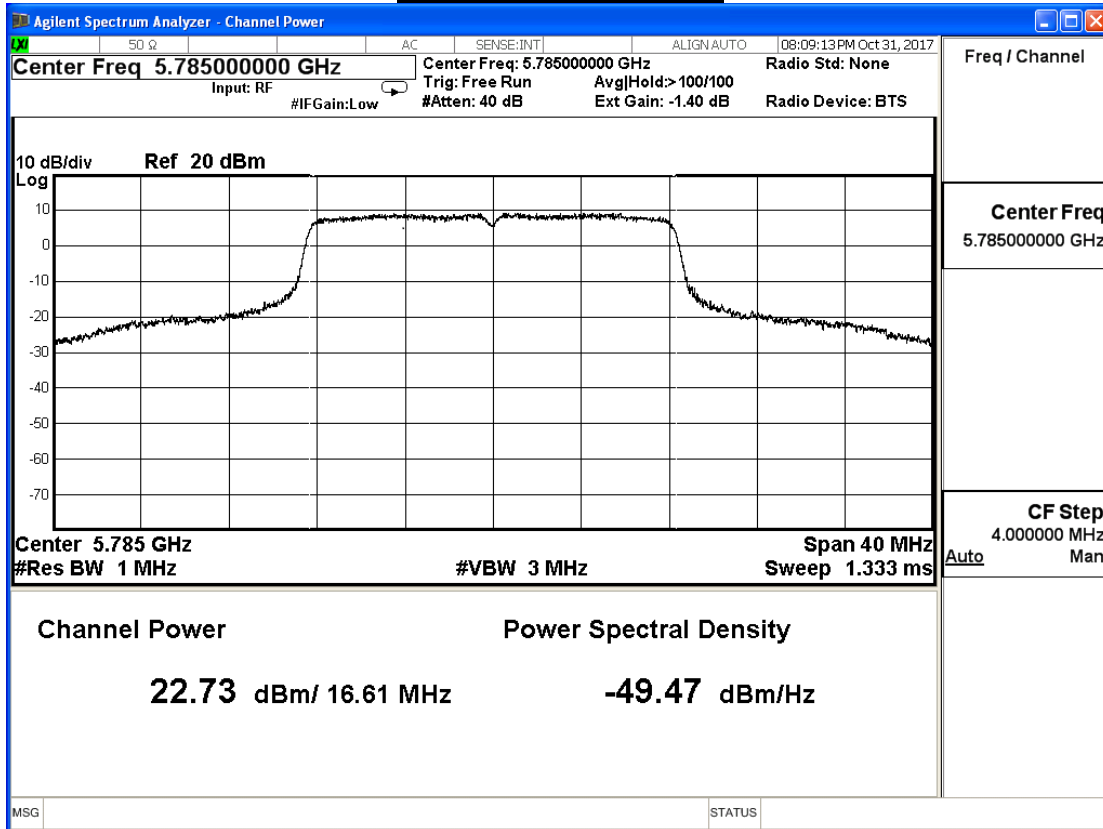
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	MCS index							Required Limit
		6	12	18	24	36	48	54	
149	5745	22.810	--	--	--	--	--	--	≤30dBm
157	5785	22.730	22.590	22.450	22.310	22.160	22.020	21.870	
165	5825	23.540	--	--	--	--	--	--	

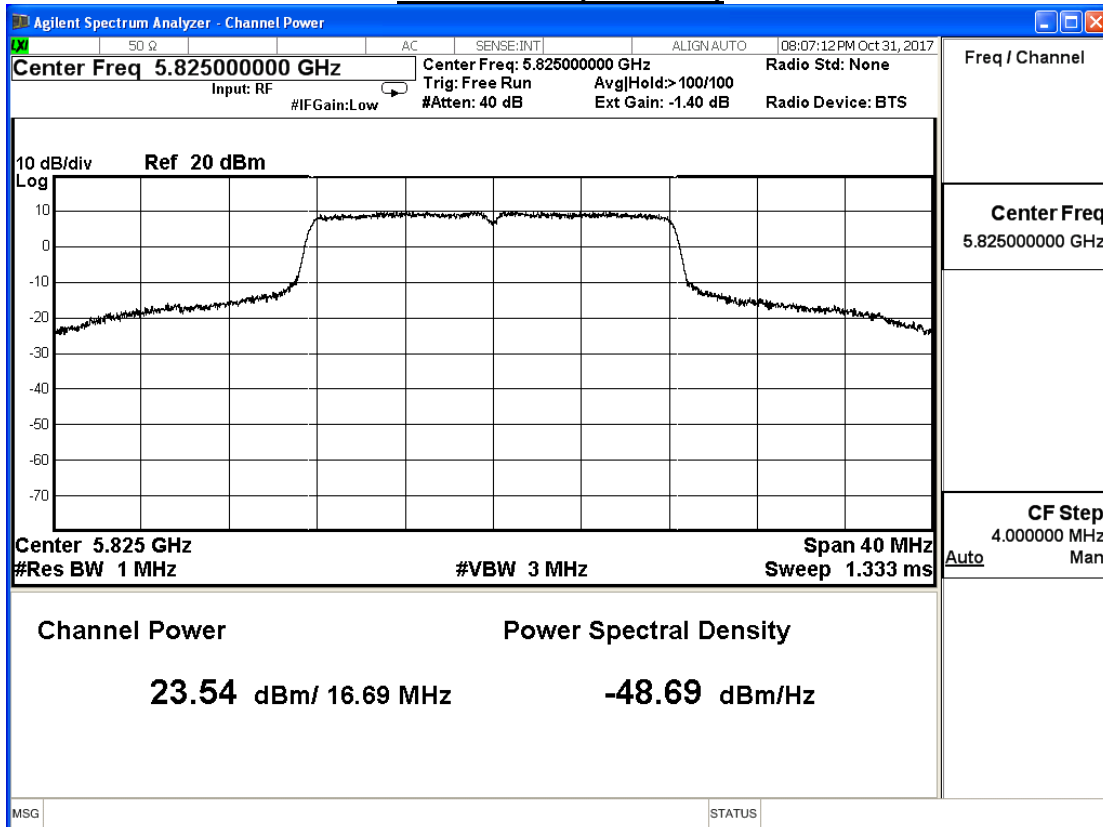
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

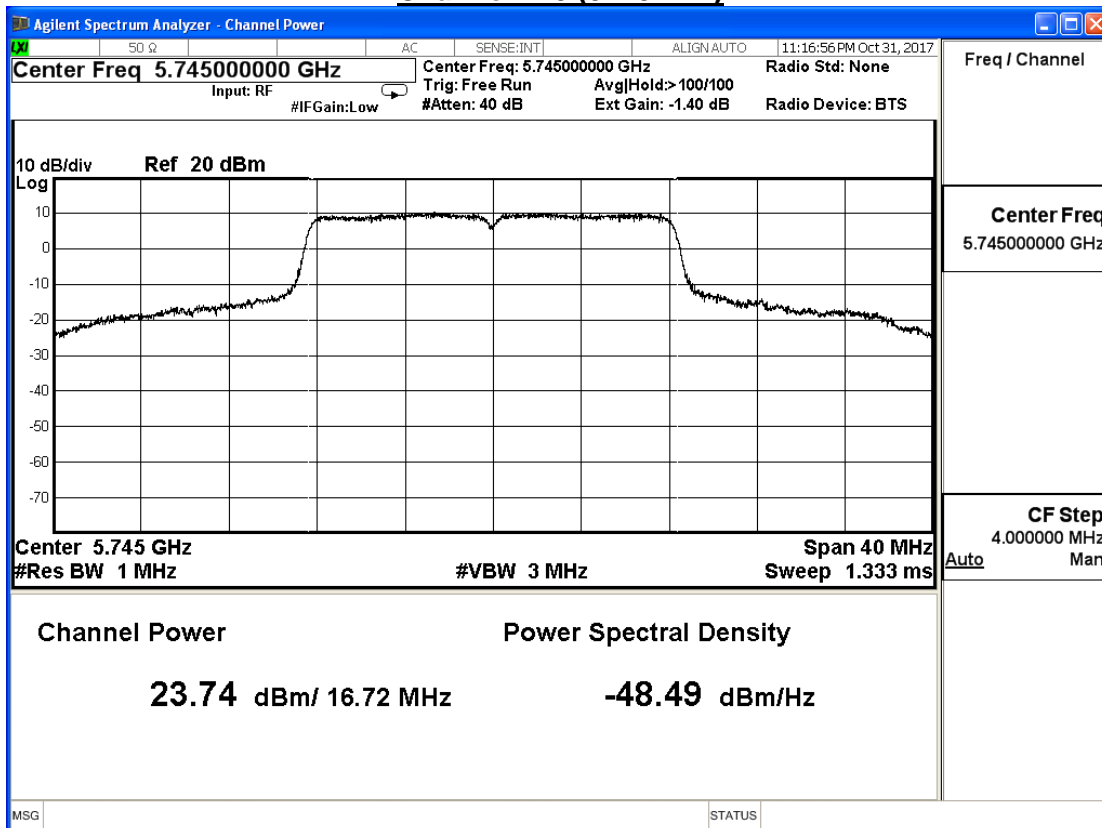
IEEE 802.11a (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.74	≤ 30
157	5785	22.18	≤ 30
165	5825	23.87	≤ 30

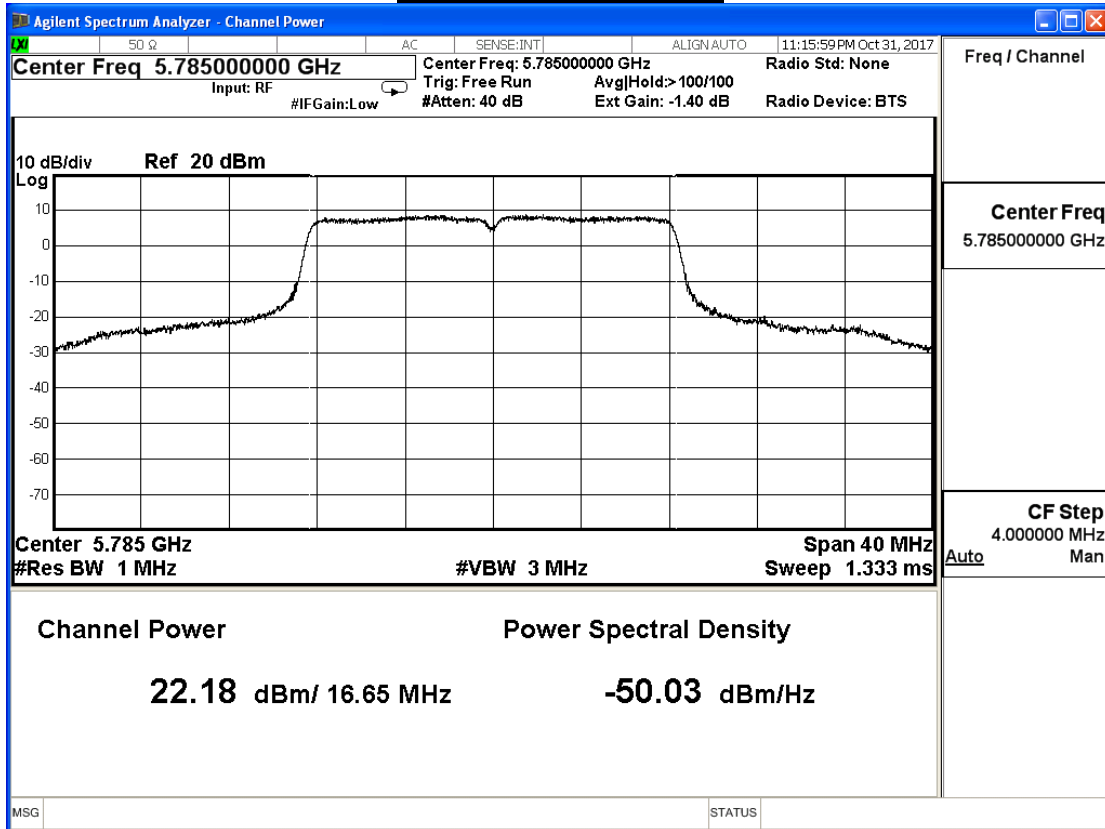
The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	MCS index							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.740	--	--	--	--	--	--	≤30dBm
157	5785	22.180	22.050	21.910	21.780	21.650	21.510	21.370	
165	5825	23.870	--	--	--	--	--	--	

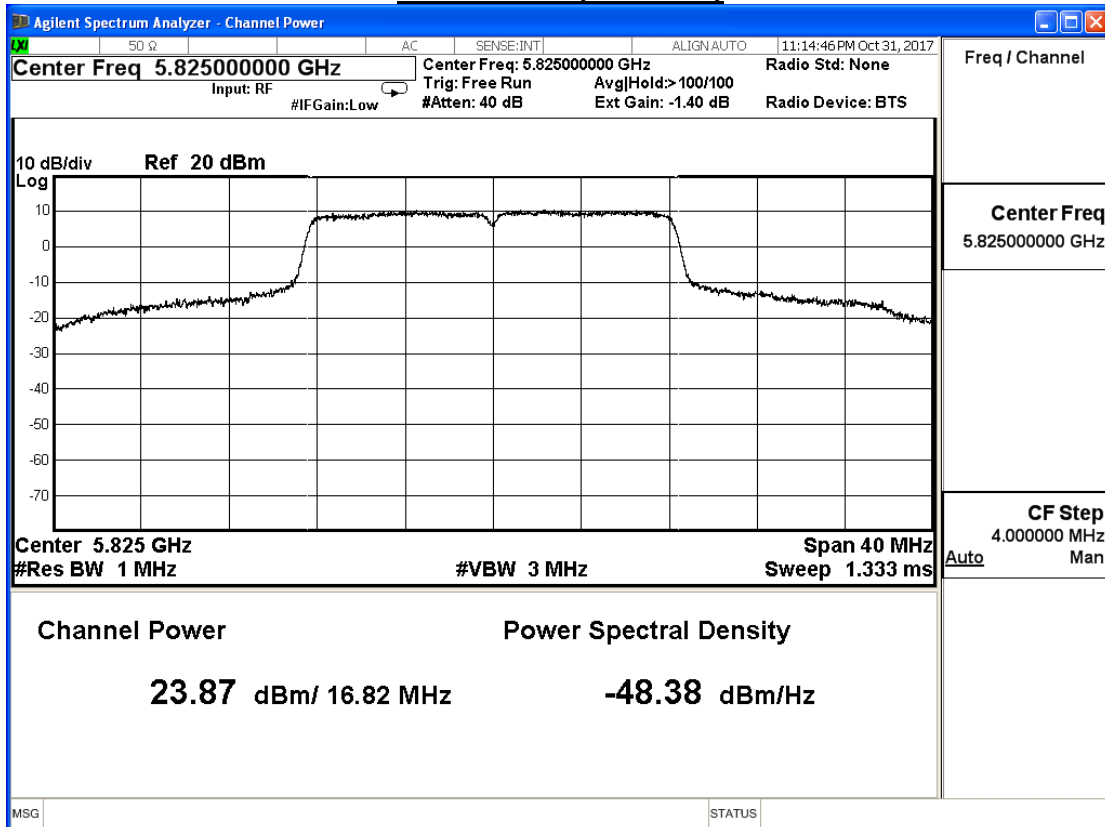
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11a (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	26.310	≤30
157	5785	25.474	≤30
165	5825	26.718	≤30

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 0)

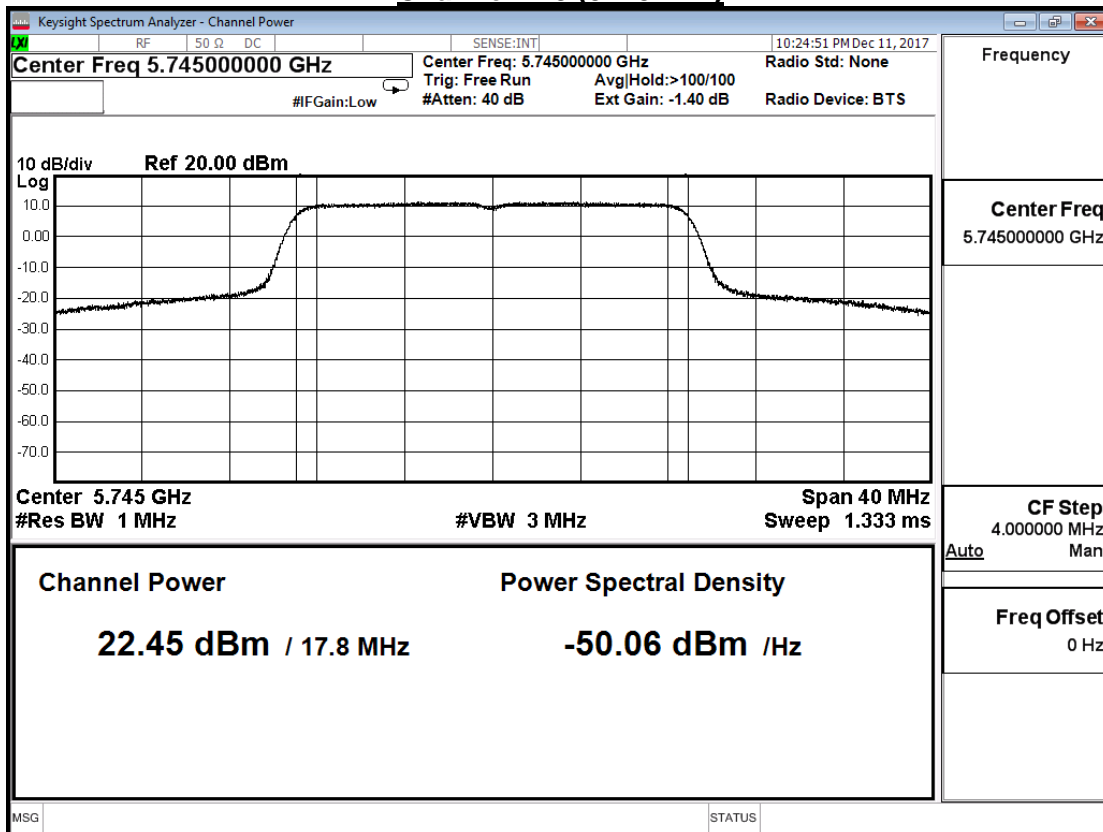
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	22.45	≤ 29.49
157	5785	22.09	≤ 29.49
165	5825	22.92	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

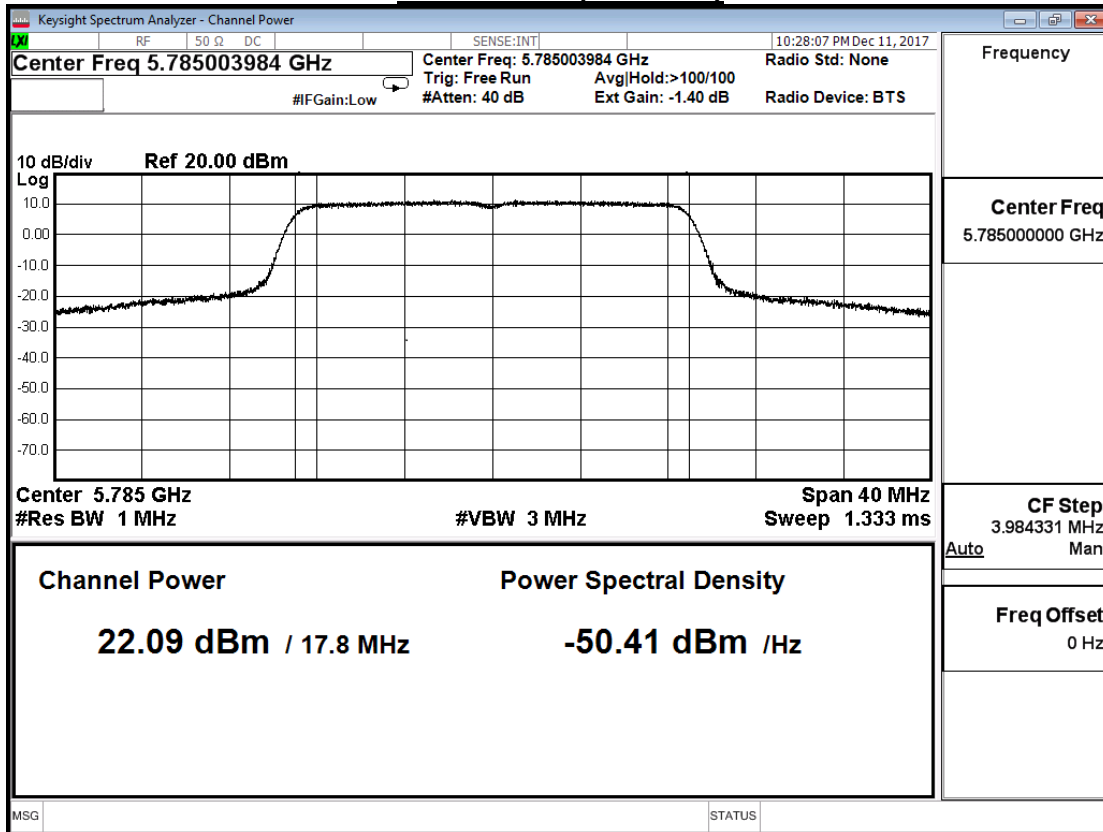
The worst emission of data rate is 8 Mbps.

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
149	5745	22.450	--	--	--	--	--	--	--	≤29.49dBm
157	5785	22.090	21.950	21.810	21.670	21.530	21.400	21.260	21.120	
165	5825	22.920	--	--	--	--	--	--	--	

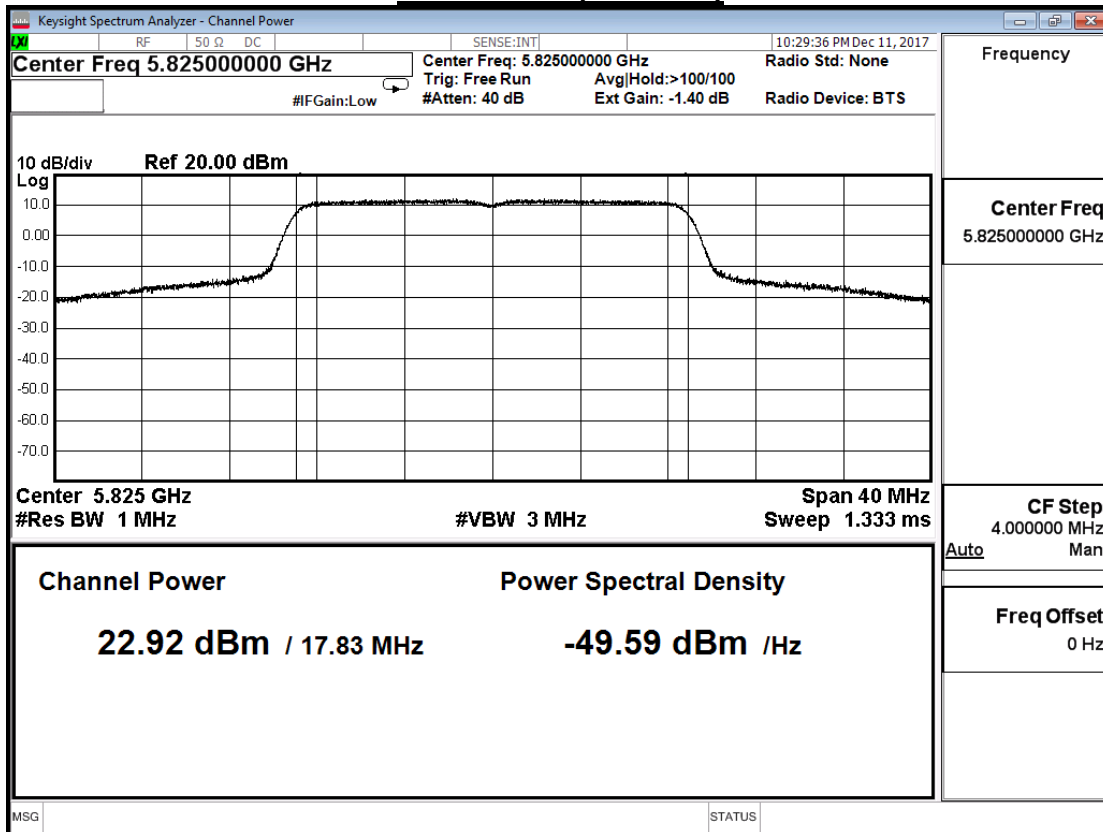
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 1)

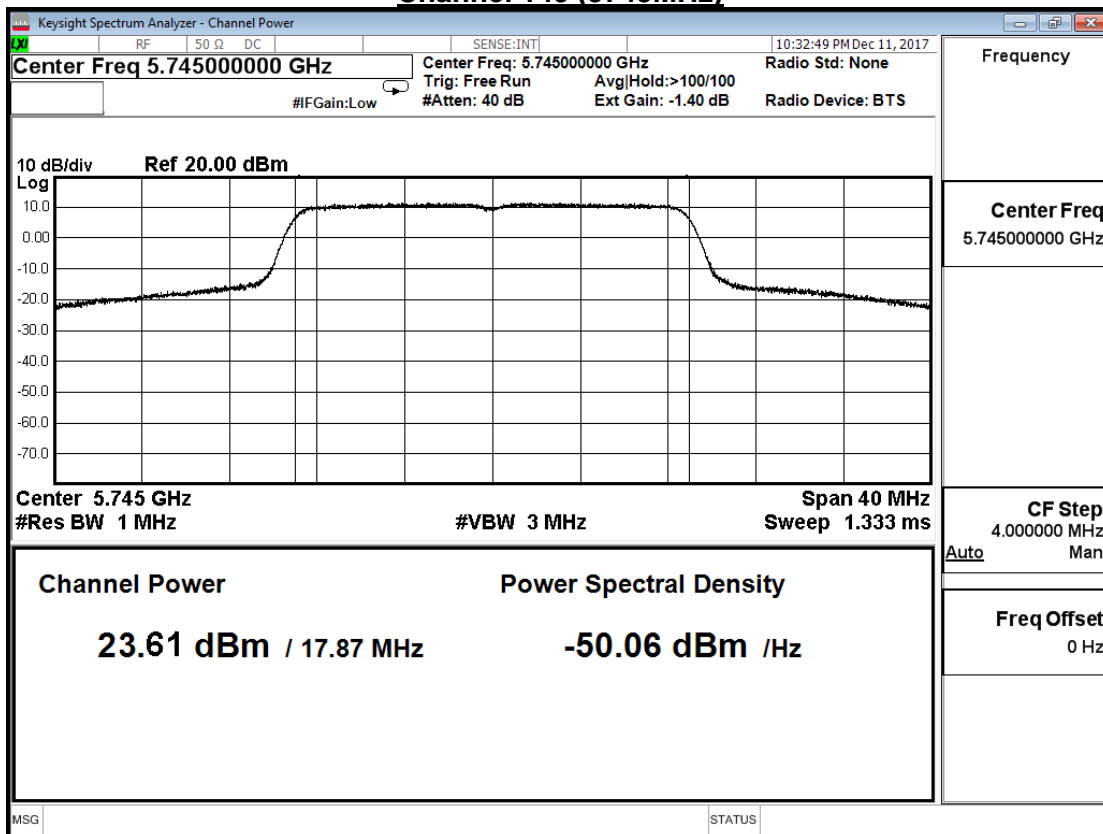
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.61	≤ 29.49
157	5785	22.02	≤ 29.49
165	5825	23.79	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

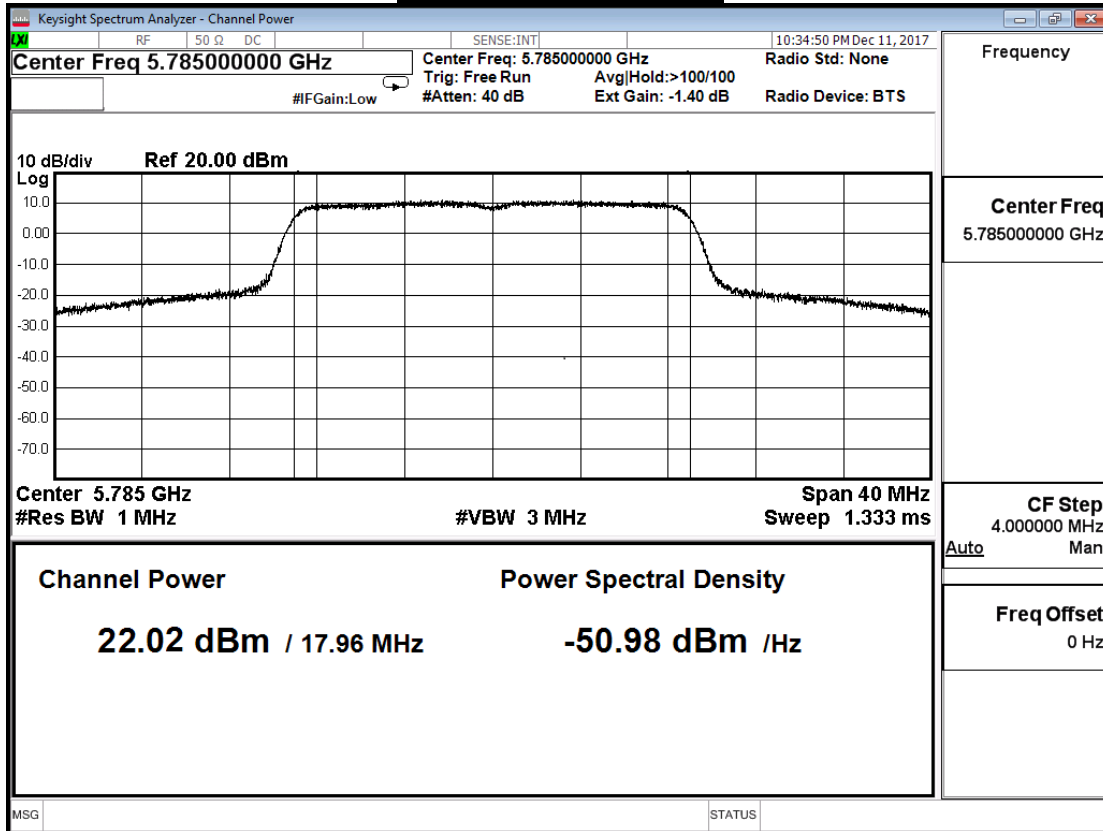
The worst emission of data rate is 8 Mbps.

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
149	5745	23.610	--	--	--	--	--	--	--	≤29.49dBm
157	5785	22.020	21.890	21.750	21.600	21.460	21.310	21.170	21.040	
165	5825	23.790	--	--	--	--	--	--	--	

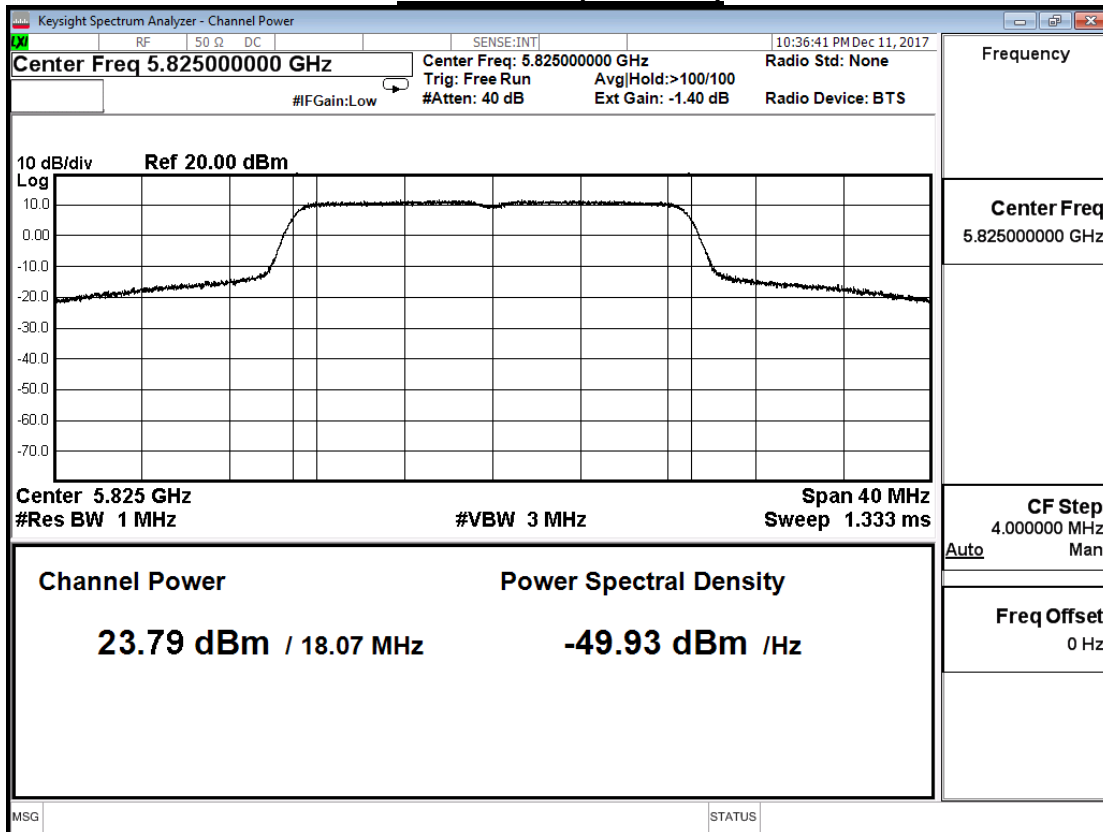
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	26.079	≤29.49
157	5785	25.065	≤29.49
165	5825	26.387	≤29.49

Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 0)

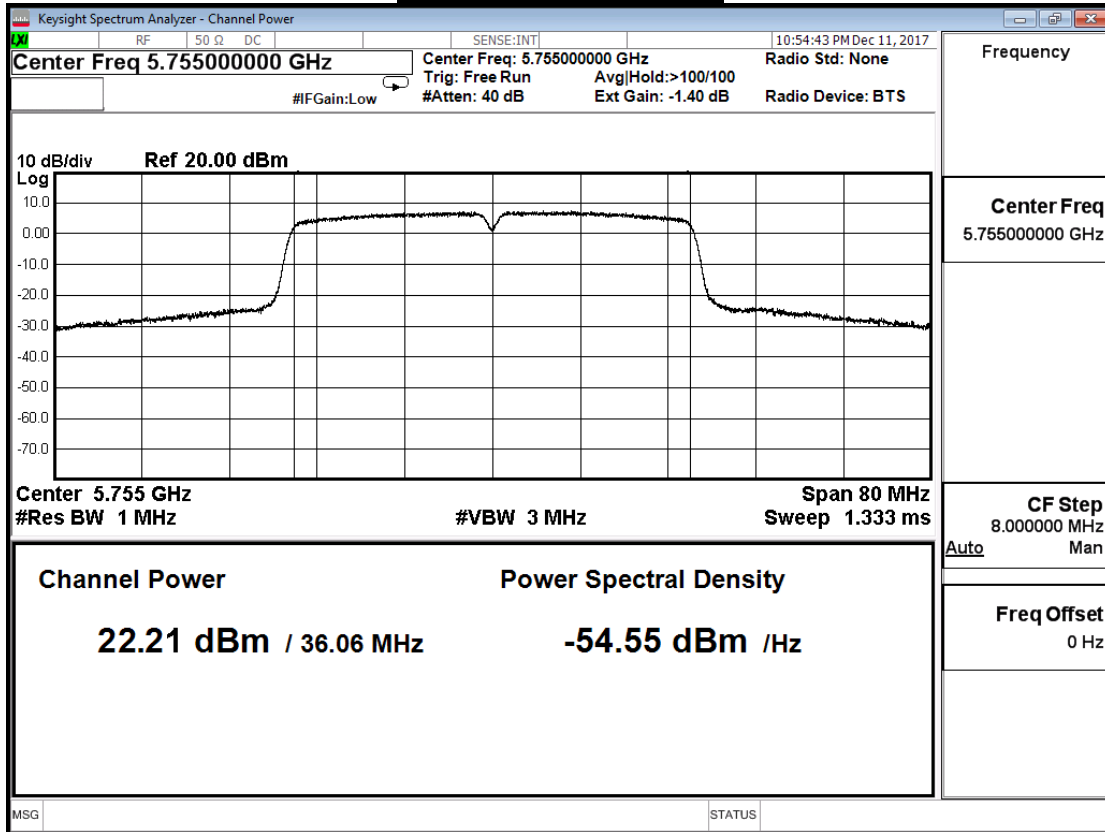
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	22.21	≤ 29.49
159	5795	23.22	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

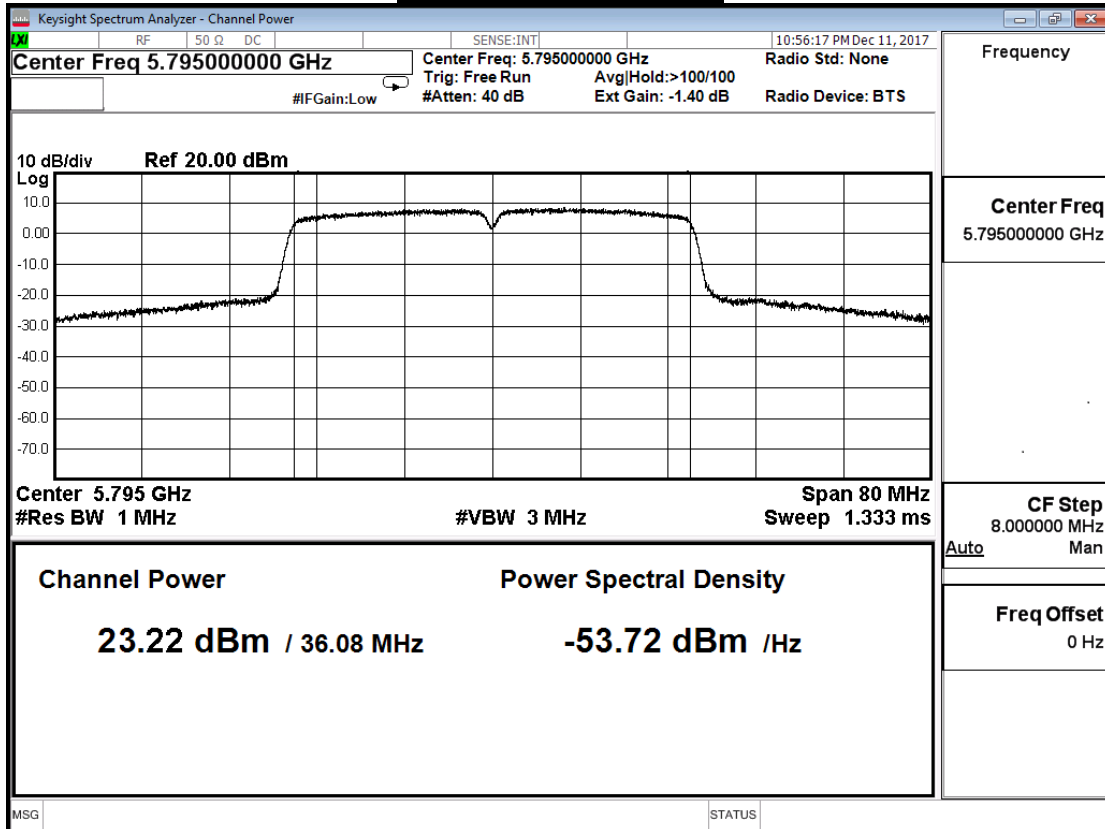
The worst emission of data rate is MCS8

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
151	5755	22.210	--	--	--	--	--	--	--	≤29.49dBm
159	5795	23.220	23.080	22.940	22.800	22.670	22.540	22.410	22.270	

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.19	≤ 29.49
159	5795	23.33	≤ 29.49

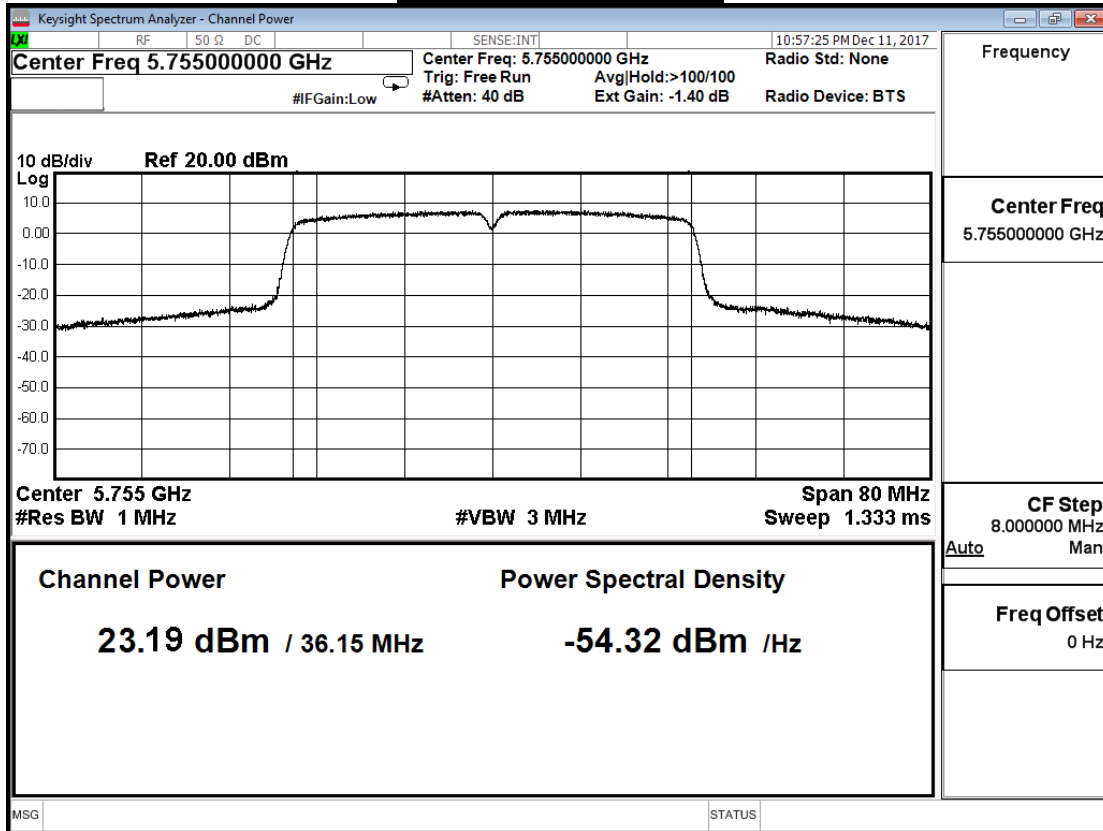
Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi

Limit = 30-(6.51-6) = 29.49 dBm

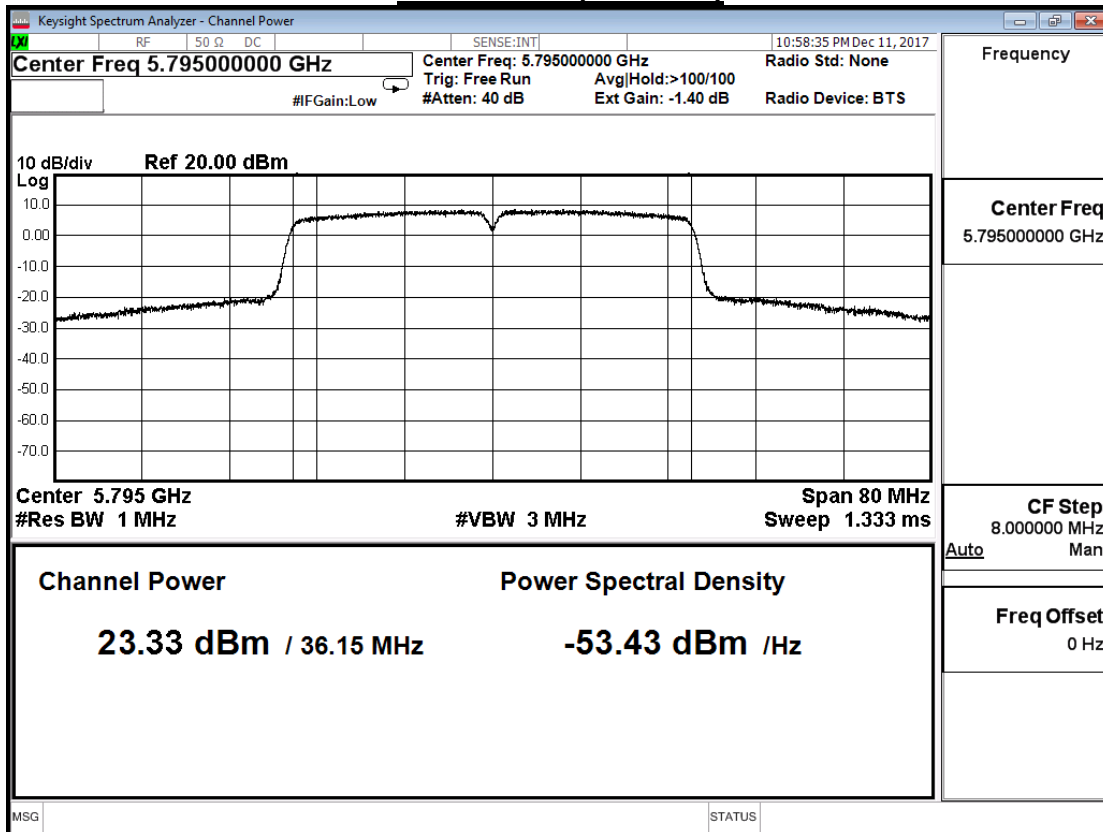
The worst emission of data rate is MCS8

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS index								Required Limit
		8	9	10	11	12	13	14	15	
151	5755	23.190	--	--	--	--	--	--	--	≤29.49dBm
159	5795	23.330	23.200	23.070	22.930	22.780	22.630	22.480	22.340	

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	25.738	≤ 29.49
159	5795	26.286	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi

Limit = 30-(6.51-6) = 29.49 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

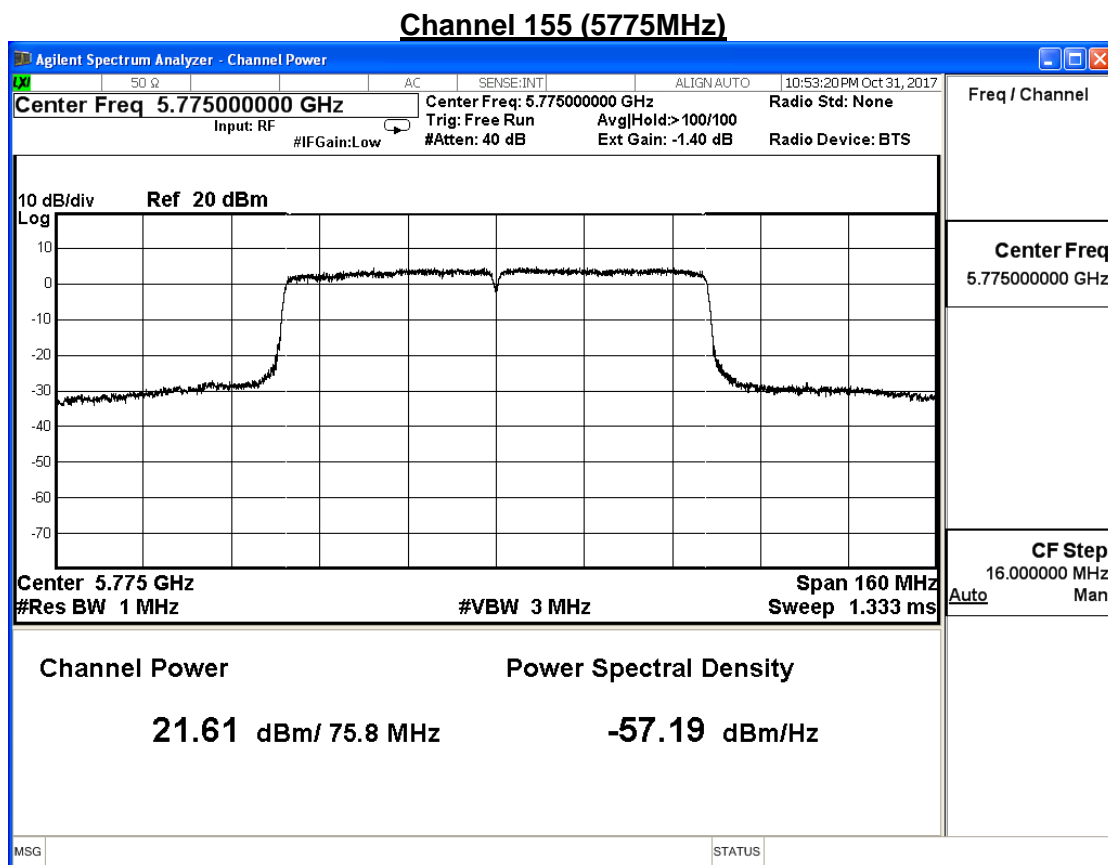
IEEE802.11ac(80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	21.61	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

The worst emission of data rate is MCS0

Peak Power Output (dBm)												
Channel No	Frequency (MHz)	MCS index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
151	5755	21.61	21.47	21.34	21.21	21.08	20.93	20.80	20.67	20.53	20.39	≤29.49dBm



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

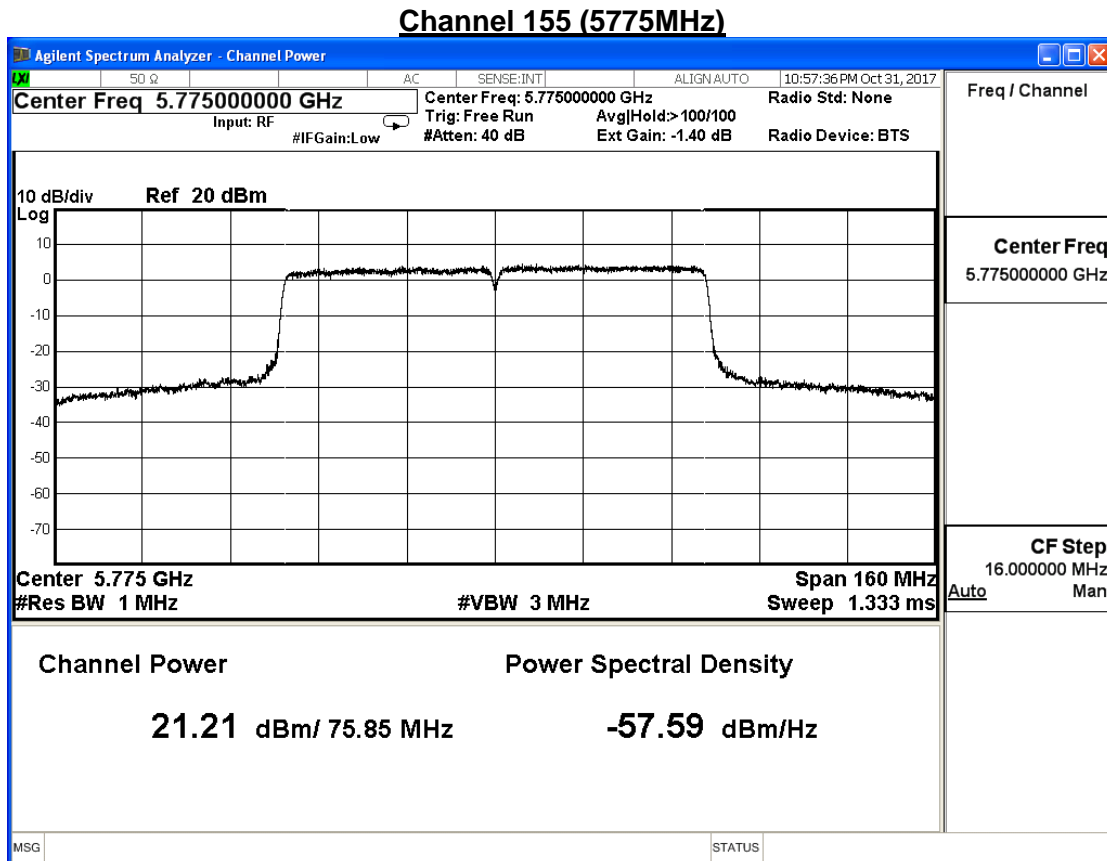
IEEE802.11ac(80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	21.21	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

The worst emission of data rate is MCS0

Peak Power Output (dBm)												
Channel No	Frequency (MHz)	MCS index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
151	5755	21.21	21.06	20.91	20.77	20.63	20.50	20.36	20.21	20.07	19.94	≤29.49dBm



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	24.425	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi

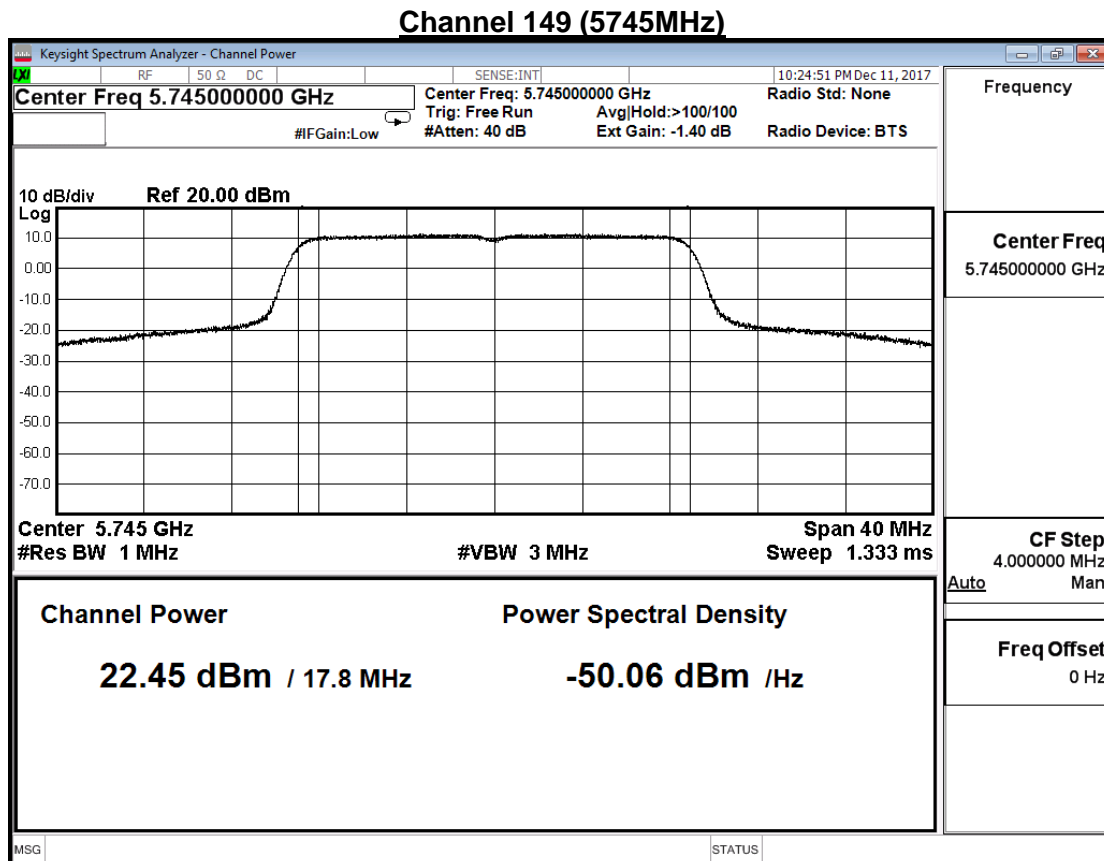
Limit = 30-(6.51-6) = 29.49 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

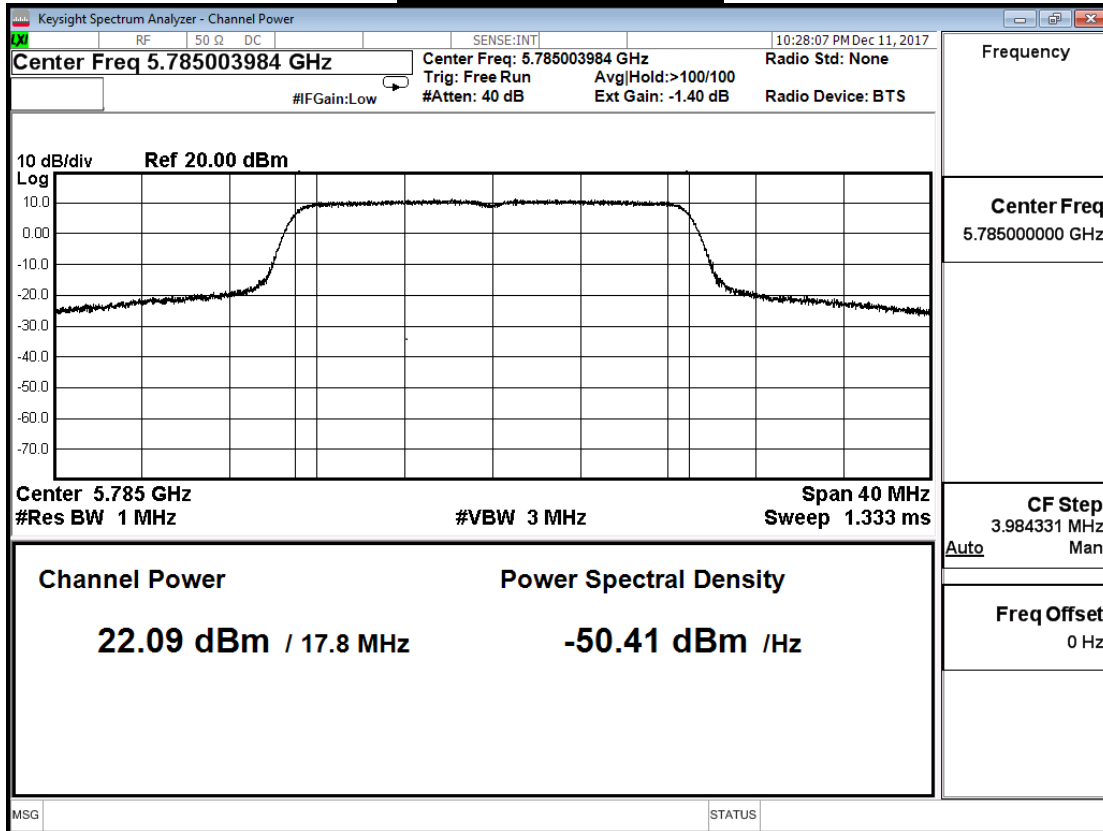
IEEE 802.11n(20MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	22.45	≤ 29.49
157	5785	22.09	≤ 29.49
165	5825	22.92	≤ 29.49

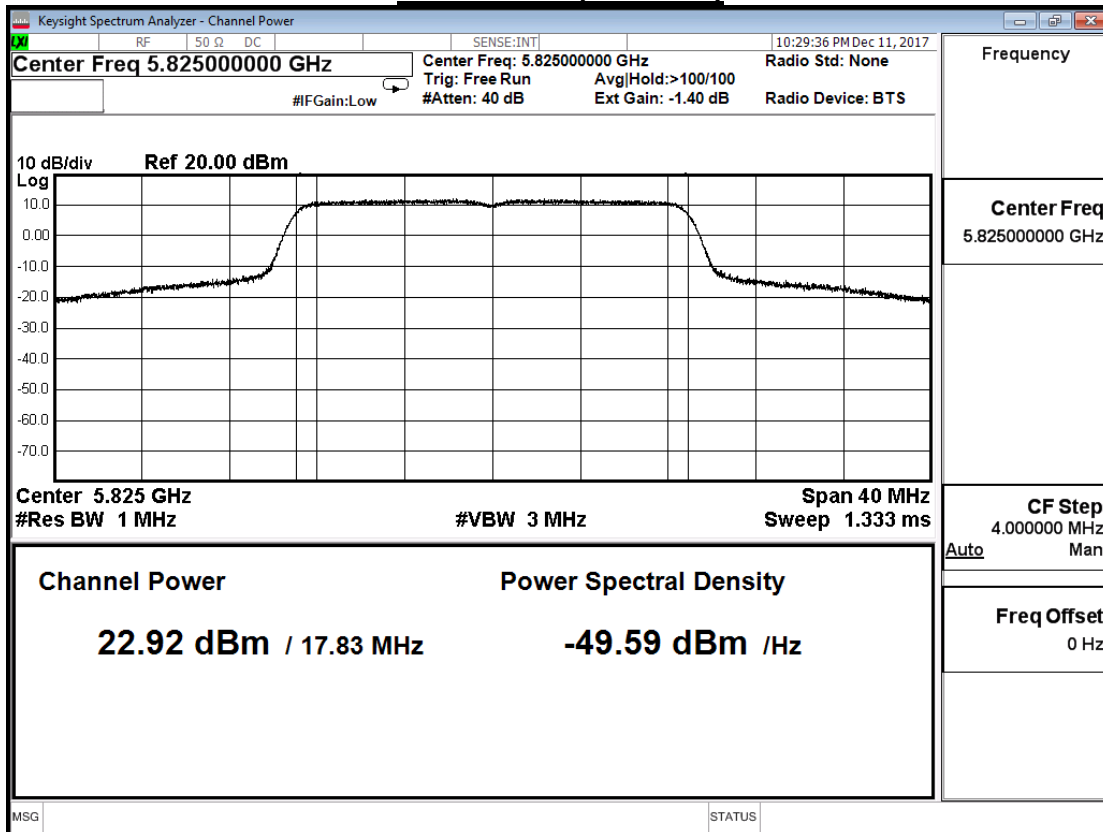
Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm



Channel 157 (5785MHz)



Channel 165 (5825MHz)



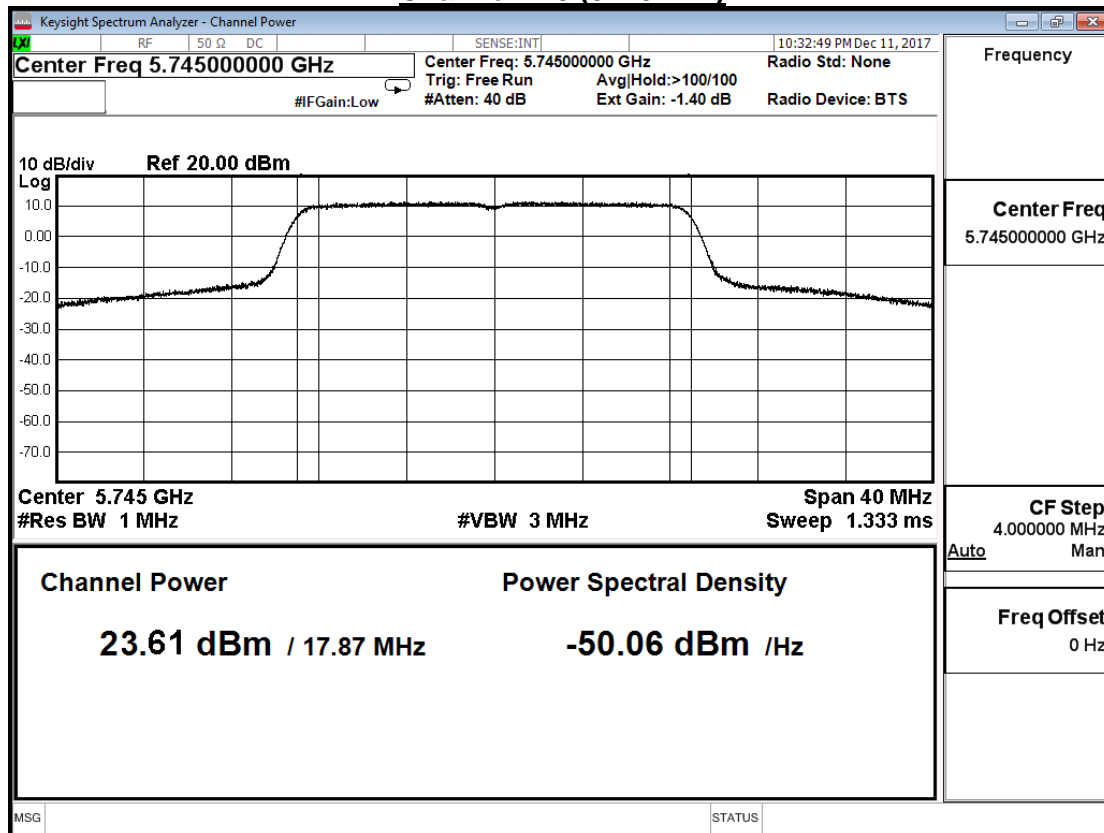
Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 1)

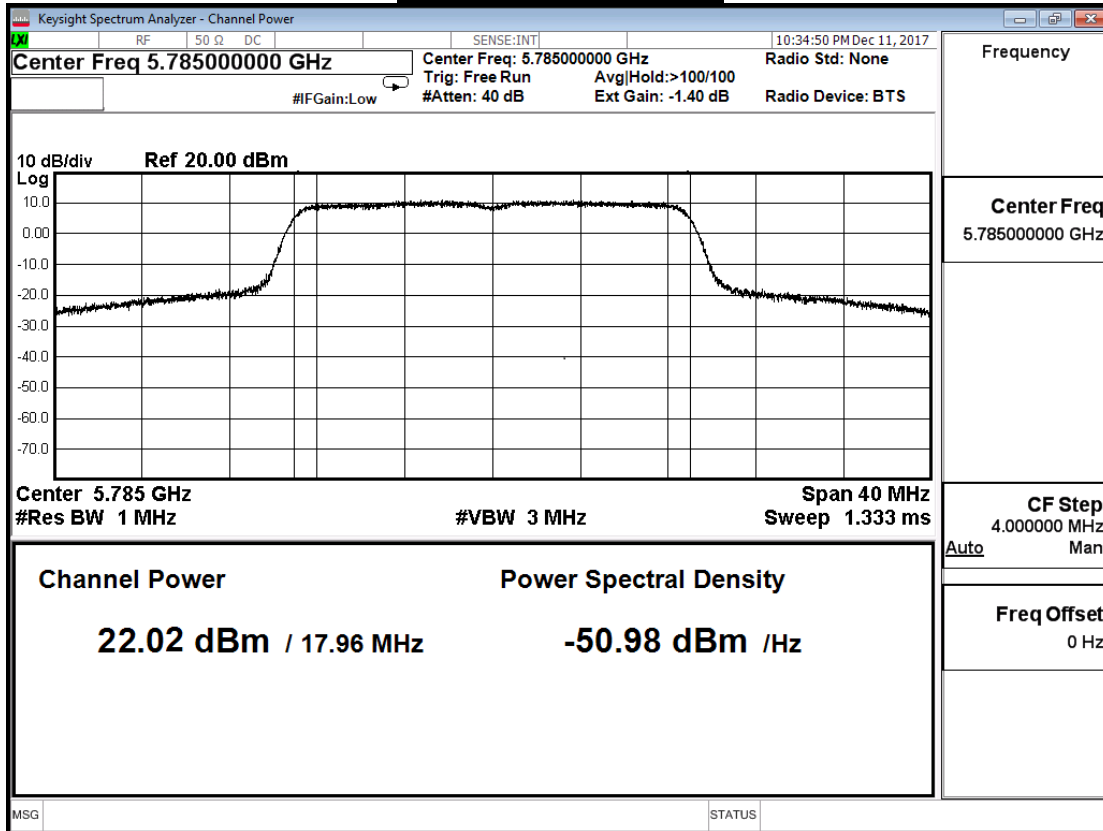
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.61	≤ 29.49
157	5785	22.02	≤ 29.49
165	5825	23.79	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

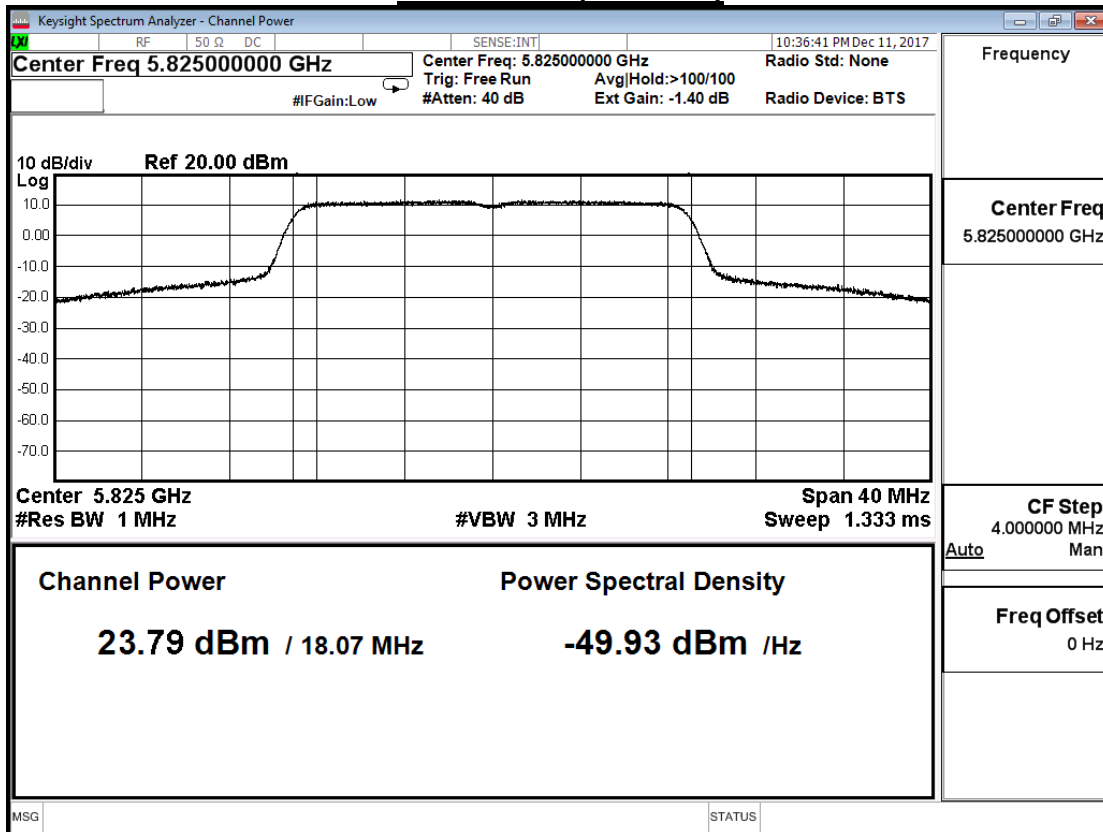
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	26.079	≤ 29.49
157	5785	25.065	≤ 29.49
165	5825	26.387	≤ 29.49

Note: Array Gain: Antenna gain $+10 \log(N) = 3.5 + 3.01 = 6.51 \text{dBi}$

Limit = $30 - (6.51 - 6) = 29.49 \text{ dBm}$

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

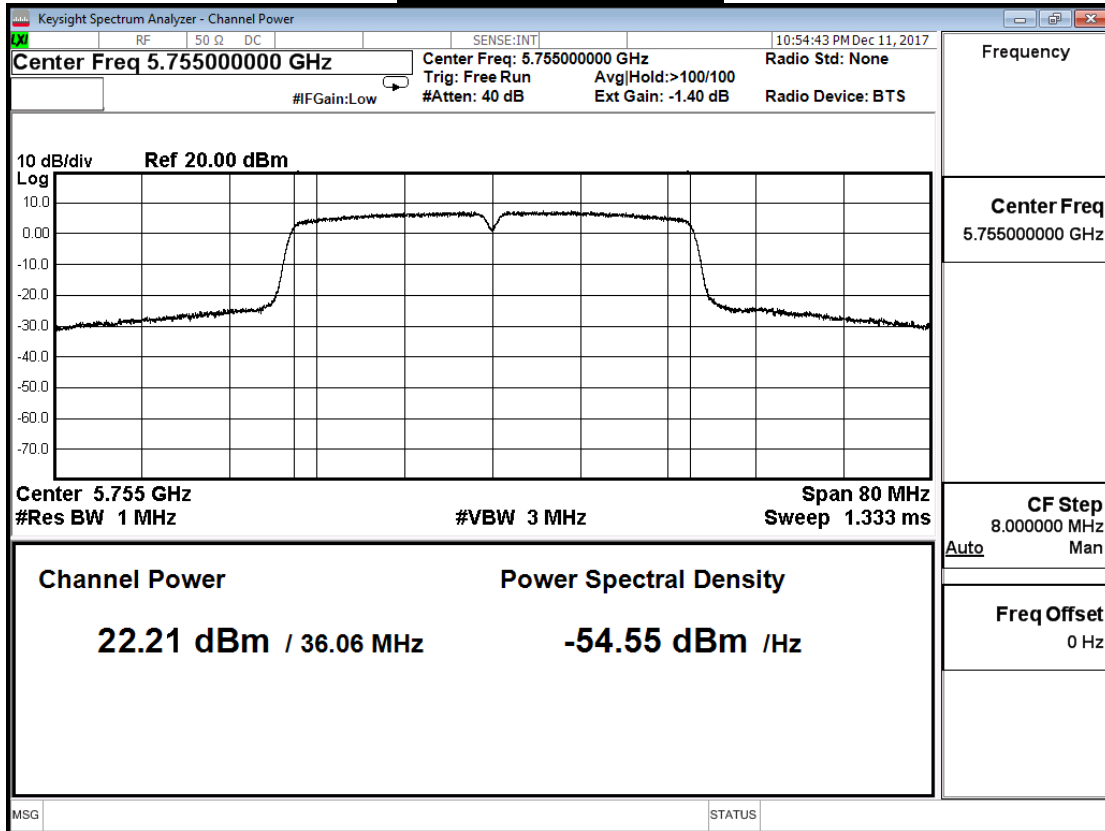
IEEE 802.11n(40MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	22.21	≤ 29.49
159	5795	23.22	≤ 29.49

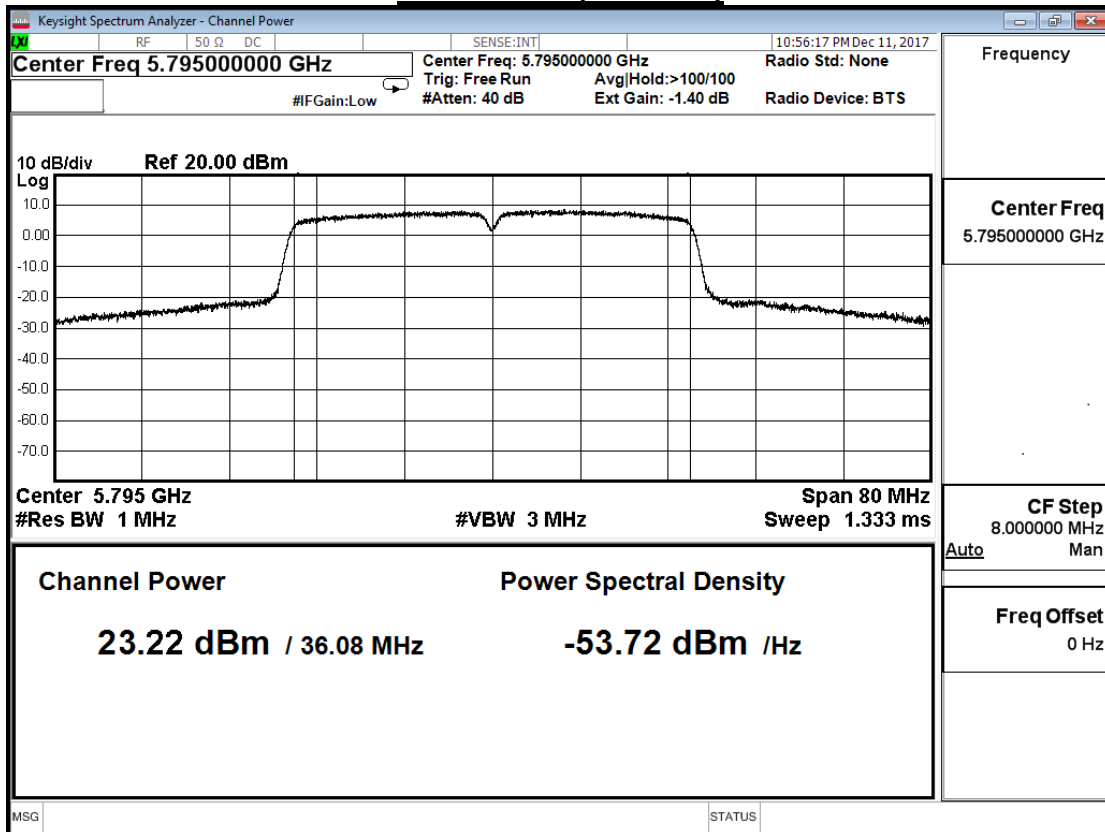
Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi

Limit = 30-(6.51-6) = 29.49 dBm

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

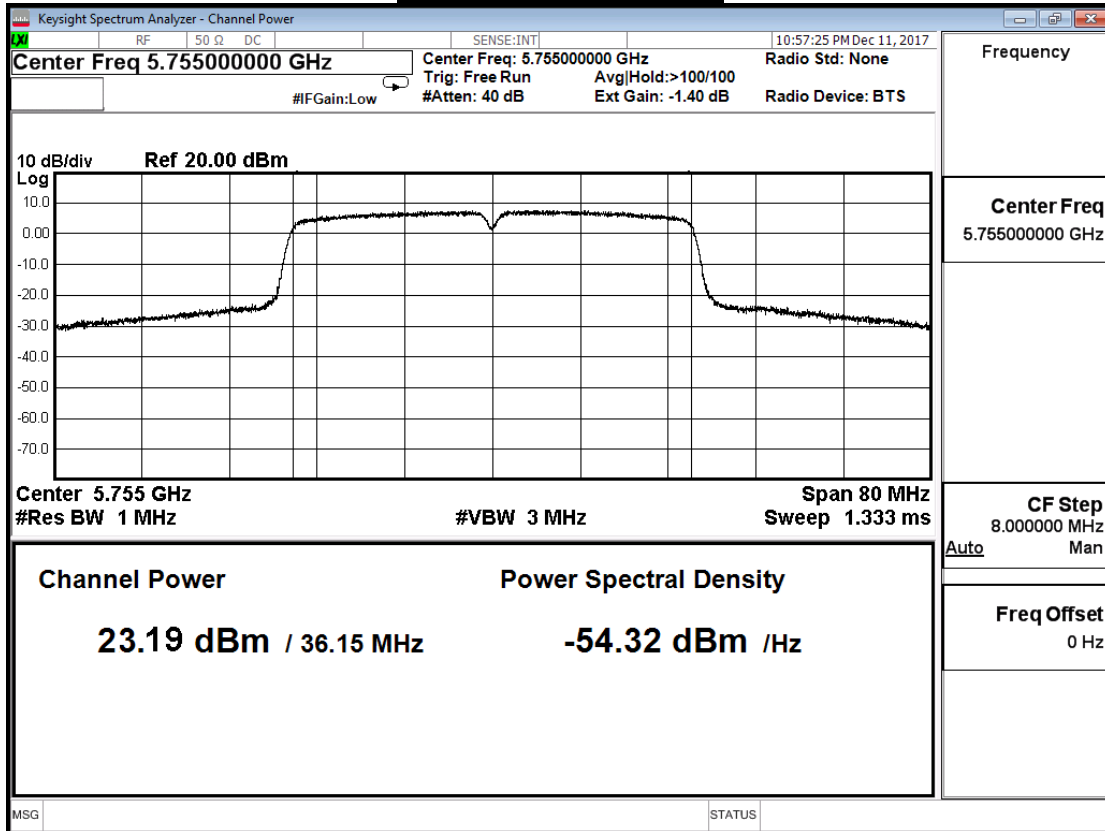
IEEE 802.11n(40MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.19	≤ 29.49
159	5795	23.33	≤ 29.49

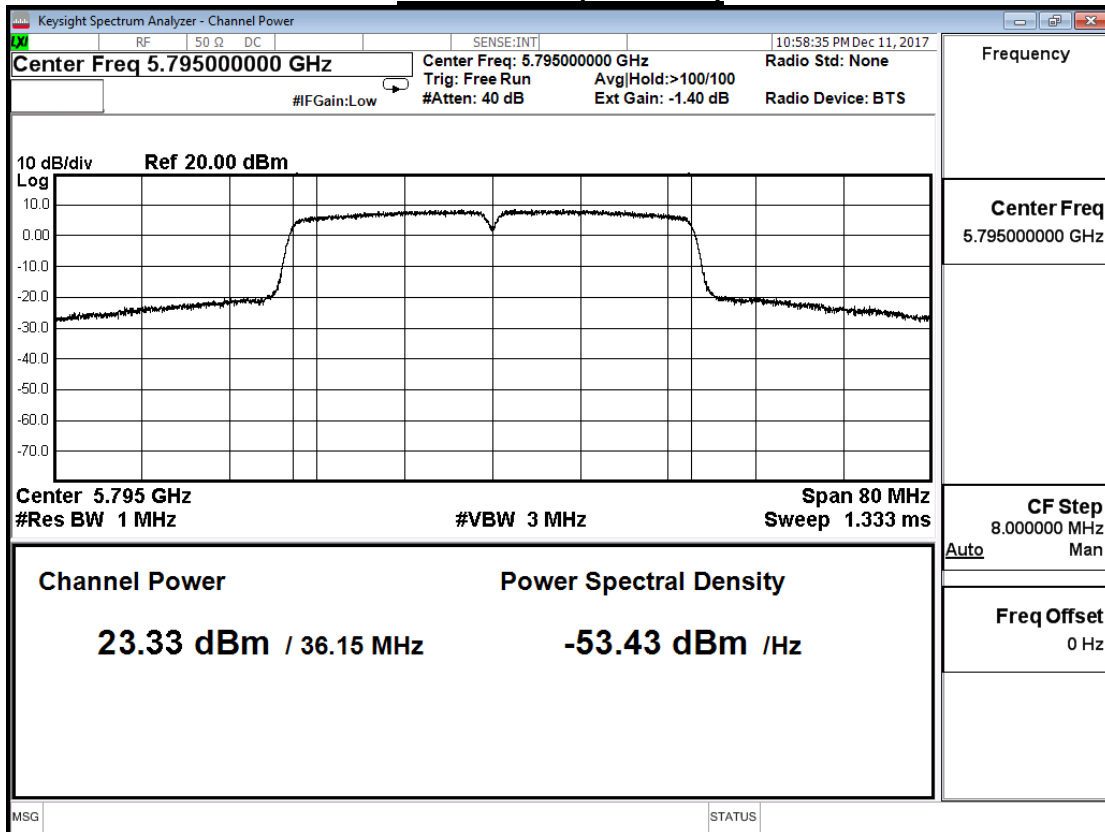
Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi

Limit = 30-(6.51-6) = 29.49 dBm

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/10/31	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	25.738	≤ 29.49
159	5795	26.286	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) =3.5+3.01 = 6.51dBi

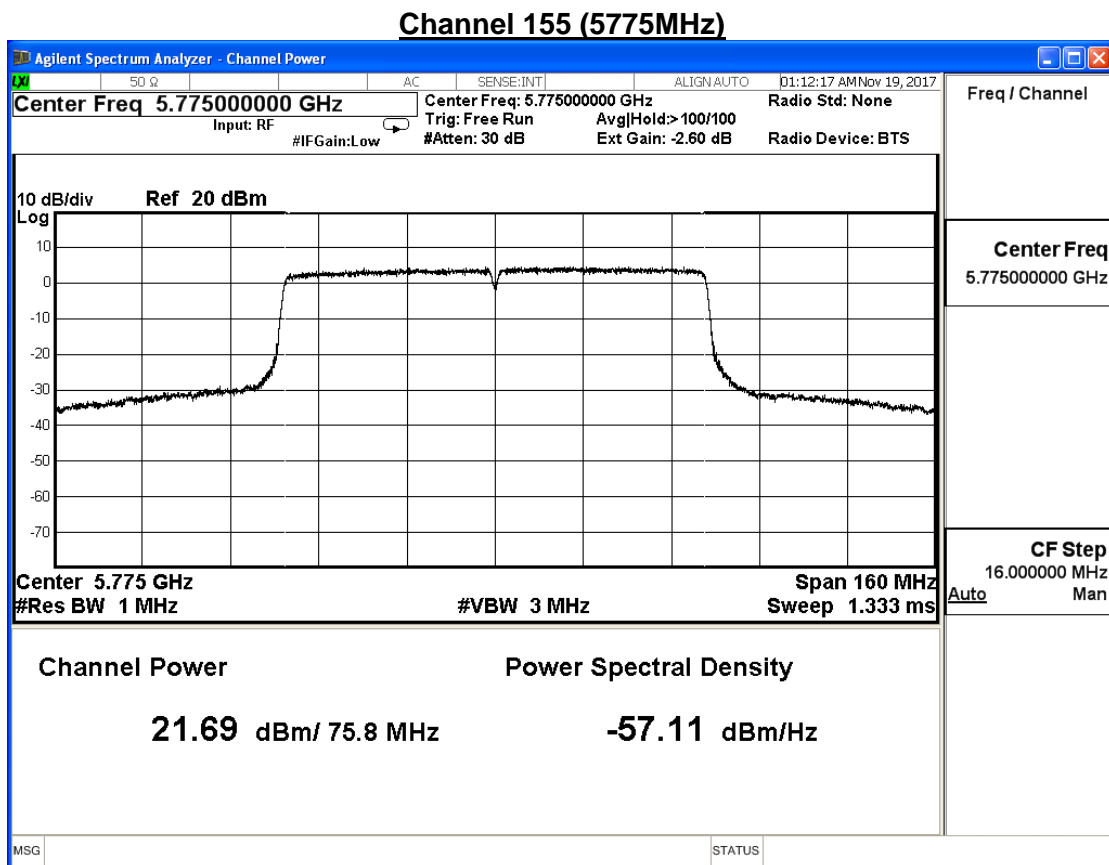
Limit = 30-(6.51-6) = 29.49 dBm

Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	21.69	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm

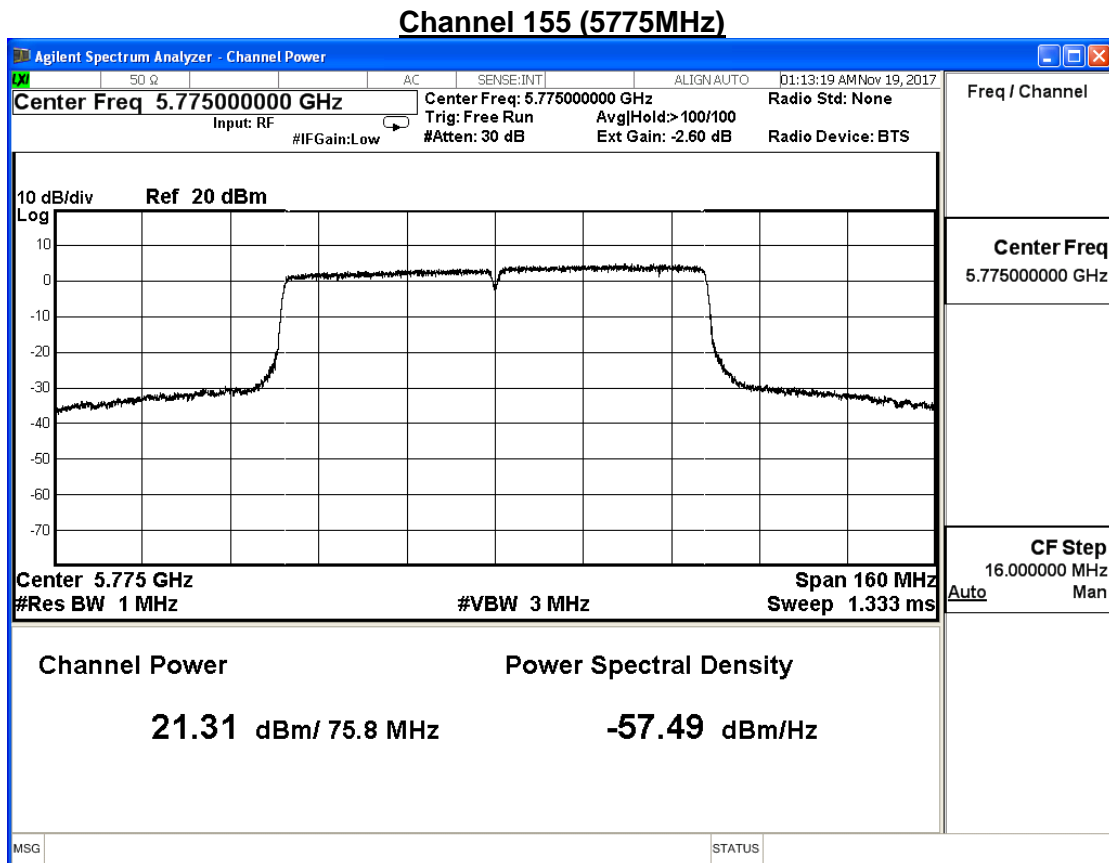


Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	21.31	≤ 29.49

Note: Array Gain: Antenna gain +10 log(N) = 3.5+3.01 = 6.51dBi
 Limit = 30-(6.51-6) = 29.49 dBm



Product	Verizon Mesh Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Transmit_BF Mode		
Date of Test	2017/11/19	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	24.514	≤ 29.49

Note: Array Gain: Antenna gain $+10 \log(N) = 3.5 + 3.01 = 6.51 \text{dBi}$

Limit = $30 - (6.51 - 6) = 29.49 \text{ dBm}$