

FCC Test Report

Product Name : Wireless-AC2600 Dual WAN VPN Wireless Router
Trade Name : ASUS
Model No. : BRT-AC828/M2
FCC ID. : MSQ-RT0V00

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : Feb. 17, 2016

Issued Date : Apr. 08, 2016

Report No. : 1620268R-RFUSP56V00-A

Report Version : V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date: Apr. 08, 2016

Report No. : 1620268R-RFUSP56V00-A



Product Name : Wireless-AC2600 Dual WAN VPN Wireless Router
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
Model No. : BRT-AC828/M2
FCC ID. : MSQ-RT0V00
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: 2014
ANSI C63.10: 2013
Test Lab : QuieTek Hsin Chu Laboratory
Test Result : Complied

The test results relate only to the samples tested.

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Documented By :

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(Carol Tsai / Senior Engineering Adm. Specialist)

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(Bruno Tsai / Engineer)

Approved By :

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(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
15B0233R-RFUSP28V00	V1.0	Initial issue of report	Nov. 23, 2015
1620125R-RFUSP37V00	V1.0	Change components part of the EUT, modify the emission (under the 1GHz) and internal photo.	Feb. 17, 2016
1620268R-RFUSP56V00-A	V1.0	Update WLAN 5G band 4 standard to FCC 15.407. The 2.4G test data, please refer to the 1620125R-RFUSP37V00.	Apr. 08, 2016

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	: TAF, Accreditation Number: 3024
USA	: FCC, Registration Number: 365520
Canada	: IC, Submission No: 181665 / IC Registration Number: 4075C-4

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/english/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/index_en.aspx

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1. General Information

1.1. EUT Description

Product Name	Wireless-AC2600 Dual WAN VPN Wireless Router	
Trade Name	ASUS	
Model No.	BRT-AC828/M2	
Product Type	WLAN (4TX, 4RX)	
Frequency Range/ Channel Number	IEEE 802.11a	5745~5825MHz / 5 Channels
	IEEE 802.11n (20MHz)	
	IEEE 802.11ac (20MHz)	
	IEEE 802.11n (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (40MHz)	
	IEEE 802.11ac (80MHz)	5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing
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 7 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

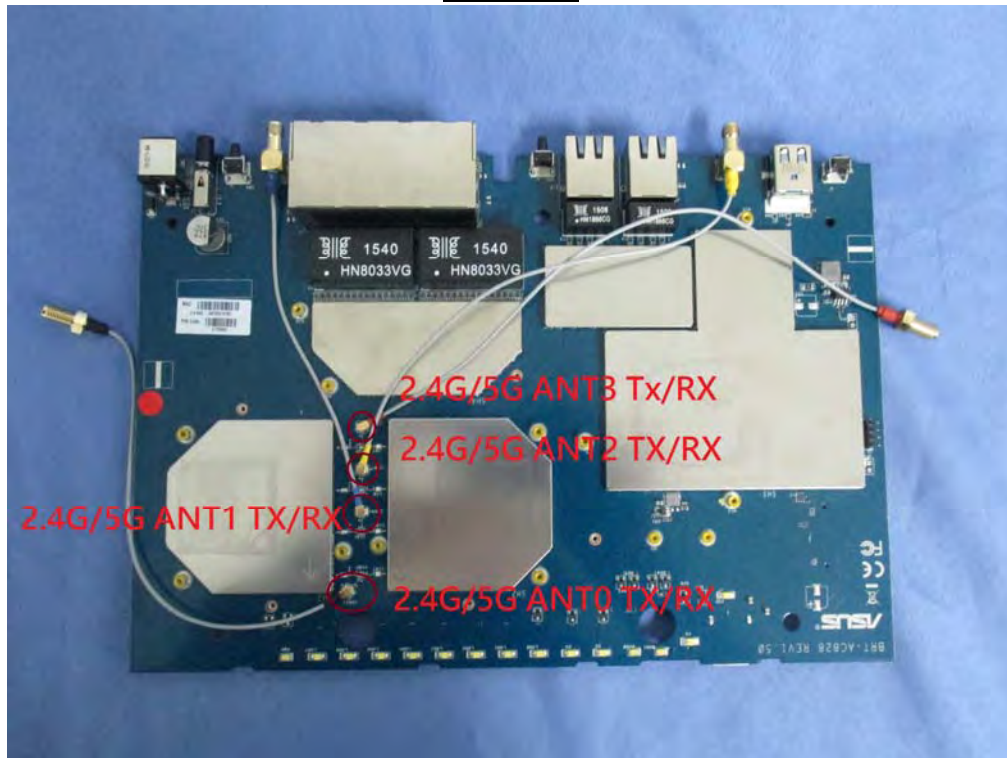
Antenna Information		
Antenna Type	Dipole	
Antenna Gain	MFR. / Model	Antenna Gain
	ASC / RFDPA171300SBLB814_V01 (Red)	3.19dBi
	ASC / RFDPA151300SBLB803_V01 (Gold)	3.16dBi

Accessories Information	
Antenna	3 PCS
LAN Cable	Shielded, 1.5m
Power Adatper 1	ASUS., ADP-45BW B I/P: 100-240V~ 50-60Hz 1.2A O/P : 19V ===2.37A Cable Out: Non-Shielded, 2.2m
Power Adatper 2	ASUS., ADP-65DW B I/P: 100-240V~ 50-60Hz 1.5A O/P : 19V ===3.42A Cable Out: Non-Shielded, 2.2m
Power Adatper 3	ASUS., AD883J20 I/P: 100-240V~ 50/60Hz 1.0A O/P : 19V ===2.37A Cable Out: Non-Shielded, 2.0m
Power Adatper 4	ASUS., AD887320 I/P: 100-240V~ 50/60Hz 1.5A O/P : 19V ===3.42A Cable Out: Non-Shielded, 2.0m

ANT-TX / RX & Bandwidth

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

4TX / 4RX



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

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
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0

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

Table 3 – MCS parameters for TX Antenna number = 3

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
24	BPSK	1/2	1	208	432	104	216	26.00	54.00	28.80	60.00
25	QPSK	1/2	2	416	864	208	432	52.00	108.00	57.60	120.00
26	QPSK	3/4	2	416	864	312	648	78.00	162.00	86.80	180.00
27	16-QAM	1/2	4	832	1728	416	864	104.00	216.00	115.60	240.00
28	16-QAM	3/4	4	832	1728	624	1296	156.00	324.00	172.20	360.00
29	64-QAM	2/3	6	1248	2592	832	1728	208.00	432.00	231.20	480.00
30	64-QAM	3/4	6	1248	2592	936	1944	234.00	486.00	260.00	540.00
31	64-QAM	5/6	6	1248	2592	1040	2040	260.00	540.00	288.80	600.00

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

Table 4 – MCS parameters for TX Antenna number = 4

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		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4
3	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4

4	0	BPSK	1/2	26.0	28.9	54.0	60.0	117.0	130.0	234.0	260.0
	1	QPSK	1/2	52.0	57.8	108.0	120.0	234.0	260.0	468.0	520.0
	2	QPSK	3/4	78.0	86.7	162.0	180.0	351.0	390.0	702.0	780.0
	3	16-QAM	1/2	104.0	115.6	216.0	240.0	468.0	520.0	936.0	1040.0
	4	16-QAM	3/4	156.0	173.3	342.0	360.0	702.0	780.0	1404.0	1560.0
	5	64-QAM	2/3	208.0	231.1	432.0	480.0	936.0	1040.0	1872.0	2080.0
	6	64-QAM	3/4	234.0	260.0	486.0	540.0	1053.0	1170.0	2106.0	2340.0
	7	64-QAM	5/6	260.0	288.9	540.0	600.0	1170.0	1300.0	N/A	N/A
	8	256-QAM	3/4	312.0	346.7	648.0	720.0	1404.0	1560.0	2808.0	3120.0
	9	256-QAM	5/6	N/A	N/A	720.0	800.0	1560.0	1733.3	3120.0	3466.7

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

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
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
151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Wireless-AC2600 Dual WAN VPN Wireless Router including 2.4GHz b/g/n (4x4) and 5GHz a/n/ac (4x4) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
3. 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.
4. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 1620268R-RFUSP56V00.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1620125R-RFUSP01V00.
6. This test item: undesirable emission limits accordance with Part 15.407(b)(4)(ii).

1.2. Test Mode

QuieTek 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_Adapter 1 Mode 2: Transmit_Beamforming Mode_Adapter 1 Mode 3: Transmit_Adapter 2 Mode 4: Transmit_Adapter 3 Mode 5: Transmit_Adapter 4
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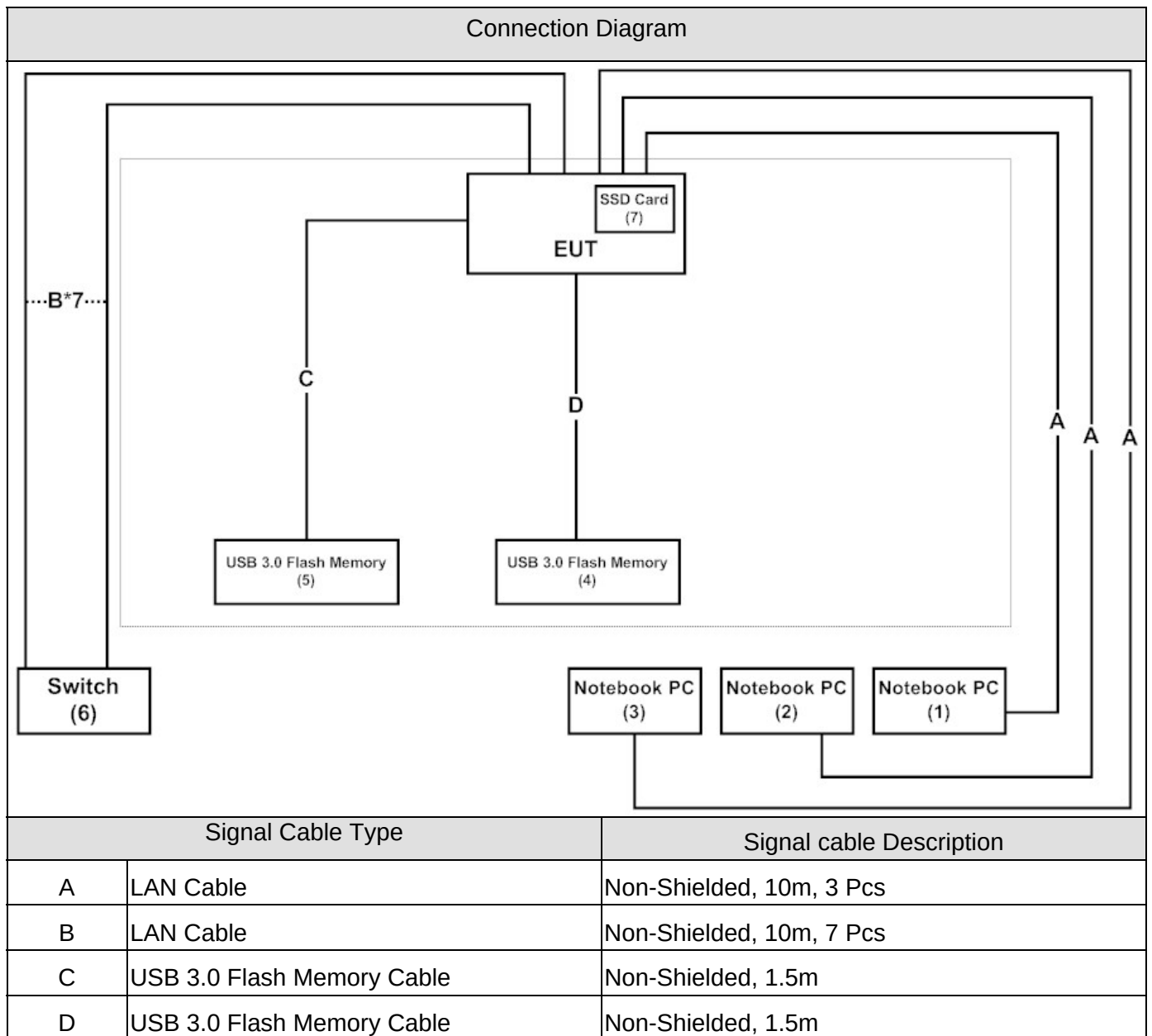
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac(80MHz)	155	0+1+2+3	Complies
99 % & 26dB Bandwidth	11a	149/ 157/ 165	0/1/2/3	Complies
	11n(20MHz)	149/ 157/ 165	0/1/2/3	Complies
	11n(40MHz)	151/ 159	0/1/2/3	Complies
	11ac(80MHz)	155	0/1/2/3	Complies
Peak Transmit Output	11a	149/157/165	0+1+2+3	Complies
	11n(20MHz)	149/157/165	0+1+2+3	Complies
	11n(40MHz)	151/159	0+1+2+3	Complies
	11ac(80MHz)	155	0+1+2+3	Complies
Peak Power Spectrum Density	11a	149/ 157/ 165	0+1+2+3	Complies
	11n(20MHz)	149/ 157/ 165	0+1+2+3	Complies
	11n(40MHz)	151/ 159	0+1+2+3	Complies
	11ac(80MHz)	155	0+1+2+3	Complies
Radiated Emission	11a	149/ 157/ 165	0+1+2+3	Complies
	11n(20MHz)	149/ 157/ 165	0+1+2+3	Complies
	11n(40MHz)	151/ 159	0+1+2+3	Complies
	11ac(80MHz)	155	0+1+2+3	Complies
Band Edge	11a	149/157/165	0+1+2+3	Complies
	11n(20MHz)	149/157/165	0+1+2+3	Complies
	11n(40MHz)	151/159	0+1+2+3	Complies
	11ac(80MHz)	155	0+1+2+3	Complies
RF antenna conducted test	11a	149/ 157/ 165	0+1+2+3	Complies
	11n(20MHz)	149/ 157/ 165	0+1+2+3	Complies
	11n(40MHz)	151/ 159	0+1+2+3	Complies
	11ac(80MHz)	155	0+1+2+3	Complies
Frequency Stability	11a	149/ 157/ 165	0/1/2/3	Complies
	11n(20MHz)	149/ 157/ 165	0/1/2/3	Complies
	11n(40MHz)	151/ 159	0/1/2/3	Complies
	11ac(80MHz)	155	0/1/2/3	Complies

1.3. Tested System Details

The types for all equipments, 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	Lenovo	B590	WB1529782	DoC	Non-Shielded, 1.8m, one ferrite core bonded
2	Notebook PC	ASUS	K45VD	K45VD-0343G3110M	DoC	Non-Shielded, 1.8m
3	Notebook PC	ACER	MS2296	LUSCV021391150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
4	USB 3.0 Flash Memory	Verbatim	16GB	N/A	DoC	--
5	USB 3.0 Flash Memory	Verbatim	16GB	N/A	DoC	--
6	Switch	D-Link	DGS1216T	F360298000042	DoC	--
7	SSD Card	Transcend	TS512GM TS800	C18573-0461	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the telnet command on the EUT.
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
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20°C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99 % & 26dB Bandwidth	15 - 35	25°C
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
Humidity (%RH)		25 - 75	65%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum	15 - 35	25°C
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
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
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 RF antenna conducted test	15 - 35	25°C
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
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

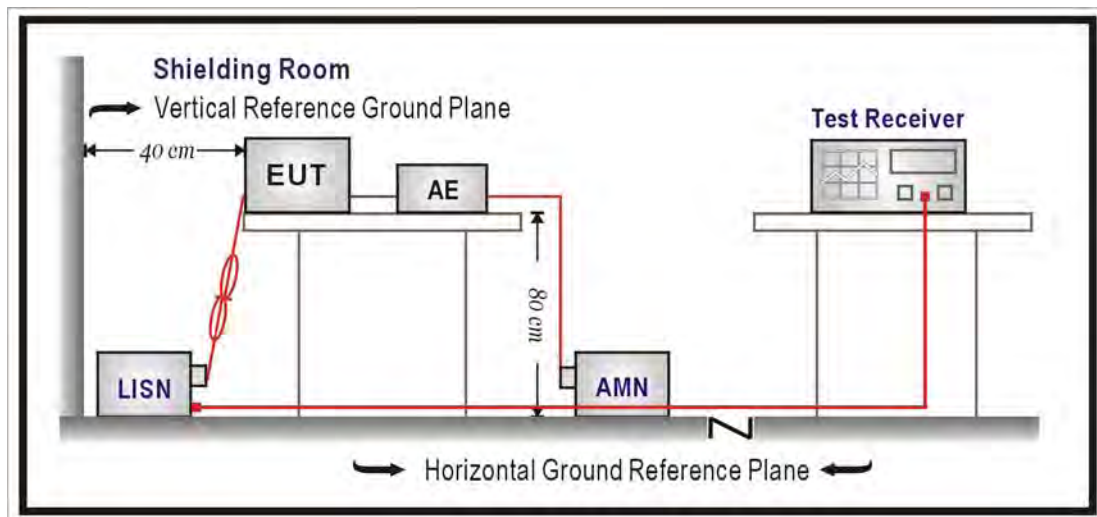
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2016/01/25
LISN	R&S	ENV216	100092	2016/08/17
Test Receiver	R&S	ESCS 30	825442/014	2016/07/16

Note: All equipments that need to calibrate are with calibration period of 1 year.

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

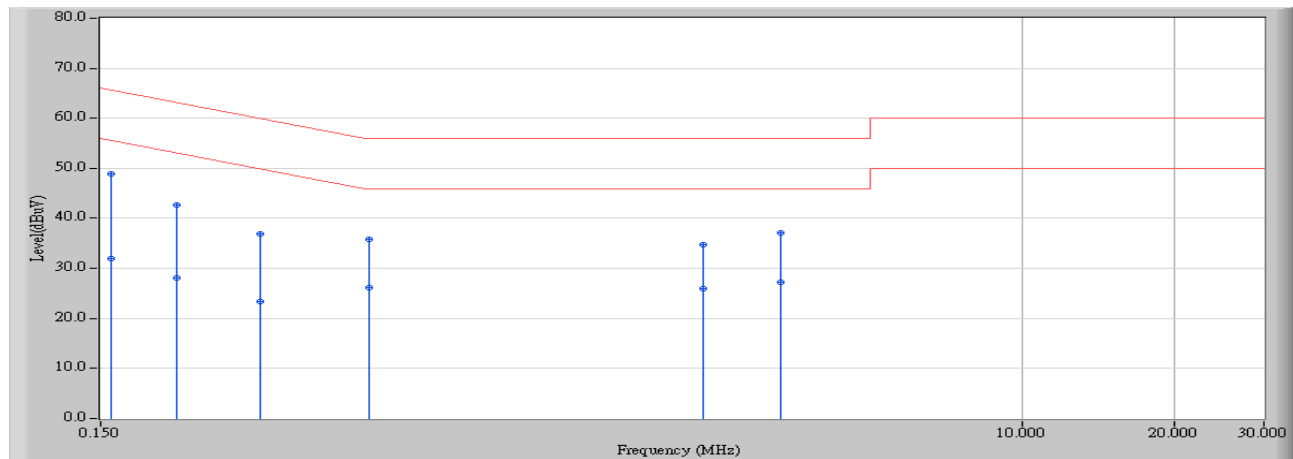
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/11/17 - 19:29
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5775MHz

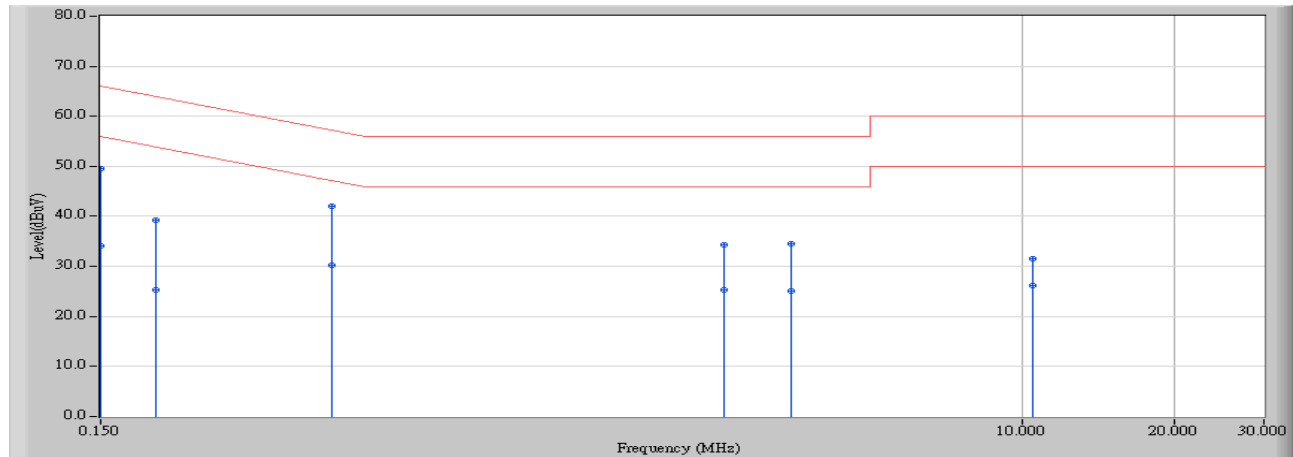


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.690	39.120	48.810	-16.768	65.578	QUASIPeAK
2		0.158	9.690	22.240	31.930	-23.648	55.578	AVERAGE
3		0.212	9.689	33.000	42.689	-20.418	63.107	QUASIPeAK
4		0.212	9.689	18.360	28.049	-25.058	53.107	AVERAGE
5		0.310	9.698	27.170	36.867	-23.099	59.966	QUASIPeAK
6		0.310	9.698	13.660	23.357	-26.609	49.966	AVERAGE
7		0.509	9.719	26.060	35.779	-20.221	56.000	QUASIPeAK
8		0.509	9.719	16.500	26.219	-19.781	46.000	AVERAGE
9		2.334	9.794	25.040	34.834	-21.166	56.000	QUASIPeAK
10		2.334	9.794	16.170	25.964	-20.036	46.000	AVERAGE
11		3.330	9.837	27.280	37.118	-18.882	56.000	QUASIPeAK
12		3.330	9.837	17.310	27.148	-18.852	46.000	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	Time : 2015/11/17 - 19:32
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5775MHz

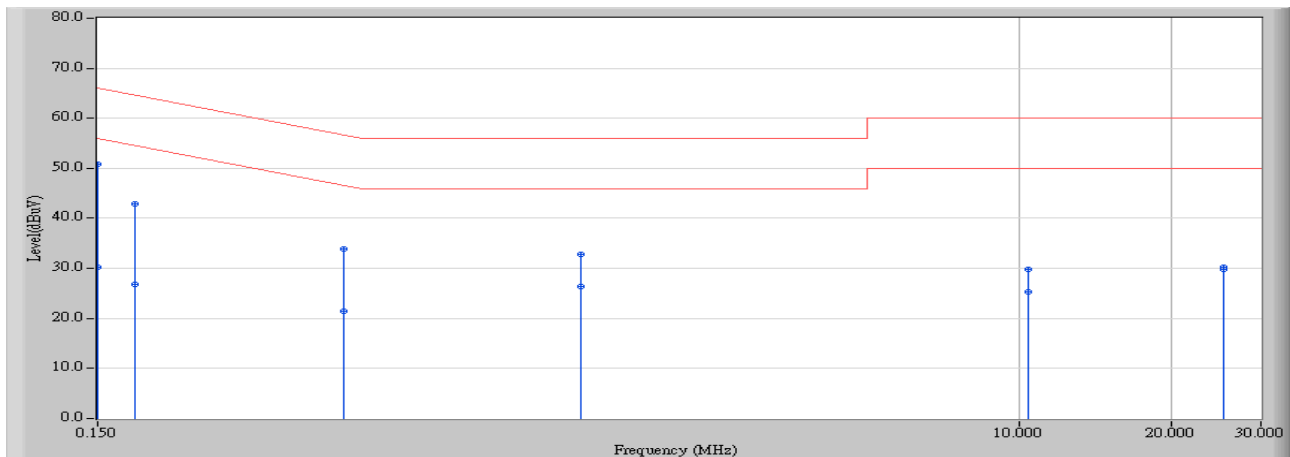


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.762	39.790	49.552	-16.448	66.000	QUASIPeAK
2		0.150	9.762	24.410	34.172	-21.828	56.000	AVERAGE
3		0.193	9.766	29.440	39.206	-24.702	63.908	QUASIPeAK
4		0.193	9.766	15.570	25.336	-28.572	53.908	AVERAGE
5	*	0.431	9.791	32.250	42.041	-15.188	57.229	QUASIPeAK
6		0.431	9.791	20.500	30.291	-16.938	47.229	AVERAGE
7		2.572	9.892	24.470	34.362	-21.638	56.000	QUASIPeAK
8		2.572	9.892	15.500	25.392	-20.608	46.000	AVERAGE
9		3.478	9.926	24.580	34.507	-21.493	56.000	QUASIPeAK
10		3.478	9.926	15.240	25.167	-20.833	46.000	AVERAGE
11		10.478	10.143	21.350	31.492	-28.508	60.000	QUASIPeAK
12		10.478	10.143	16.110	26.252	-23.748	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	Time : 2015/11/17 - 14:04
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5775MHz

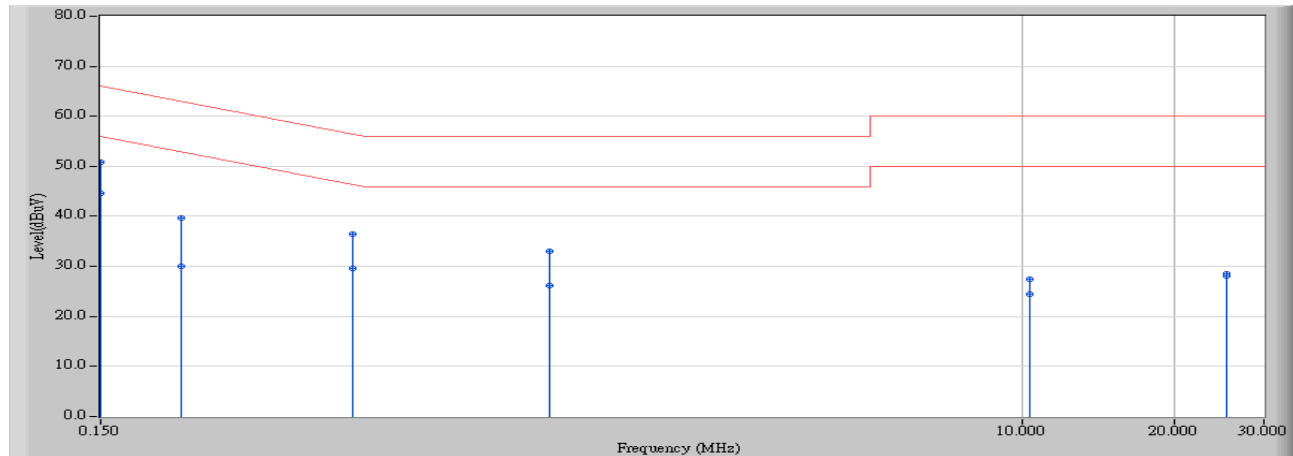


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.692	41.110	50.802	-15.198	66.000	QUASIPeAK
2		0.150	9.692	20.530	30.222	-25.778	56.000	AVERAGE
3		0.177	9.689	33.220	42.909	-21.701	64.609	QUASIPeAK
4		0.177	9.689	17.110	26.799	-27.811	54.609	AVERAGE
5		0.459	9.714	24.080	33.794	-22.924	56.718	QUASIPeAK
6		0.459	9.714	11.760	21.474	-25.244	46.718	AVERAGE
7		1.357	9.742	23.110	32.851	-23.149	56.000	QUASIPeAK
8		1.357	9.742	16.720	26.461	-19.539	46.000	AVERAGE
9		10.388	10.118	19.730	29.848	-30.152	60.000	QUASIPeAK
10		10.388	10.118	15.120	25.238	-24.762	50.000	AVERAGE
11		25.232	10.470	19.820	30.289	-29.711	60.000	QUASIPeAK
12		25.232	10.470	19.300	29.769	-20.231	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	Time : 2015/11/17 - 14:09
Limit : CISPR B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5775MHz

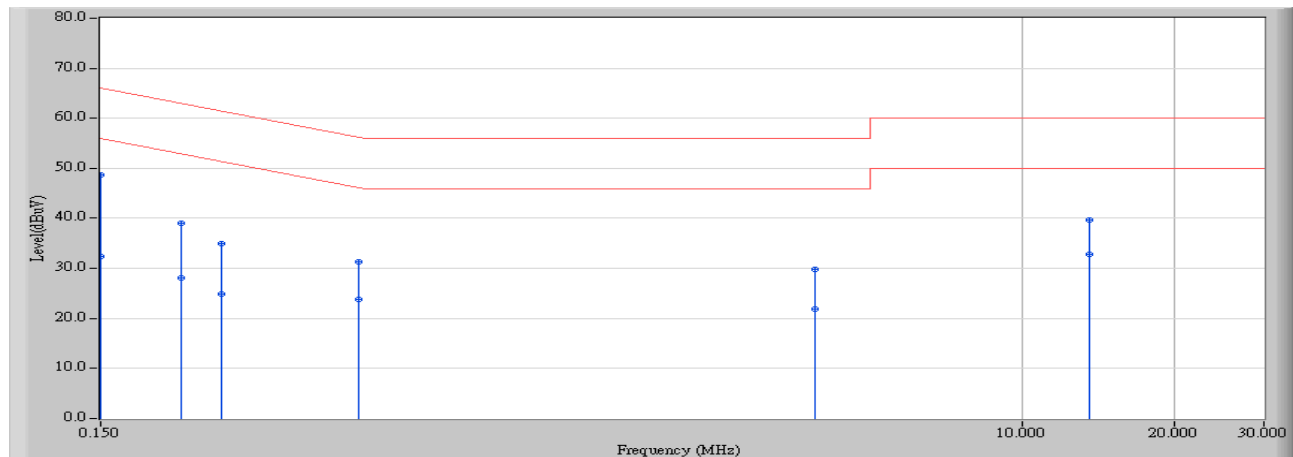


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.762	41.070	50.832	-15.168	66.000	QUASIPeAK
2	*	0.150	9.762	34.900	44.662	-11.338	56.000	AVERAGE
3		0.216	9.768	29.980	39.749	-23.207	62.956	QUASIPeAK
4		0.216	9.768	20.280	30.049	-22.907	52.956	AVERAGE
5		0.474	9.797	26.770	36.567	-19.872	56.440	QUASIPeAK
6		0.474	9.797	19.720	29.517	-16.922	46.440	AVERAGE
7		1.158	9.820	23.230	33.049	-22.951	56.000	QUASIPeAK
8		1.158	9.820	16.370	26.189	-19.811	46.000	AVERAGE
9		10.330	10.142	17.390	27.532	-32.468	60.000	QUASIPeAK
10		10.330	10.142	14.340	24.482	-25.518	50.000	AVERAGE
11		25.232	10.256	18.200	28.456	-31.544	60.000	QUASIPeAK
12		25.232	10.256	17.880	28.136	-21.864	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	Time : 2015/11/19 - 10:38
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5775MHz

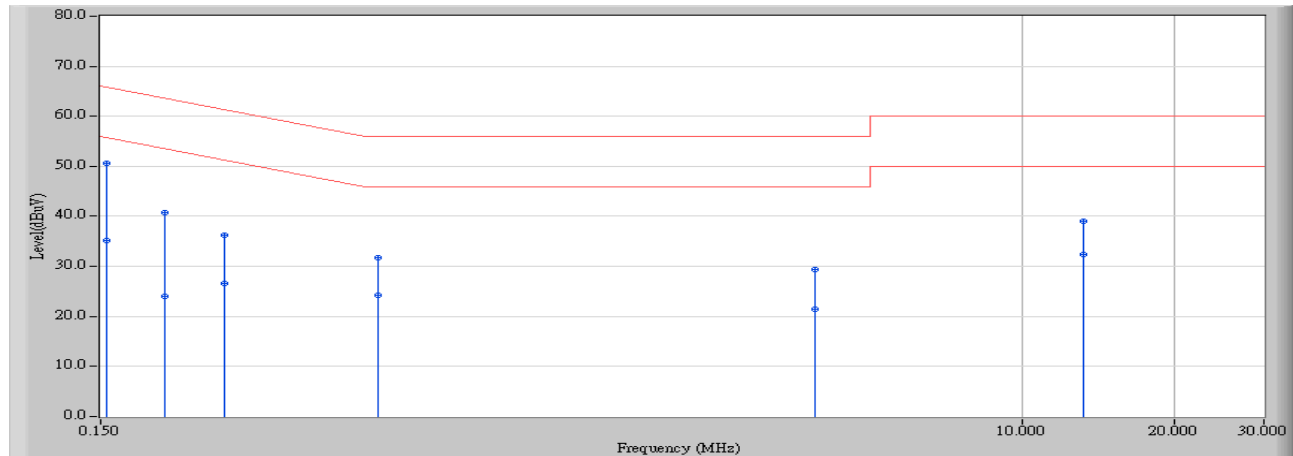


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.692	39.020	48.712	-17.288	66.000	QUASIPeAK
2		0.150	9.692	22.770	32.462	-23.538	56.000	AVERAGE
3		0.216	9.688	29.420	39.109	-23.847	62.956	QUASIPeAK
4		0.216	9.688	18.450	28.139	-24.817	52.956	AVERAGE
5		0.259	9.692	25.170	34.863	-26.589	61.451	QUASIPeAK
6		0.259	9.692	15.180	24.873	-26.579	51.451	AVERAGE
7		0.486	9.718	21.610	31.328	-24.909	56.237	QUASIPeAK
8		0.486	9.718	14.020	23.738	-22.499	46.237	AVERAGE
9		3.873	9.861	19.970	29.831	-26.169	56.000	QUASIPeAK
10		3.873	9.861	12.060	21.921	-24.079	46.000	AVERAGE
11		13.548	10.184	29.390	39.575	-20.425	60.000	QUASIPeAK
12	*	13.548	10.184	22.660	32.845	-17.155	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	Time : 2015/11/19 - 10:34
Limit : CISPR B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5775MHz

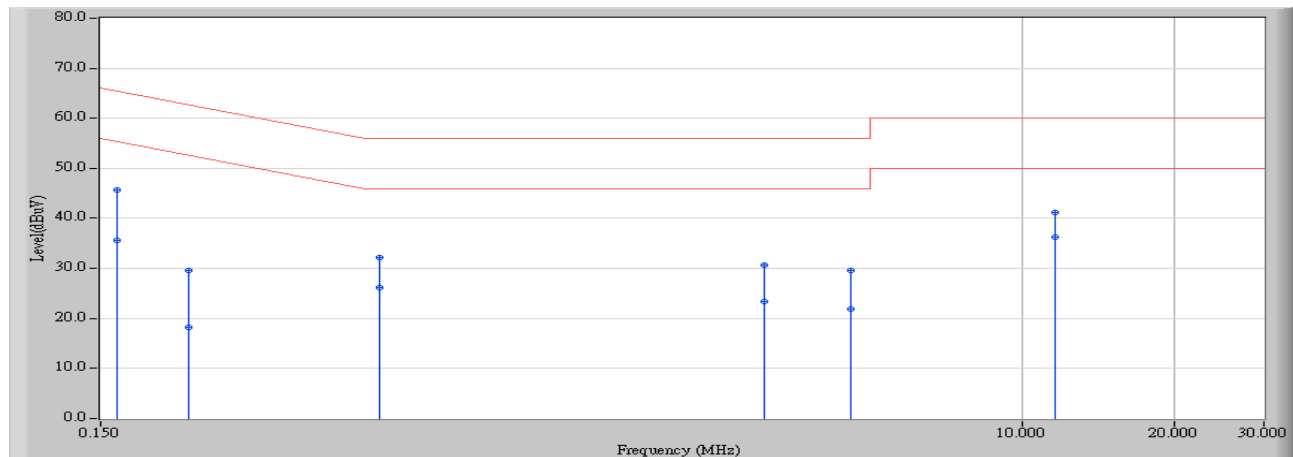


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.762	40.790	50.552	-15.234	65.785	QUASIPeAK
2		0.154	9.762	25.330	35.092	-20.694	55.785	AVERAGE
3		0.201	9.767	30.880	40.647	-22.931	63.578	QUASIPeAK
4		0.201	9.767	14.320	24.087	-29.491	53.578	AVERAGE
5		0.263	9.773	26.580	36.353	-24.974	61.327	QUASIPeAK
6		0.263	9.773	16.720	26.493	-24.834	51.327	AVERAGE
7		0.529	9.802	21.950	31.752	-24.248	56.000	QUASIPeAK
8		0.529	9.802	14.370	24.172	-21.828	46.000	AVERAGE
9		3.892	9.942	19.380	29.322	-26.678	56.000	QUASIPeAK
10		3.892	9.942	11.540	21.482	-24.518	46.000	AVERAGE
11		13.181	10.155	28.890	39.046	-20.954	60.000	QUASIPeAK
12		13.181	10.155	22.150	32.306	-17.694	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	Time : 2015/11/17 - 15:10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5775MHz

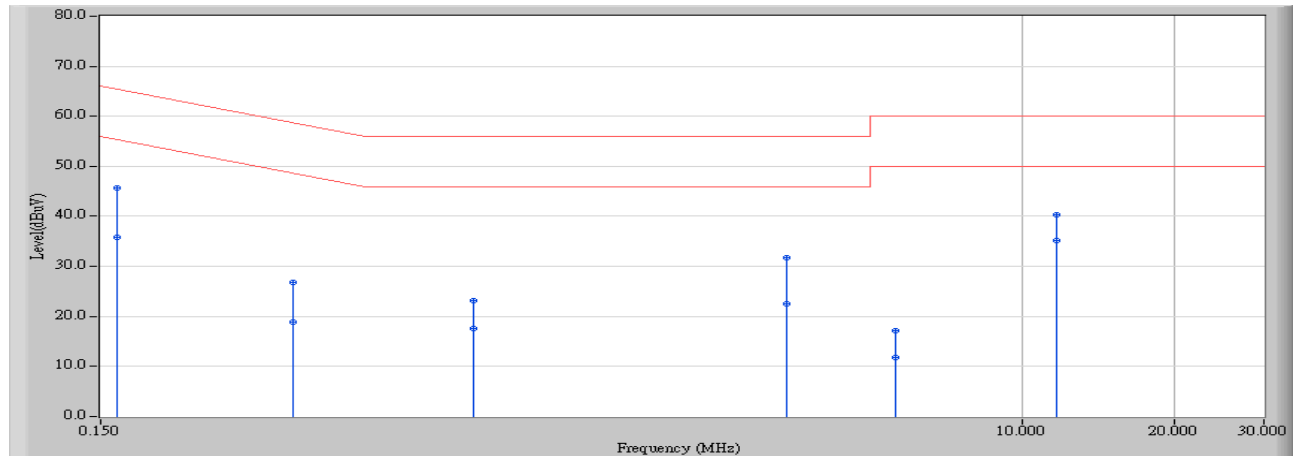


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.690	35.900	45.589	-19.785	65.375	QUASPEAK
2		0.162	9.690	25.980	35.669	-19.705	55.375	AVERAGE
3		0.224	9.689	19.900	29.589	-33.071	62.660	QUASPEAK
4		0.224	9.689	8.520	18.209	-34.451	52.660	AVERAGE
5		0.533	9.720	22.470	32.190	-23.810	56.000	QUASPEAK
6		0.533	9.720	16.550	26.270	-19.730	46.000	AVERAGE
7		3.091	9.827	20.920	30.747	-25.253	56.000	QUASPEAK
8		3.091	9.827	13.570	23.397	-22.603	46.000	AVERAGE
9		4.584	9.894	19.670	29.564	-26.436	56.000	QUASPEAK
10		4.584	9.894	11.960	21.854	-24.146	46.000	AVERAGE
11		11.611	10.144	30.940	41.084	-18.916	60.000	QUASPEAK
12	*	11.611	10.144	26.170	36.314	-13.686	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	Time : 2015/11/17 - 15:13
Limit : CISPR B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5775MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.762	36.000	45.762	-19.611	65.373	QUASIPeAK
2		0.162	9.762	25.980	35.742	-19.631	55.373	AVERAGE
3		0.361	9.782	17.020	26.802	-31.904	58.706	QUASIPeAK
4		0.361	9.782	9.100	18.882	-29.824	48.706	AVERAGE
5		0.818	9.807	13.290	23.097	-32.903	56.000	QUASIPeAK
6		0.818	9.807	7.780	17.587	-28.413	46.000	AVERAGE
7		3.412	9.924	21.720	31.644	-24.356	56.000	QUASIPeAK
8		3.412	9.924	12.560	22.484	-23.516	46.000	AVERAGE
9		5.588	10.003	7.250	17.253	-42.747	60.000	QUASIPeAK
10		5.588	10.003	1.730	11.733	-38.267	50.000	AVERAGE
11		11.693	10.149	30.080	40.228	-19.772	60.000	QUASIPeAK
12	*	11.693	10.149	25.080	35.228	-14.772	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% & 26dB & 6dB Bandwidth

3.1. Test Equipment

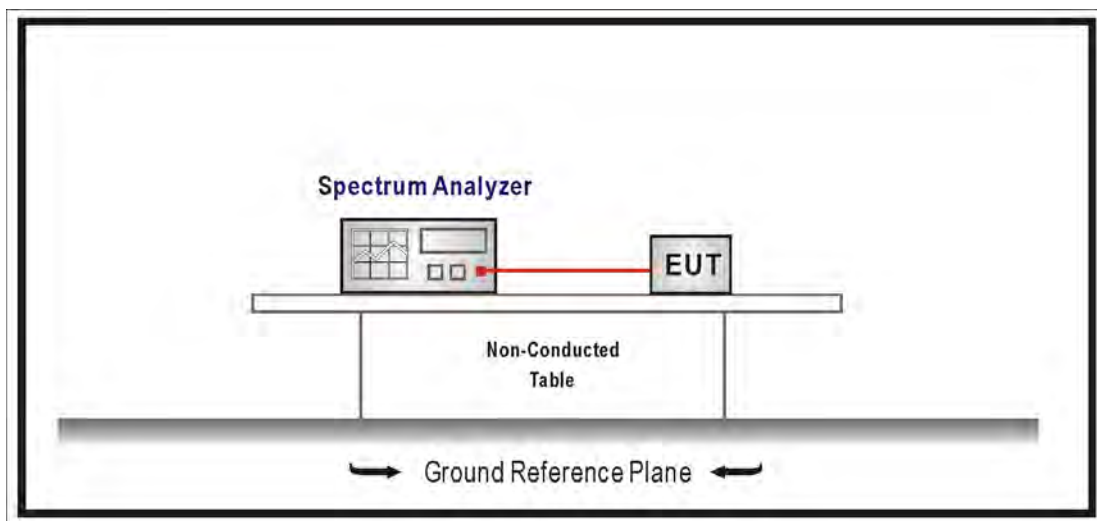
The following test equipments are used during the radiated emission tests:

99% & 26dB & 6dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

Note: All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

99% & 26dB Bandwidth : No Required

6dB Bandwidth $\geq$ 500KHz

3.4. Test Procedure

99% & 26dB & 6 Bandwidth :

The EUT was tested according to U-NII test procedure of 789033 D02 V01R01

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

3.5. Uncertainty

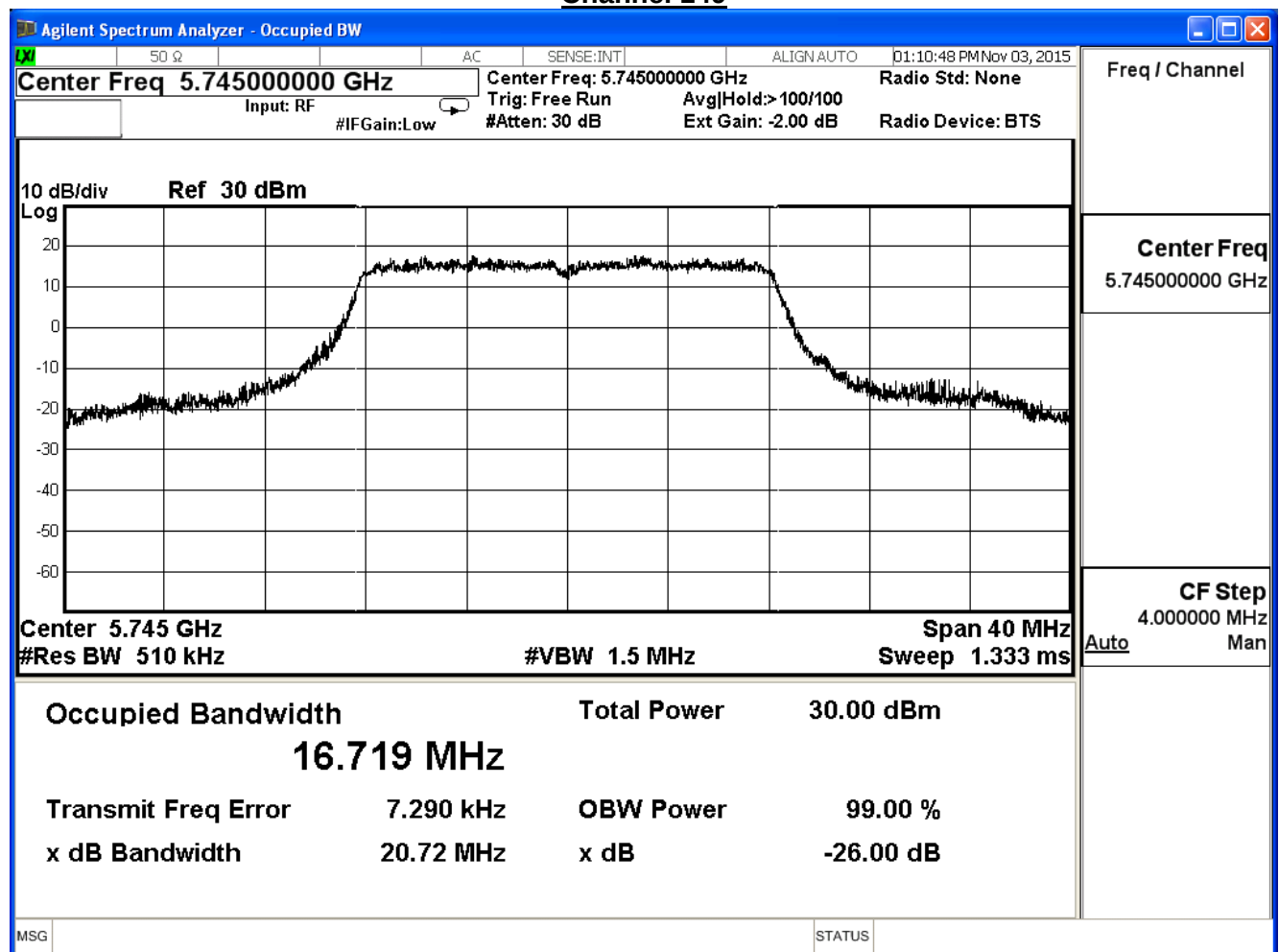
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

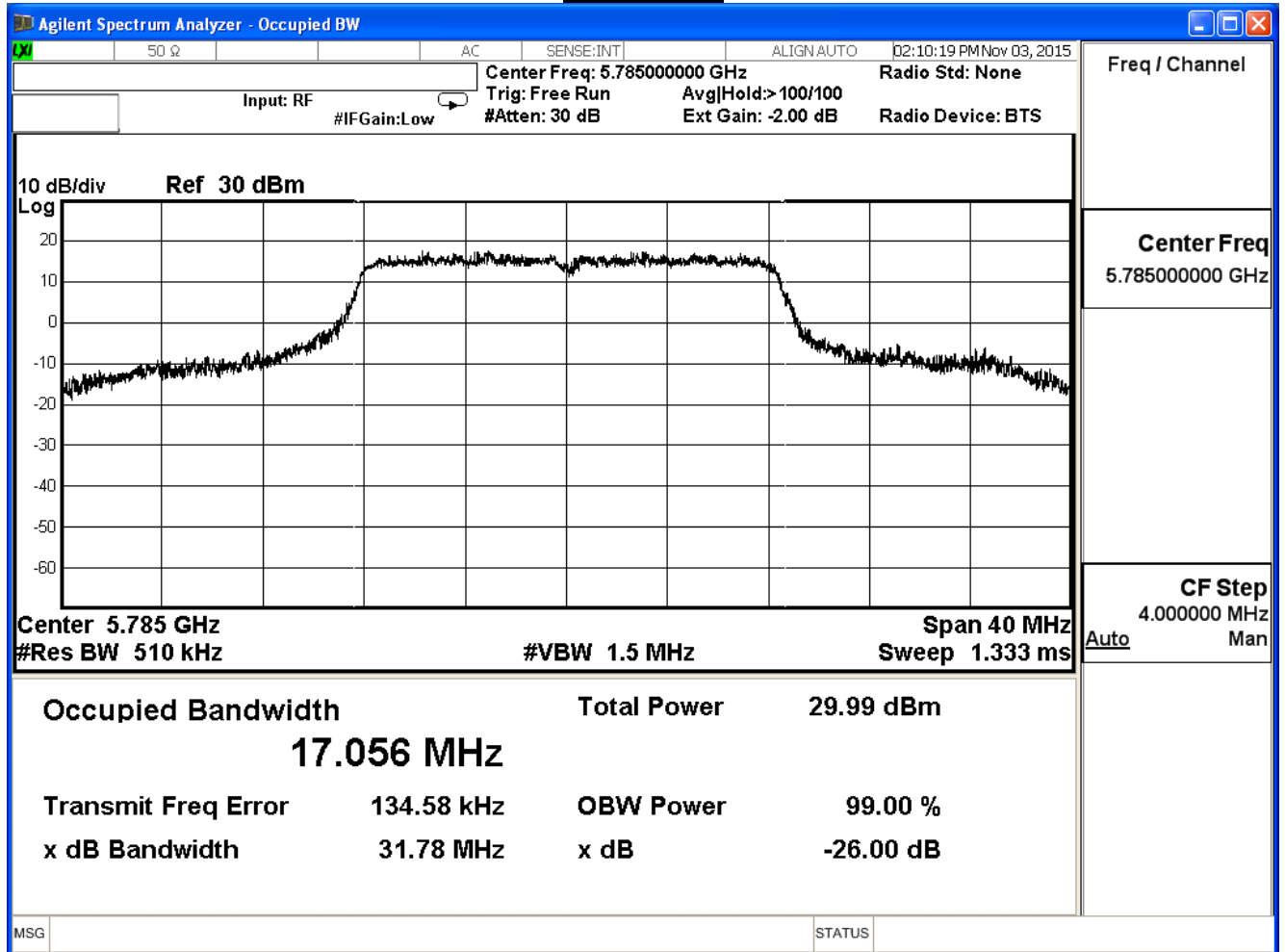
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

802.11 a (ANT 0)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	16.719	20.72	--
157	5785	17.056	31.78	--
165	5825	17.682	34.58	--

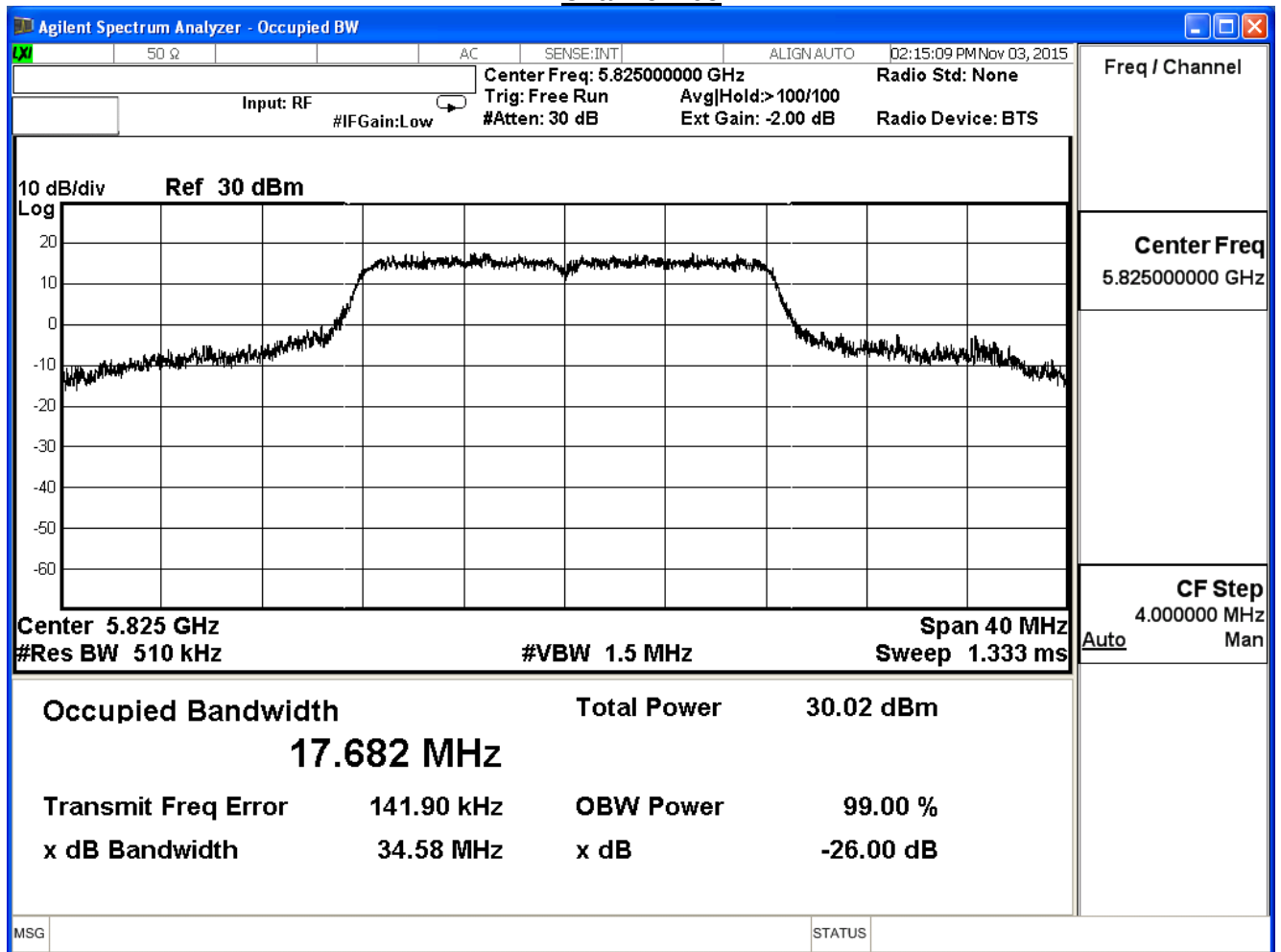
Channel 149



Channel 157



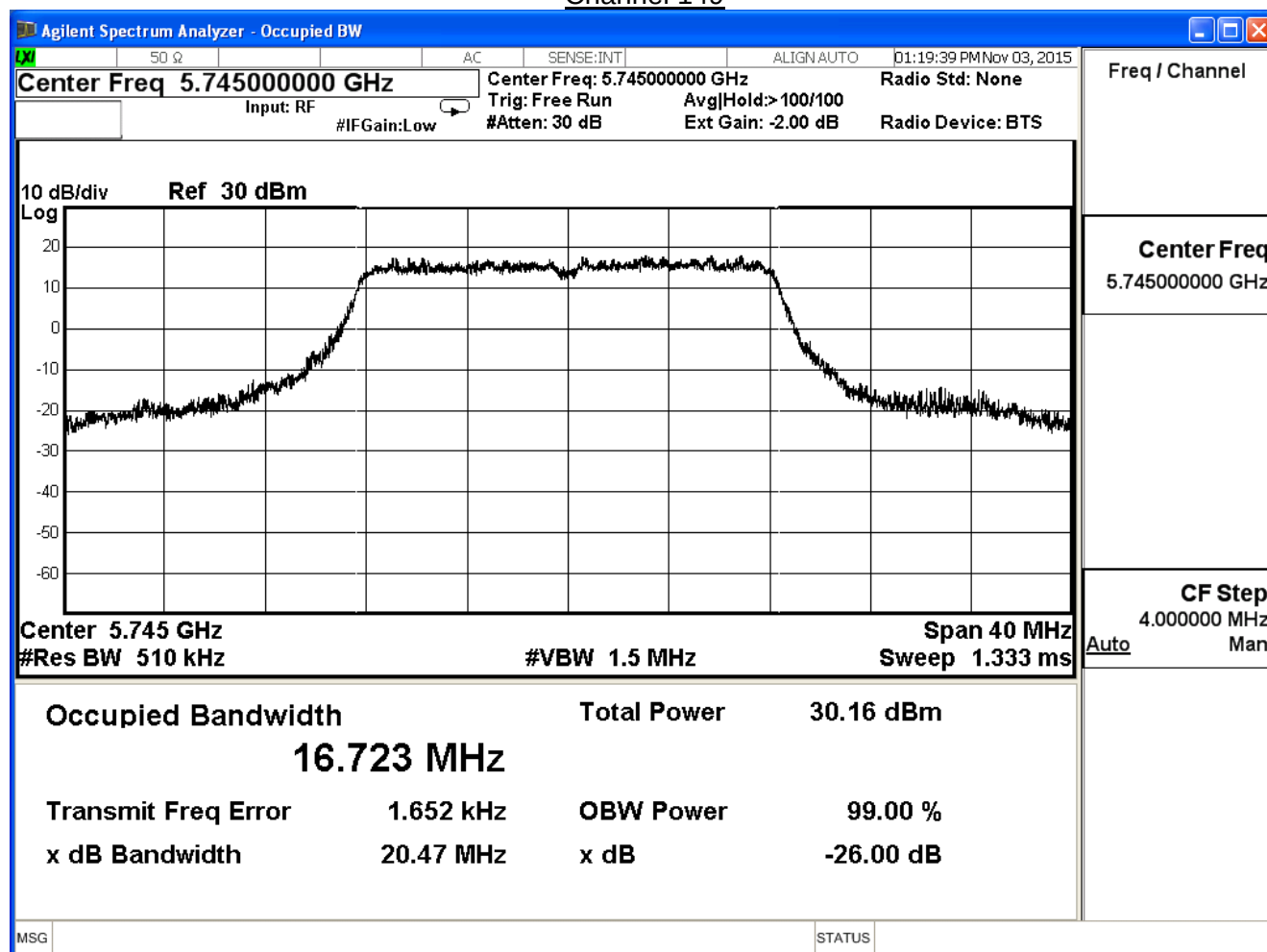
Channel 165



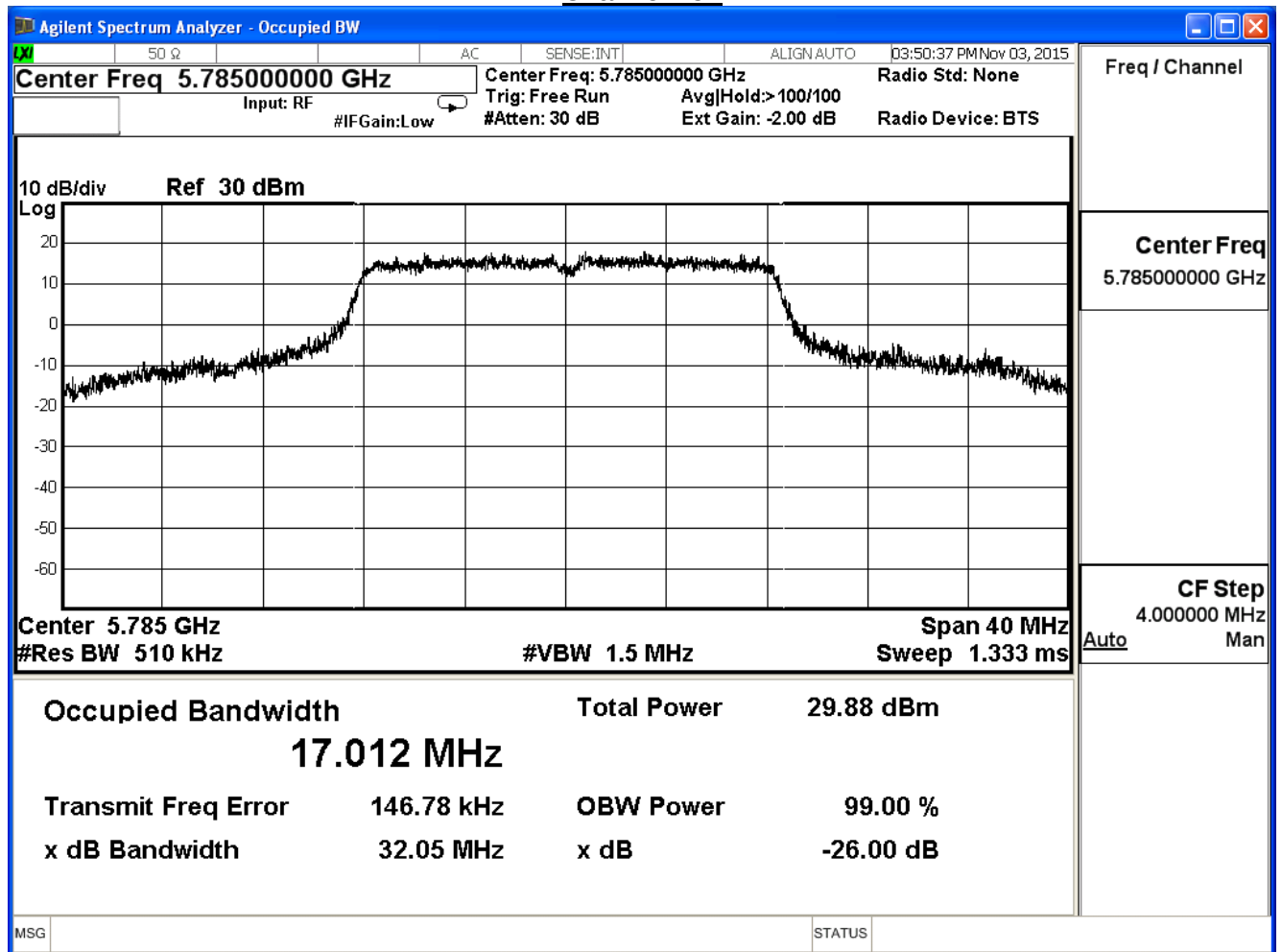
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

802.11 a (ANT 1)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	16.723	20.47	--
157	5785	17.012	32.05	--
165	5825	17.053	32.65	--

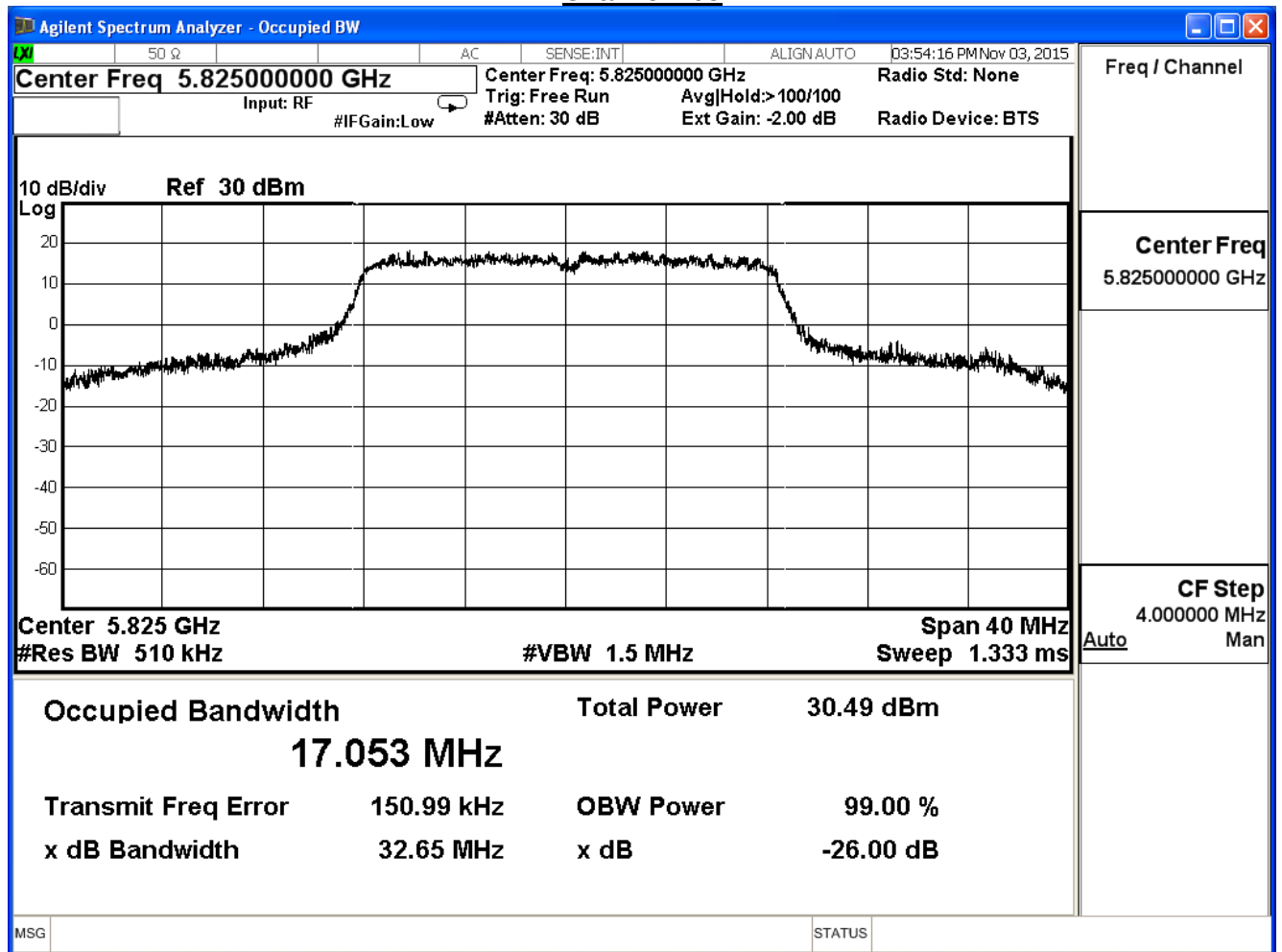
Channel 149



Channel 157



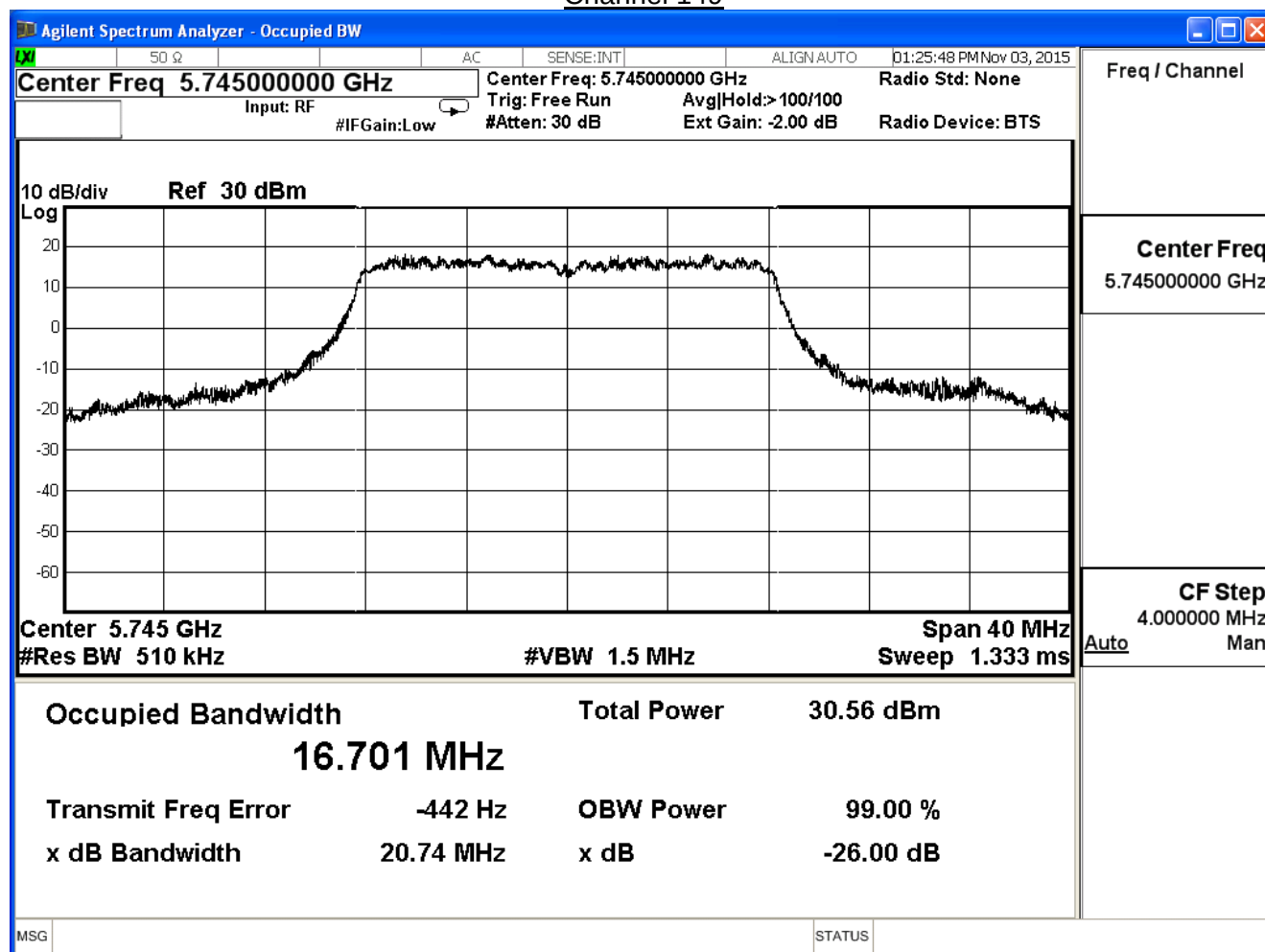
Channel 165



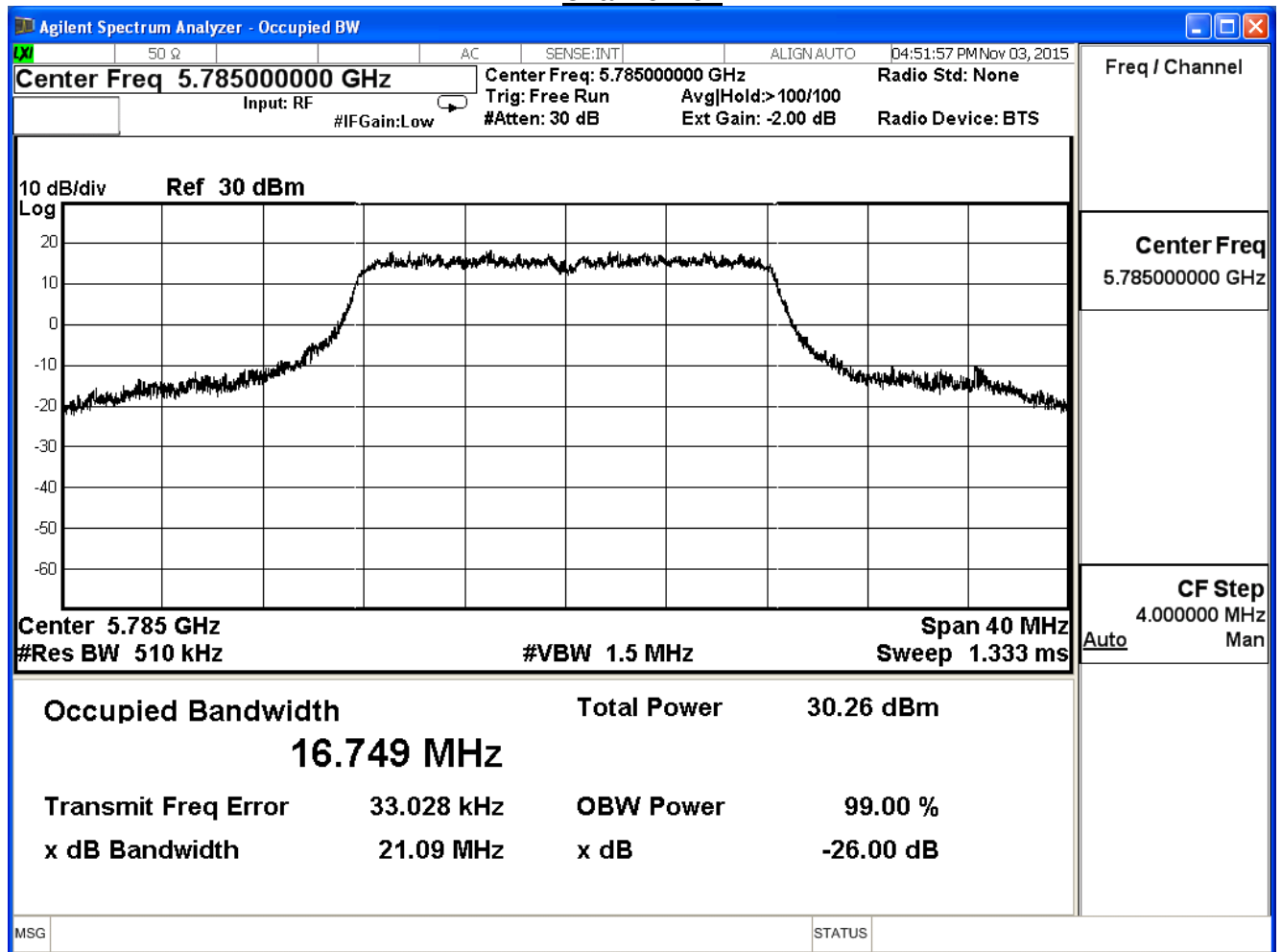
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

802.11 a (ANT 2)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	16.701	20.74	--
157	5785	16.749	21.09	--
165	5825	16.770	21.09	--

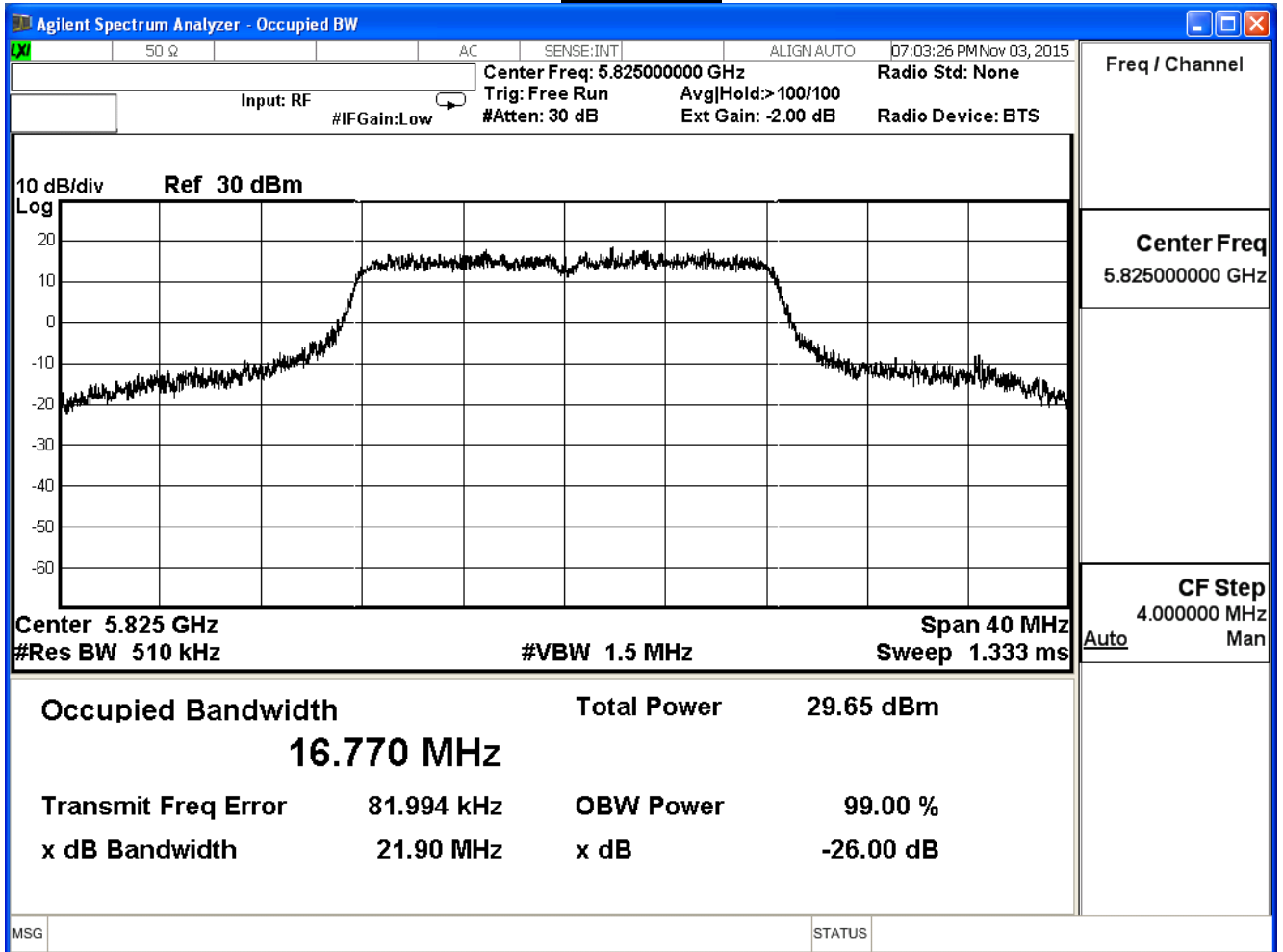
Channel 149



Channel 157



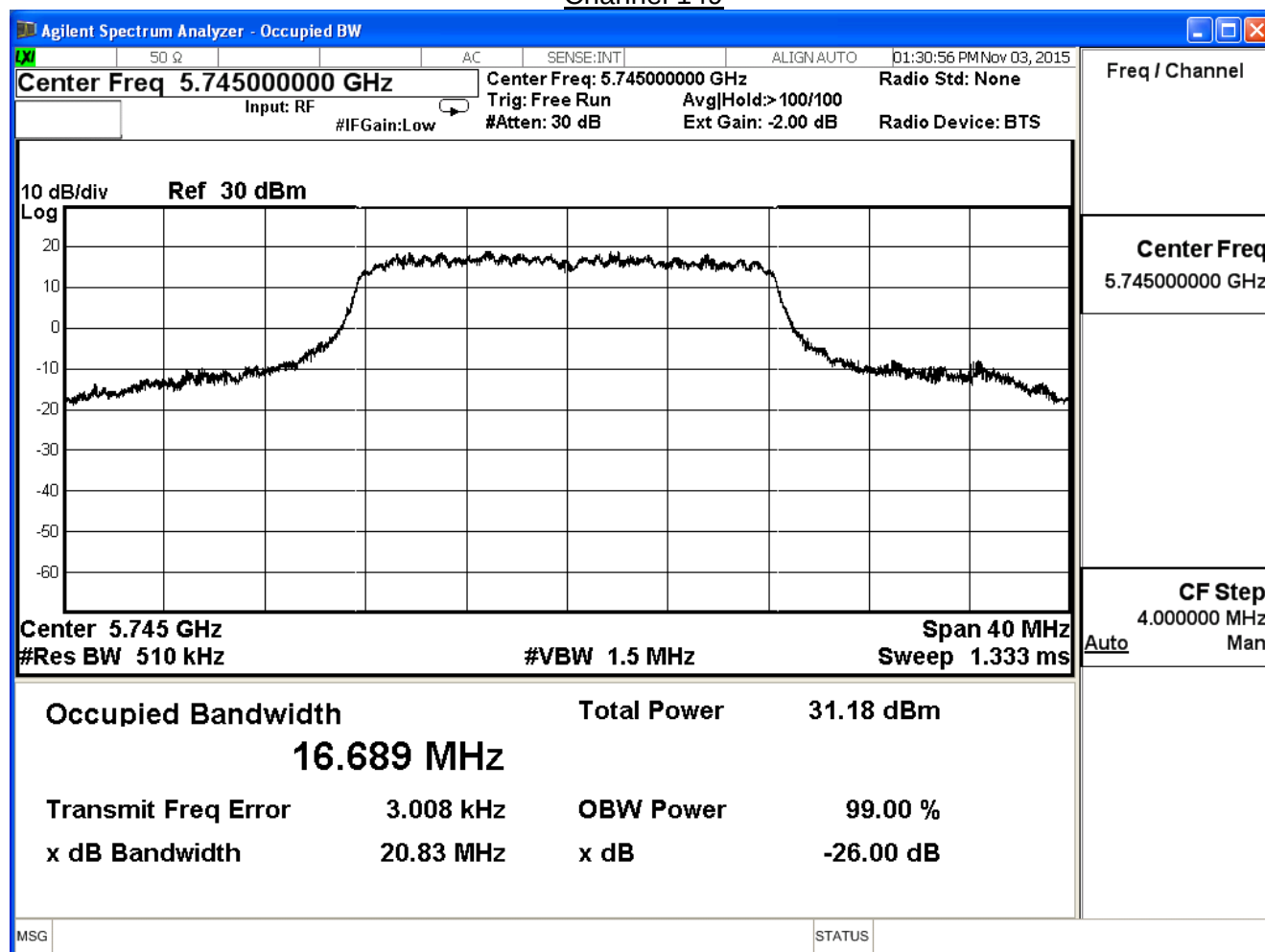
Channel 165



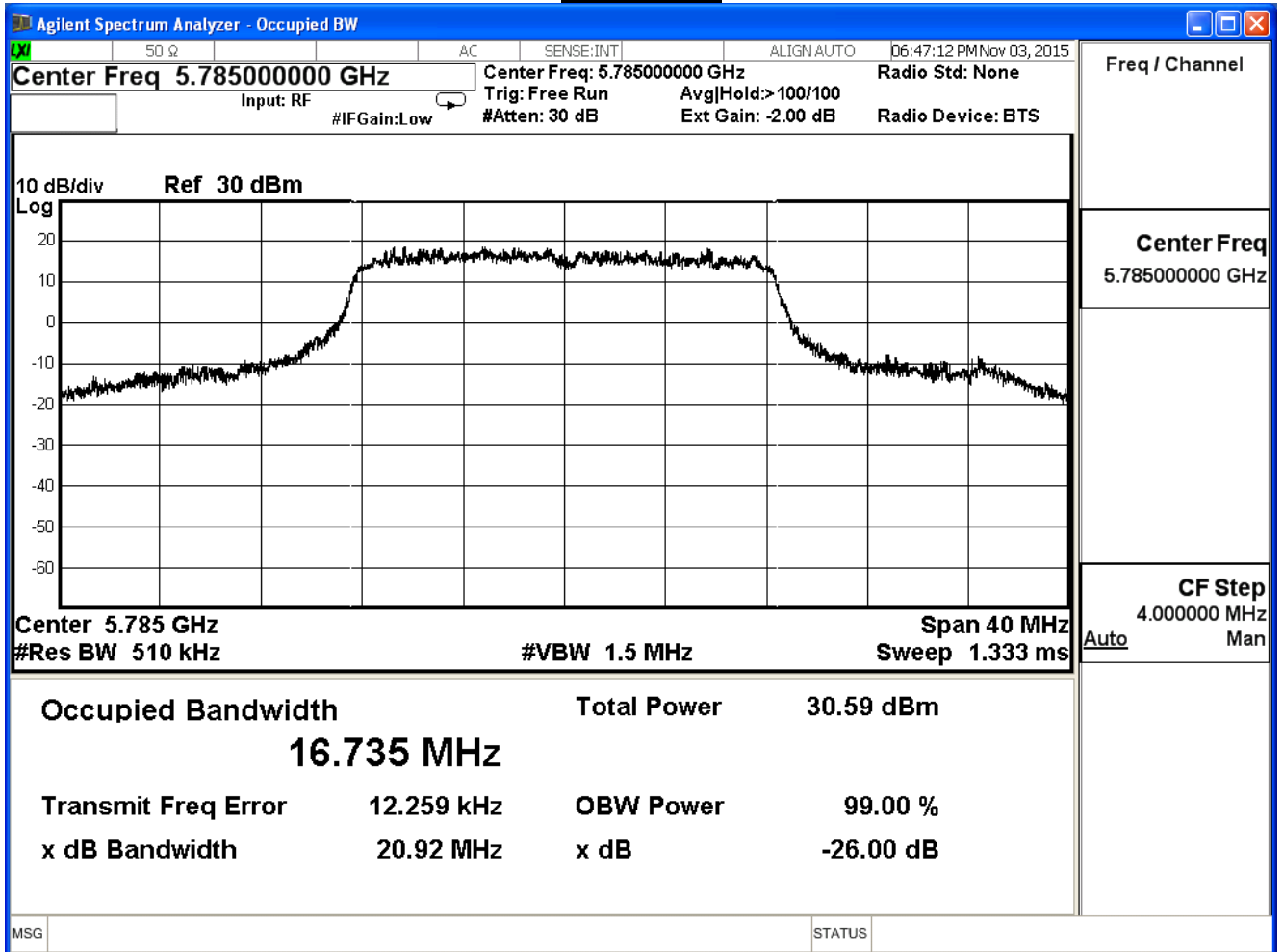
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

802.11 a (ANT 3)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	16.689	20.83	--
157	5785	16.735	20.92	--
165	5825	16.875	28.85	--

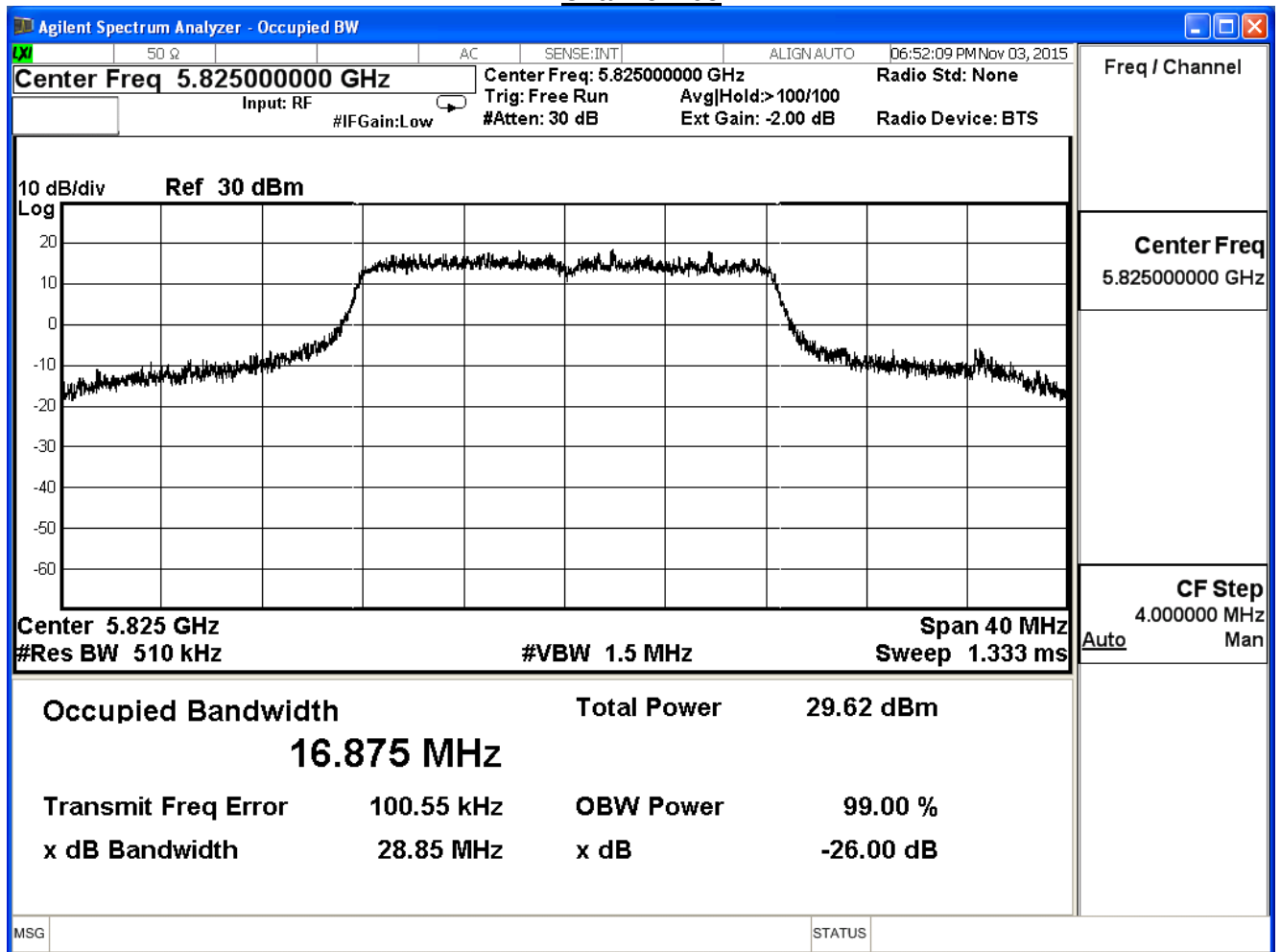
Channel 149



Channel 157



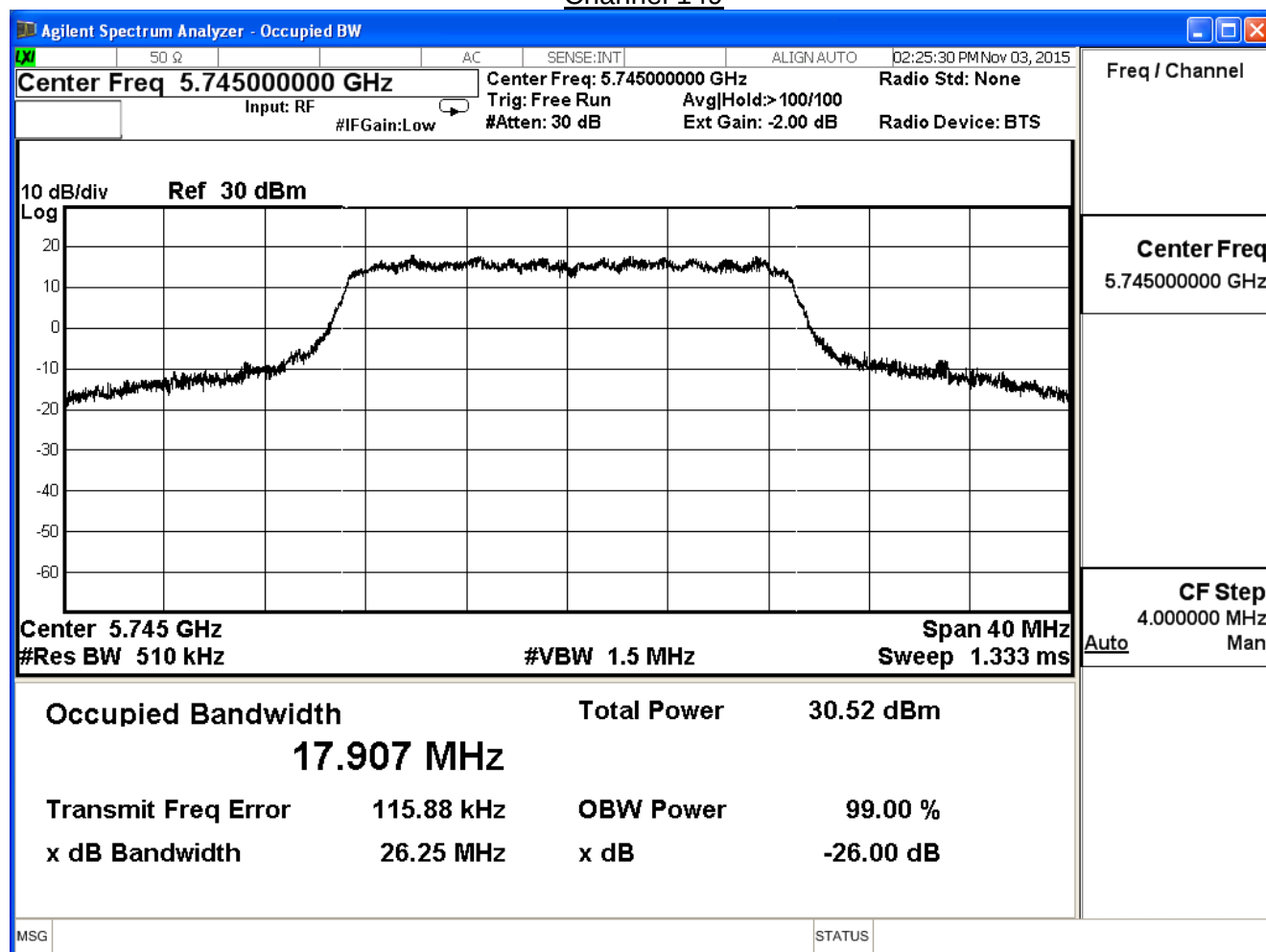
Channel 165



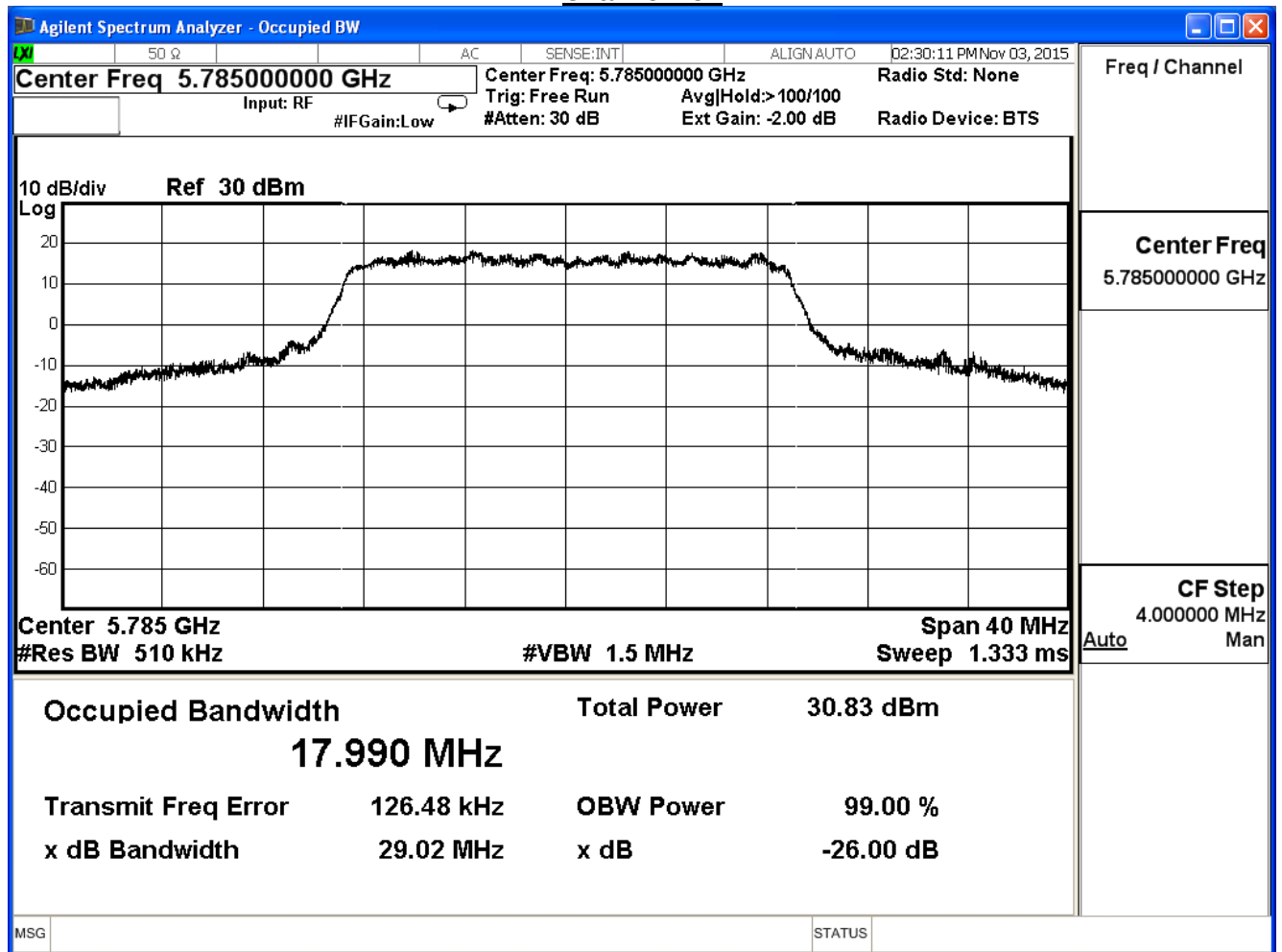
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	17.907	26.25	--
157	5785	17.990	29.02	--
165	5825	18.474	35.76	--

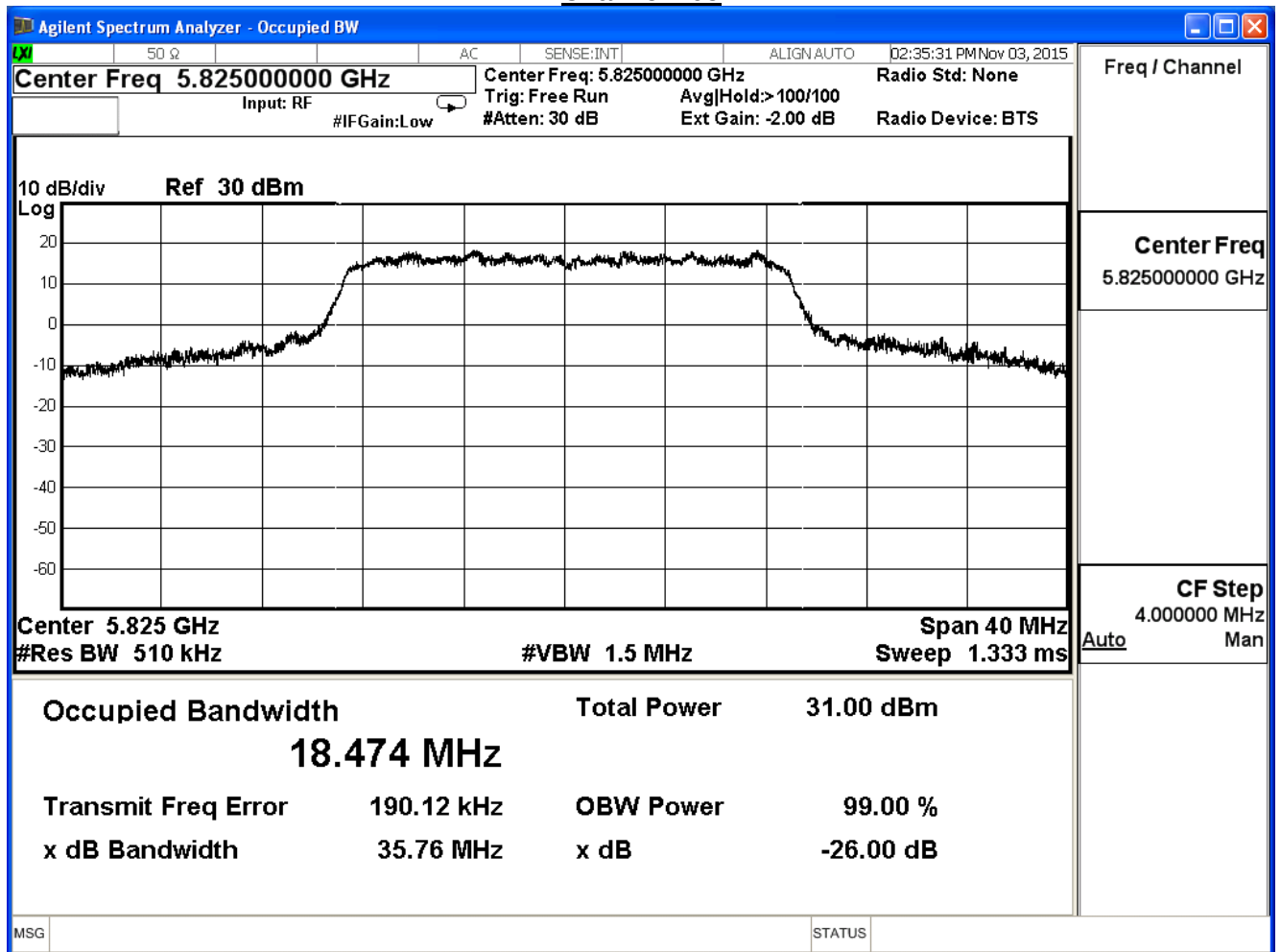
Channel 149



Channel 157



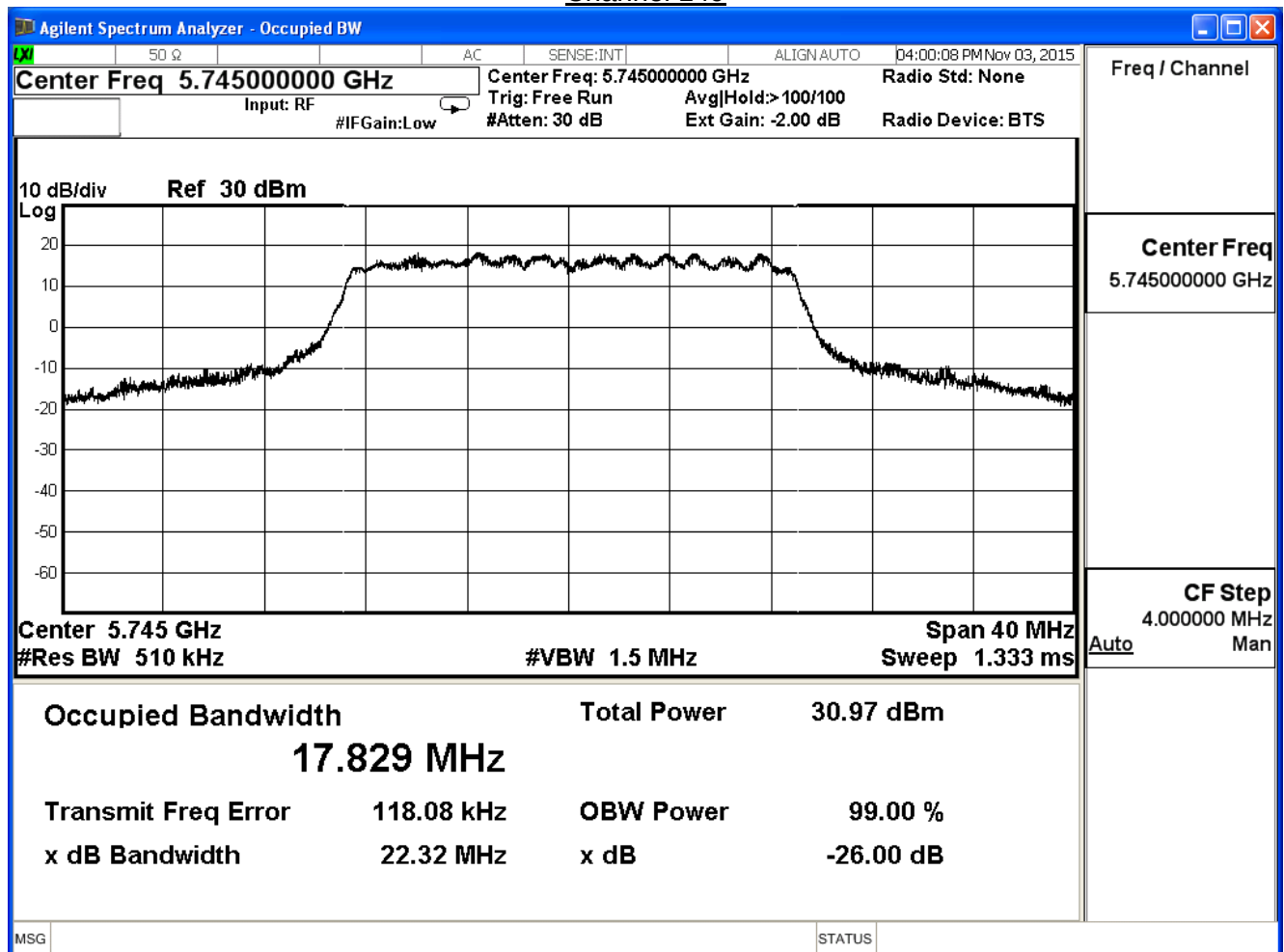
Channel 165



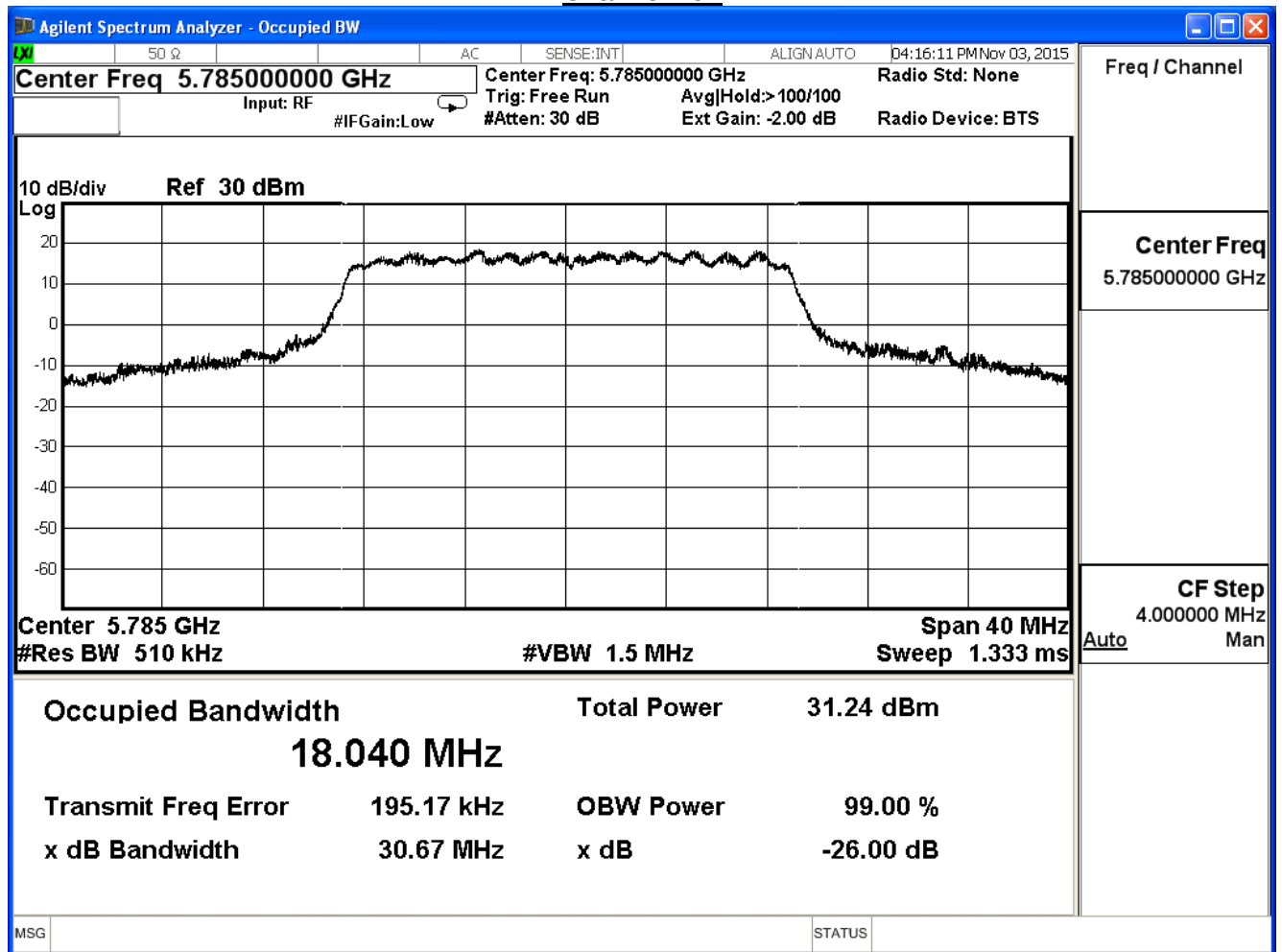
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	17.829	22.32	Pass
157	5785	18.040	30.67	Pass
165	5825	18.036	30.25	Pass

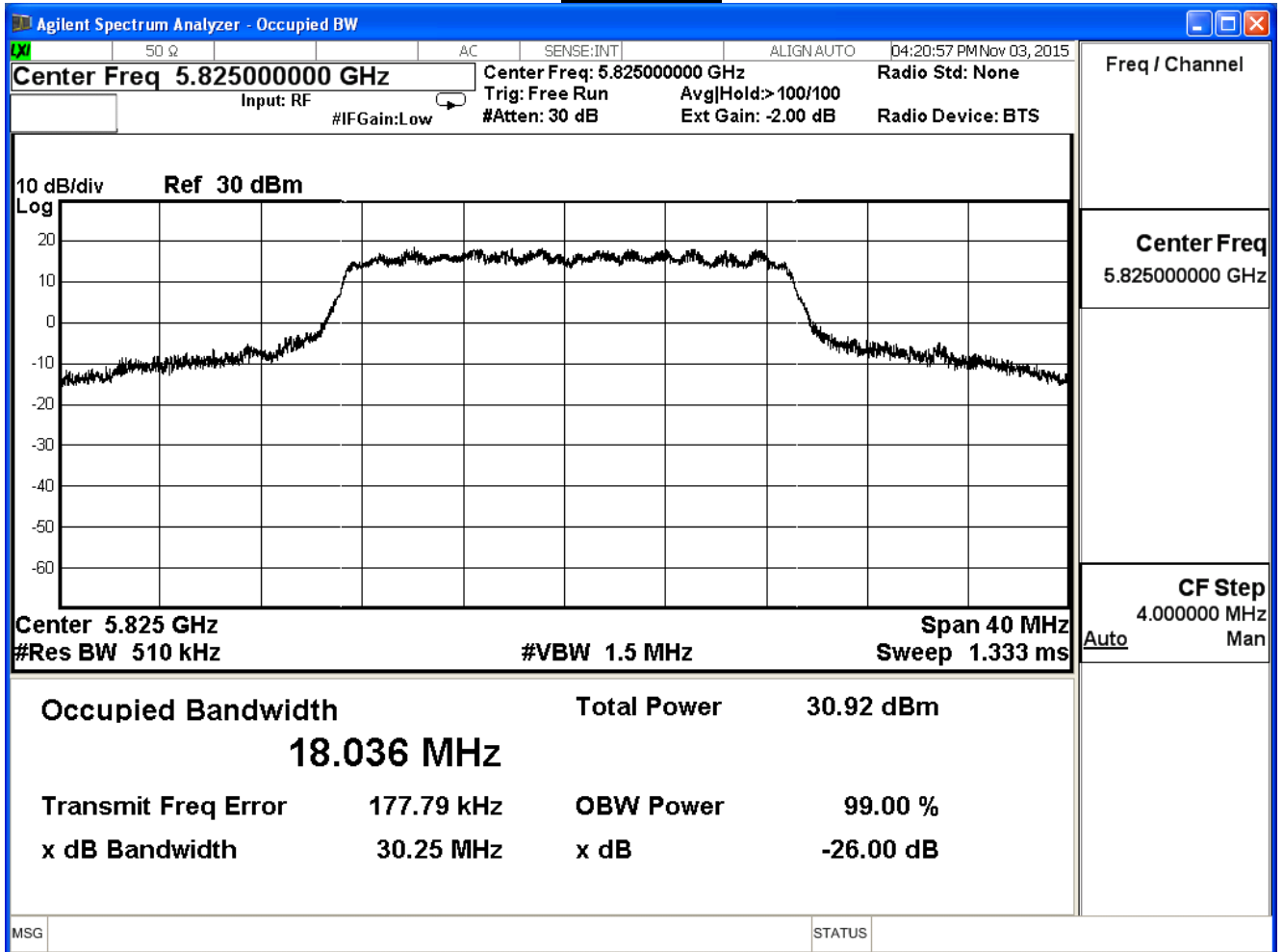
Channel 149



Channel 157



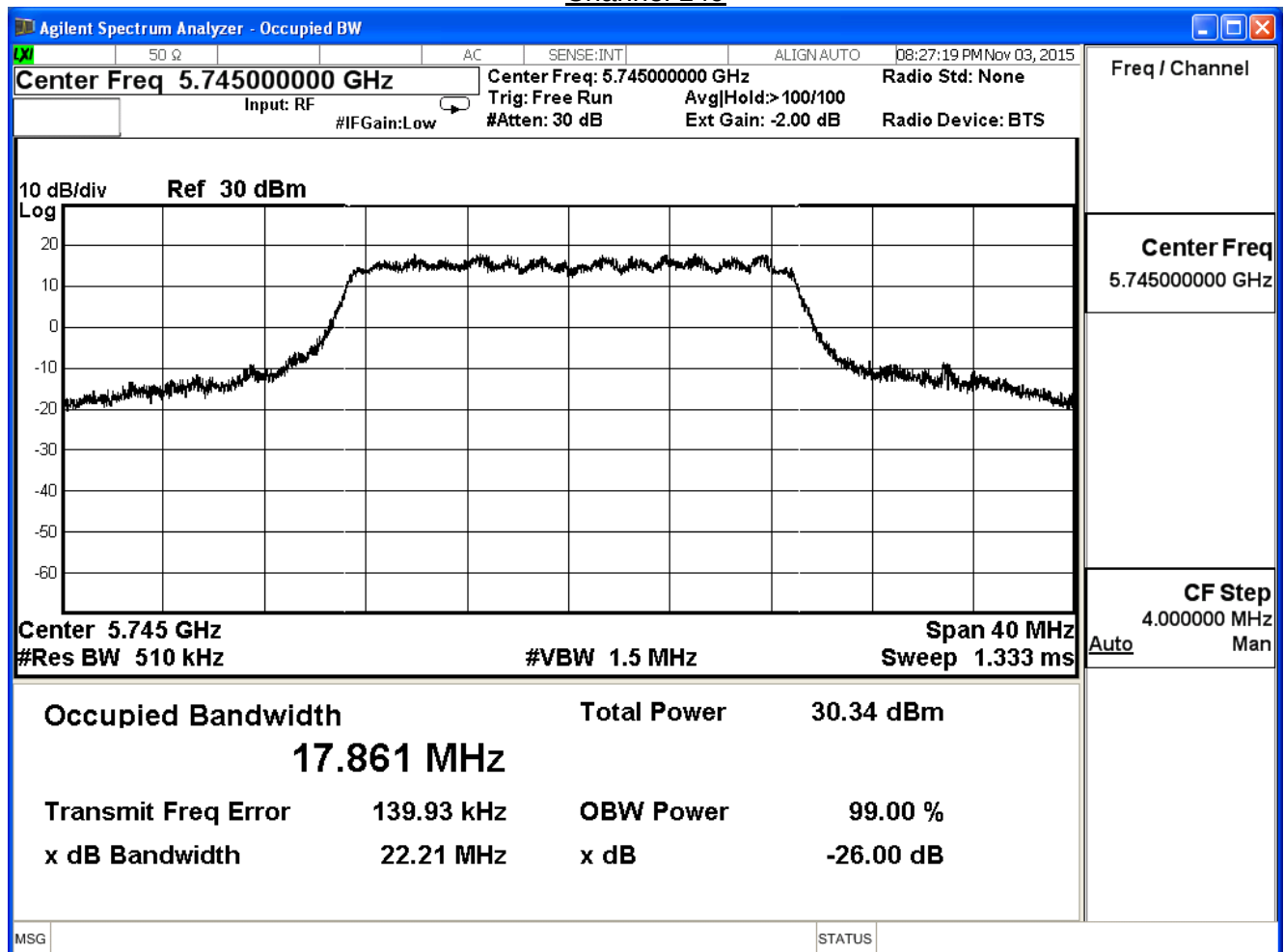
Channel 165



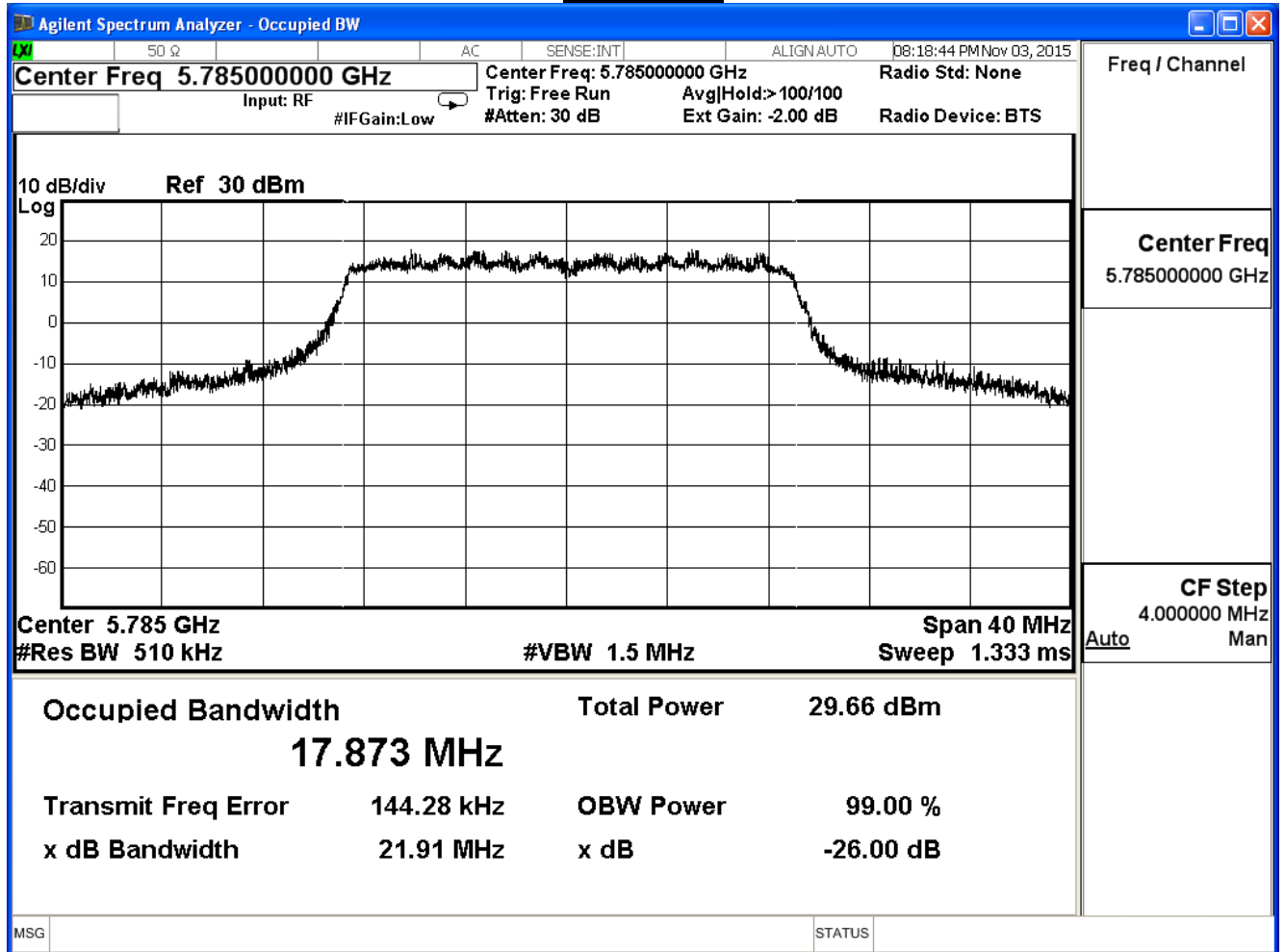
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	17.861	22.21	--
157	5785	17.873	21.91	--
165	5825	17.890	27.50	--

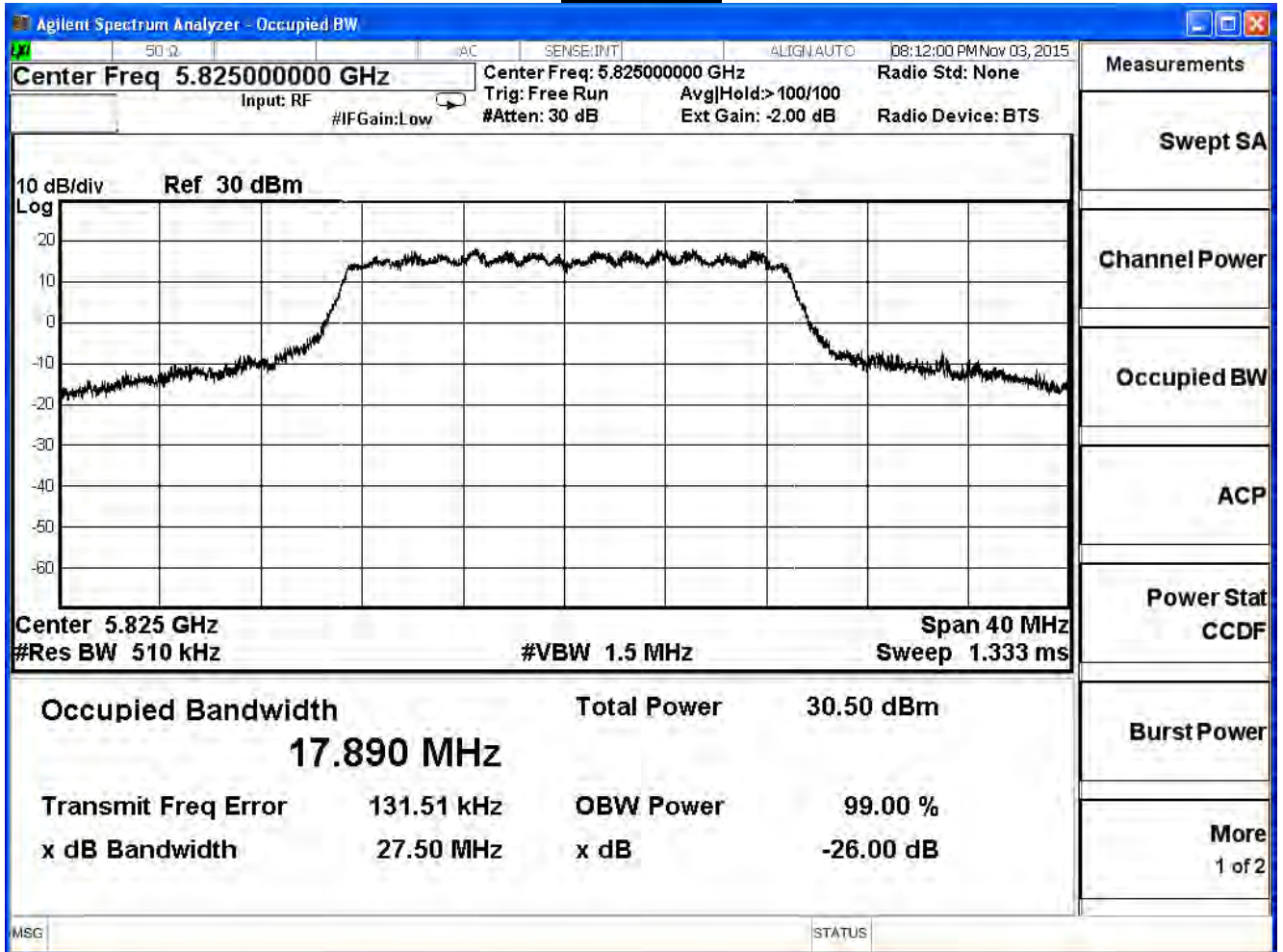
Channel 149



Channel 157



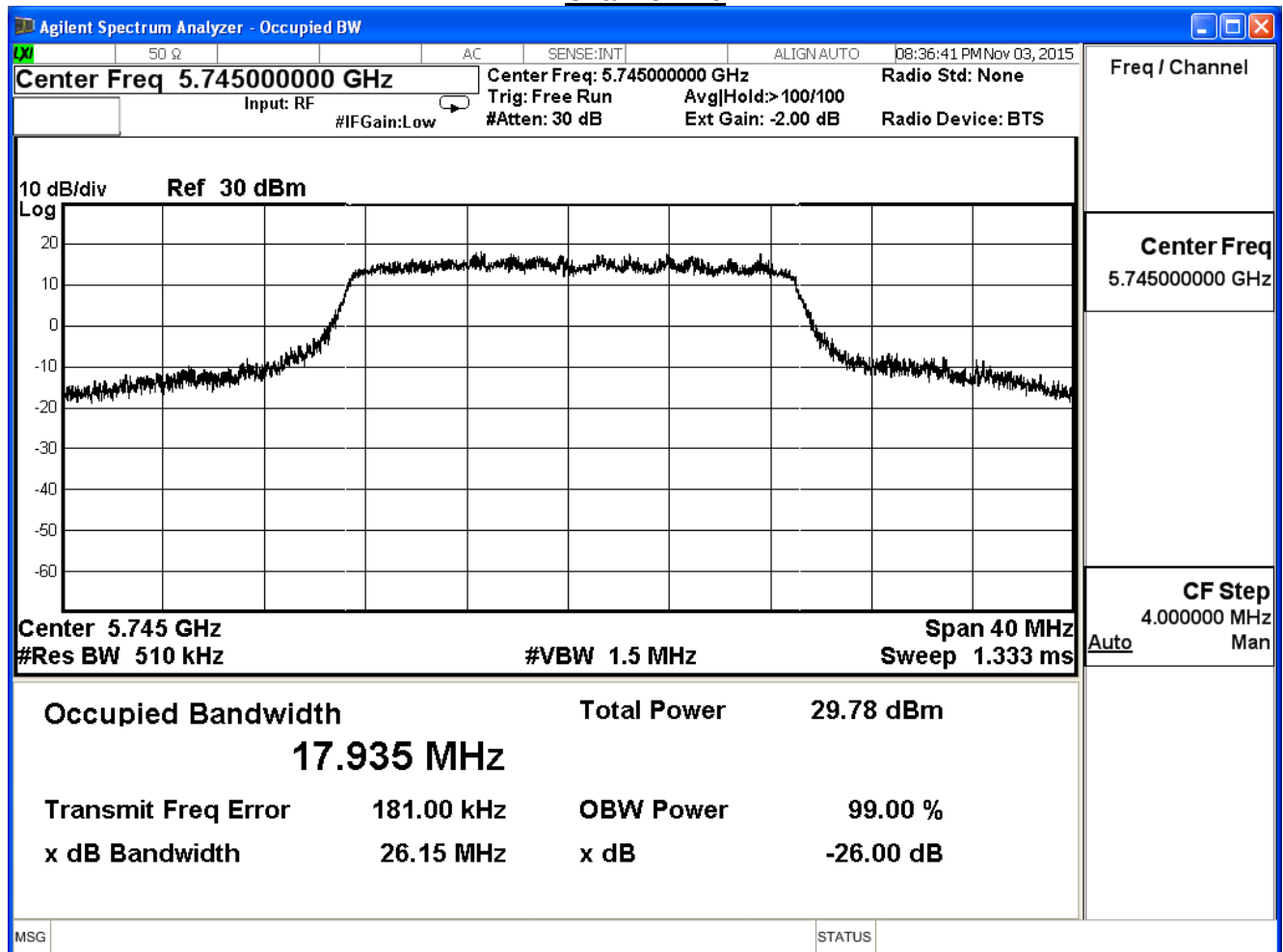
Channel 165



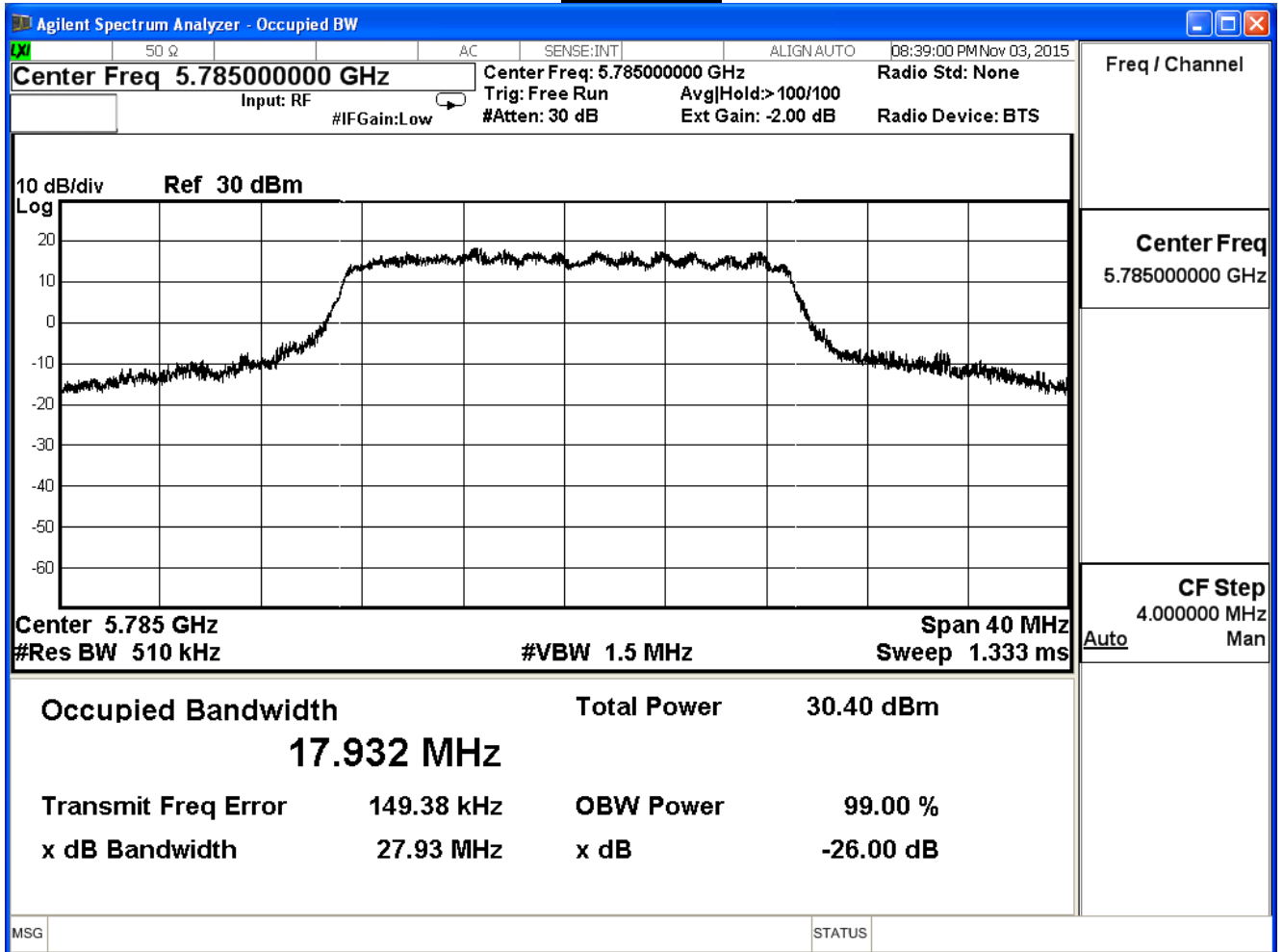
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 3)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
149	5745	17.935	26.15	--
157	5785	17.932	27.93	--
165	5825	18.031	29.06	--

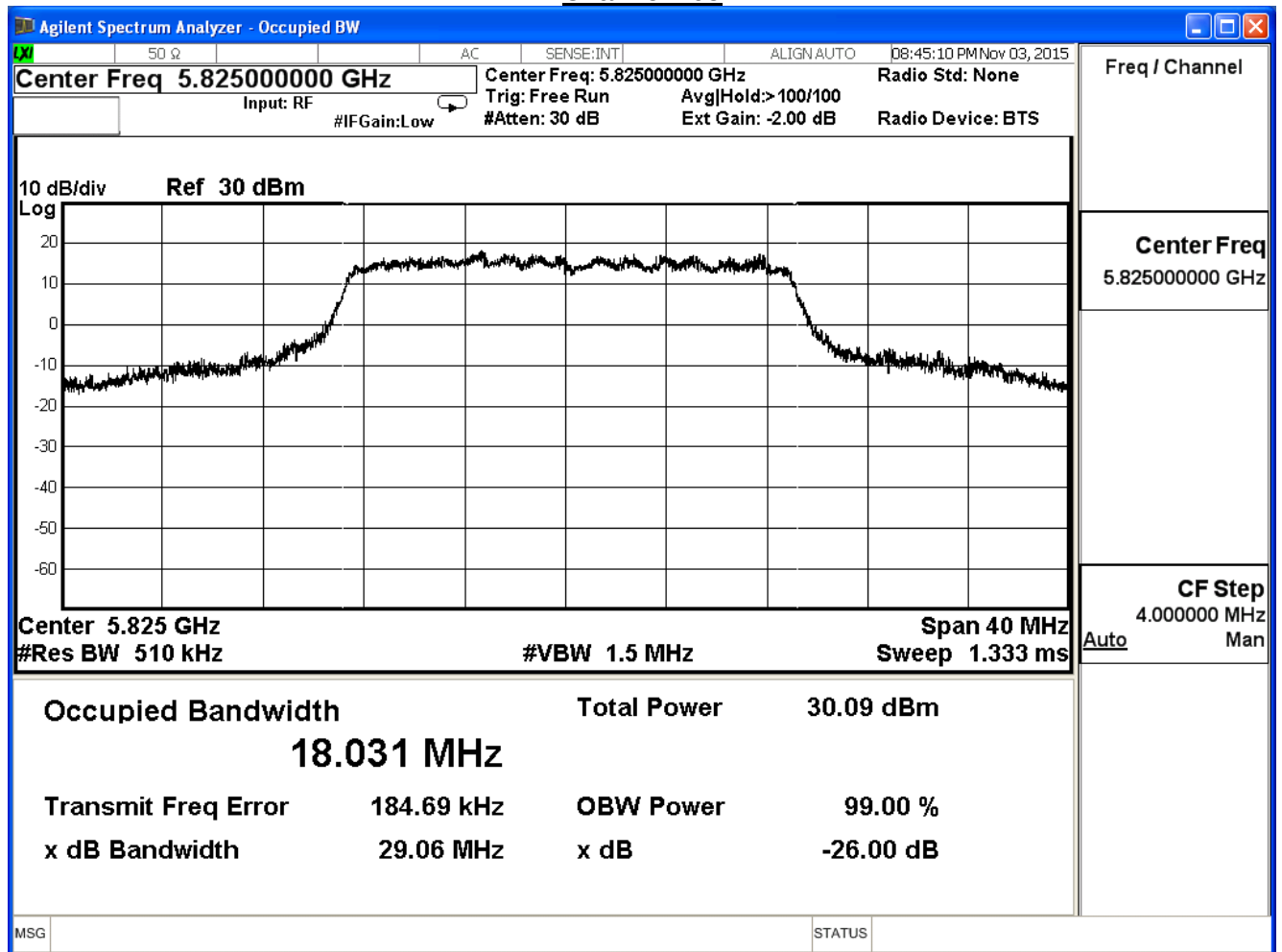
Channel 149



Channel 157



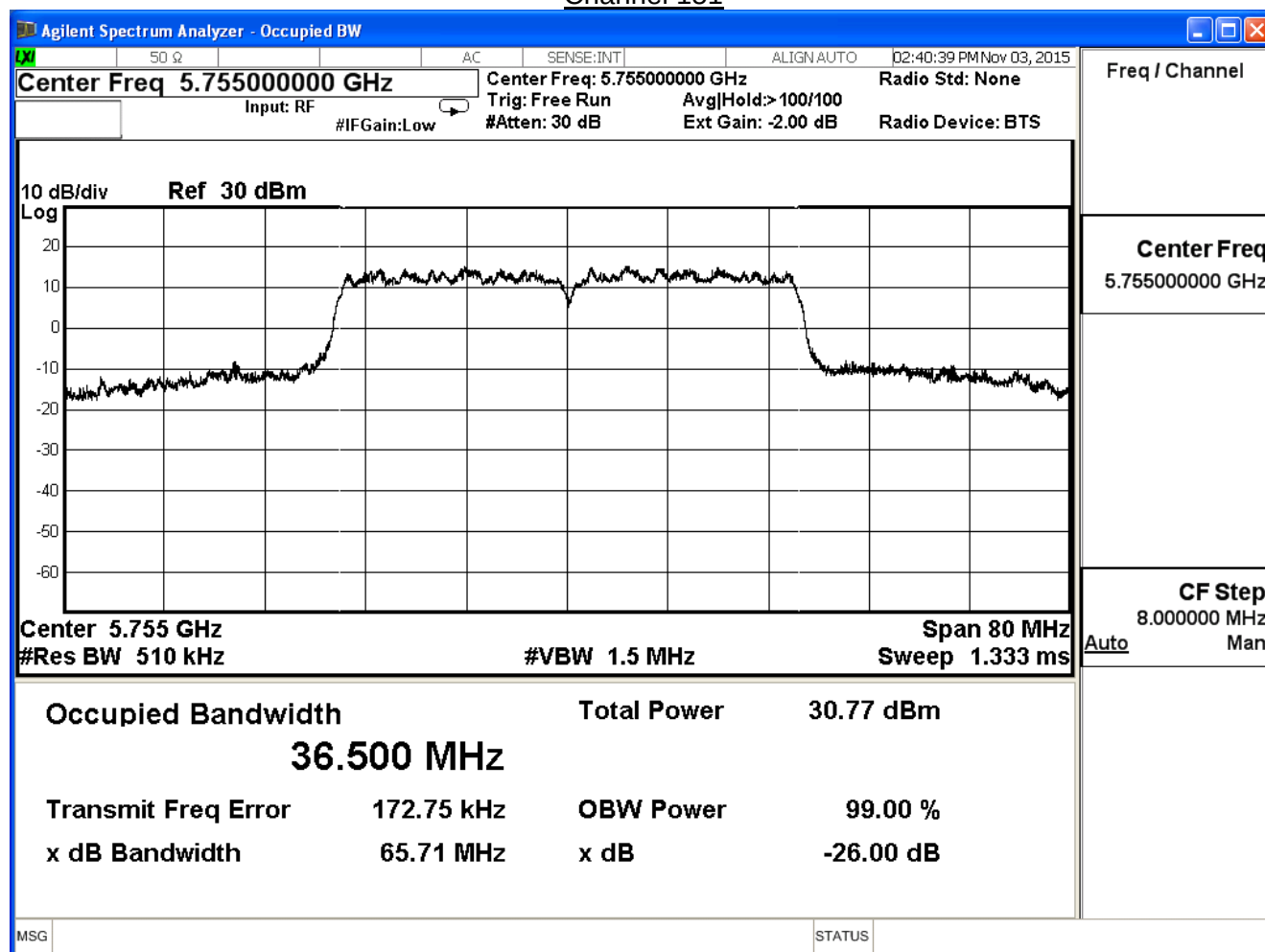
Channel 165



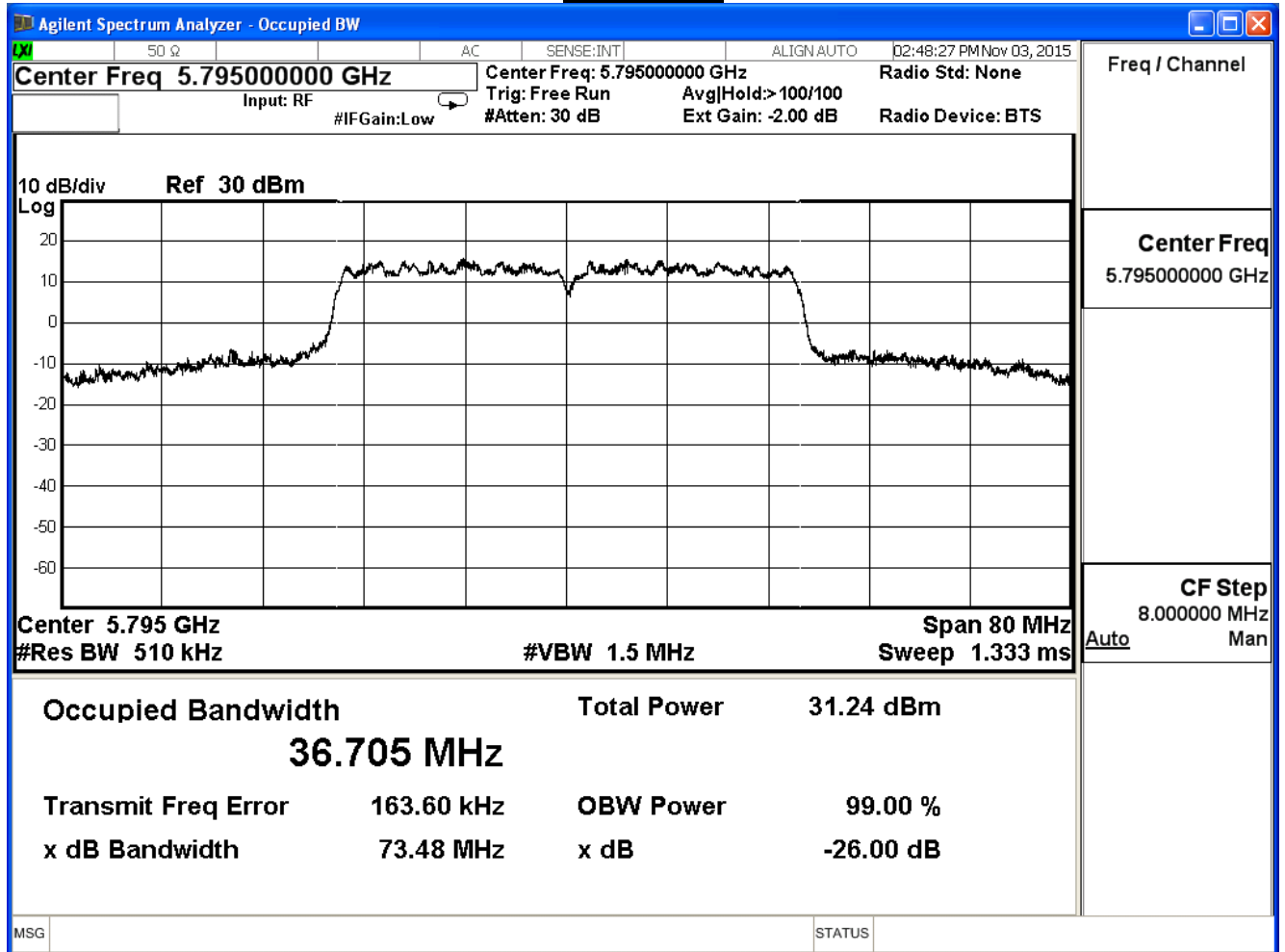
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
151	5755	36.500	65.71	--
159	5795	36.705	73.48	--

Channel 151



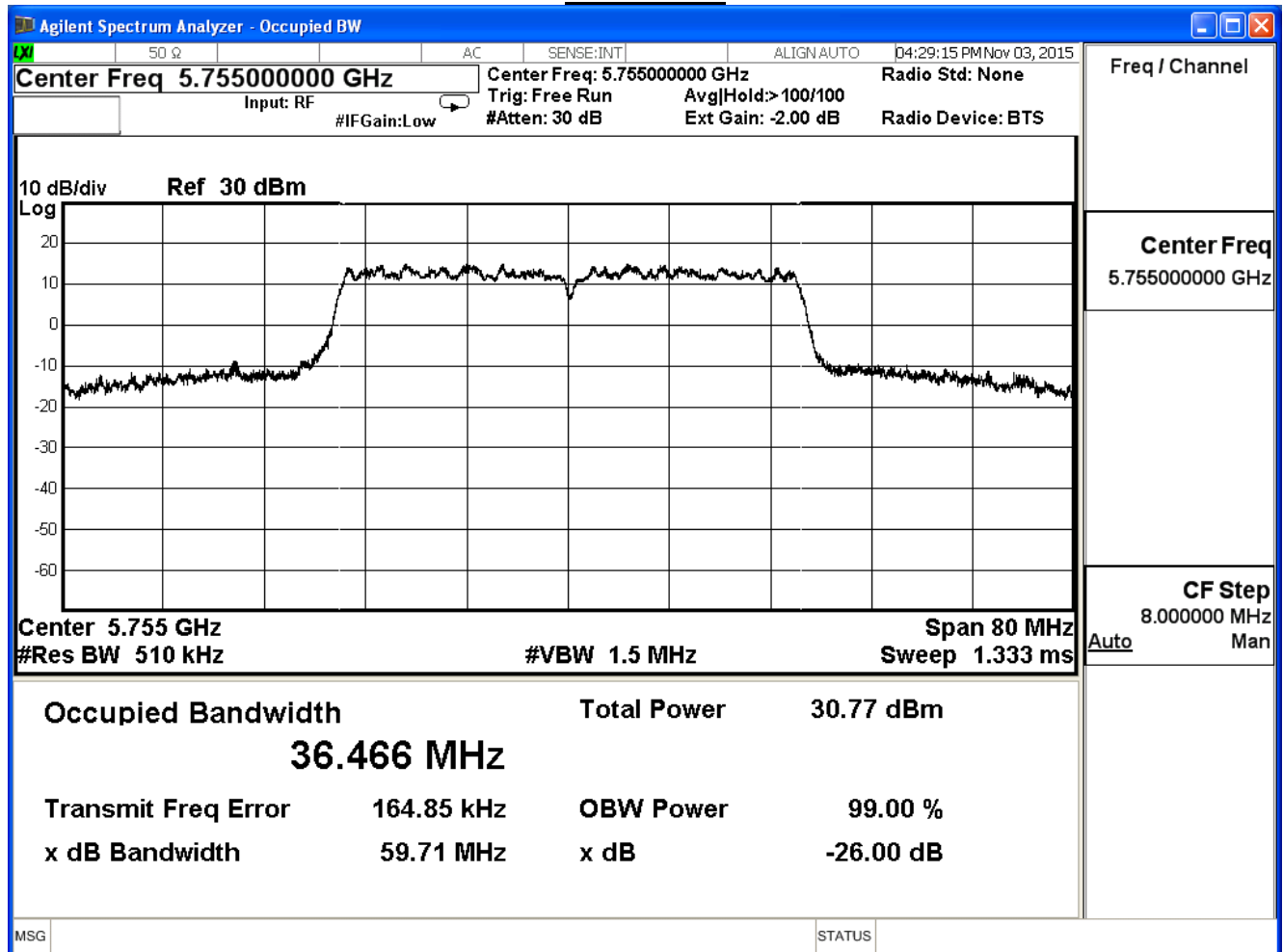
Channel 159



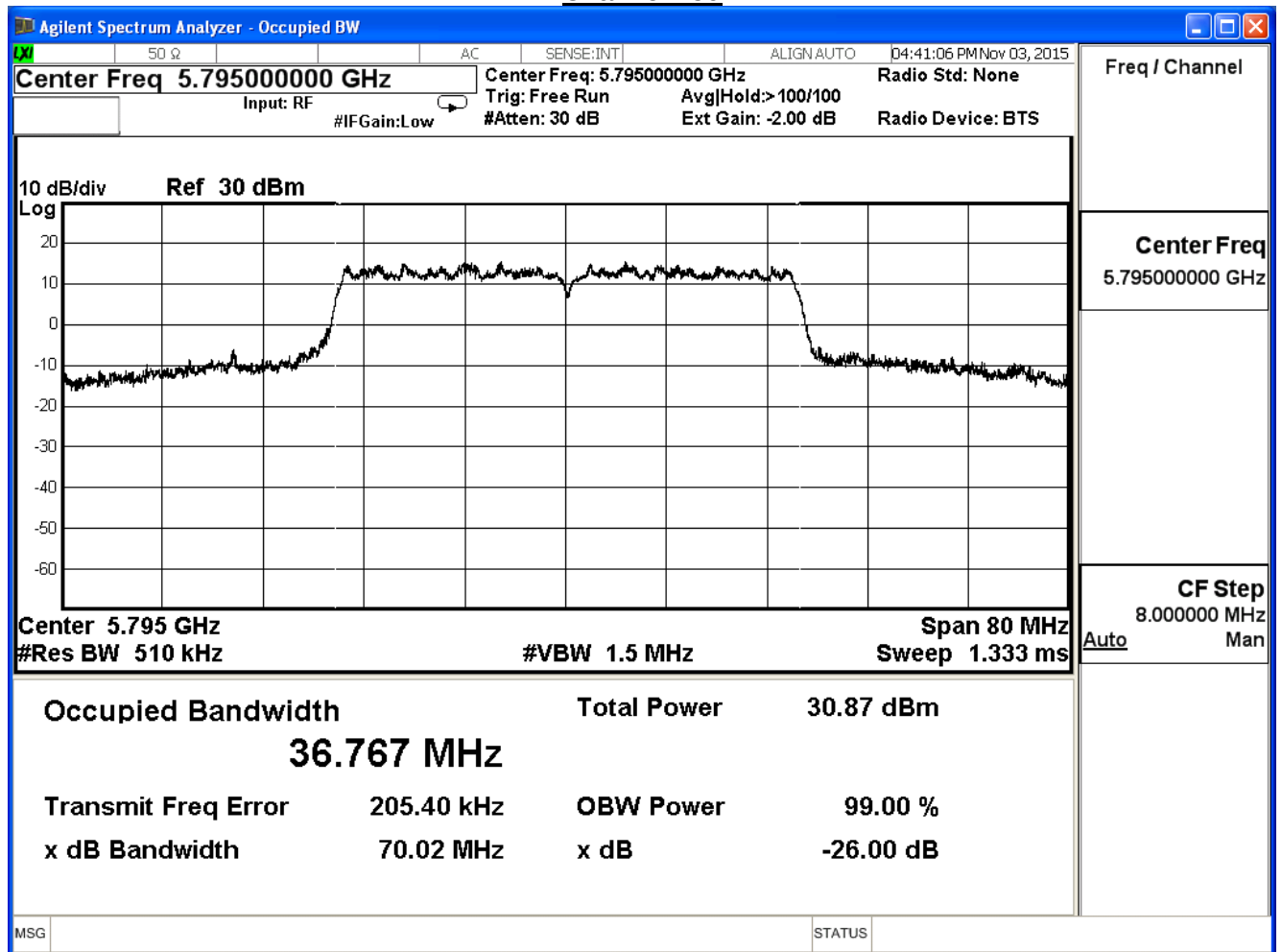
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
151	5755	36.466	59.71	--
159	5795	36.767	70.02	--

Channel 151



Channel 159

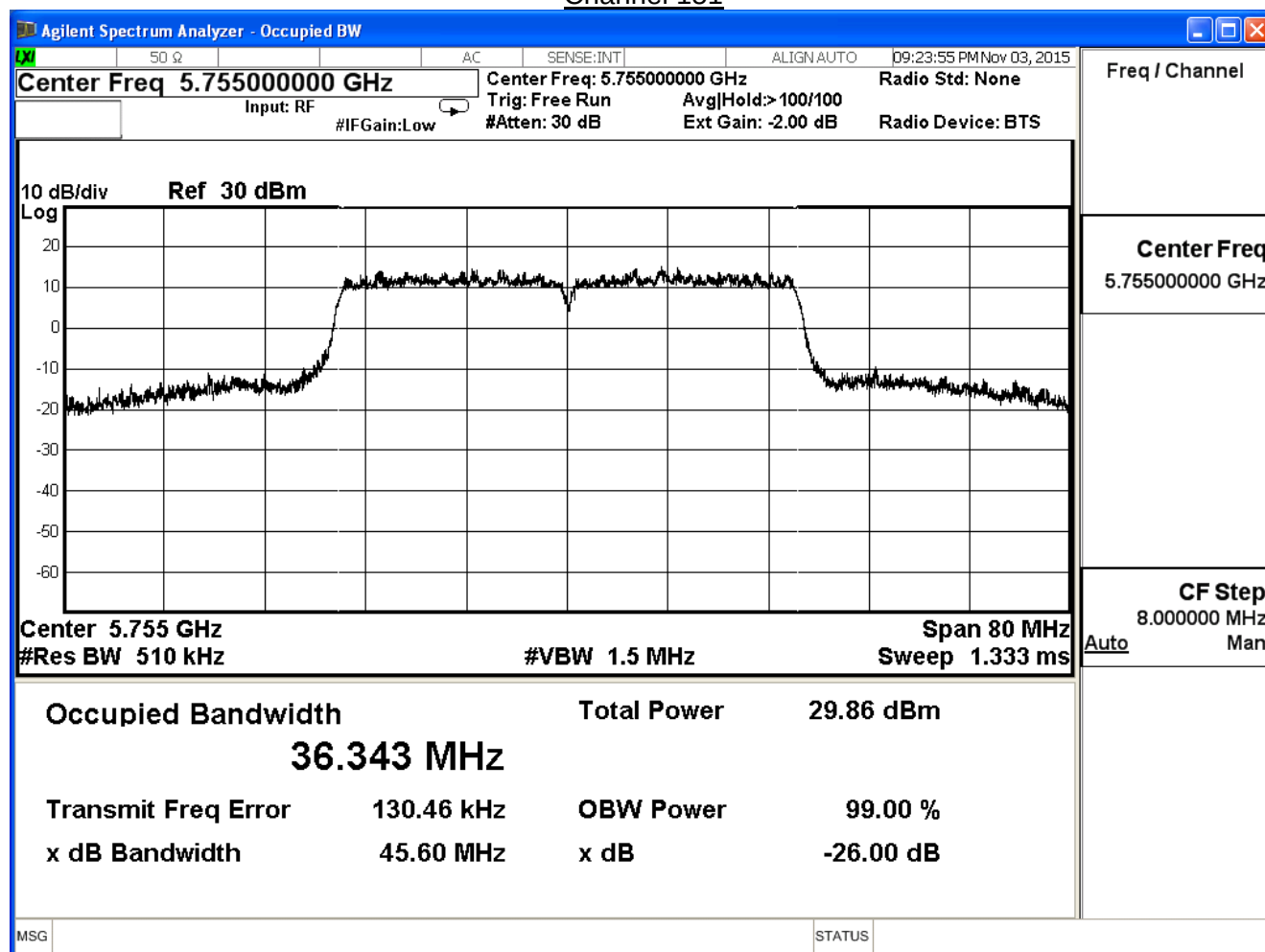


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

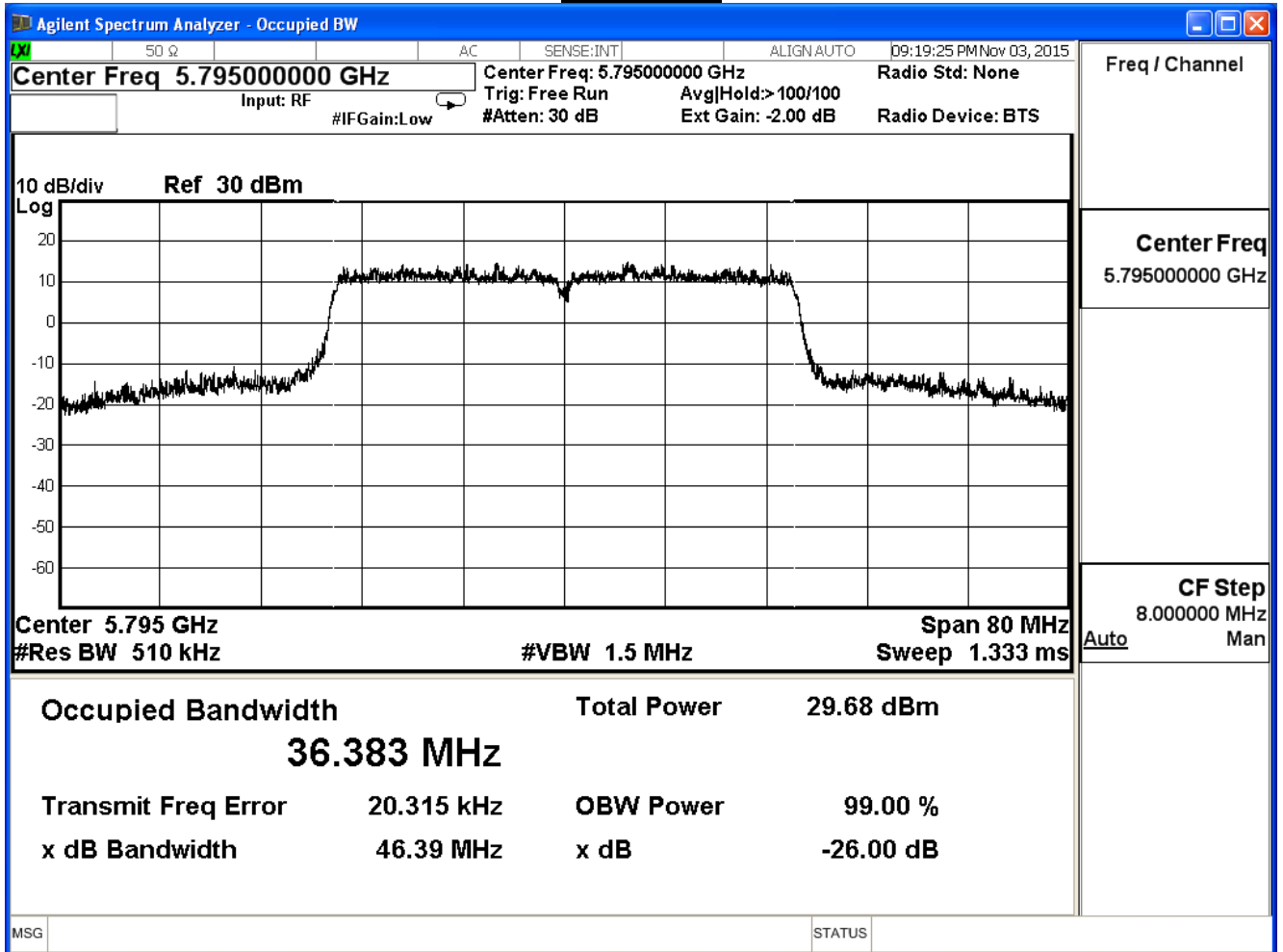
IEEE 802.11n (40MHz)(ANT 2)

Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
151	5755	36.343	45.60	--
159	5795	36.383	46.39	--

Channel 151



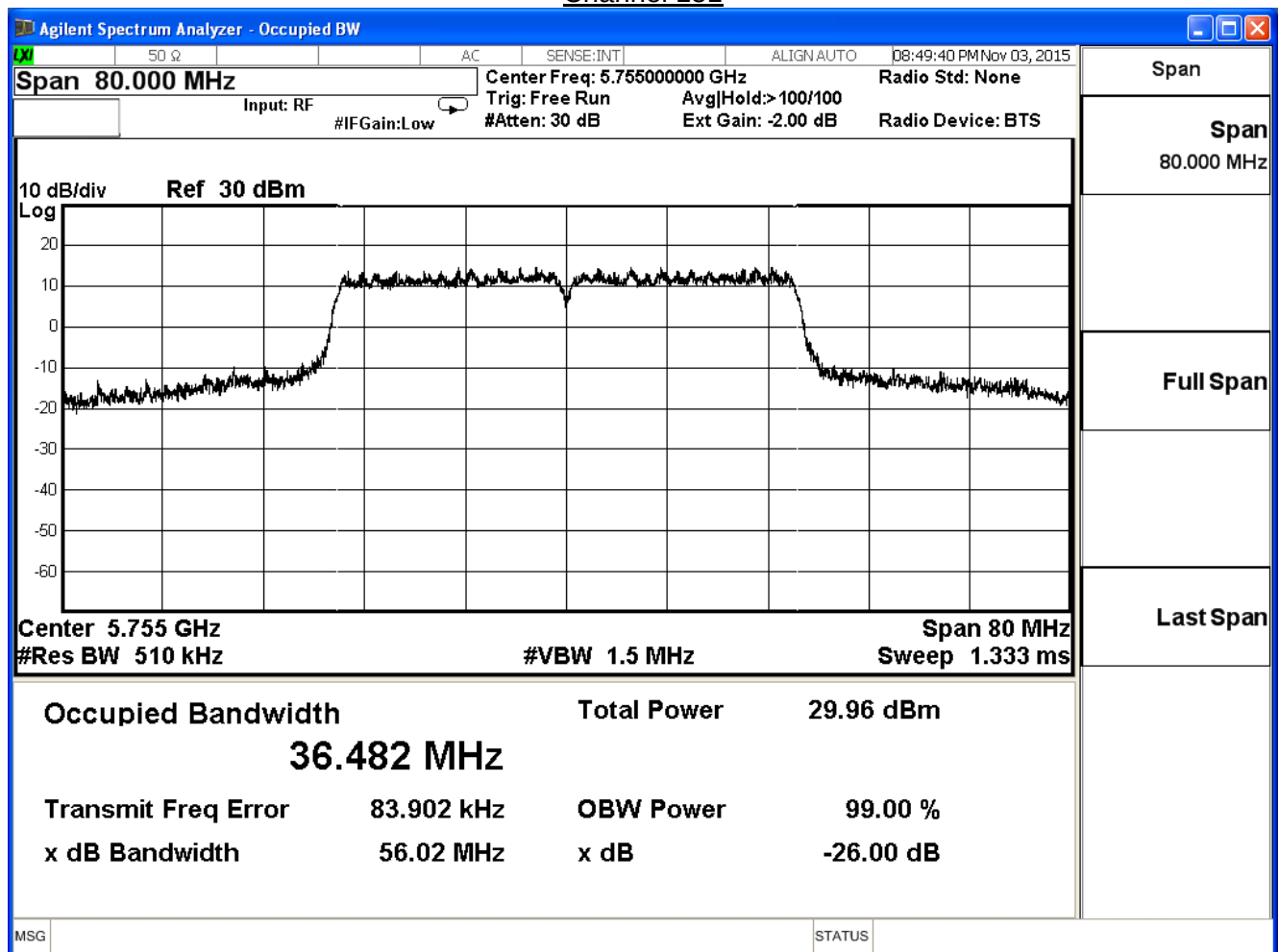
Channel 159



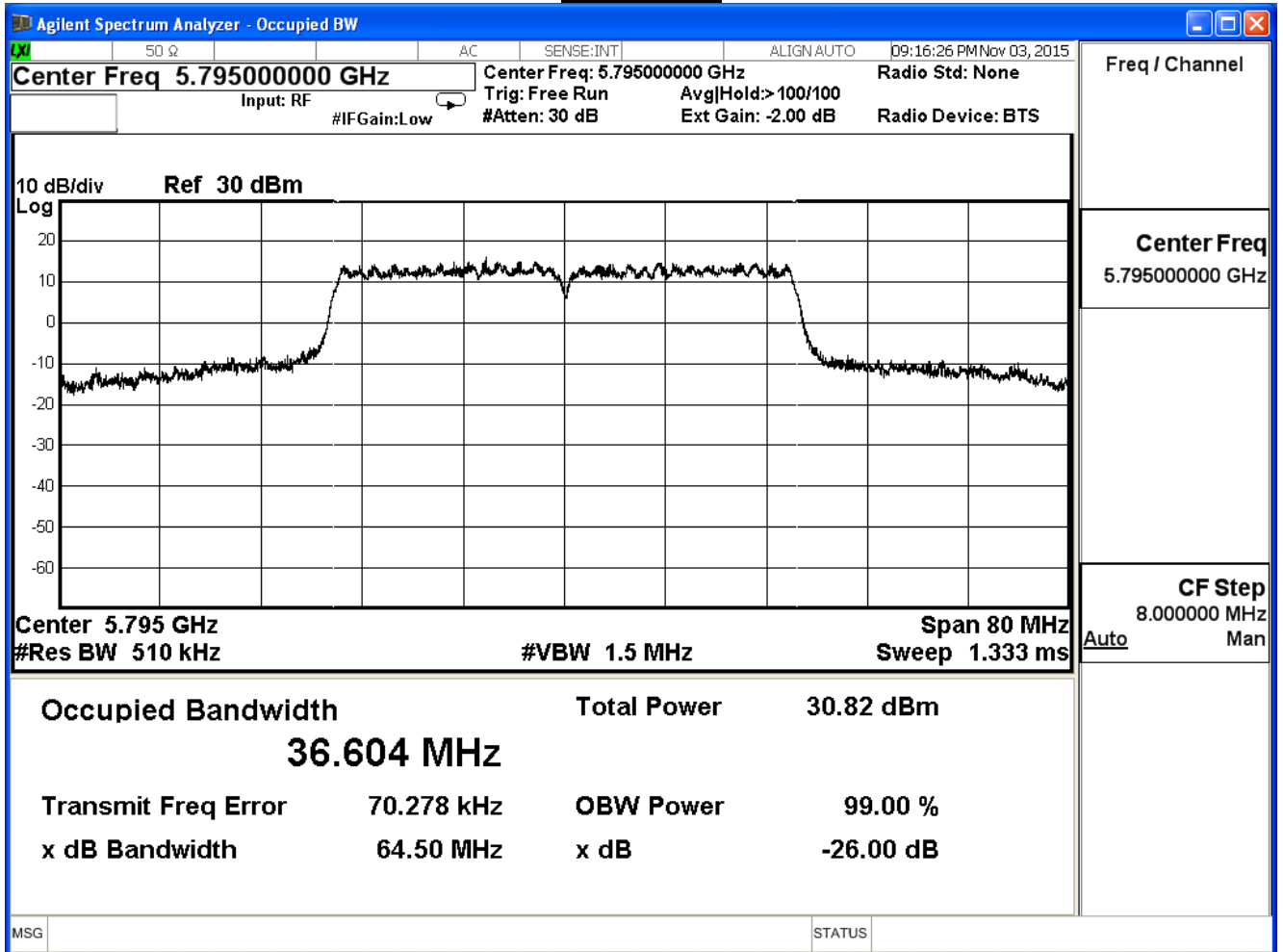
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 3)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
151	5755	36.482	56.02	--
159	5795	36.604	64.50	--

Channel 151



Channel 159

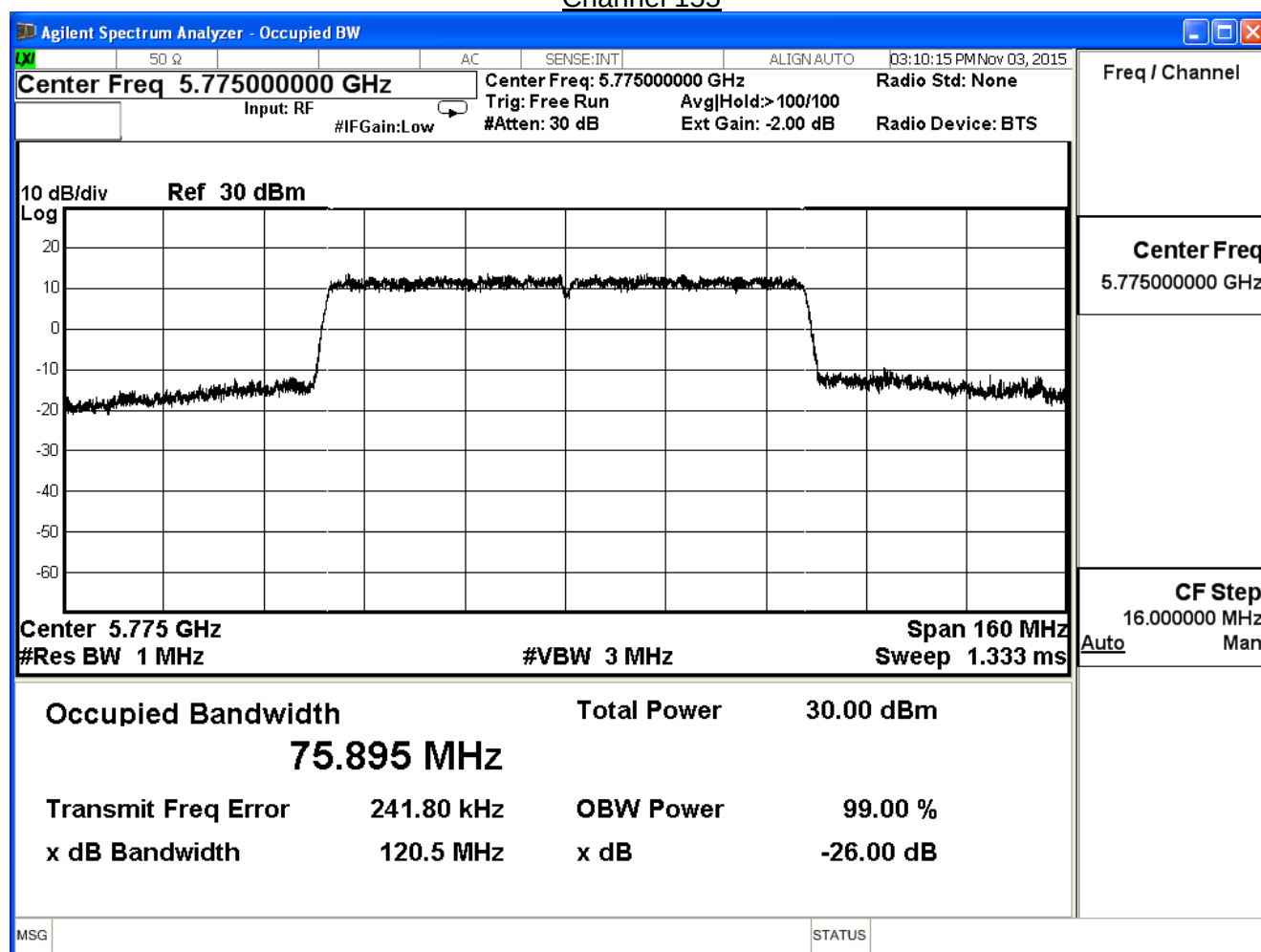


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 0)

Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
155	5775	75.895	120.5	--

Channel 155

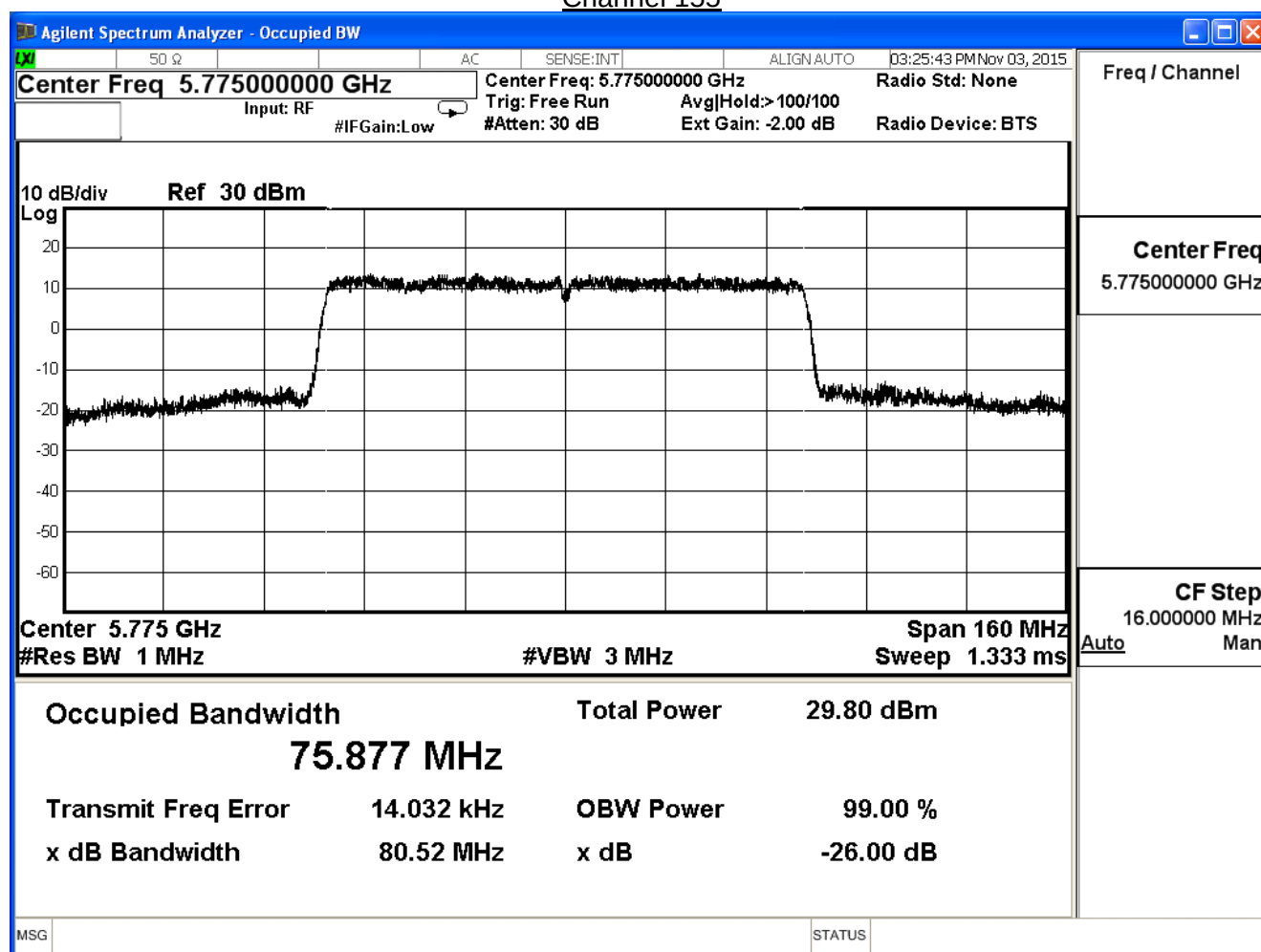


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 1)

Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
155	5775	75.877	80.52	--

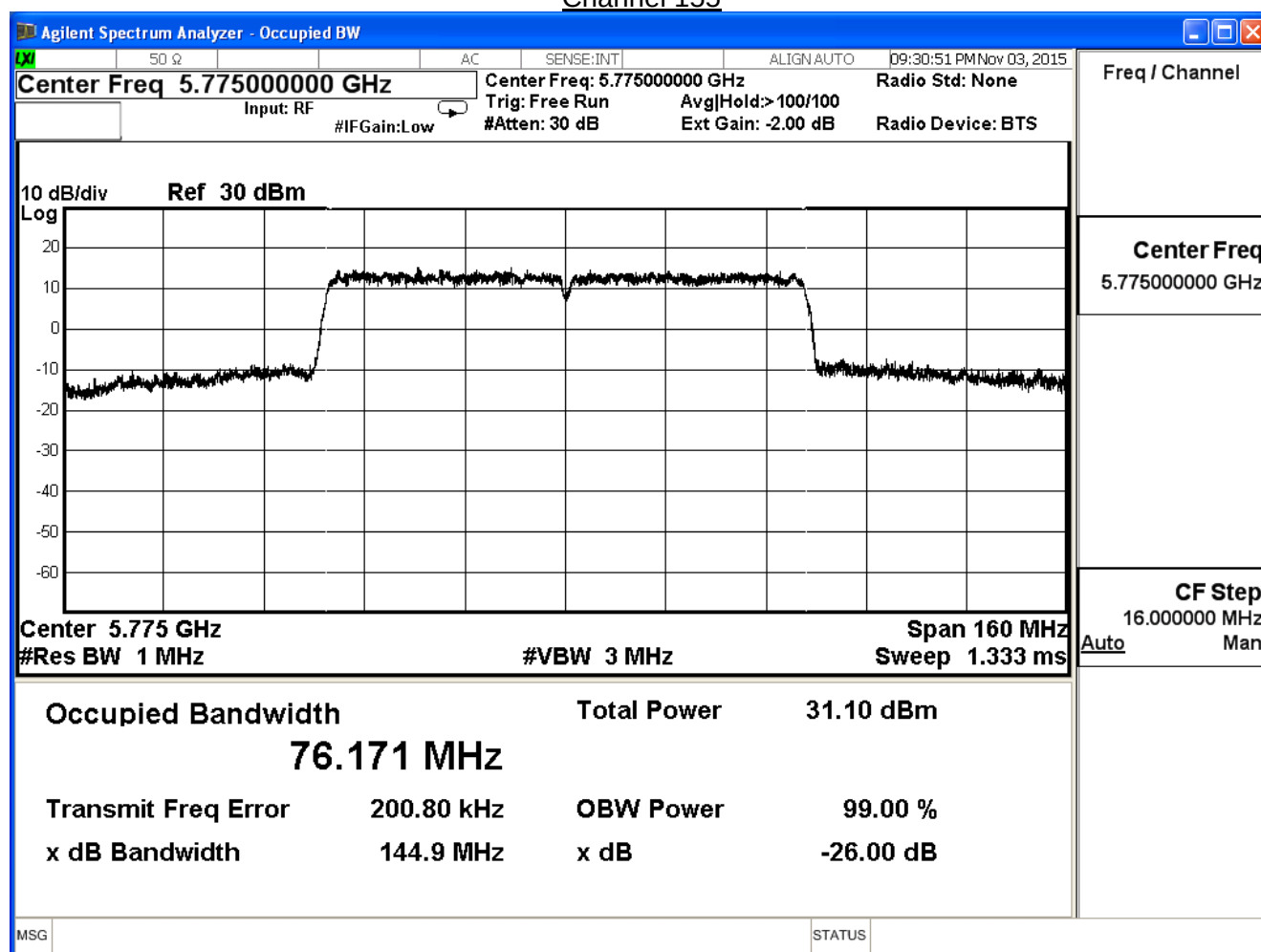
Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 2)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
155	5775	76.171	144.9	--

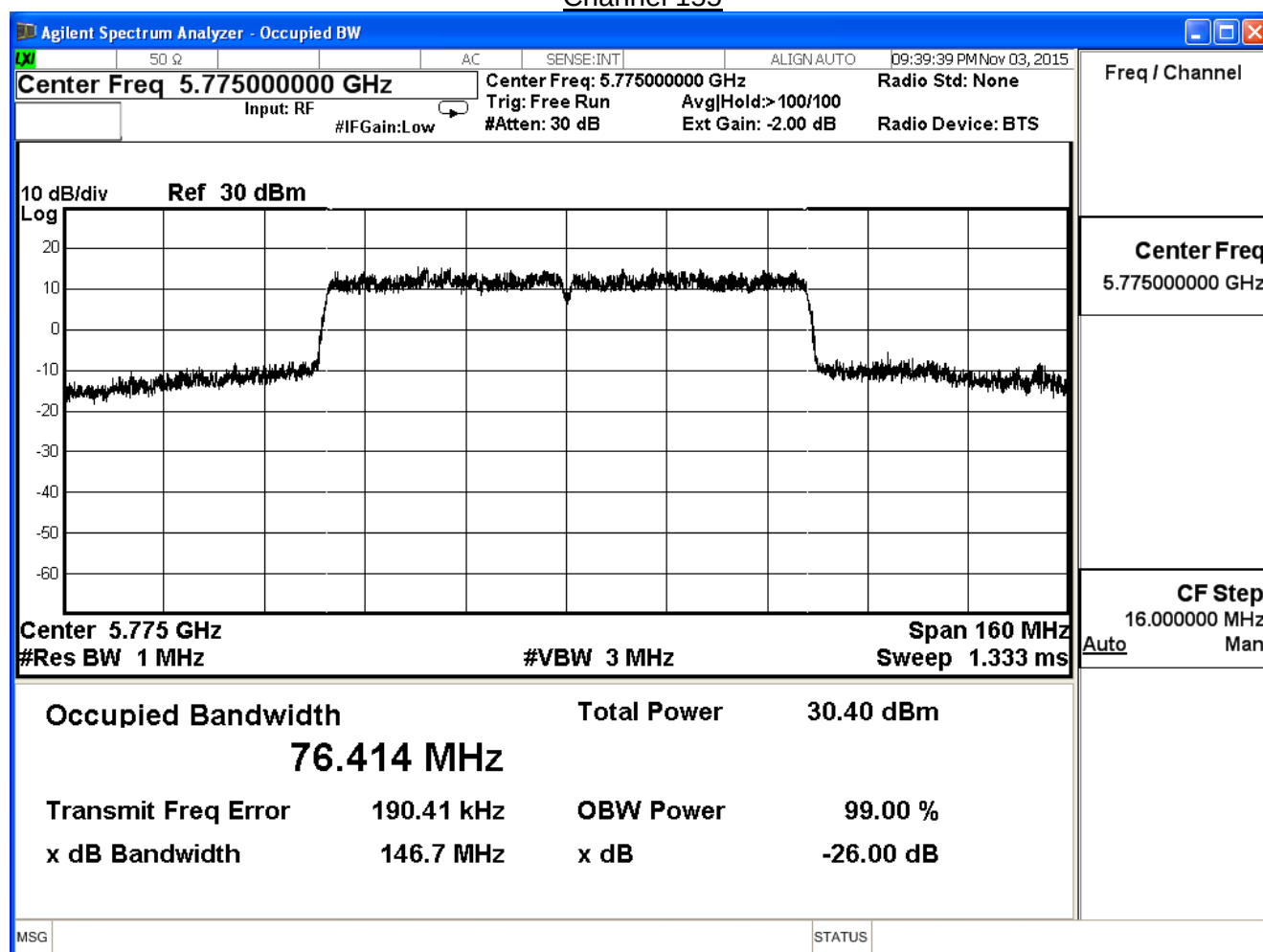
Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 3)				
Channel No.	Frequency (MHz)	99% BW Measure Level (MHz)	26dB BW Measure Level (MHz)	Limit (MHz)
155	5775	76.414	146.7	--

Channel 155

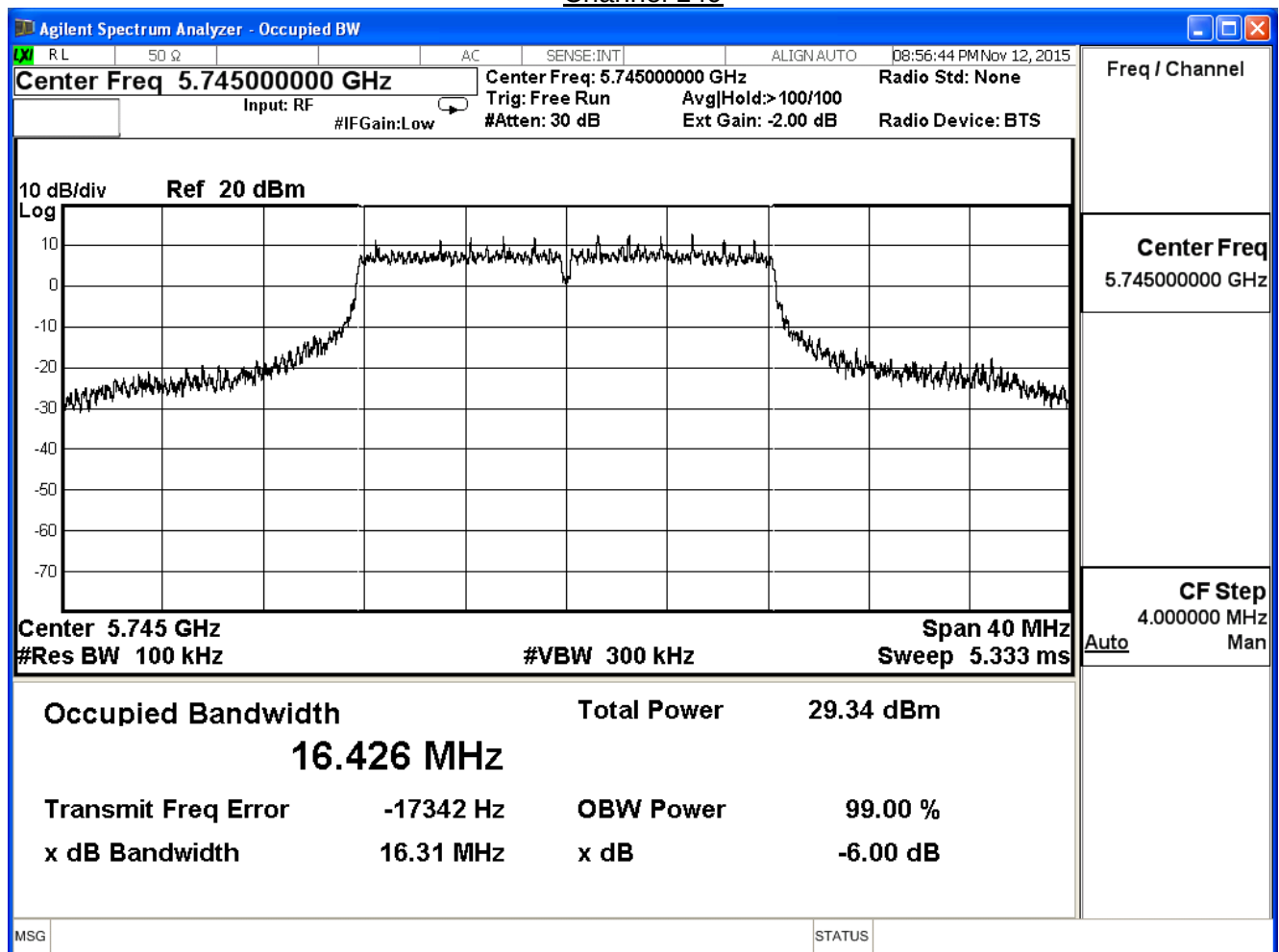


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

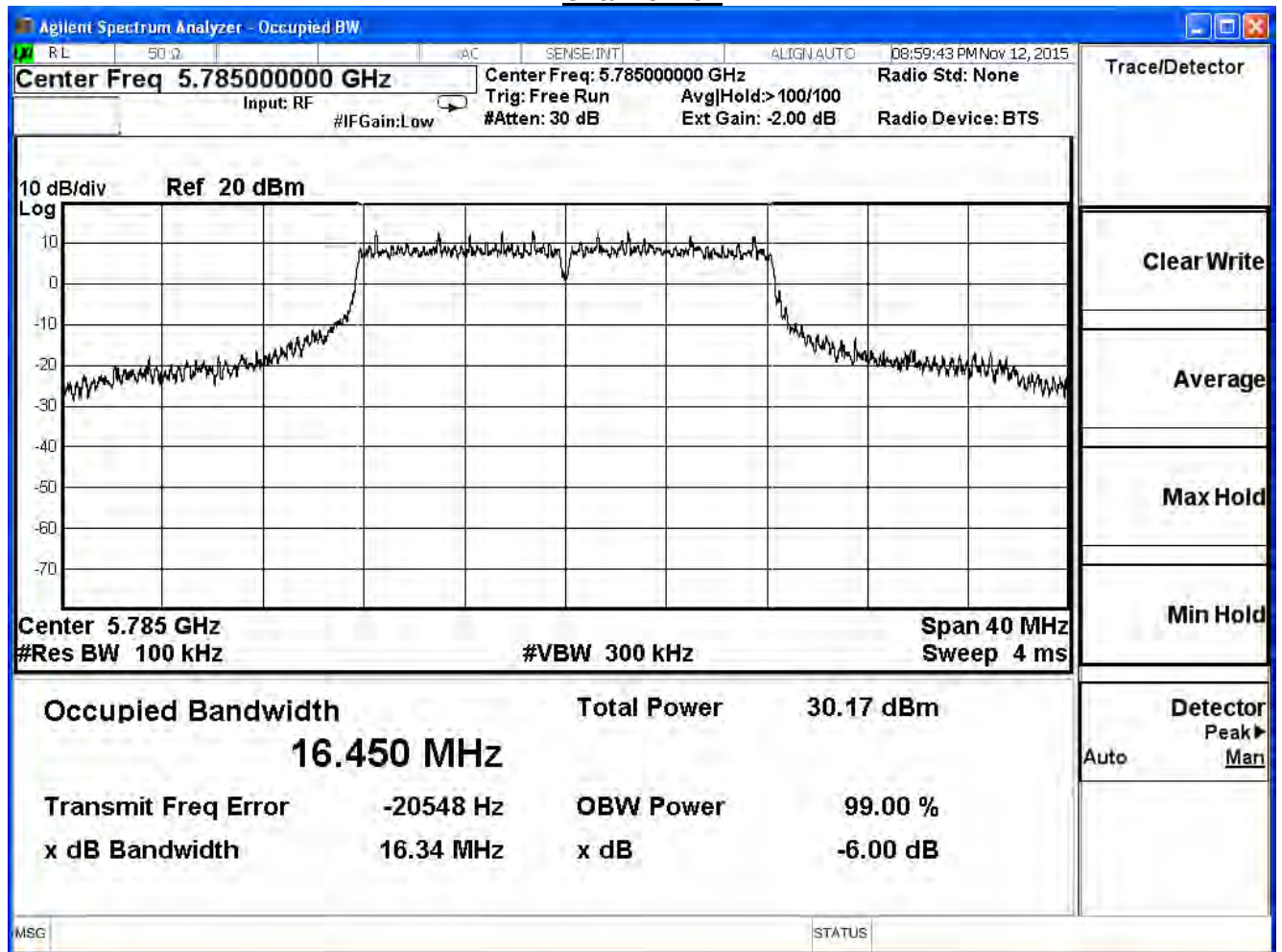
802.11 a (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.310	≥ 0.5	Pass
157	5785	16.340	≥ 0.5	Pass
165	5825	16.320	≥ 0.5	Pass

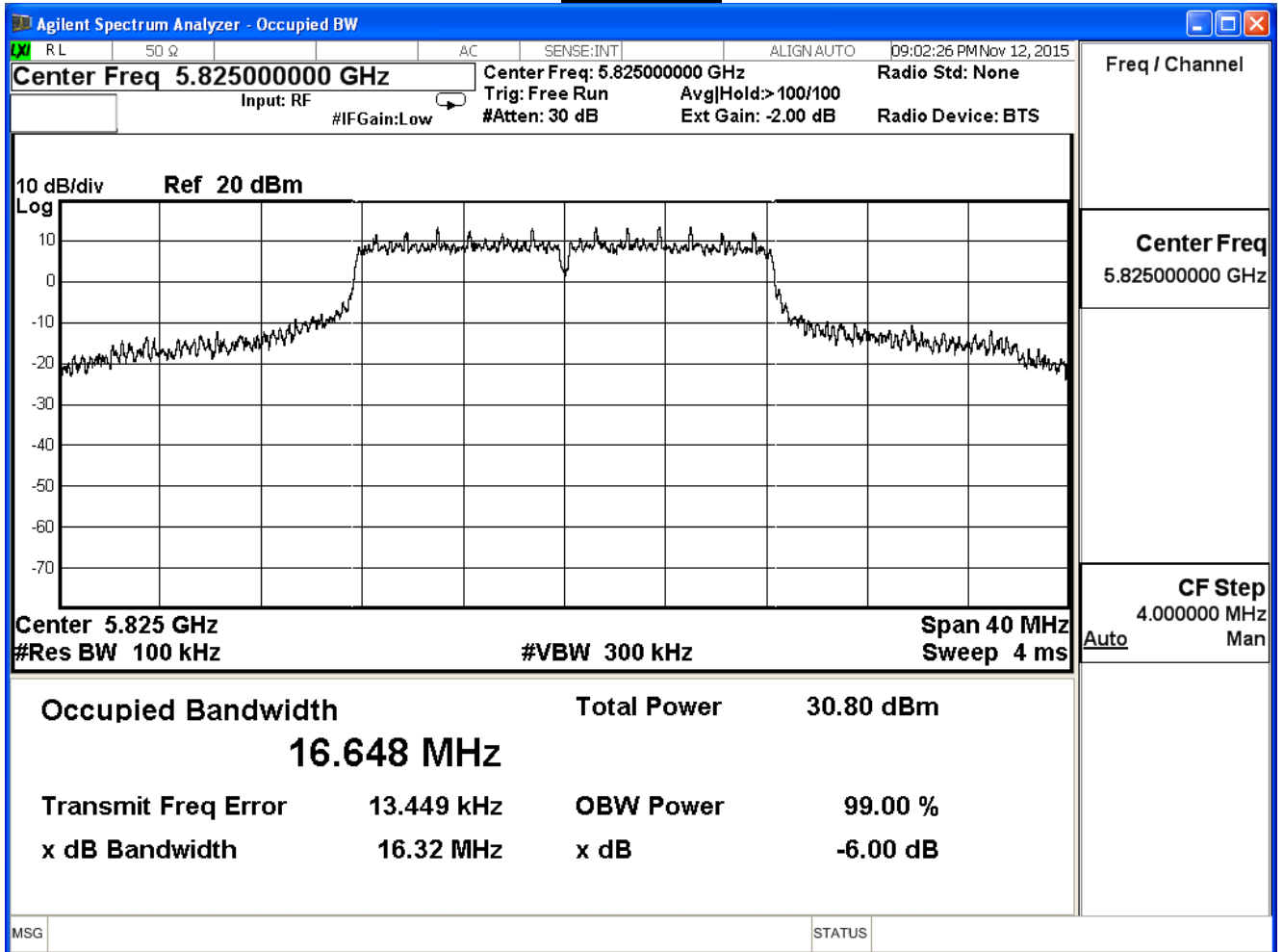
Channel 149



Channel 157



Channel 165

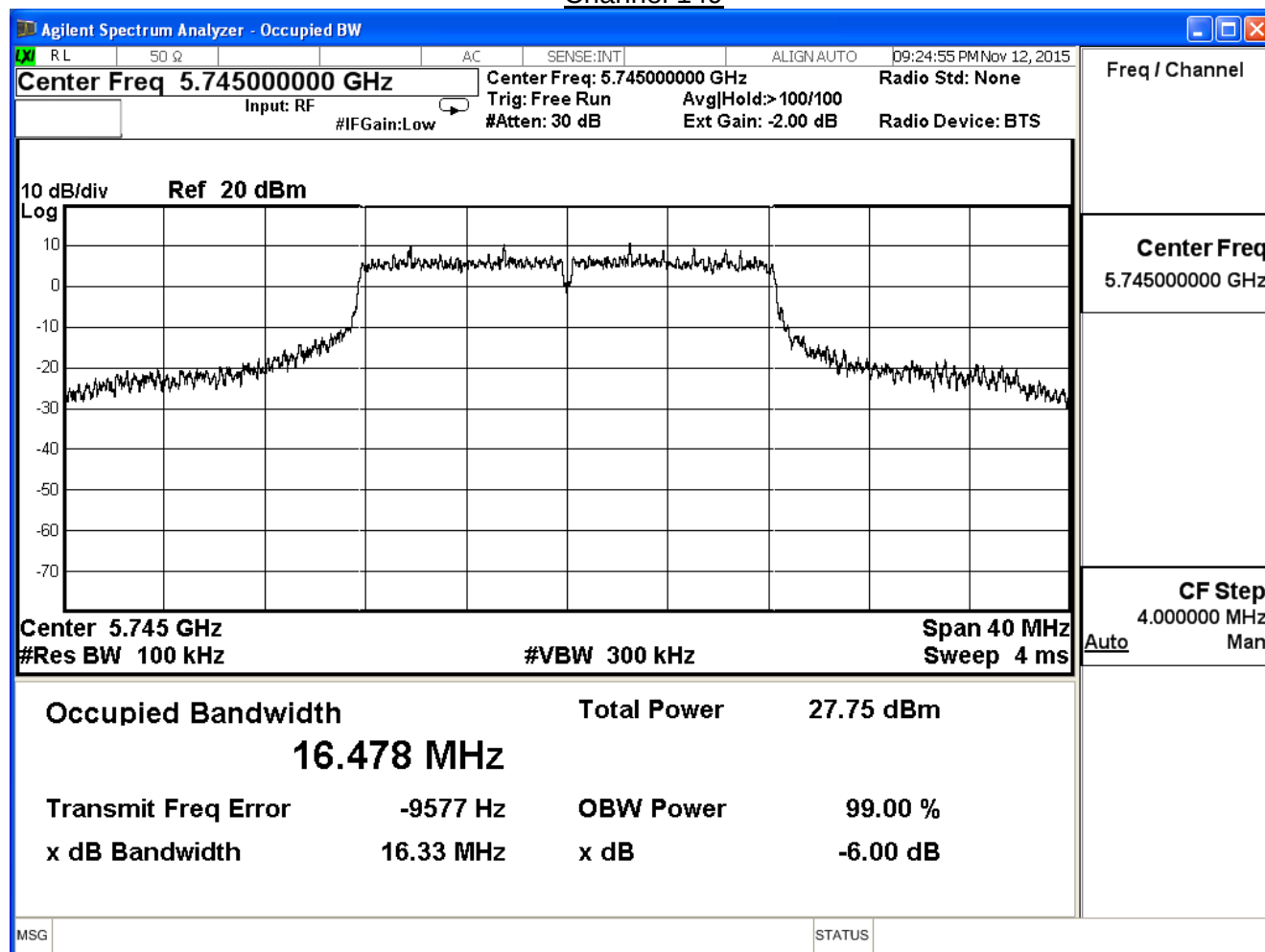


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

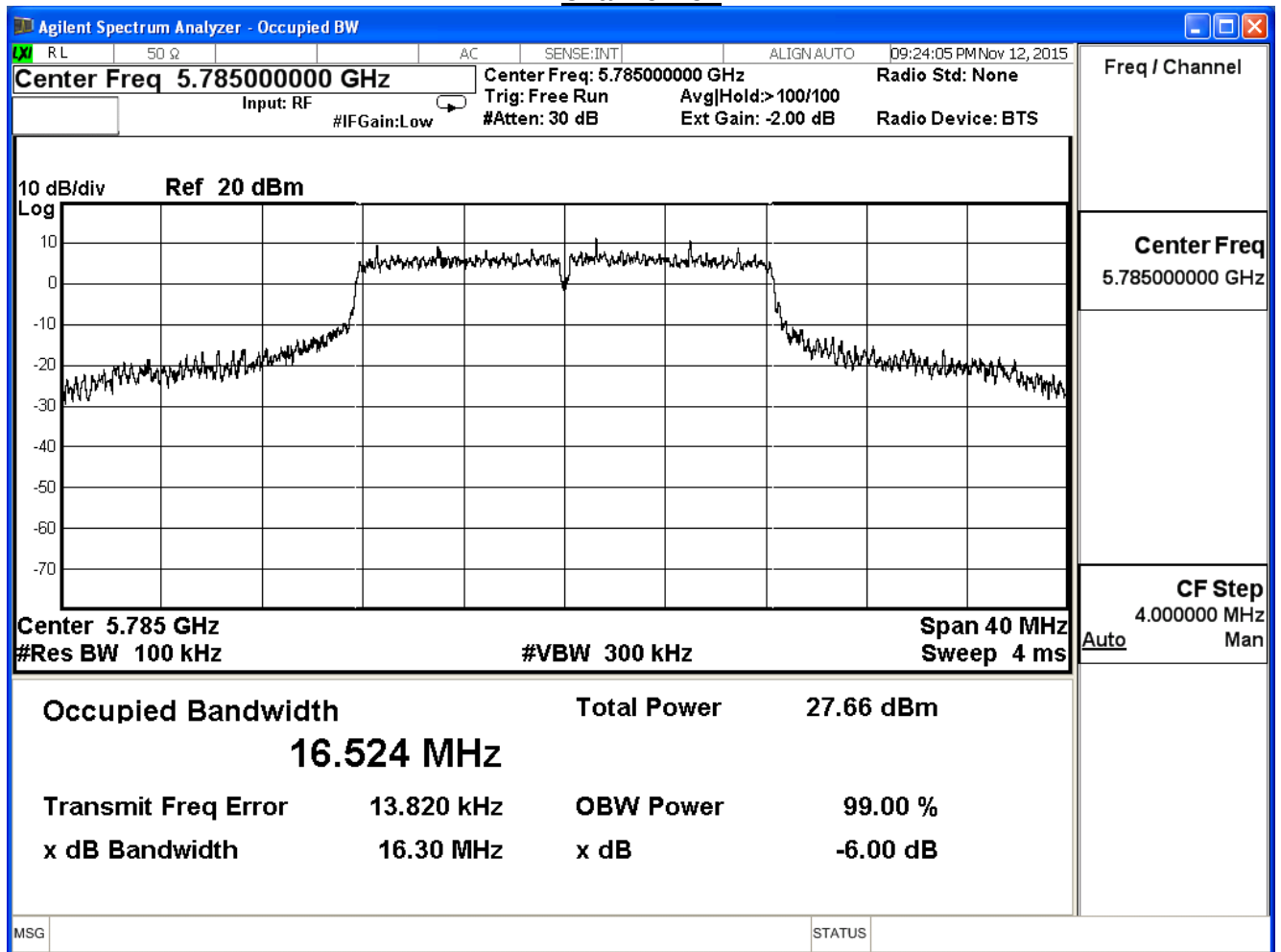
802.11 a (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.330	≥ 0.5	Pass
157	5785	16.300	≥ 0.5	Pass
165	5825	16.320	≥ 0.5	Pass

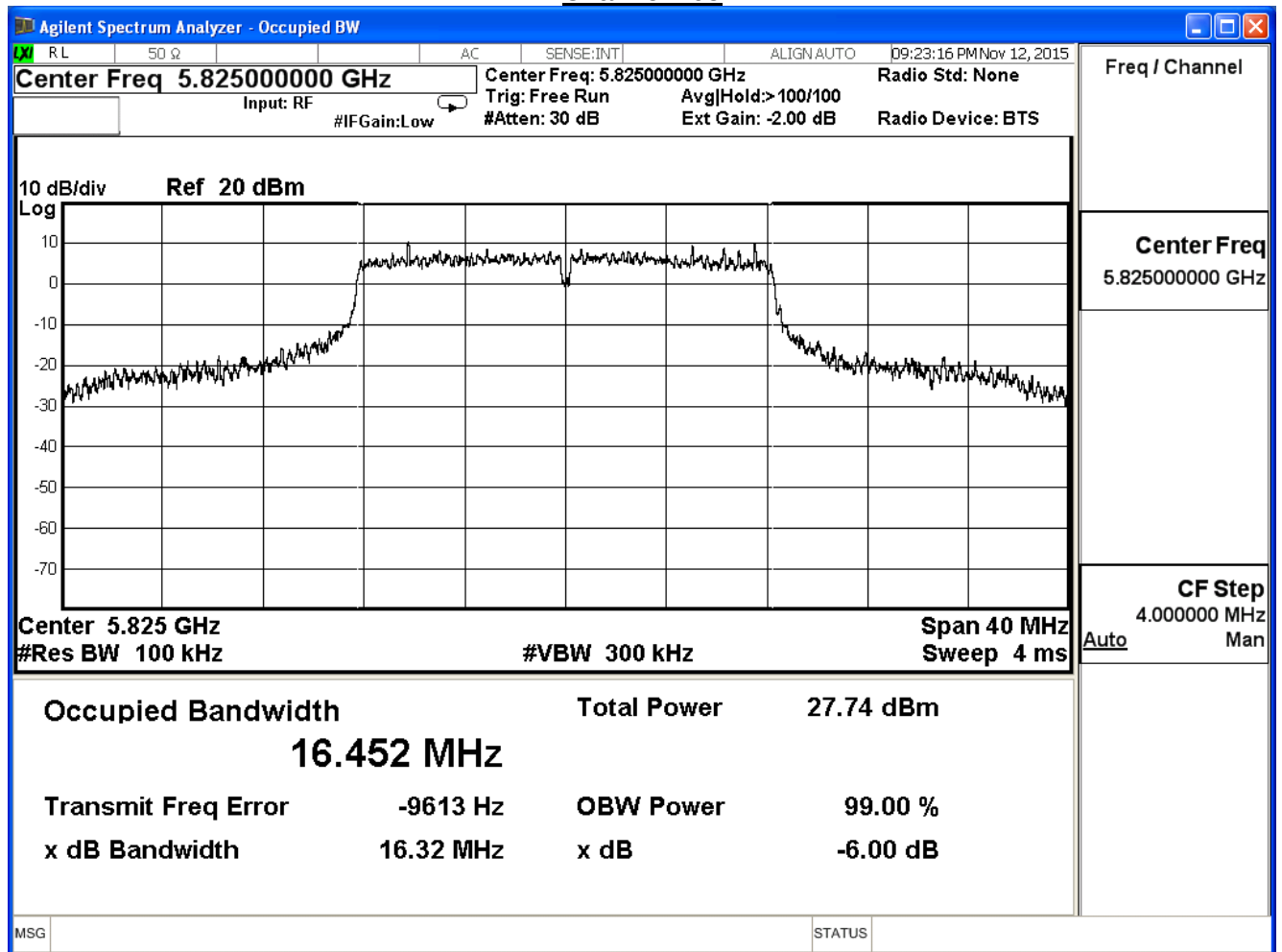
Channel 149



Channel 157



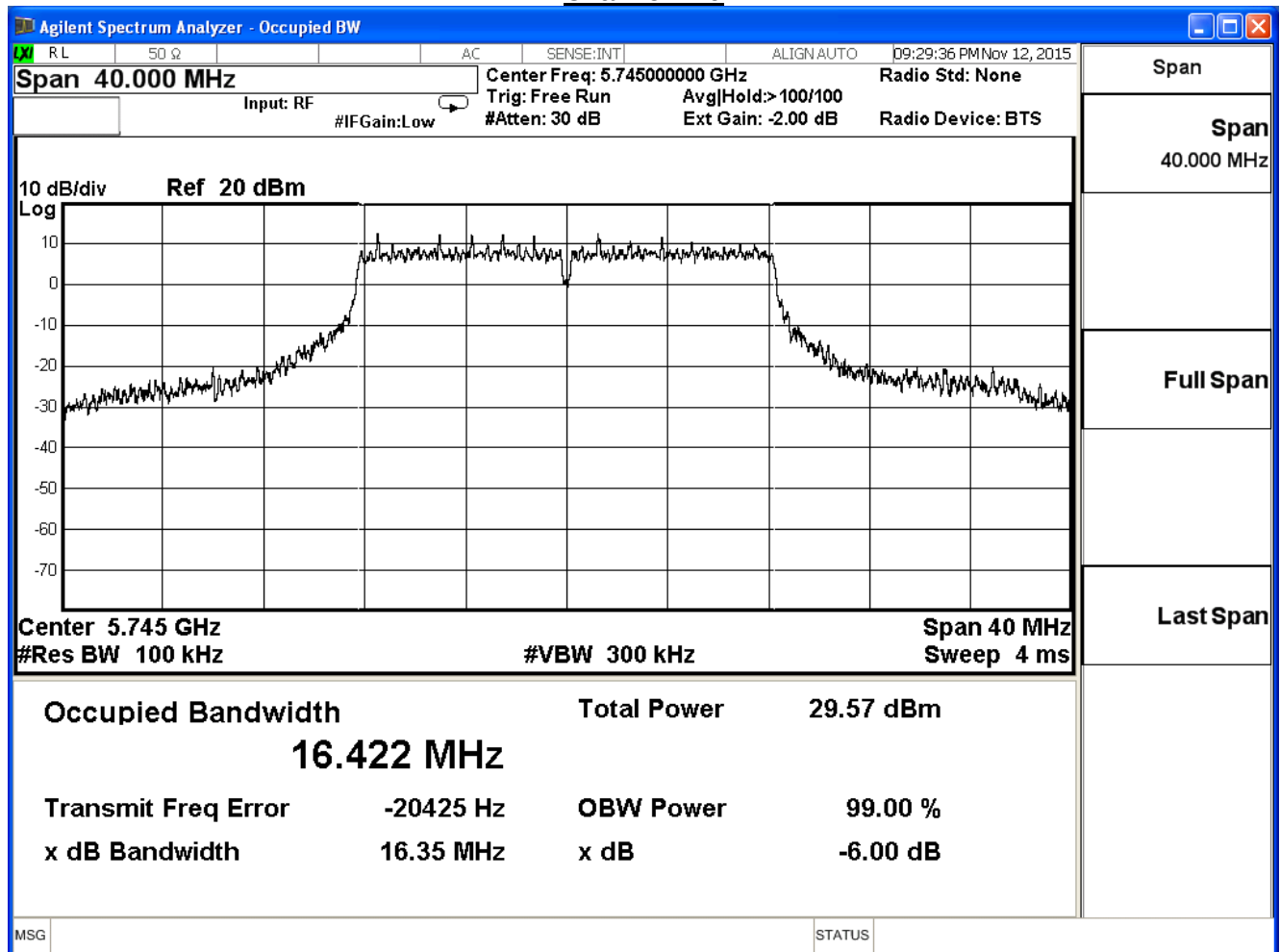
Channel 165



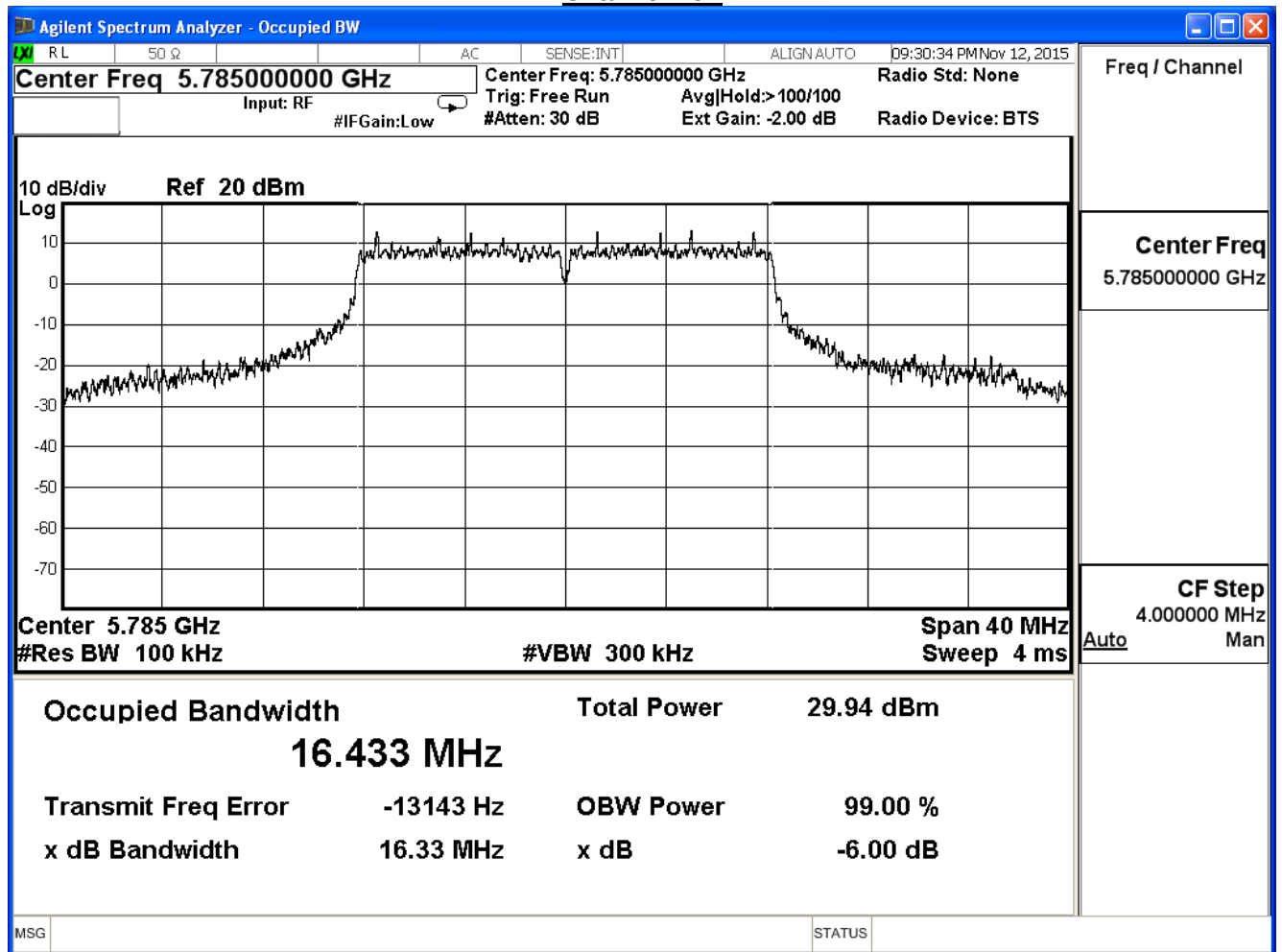
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

802.11 a (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.350	≥ 0.5	Pass
157	5785	16.330	≥ 0.5	Pass
165	5825	16.330	≥ 0.5	Pass

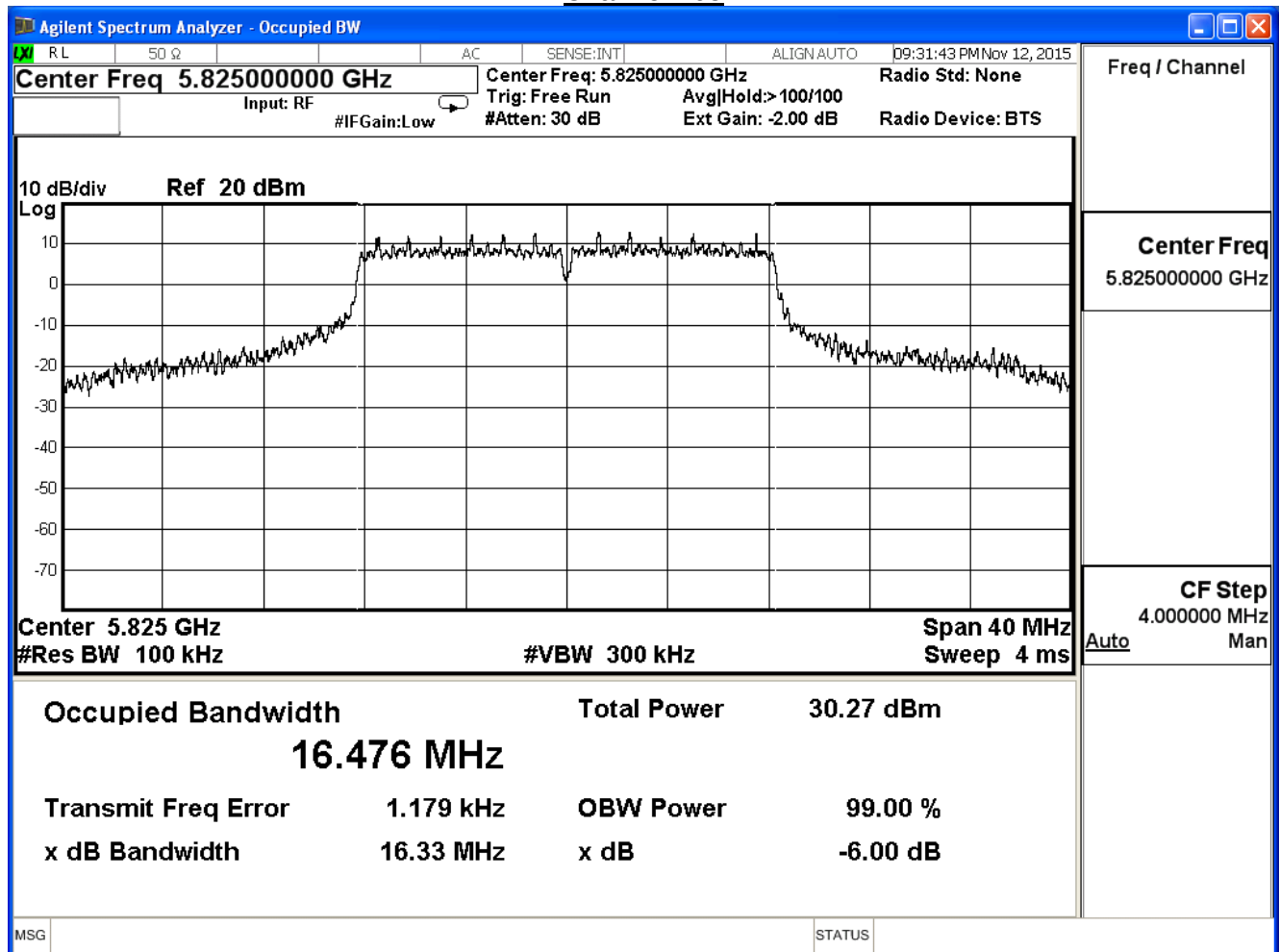
Channel 149



Channel 157



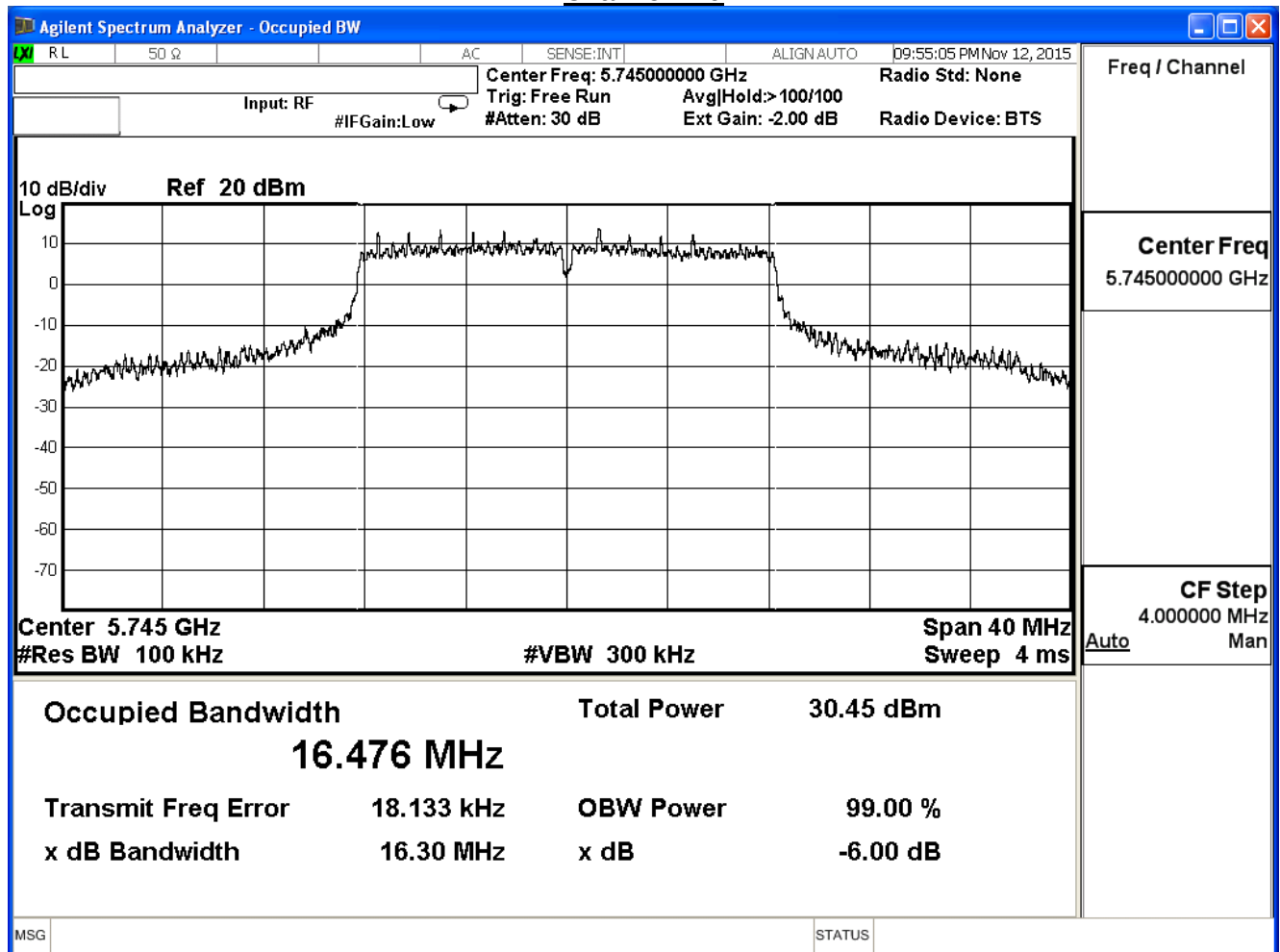
Channel 165



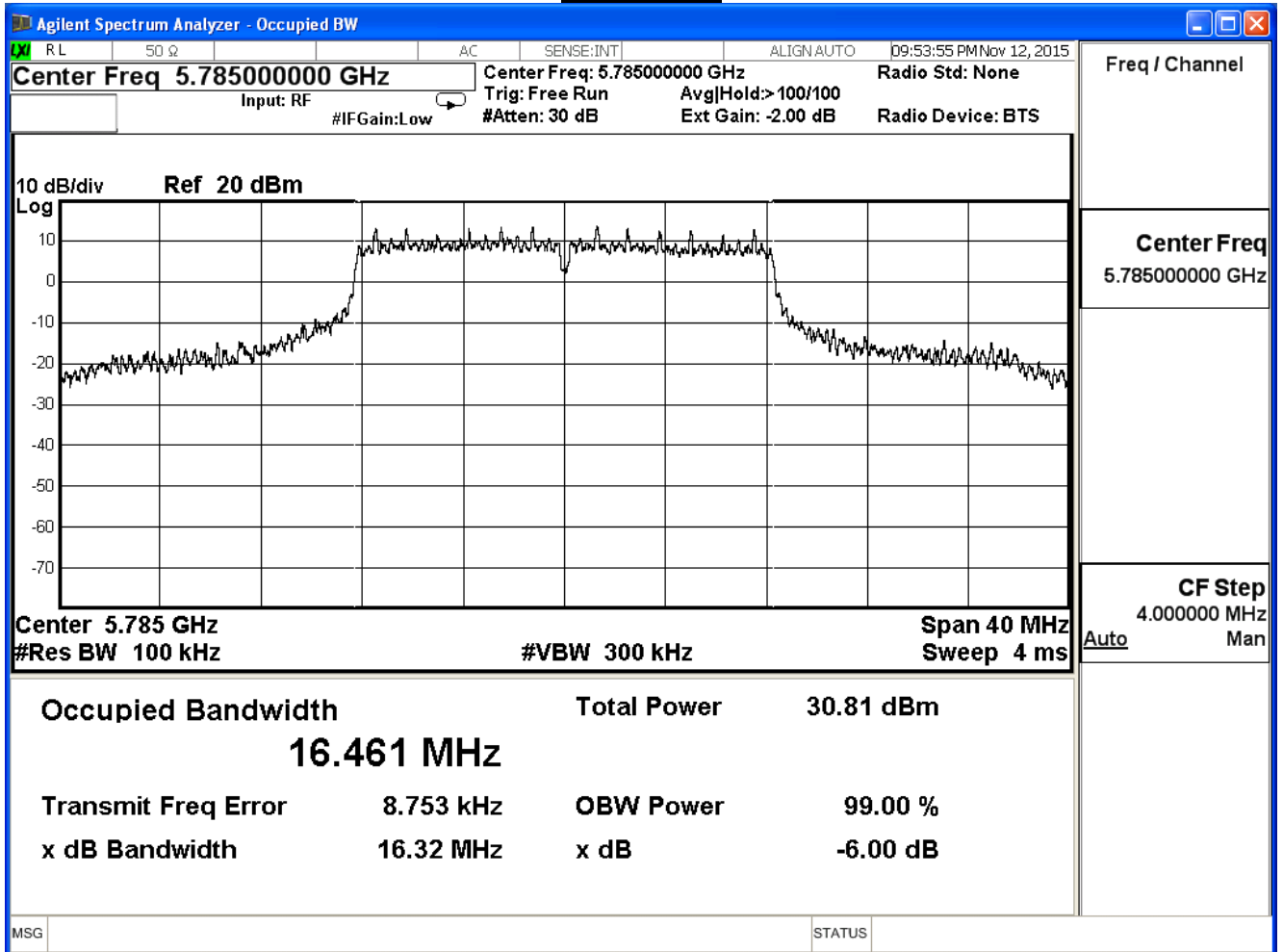
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

802.11 a (ANT3)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.300	≥ 0.5	Pass
157	5785	16.320	≥ 0.5	Pass
165	5825	16.310	≥ 0.5	Pass

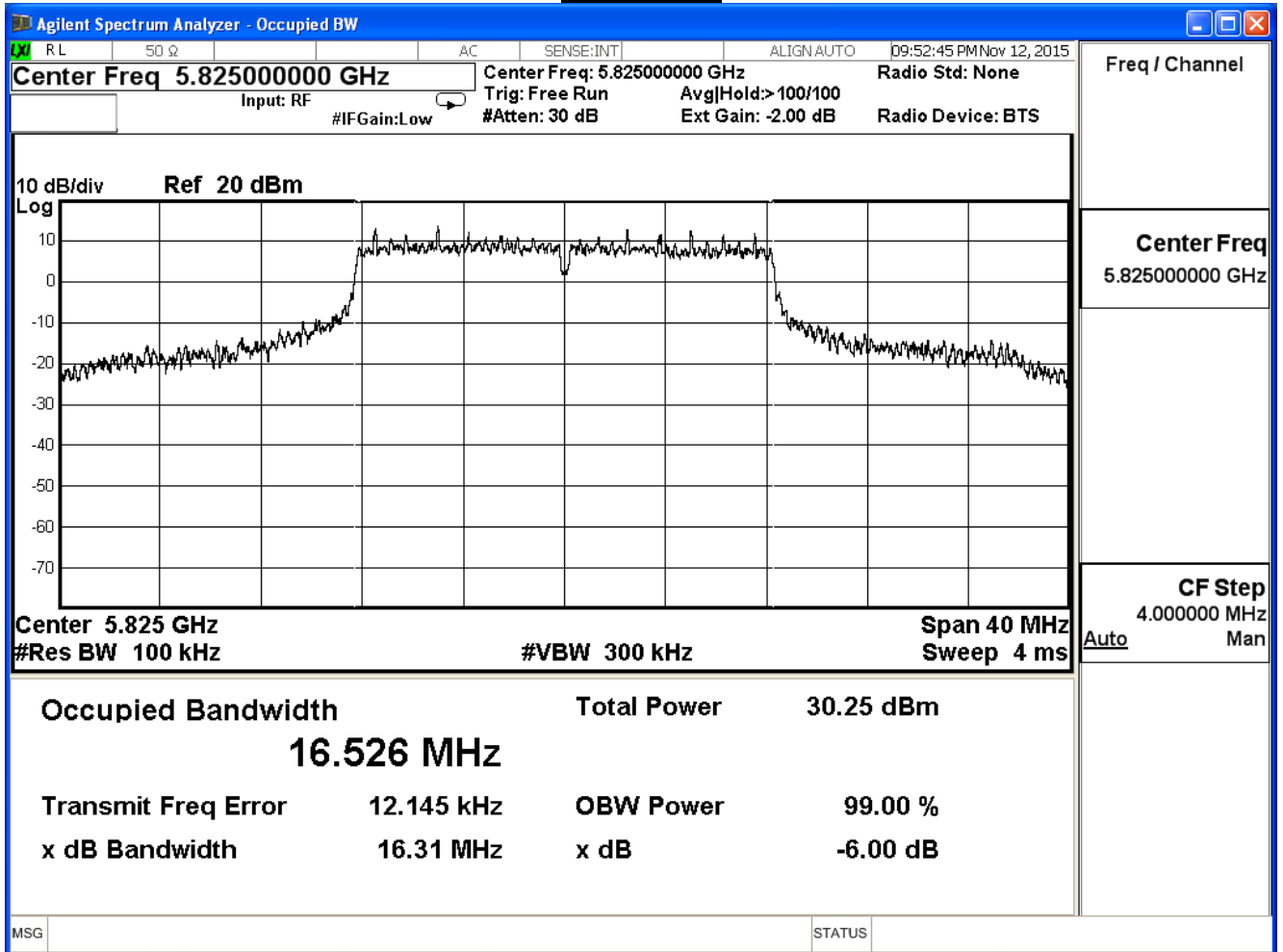
Channel 149



Channel 157



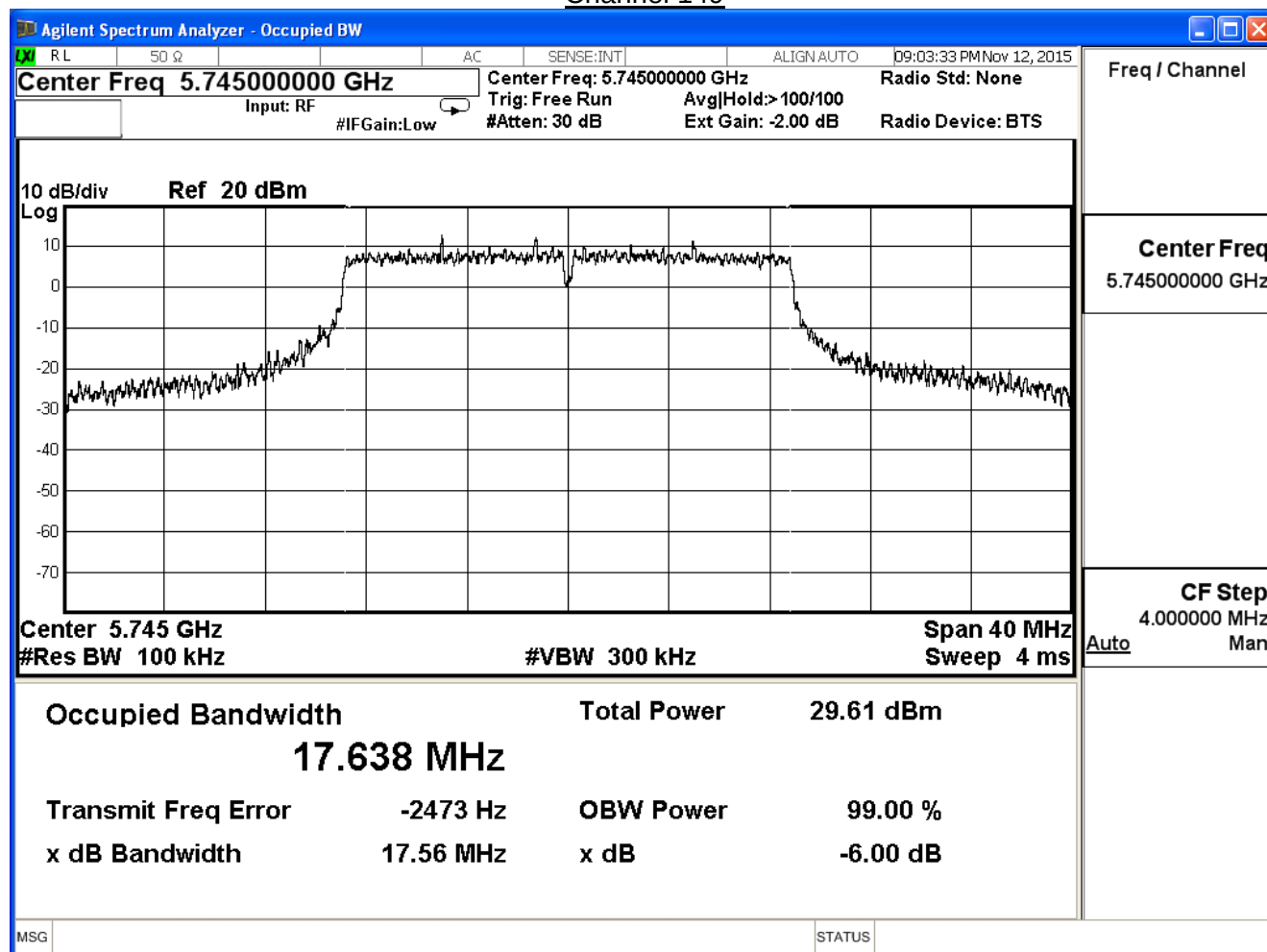
Channel 165



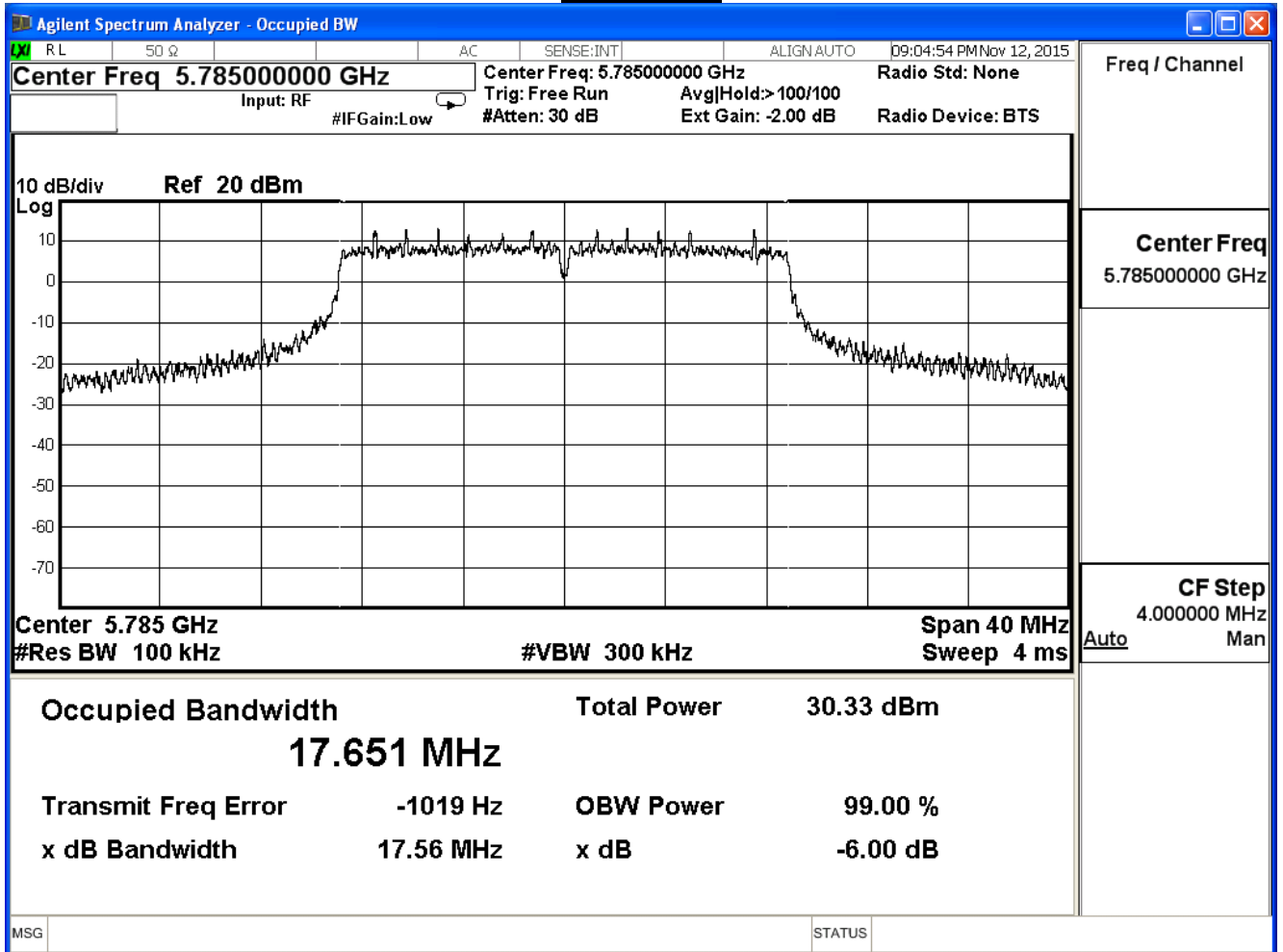
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	17.560	≥ 0.5	Pass
157	5785	17.560	≥ 0.5	Pass
165	5825	17.580	≥ 0.5	Pass

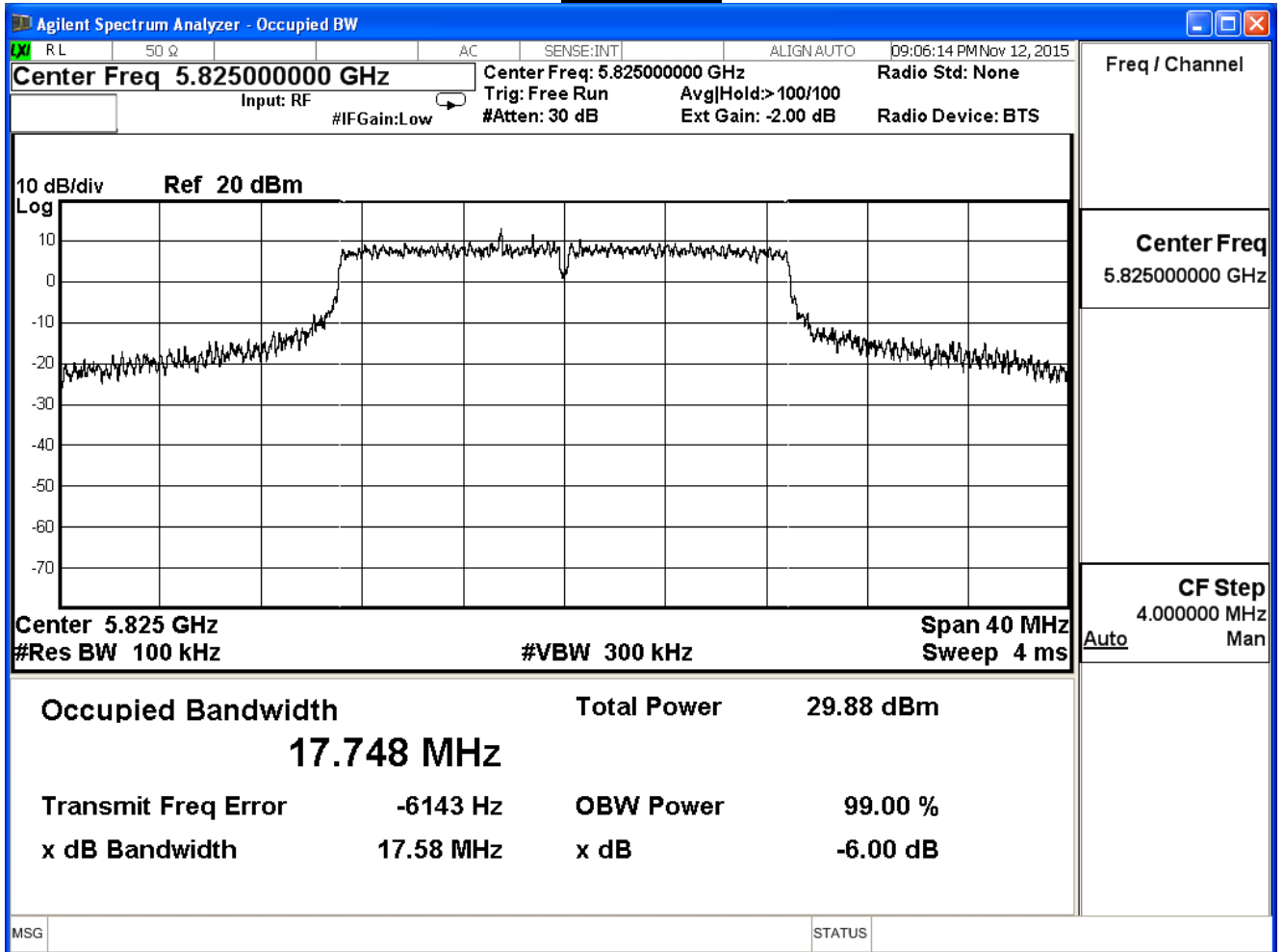
Channel 149



Channel 157



Channel 165

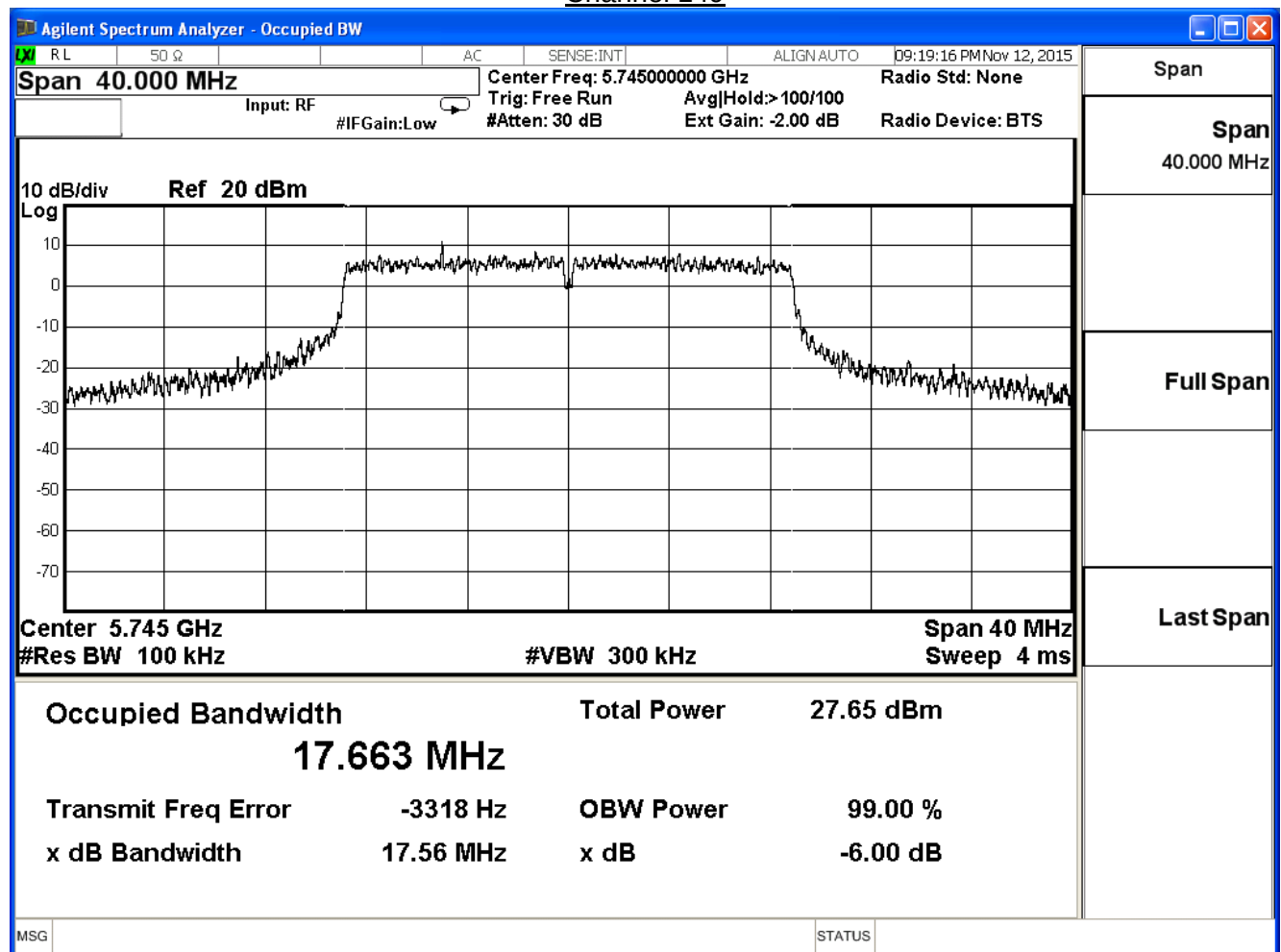


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

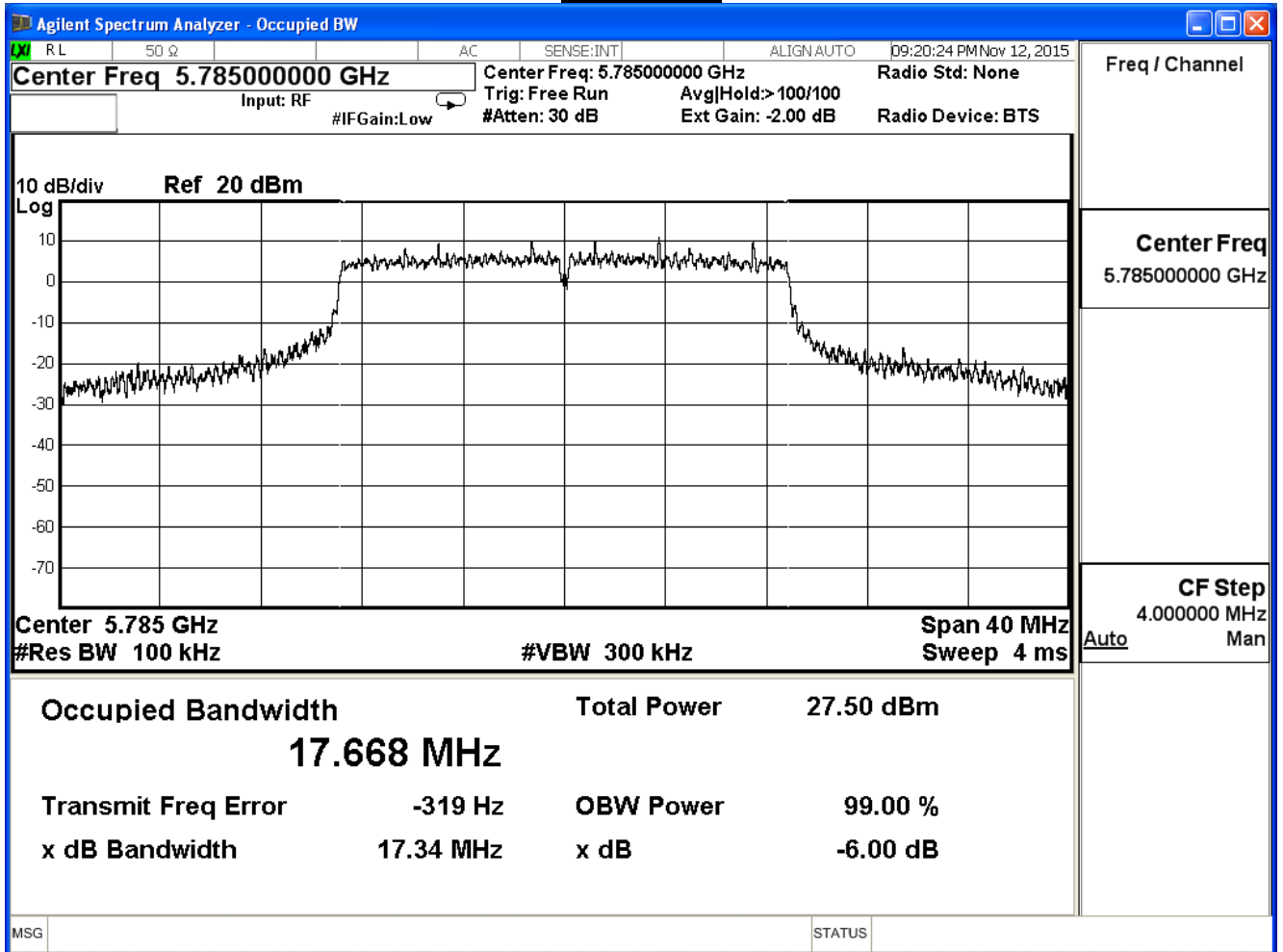
IEEE 802.11n (20MHz)(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	17.560	≥ 0.5	Pass
157	5785	17.340	≥ 0.5	Pass
165	5825	17.230	≥ 0.5	Pass

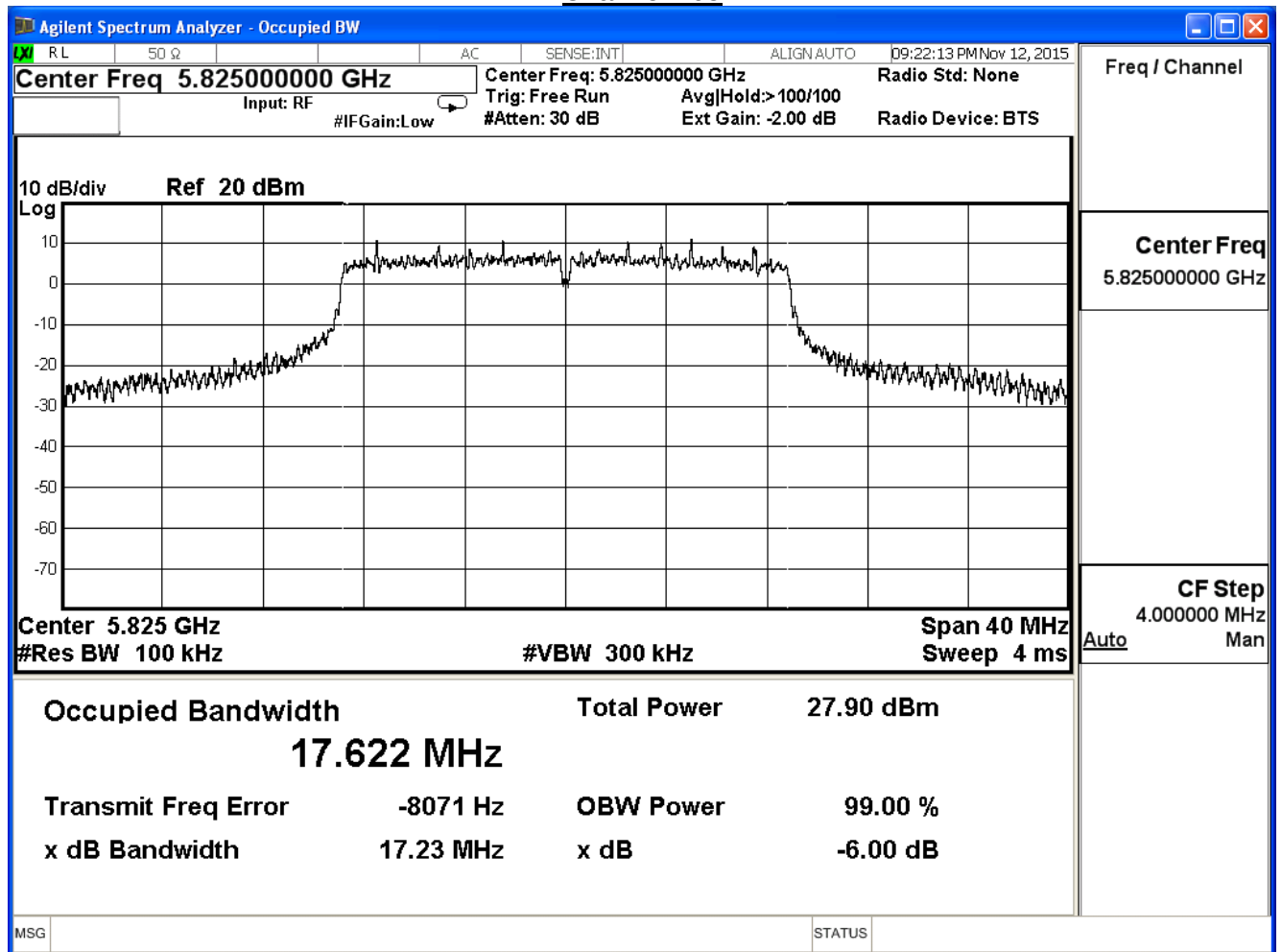
Channel 149



Channel 157



Channel 165

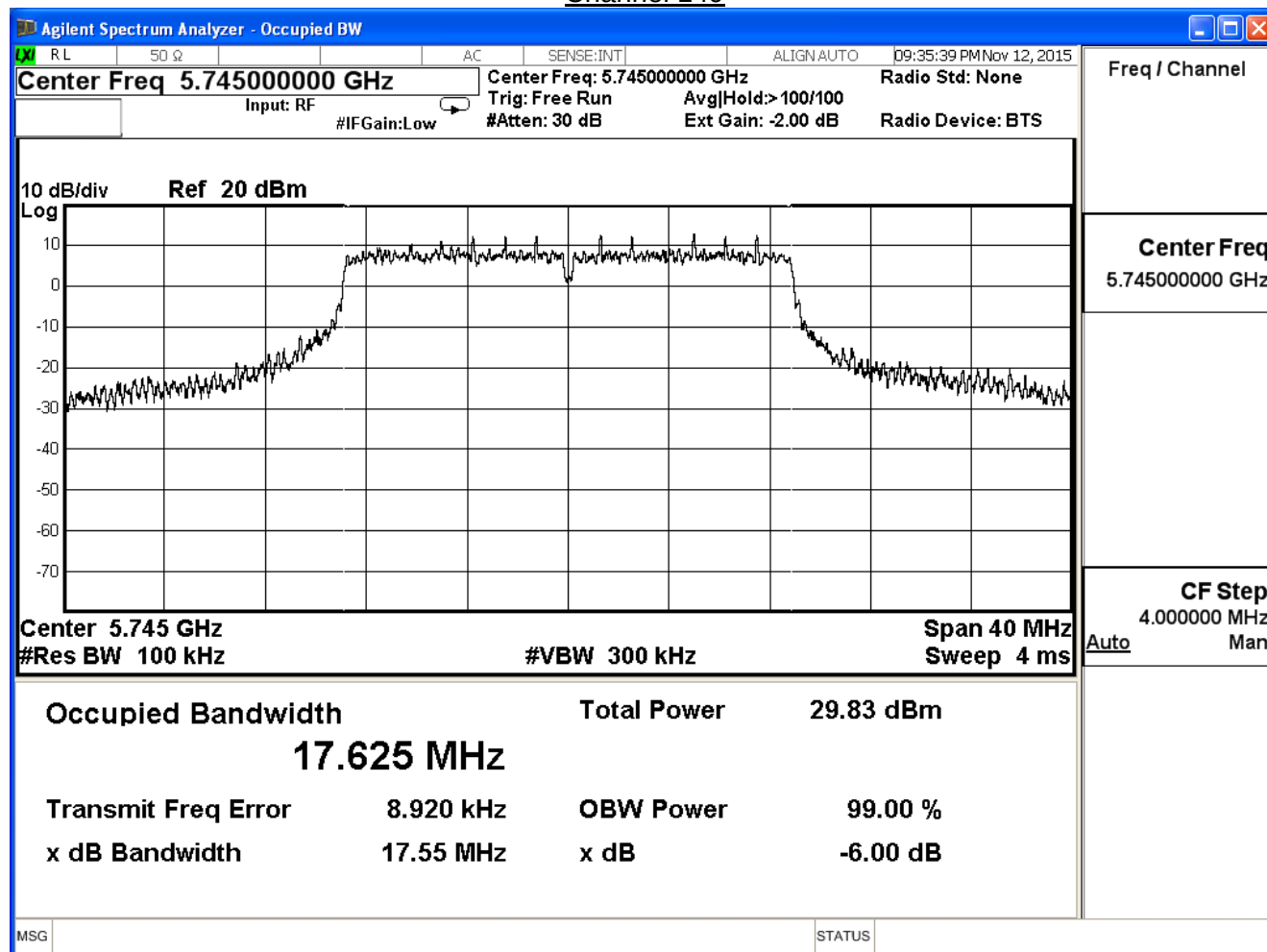


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

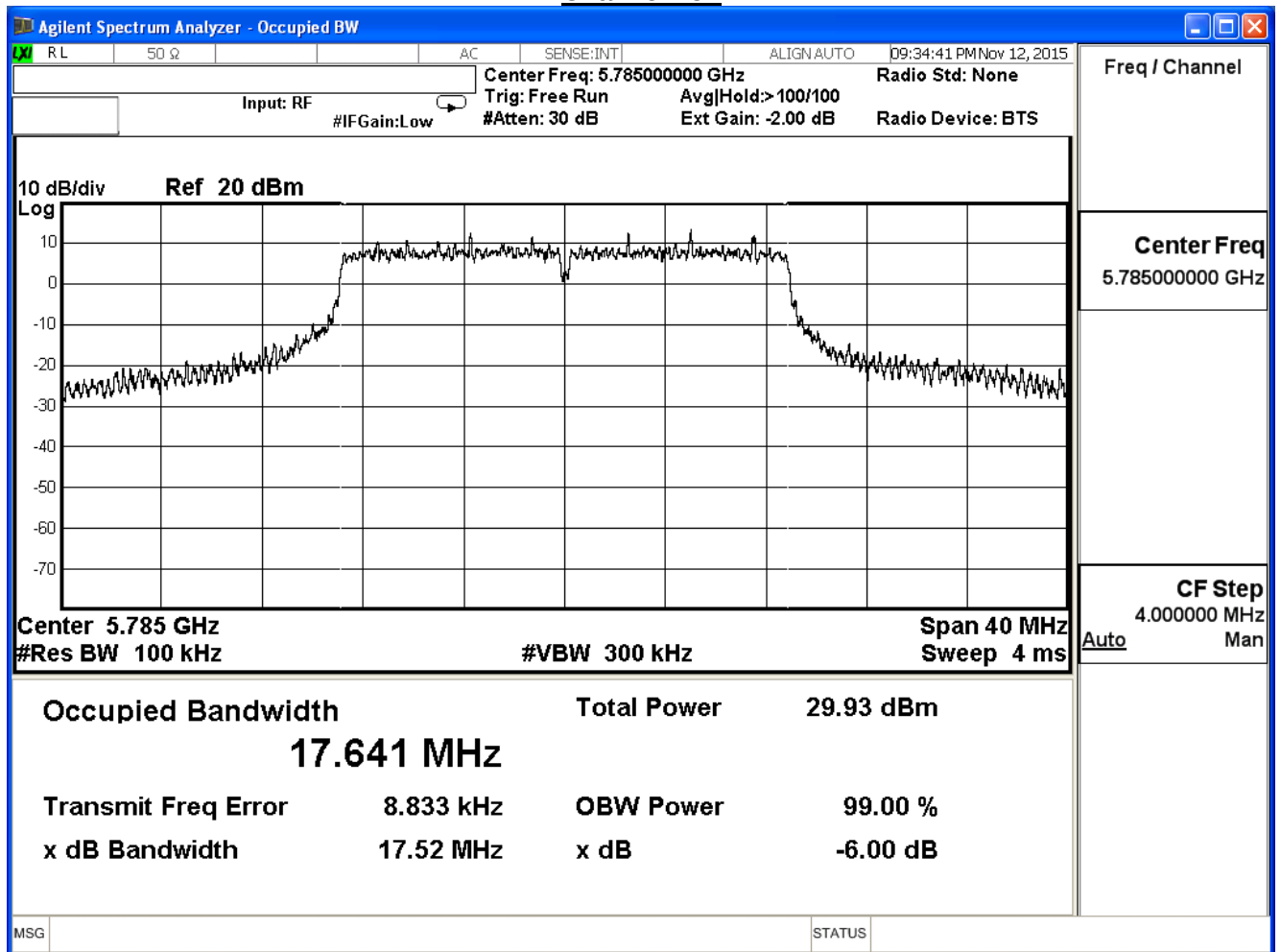
IEEE 802.11n (20MHz)(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	17.550	≥ 0.5	Pass
157	5785	17.520	≥ 0.5	Pass
165	5825	17.570	≥ 0.5	Pass

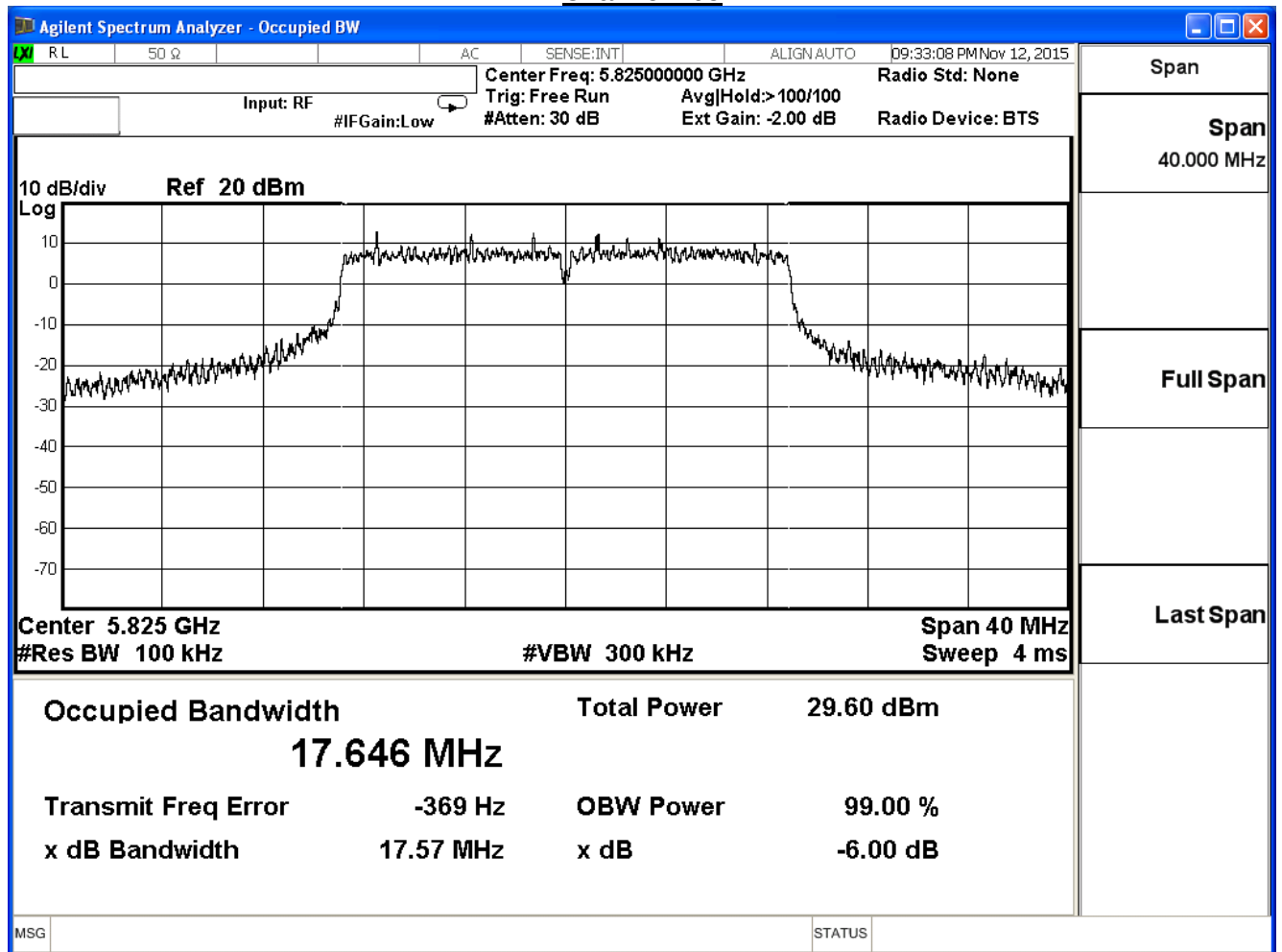
Channel 149



Channel 157



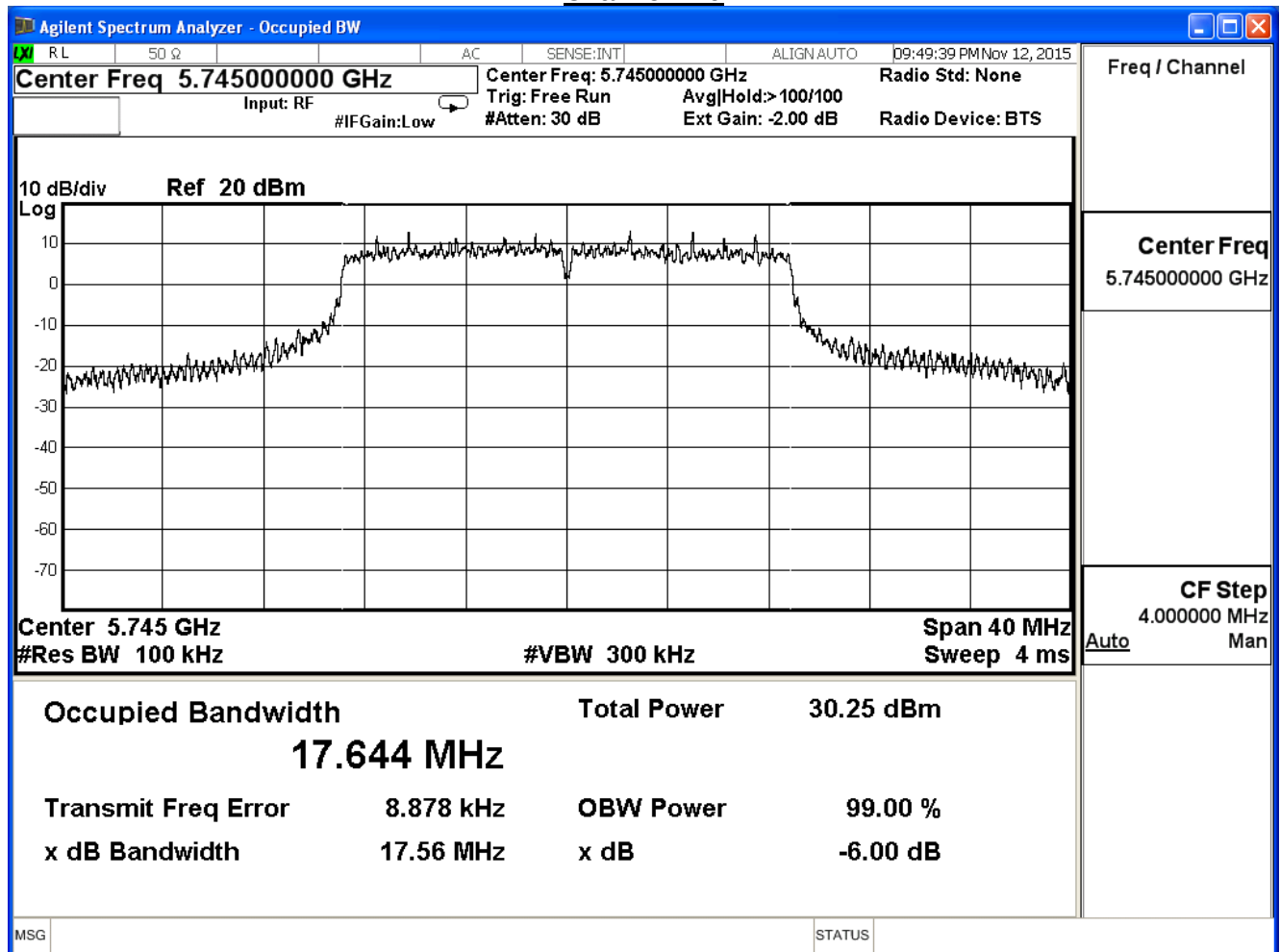
Channel 165



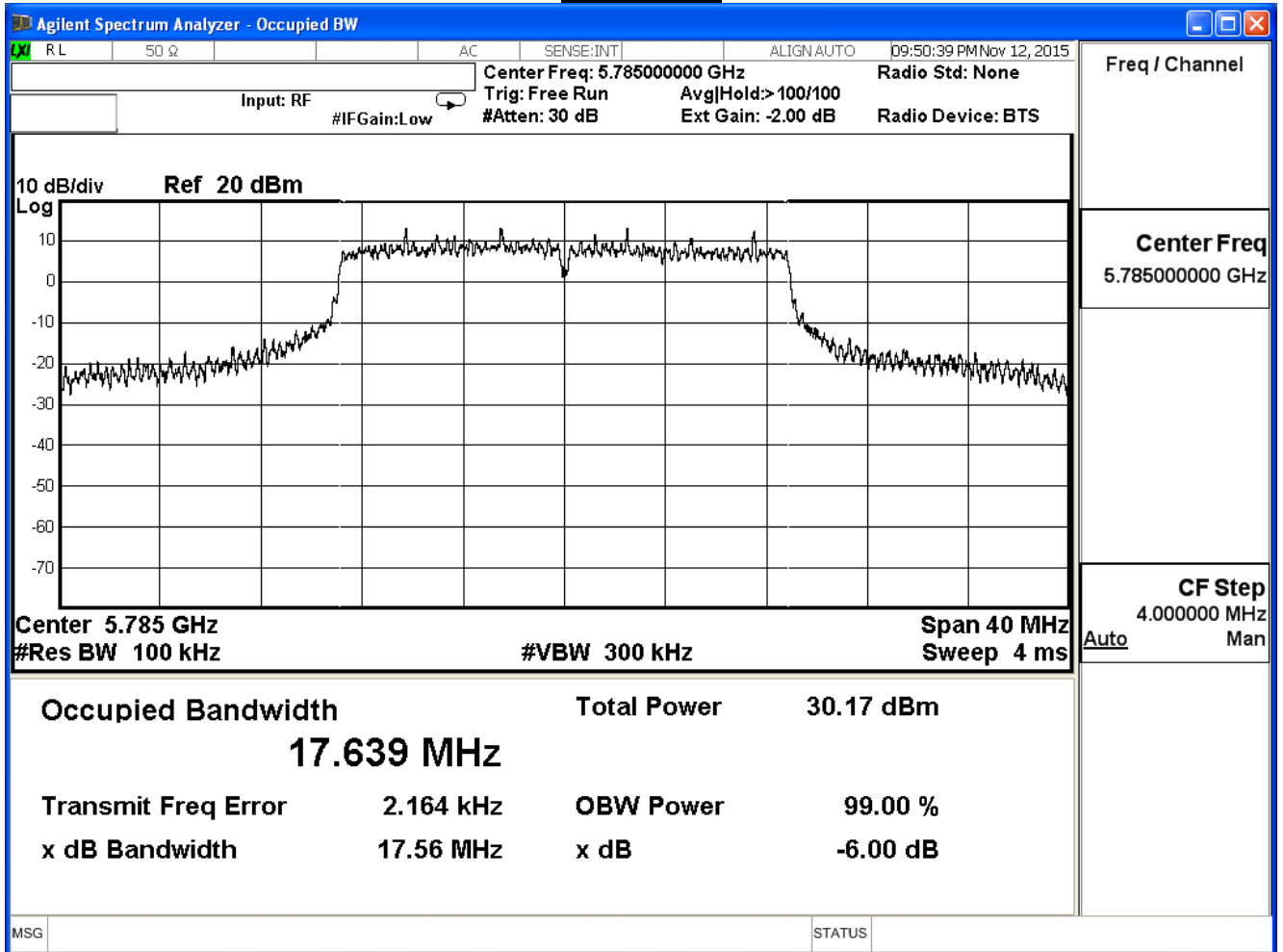
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	17.560	≥ 0.5	Pass
157	5785	17.560	≥ 0.5	Pass
165	5825	17.560	≥ 0.5	Pass

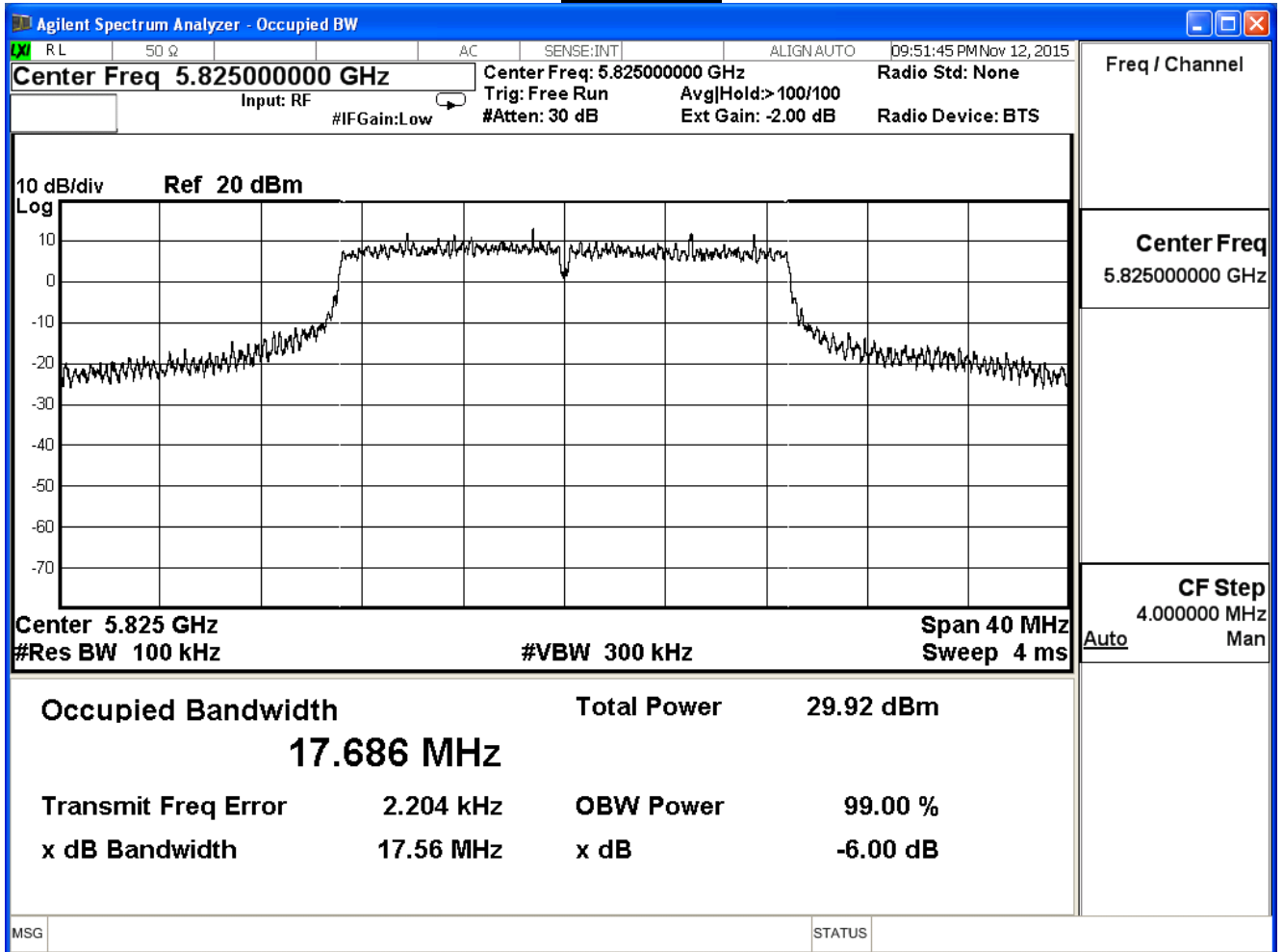
Channel 149



Channel 157



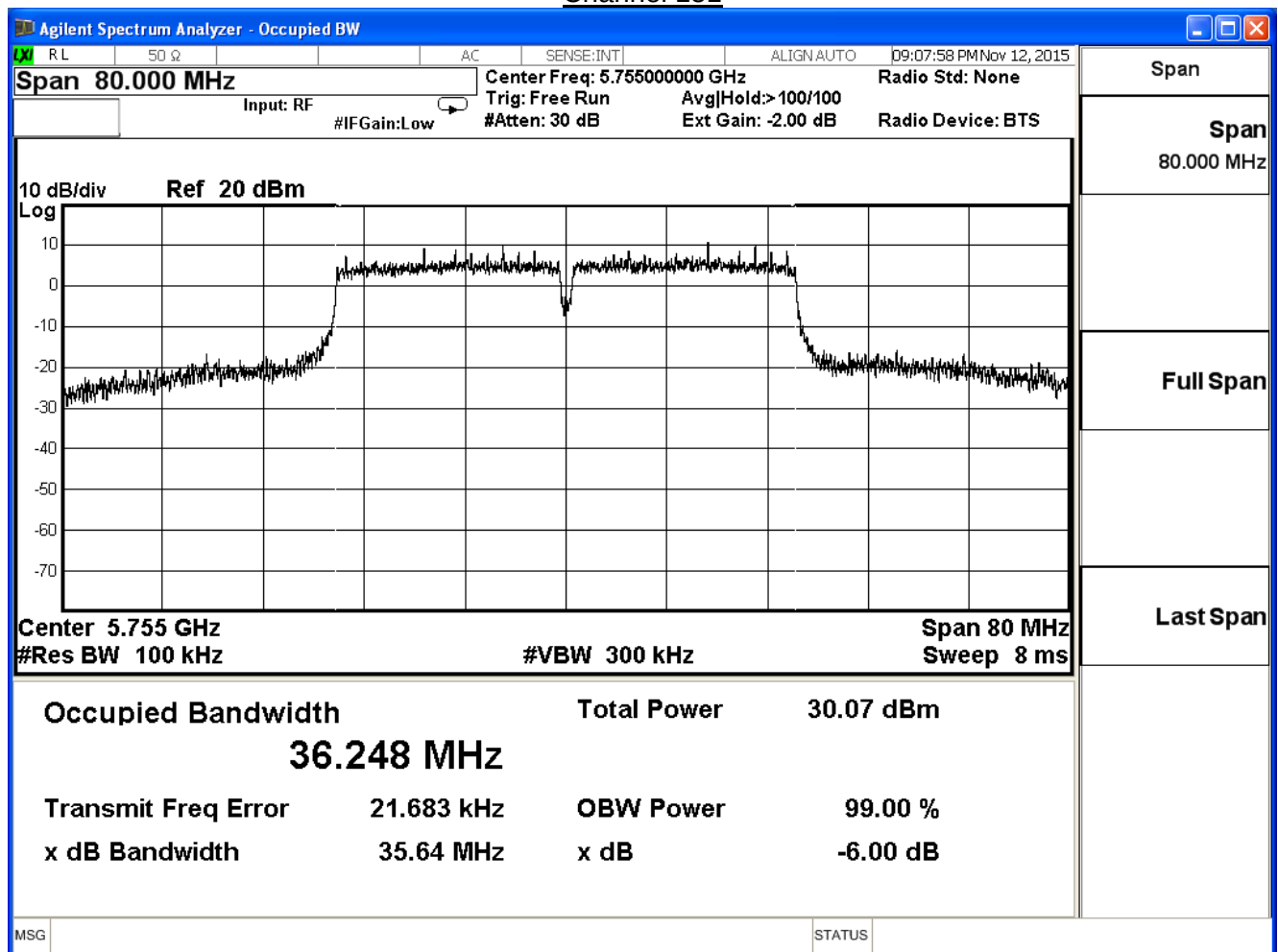
Channel 165



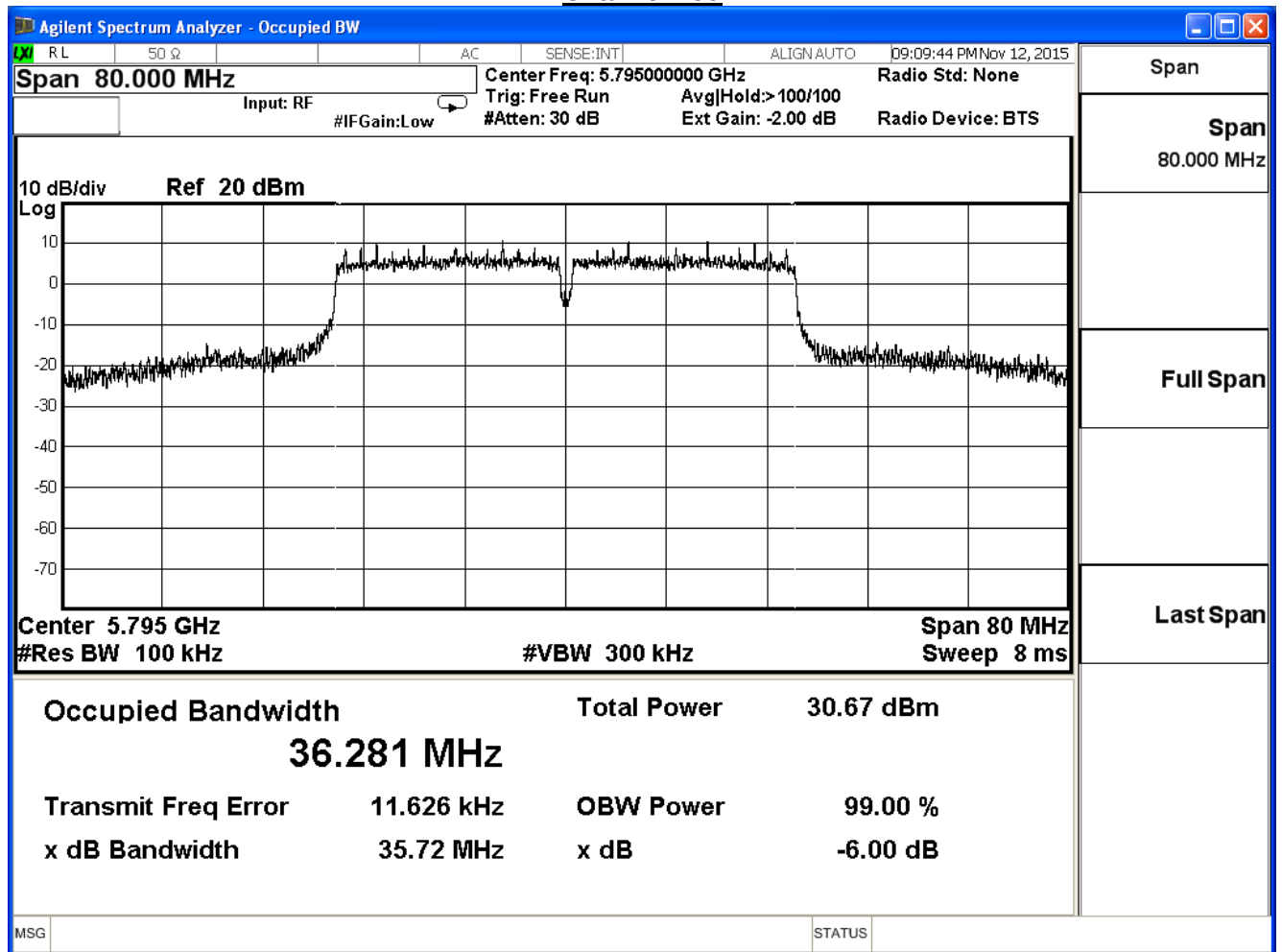
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.640	≥ 0.5	Pass
159	5795	35.720	≥ 0.5	Pass

Channel 151



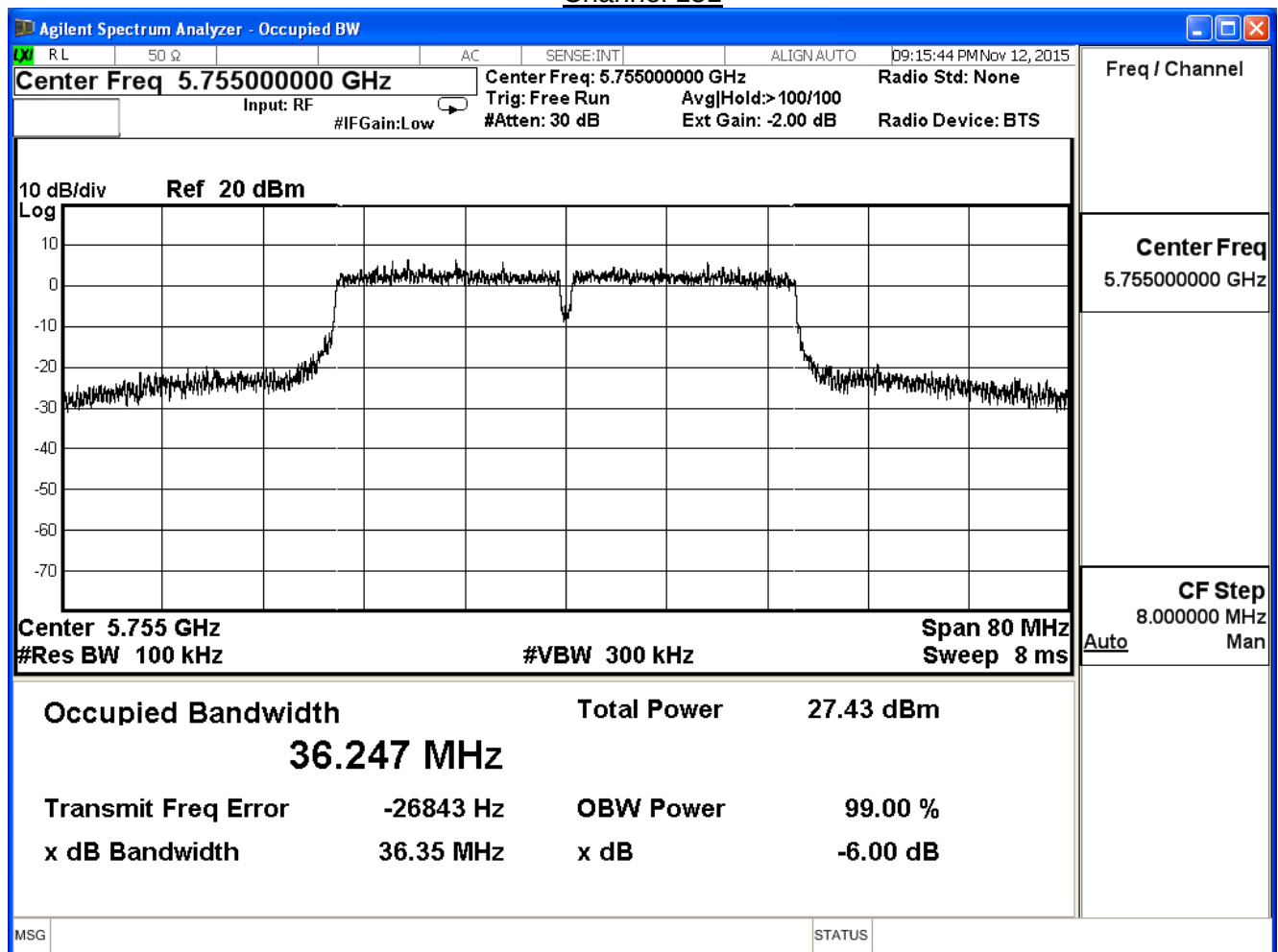
Channel 159



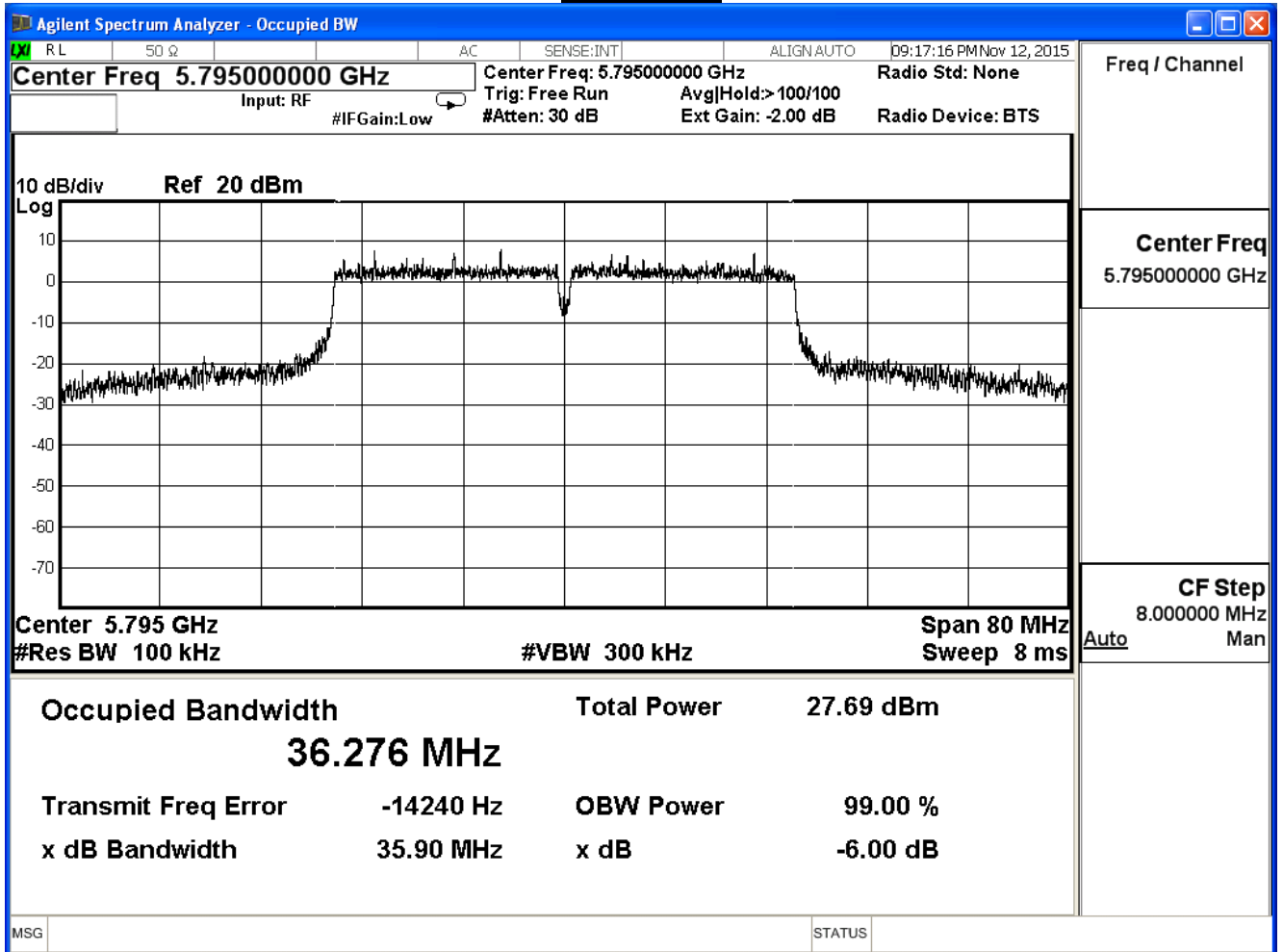
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	36.350	≥ 0.5	Pass
159	5795	35.900	≥ 0.5	Pass

Channel 151



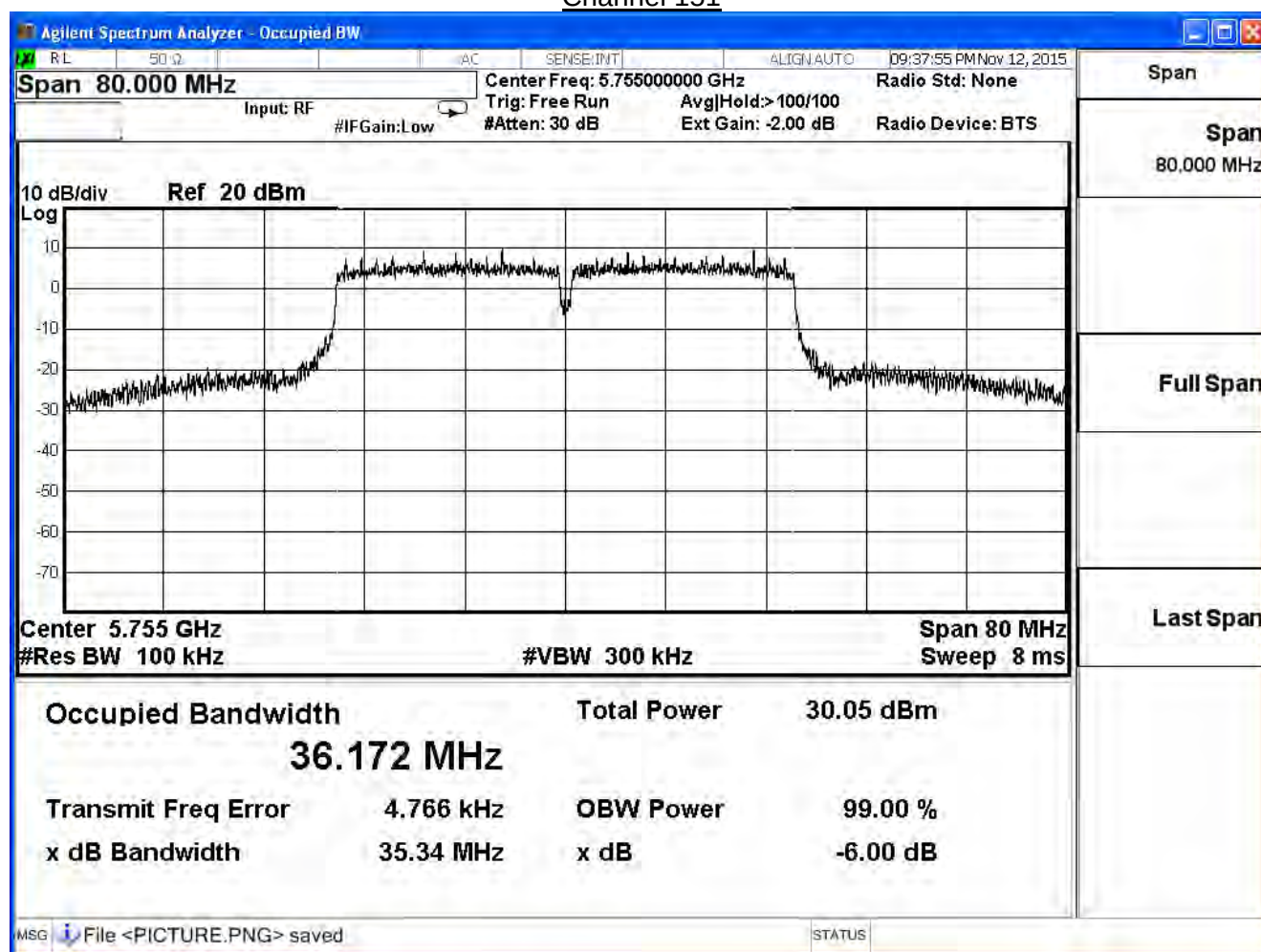
Channel 159



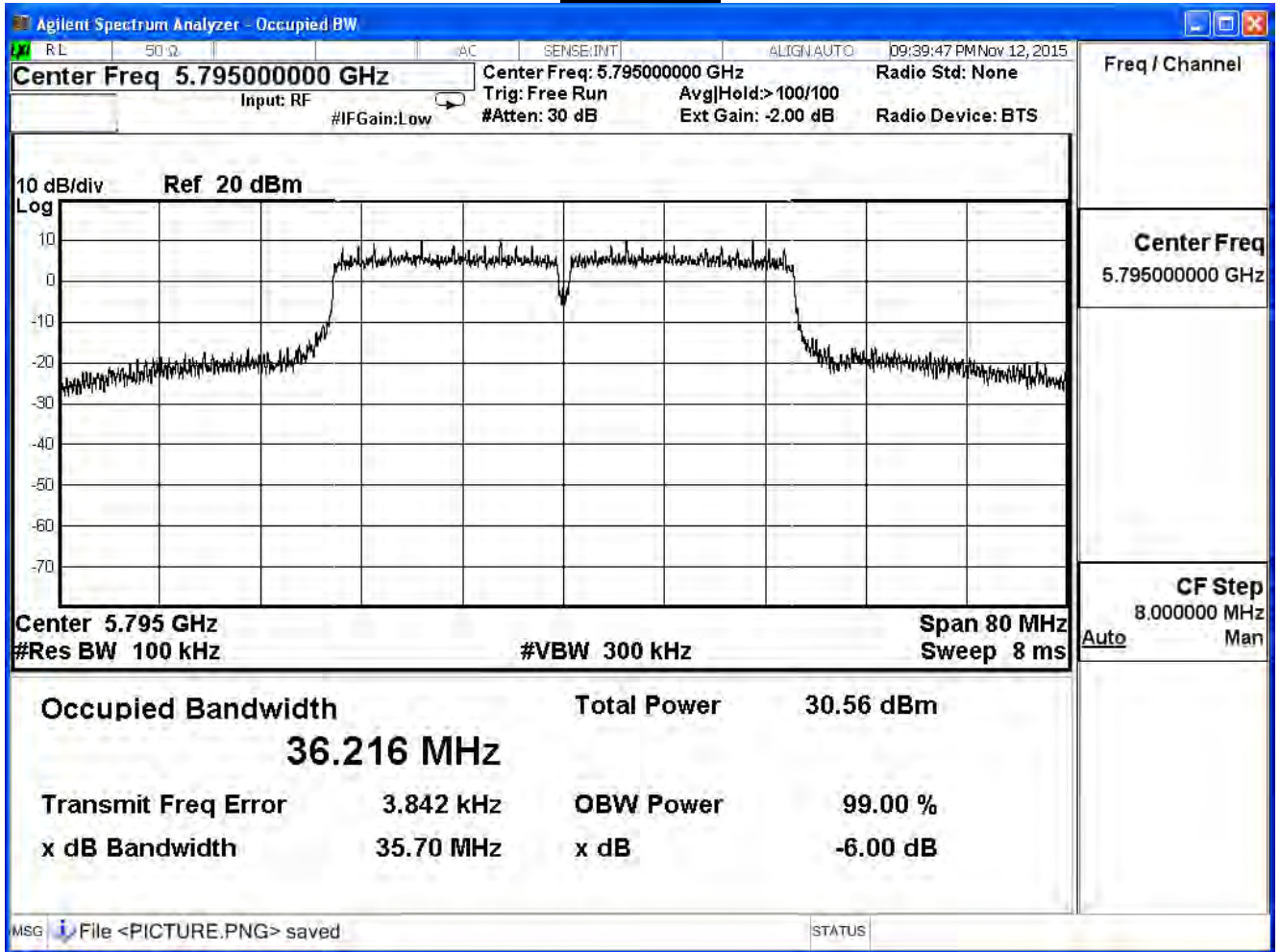
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.340	≥ 0.5	Pass
159	5795	35.700	≥ 0.5	Pass

Channel 151



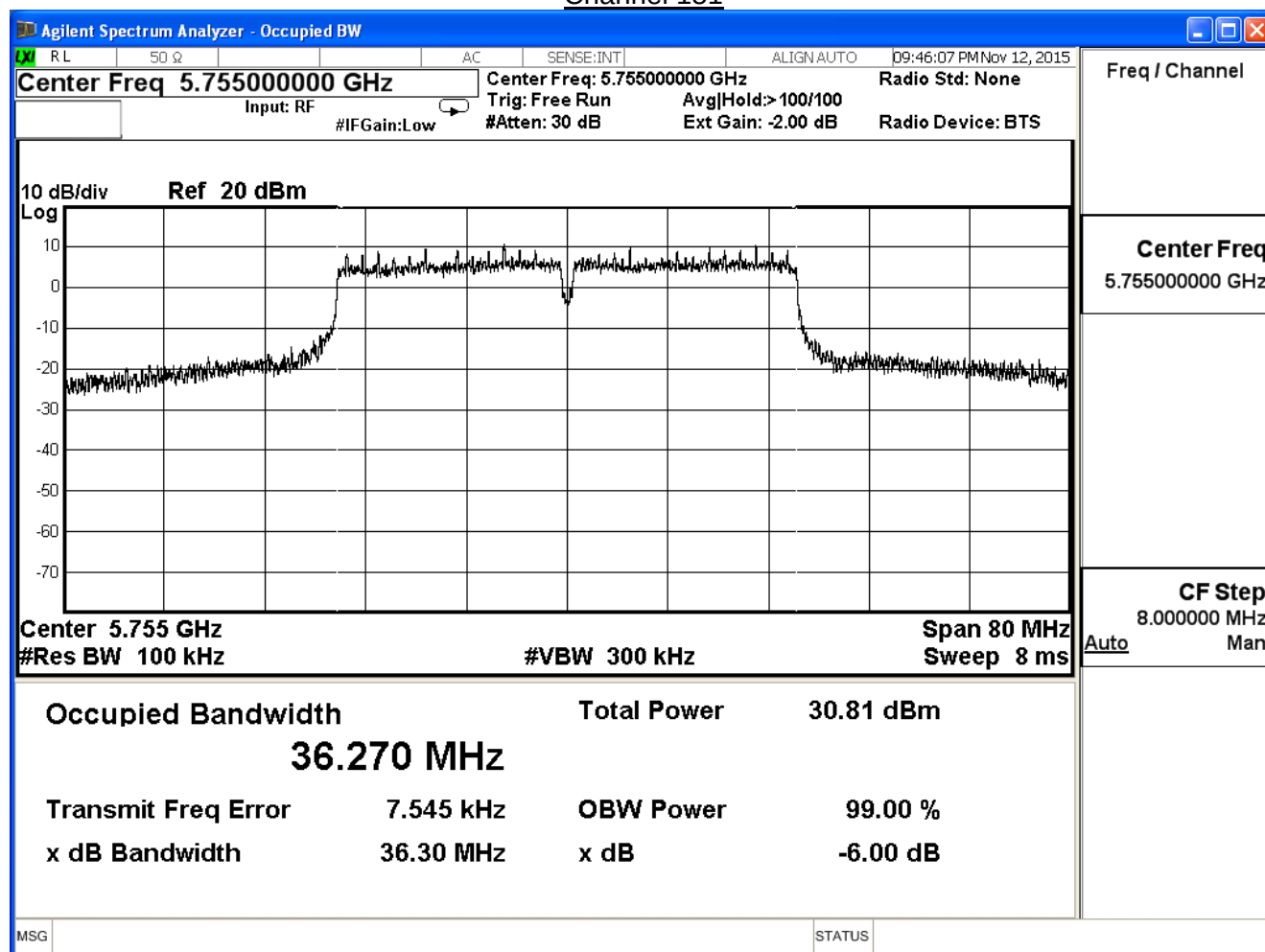
Channel 159



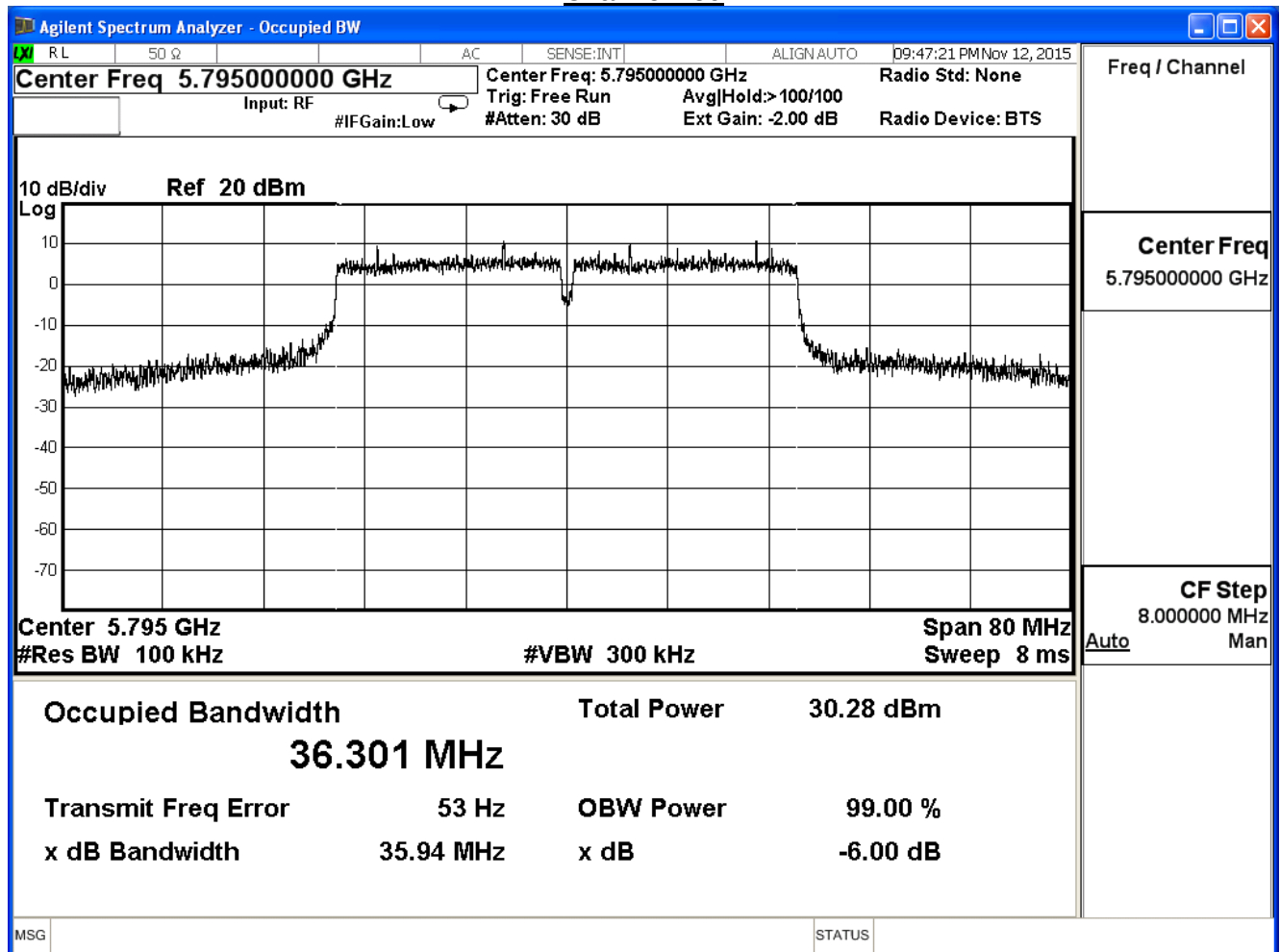
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	36.300	≥ 0.5	Pass
159	5795	35.940	≥ 0.5	Pass

Channel 151



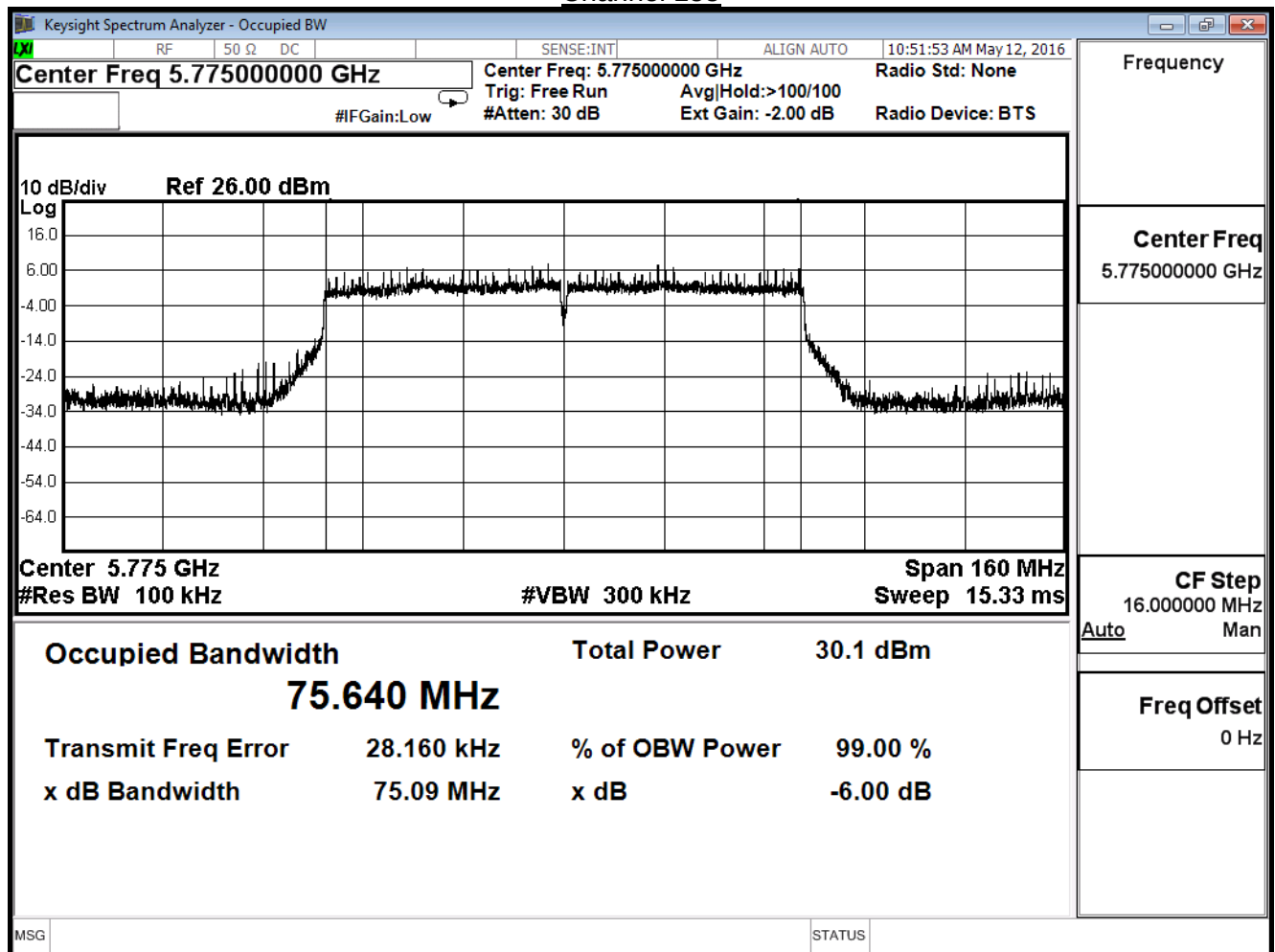
Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.09	≥ 0.5	Pass

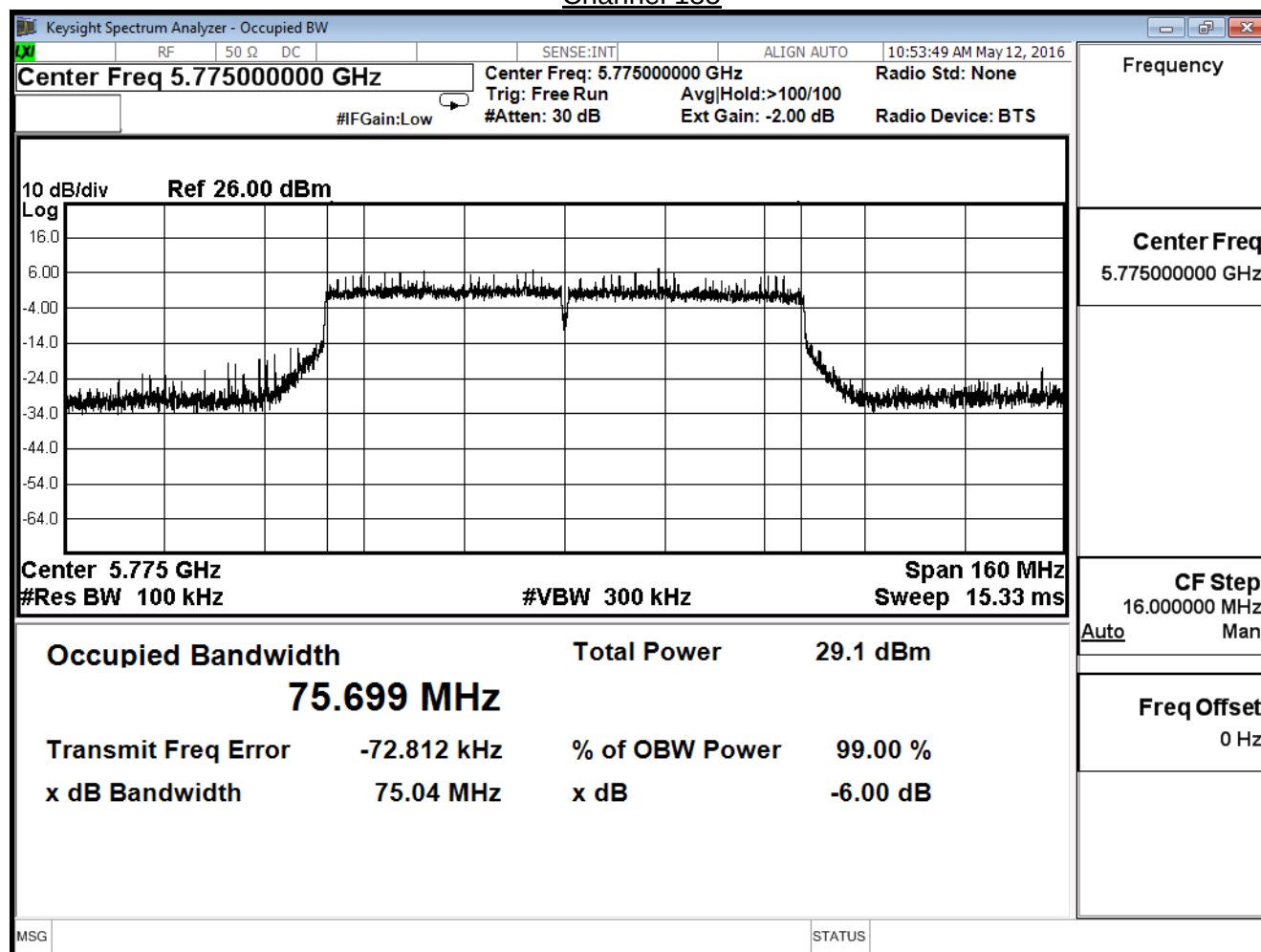
Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.04	≥ 0.5	Pass

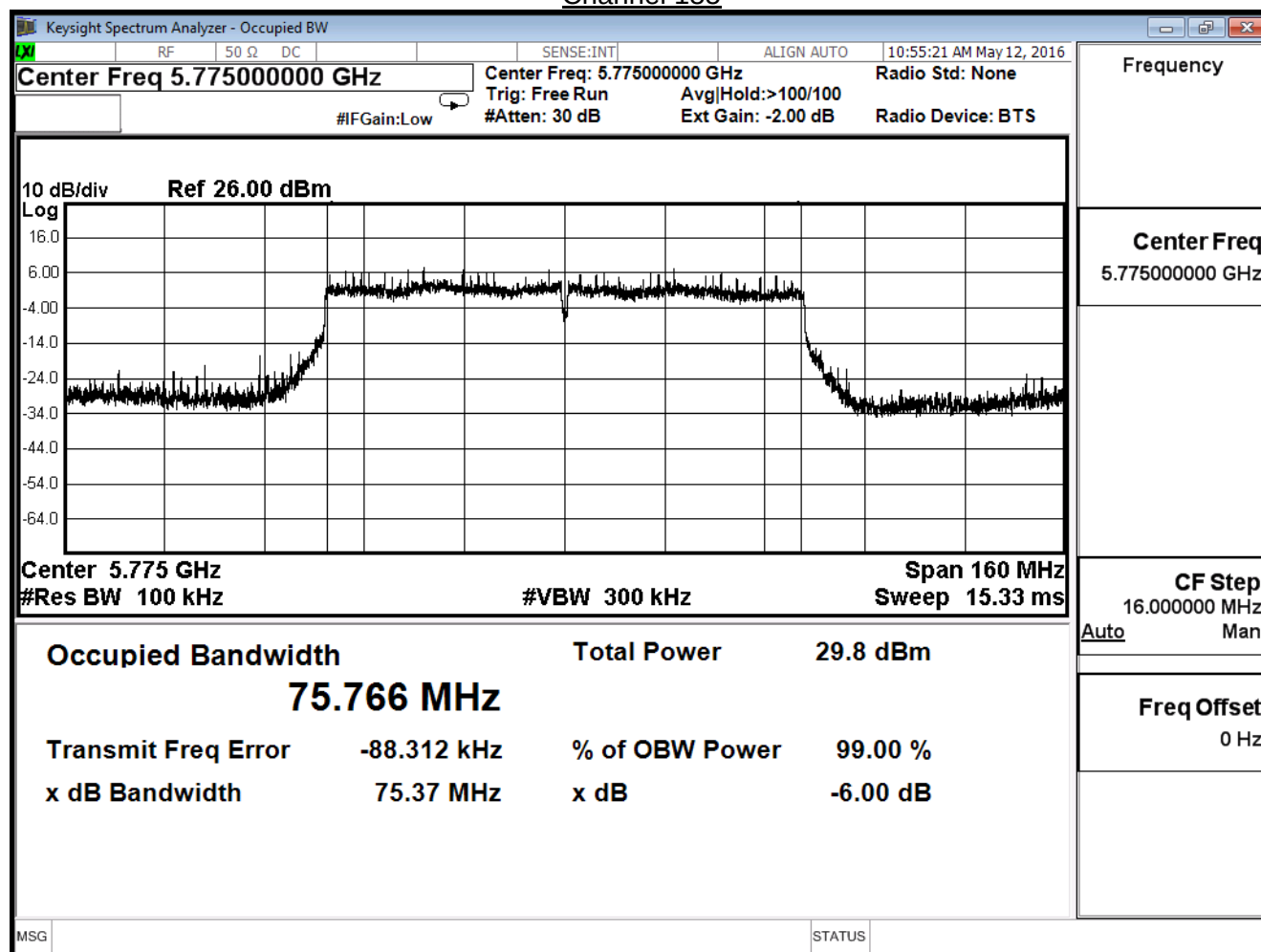
Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.37	≥ 0.5	Pass

Channel 155

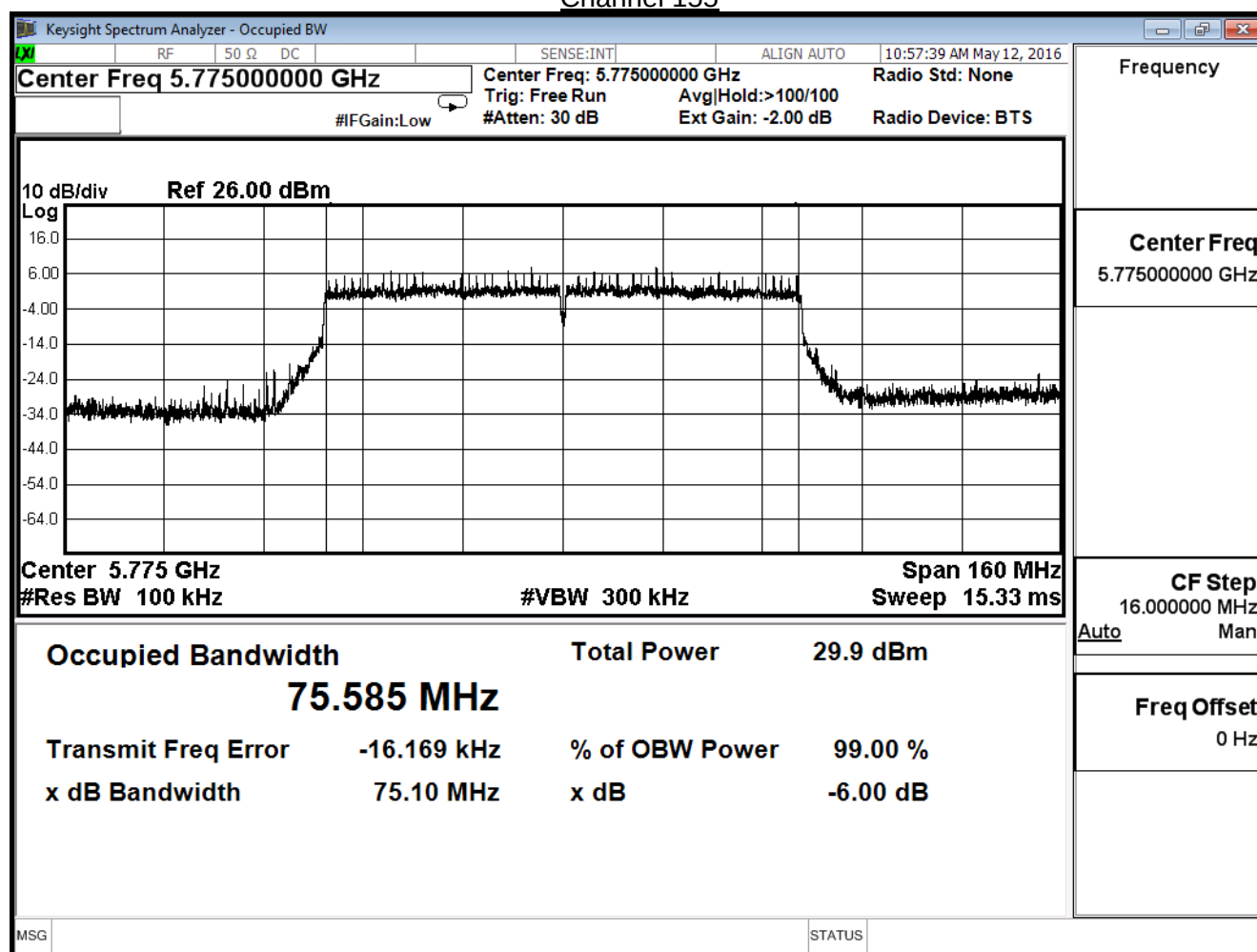


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/12	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.10	≥ 0.5	Pass

Channel 155



4. Peak Transmit Output

4.1. Test Equipment

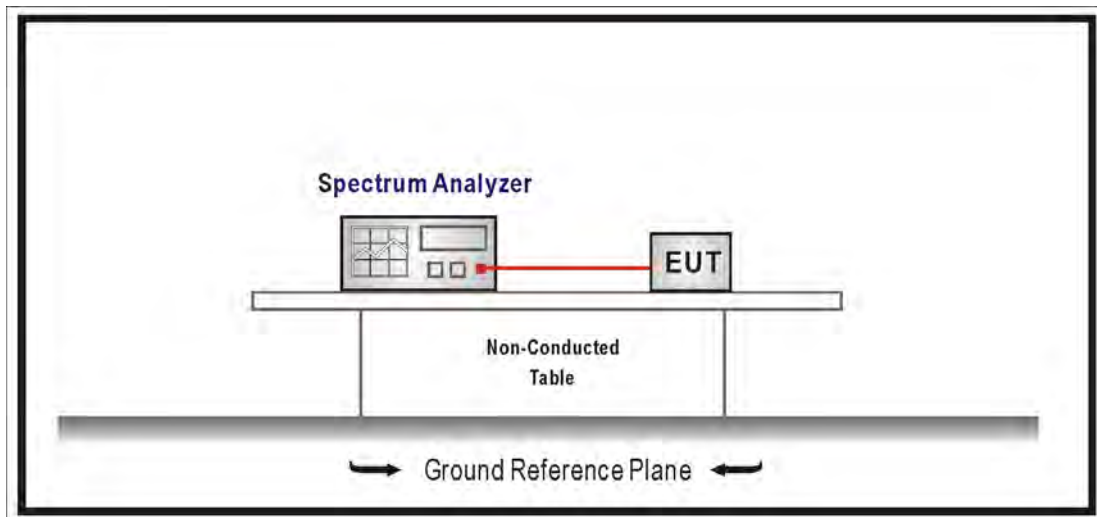
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

Note: All equipments that need to calibrate are with calibration period of 1 year.

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 V01R01 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	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

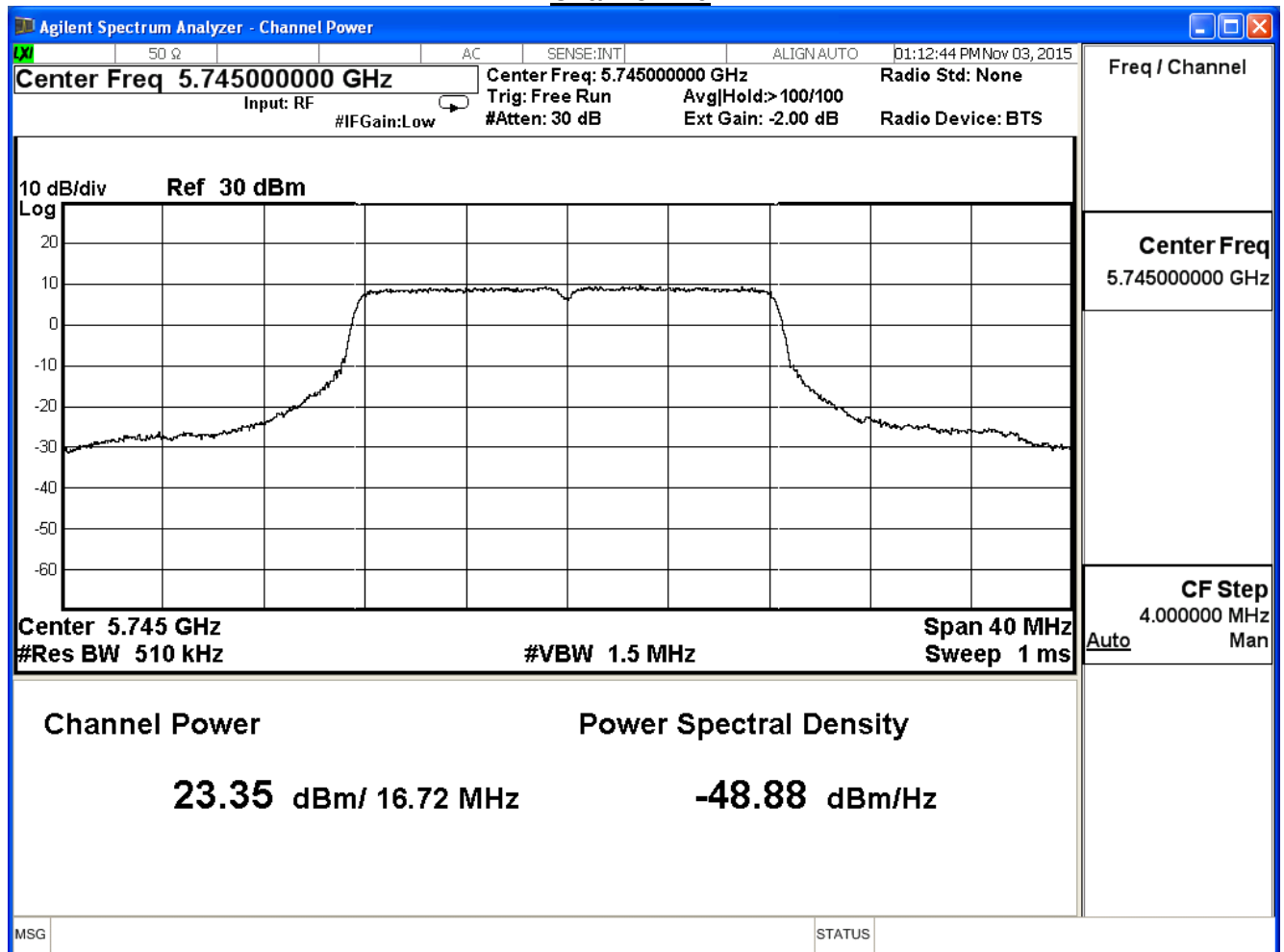
IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.35	≤30
157	5785	23.38	≤30
165	5825	23.65	≤30

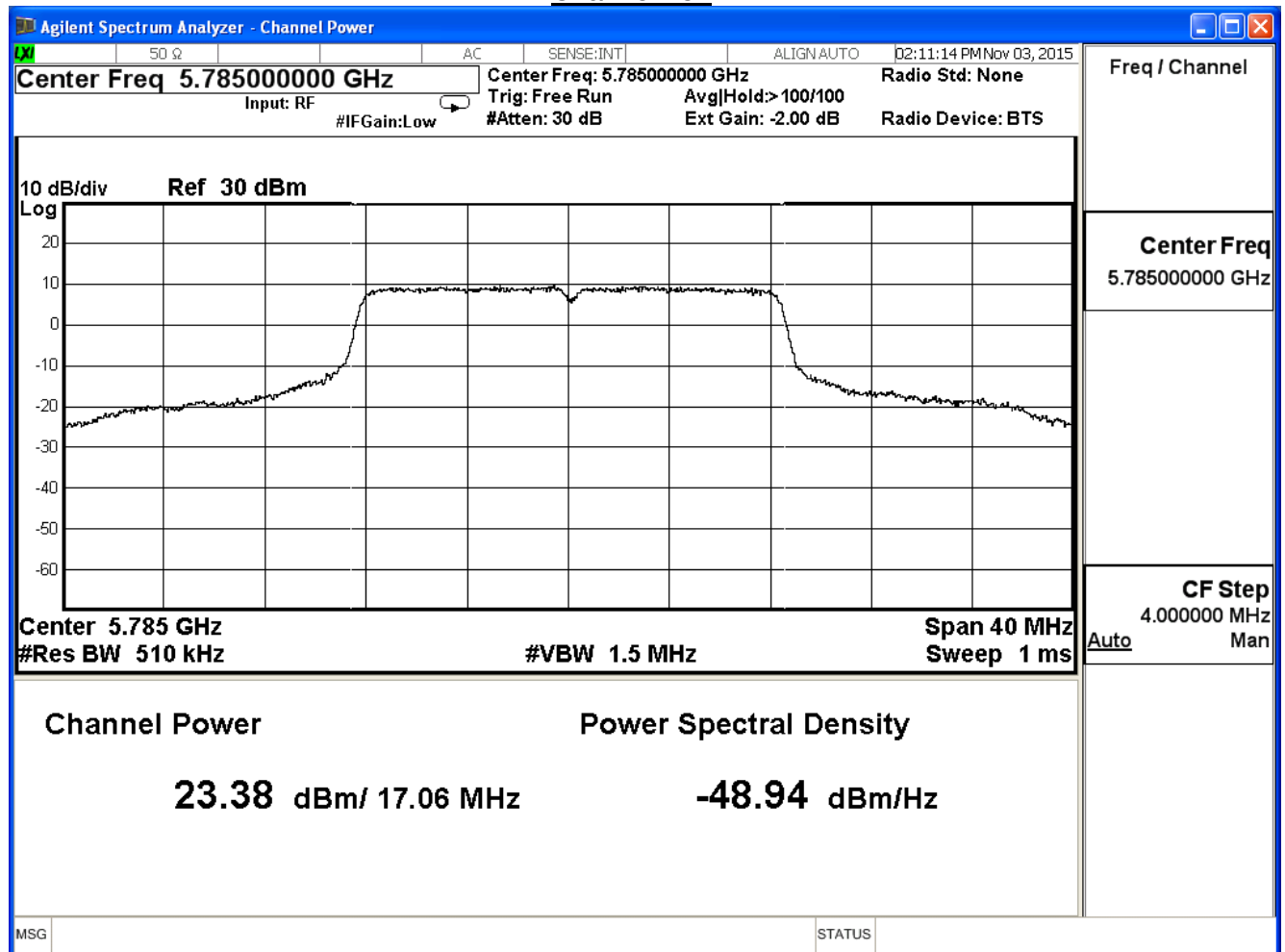
The worst emission of data rate is 6Mbps.

Peak Transmit Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.35	--	--	--	--	--	--	≤30dBm
157	5785	23.38	23.16	22.96	22.86	22.74	22.50	22.20	
165	5825	23.65	--	--	--	--	--	--	

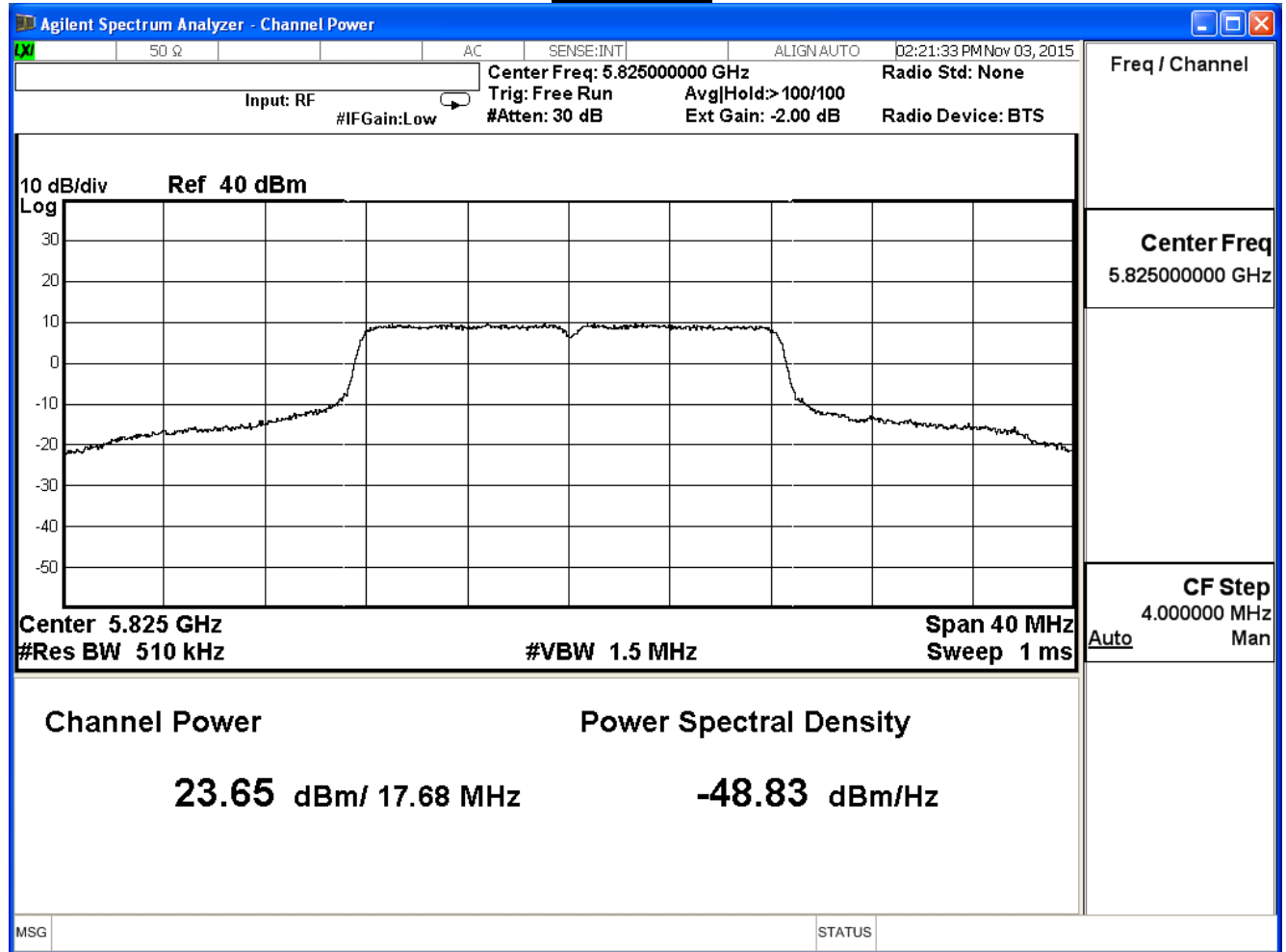
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

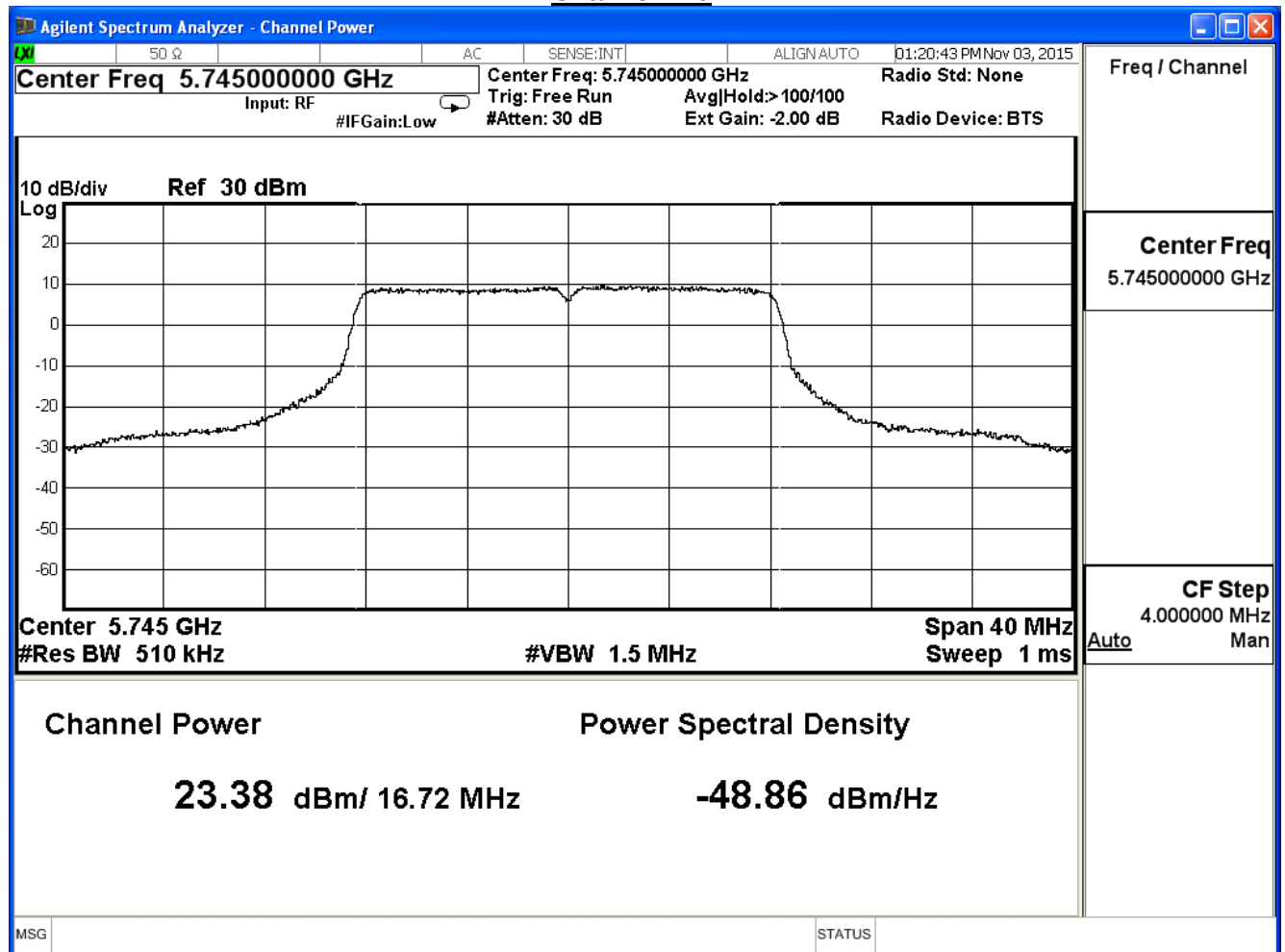
IEEE 802.11a (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.38	≤30
157	5785	23.53	≤30
165	5825	23.60	≤30

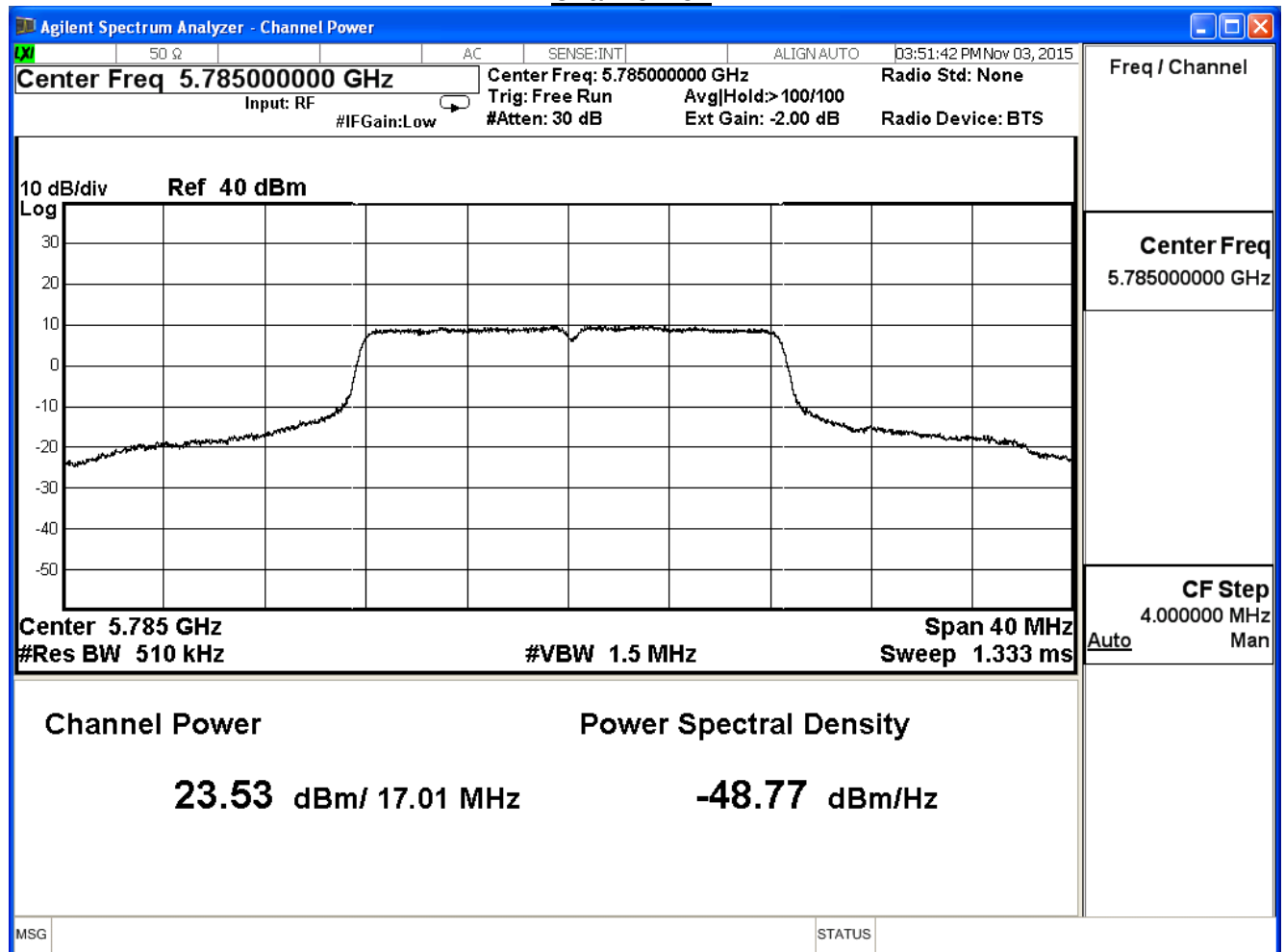
The worst emission of data rate is 6Mbps.

Peak Transmit Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.38	--	--	--	--	--	--	≤30dBm
157	5785	23.53	23.33	23.21	23.11	23.01	22.88	22.76	
165	5825	23.60	--	--	--	--	--	--	

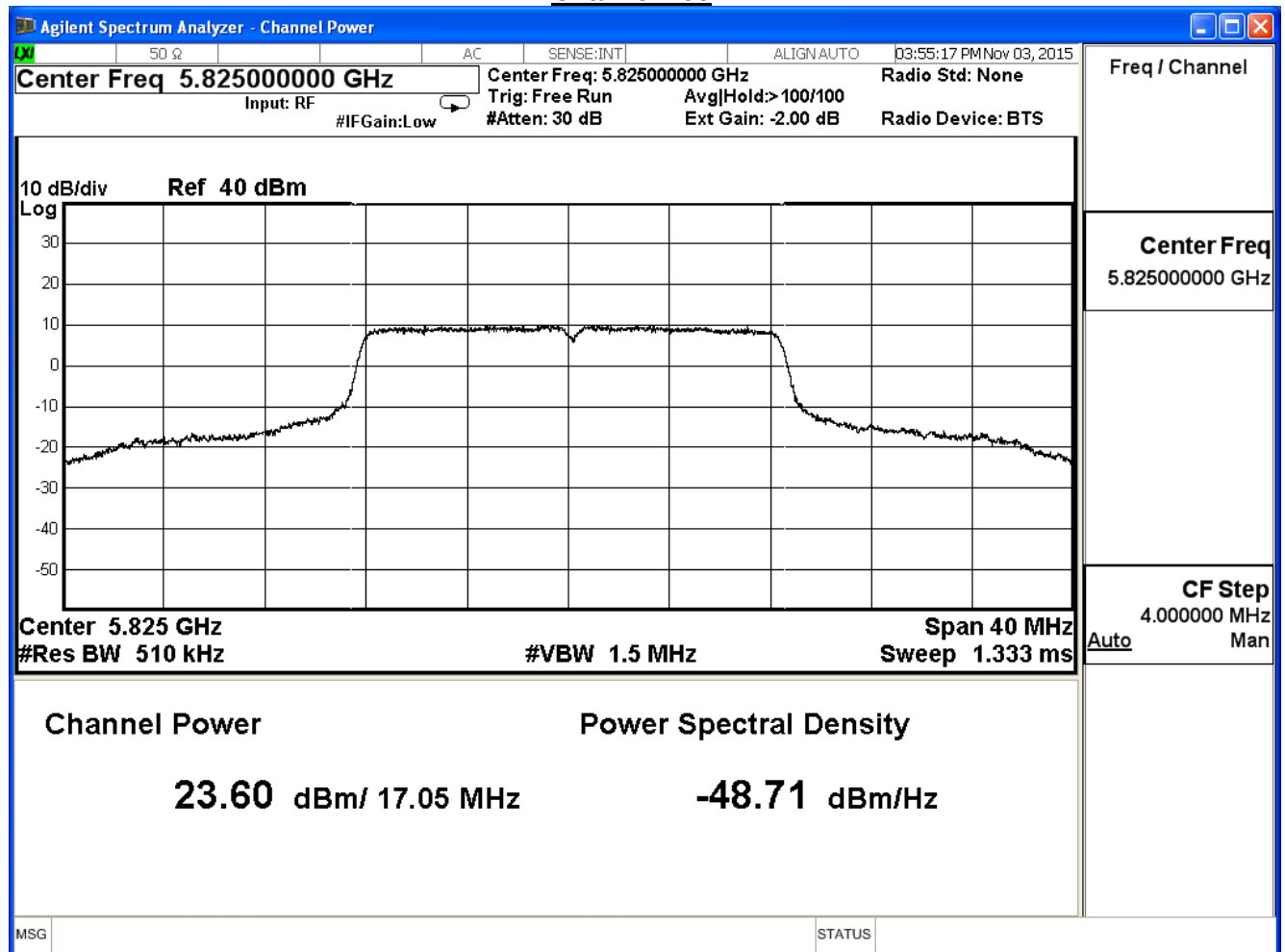
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

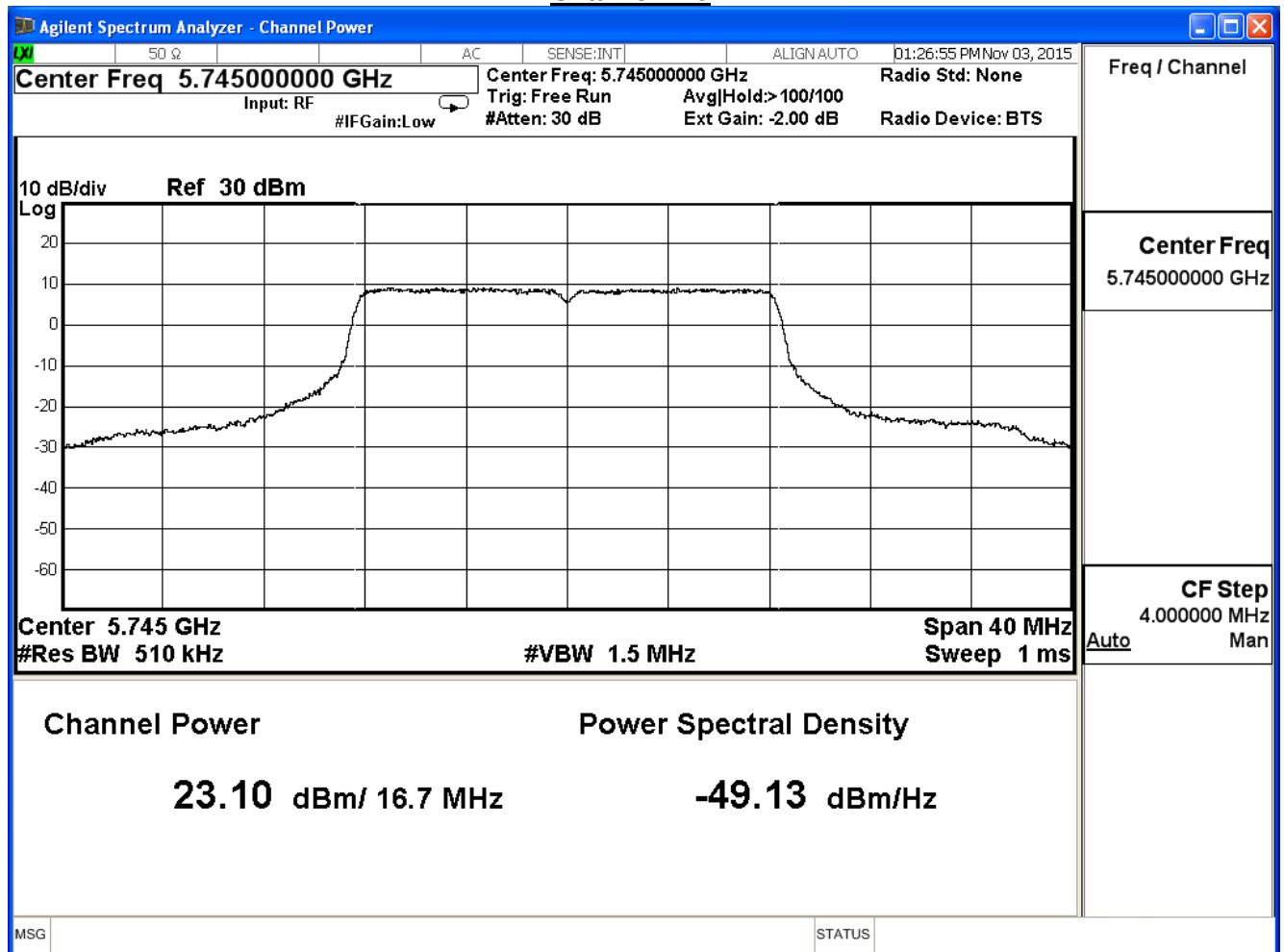
IEEE 802.11a (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.10	≤30
157	5785	23.15	≤30
165	5825	23.12	≤30

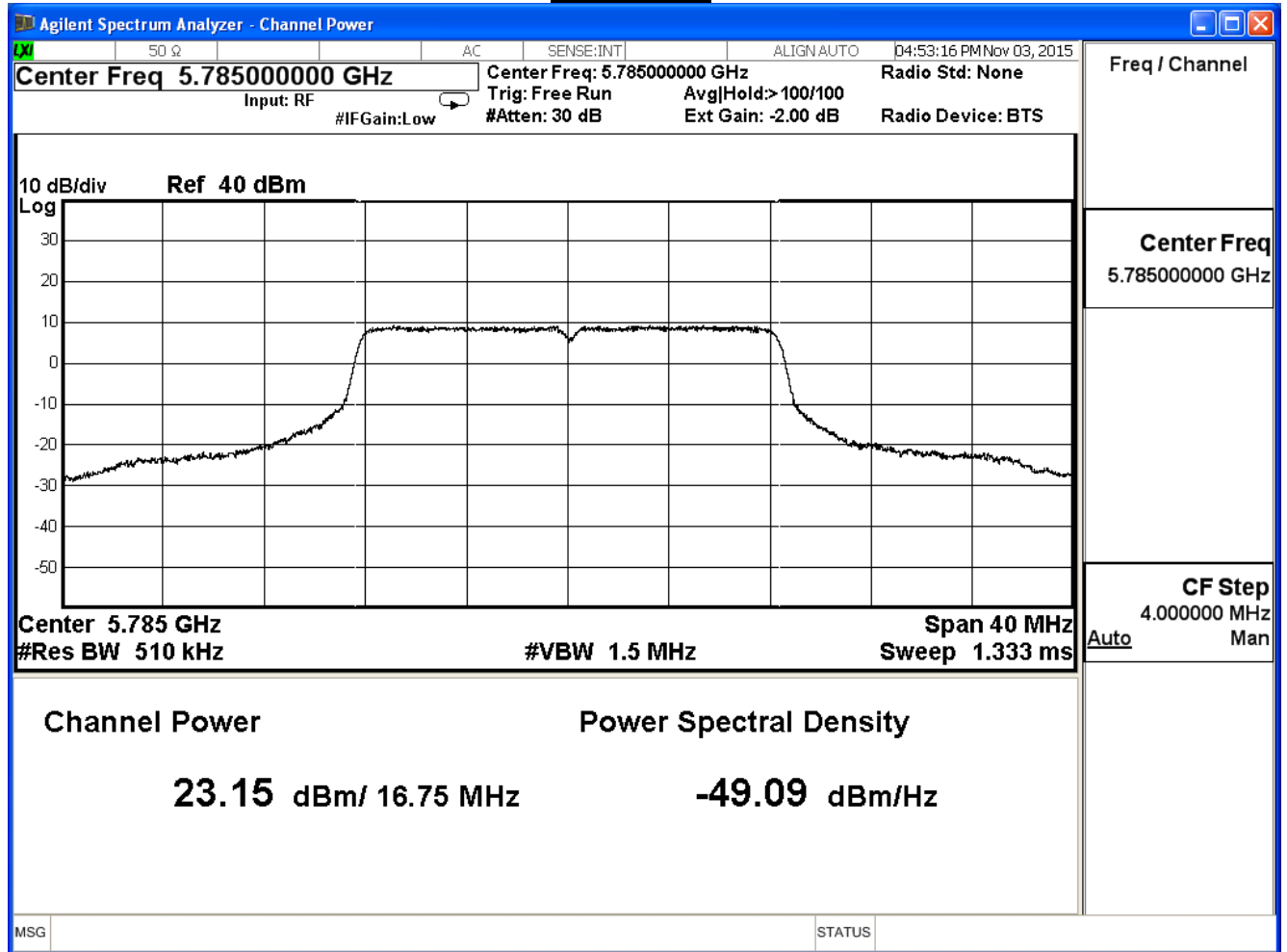
The worst emission of data rate is 6Mbps.

Peak Transmit Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.10	--	--	--	--	--	--	≤30dBm
157	5785	23.15	23.05	22.95	22.71	22.51	22.39	22.27	
165	5825	23.12	--	--	--	--	--	--	

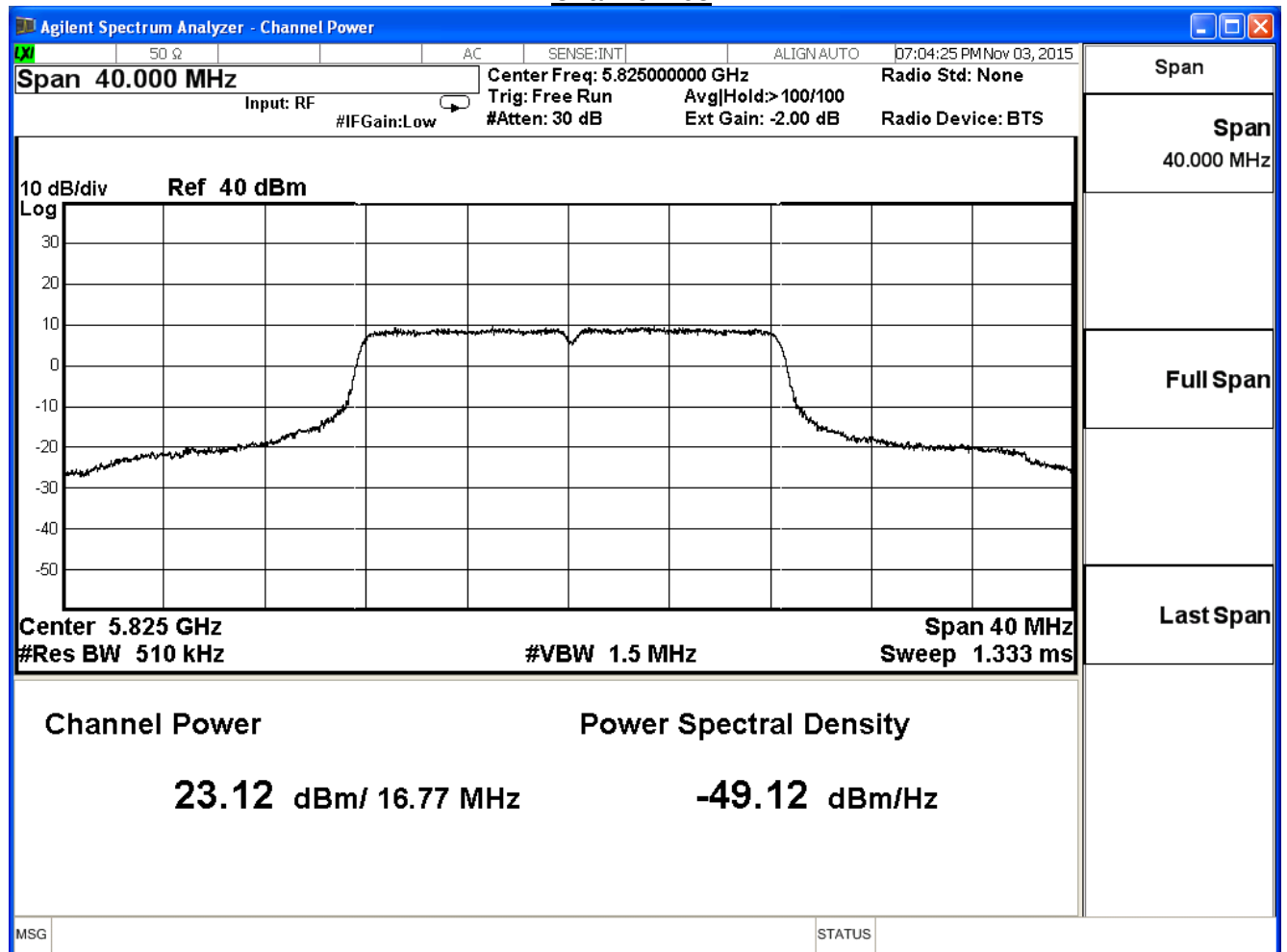
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

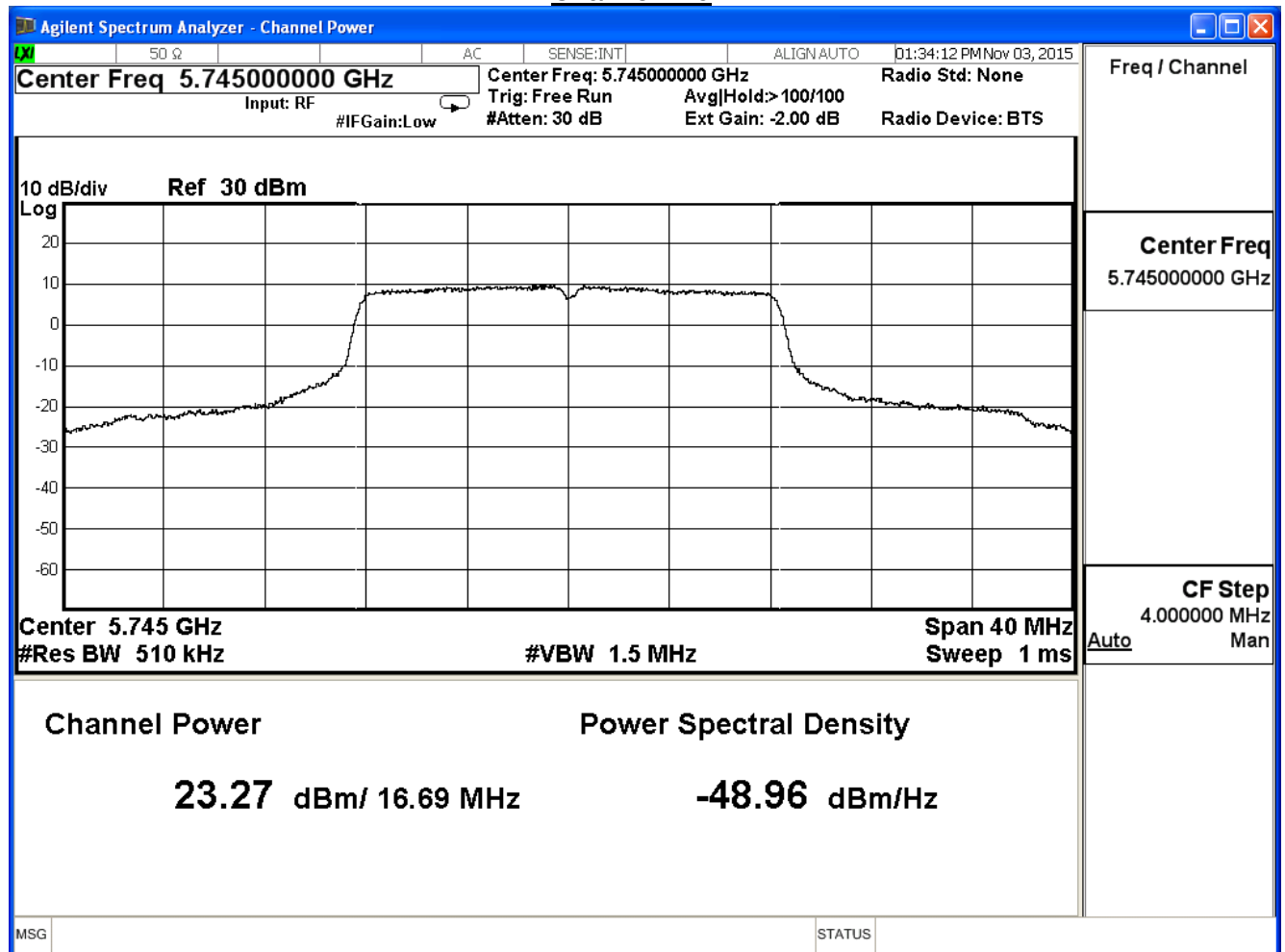
IEEE 802.11a (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.27	≤30
157	5785	23.20	≤30
165	5825	23.12	≤30

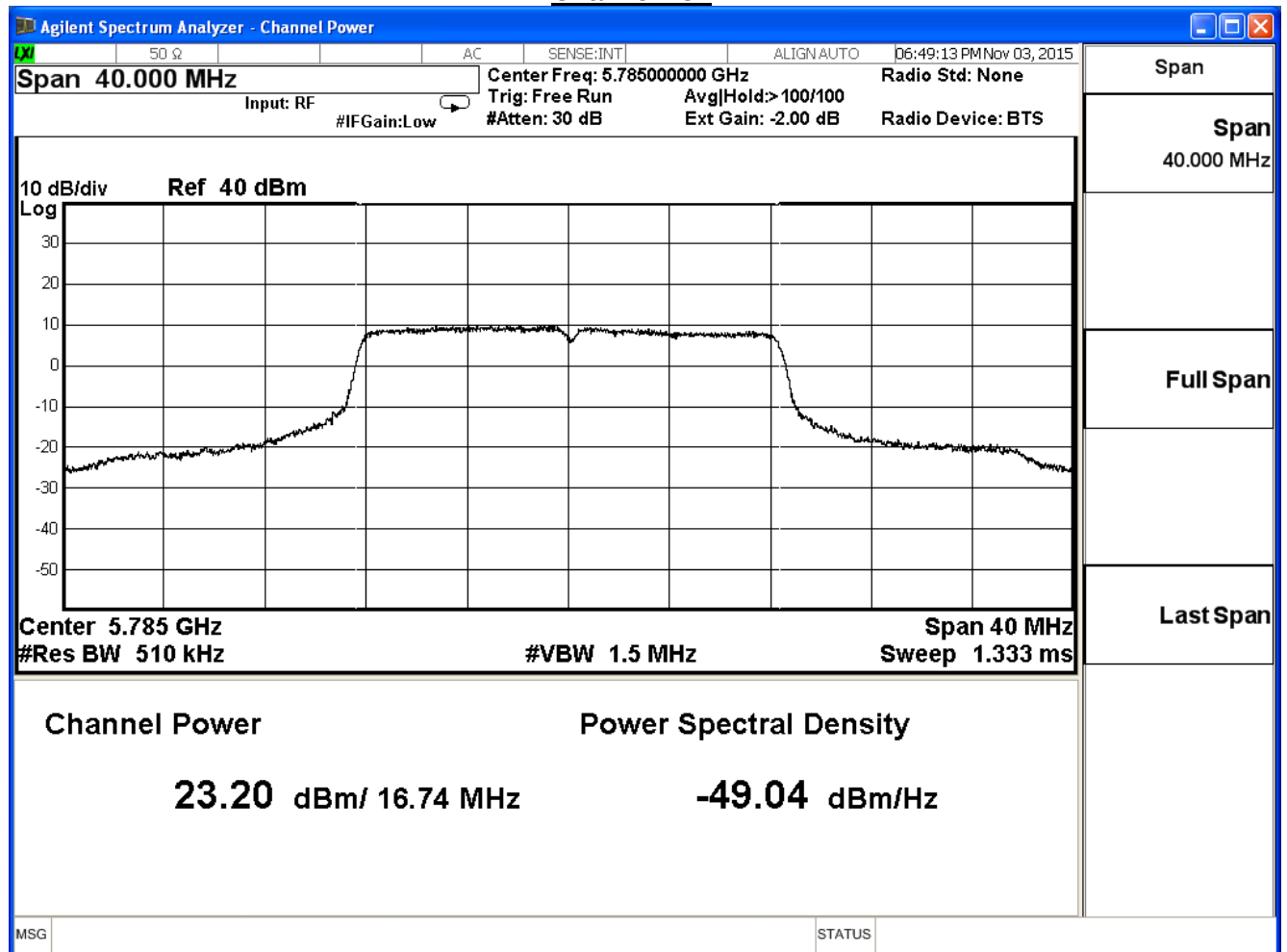
The worst emission of data rate is 6Mbps.

Peak Transmit Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.27	--	--	--	--	--	--	≤30dBm
157	5785	23.20	23.10	22.90	22.78	22.68	22.44	22.20	
165	5825	23.12	--	--	--	--	--	--	

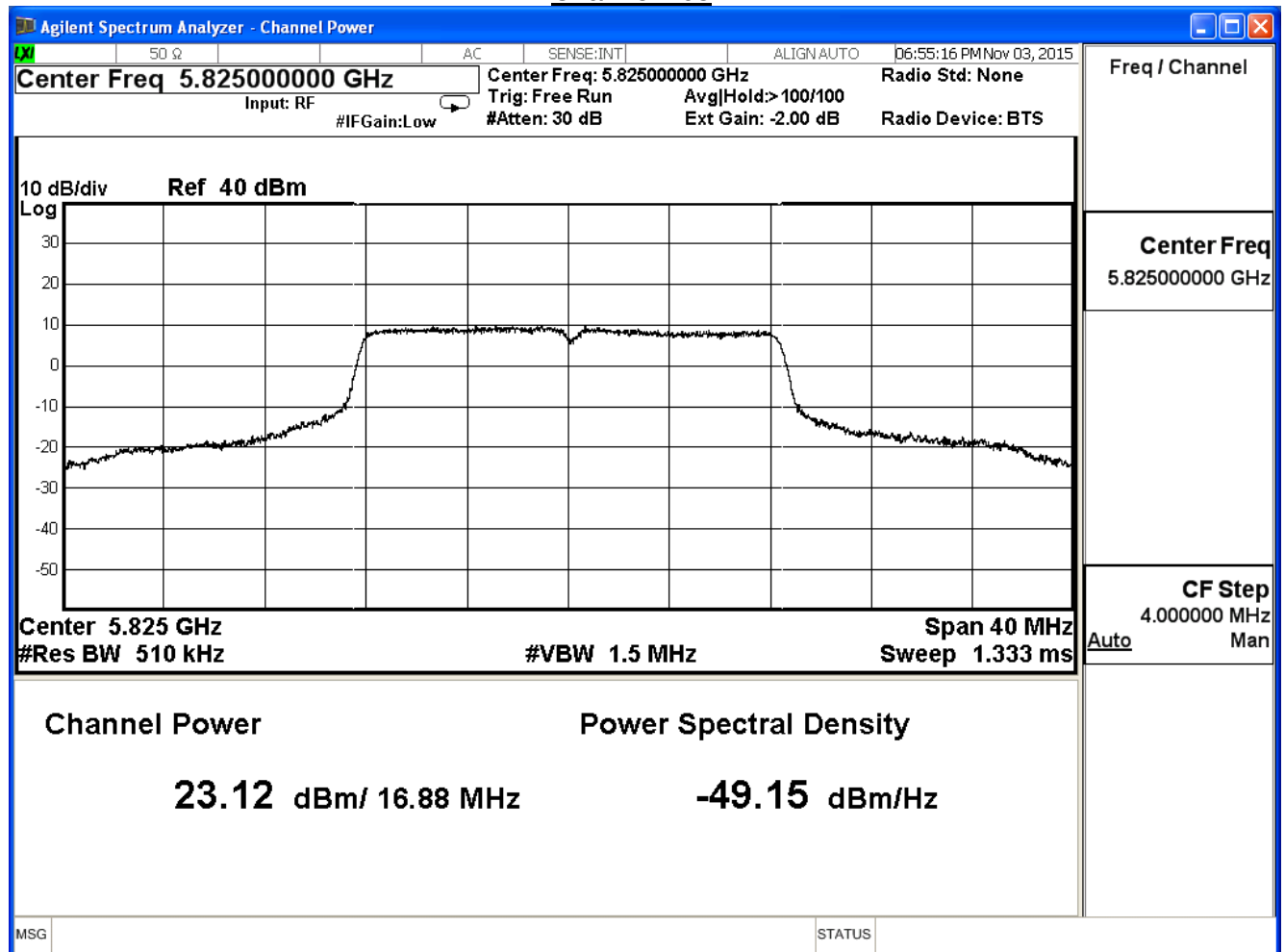
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	29.30	≤30
157	5785	29.34	≤30
165	5825	29.40	≤30

The worst emission of data rate is 6Mbps.

Peak Transmit Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	29.30	--	--	--	--	--	--	≤30dBm
157	5785	29.34	29.16	29.03	28.83	28.65	28.43	28.25	
165	5825	29.40	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/06	Test Site	SR7

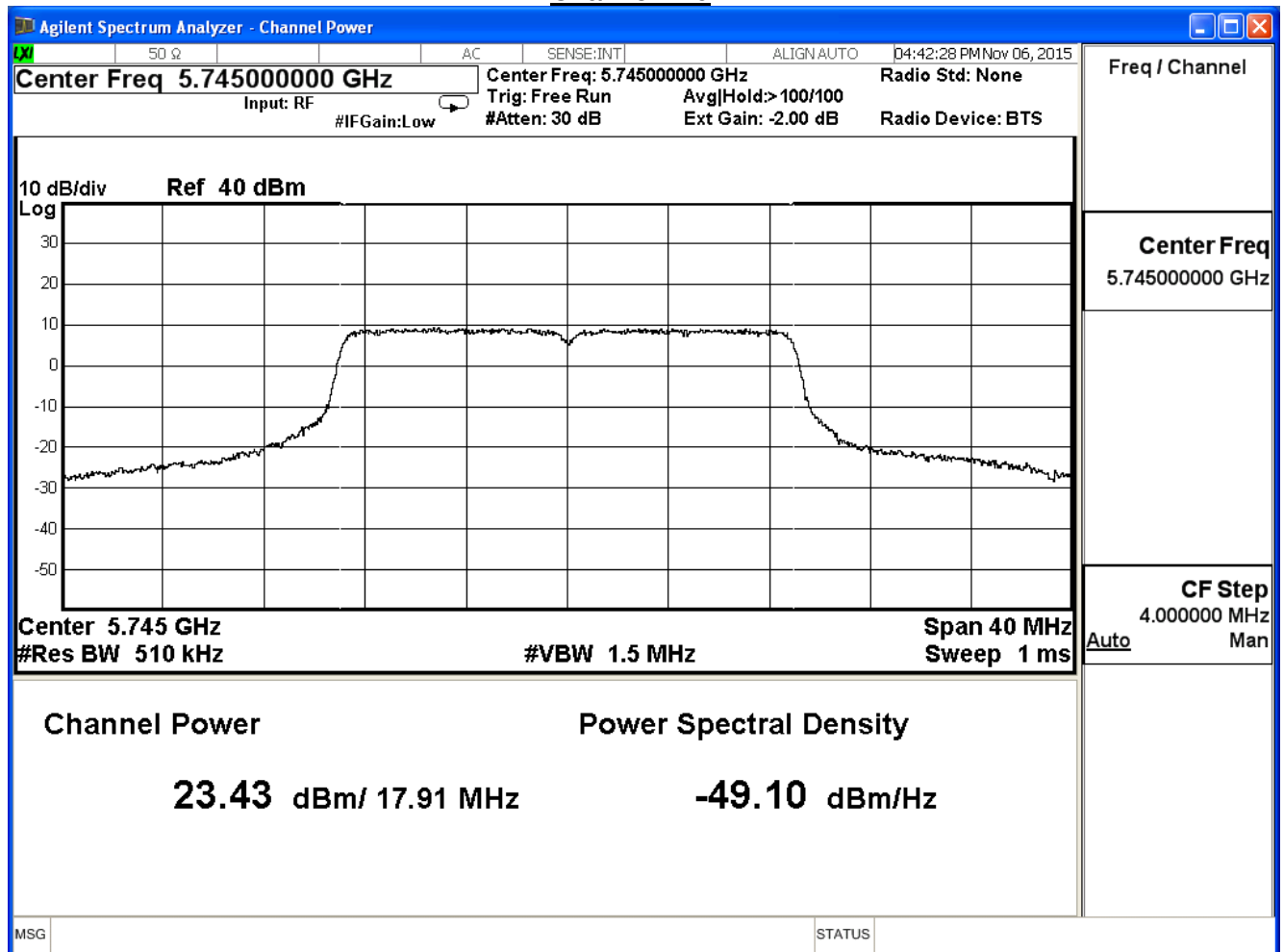
IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.43	≤30
157	5785	23.35	≤30
165	5825	23.60	≤30

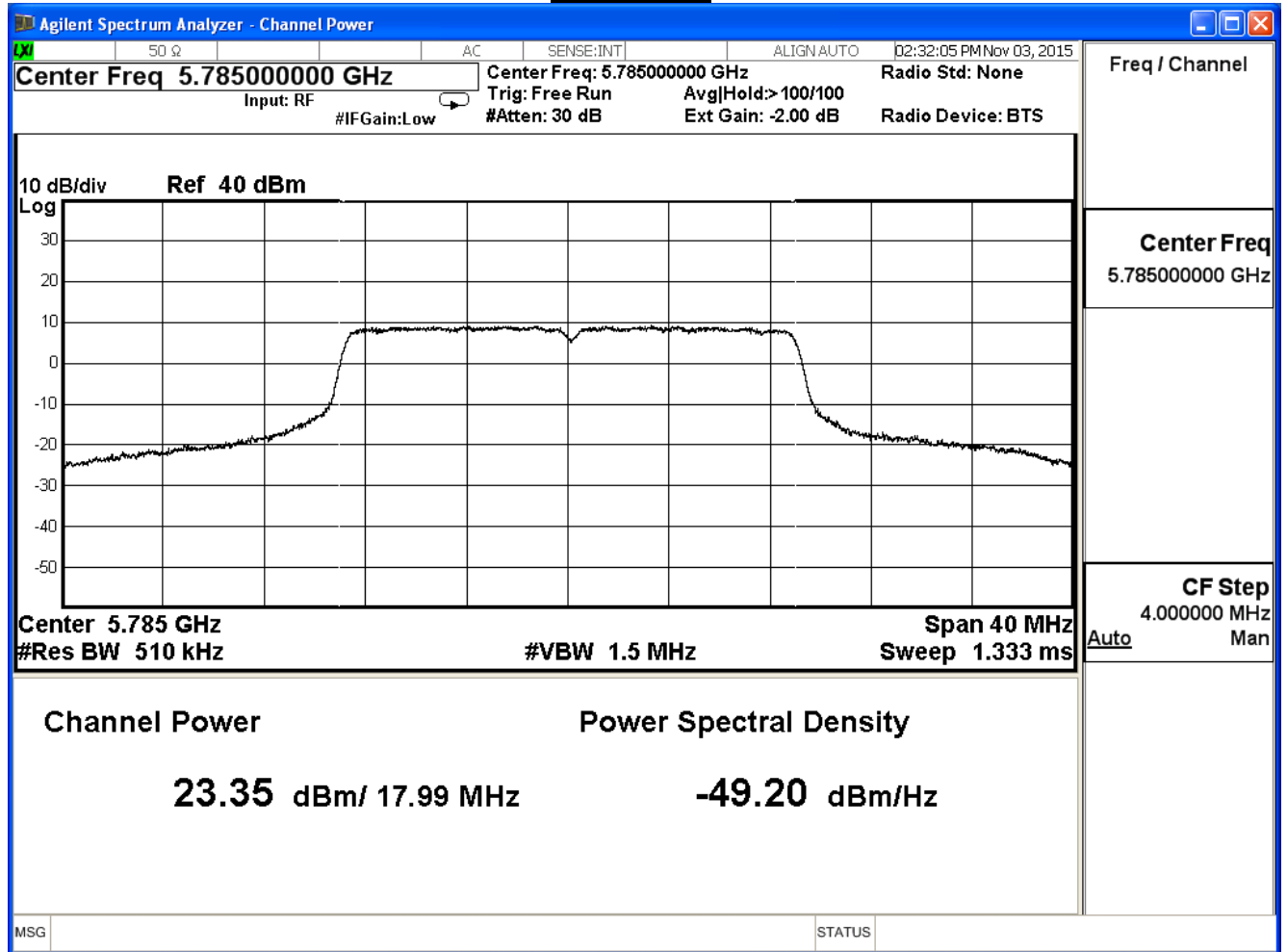
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
149	5745	23.43	--	--	--	--	--	--	--	≤30dBm
157	5785	23.35	23.24	23.04	22.94	22.70	22.46	22.31	22.07	
165	5825	23.60	--	--	--	--	--	--	--	

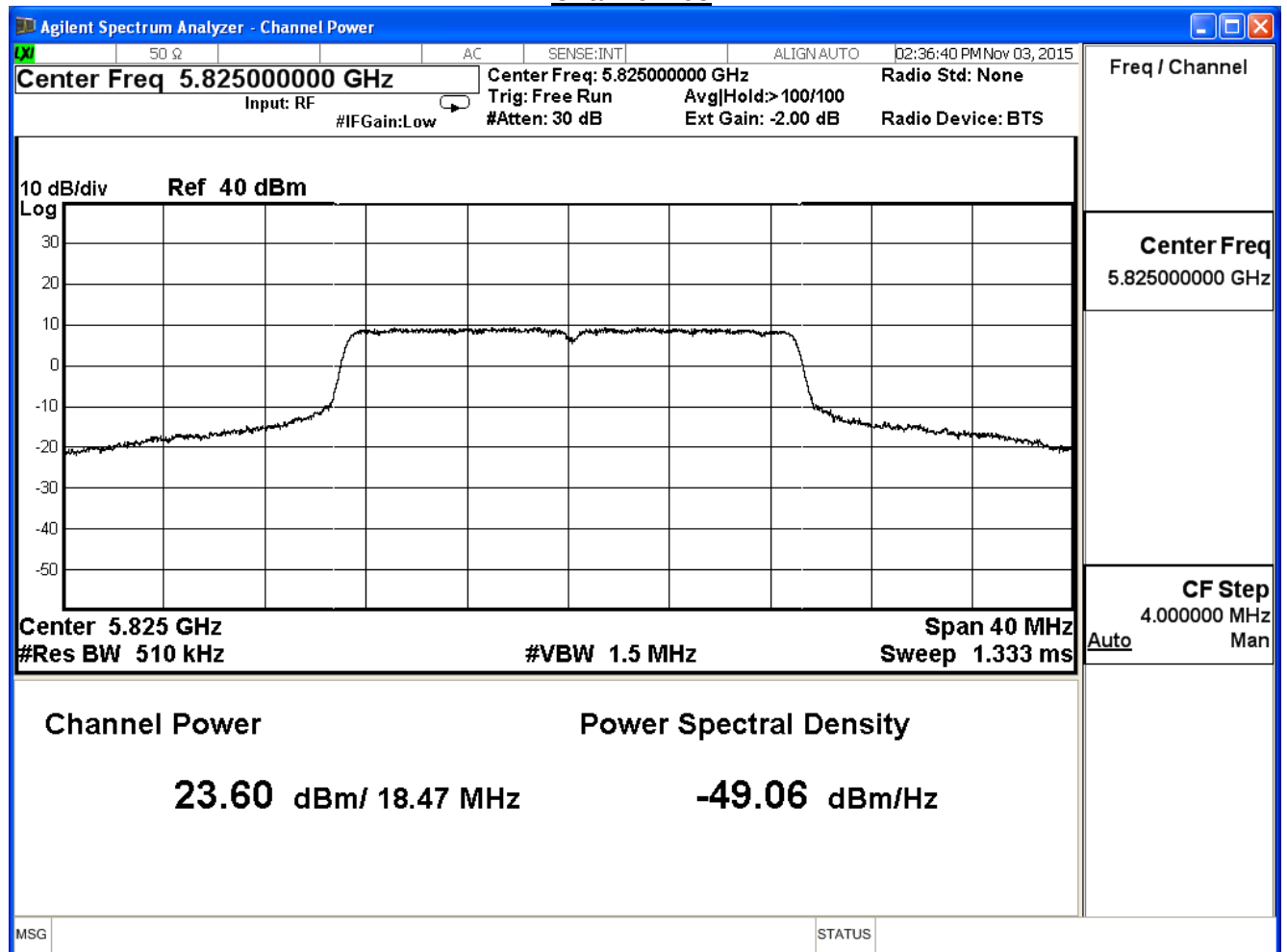
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/06	Test Site	SR7

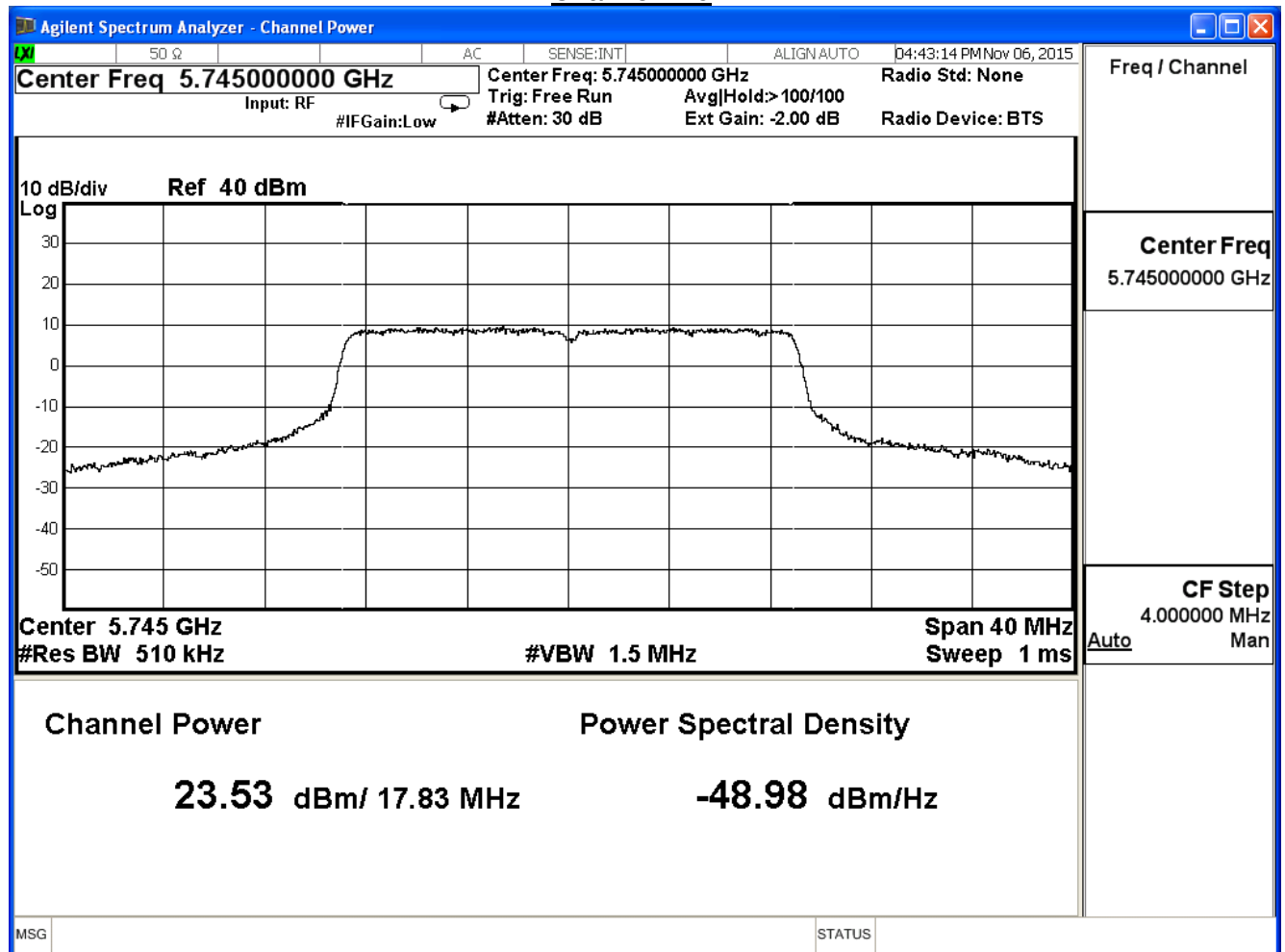
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.53	≤30
157	5785	23.47	≤30
165	5825	23.53	≤30

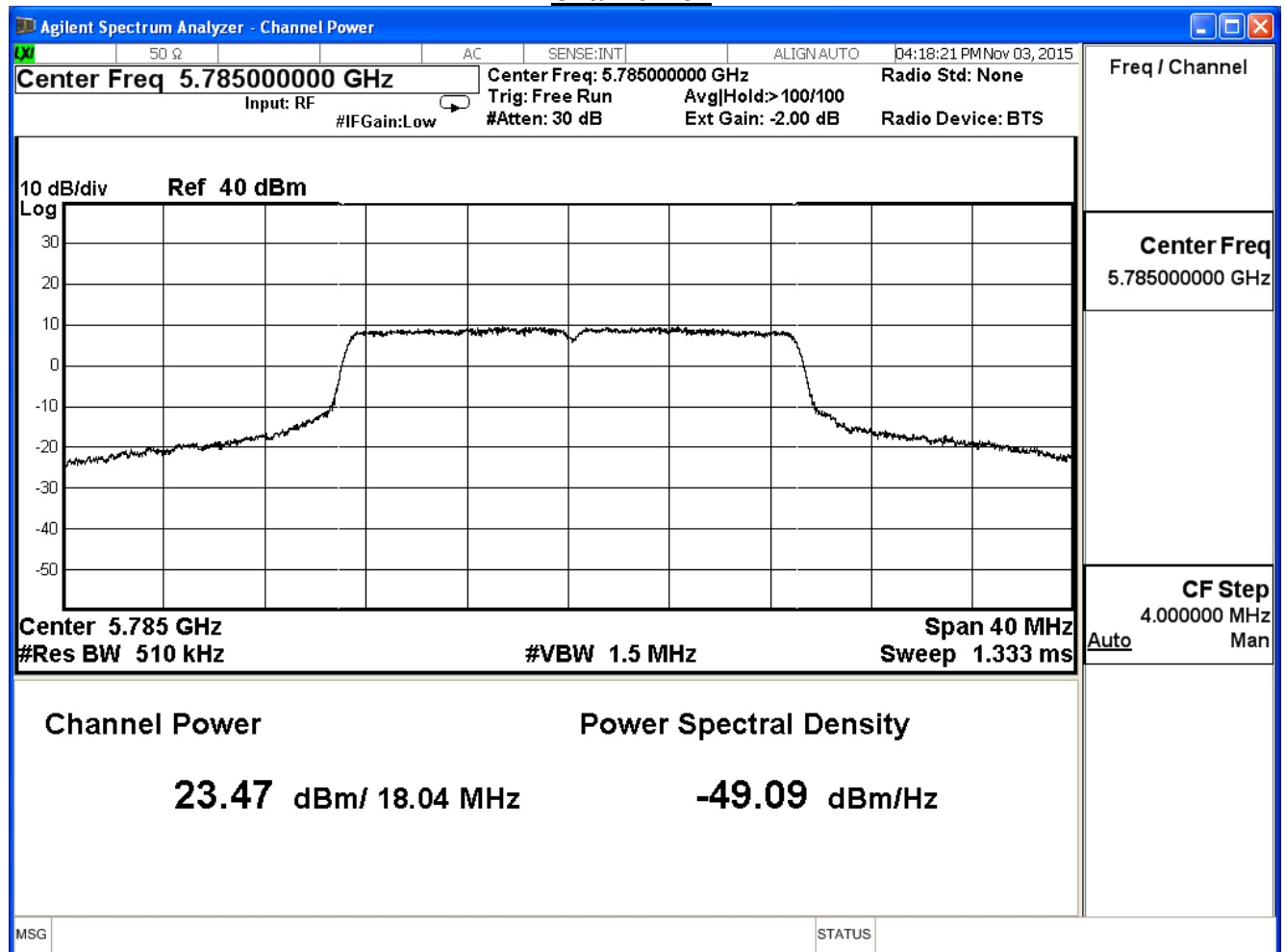
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	23.53	--	--	--	--	--	--	--	≤30dBm
157	5785	23.47	23.37	23.25	23.05	22.95	22.69	22.45	22.33	
165	5825	23.53	--	--	--	--	--	--	--	

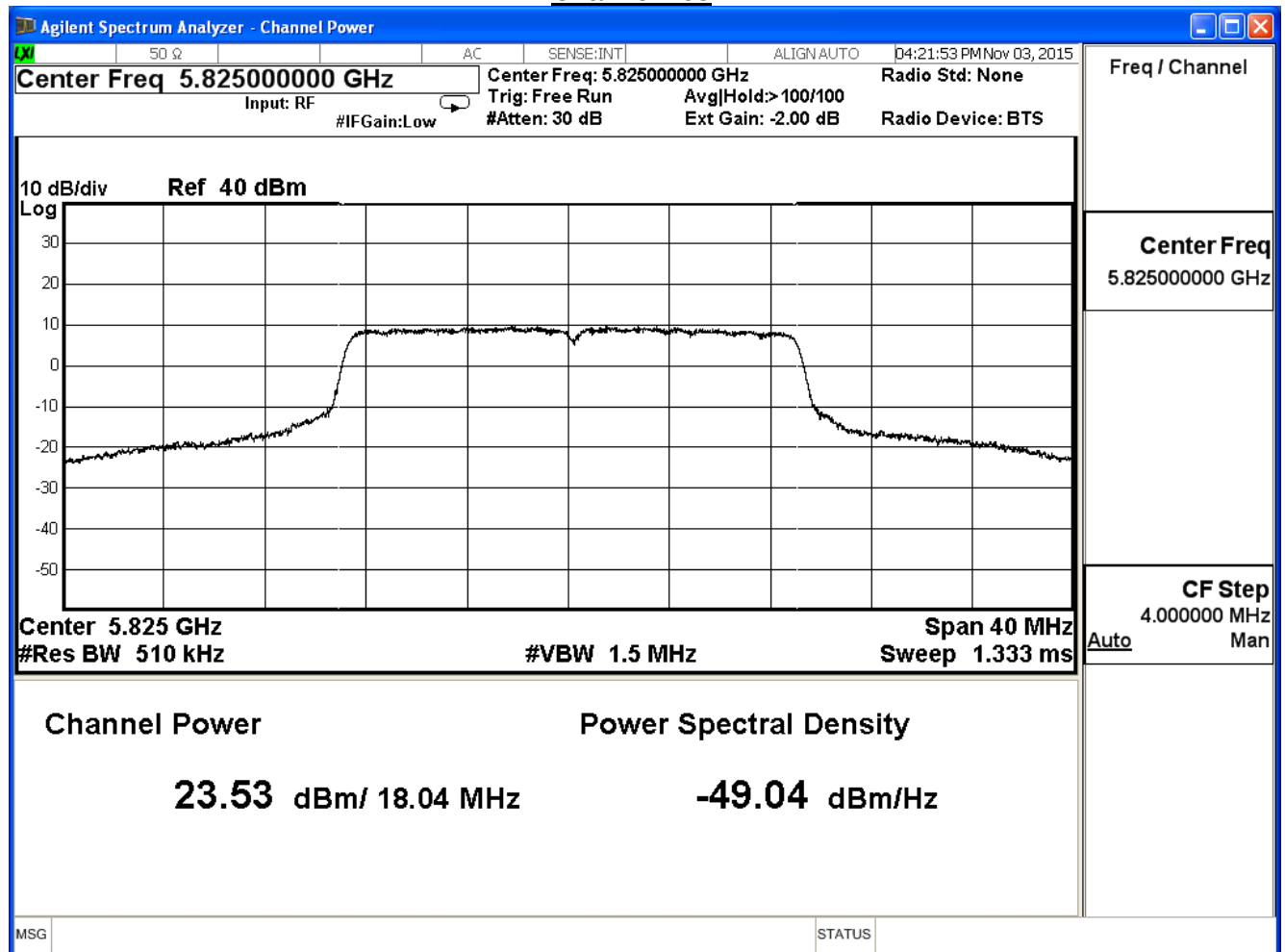
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/06	Test Site	SR7

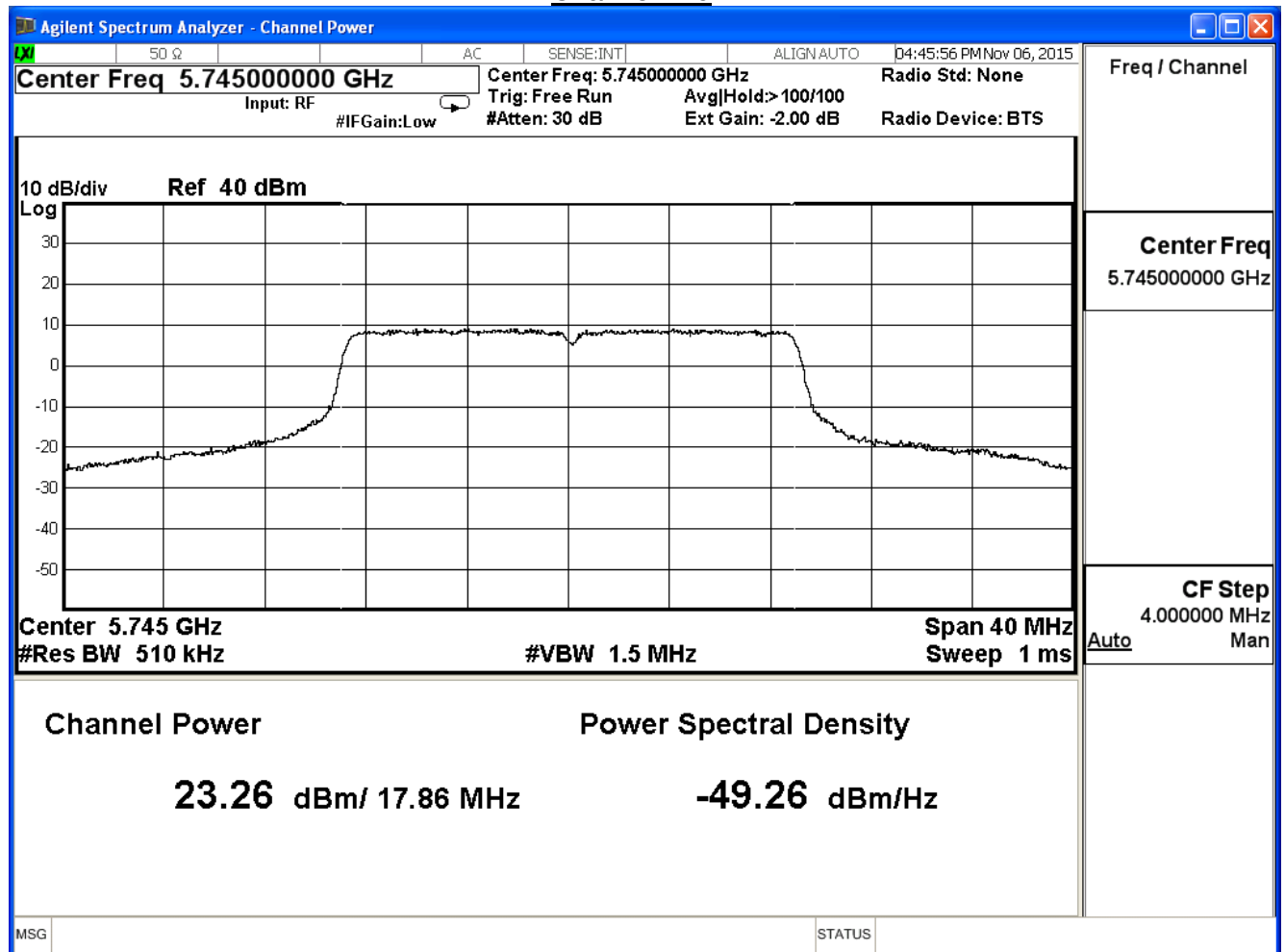
IEEE 802.11n_20M (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.26	≤30
157	5785	23.14	≤30
165	5825	23.08	≤30

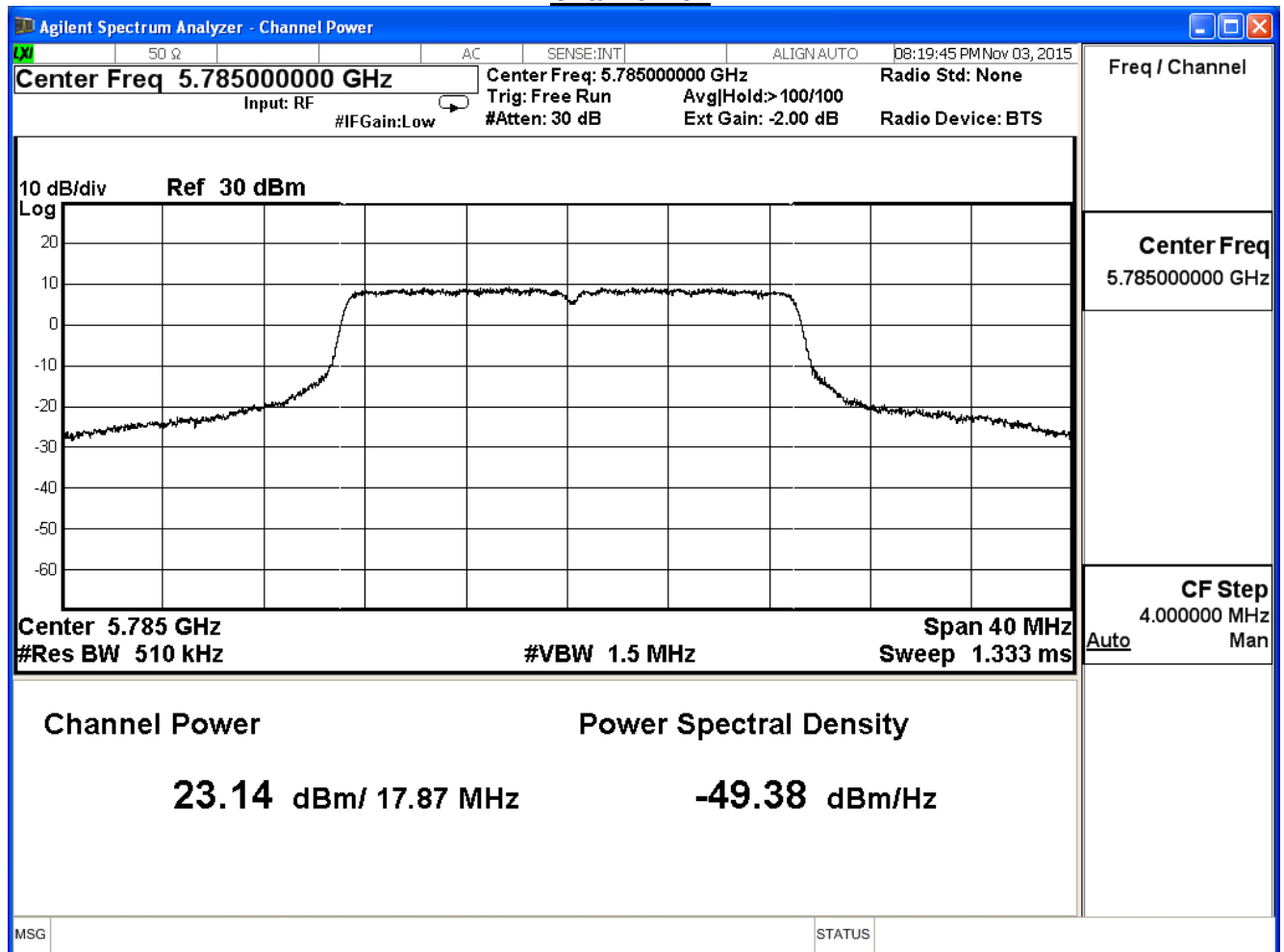
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	23.26	--	--	--	--	--	--	--	≤30dBm
157	5785	23.14	23.04	22.84	22.72	22.62	22.50	22.26	22.14	
165	5825	23.08	--	--	--	--	--	--	--	

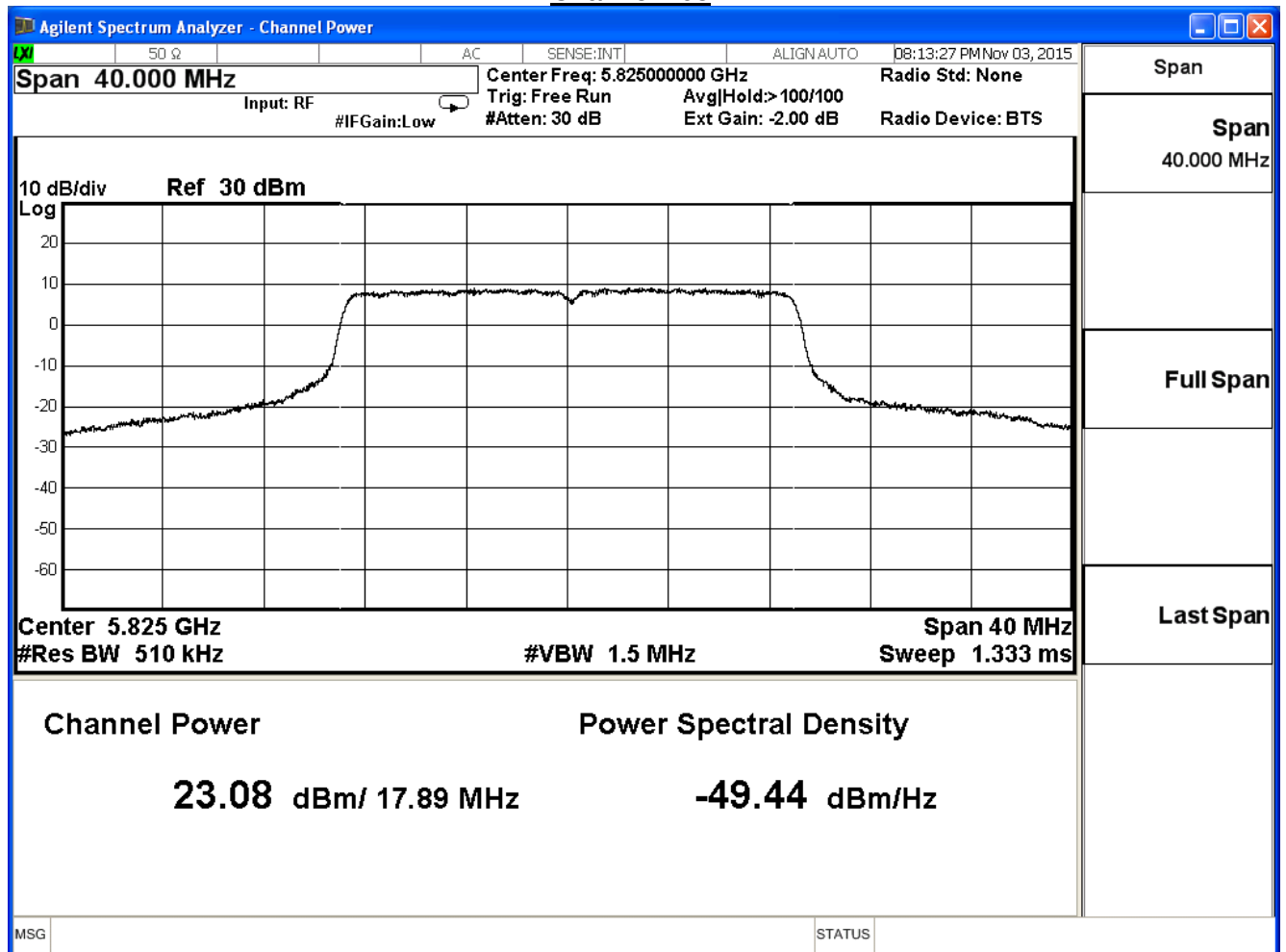
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/06	Test Site	SR7

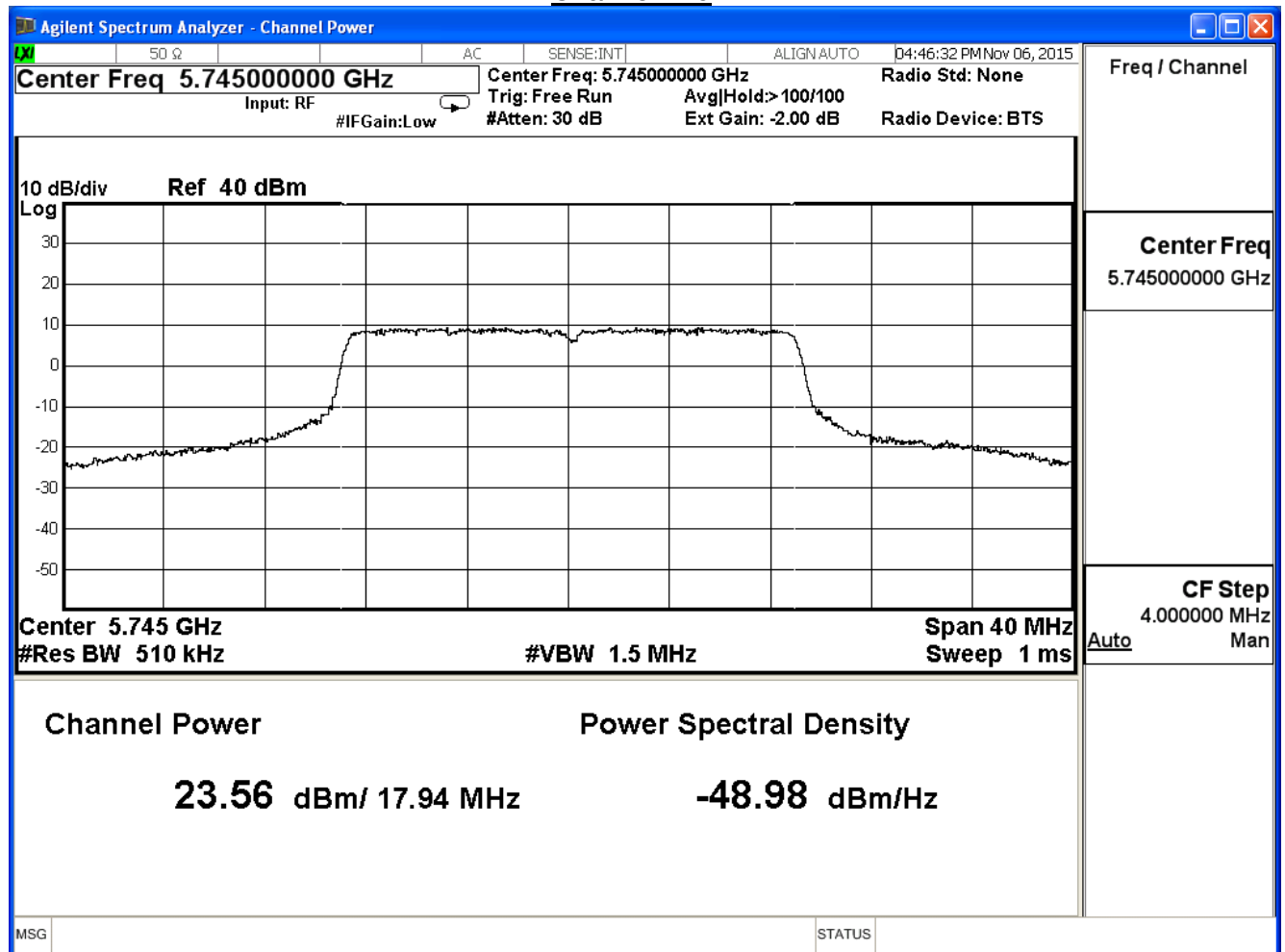
IEEE 802.11n_20M (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	23.56	≤30
157	5785	23.19	≤30
165	5825	22.97	≤30

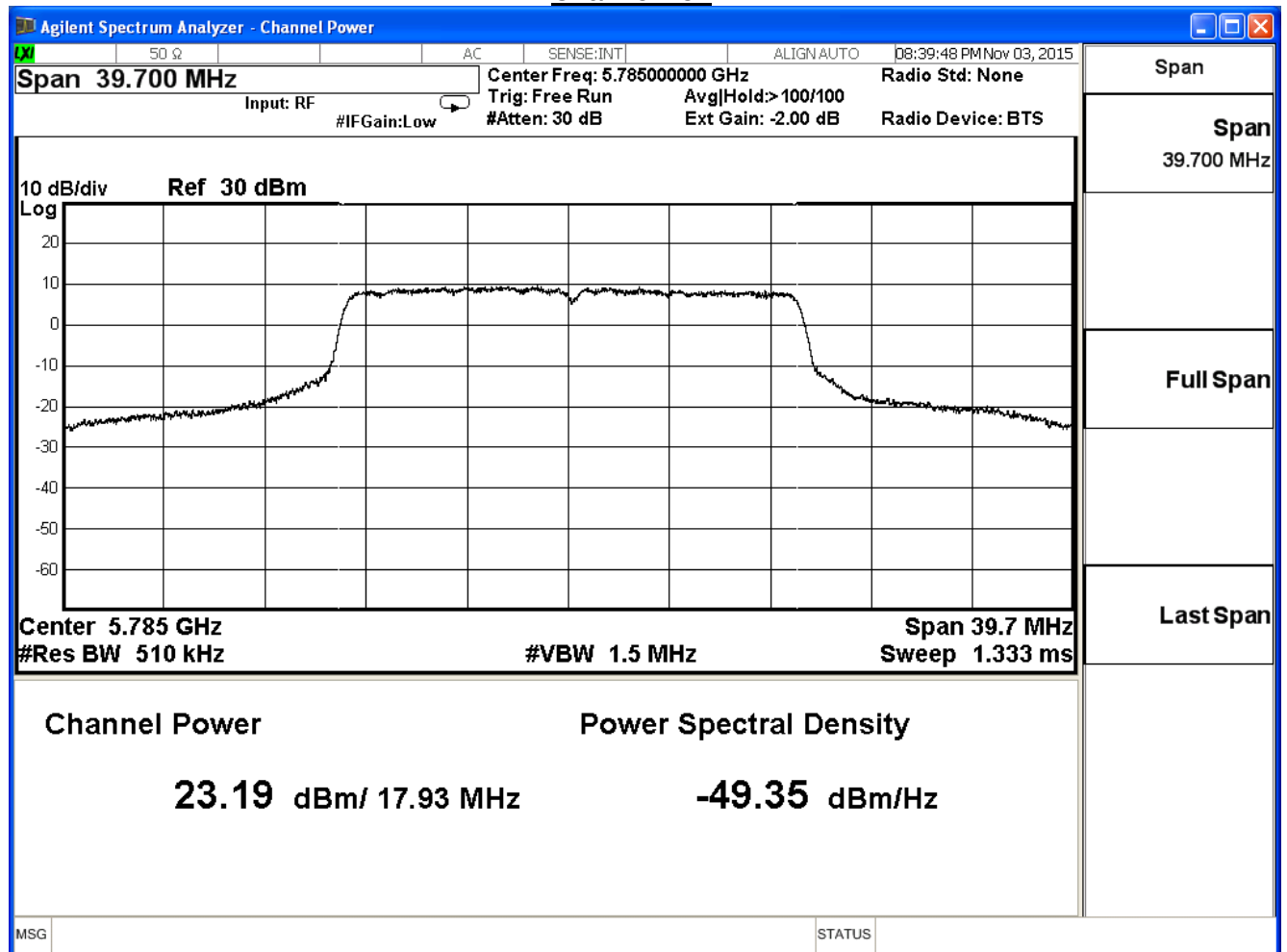
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	23.56	--	--	--	--	--	--	--	≤30dBm
157	5785	23.19	23.09	22.89	22.77	22.67	22.43	22.19	21.95	
165	5825	22.97	--	--	--	--	--	--	--	

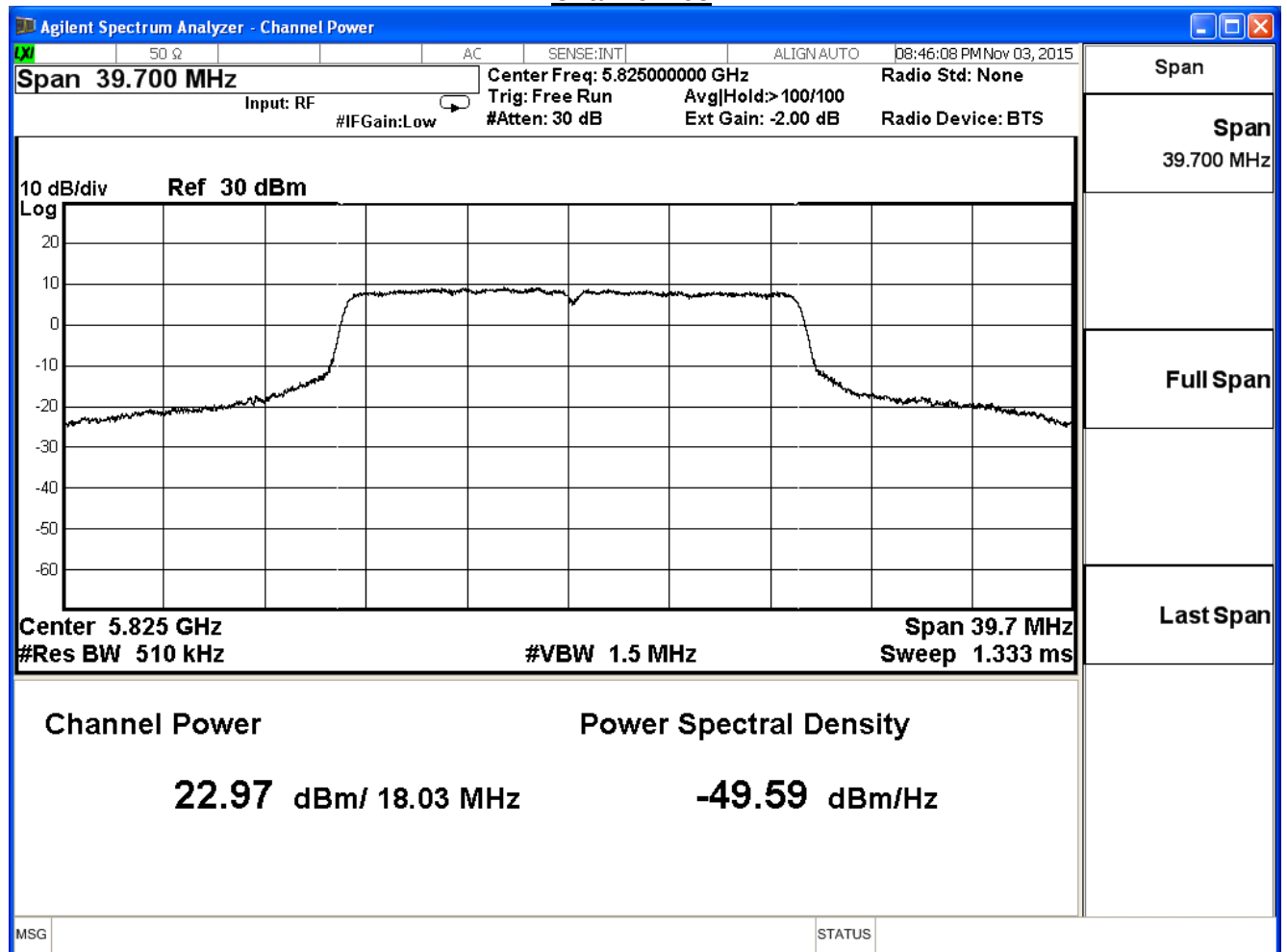
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/06	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	29.47	≤30
157	5785	29.31	≤30
165	5825	29.32	≤30

The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	29.47	--	--	--	--	--	--	--	≤30dBm
157	5785	29.31	29.13	28.98	28.84	28.71	28.53	28.34	28.16	
165	5825	29.32	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

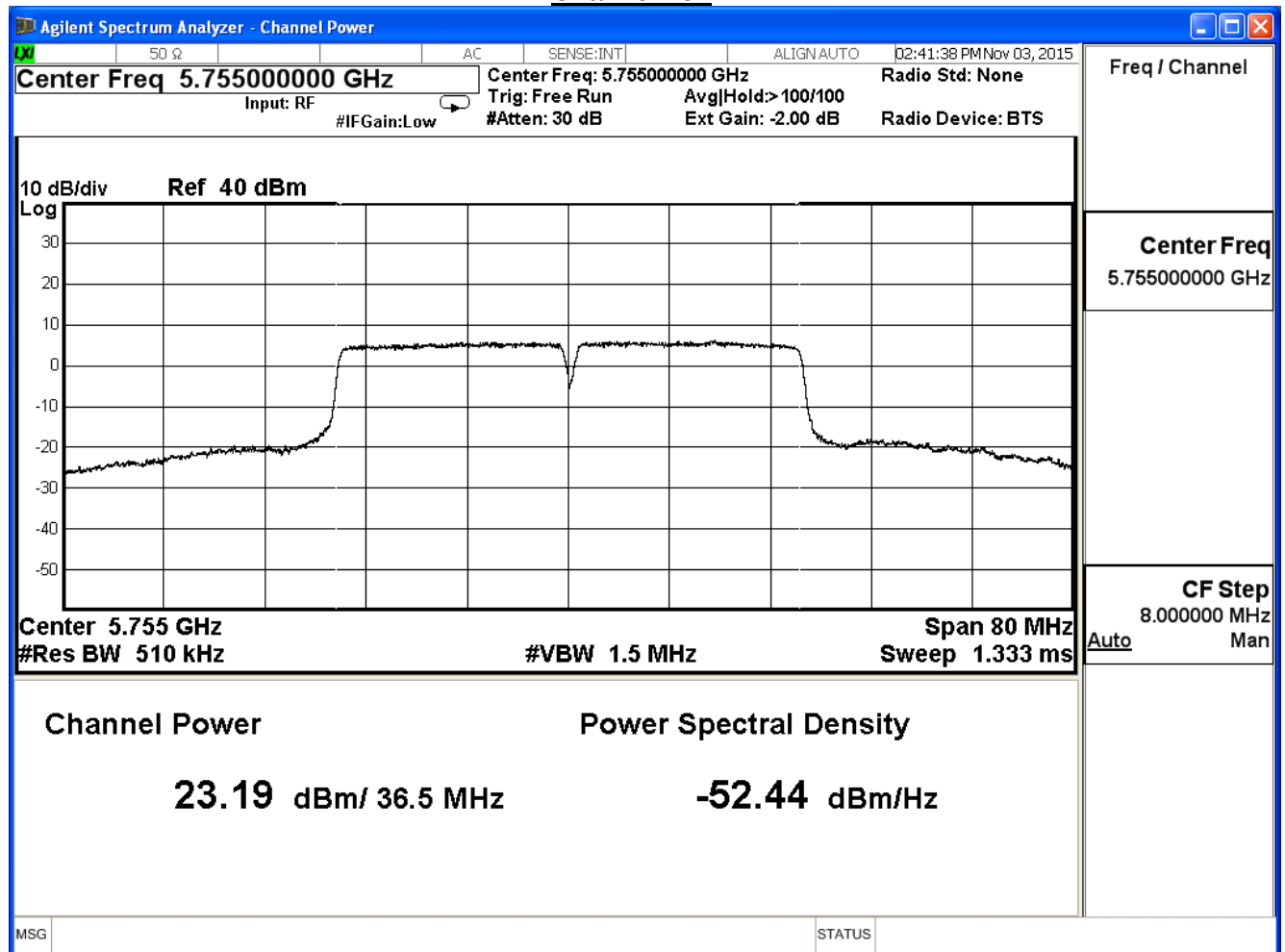
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	23.19	≤30
159	5795	23.52	≤30

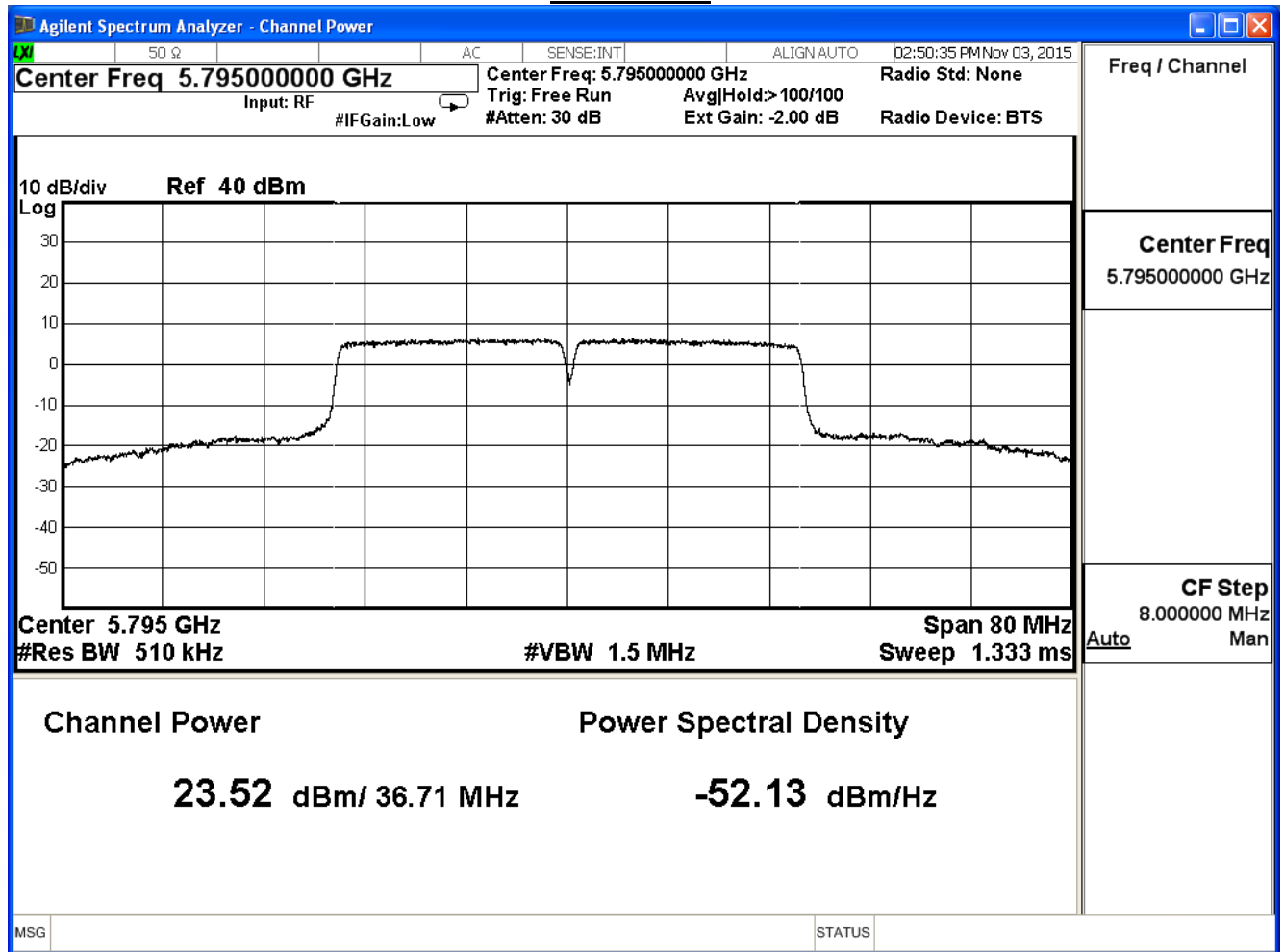
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.19	--	--	--	--	--	--	--	≤30dBm
159	5795	23.52	23.32	23.12	22.92	22.82	22.70	22.46	22.34	

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

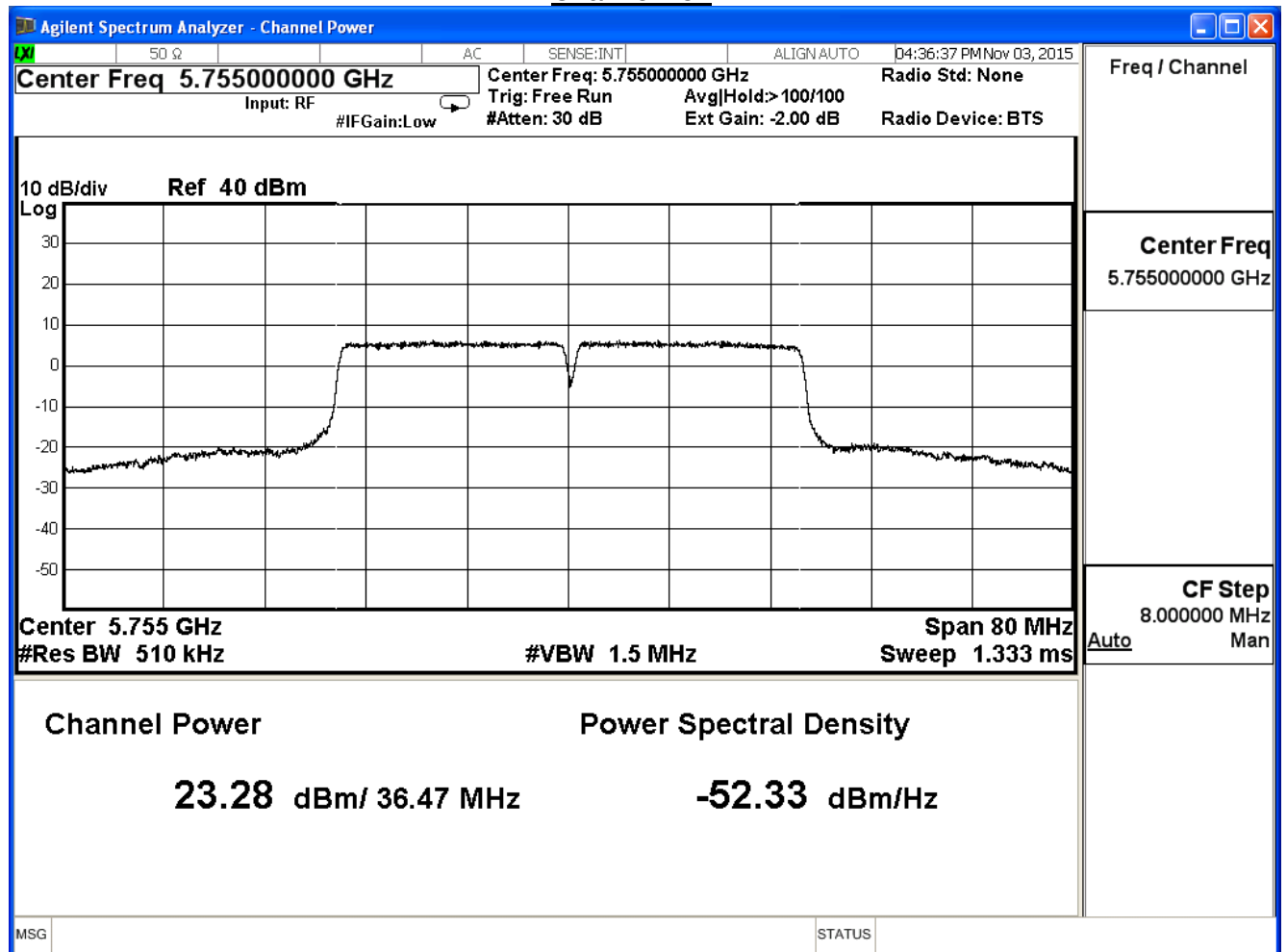
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	23.28	≤30
159	5795	23.53	≤30

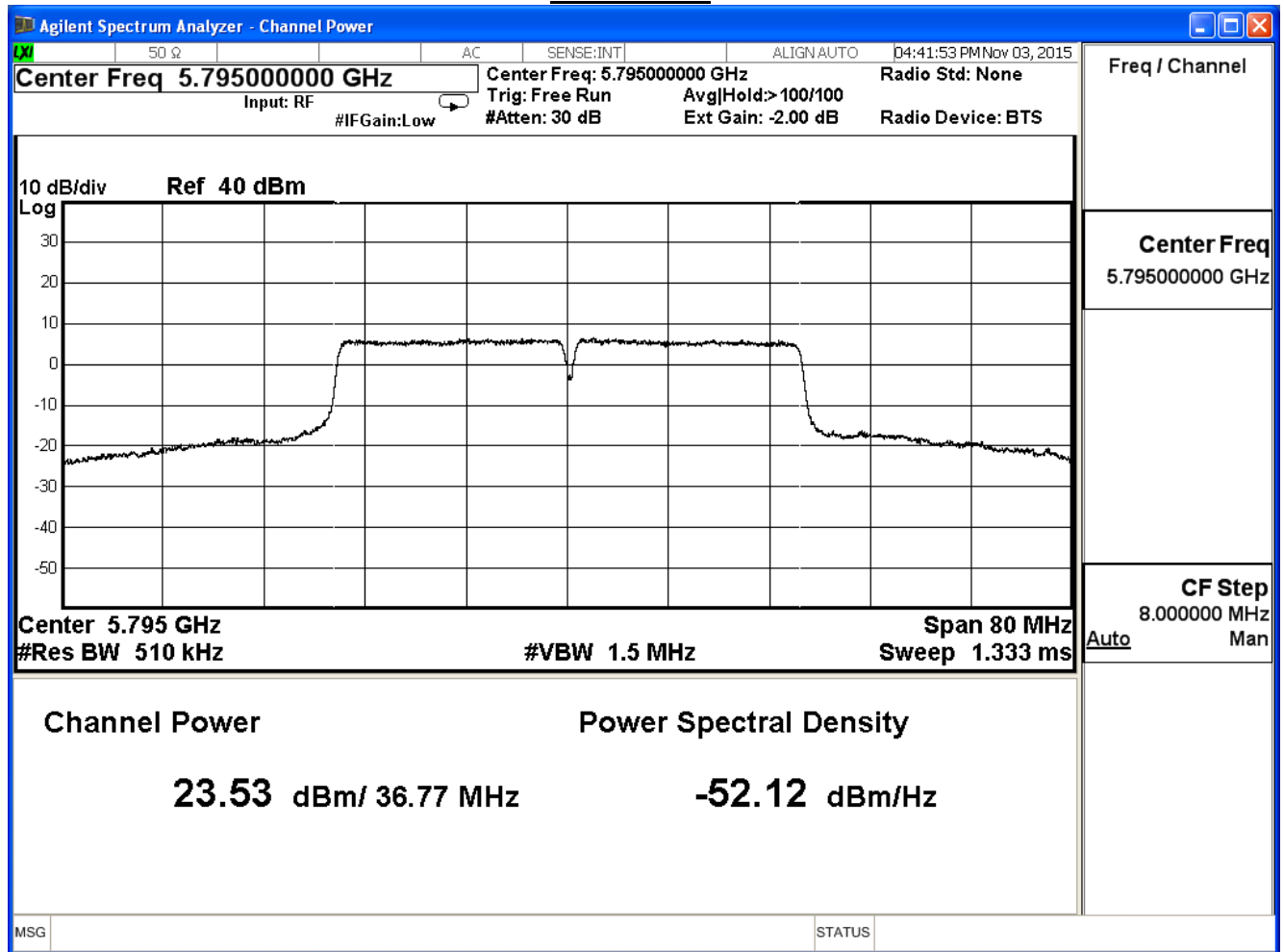
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.28	--	--	--	--	--	--	--	≤30dBm
.159	5794	23.53	23.33	23.13	23.03	22.93	22.69	22.57	22.33	

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

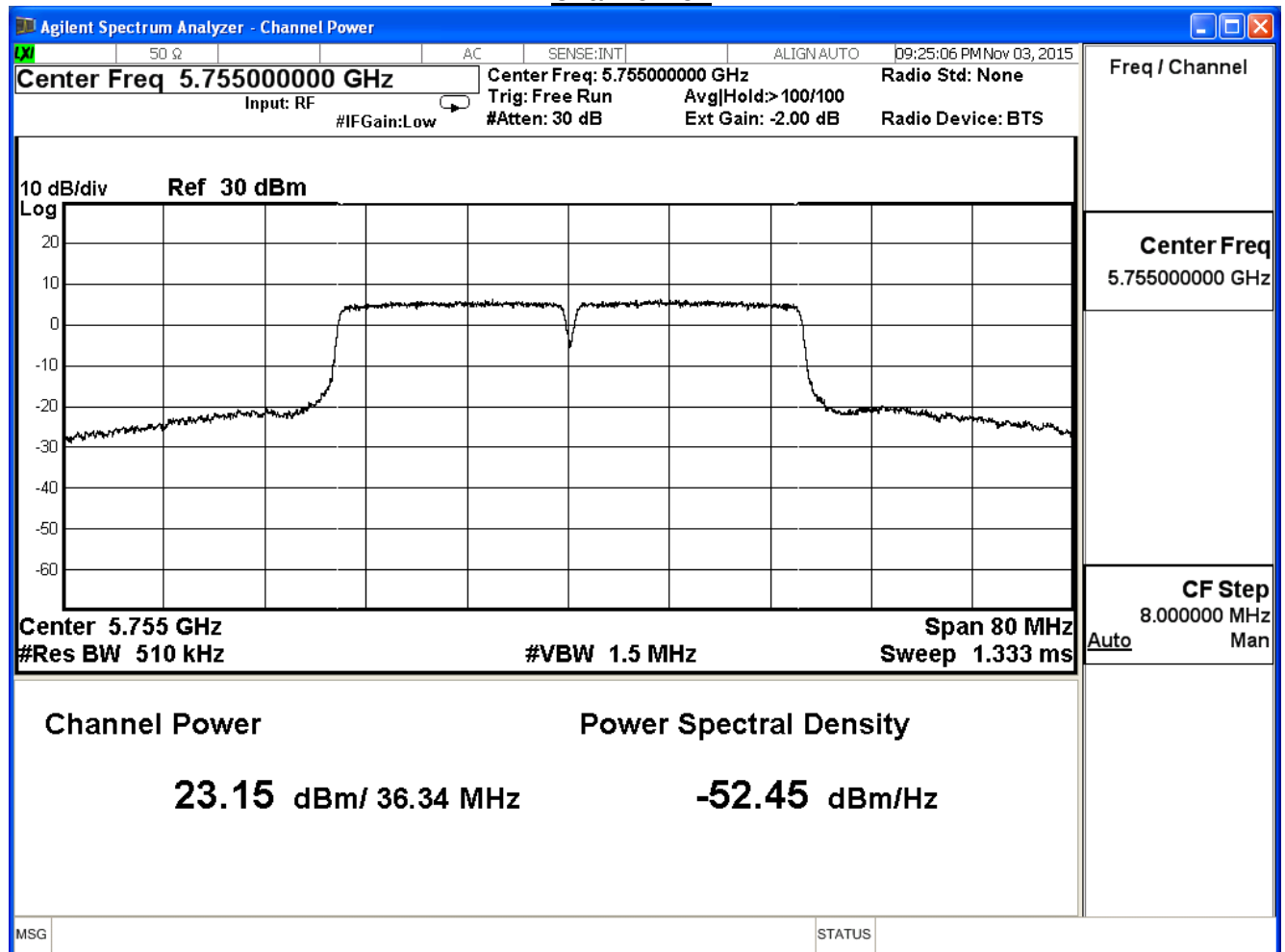
IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	23.15	≤30
159	5795	23.36	≤30

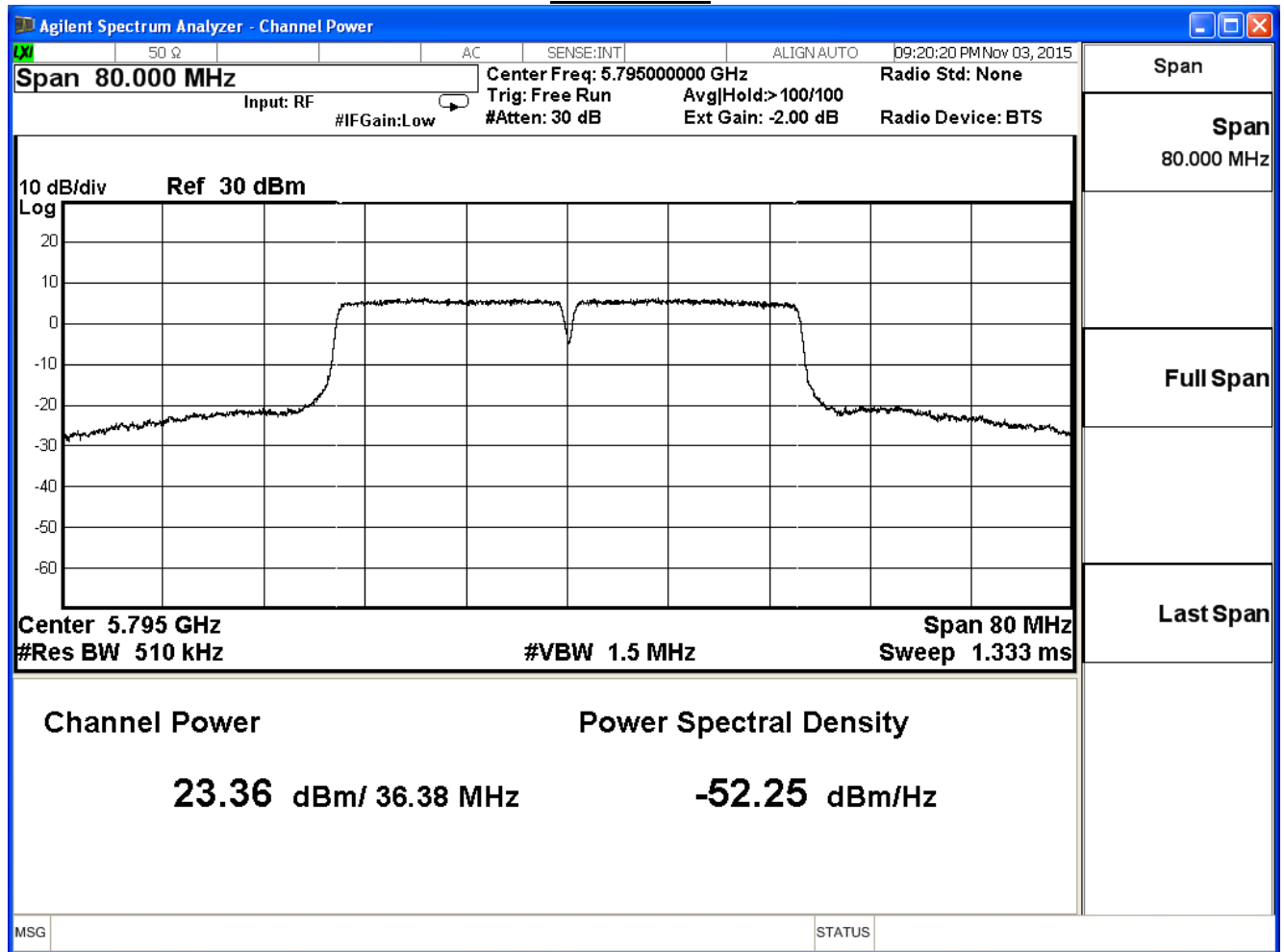
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.15	--	--	--	--	--	--	--	≤30dBm
159	5795	23.36	23.26	23.06	22.86	22.66	22.54	22.42	22.18	

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

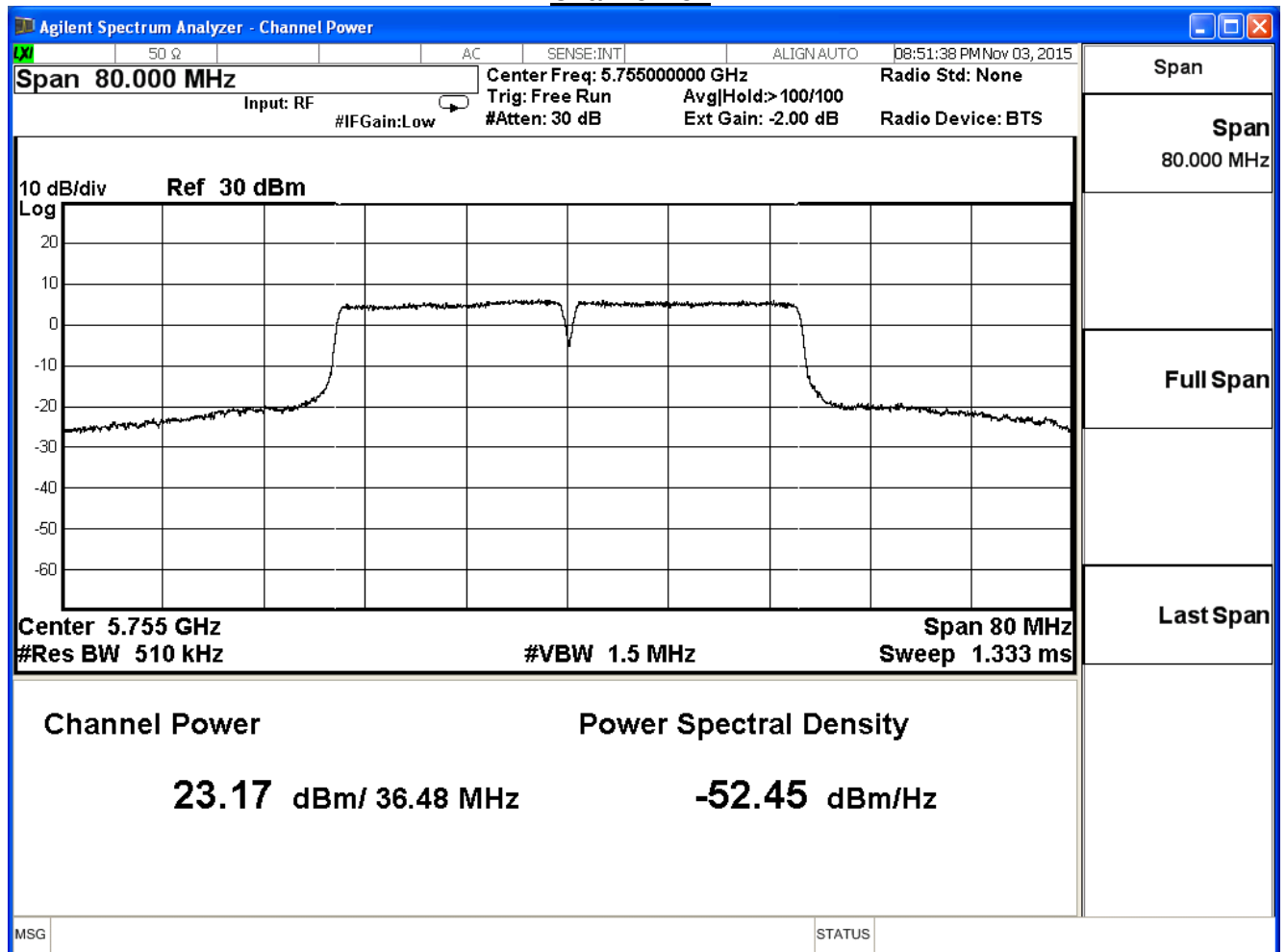
IEEE802.11n 40MHz(ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	23.17	≤30
159	5795	23.44	≤30

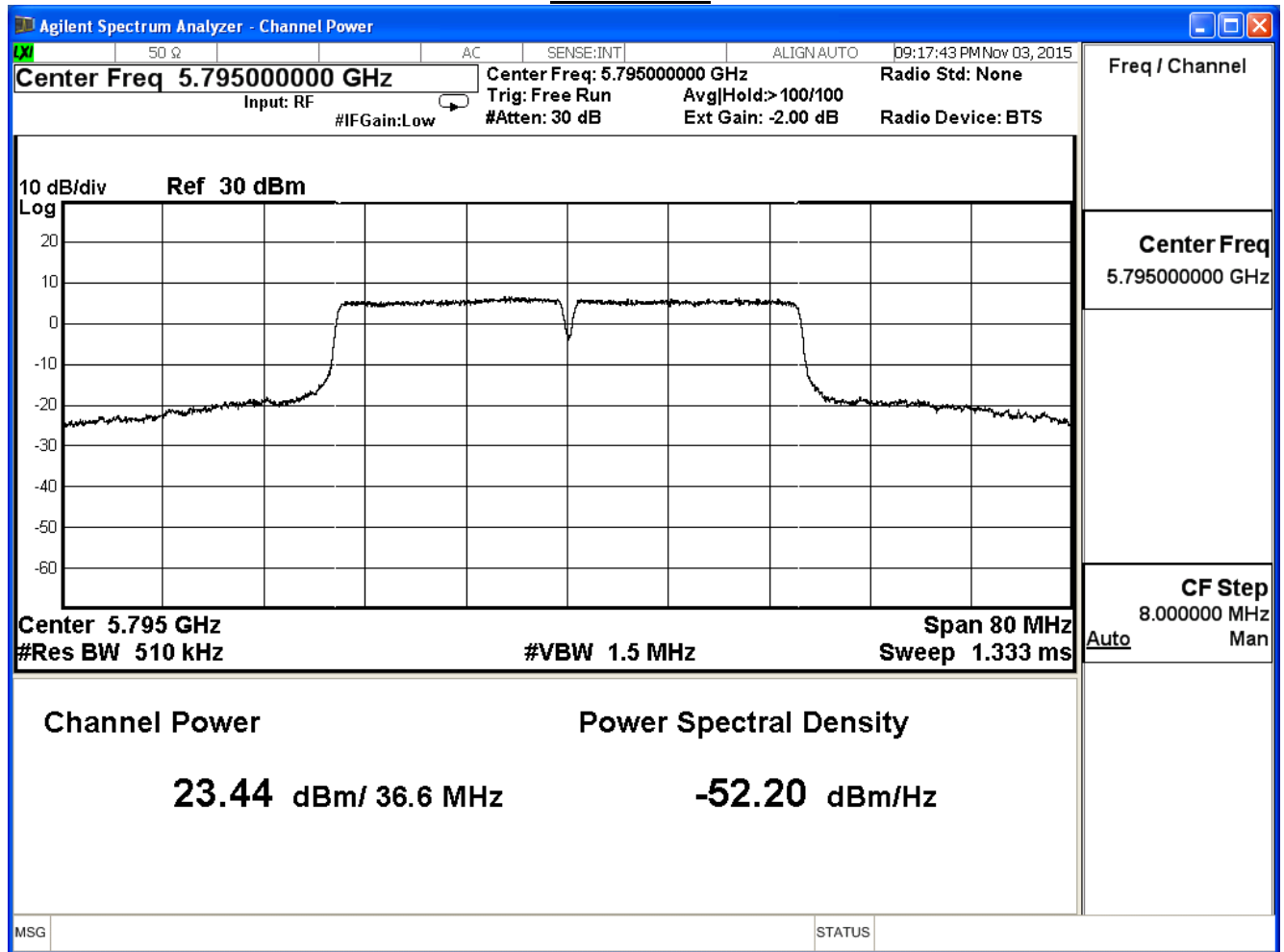
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.17	--	--	--	--	--	--	--	≤30dBm
159	5795	23.44	23.34	23.24	23.14	22.94	22.82	22.70	22.58	

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	29.22	≤30
159	5795	29.48	≤30

The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	29.22	--	--	--	--	--	--	--	≤30dBm
159	5795	29.48	29.33	29.16	29.01	28.86	28.71	28.56	28.38	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2016/03/25	Test Site	SR7

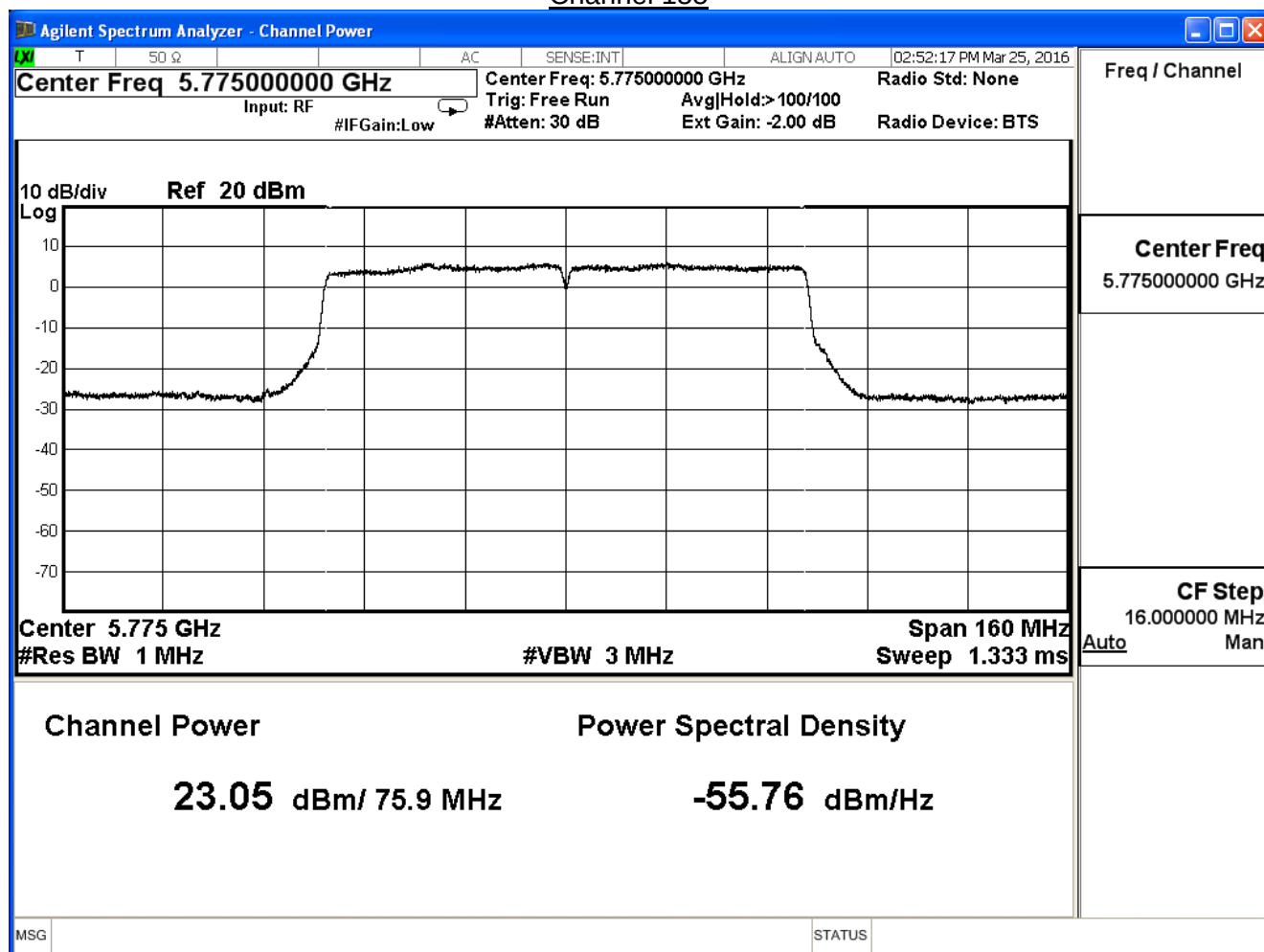
IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.05	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤30dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	23.05	22.75	22.41	22.03	21.63	21.29	21.07	20.65	20.17	19.92	

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2016/03/25	Test Site	SR7

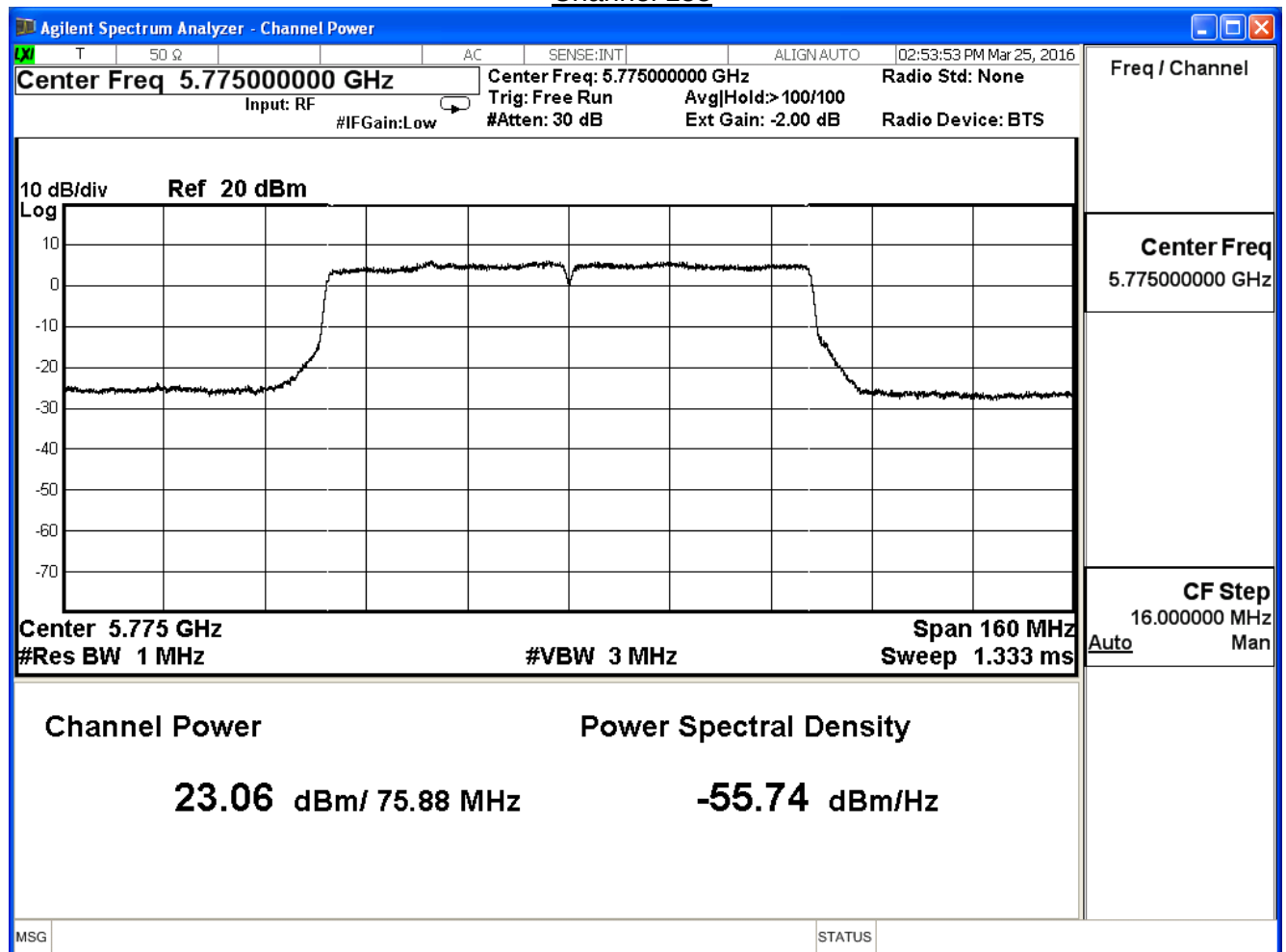
IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.06	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤30dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	23.06	22.76	22.42	22.04	21.84	21.67	21.45	21.03	20.55	20.05	

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2016/03/25	Test Site	SR7

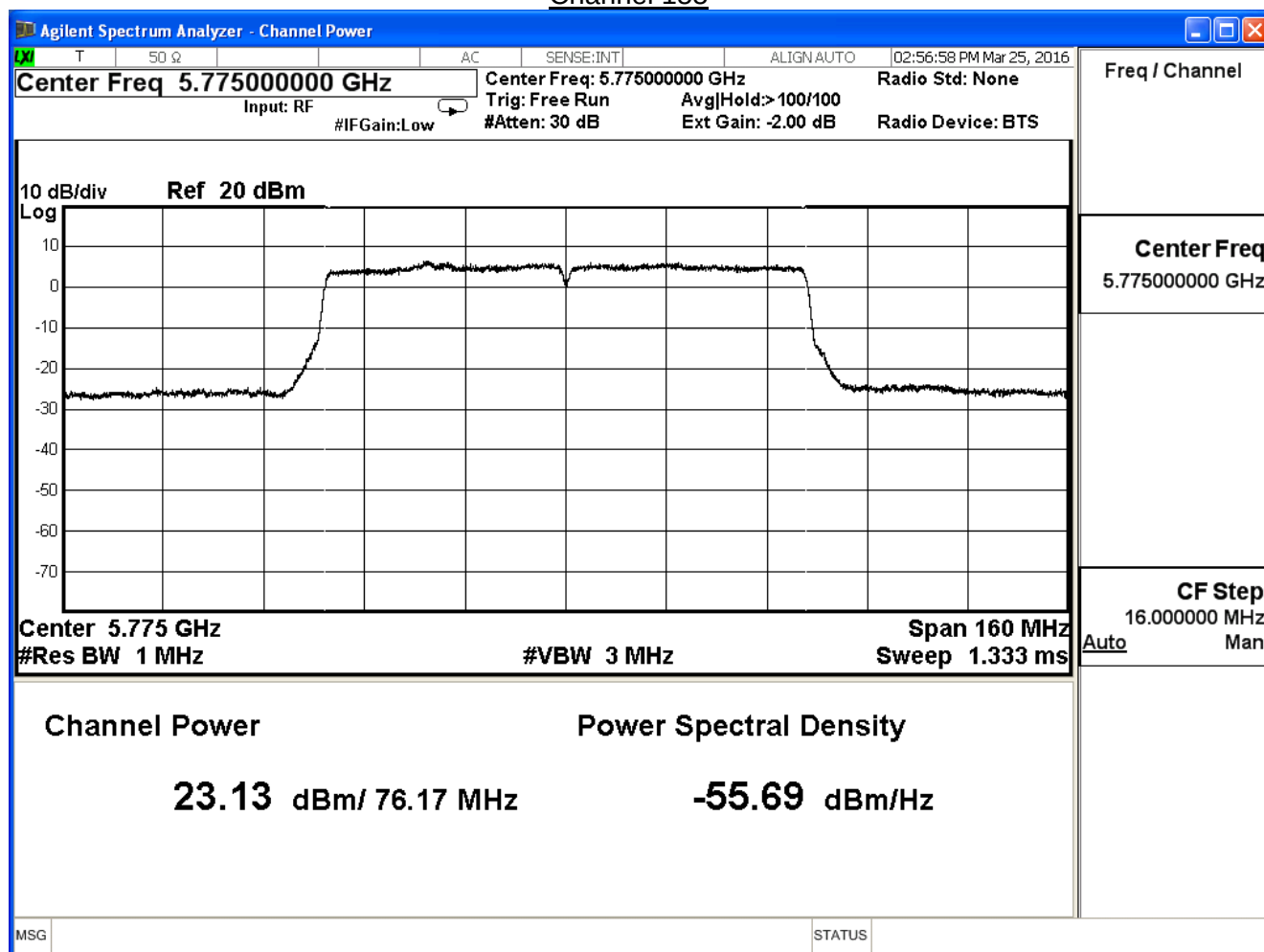
IEEE 802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.13	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤30dBm
155	5775	29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
		23.13	22.98	22.81	22.43	22.23	21.89	21.45	21.24	20.76	20.26	

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2016/03/25	Test Site	SR7

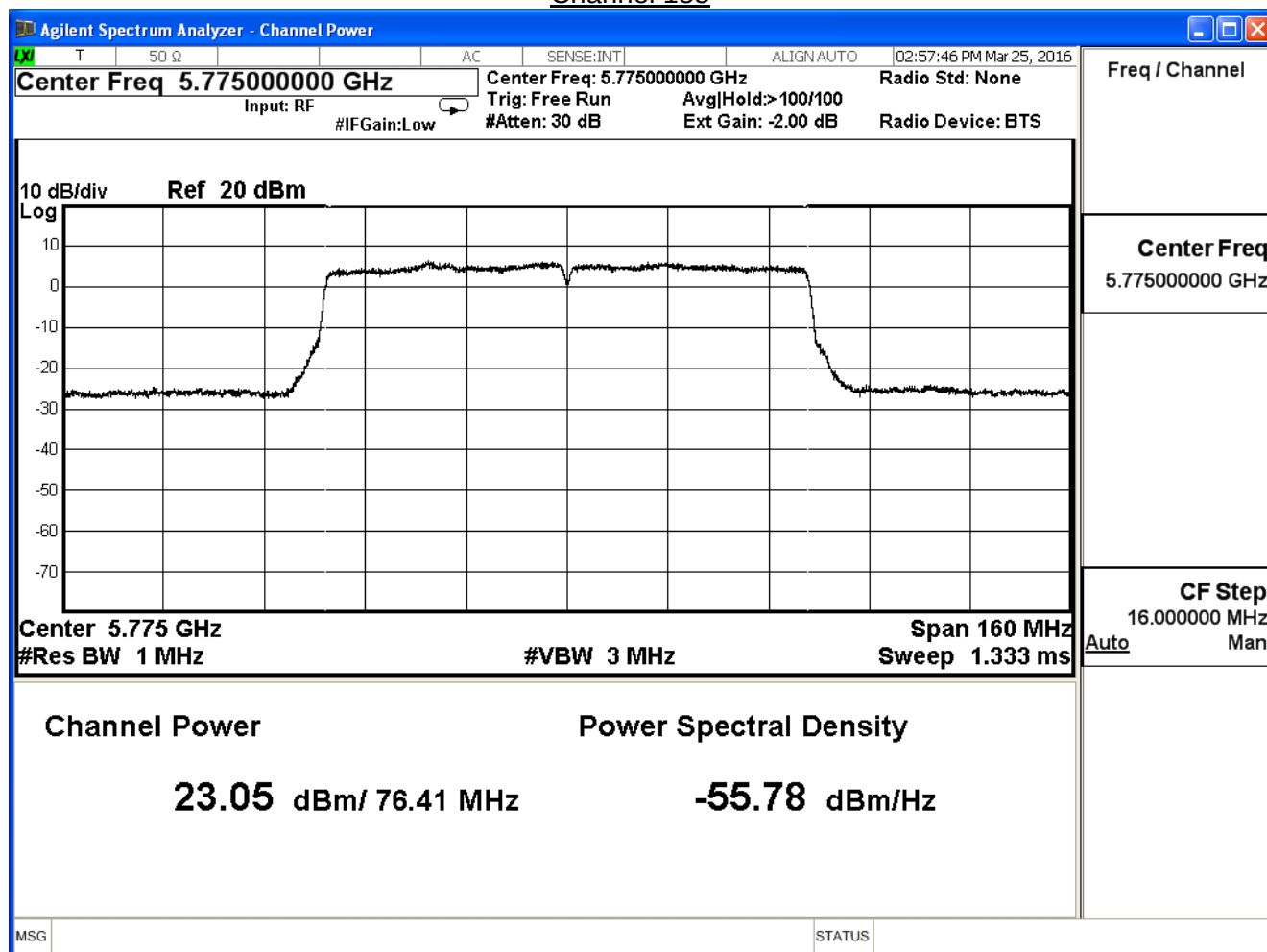
IEEE 802.11ac 80MHz (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.05	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤30dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	23.05	22.75	22.58	22.20	21.80	21.46	21.02	20.60	20.36	20.11	

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2016/03/25	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	29.09	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Required Limit
Channel No	Frequency (MHz)	Data Rate										≤30dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	29.09	28.83	28.58	28.20	27.90	27.60	27.27	26.91	26.49	26.11	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	20.44	≤26.79
157	5785	20.41	≤26.79
165	5825	20.49	≤26.79

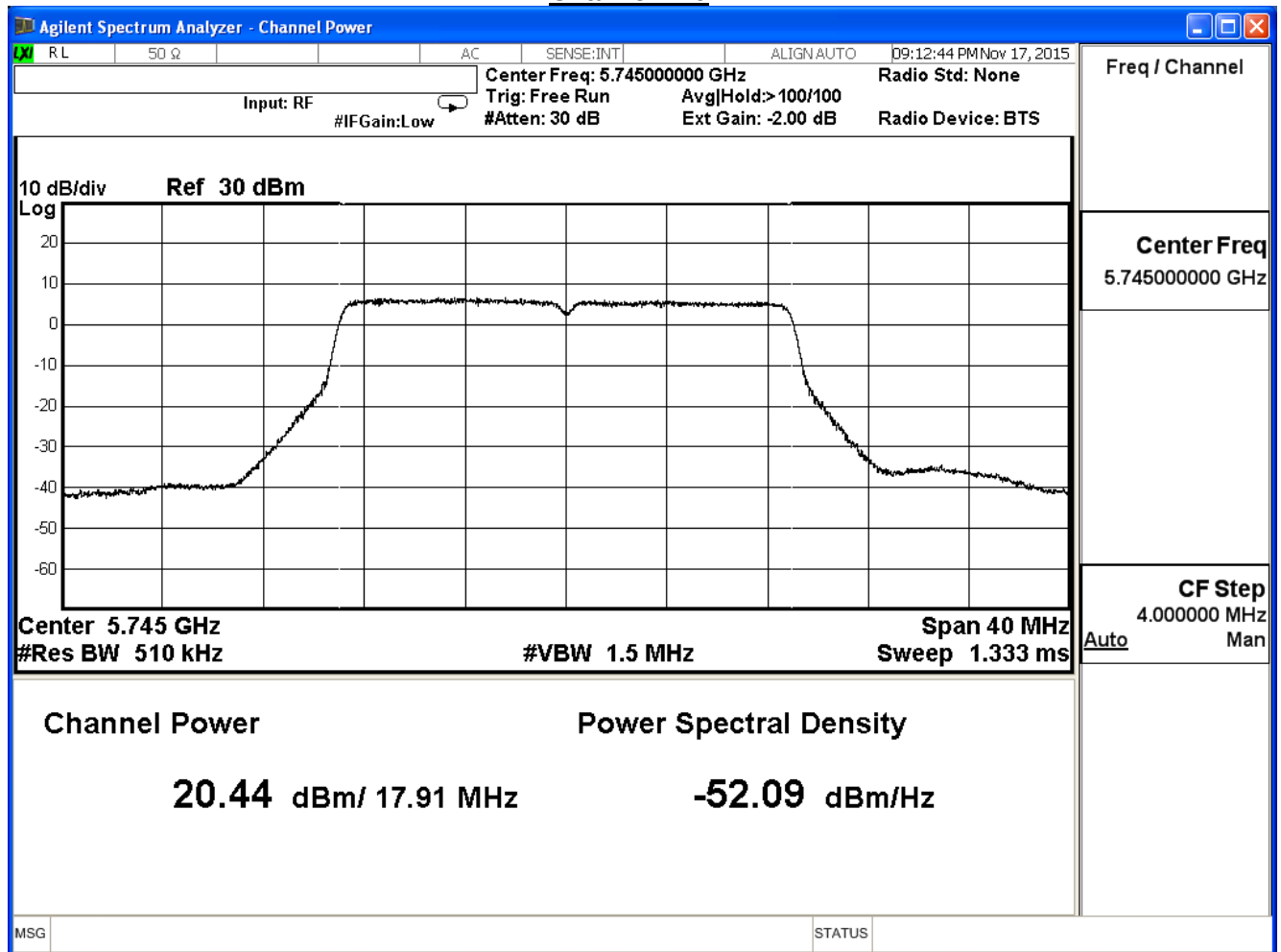
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
149	5745	20.44	--	--	--	--	--	--	--	≤26.79dBm
157	5785	20.41	20.35	20.16	20.05	19.80	19.51	19.36	19.17	
165	5825	20.49	--	--	--	--	--	--	--	

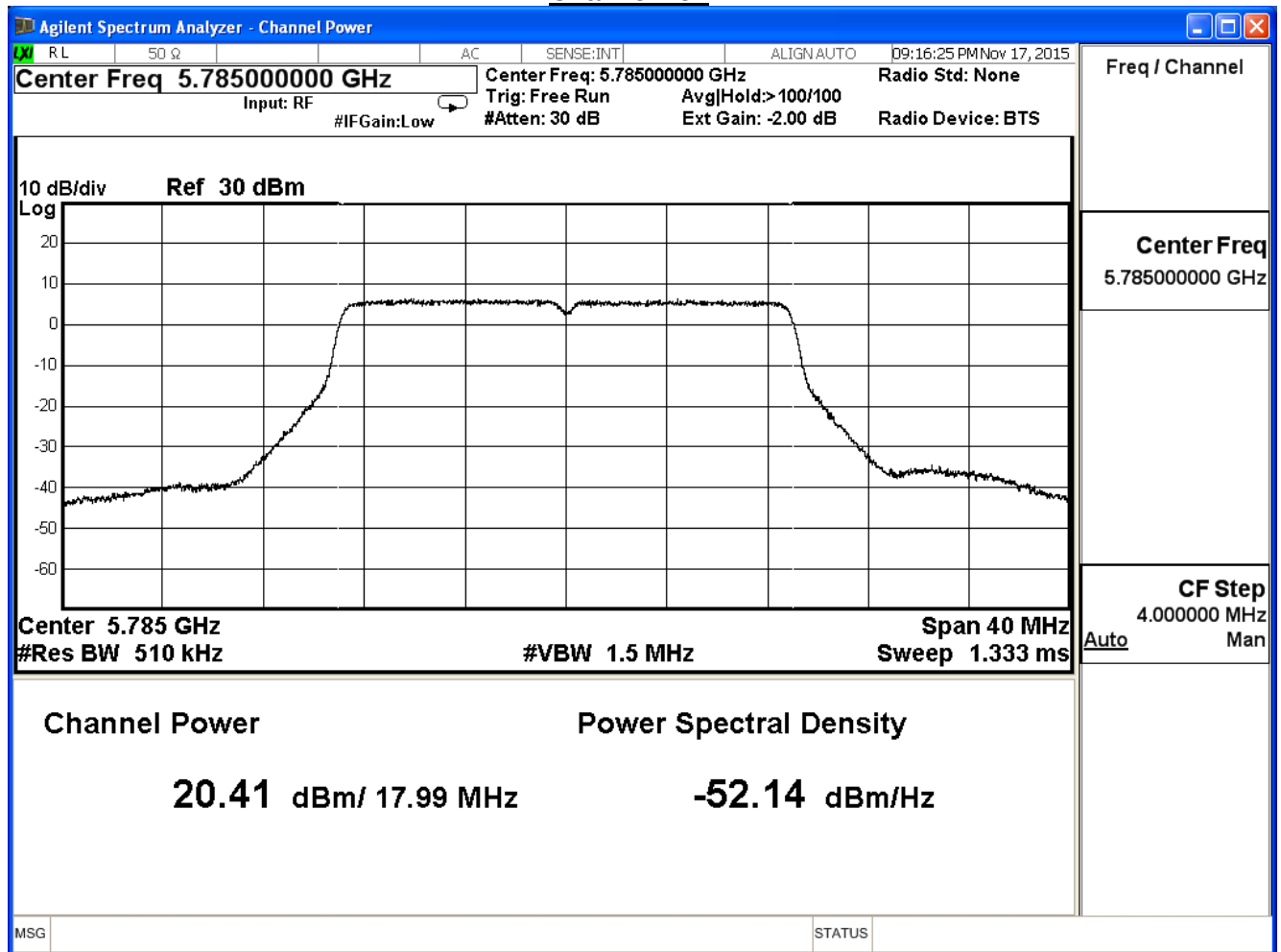
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

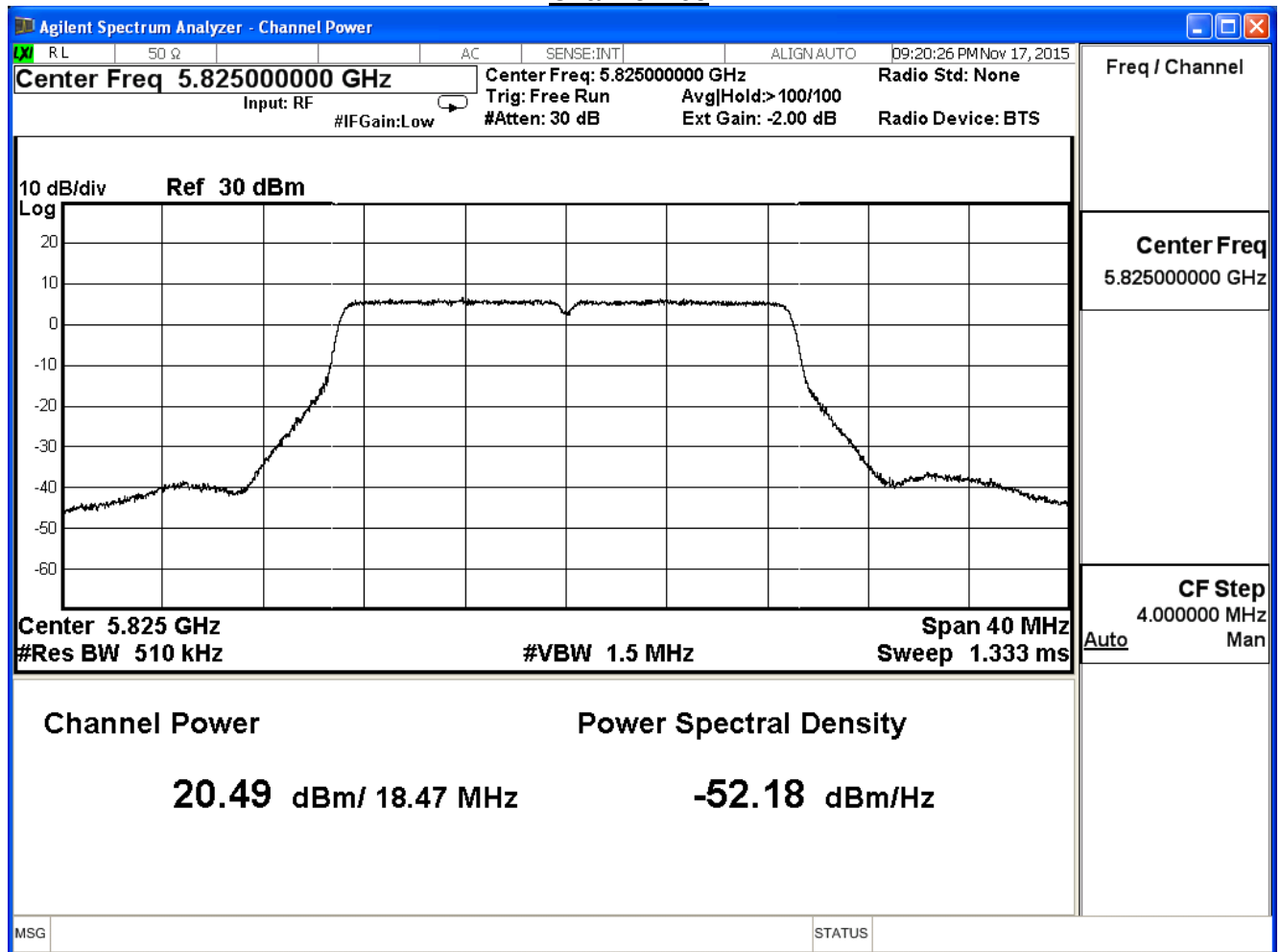
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	20.51	≤26.79
157	5785	20.78	≤26.79
165	5825	20.56	≤26.79

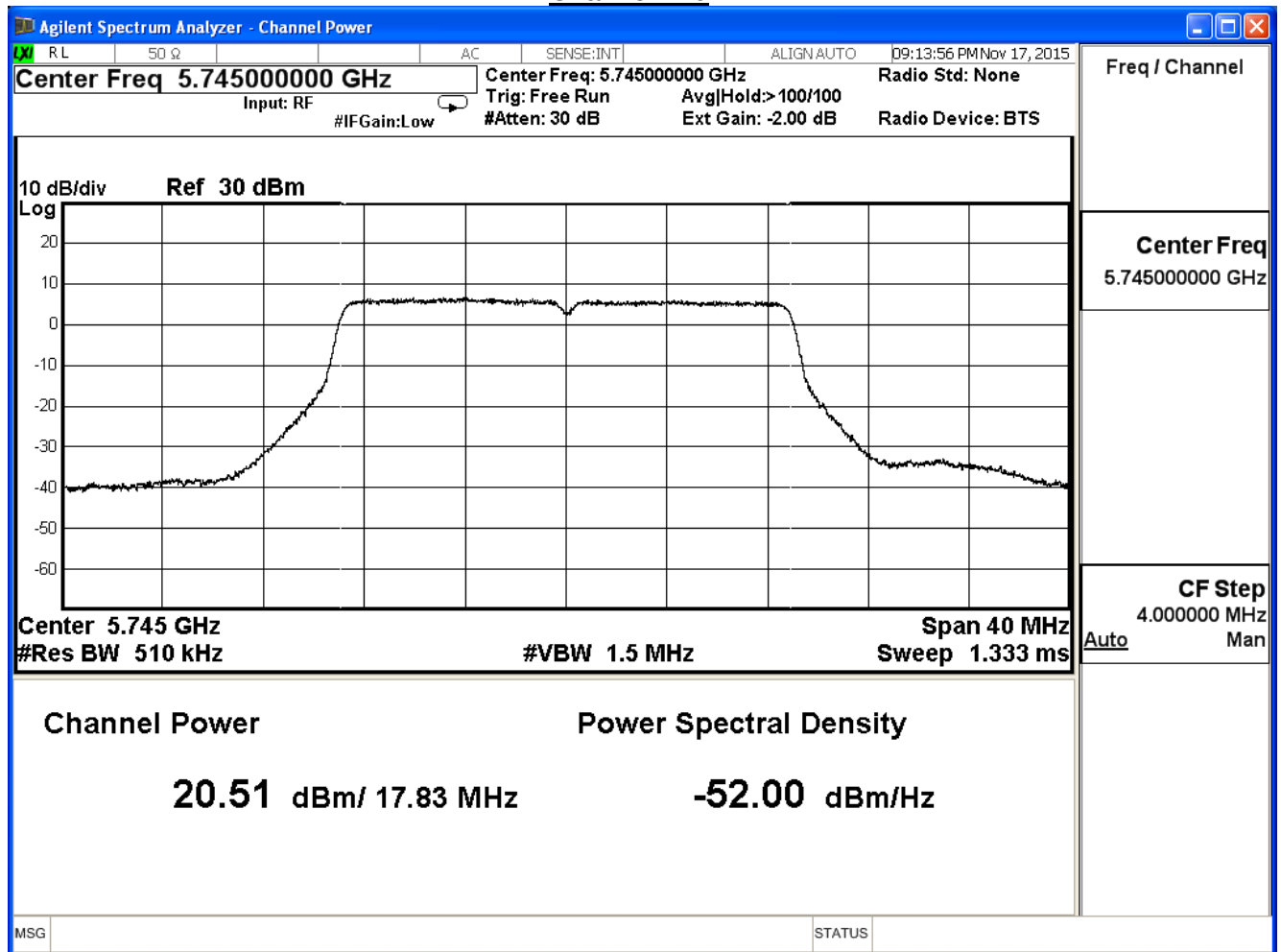
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	20.51	--	--	--	--	--	--	--	≤26.79dBm
157	5785	20.78	20.65	20.56	20.45	20.20	20.06	19.75	19.38	
165	5825	20.56	--	--	--	--	--	--	--	

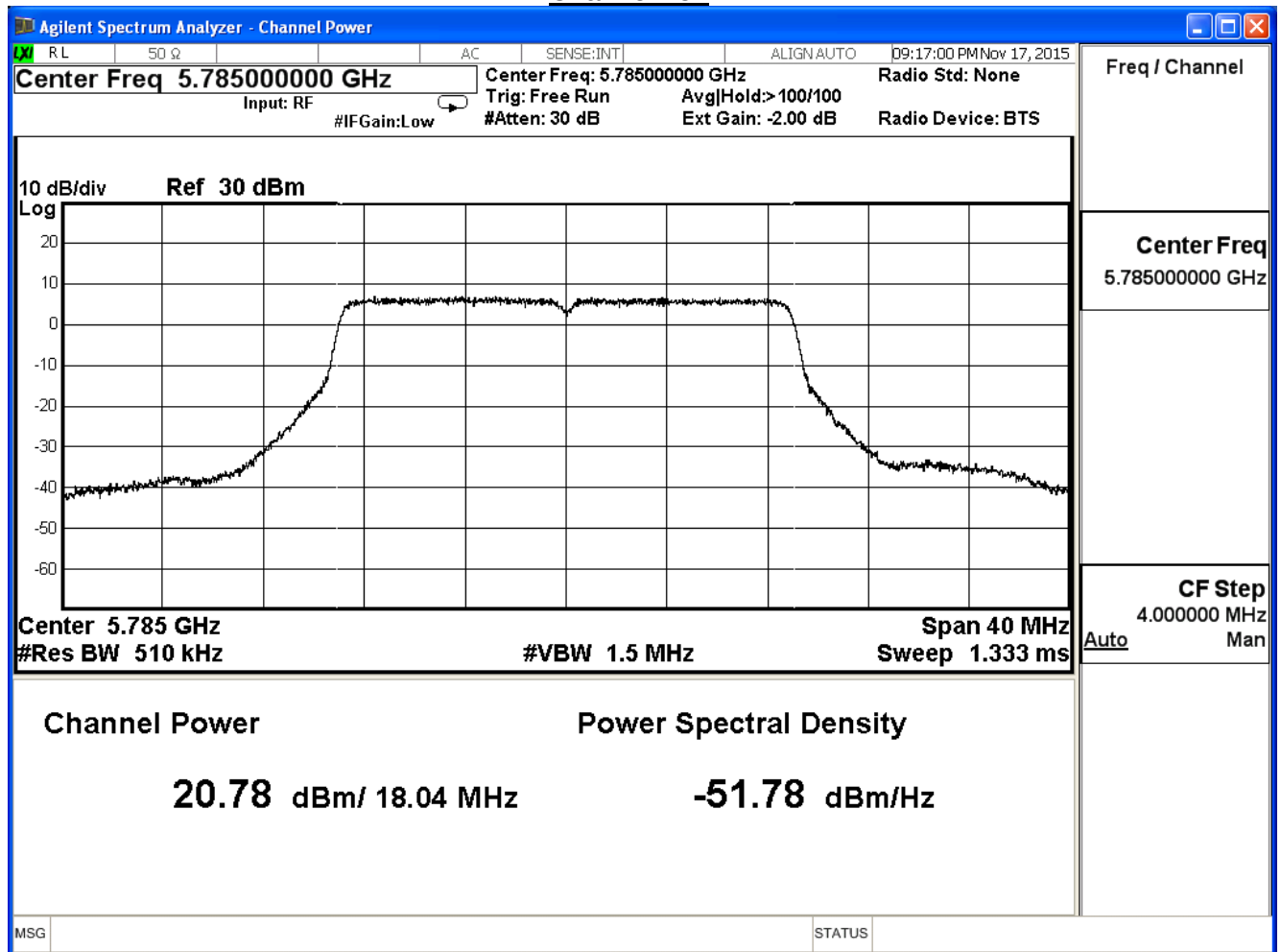
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

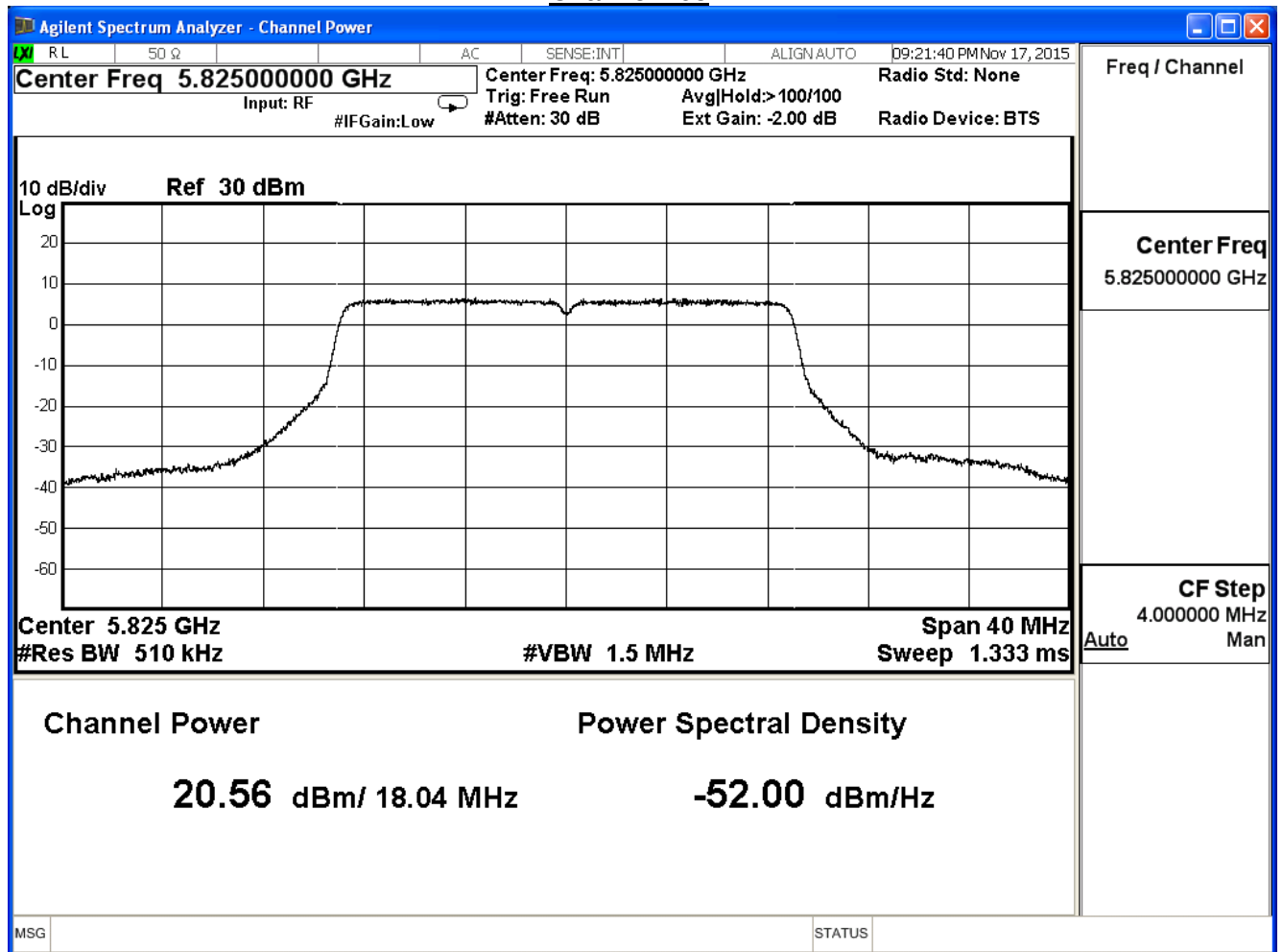
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11n_20M (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	20.53	≤26.79
157	5785	20.58	≤26.79
165	5825	20.55	≤26.79

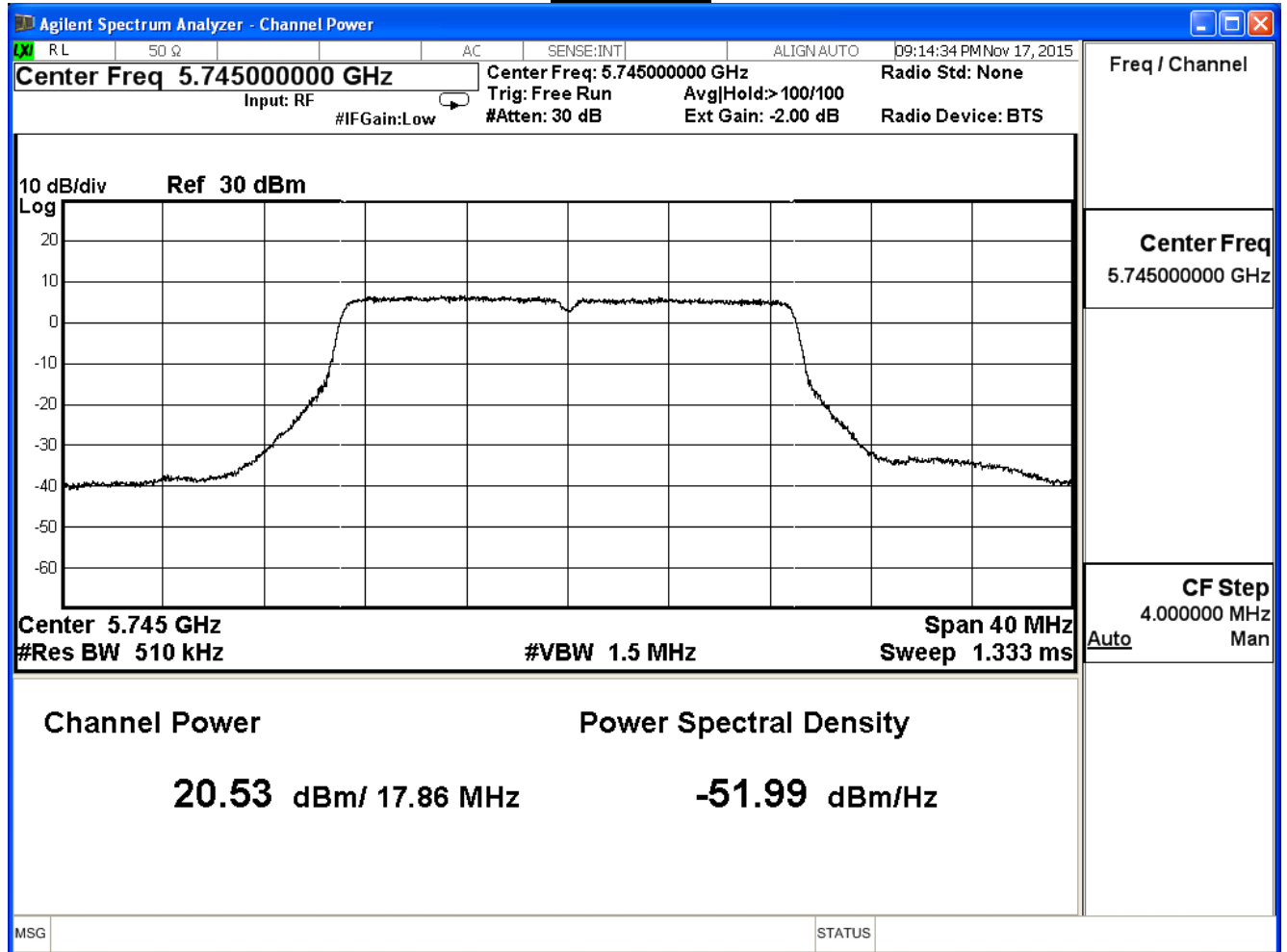
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	20.53	--	--	--	--	--	--	--	≤26.79dBm
157	5785	20.58	20.45	20.26	20.05	19.80	19.51	19.20	18.83	
165	5825	20.55	--	--	--	--	--	--	--	

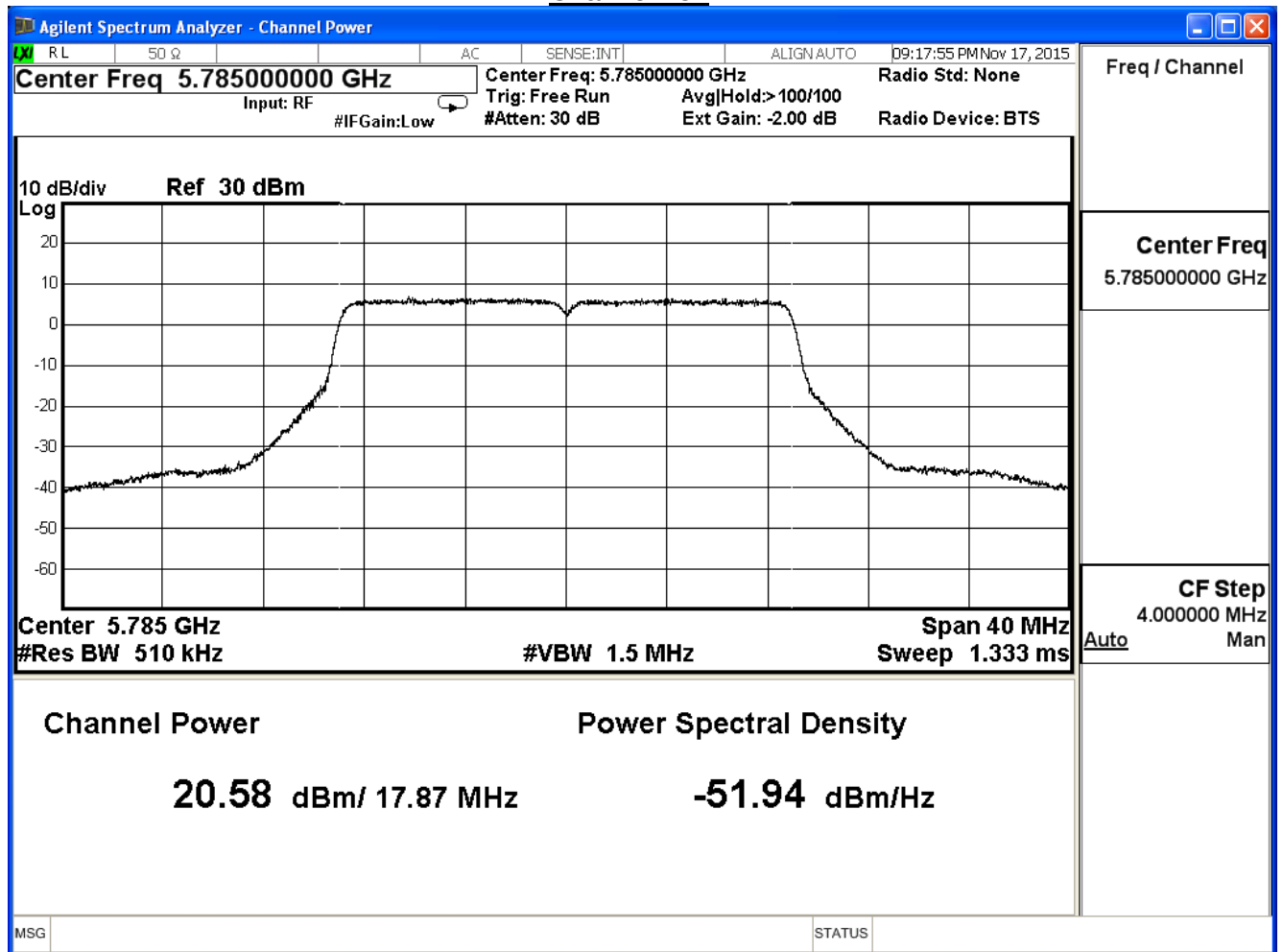
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

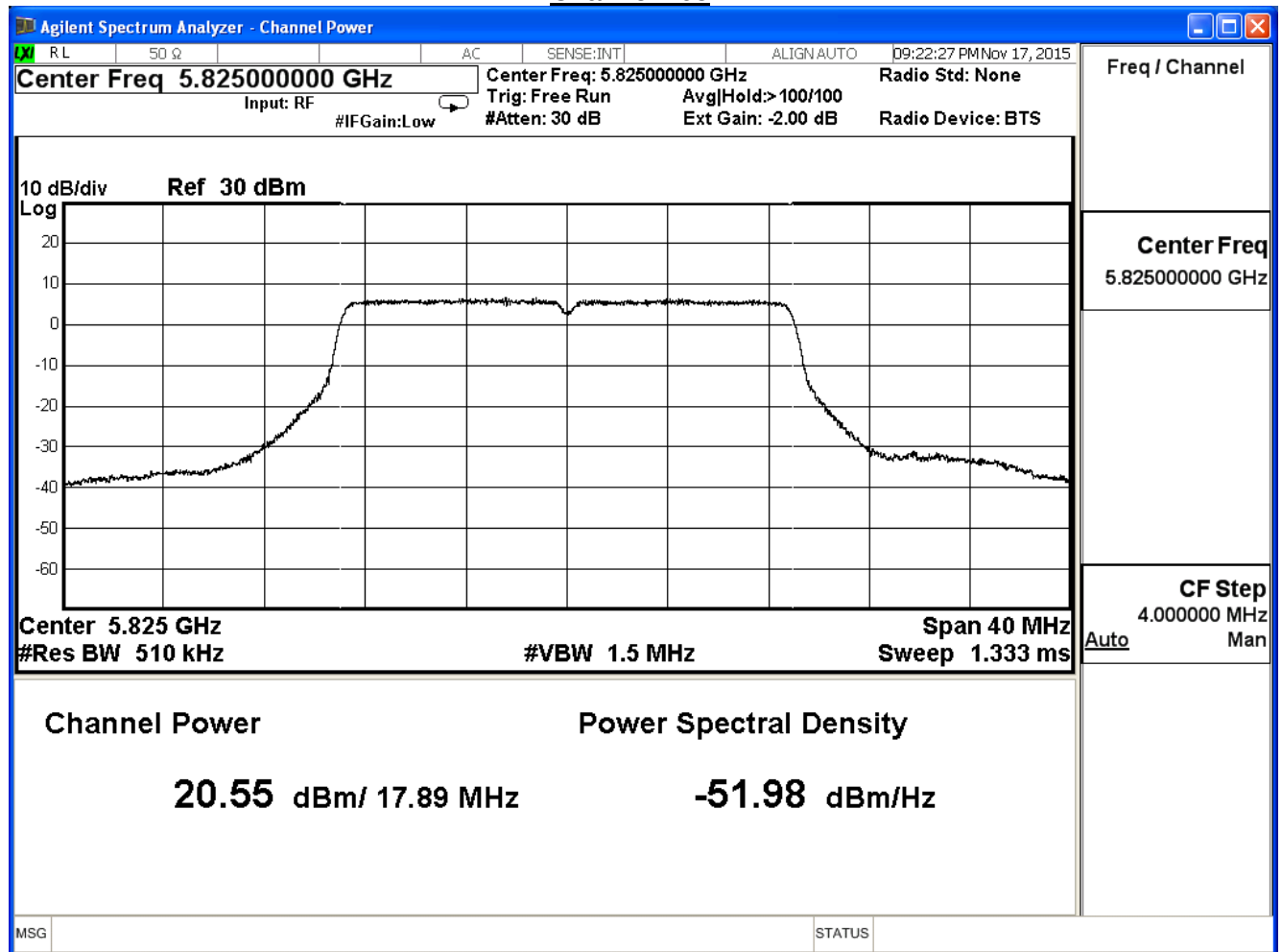
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11n_20M (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	20.57	≤26.79
157	5785	20.62	≤26.79
165	5825	20.75	≤26.79

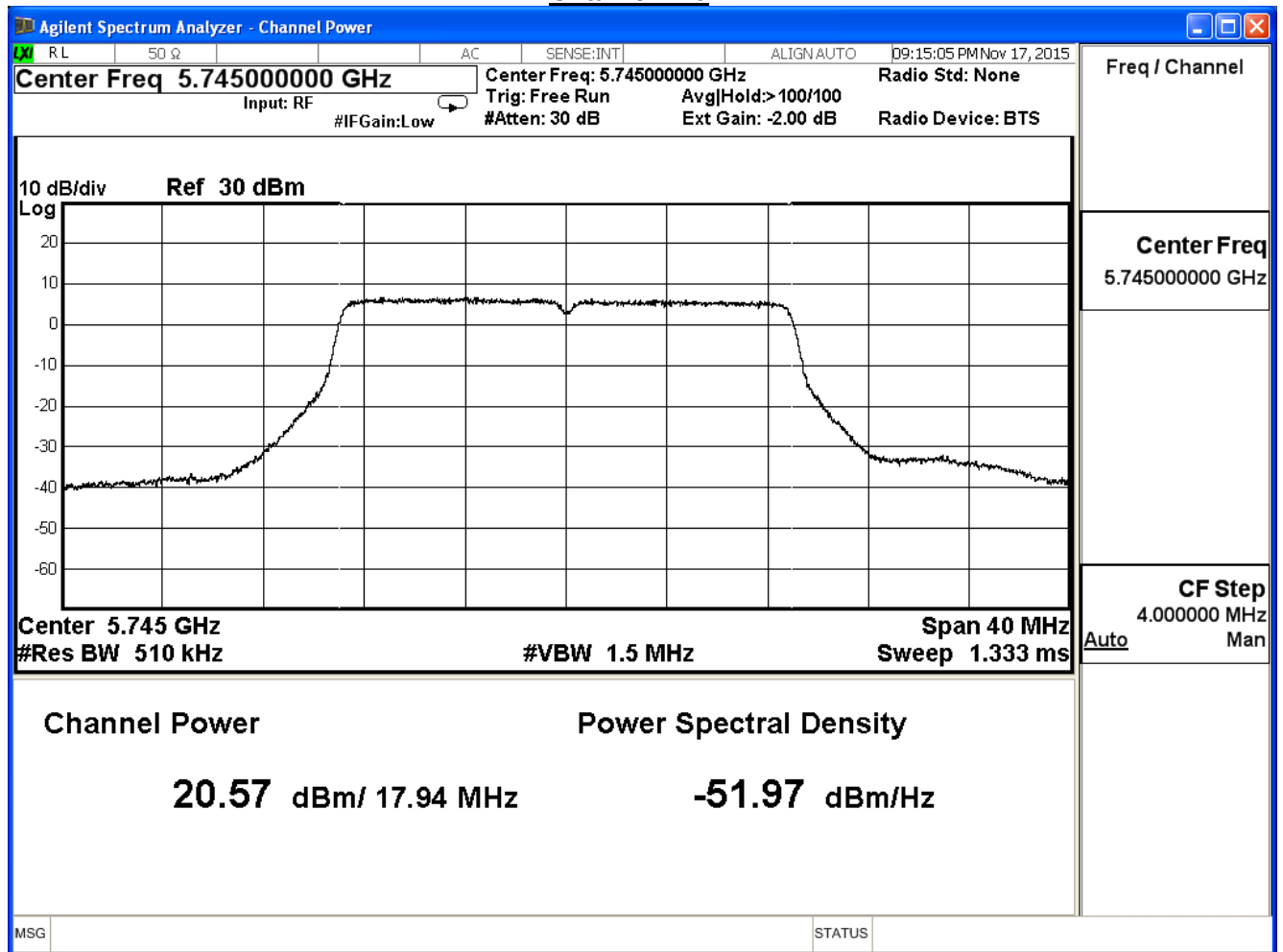
The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
149	5745	20.57	--	--	--	--	--	--	--	≤26.79dBm
157	5785	20.62	20.49	20.30	20.20	20.07	19.93	19.62	19.43	
165	5825	20.75	--	--	--	--	--	--	--	

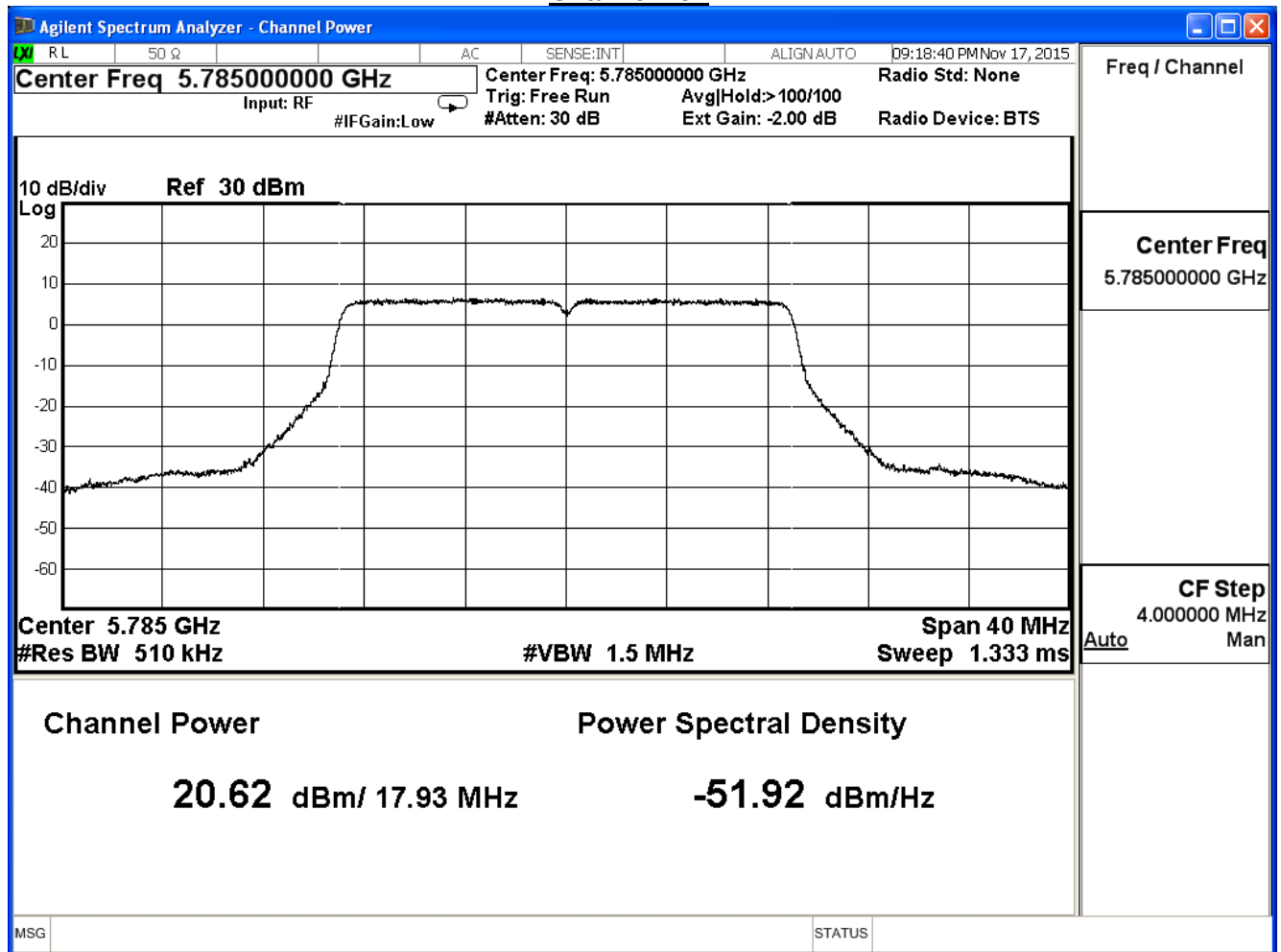
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

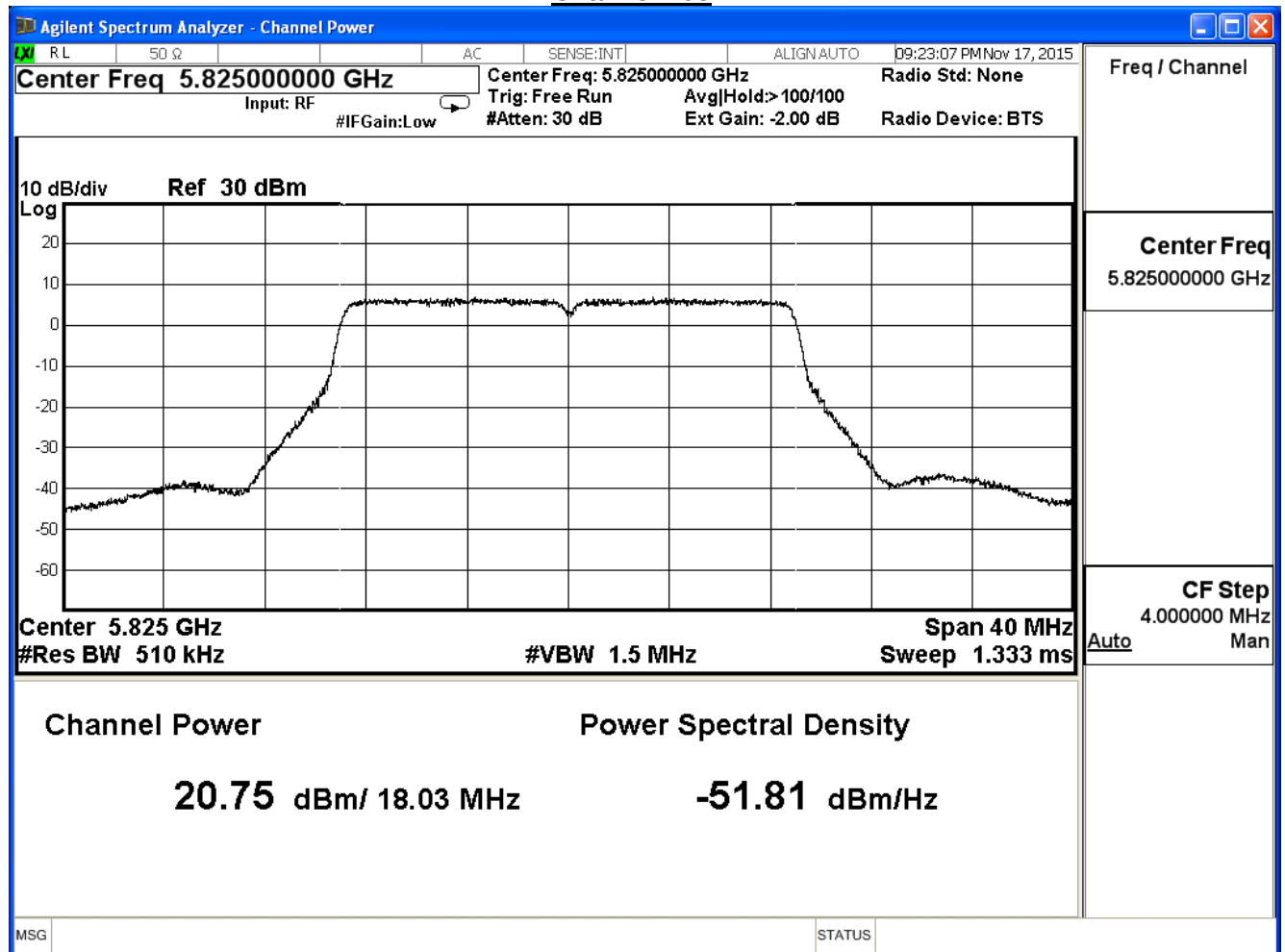
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
149	5745	26.53	≤26.79
157	5785	26.62	≤26.79
165	5825	26.61	≤26.79

The worst emission of data rate is 6.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	26.53	--	--	--	--	--	--	--	≤26.79dBm
157	5785	26.62	26.51	26.34	26.21	25.99	25.78	25.50	25.23	
165	5825	26.61	--	--	--	--	--	--	--	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	20.61	≤26.79
159	5795	20.45	≤26.79

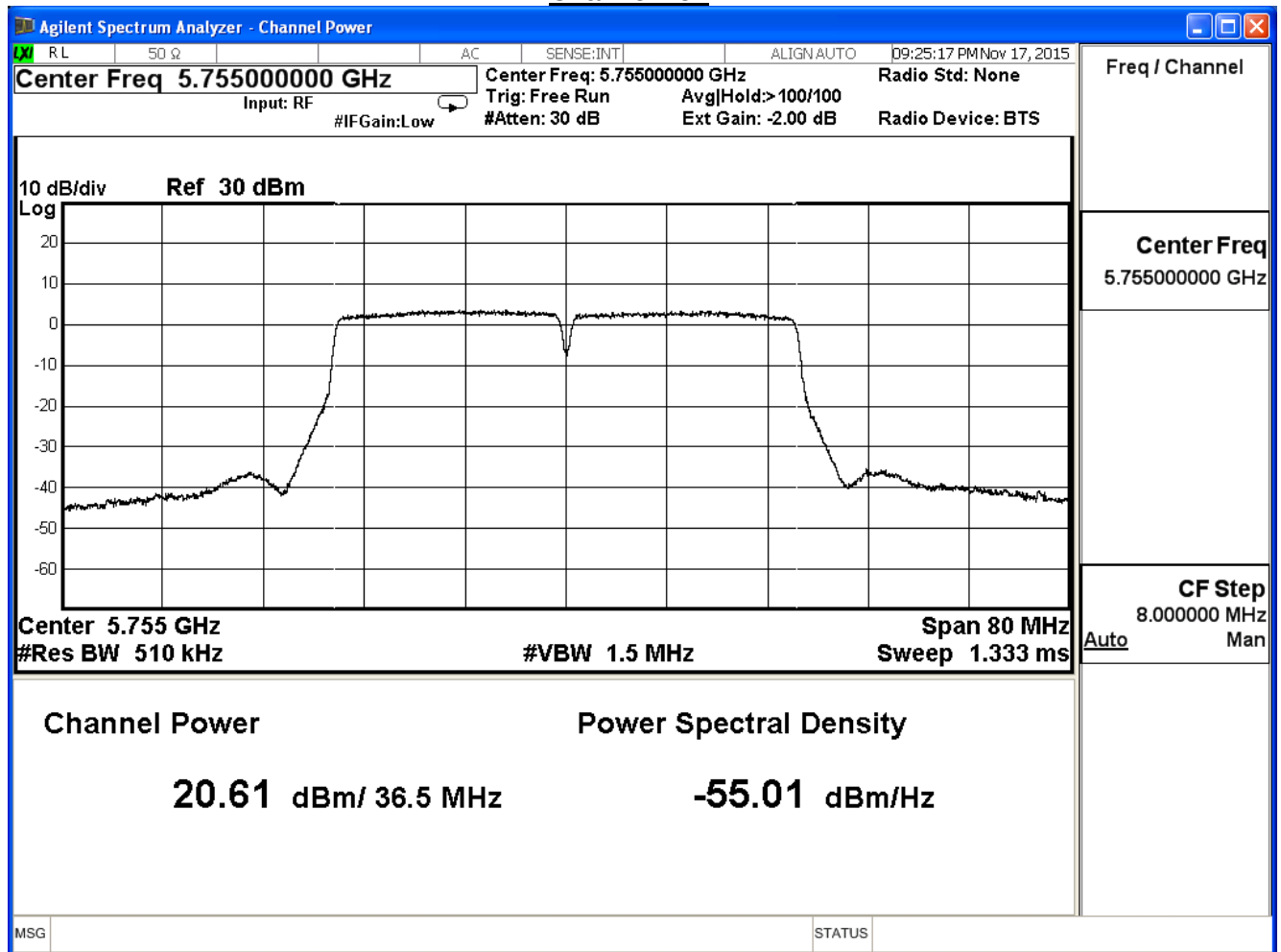
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	20.61	--	--	--	--	--	--	--	≤26.79dBm
159	5795	20.45	20.39	20.29	20.19	19.94	19.79	19.64	19.27	

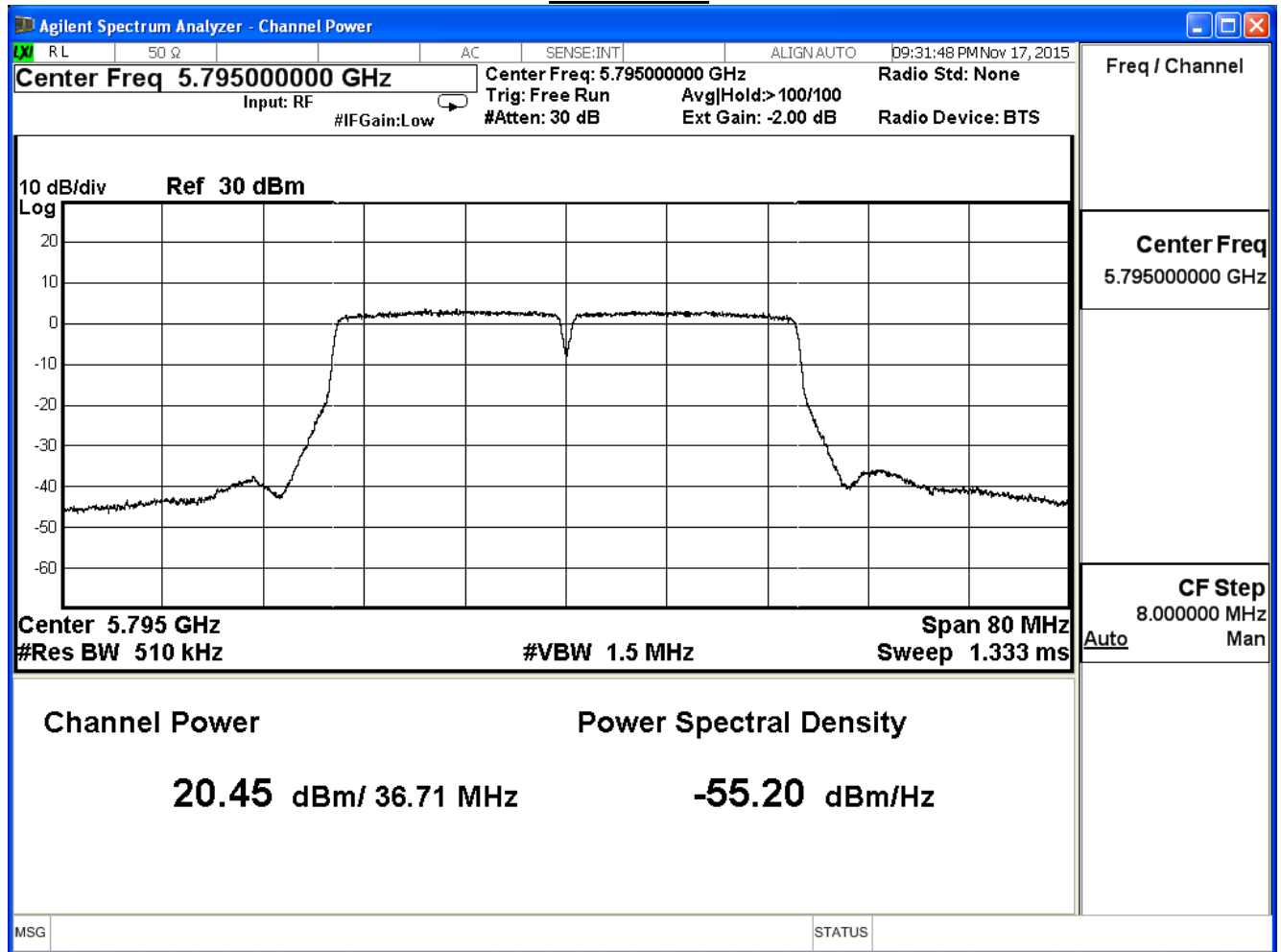
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	20.68	≤26.79
159	5795	20.59	≤26.79

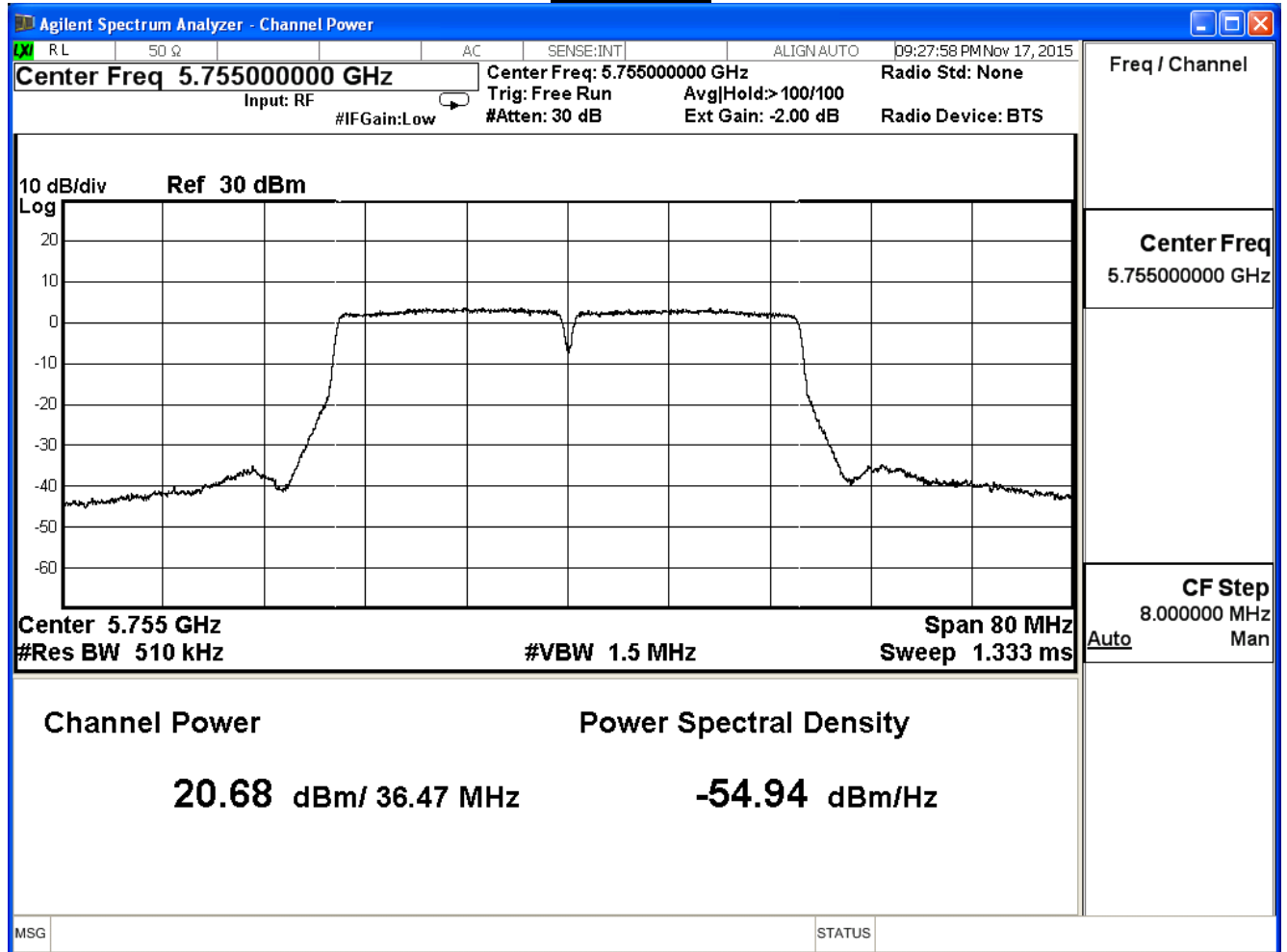
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)									
MCS Index		0	1	2	3	4	5	6	7
Channel No	Frequency (MHz)	Data Rate							
		13.5	27	40.5	54	81	108	121.5	135
151	5755	20.68	--	--	--	--	--	--	--
159	5795	20.59	20.53	20.43	20.22	19.97	19.83	19.52	19.15
Required Limit									
≤26.79dBm									

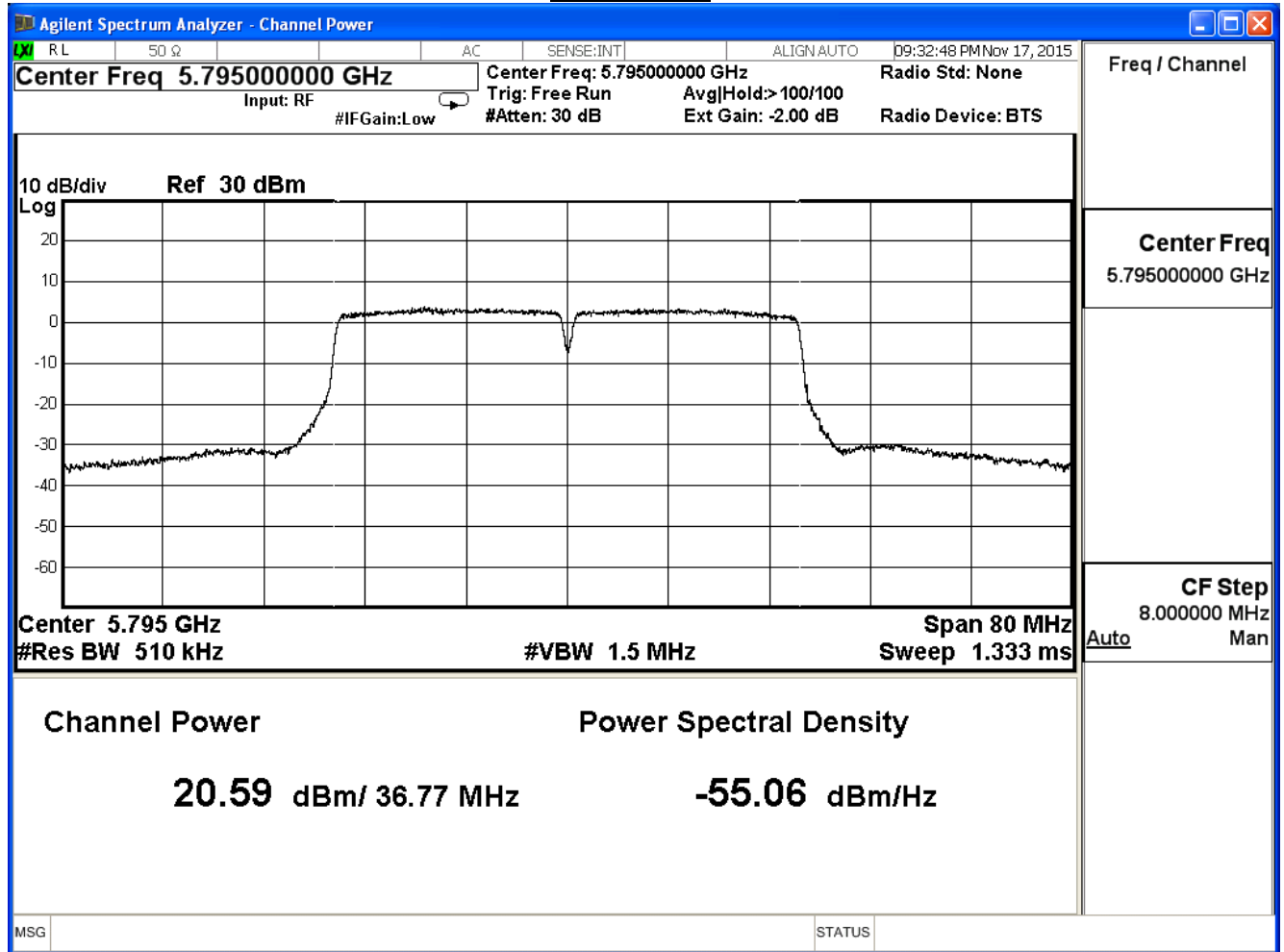
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	20.53	≤26.79
159	5795	20.61	≤26.79

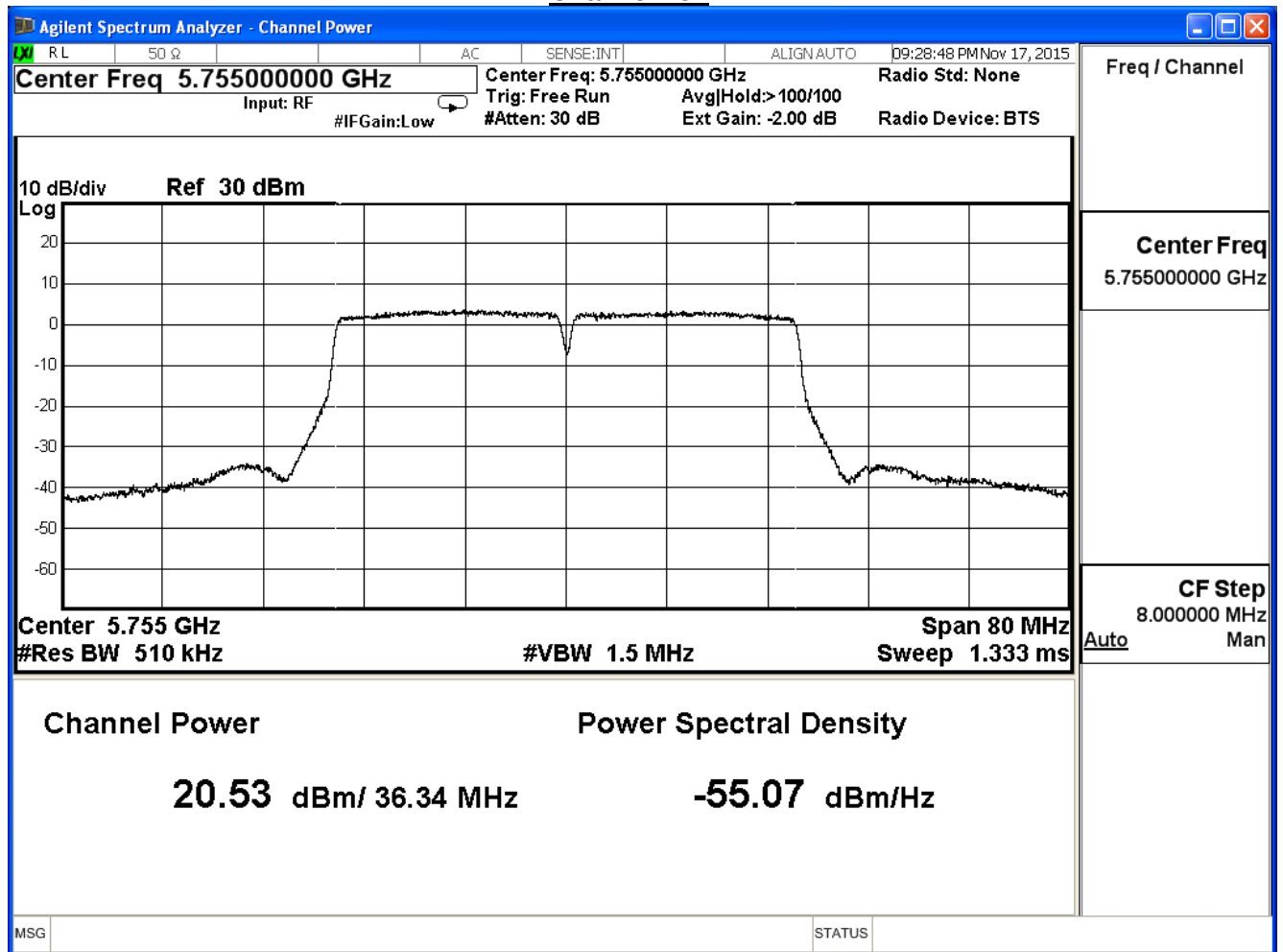
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)									
MCS Index		0	1	2	3	4	5	6	7
Channel No	Frequency (MHz)	Data Rate							
		13.5	27	40.5	54	81	108	121.5	135
151	5755	20.53	--	--	--	--	--	--	--
159	5795	20.61	20.48	20.39	20.28	20.16	19.87	19.71	19.53
Required Limit									
≤26.79dBm									

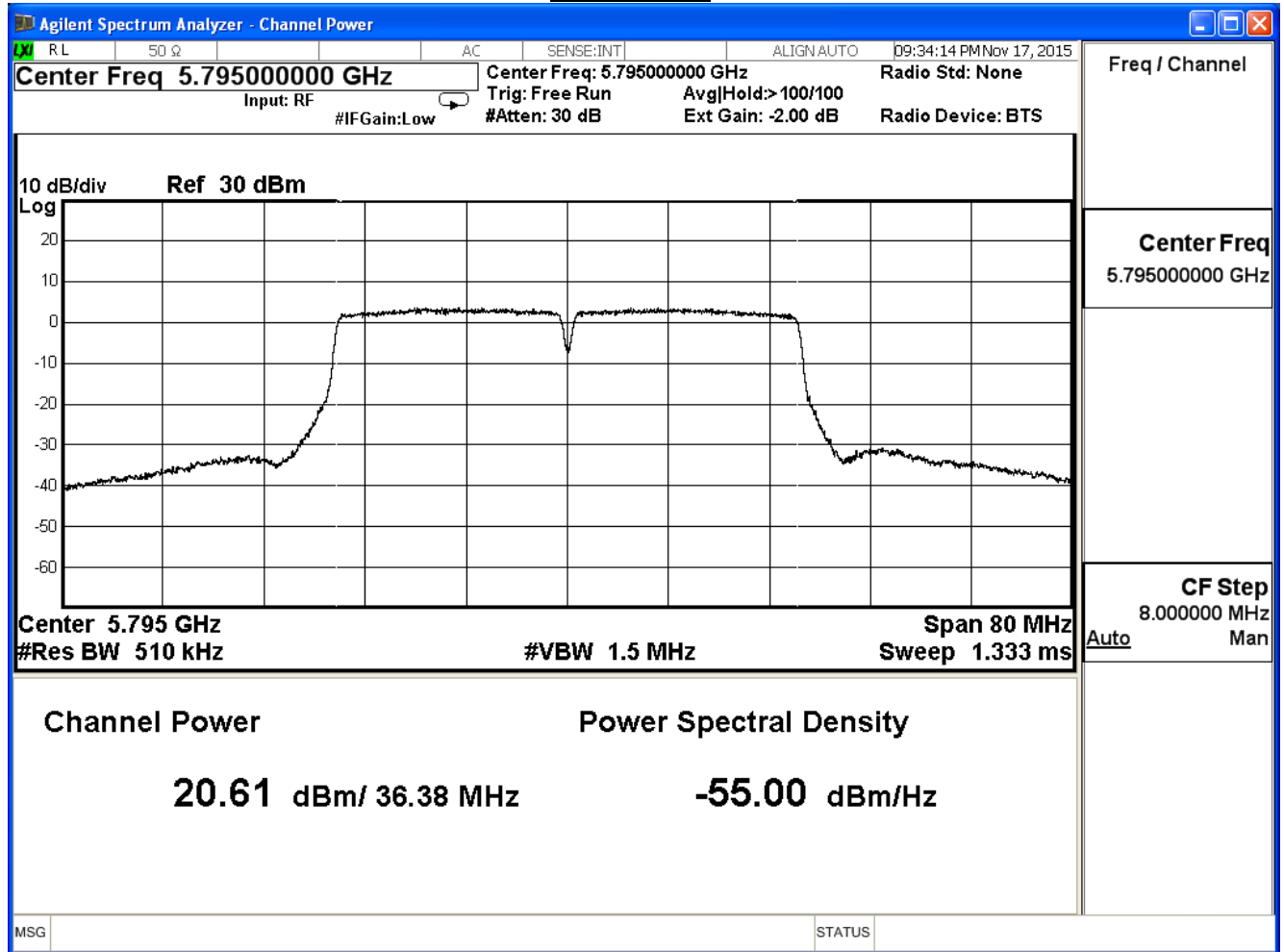
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE802.11n 40MHz(ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	20.69	≤26.79
159	5795	20.74	≤26.79

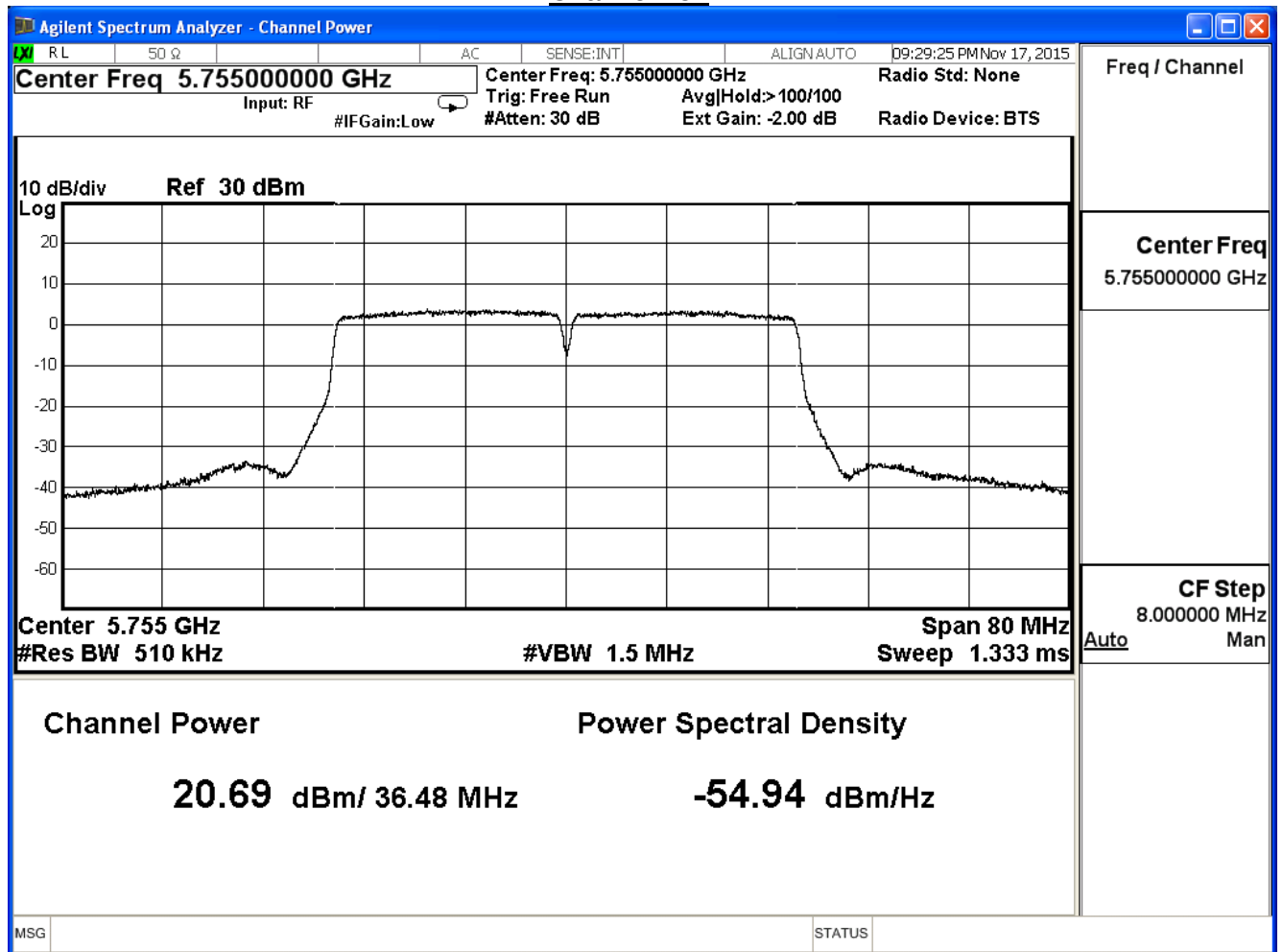
The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	20.69	--	--	--	--	--	--	--	≤26.79dBm
159	5795	20.74	20.68	20.58	20.48	20.23	20.08	19.77	19.40	

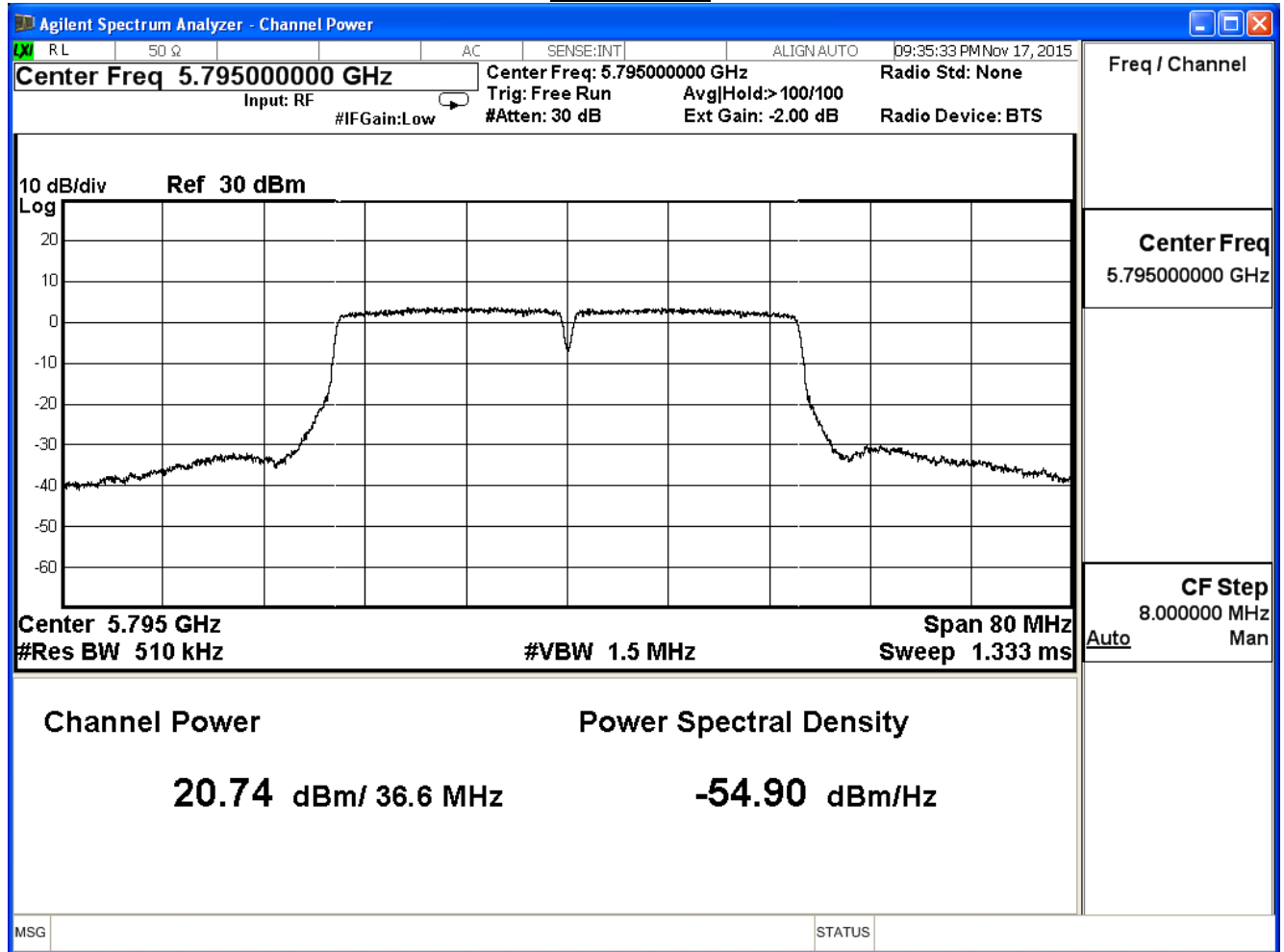
Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 151



Channel 159



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
151	5755	26.65	≤26.79
159	5795	26.62	≤26.79

The worst emission of data rate is 13.5 Mbps.

Peak Transmit Output (dBm)									
MCS Index		0	1	2	3	4	5	6	7
Channel No	Frequency (MHz)	Data Rate							
		13.5	27	40.5	54	81	108	121.5	135
151	5755	26.65	--	--	--	--	--	--	--
159	5795	26.62	26.54	26.44	26.31	26.09	25.91	25.68	25.36

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
155	5775	20.55	≤26.79

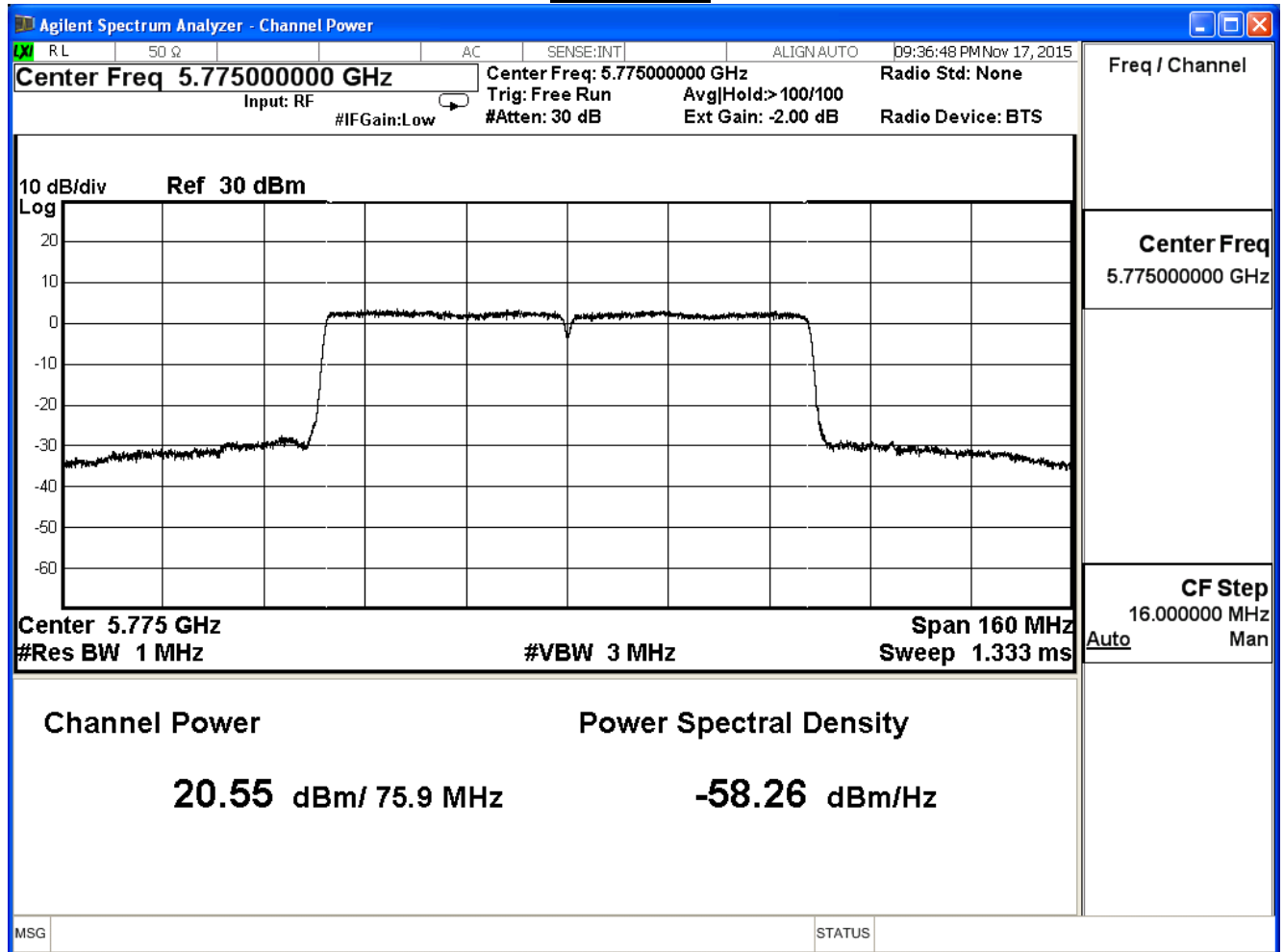
The worst emission of data rate is 29.3 Mbps

Peak Transmit Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Required Limit
Channel No	Frequency (MHz)	Data Rate										≤26.79dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	20.55	20.35	20.11	19.83	19.68	19.34	19.17	18.75	18.51	18.36	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
155	5775	20.56	≤26.79

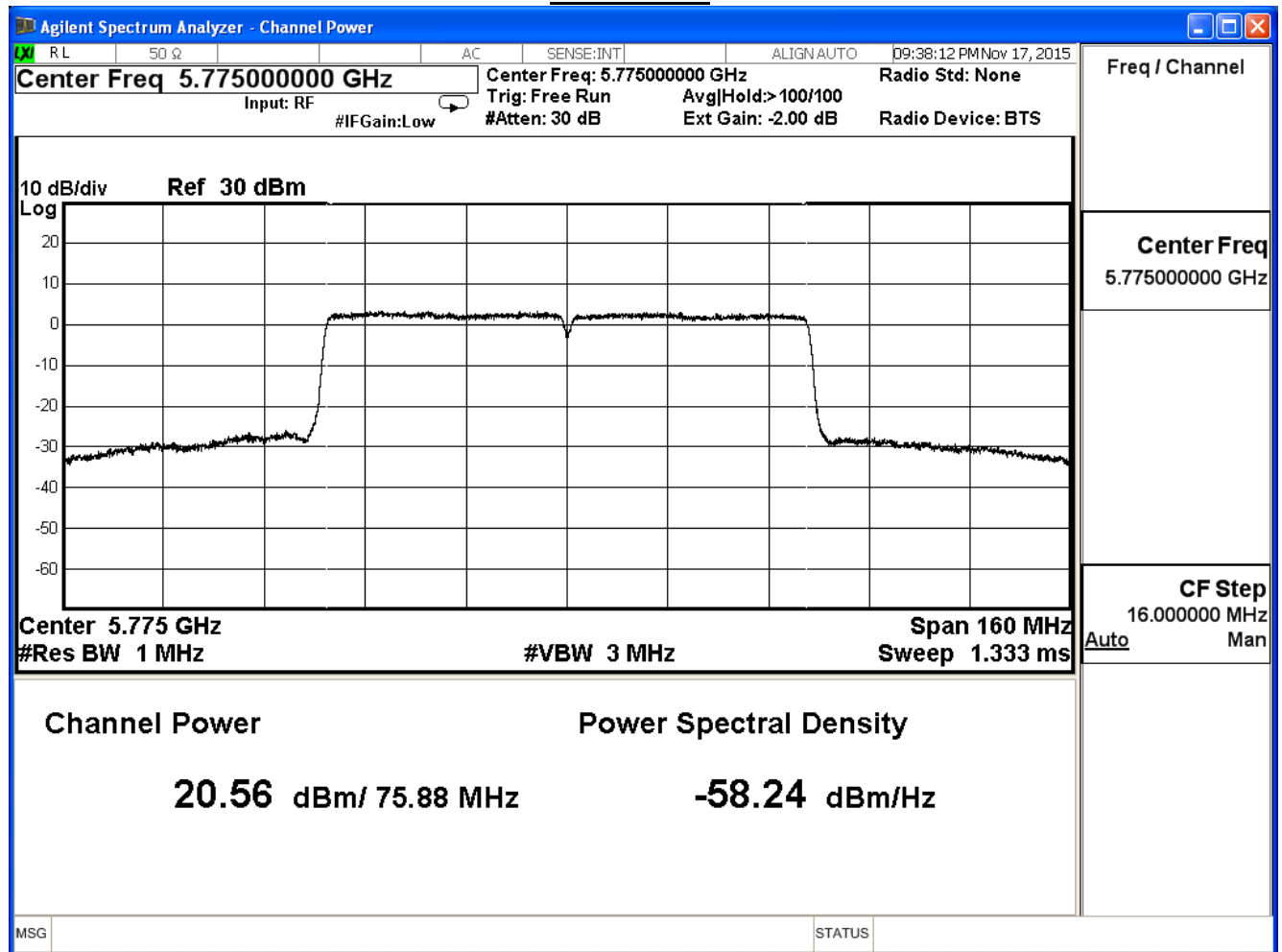
The worst emission of data rate is 29.3 Mbps

Peak Transmit Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤26.79dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	20.56	20.36	20.12	19.84	19.69	19.35	19.01	18.80	18.56	18.41	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
155	5775	20.58	≤26.79

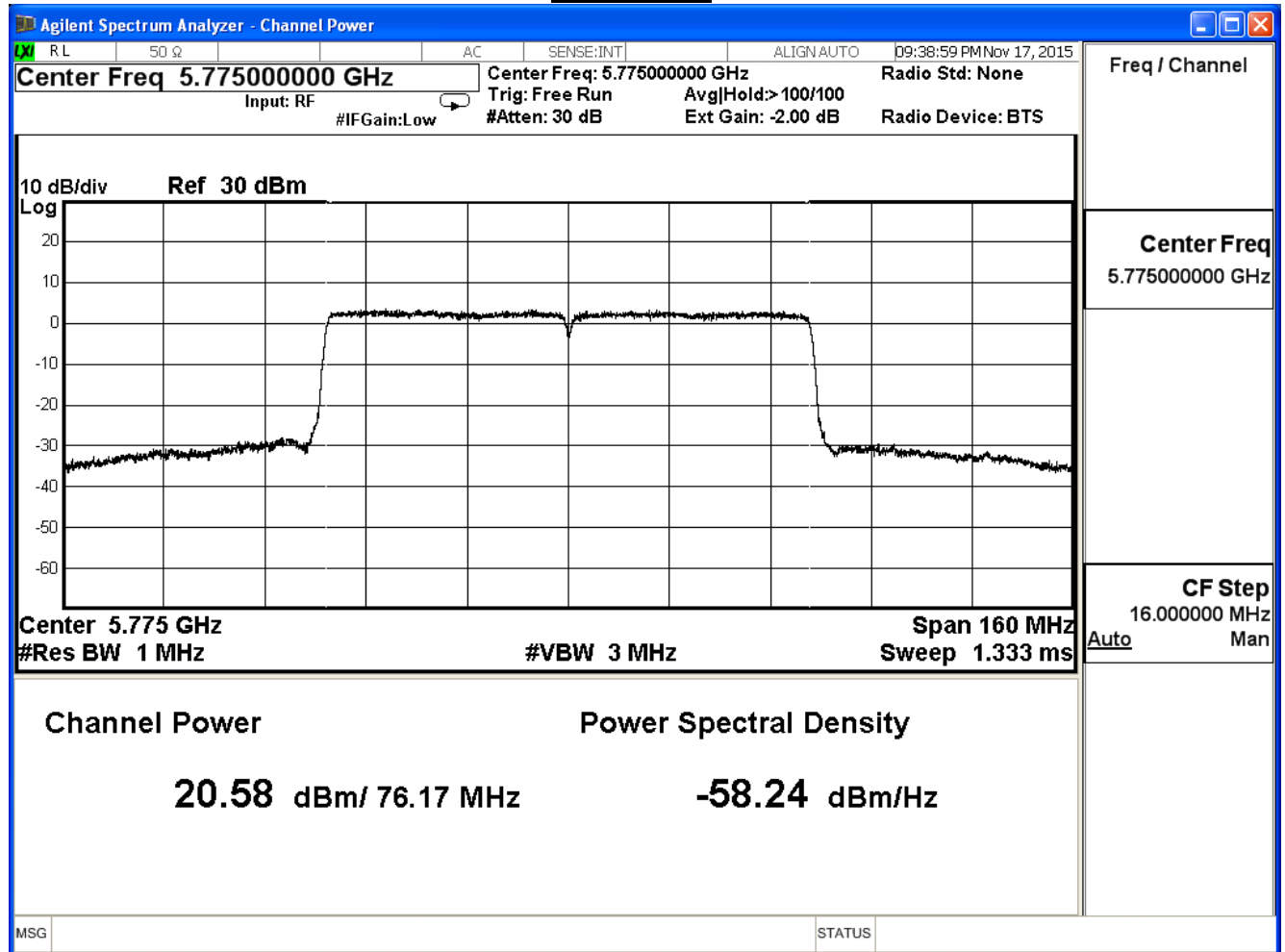
The worst emission of data rate is 29.3 Mbps

Peak Transmit Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										≤26.79dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	20.58	20.48	20.36	20.08	19.78	19.61	19.44	19.23	18.99	18.69	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
155	5775	20.69	≤26.79

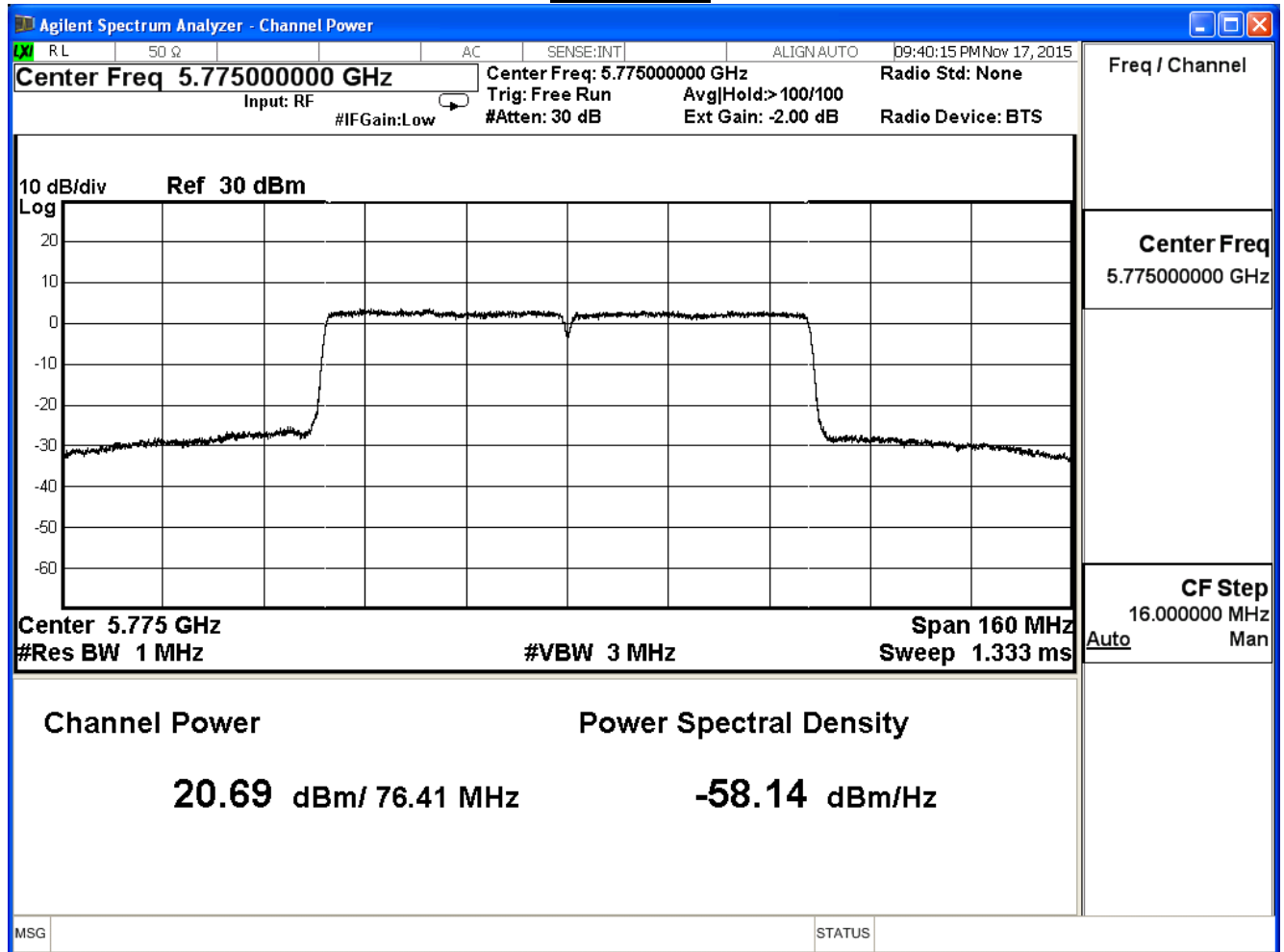
The worst emission of data rate is 29.3 Mbps

Peak Transmit Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Required Limit
Channel No	Frequency (MHz)	Data Rate										≤26.79dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	20.69	20.59	20.47	20.19	20.04	19.87	19.70	19.28	18.80	18.50	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

Channel 155



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2015/11/17	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)
155	5775	26.62	≤26.79

The worst emission of data rate is 29.3 Mbps

Peak Transmit Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Required Limit
Channel No	Frequency (MHz)	Data Rate										≤26.79dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
155	5775	26.62	26.47	26.29	26.01	25.82	25.57	25.36	25.04	24.74	24.51	

Directional Antenna : $10\log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power Density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dBi}) = 26.79\text{dBm}$

5. Peak Power Spectrum Density

5.1. Test Equipment

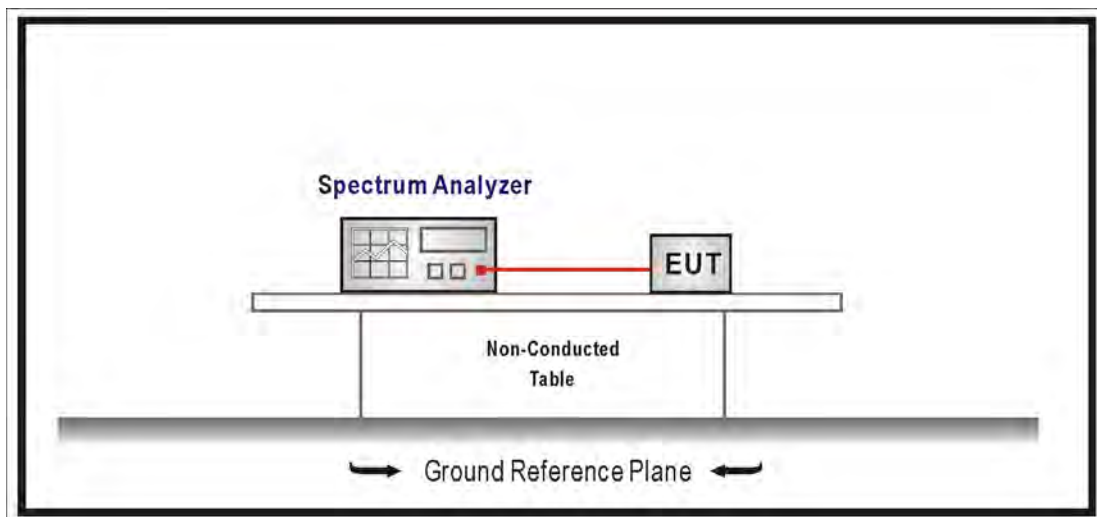
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density 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 power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density 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 power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

5.4. Test Procedure

The EUT was setup to ANSI C63.10:2013; tested to U-NII test procedure of 789033 D02 V01R01 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectrum Density		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.72	11.27	≤ 26.79
157	5785	-5.44	11.55	≤ 26.79
165	5825	-4.93	12.06	≤ 26.79

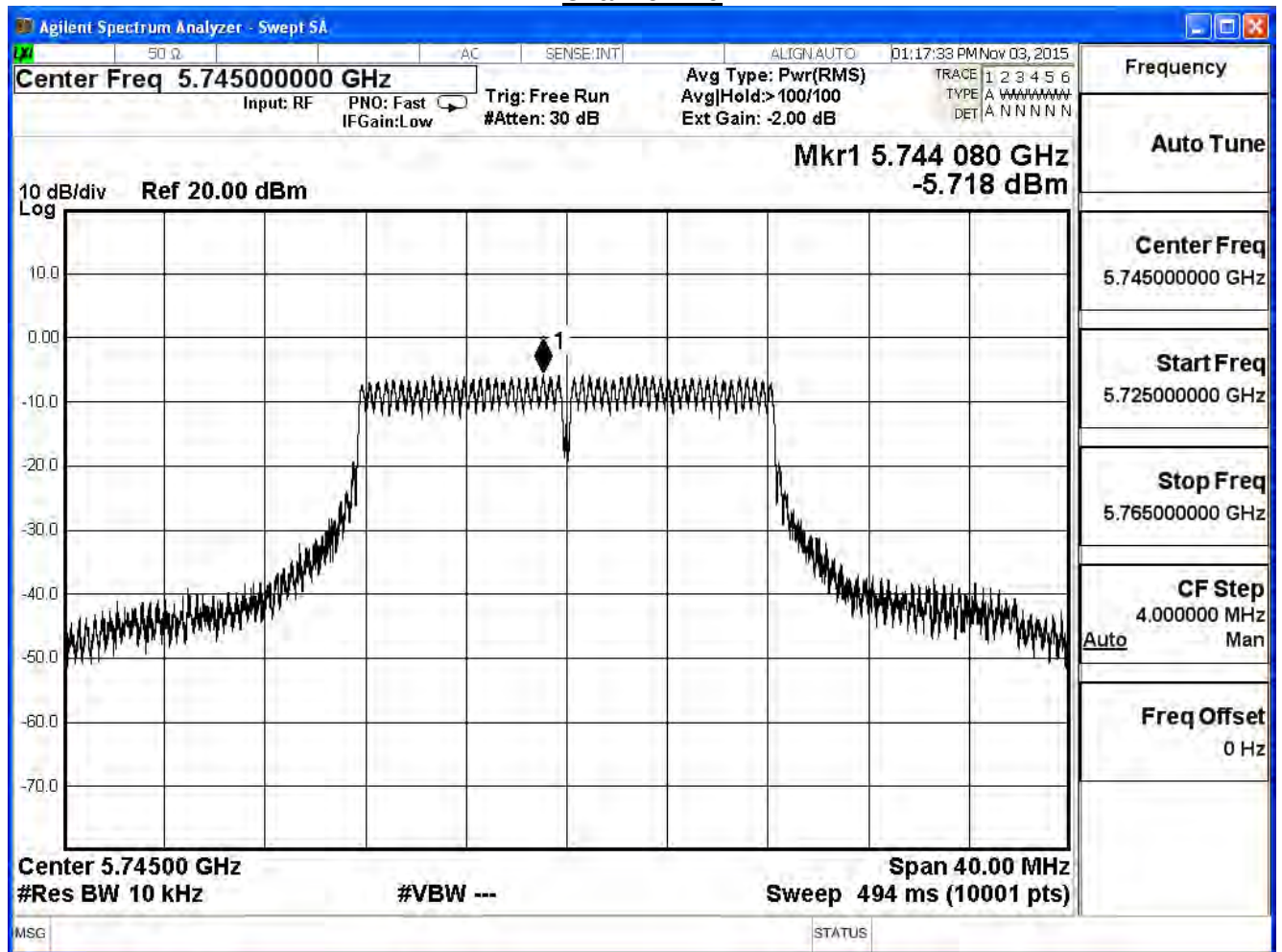
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 26.79\text{dBm}$

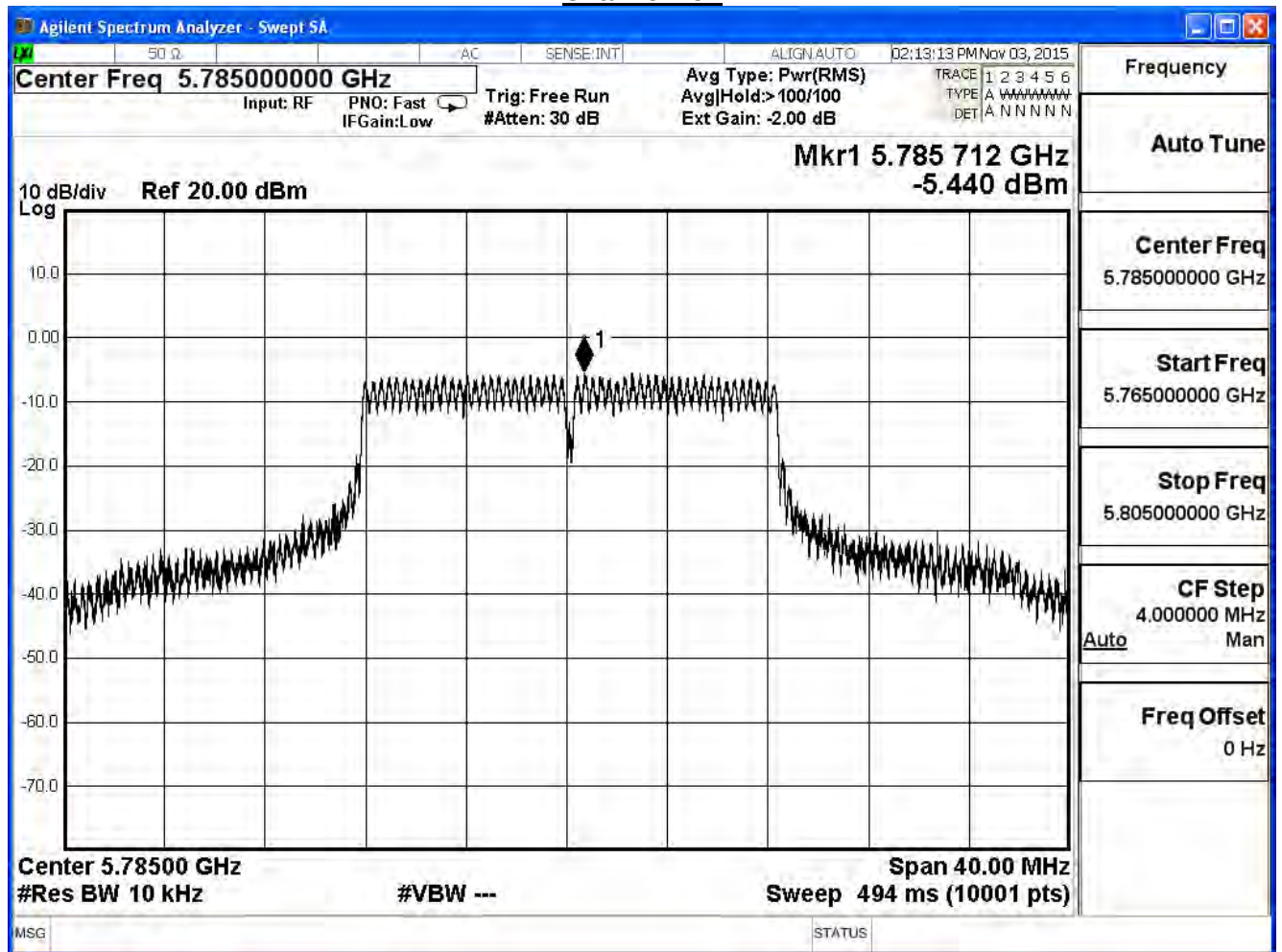
Correct factor = $10 \log(500\text{KHz}/10\text{KHz}) = 16.99 \text{ dB}$

Measure Level = Reading Level + correct factor

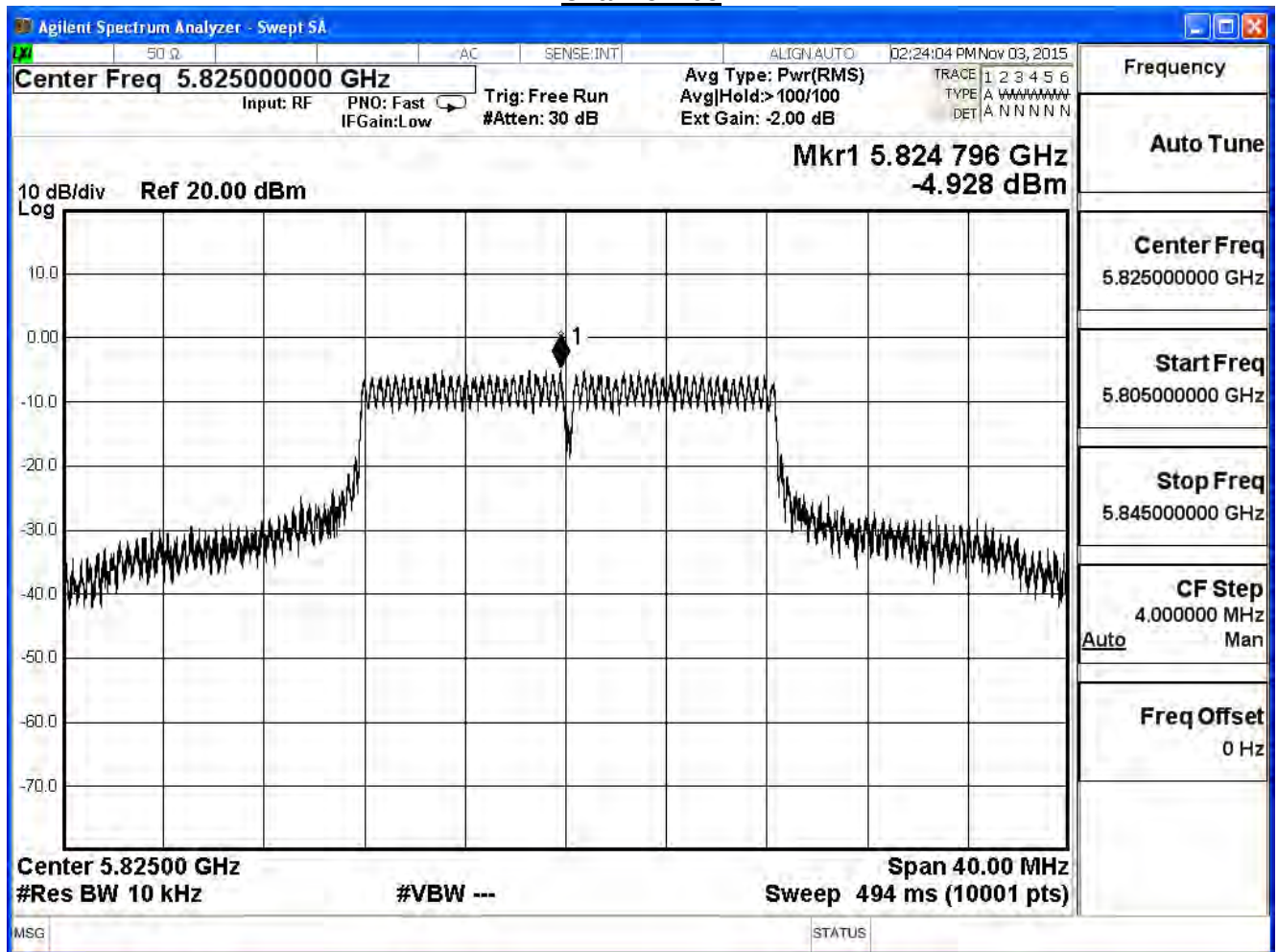
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectrum Density		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.48	11.51	≤ 26.79
157	5785	-4.99	12.00	≤ 26.79
165	5825	-4.68	12.31	≤ 26.79

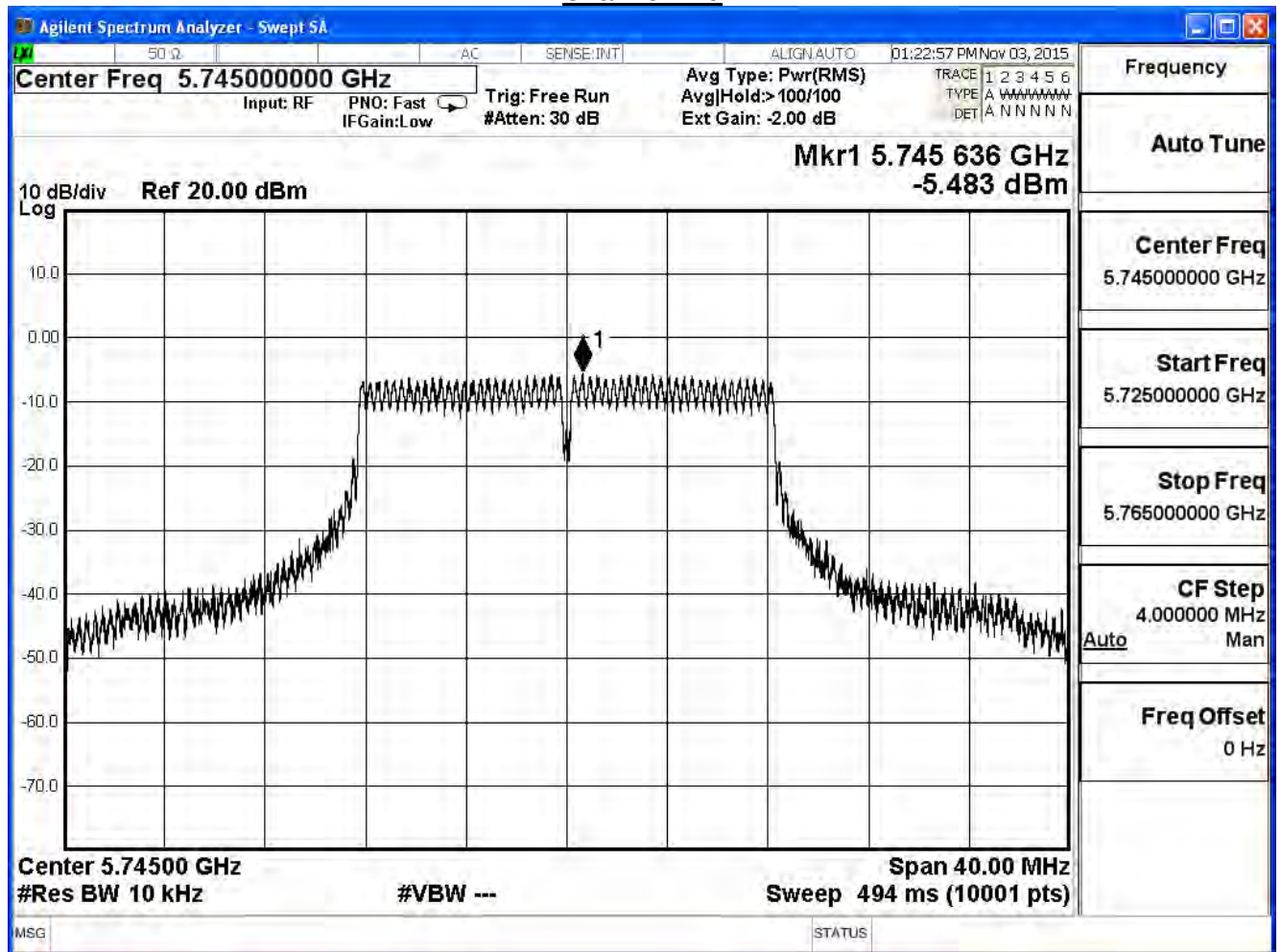
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 26.79\text{dBm}$

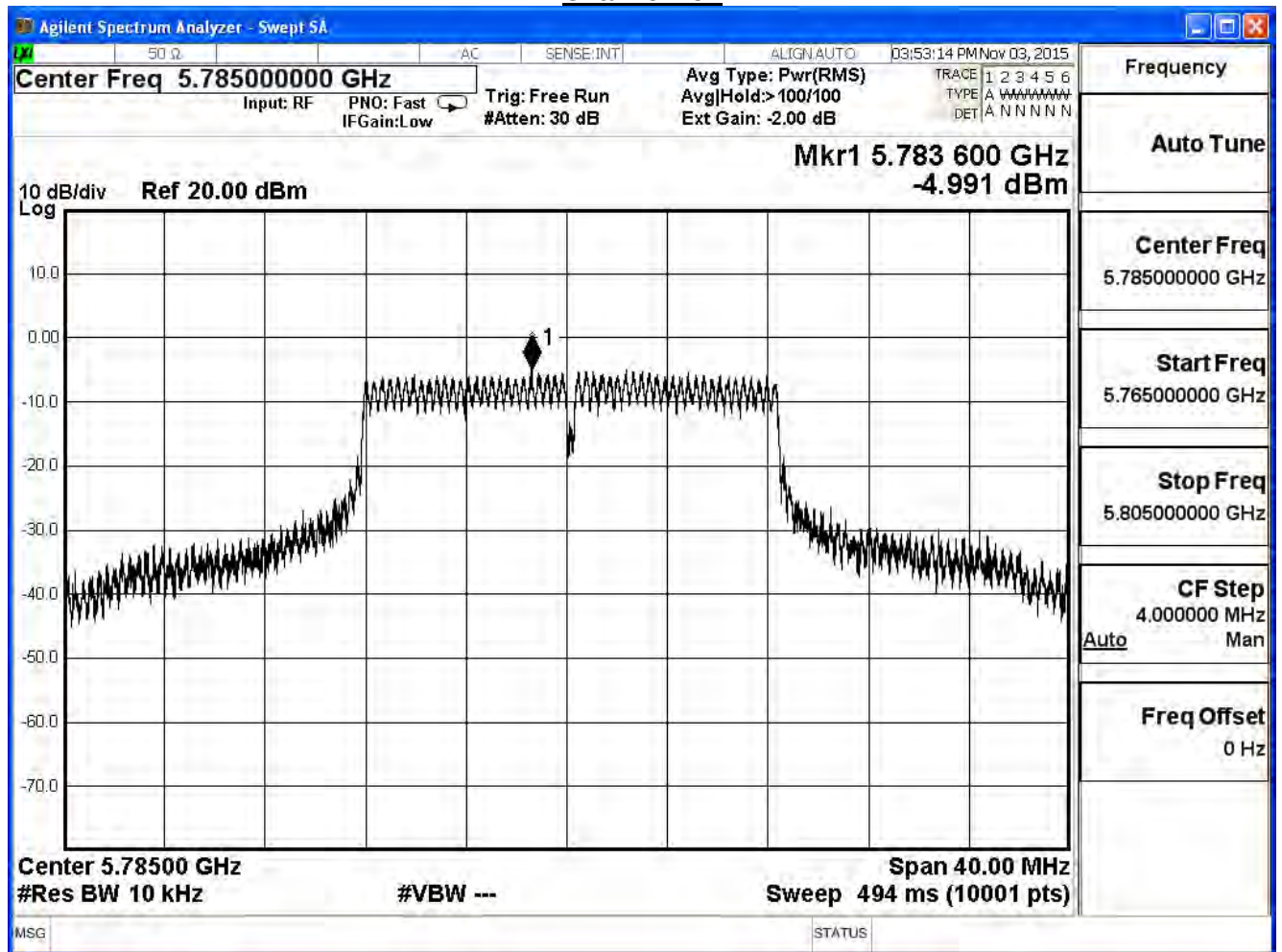
Correct factor $= 10 \log(500\text{KHz}/10\text{KHz}) = 16.99 \text{ dB}$

Measure Level = Reading Level + correct factor

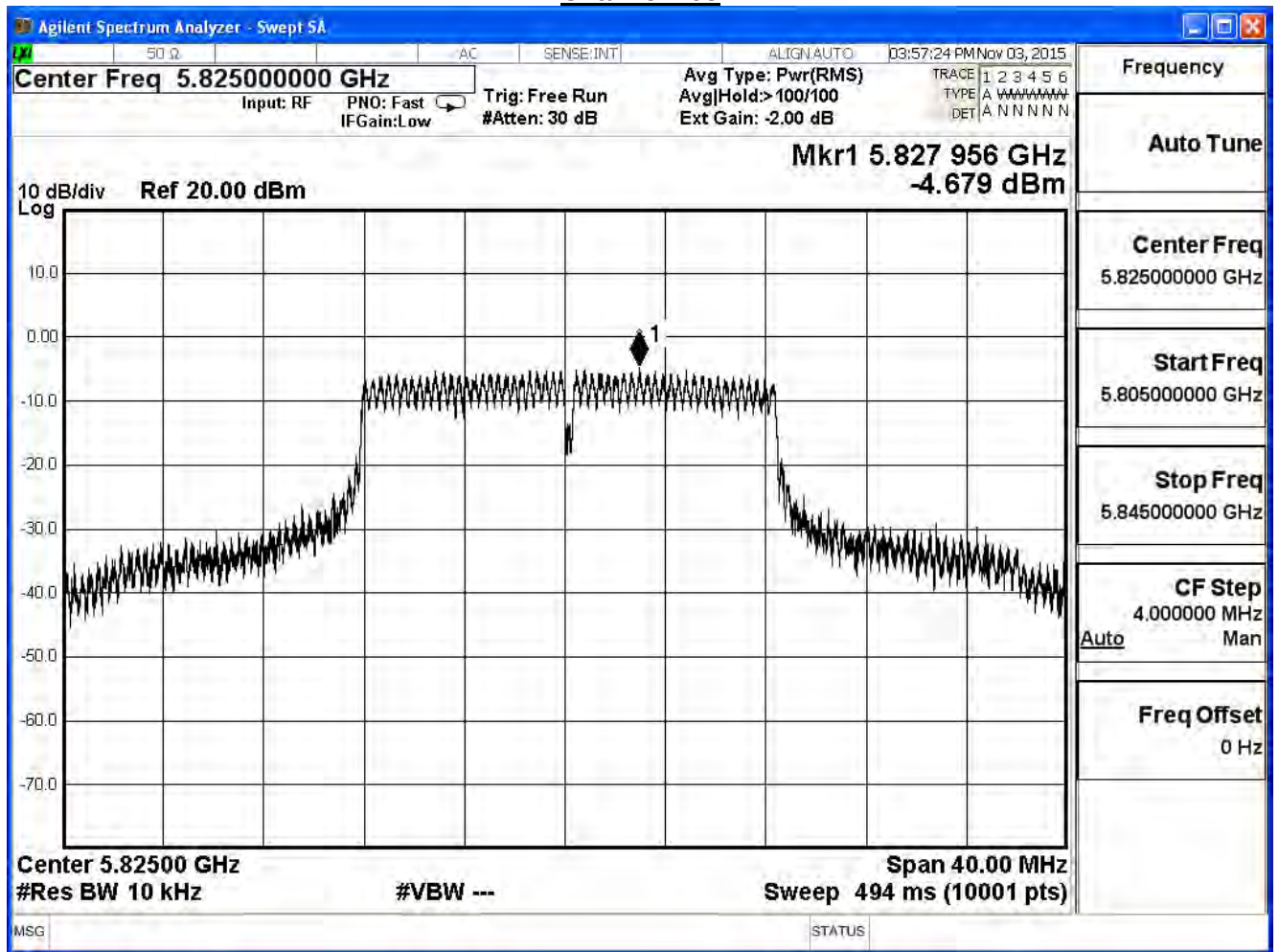
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectrum Density		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.71	11.28	≤ 26.79
157	5785	-5.72	11.27	≤ 26.79
165	5825	-5.63	11.36	≤ 26.79

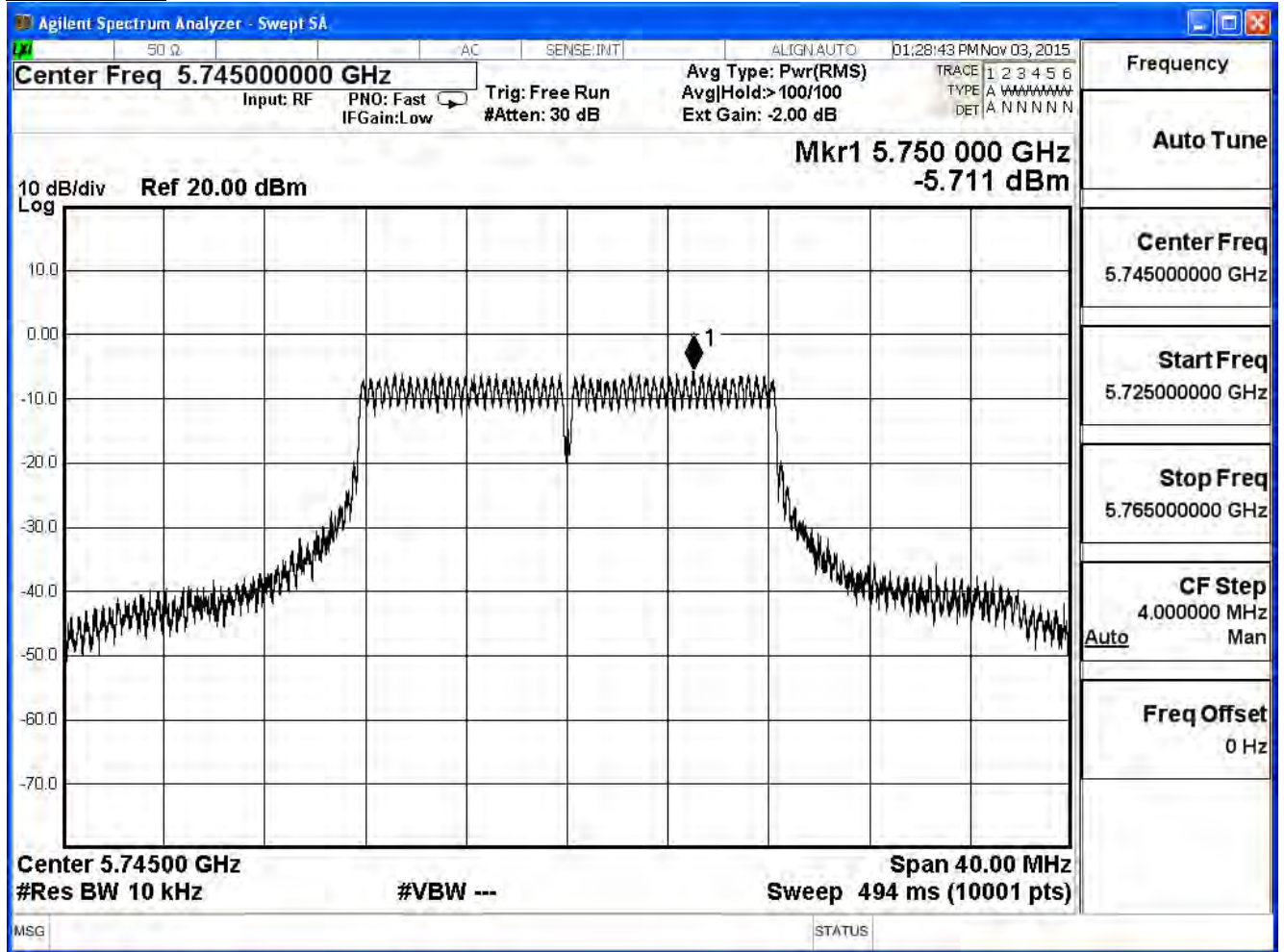
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 26.79\text{dBm}$

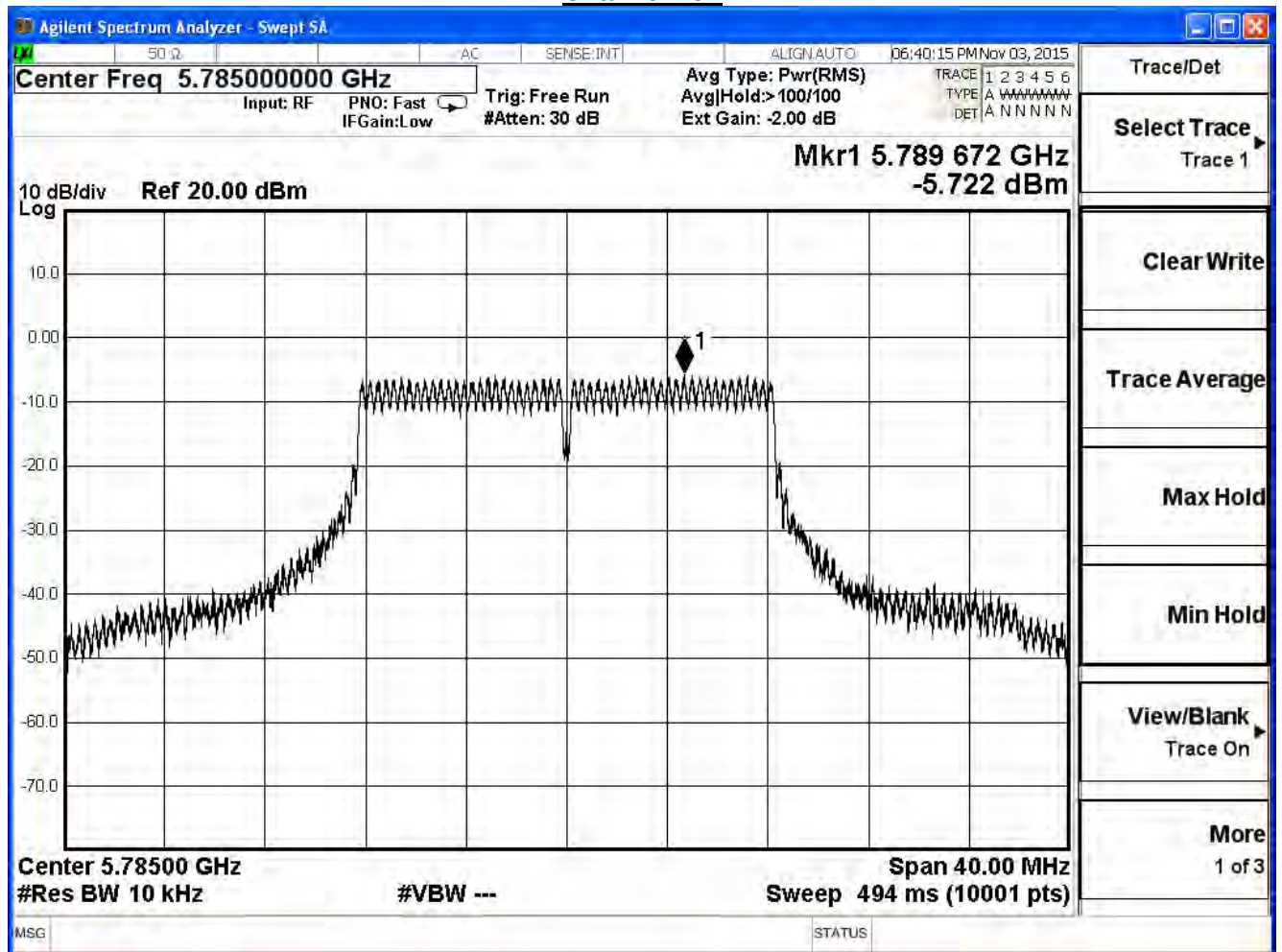
Correct factor = $10 \log(500\text{KHz}/10\text{KHz}) = 16.99 \text{ dB}$

Measure Level = Reading Level + correct factor

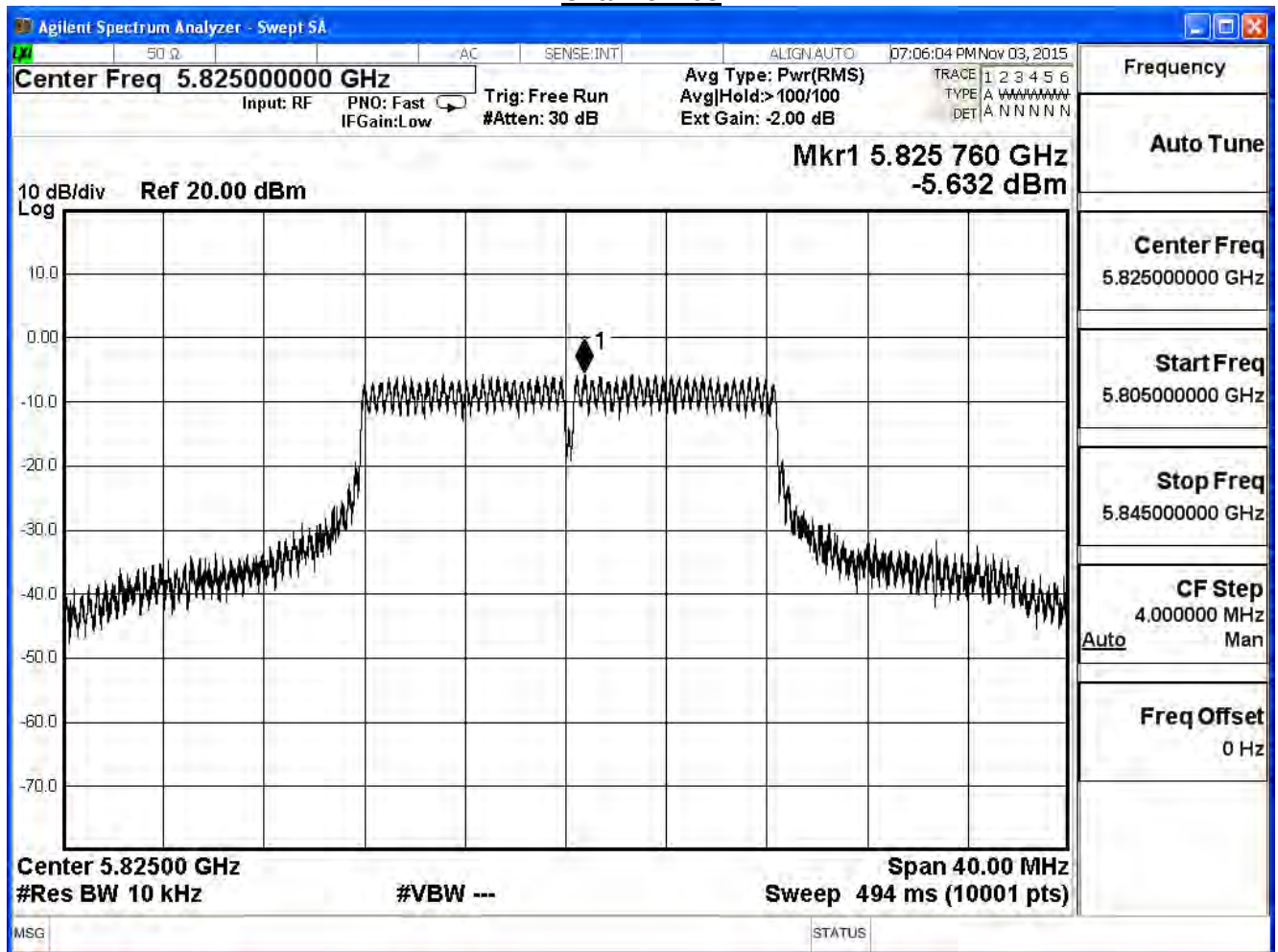
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectrum Density		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 3)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.44	11.55	≤ 26.79
157	5785	-5.26	11.73	≤ 26.79
165	5825	-5.43	11.56	≤ 26.79

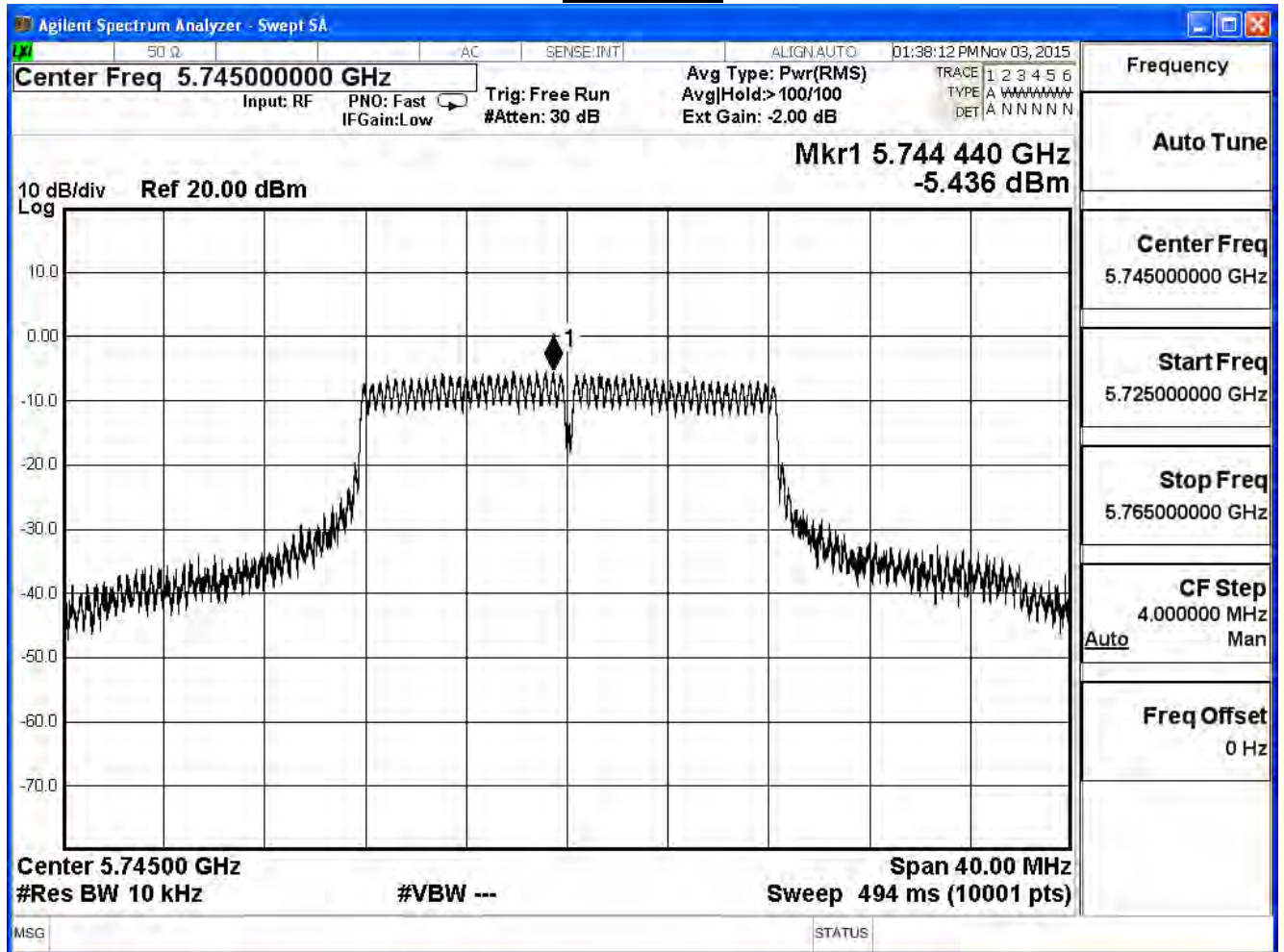
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 26.79\text{dBm}$

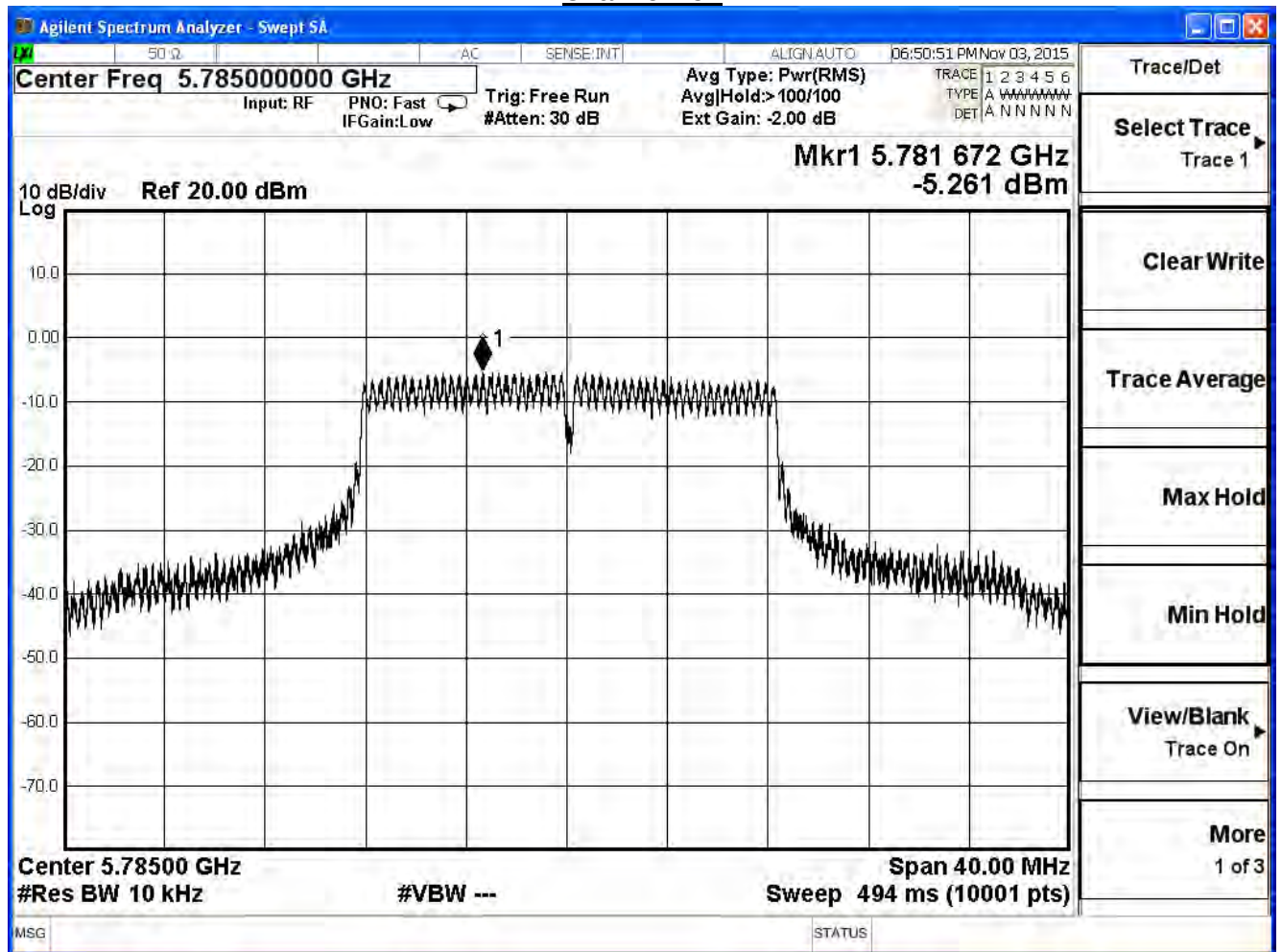
Correct factor = $10 \log(500\text{KHz}/10\text{KHz}) = 16.99 \text{ dB}$

Measure Level = Reading Level + correct factor

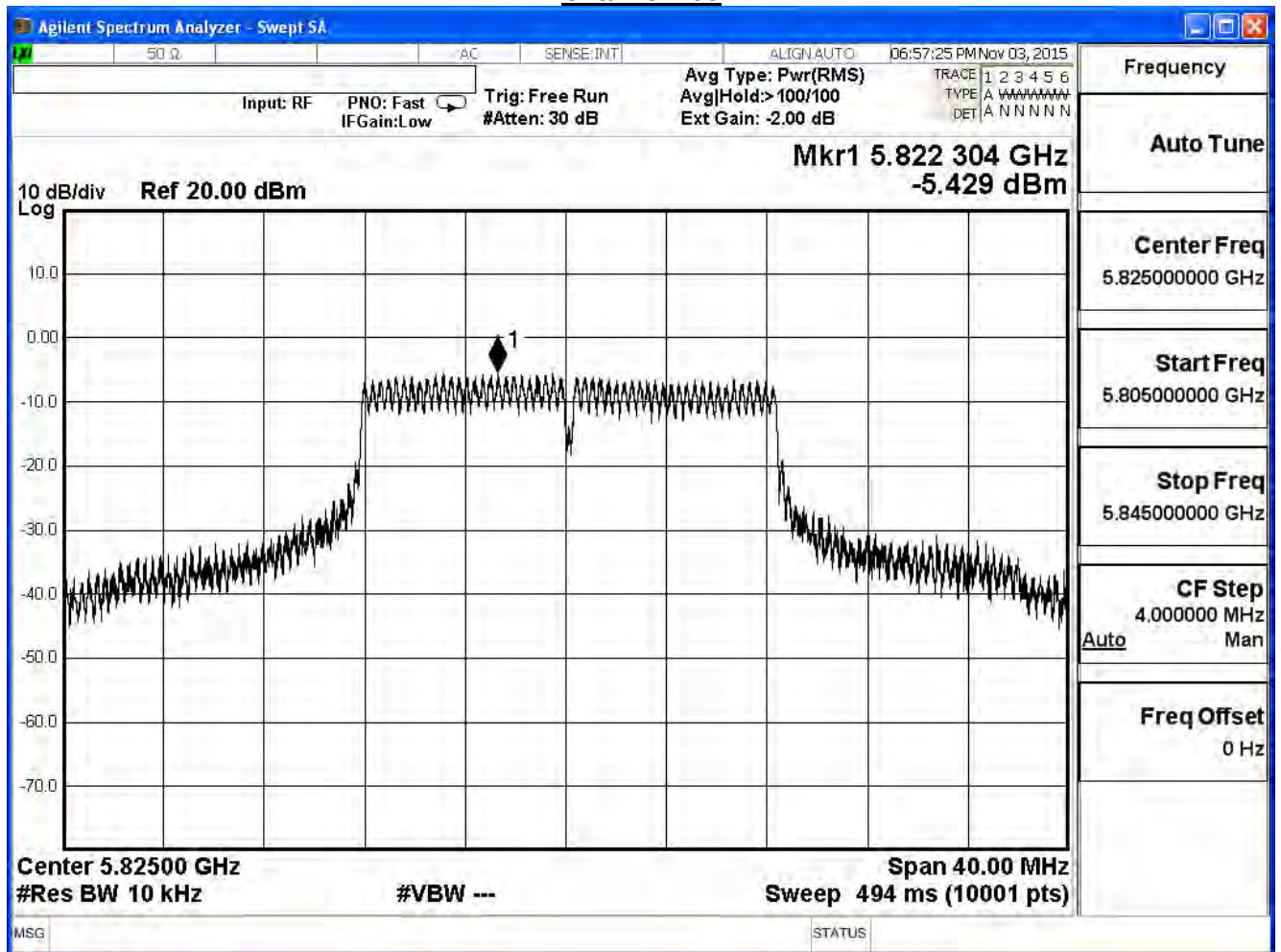
Channel 149



Channel 157



Channel 165



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectrum Density		
Test Mode	Mode 1: Transmit_CDD Mode_Adapter 1		
Date of Test	2015/11/03	Test Site	SR7

IEEE 802.11a (ANT 0+1+2+3)			
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)
149	5745	17.43	≤ 26.79
157	5785	17.67	≤ 26.79
165	5825	17.86	≤ 26.79

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 6.02 + 3.19 = 9.21\text{dBi}$

Power density Limit: $30\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 26.79\text{dBm}$

Correct factor $= 10 \log(500\text{KHz}/10\text{KHz}) = 16.99 \text{ dB}$

Measure Level = Reading Level + correct factor