

FCC Test Report

Product Name : ASUS SRT-AC1900 Wireless Smart Router

Model No. : SRT-AC1900

FCC ID. : MSQ-SRTAC1900

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : 2015/05/04

Issued Date : 2015/05/20

Report No. : 1550110R-RFUSP56V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2015/05/20

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Product Name : ASUS SRT-AC1900 Wireless Smart Router
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : MAINTEK Computer(Suzhou) Co.,Ltd.
Model No. : SRT-AC1900
FCC ID. : MSQ-SRTAC1900
EUT Voltage : AC 100-240V, 50-60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407:2014
ANSI C63.10: 2009
Test Result : Complied

The test results relate only to the samples tested.

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(Roy Wang / Director)

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: 150981

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	ASUS SRT-AC1900 Wireless Smart Router	
Product Type	WLAN (3TX, 3RX)	
Trade Name	ASUS	
Model No.	SRT-AC1900	
Frequency Range/ Channel Number	IEEE 802.11a/ IEEE 802.11n (20MHz) / IEEE 802.11ac (20MHz)	5180~5240MHz / 4 Channels
	IEEE 802.11n (40MHz) / IEEE 802.11ac (40MHz)	5190~5230MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed	IEEE 802.11a	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 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 Type	Dipole and PIFA	

Antenna array Gain:

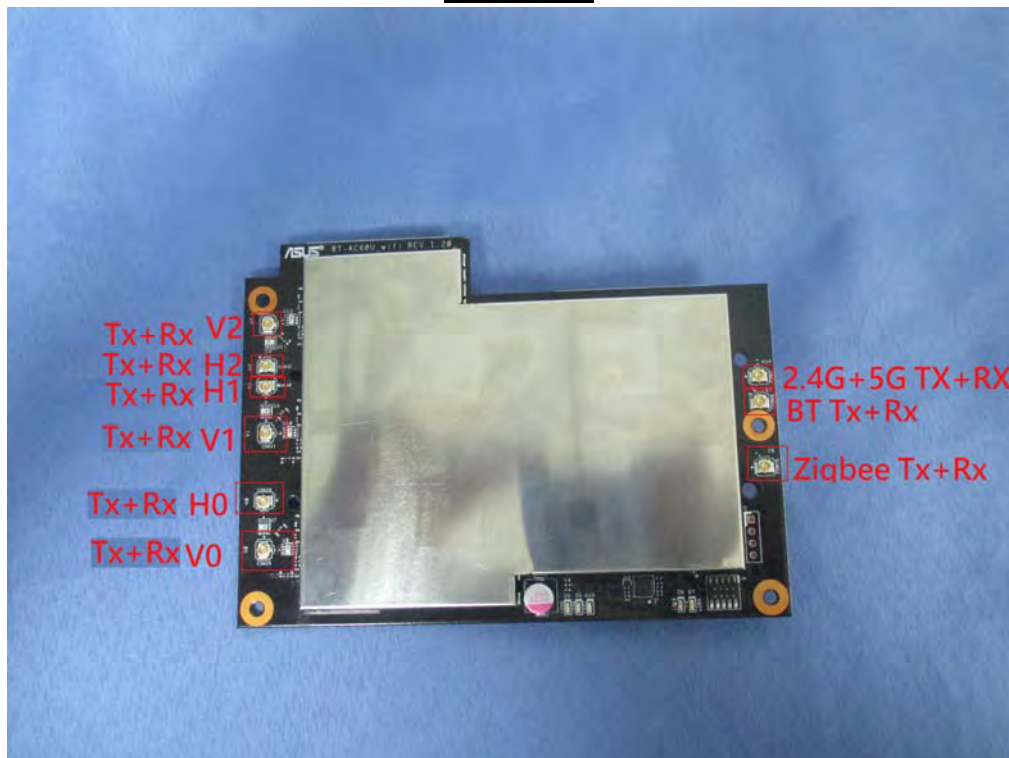
	V0 V1 V2	V0 V1 H2	V0 H1 V2	V0 H1 H2	H0 V1 V2	H0 V1 H2	H0 H1 V2	H0,H1,H2
2.4G	6.35	6.10	5.71	6.05	5.50	5.18	4.76	6.25
5G-band1	8.33	7.02	7.58	7.72	7.93	6.31	7.04	9.11
5G-band2	8.33	7.02	7.58	7.74	7.93	6.19	7.06	9.16
5G-band3	8.91	7.58	7.79	7.88	7.99	7.04	7.37	9.15
5G-band4	8.95	7.51	7.80	8.41	7.36	7.17	7.48	9.34

Component	
LAN Cable	Non-Shielded, 1.8m, 2 PCS
Power Adatper	PIE, AD891M21 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V $\overline{\text{---}}$ 1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	I.T.E., AD890326 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V $\overline{\text{---}}$ 1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	Delta, ADP-33AW I/P: 100-240V~1A 50-60Hz O/P : 19V $\overline{\text{---}}$ 1.75A Cable Out: Non-Shielded, 1.8m

ANT-TX / RX & Bandwidth

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

3TX / 3RX



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

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

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

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

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

Working Frequency of Each Channel			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
42	5210 MHz

Note:

1. This device is an ASUS SRT-AC1900 Wireless Smart Router including 5GHz a/n/ac (3x3) / 2.4GHz (1x1) 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 5.2GHz is performed according to the UNII Test Procedures New Rules.
5. The function of the 2.4GHz & 5.8GHz transmitting is measured and makes a test report of the report number: 1550110R-RFUSP01V00-A & 1550110R-RFUSP01V00-B & 1550110R-RFUSP28V00.
6. This device has USB and Ethernet ports, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1550110R-RFUSP01V00 under part 15B with Declaration of Conformity letter.

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: Tx- Horizontal Antenna (AD891M21) Mode 2: Tx- Vertical Antenna (AD891M21) Mode 3: Tx- Horizontal Antenna (AD890326) Mode 4: Tx- Vertical Antenna (AD890326) Mode 5: Tx- Horizontal Antenna (ADP-33AW) Mode 6: Tx- Vertical Antenna (ADP-33AW)
----	--

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42	0+1+2	Complies
99 % & 26dB Bandwidth	11a	36/44/48	0/1/2	Complies
	11n (20MHz)	36/44/48	0/1/2	Complies
	11n (40MHz)	38/46	0/1/2	Complies
	11ac (80MHz)	42	0/1/2	Complies
Peak Transmit Output	11a	36/44/48	0+1+2	Complies
	11n (20MHz)	36/44/48	0+1+2	Complies
	11n (40MHz)	38/46	0+1+2	Complies
	11ac (80MHz)	42	0+1+2	Complies
Peak Power Spectrum Density	11a	36/44/48	0+1+2	Complies
	11n (20MHz)	36/44/48	0+1+2	Complies
	11n (40MHz)	38/46	0+1+2	Complies
	11ac (80MHz)	42	0+1+2	Complies

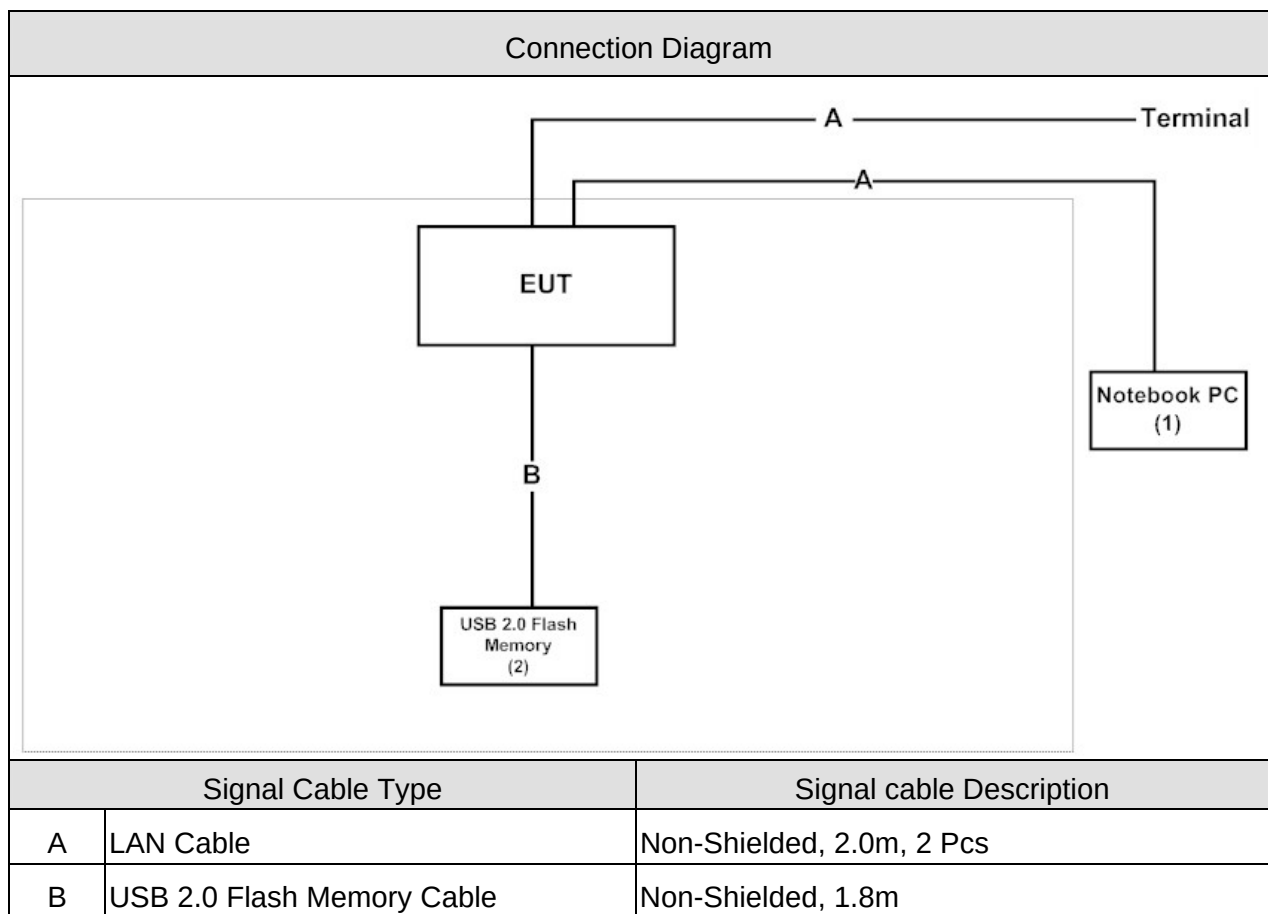
Test Items	Modulation	Channel	Antenna	Result
Radiated Emission	11a	36/44/48	0+1+2	Complies
	11n (20MHz)	36/44/48	0+1+2	Complies
	11n (40MHz)	38/46	0+1+2	Complies
	11ac (80MHz)	42	0+1+2	Complies
Band Edge	11a	36	0+1+2	Complies
	11n (20MHz)	36	0+1+2	Complies
	11n (40MHz)	38	0+1+2	Complies
	11ac (80MHz)	42	0+1+2	Complies
Frequency Stability	11a	36/44/48	0/1/2	Complies
	11n (20MHz)	36/44/48	0/1/2	Complies
	11n (40MHz)	38/46	0/1/2	Complies
	11ac (80MHz)	42	0/1/2	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	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
2 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
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
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99 % & 26dB Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Transmit Power	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum Density	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

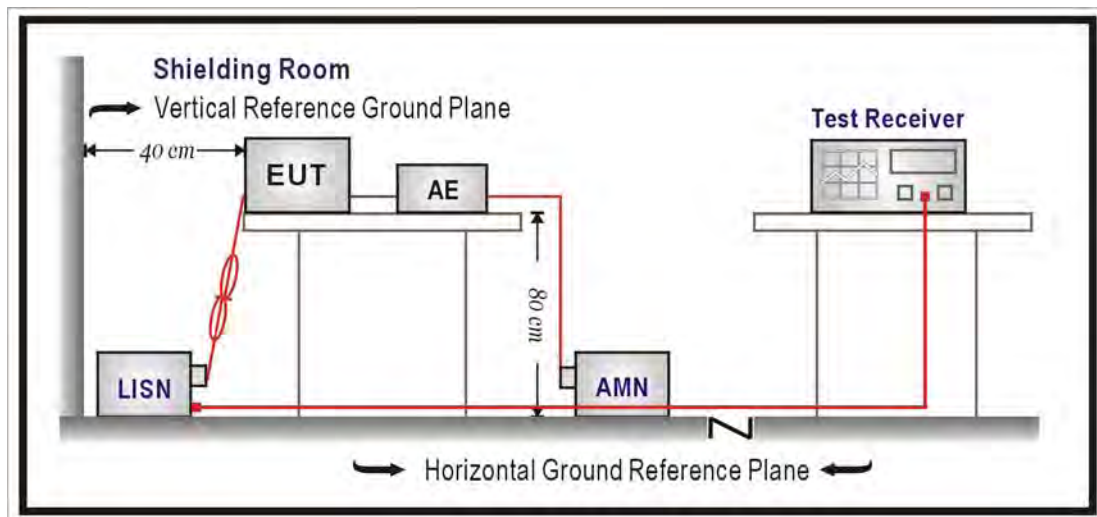
The following test equipments are used during the test:

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	2015/08/24
Test Receiver	R&S	ESCS 30	825442/014	2015/07/13

Note: 1. 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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.10:2009. 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

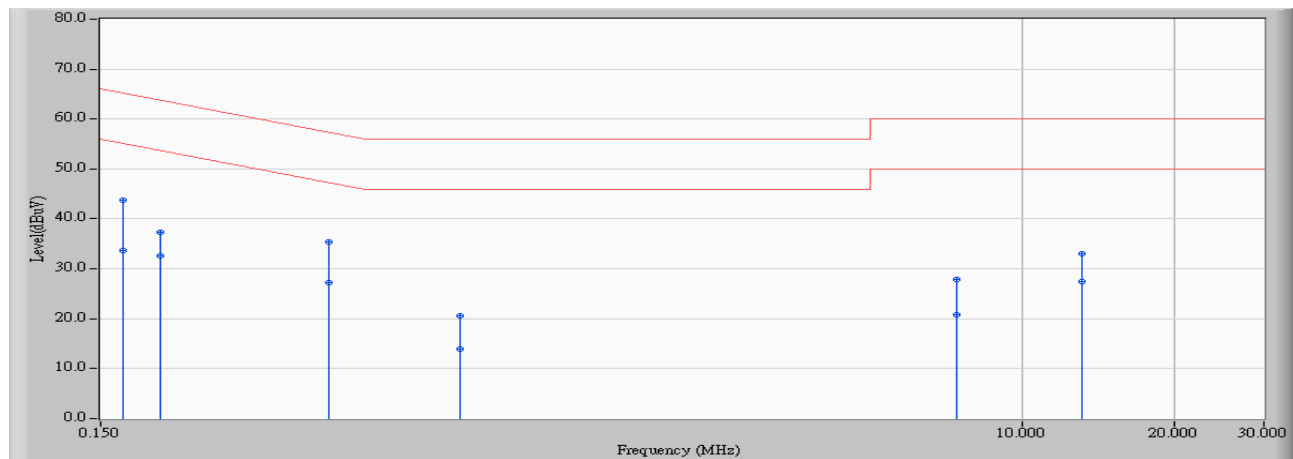
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/05/19 - 14:26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx- Horizontal Antenna (AD891M21) 802.11ac 5210MHz

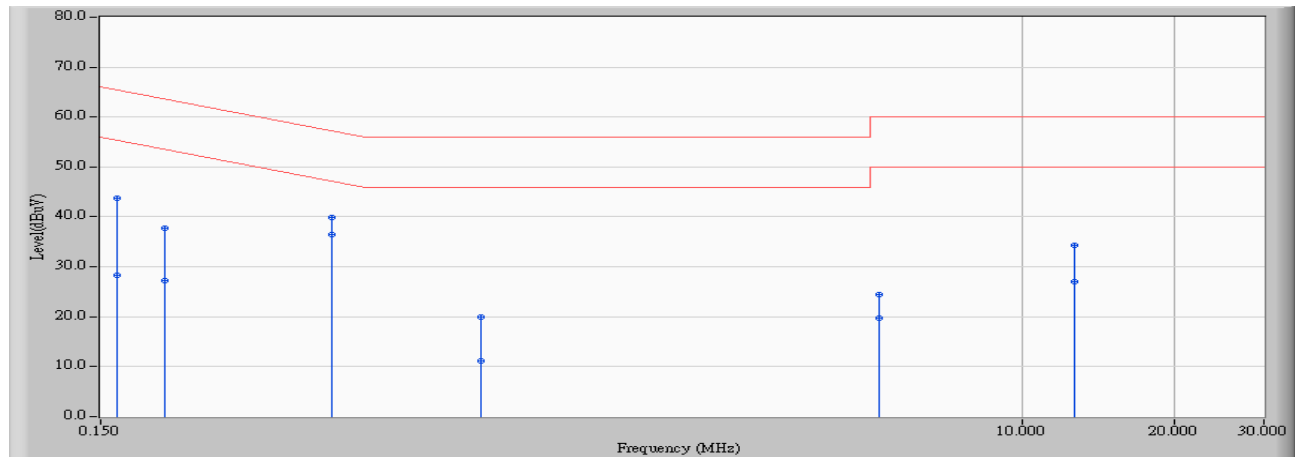


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.760	33.890	43.650	-21.527	65.177	QUASIPeAK
2		0.166	9.760	23.830	33.590	-21.587	55.177	AVERAGE
3		0.197	9.760	27.590	37.350	-26.392	63.741	QUASIPeAK
4		0.197	9.760	22.800	32.560	-21.182	53.741	AVERAGE
5		0.423	9.750	25.740	35.490	-21.890	57.380	QUASIPeAK
6	*	0.423	9.750	17.580	27.330	-20.050	47.380	AVERAGE
7		0.771	9.783	10.780	20.563	-35.437	56.000	QUASIPeAK
8		0.771	9.783	4.150	13.933	-32.067	46.000	AVERAGE
9		7.404	10.031	17.880	27.912	-32.088	60.000	QUASIPeAK
10		7.404	10.031	10.820	20.852	-29.148	50.000	AVERAGE
11		13.099	10.153	22.810	32.963	-27.037	60.000	QUASIPeAK
12		13.099	10.153	17.230	27.383	-22.617	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 : 2015/05/19 - 14:29
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx- Horizontal Antenna (AD891M21) 802.11ac 5210MHz

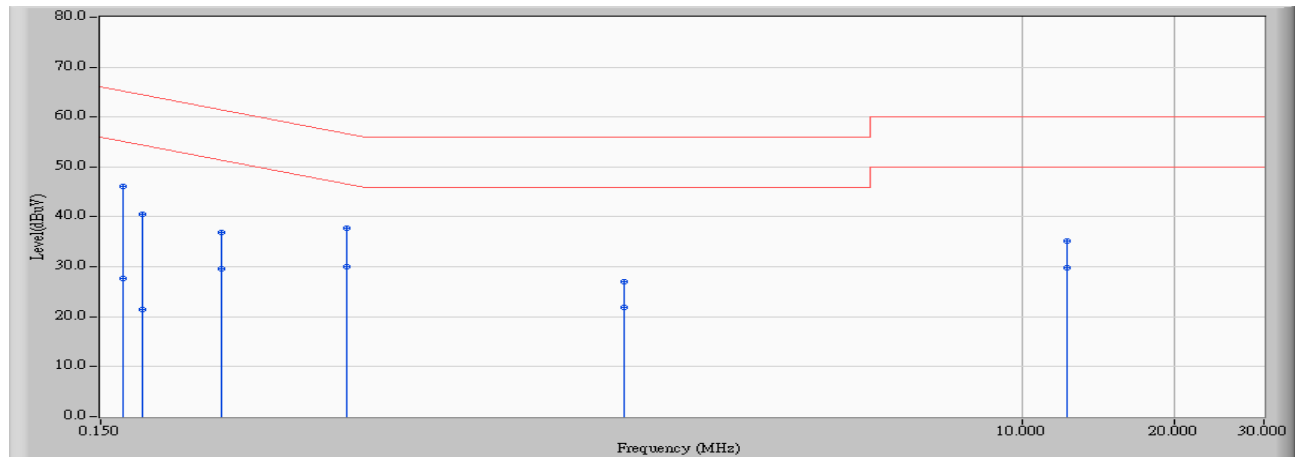


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.810	34.000	43.810	-21.565	65.375	QUASIPeAK
2		0.162	9.810	18.430	28.240	-27.135	55.375	AVERAGE
3		0.201	9.810	27.940	37.750	-25.828	63.578	QUASIPeAK
4		0.201	9.810	17.510	27.320	-26.258	53.578	AVERAGE
5		0.431	9.820	30.100	39.920	-17.309	57.229	QUASIPeAK
6	*	0.431	9.820	26.740	36.560	-10.669	47.229	AVERAGE
7		0.849	9.855	10.140	19.995	-36.005	56.000	QUASIPeAK
8		0.849	9.855	1.310	11.165	-34.835	46.000	AVERAGE
9		5.213	10.048	14.370	24.418	-35.582	60.000	QUASIPeAK
10		5.213	10.048	9.670	19.718	-30.282	50.000	AVERAGE
11		12.689	10.263	24.000	34.263	-25.737	60.000	QUASIPeAK
12		12.689	10.263	16.820	27.083	-22.917	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 : 2015/05/19 - 16:26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx- Horizontal Antenna (AD890326) 802.11ac 5210MHz

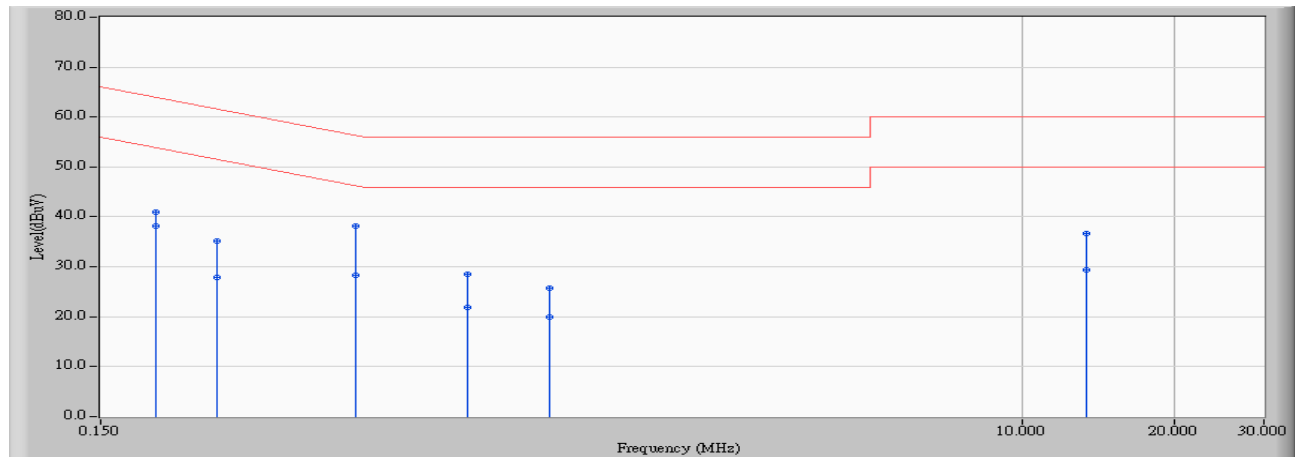


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.760	36.370	46.130	-19.047	65.177	QUASIPeAK
2		0.166	9.760	17.900	27.660	-27.517	55.177	AVERAGE
3		0.181	9.760	30.810	40.570	-23.858	64.428	QUASIPeAK
4		0.181	9.760	11.680	21.440	-32.988	54.428	AVERAGE
5		0.259	9.757	27.070	36.827	-24.624	61.451	QUASIPeAK
6		0.259	9.757	19.820	29.577	-21.874	51.451	AVERAGE
7		0.459	9.751	27.960	37.711	-19.007	56.718	QUASIPeAK
8	*	0.459	9.751	20.340	30.091	-16.627	46.718	AVERAGE
9		1.630	9.816	17.240	27.056	-28.944	56.000	QUASIPeAK
10		1.630	9.816	12.070	21.886	-24.114	46.000	AVERAGE
11		12.244	10.138	25.130	35.268	-24.732	60.000	QUASIPeAK
12		12.244	10.138	19.610	29.748	-20.252	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 : 2015/05/19 - 16:27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx- Horizontal Antenna (AD890326) 802.11ac 5210MHz

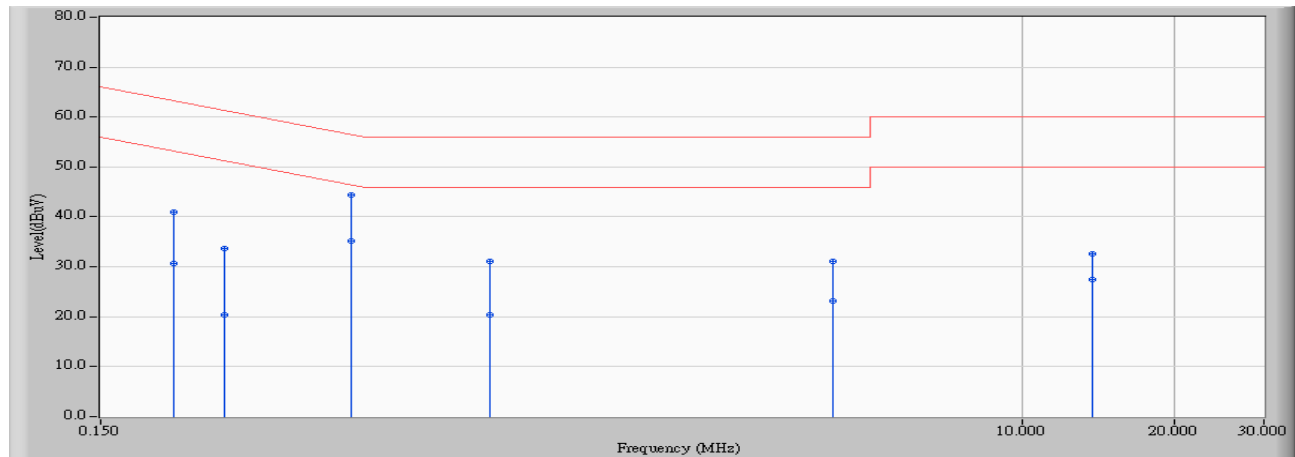


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	9.810	31.210	41.020	-22.888	63.908	QUASPEAK
2	*	0.193	9.810	28.300	38.110	-15.798	53.908	AVERAGE
3		0.255	9.813	25.420	35.233	-26.345	61.577	QUASPEAK
4		0.255	9.813	18.090	27.903	-23.675	51.577	AVERAGE
5		0.478	9.820	28.340	38.160	-18.212	56.372	QUASPEAK
6		0.478	9.820	18.490	28.310	-18.062	46.372	AVERAGE
7		0.798	9.850	18.590	28.440	-27.560	56.000	QUASPEAK
8		0.798	9.850	11.990	21.840	-24.160	46.000	AVERAGE
9		1.158	9.872	15.960	25.832	-30.168	56.000	QUASPEAK
10		1.158	9.872	10.170	20.042	-25.958	46.000	AVERAGE
11		13.404	10.281	26.320	36.602	-23.398	60.000	QUASPEAK
12		13.404	10.281	19.130	29.412	-20.588	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 : 2015/05/19 - 15:54
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : : Mode 5: Tx- Horizontal Antenna (ADP-33AW) 802.11ac 5210MHz

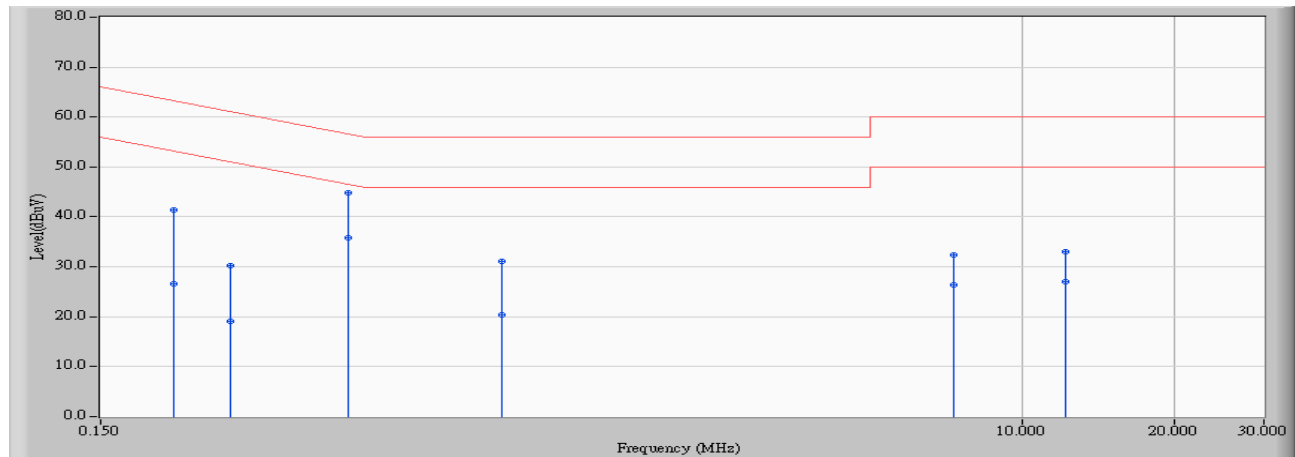


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.209	9.759	31.130	40.889	-22.372	63.261	QUASPEAK
2		0.209	9.759	20.990	30.749	-22.512	53.261	AVERAGE
3		0.263	9.757	23.810	33.567	-27.760	61.327	QUASPEAK
4		0.263	9.757	10.670	20.427	-30.900	51.327	AVERAGE
5		0.470	9.751	34.740	44.491	-12.017	56.508	QUASPEAK
6	*	0.470	9.751	25.480	35.231	-11.277	46.508	AVERAGE
7		0.884	9.796	21.350	31.147	-24.853	56.000	QUASPEAK
8		0.884	9.796	10.490	20.287	-25.713	46.000	AVERAGE
9		4.224	9.928	21.080	31.008	-24.992	56.000	QUASPEAK
10		4.224	9.928	13.280	23.208	-22.792	46.000	AVERAGE
11		13.693	10.163	22.380	32.543	-27.457	60.000	QUASPEAK
12		13.693	10.163	17.290	27.453	-22.547	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 : 2015/05/19 - 15:52
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : : Mode 5: Tx- Horizontal Antenna (ADP-33AW) 802.11ac 5210MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.209	9.811	31.550	41.361	-21.901	63.261	QUASPEAK
2		0.209	9.811	16.820	26.631	-26.631	53.261	AVERAGE
3		0.271	9.813	20.360	30.173	-30.911	61.084	QUASPEAK
4		0.271	9.813	9.210	19.023	-32.061	51.084	AVERAGE
5		0.463	9.820	35.000	44.820	-11.828	56.648	QUASPEAK
6	*	0.463	9.820	26.060	35.880	-10.768	46.648	AVERAGE
7		0.931	9.863	21.220	31.083	-24.917	56.000	QUASPEAK
8		0.931	9.863	10.450	20.313	-25.687	46.000	AVERAGE
9		7.310	10.111	22.180	32.290	-27.710	60.000	QUASPEAK
10		7.310	10.111	16.360	26.470	-23.530	50.000	AVERAGE
11		12.138	10.248	22.720	32.968	-27.032	60.000	QUASPEAK
12		12.138	10.248	16.690	26.938	-23.062	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 Bandwidth

3.1. Test Equipment

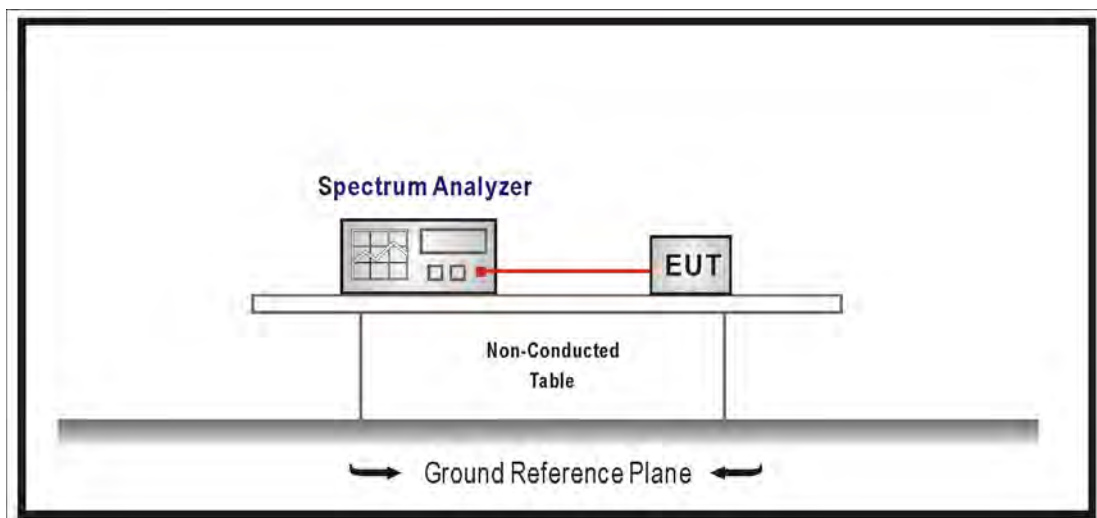
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. 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

3.4. Test Procedure

99% & 26dB Bandwidth :

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

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

3.5. Uncertainty

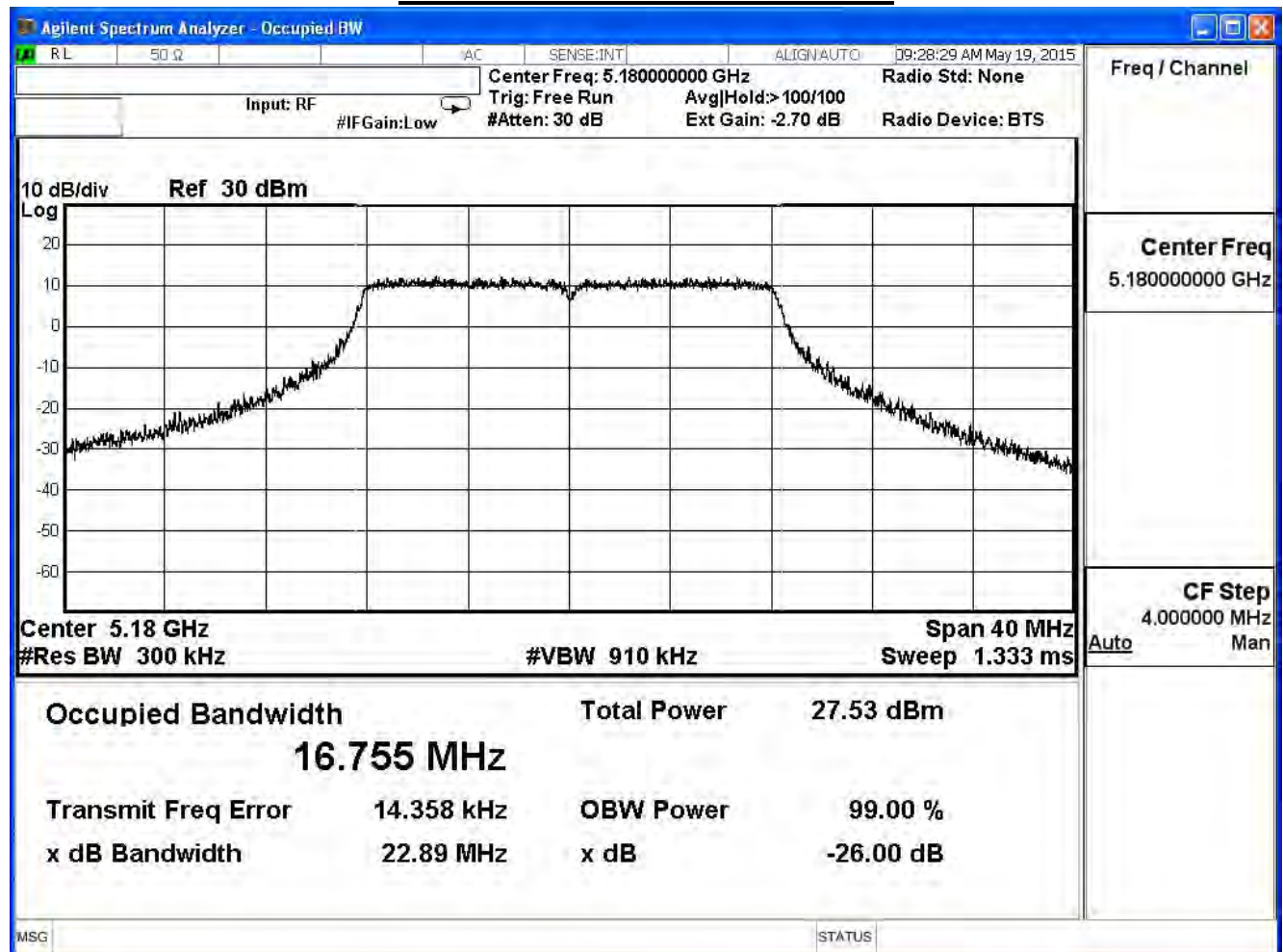
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

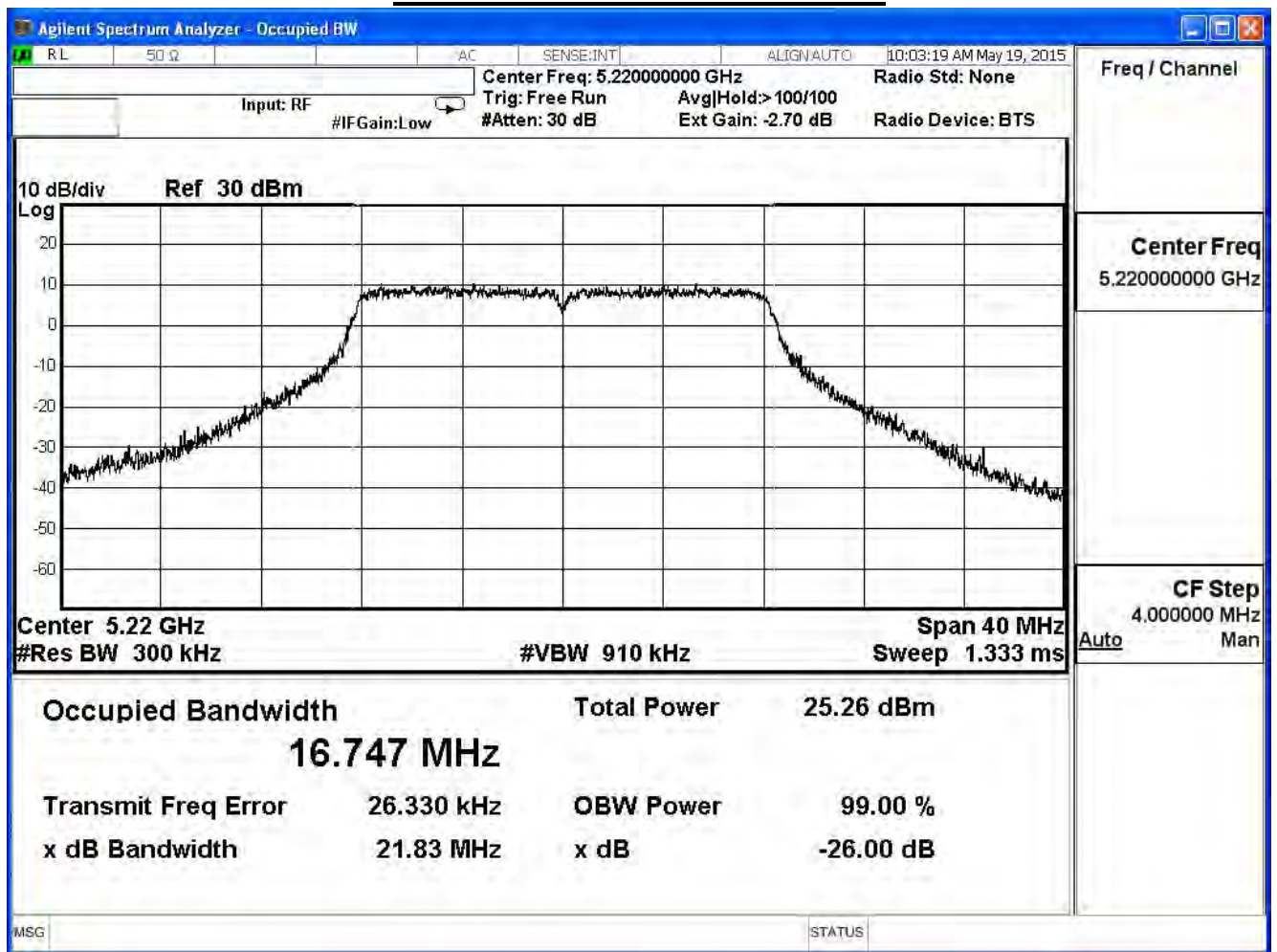
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 0)				
Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	22.89	16.755	--
44	5220	21.83	16.747	--
48	5240	21.97	16.740	--

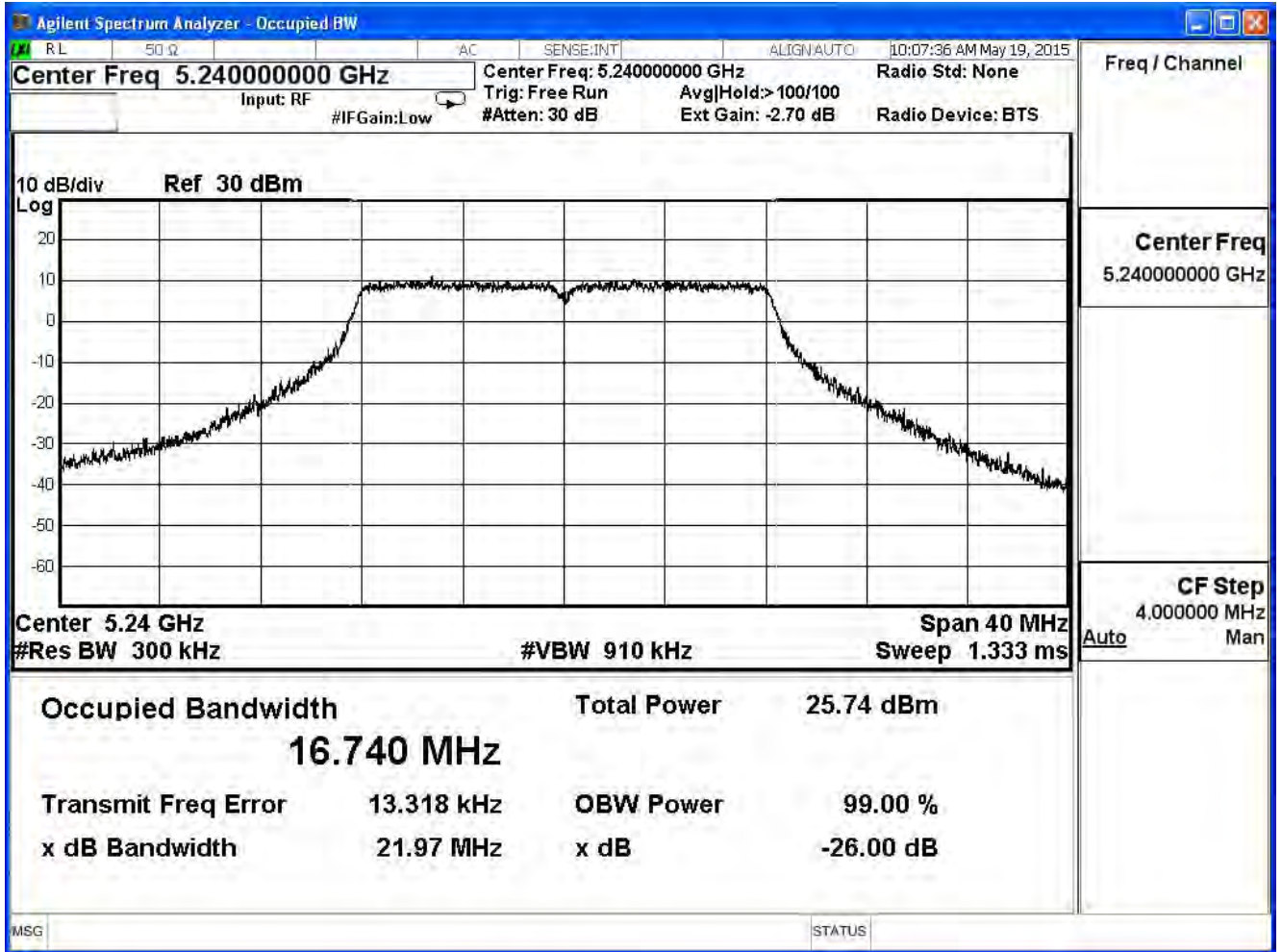
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

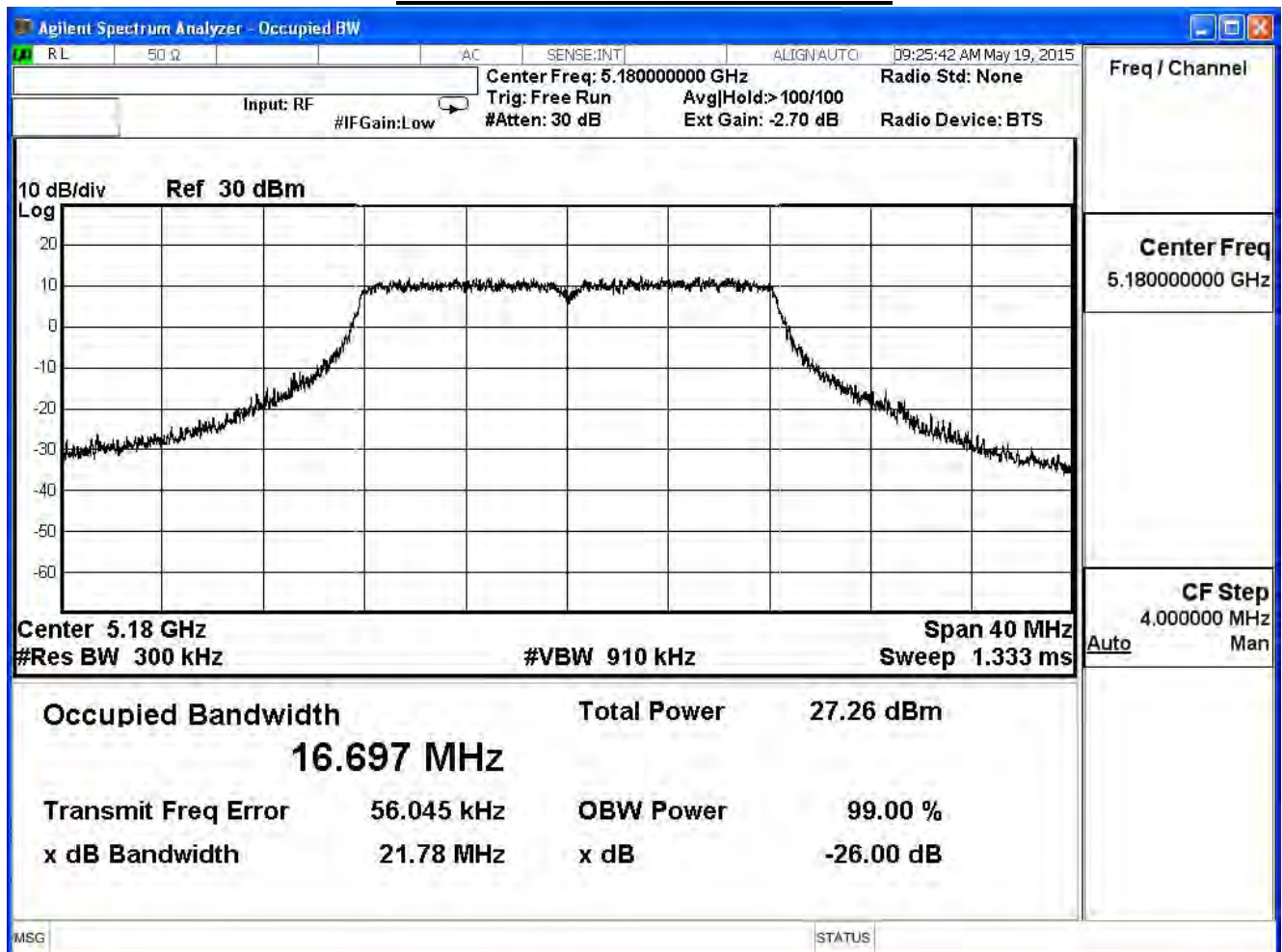


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

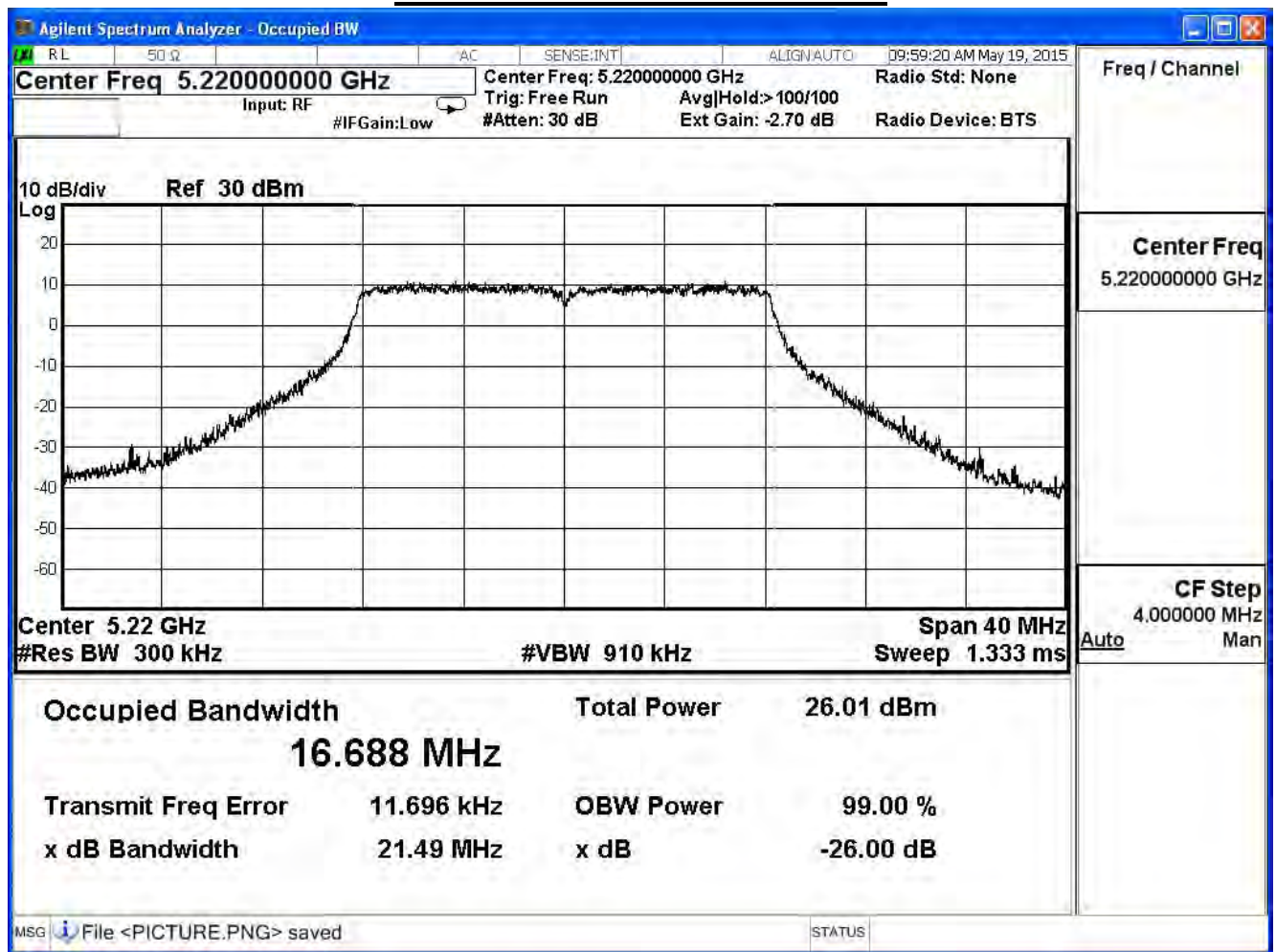
802.11a (ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	21.78	16.697	--
44	5220	21.49	16.688	--
48	5240	21.41	16.643	--

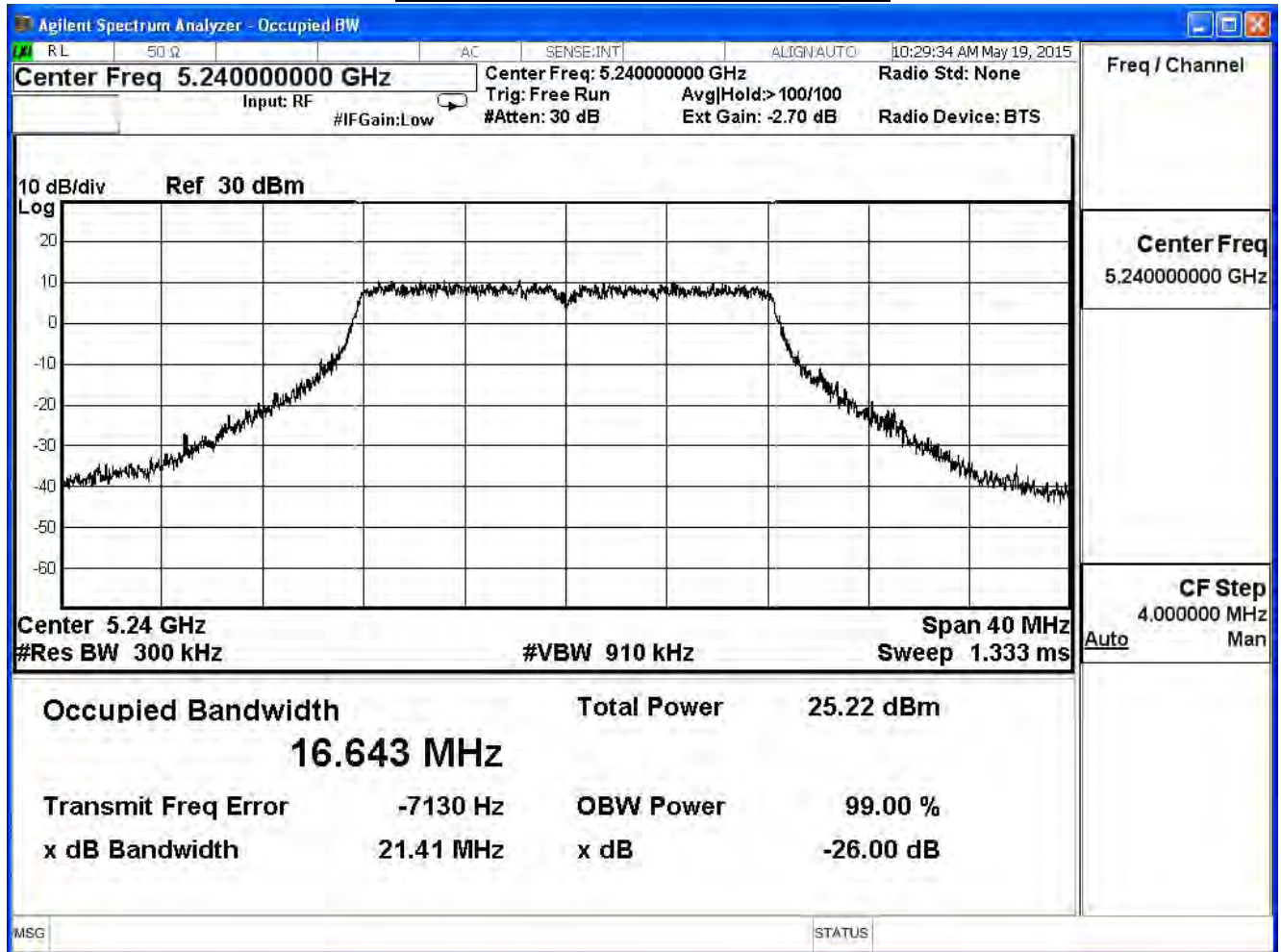
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

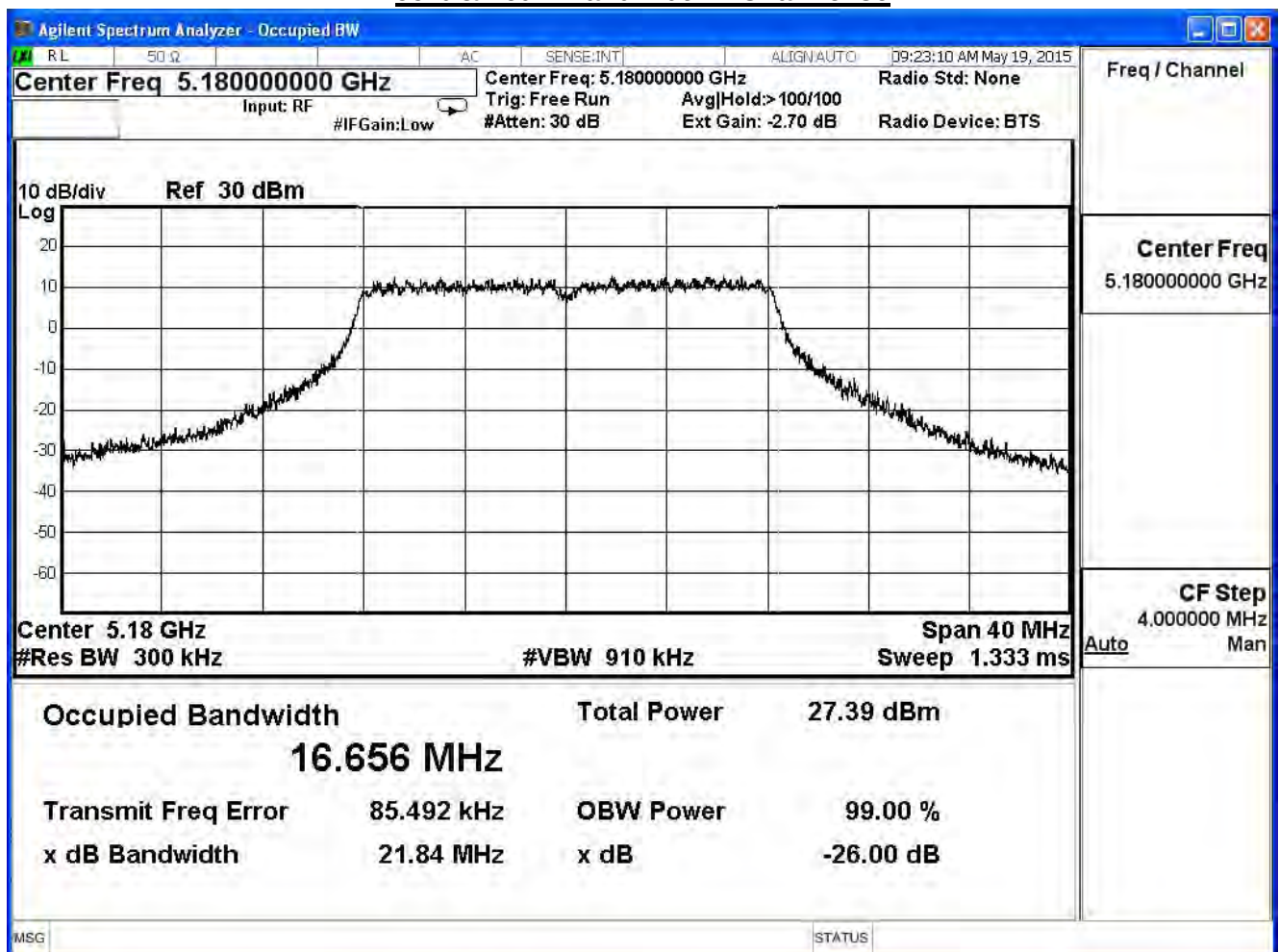


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

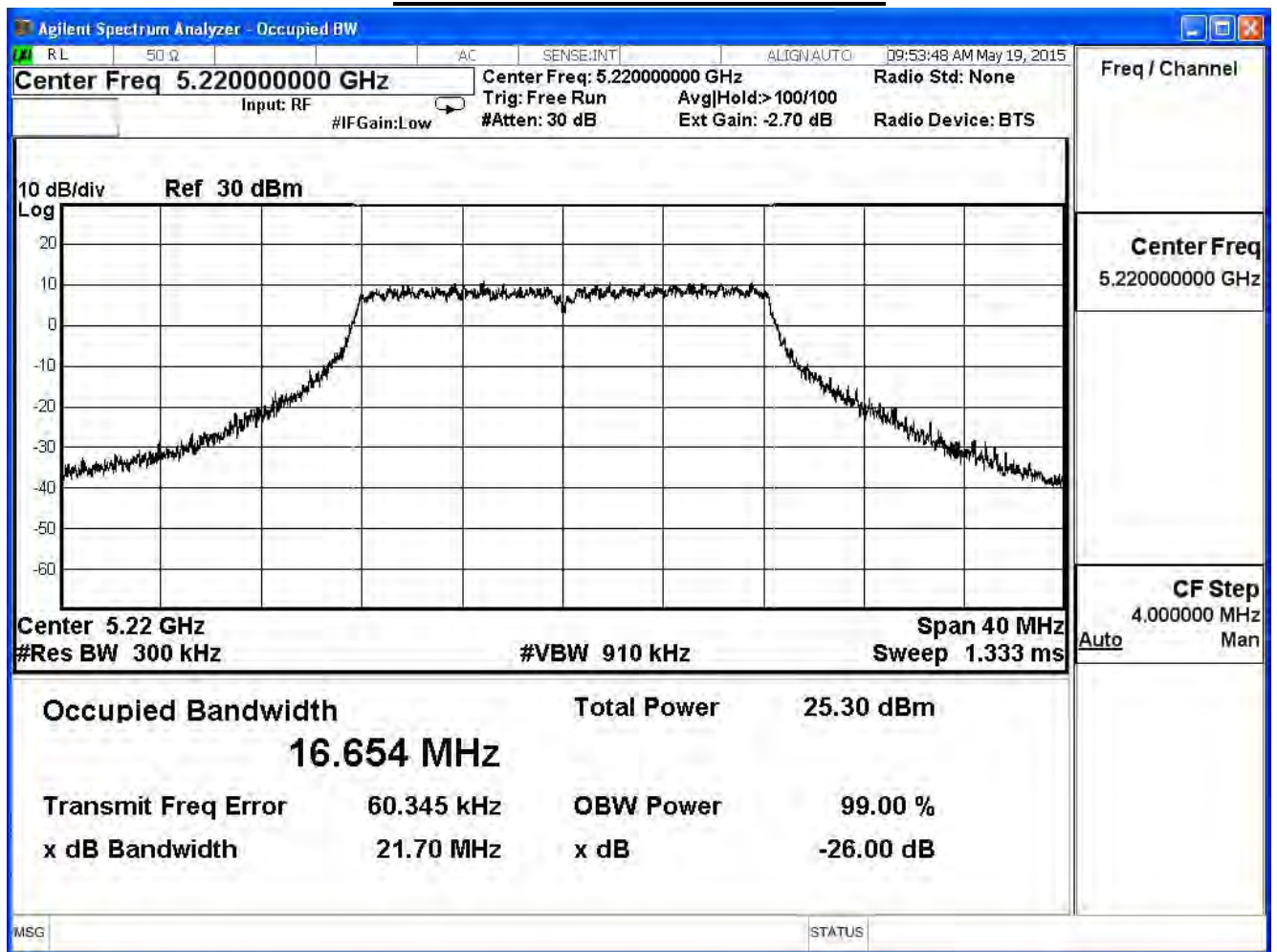
802.11a (ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	21.84	16.656	--
44	5220	21.70	16.654	--
48	5240	22.24	16.657	--

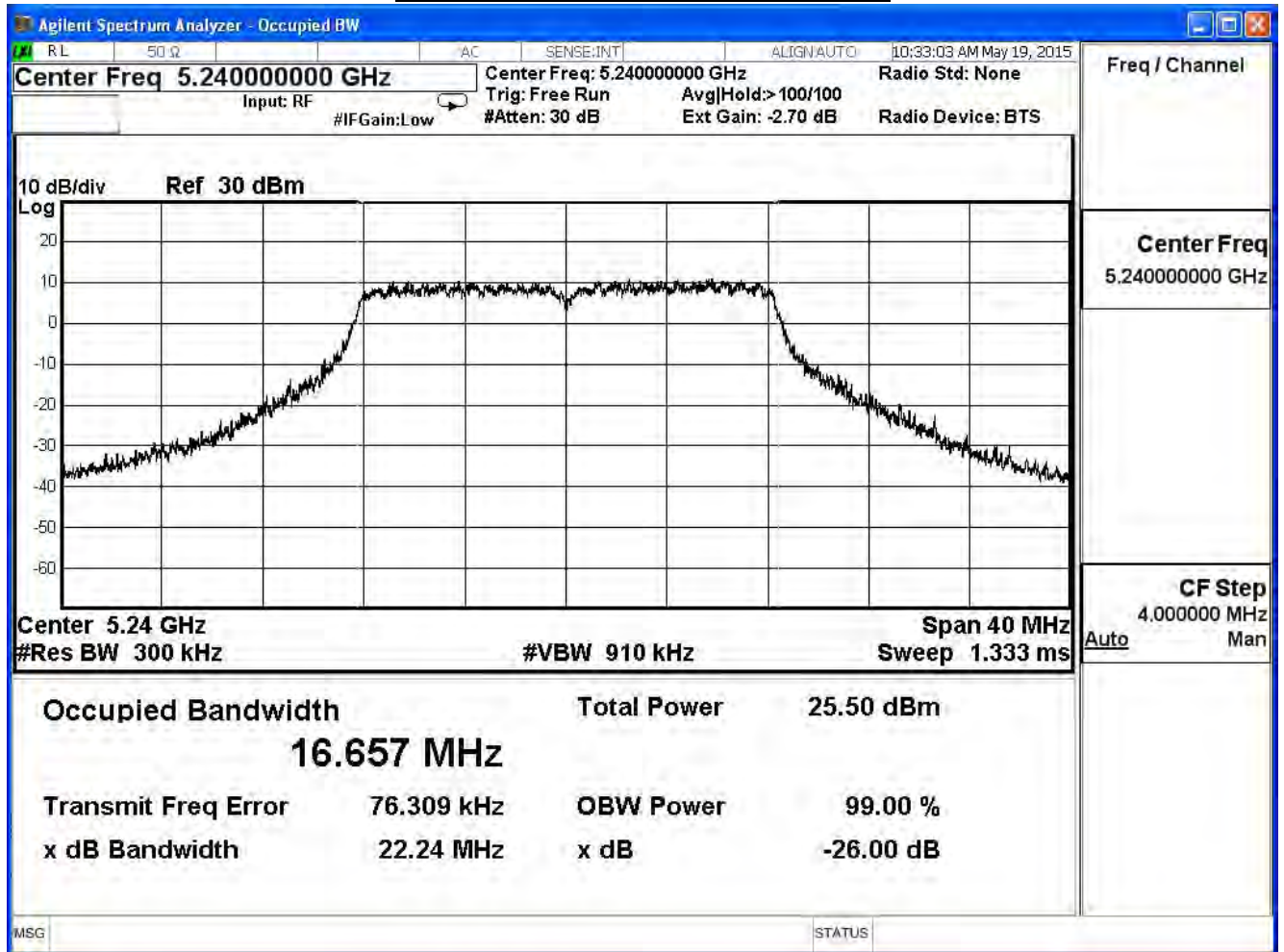
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

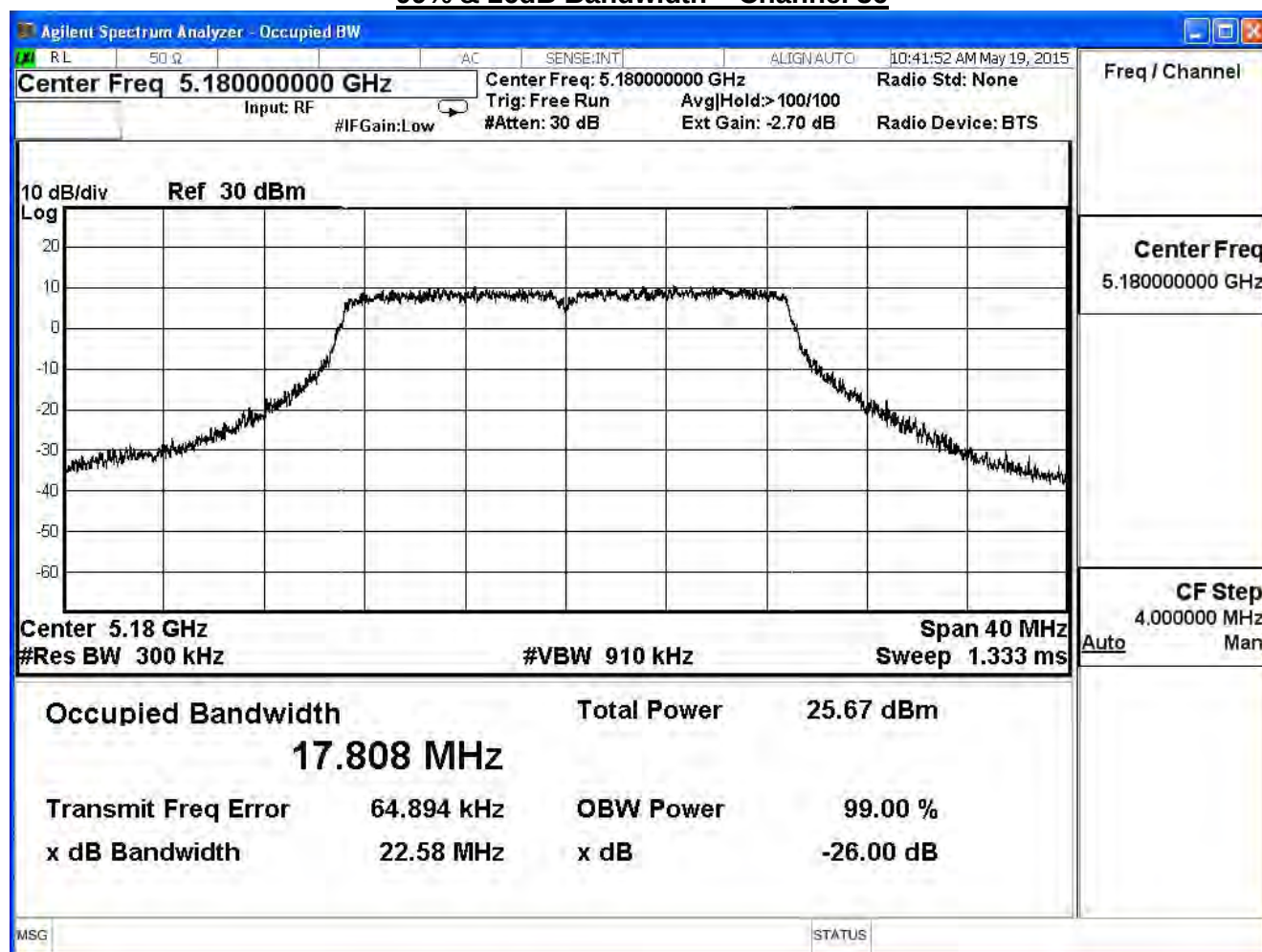


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

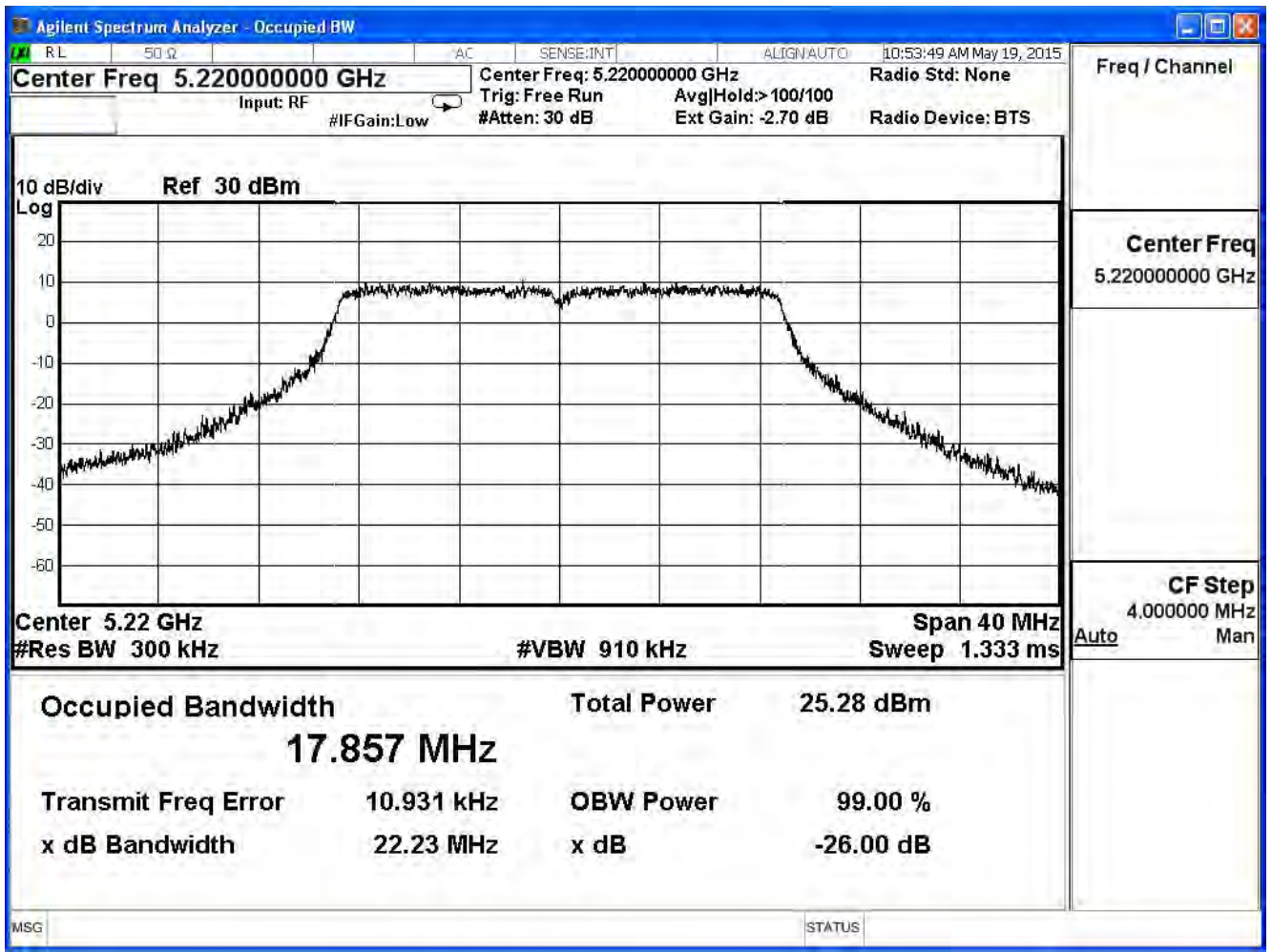
802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	22.58	17.808	--
44	5220	22.23	17.857	--
48	5240	23.56	17.890	--

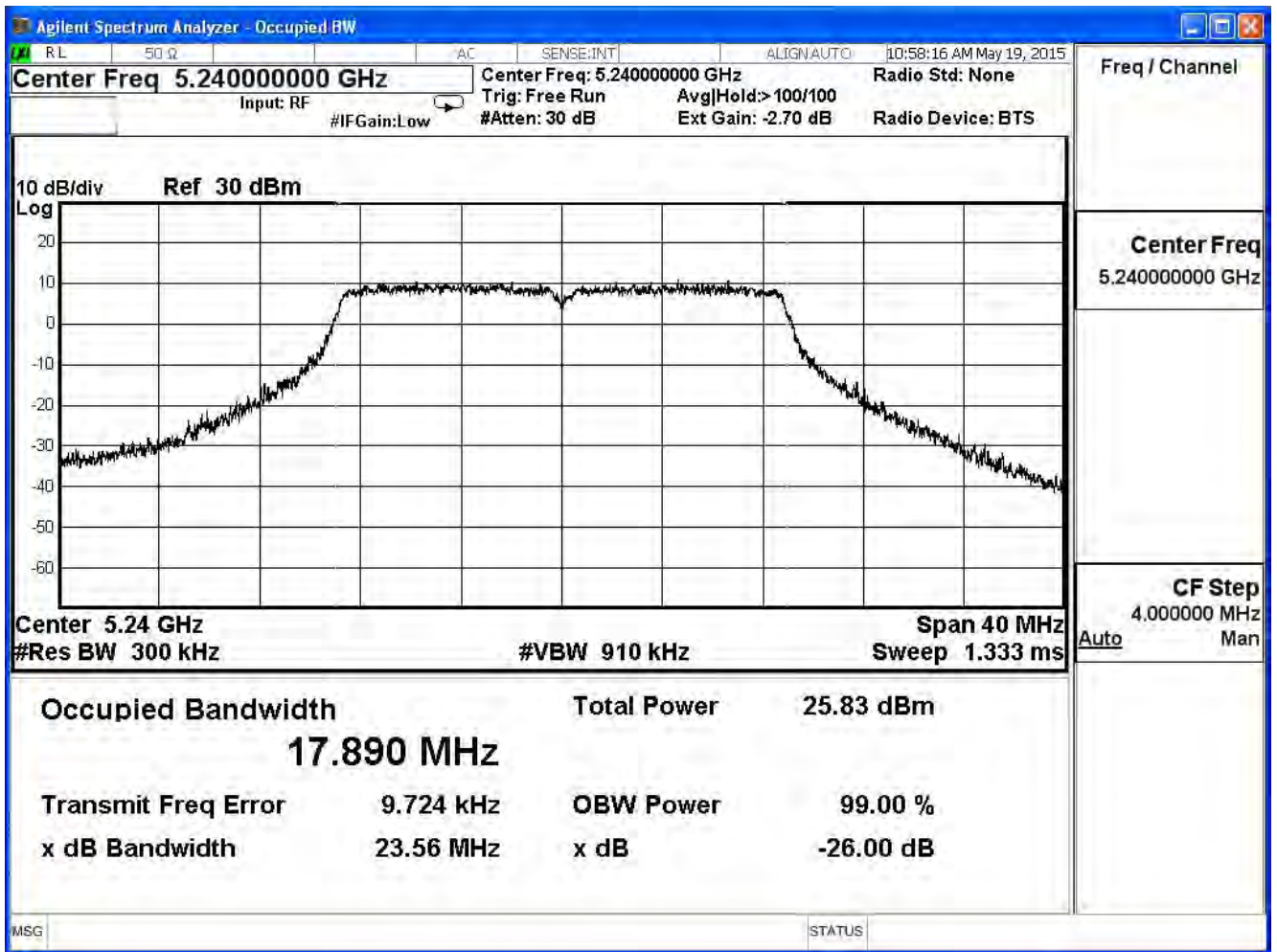
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

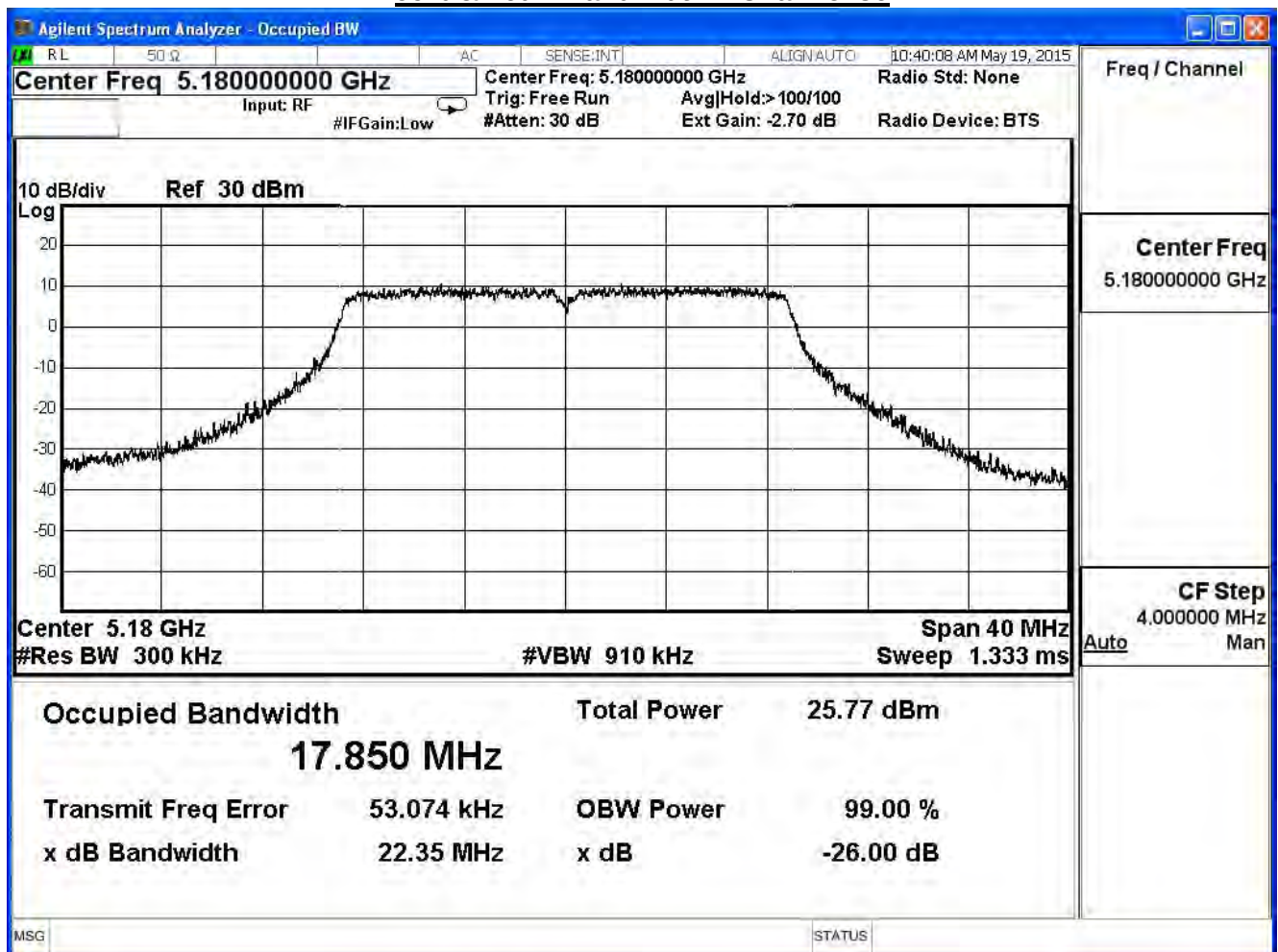


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

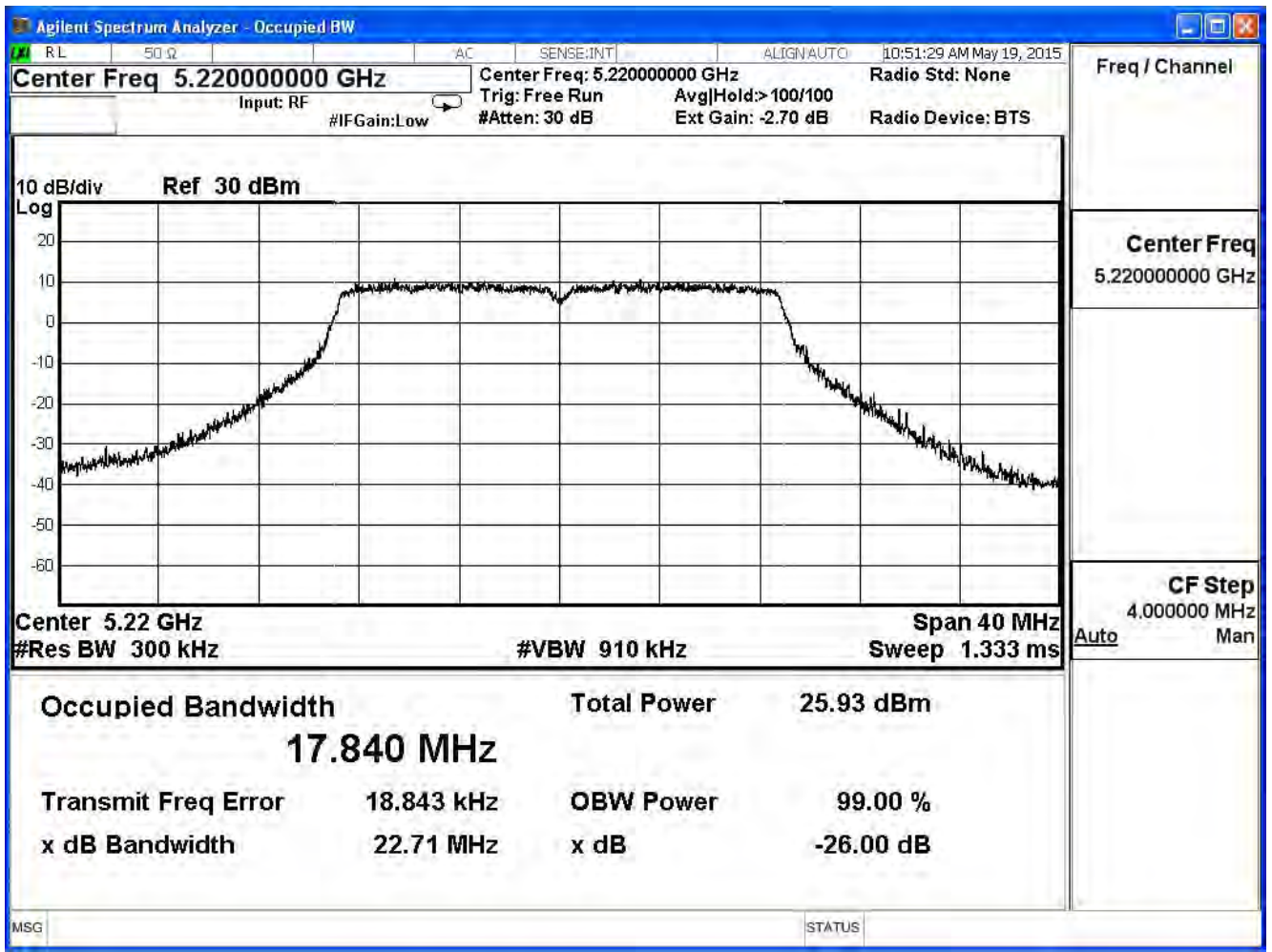
802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	22.35	17.850	--
44	5220	22.71	17.840	--
48	5240	22.95	17.822	--

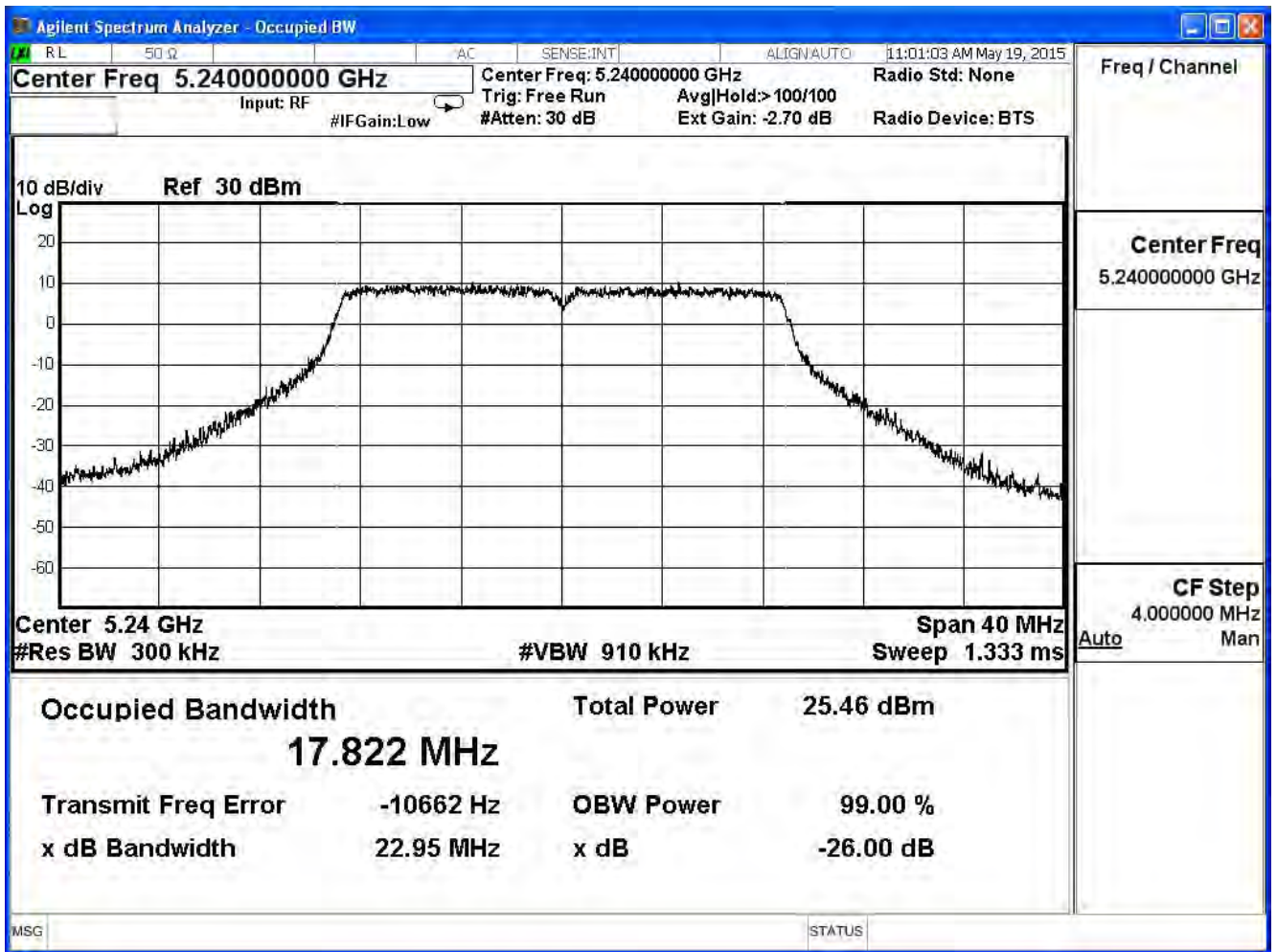
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

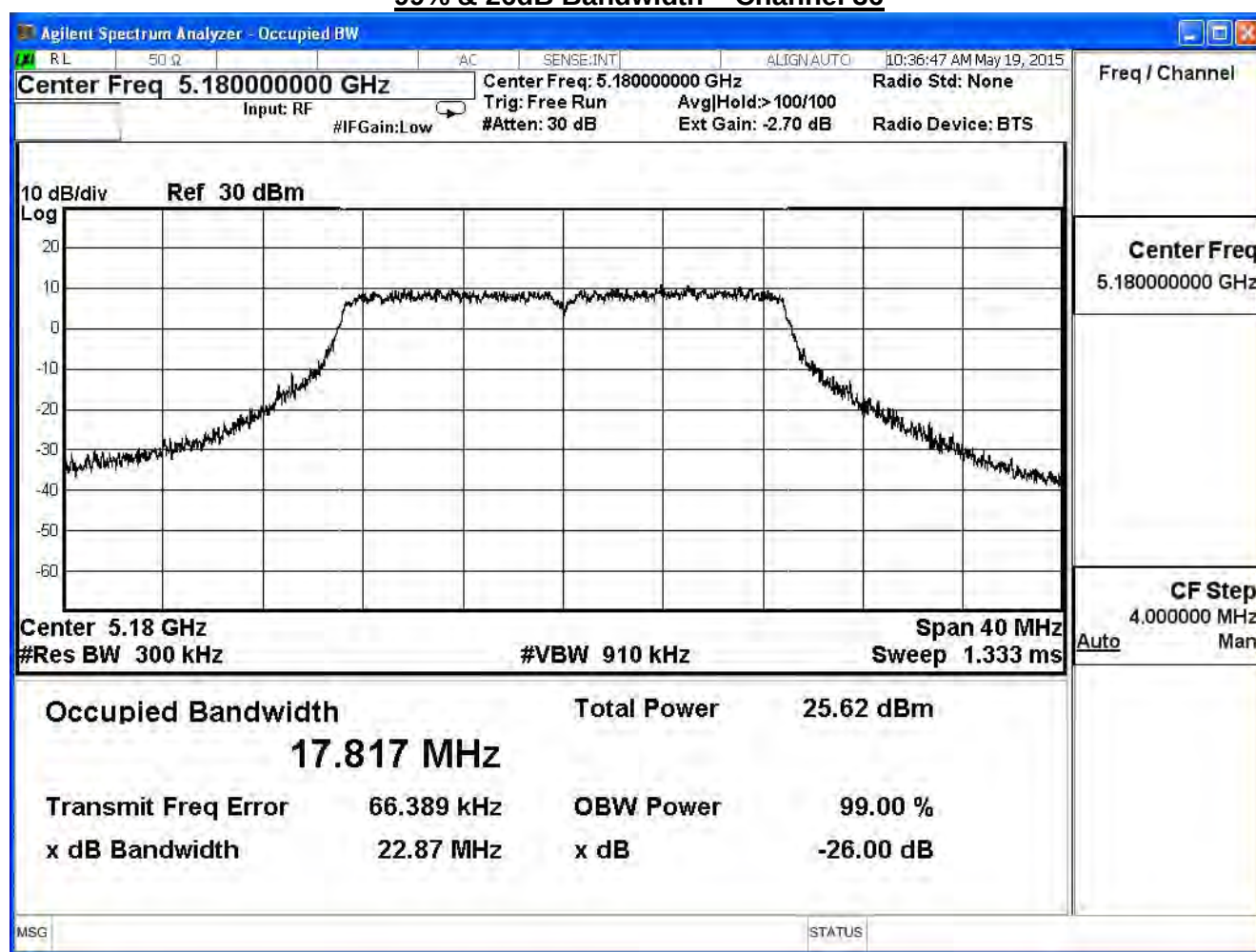


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

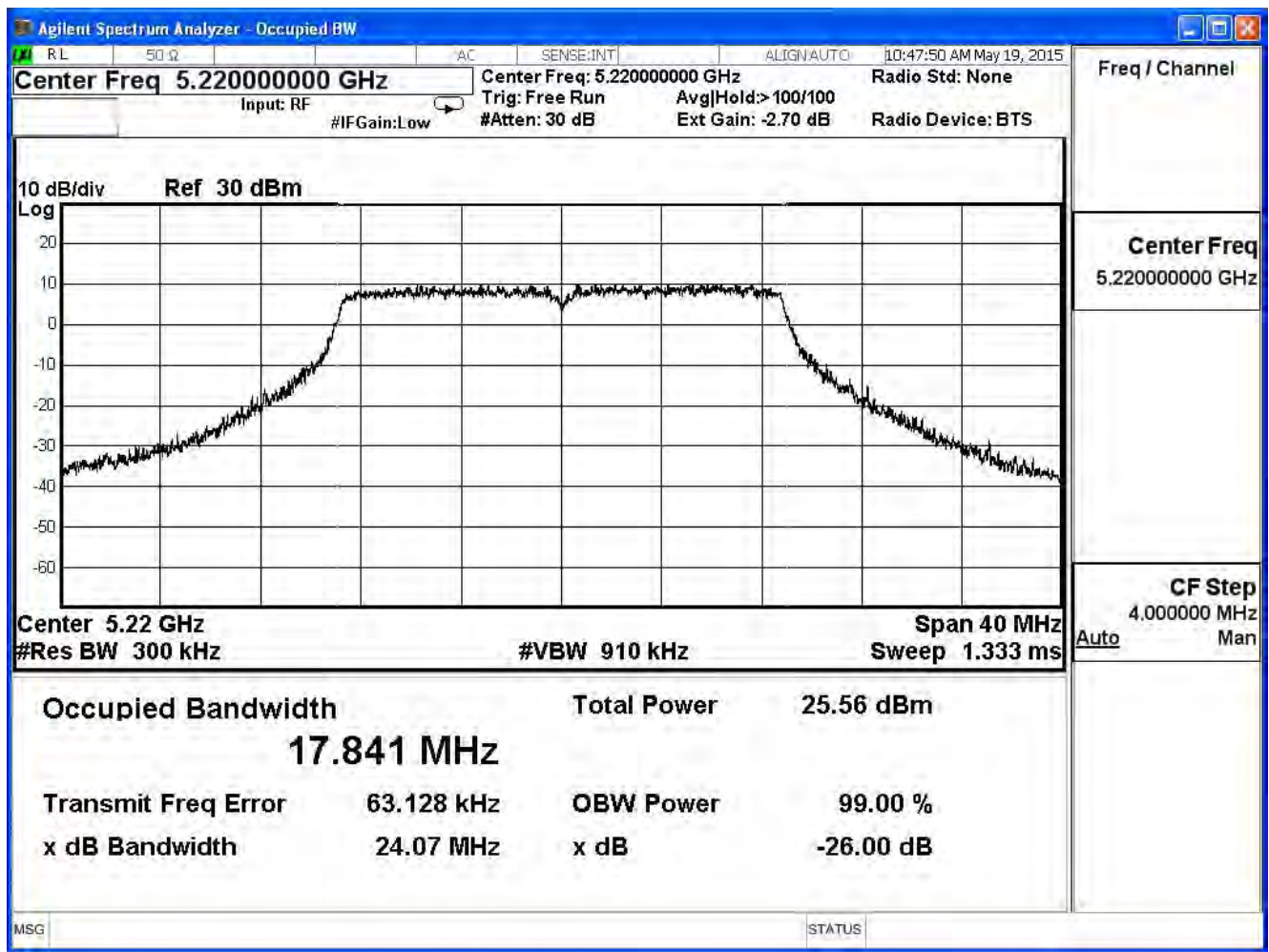
802.11n_20M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	22.87	17.817	--
44	5220	24.07	17.841	--
48	5240	22.57	17.837	--

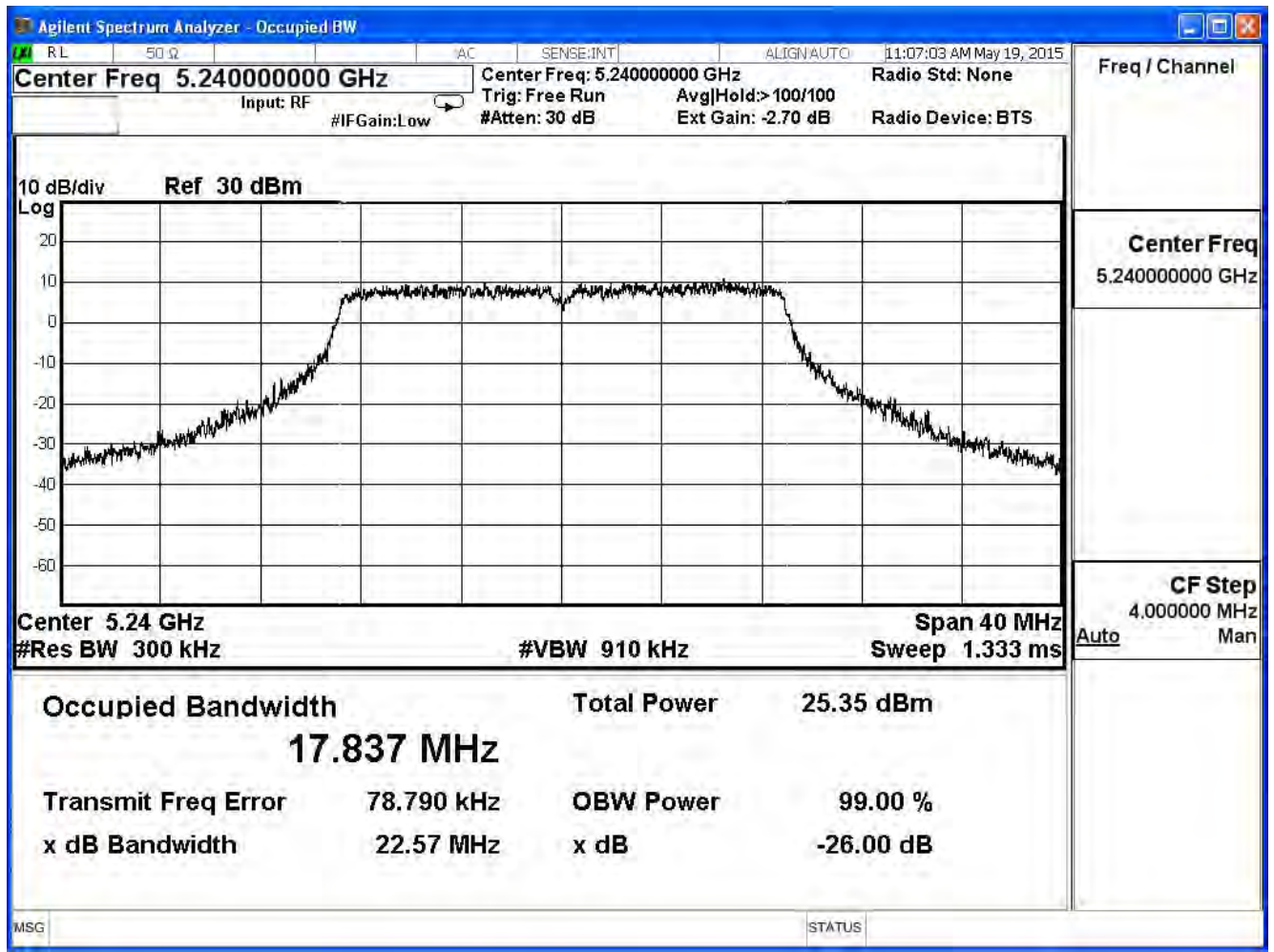
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

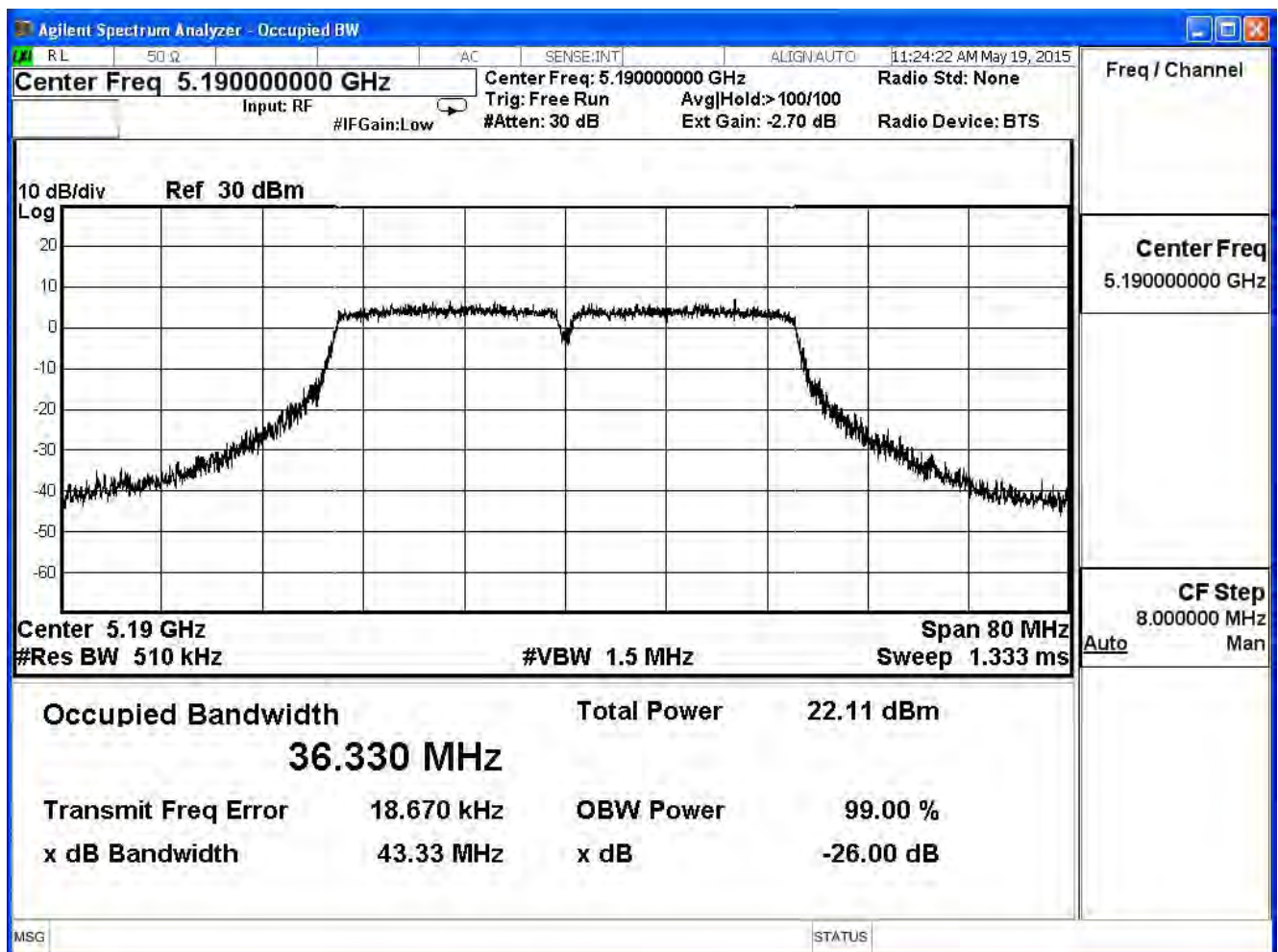


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

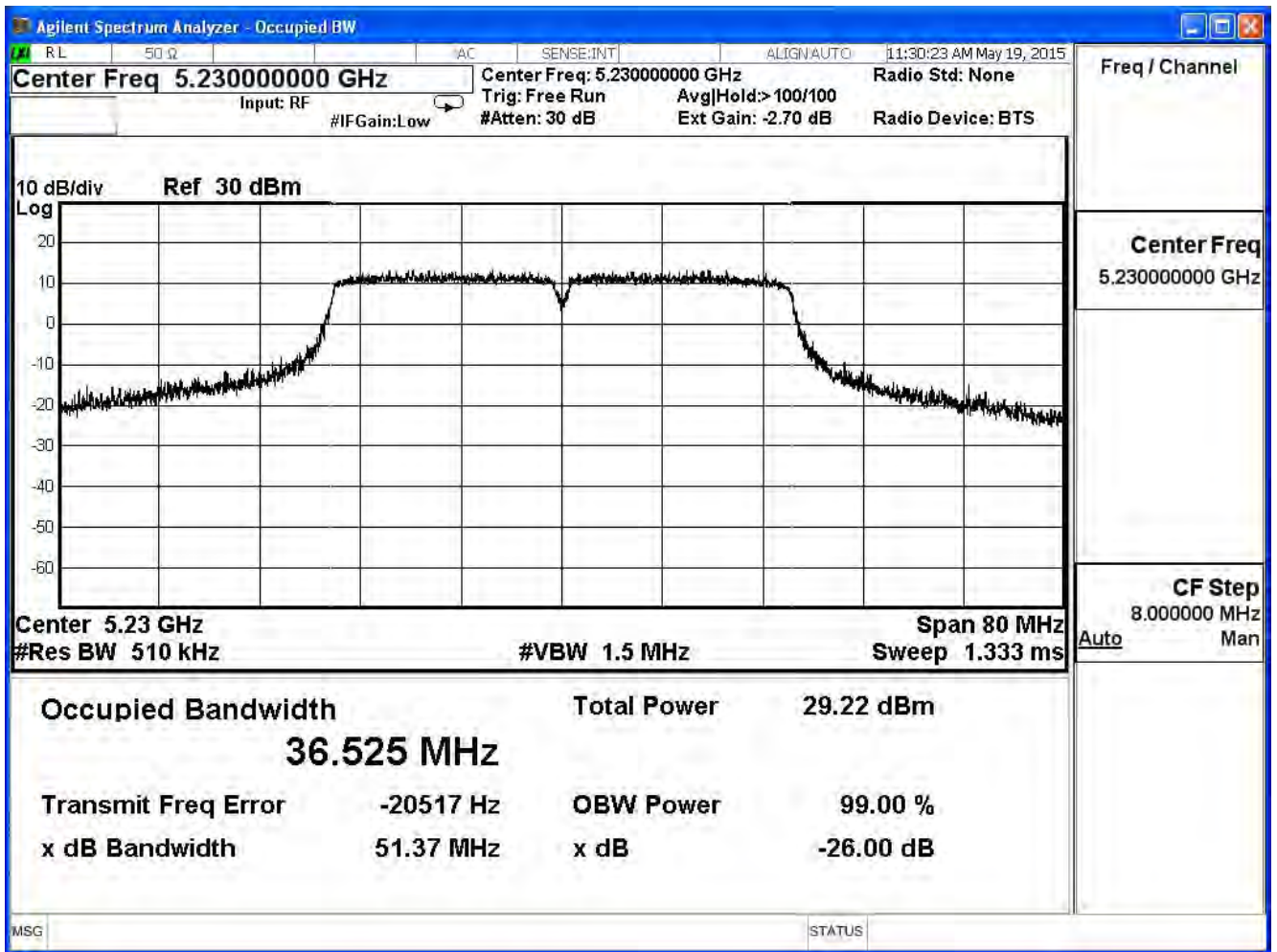
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	43.33	36.330	--
46	5230	51.37	36.525	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

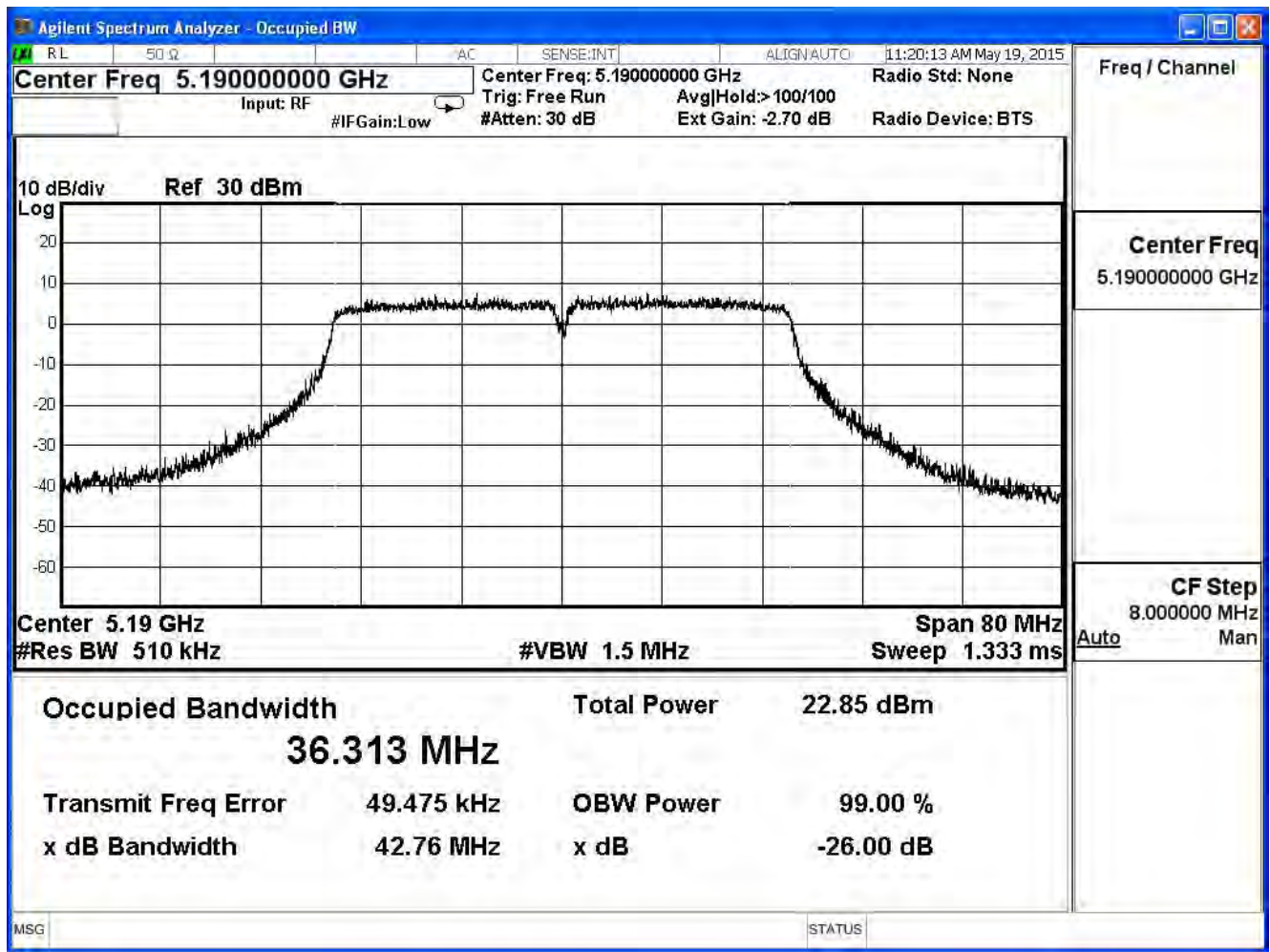


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

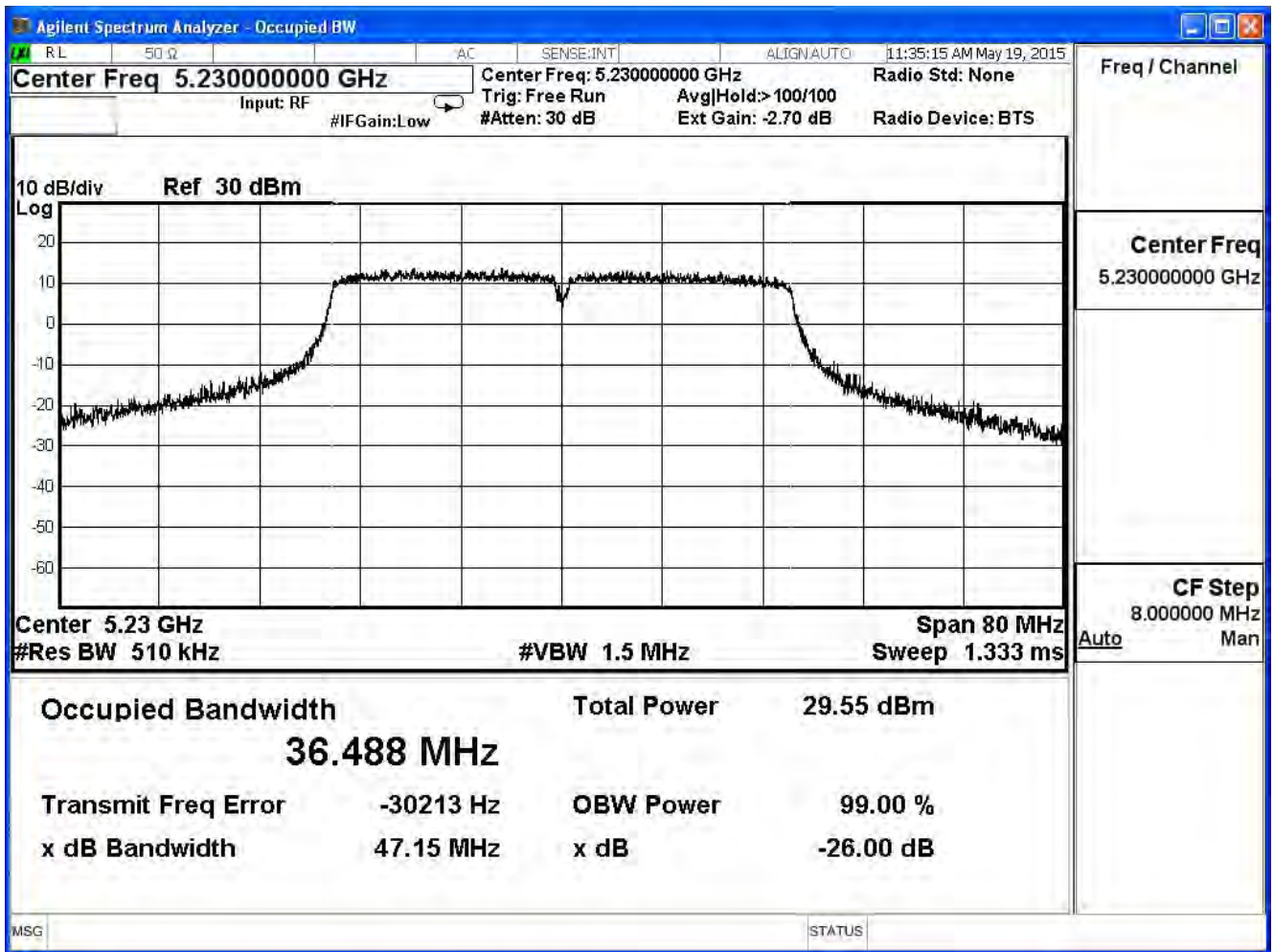
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	42.76	36.313	--
46	5230	47.15	36.488	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

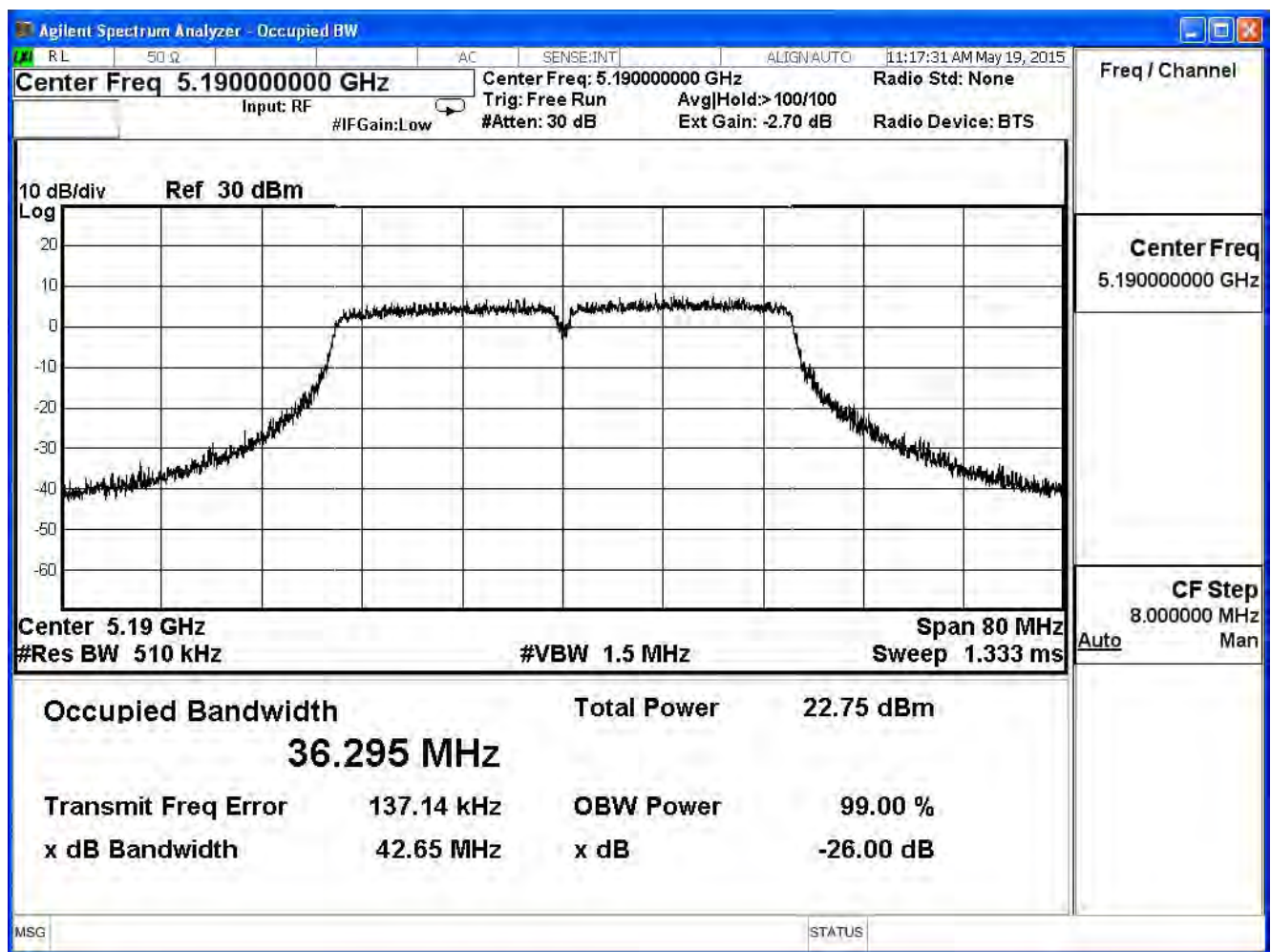


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

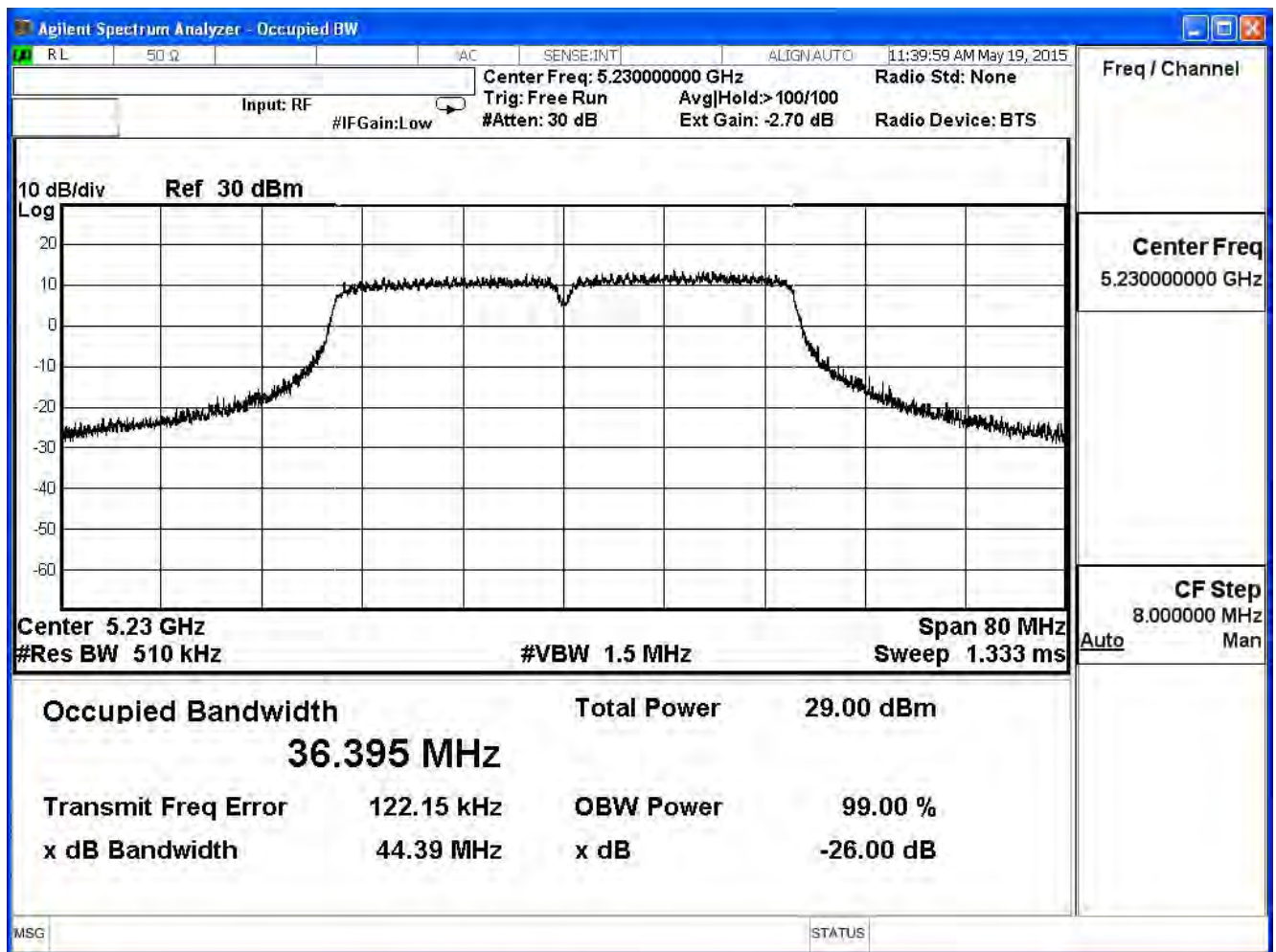
802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	42.65	36.295	--
46	5230	44.39	36.395	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

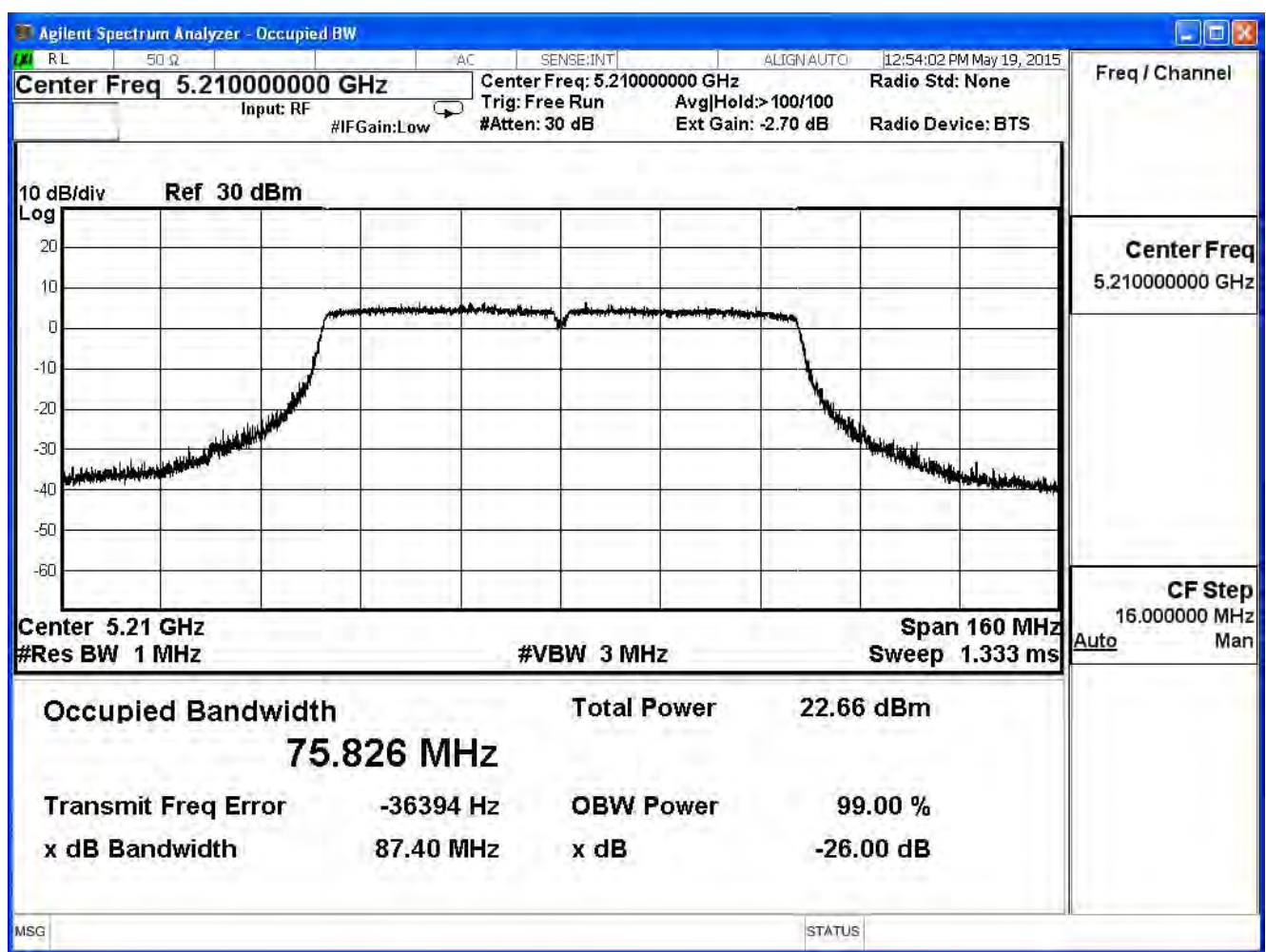


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	87.40	75.826	--

99% & 26dB Bandwidth – Channel 42

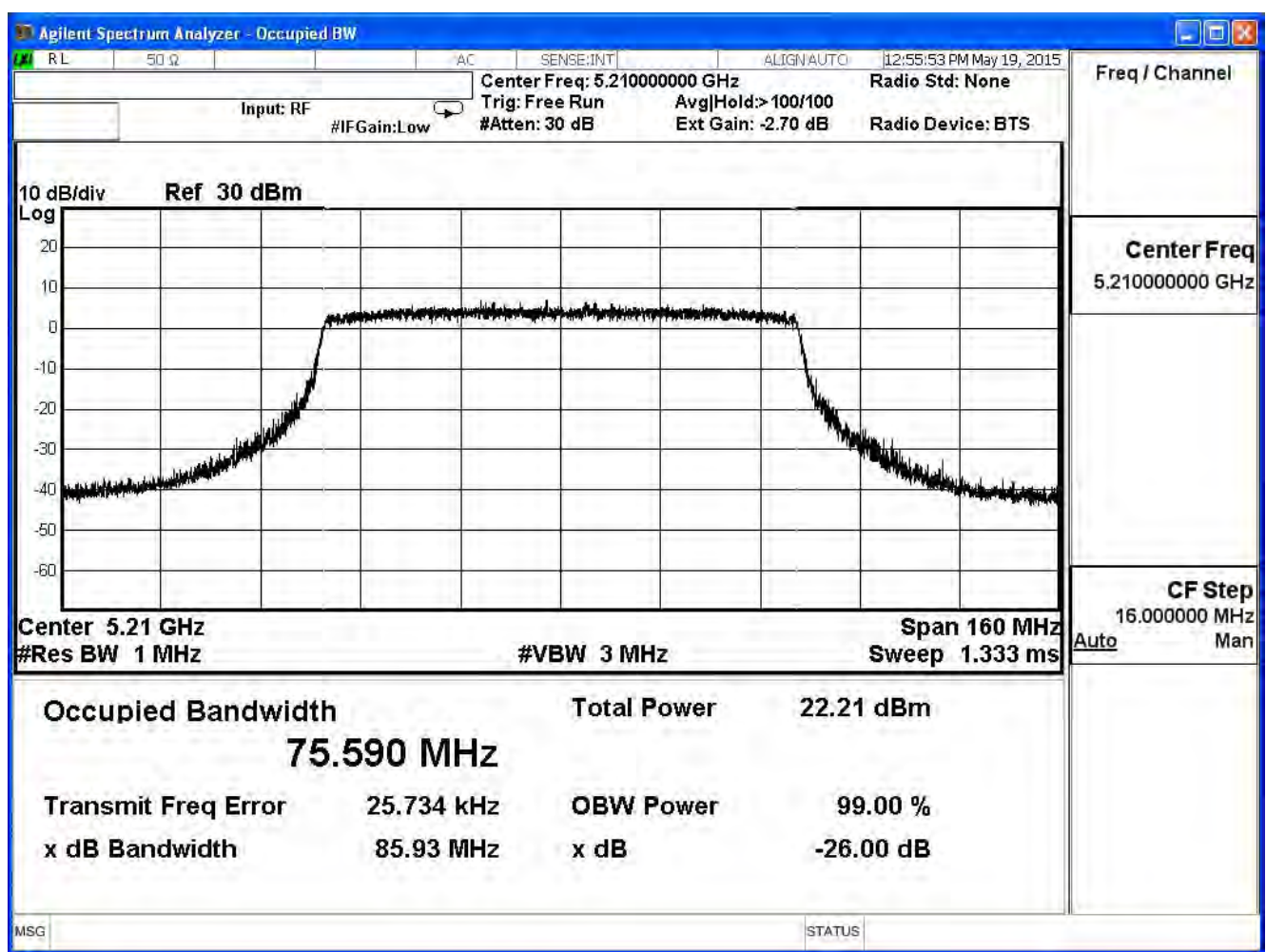


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	85.93	75.59	--

99% & 26dB Bandwidth – Channel 42

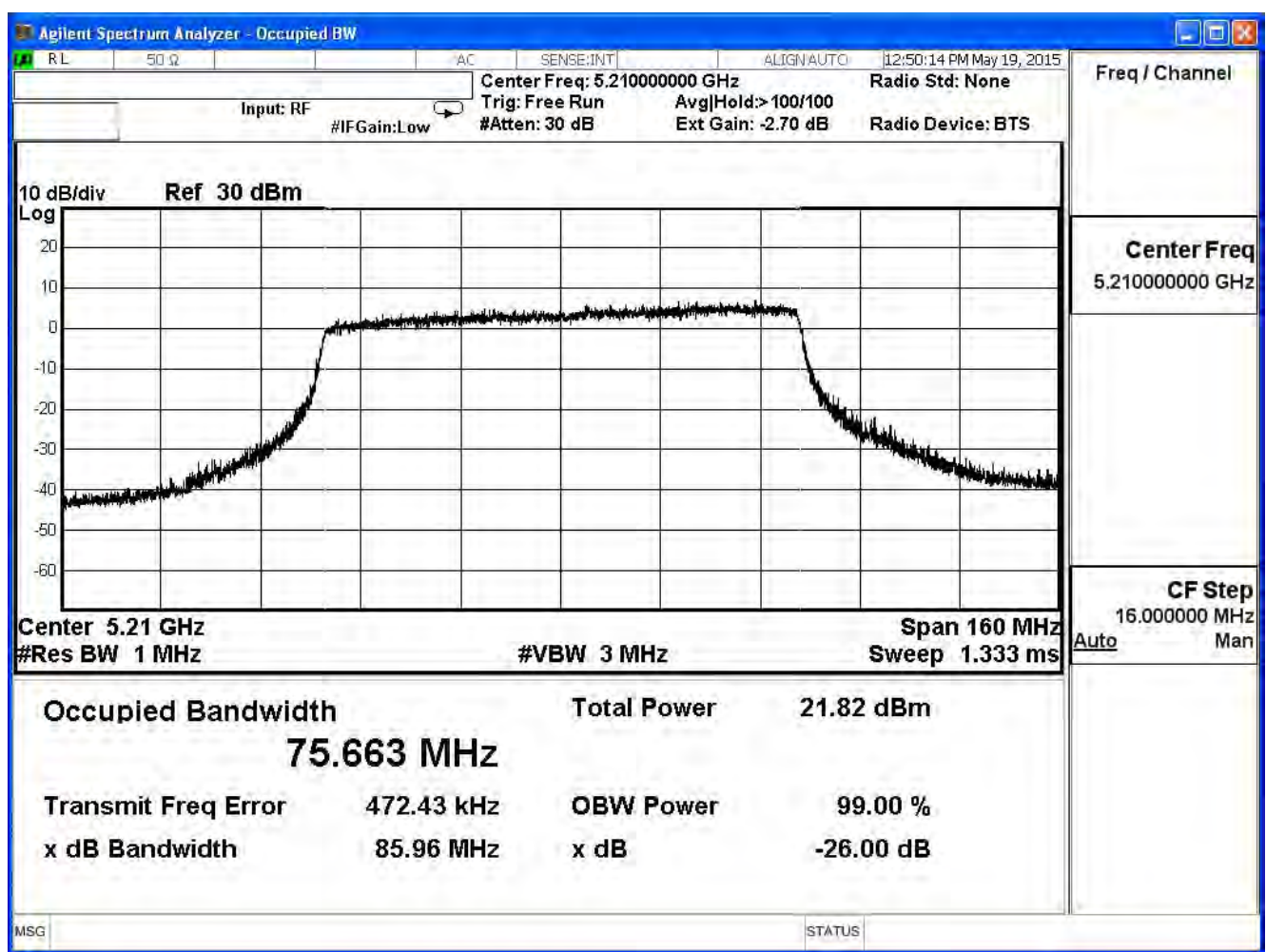


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	85.96	75.663	--

99% & 26dB Bandwidth – Channel 42

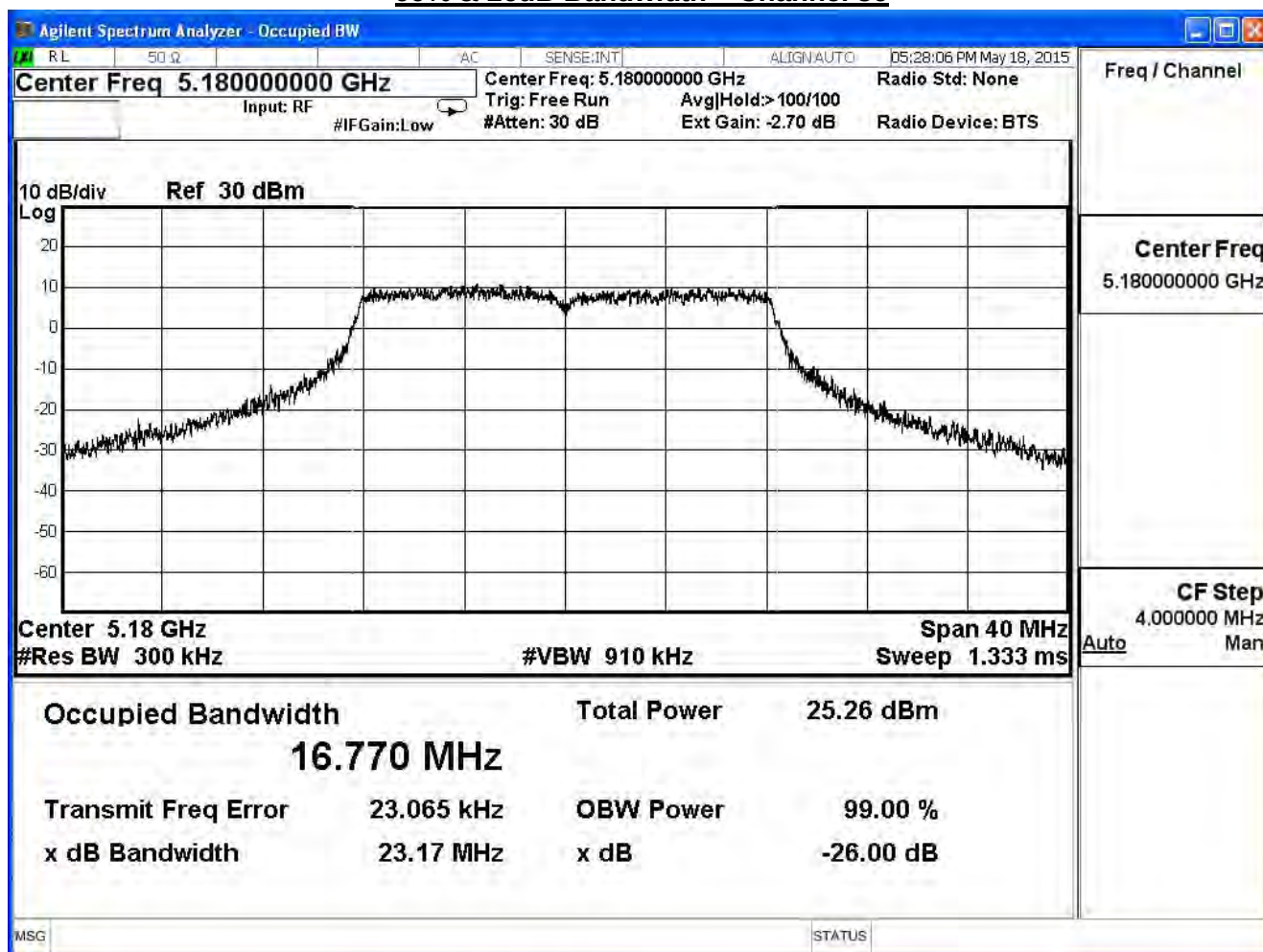


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

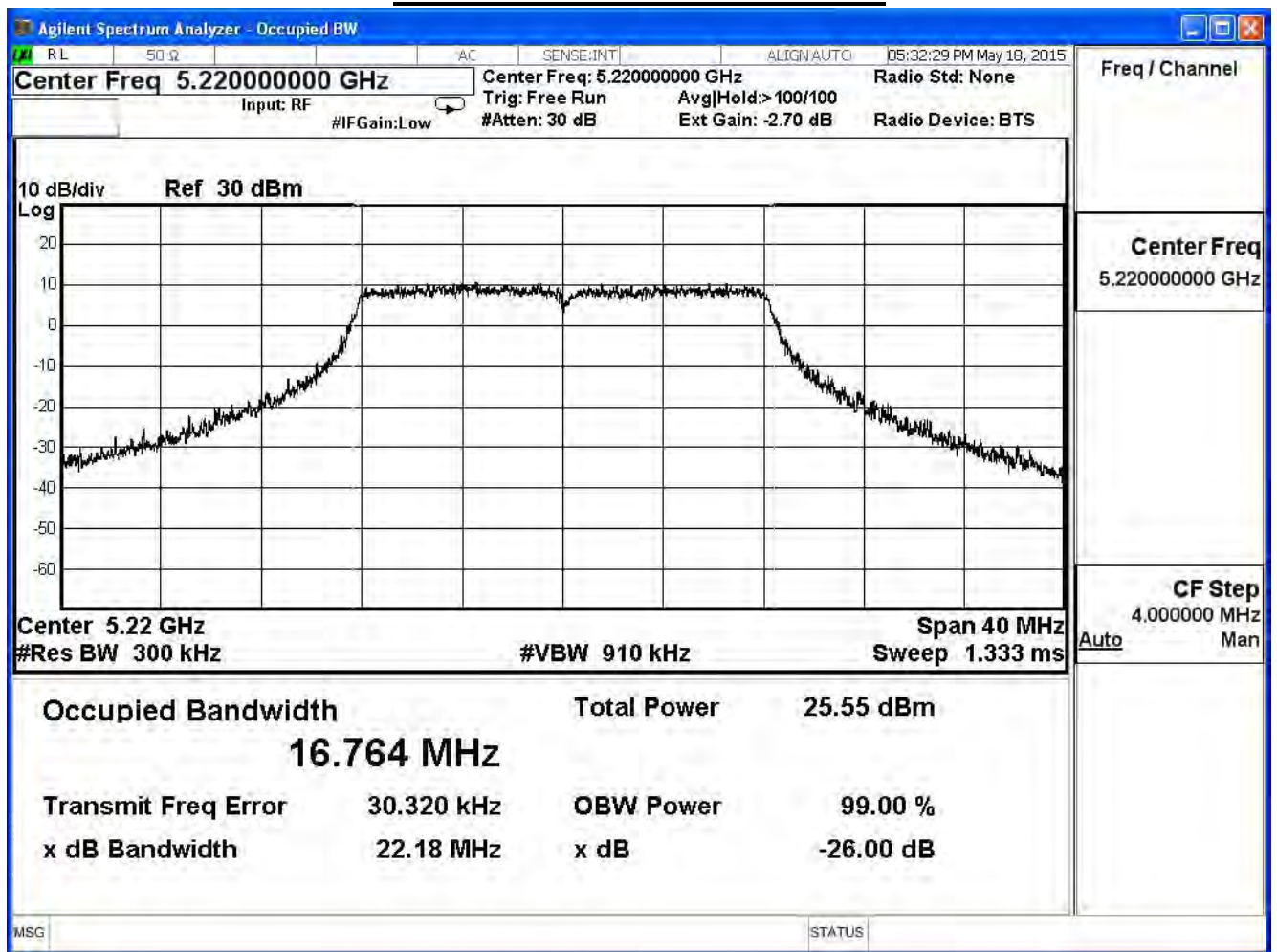
802.11a (ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	23.17	16.770	--
44	5220	22.18	16.764	--
48	5240	22.72	16.773	--

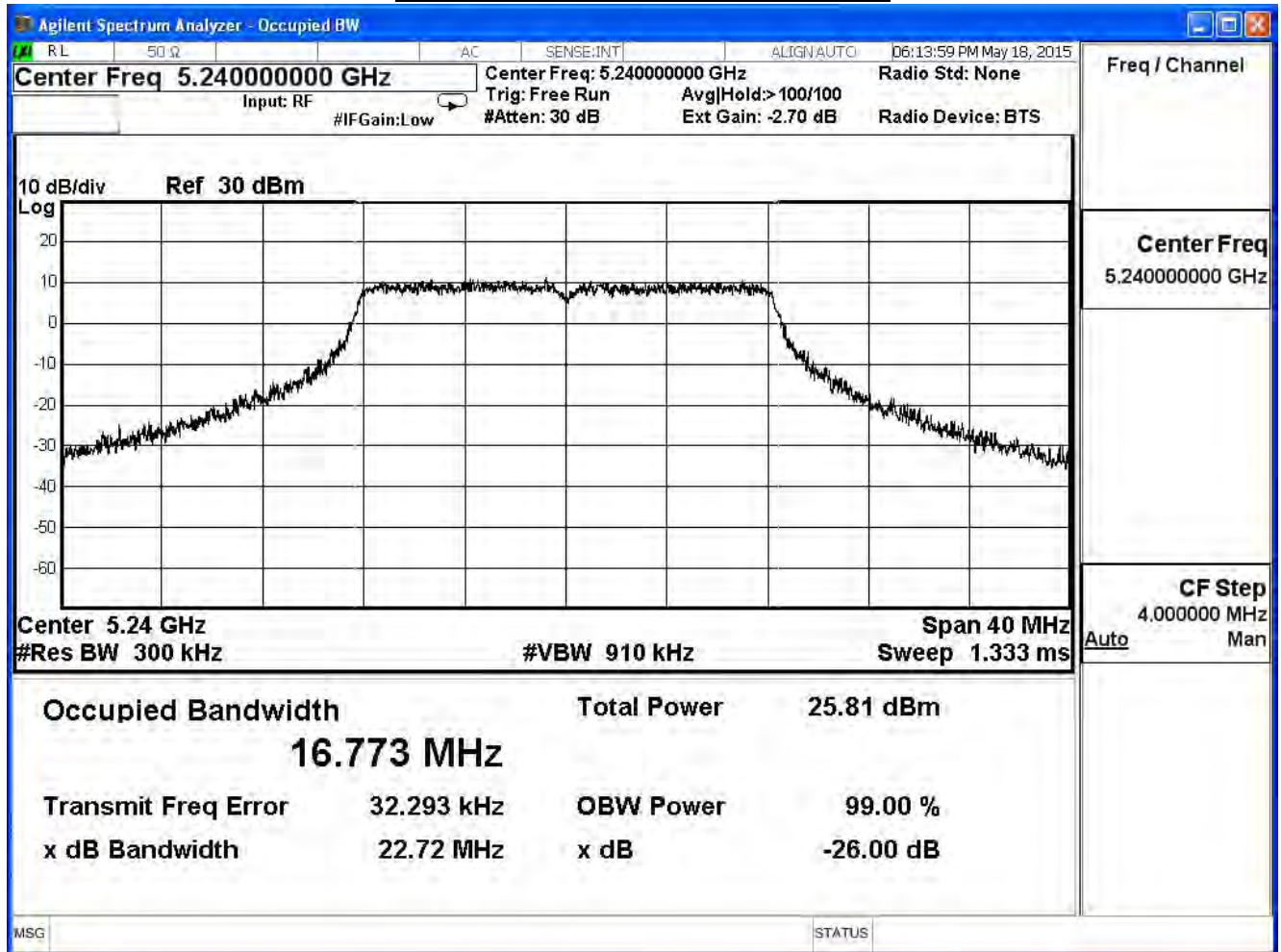
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

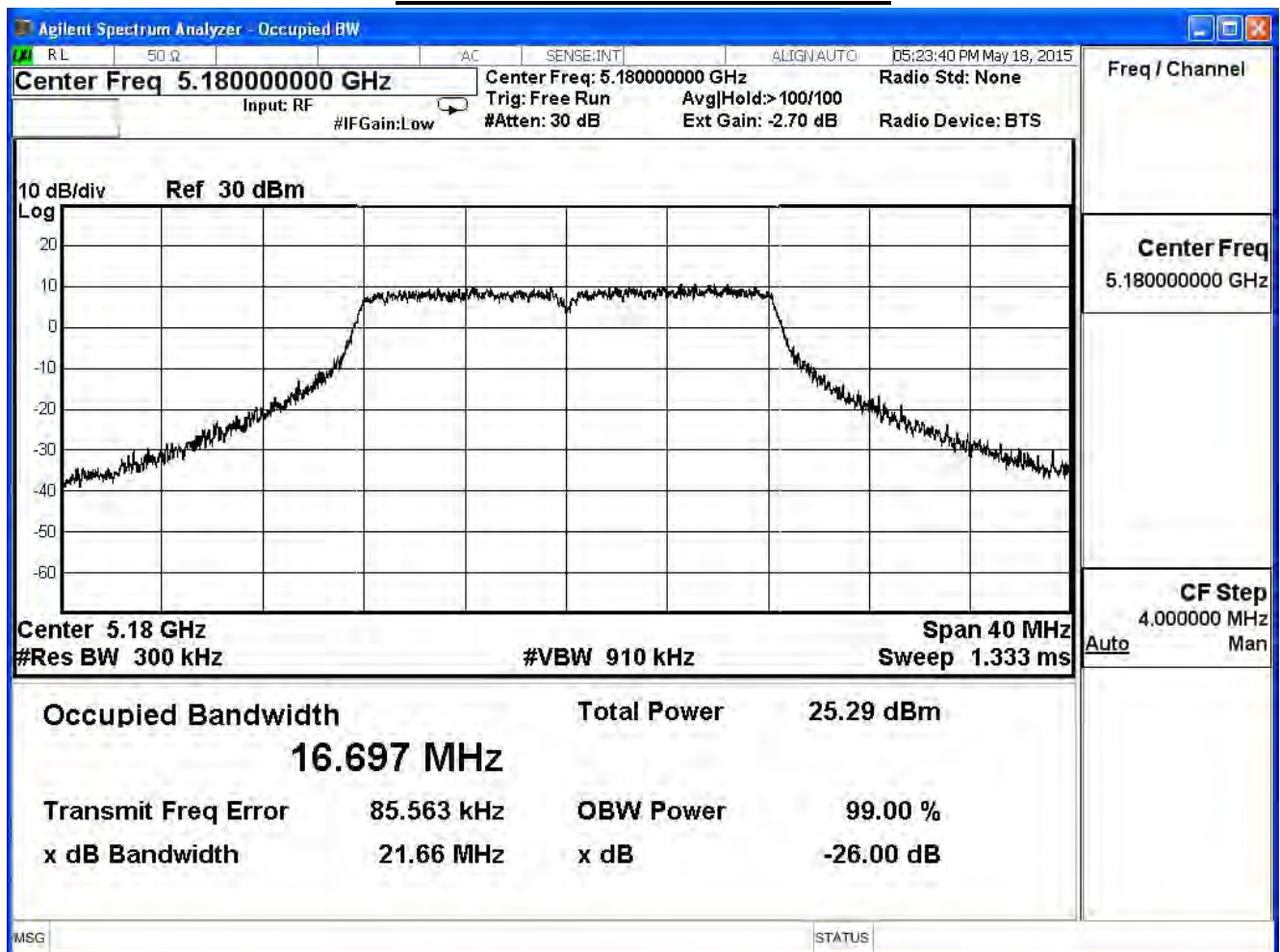


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

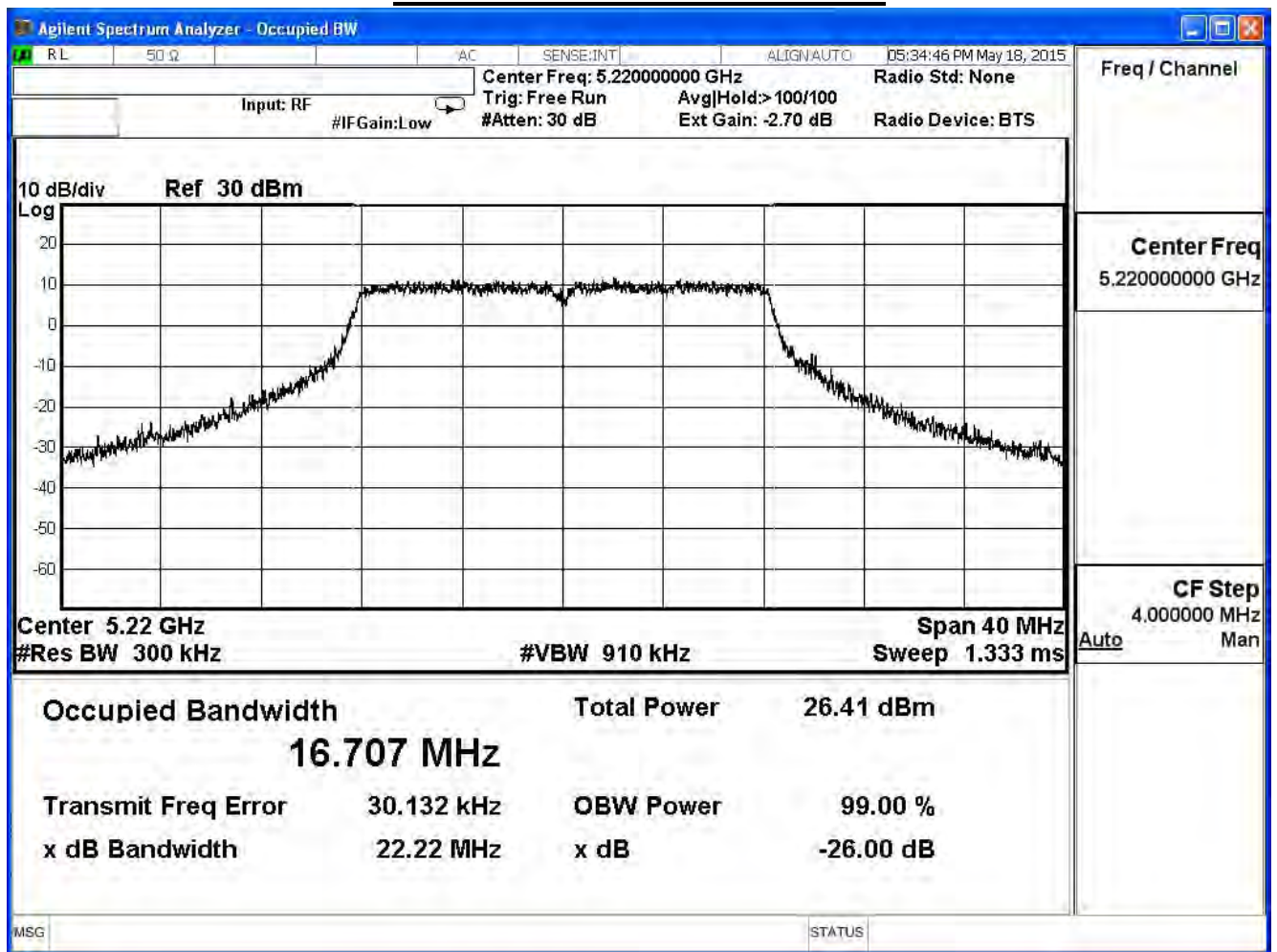
802.11a (ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	21.66	16.697	--
44	5220	22.22	16.707	--
48	5240	22.41	16.695	--

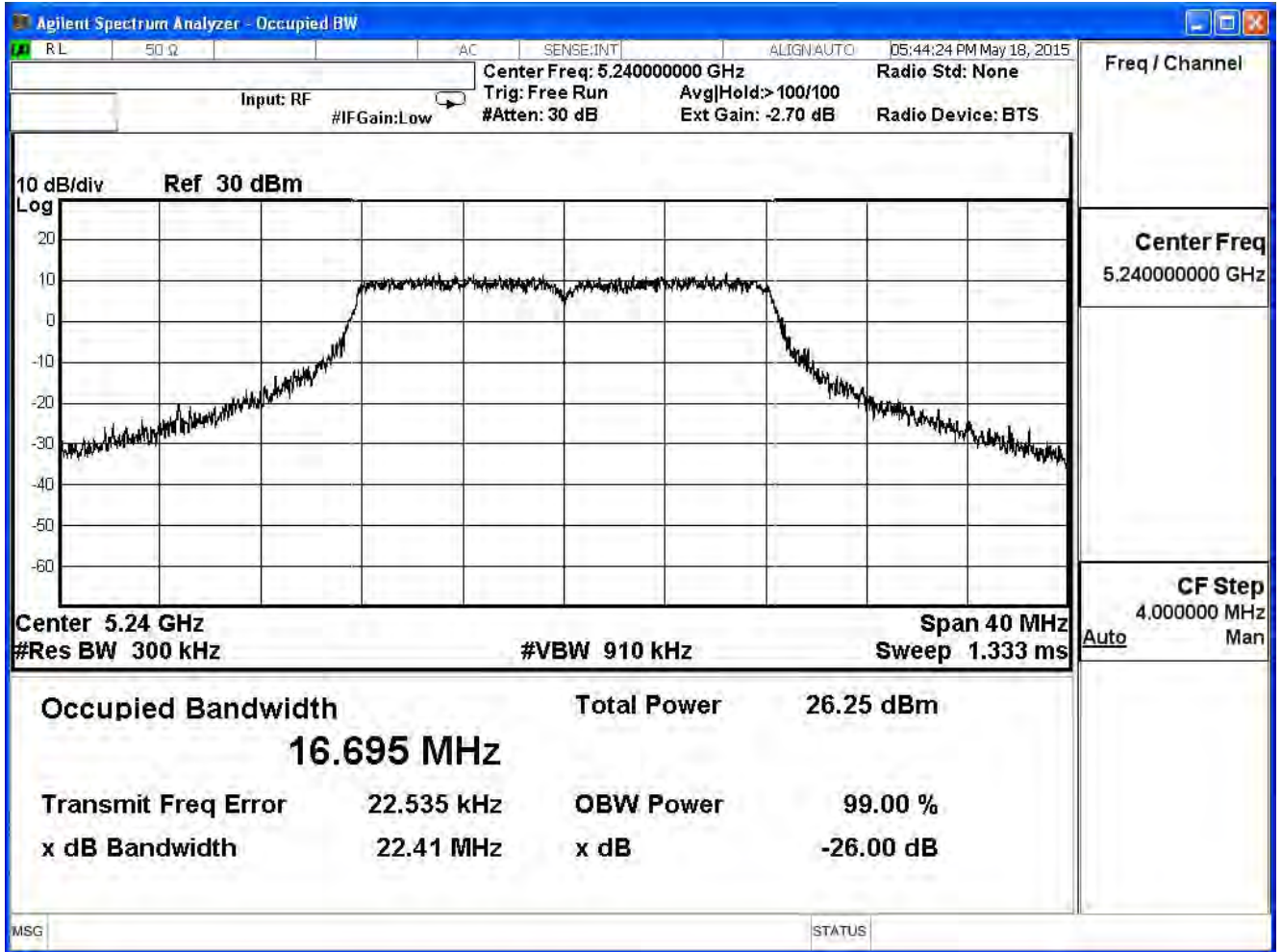
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

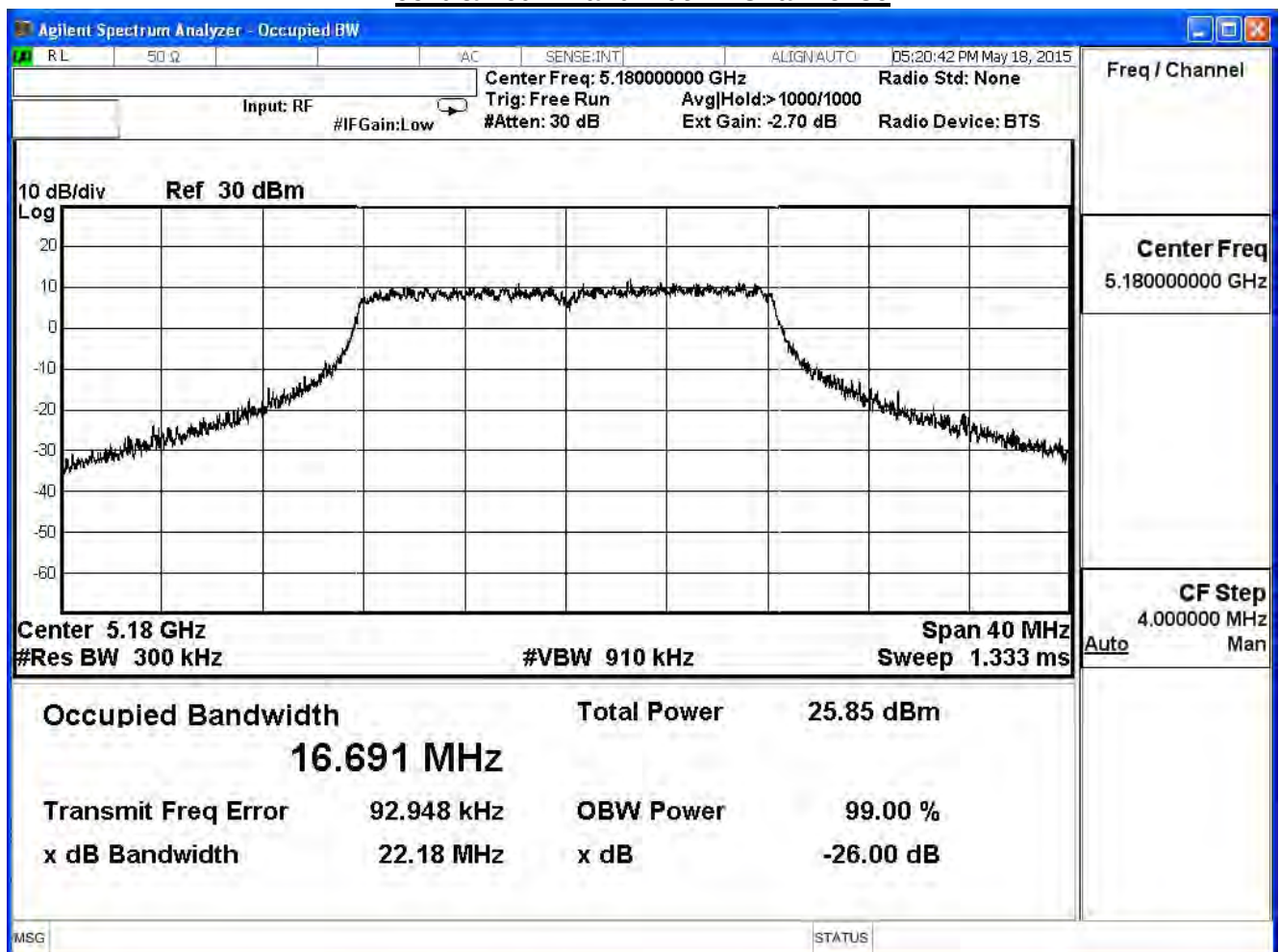


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

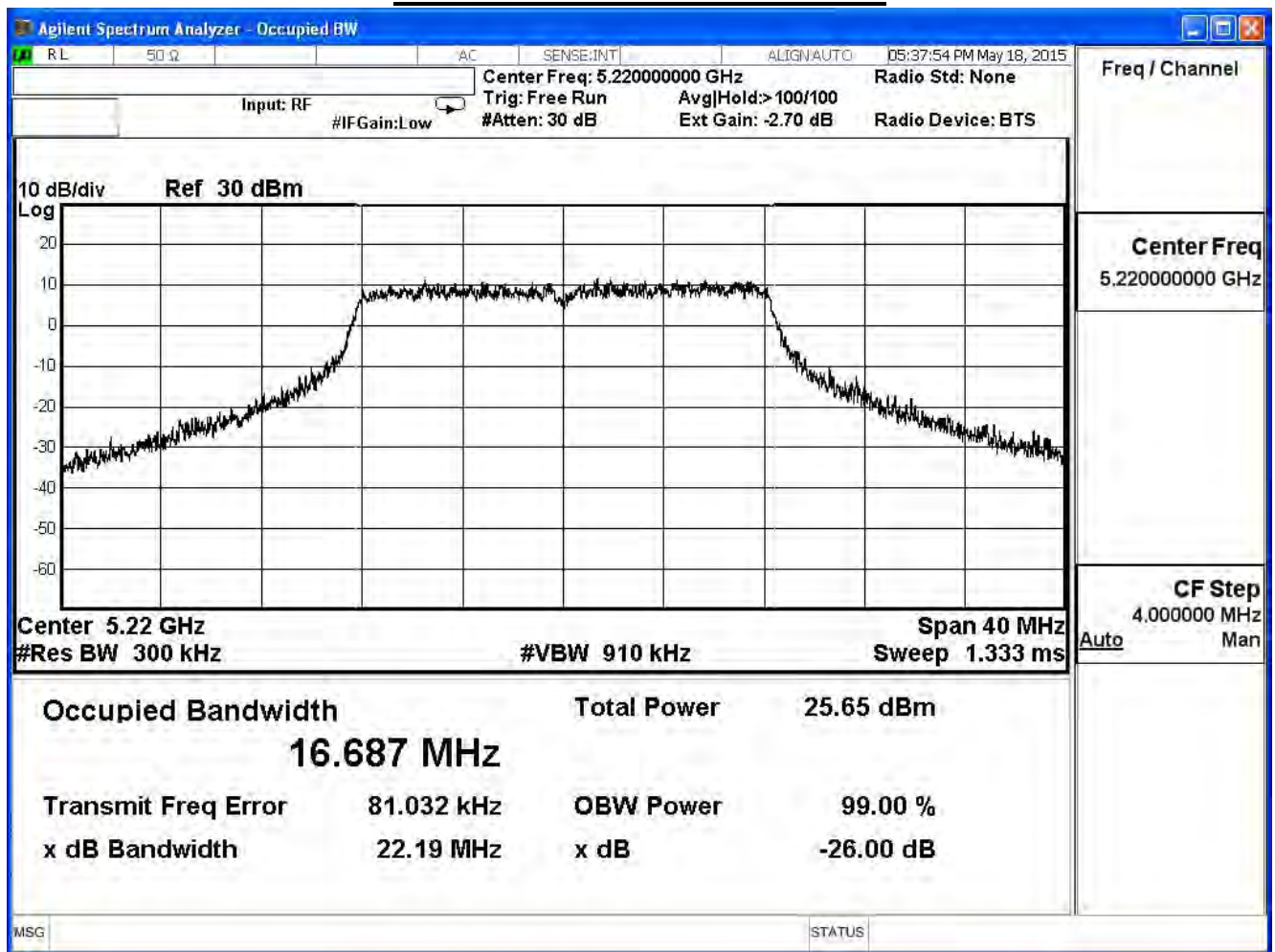
802.11a (ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	22.18	16.691	--
44	5220	22.19	16.687	--
48	5240	22.50	16.725	--

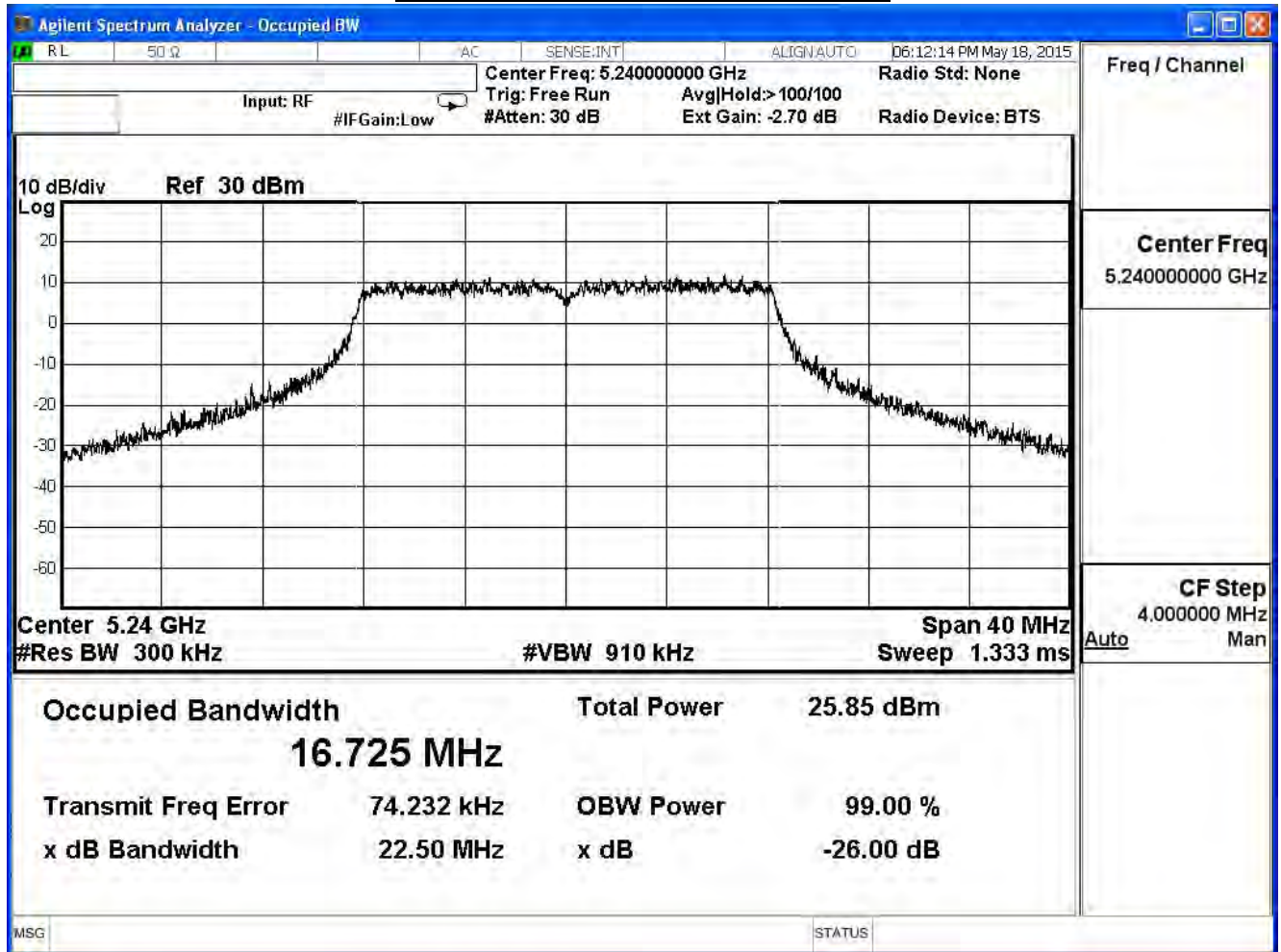
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

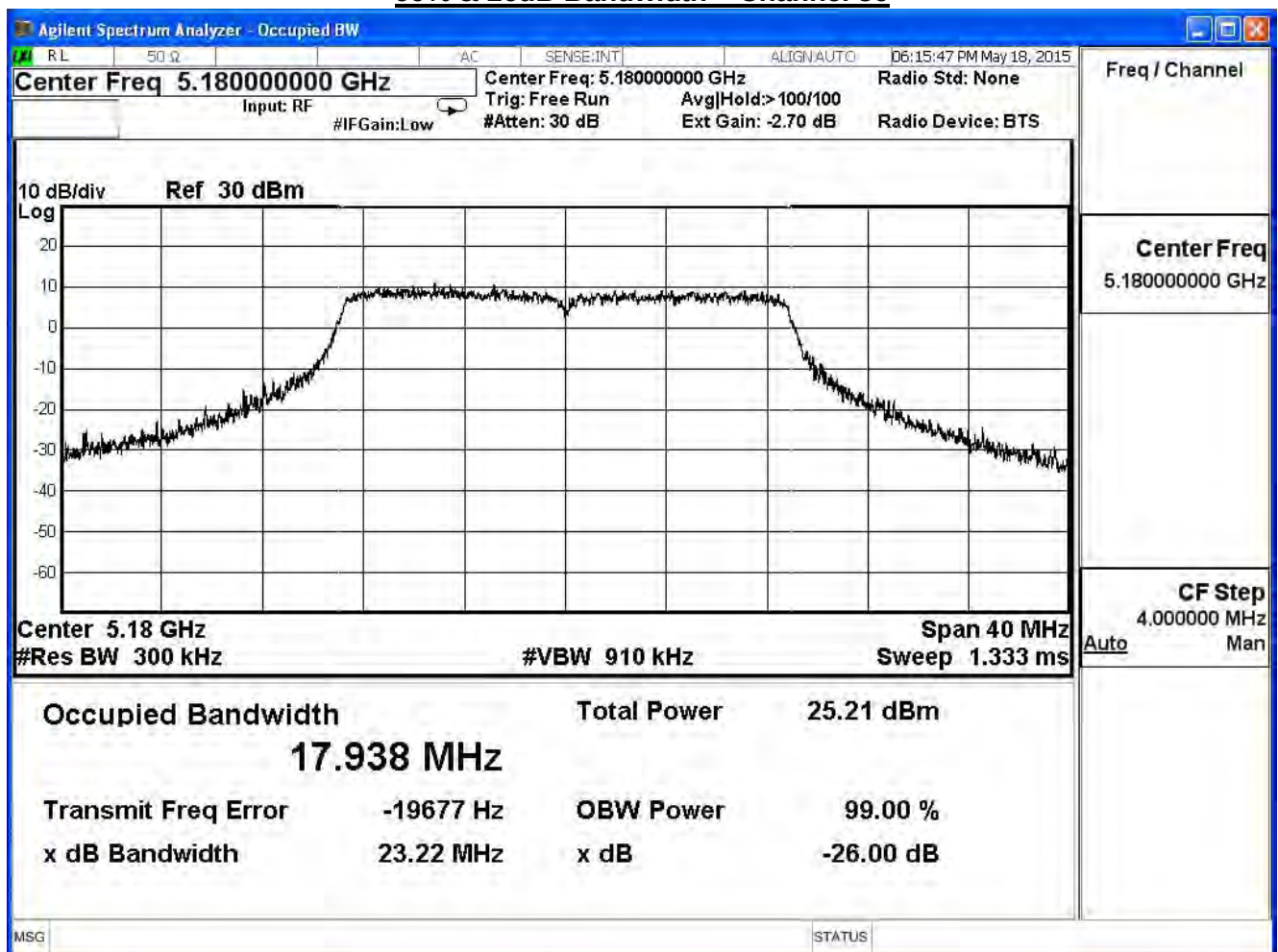


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

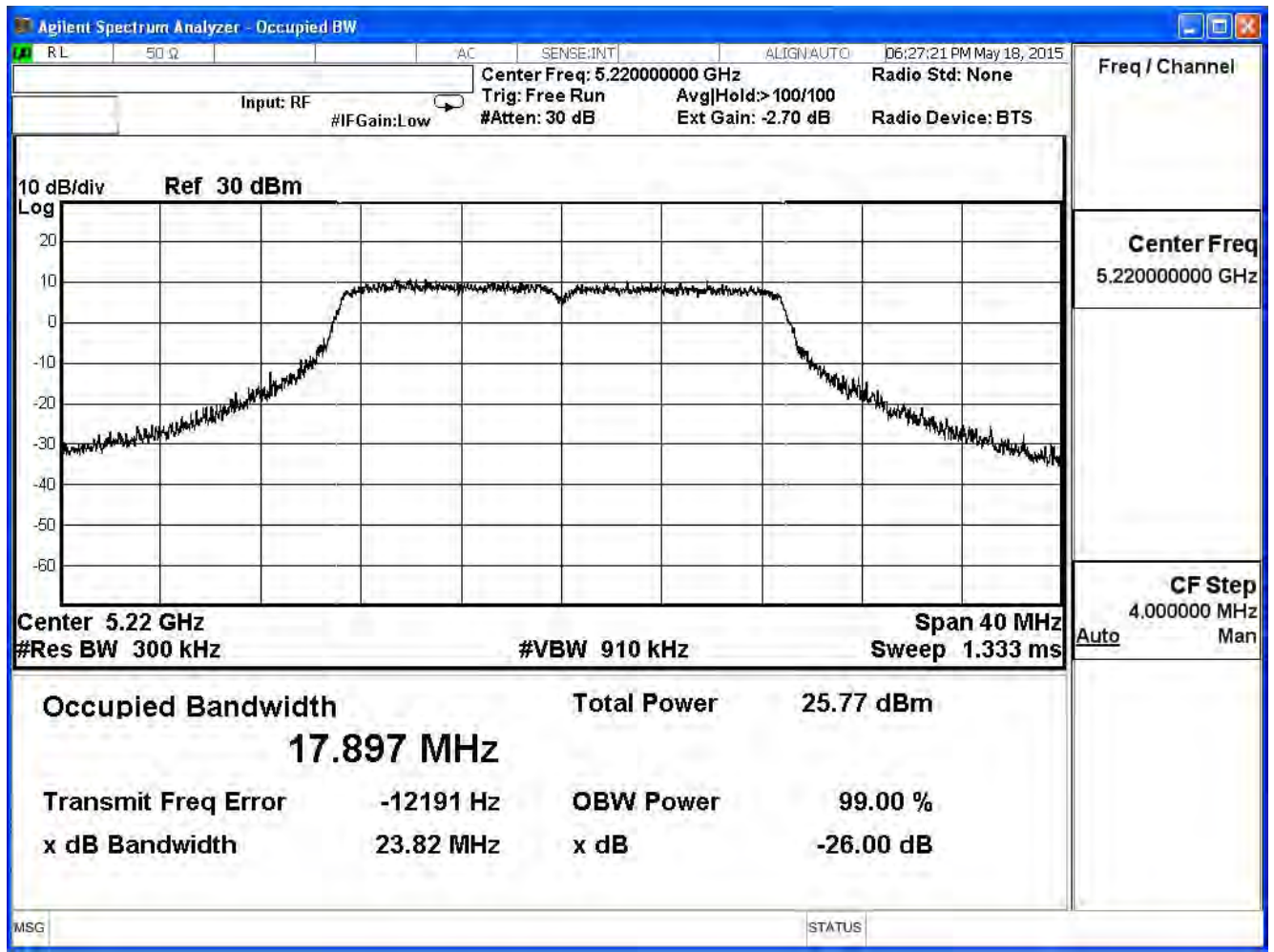
802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	23.22	17.398	--
44	5220	23.82	17.897	--
48	5240	24.72	17.912	--

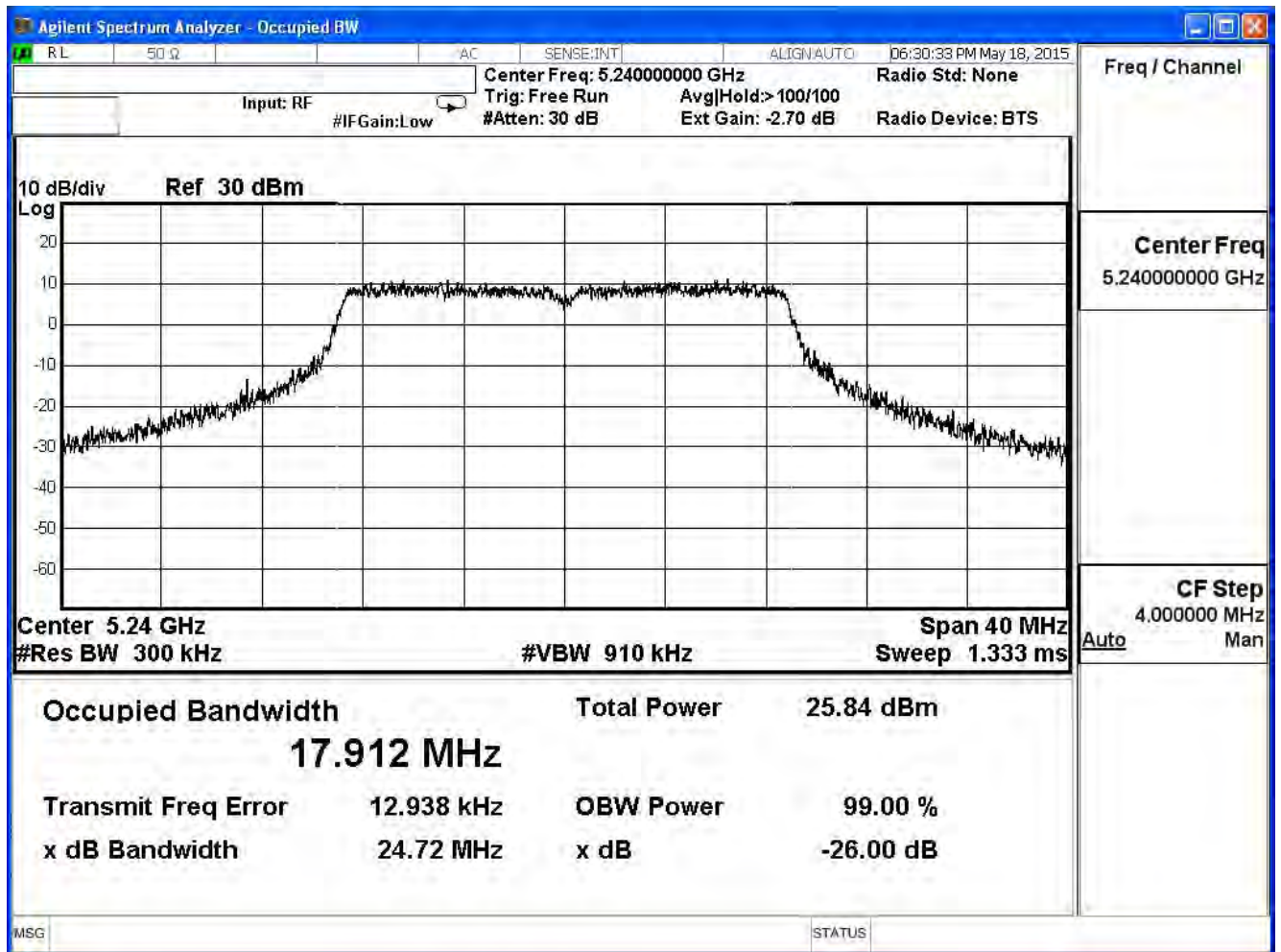
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

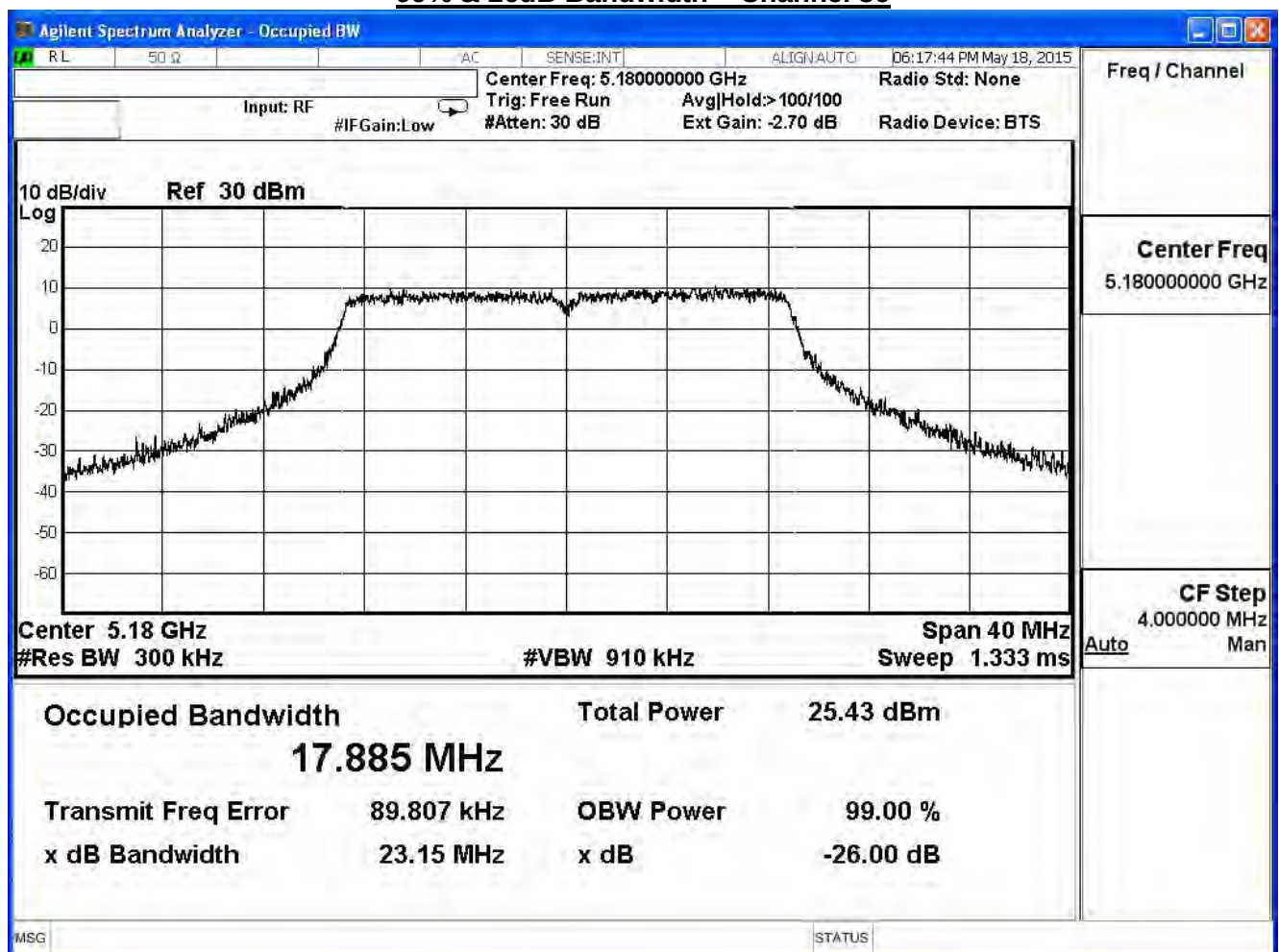


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

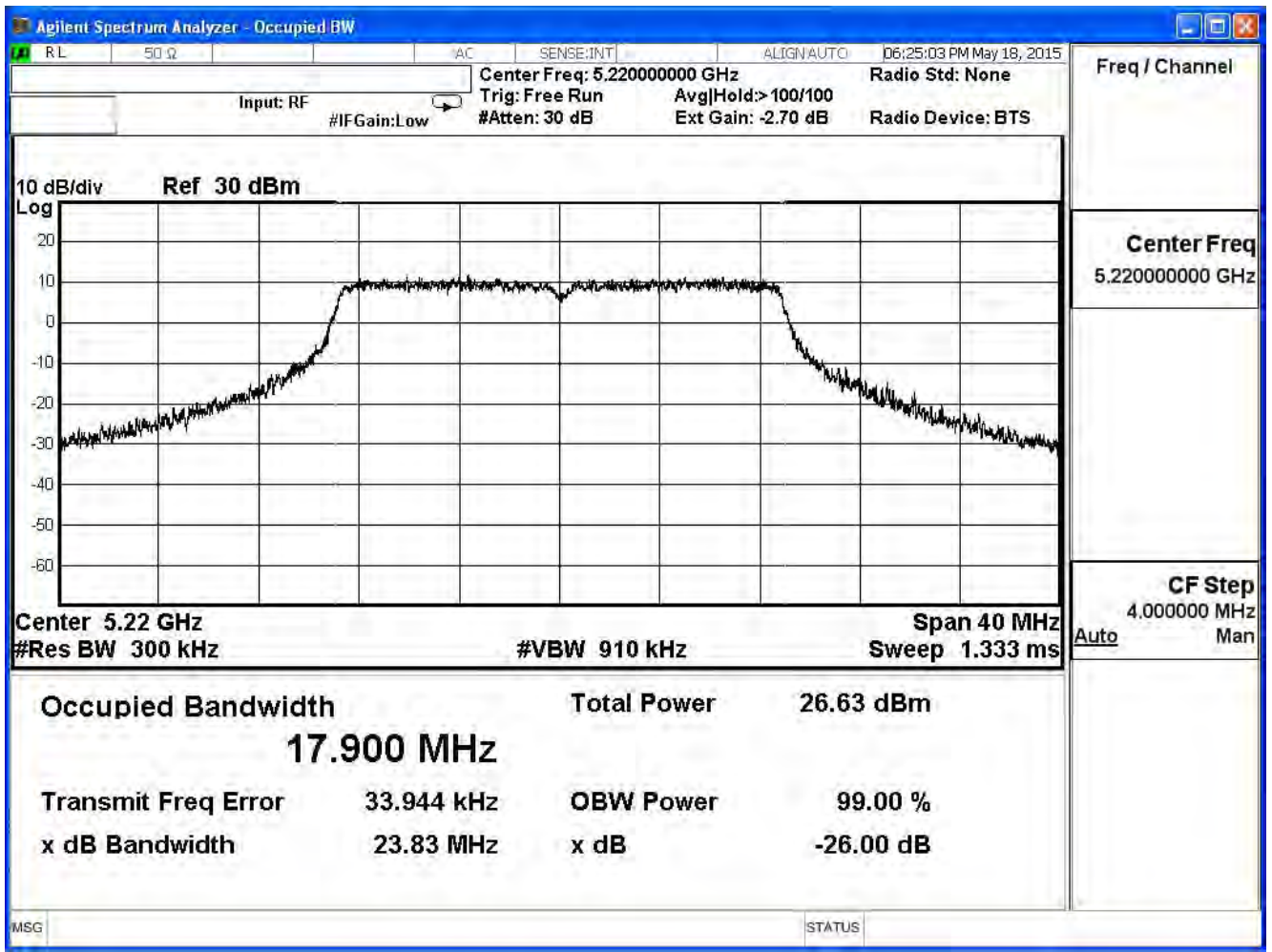
802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	23.15	17.885	--
44	5220	23.83	17.900	--
48	5240	24.00	17.899	--

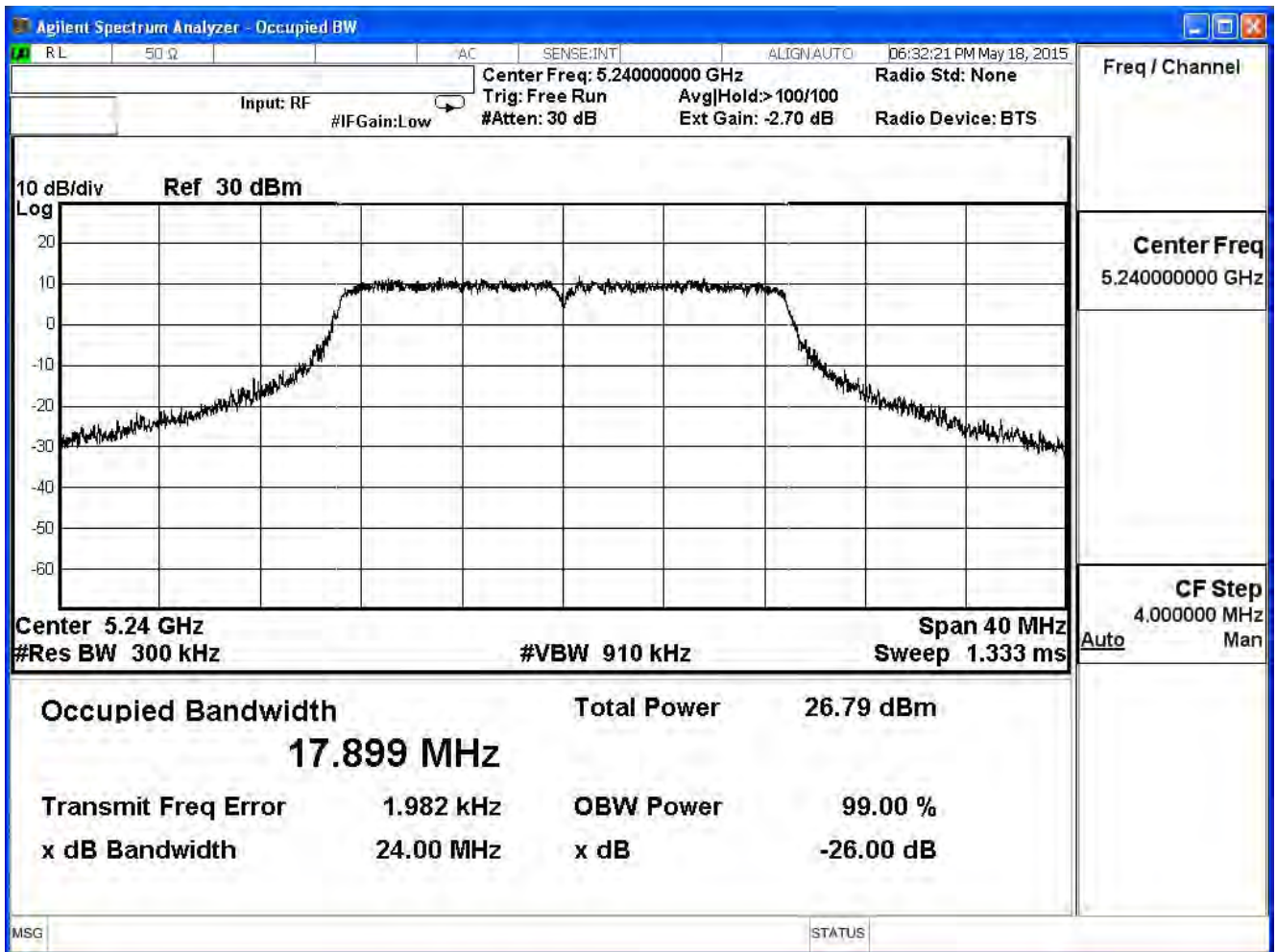
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

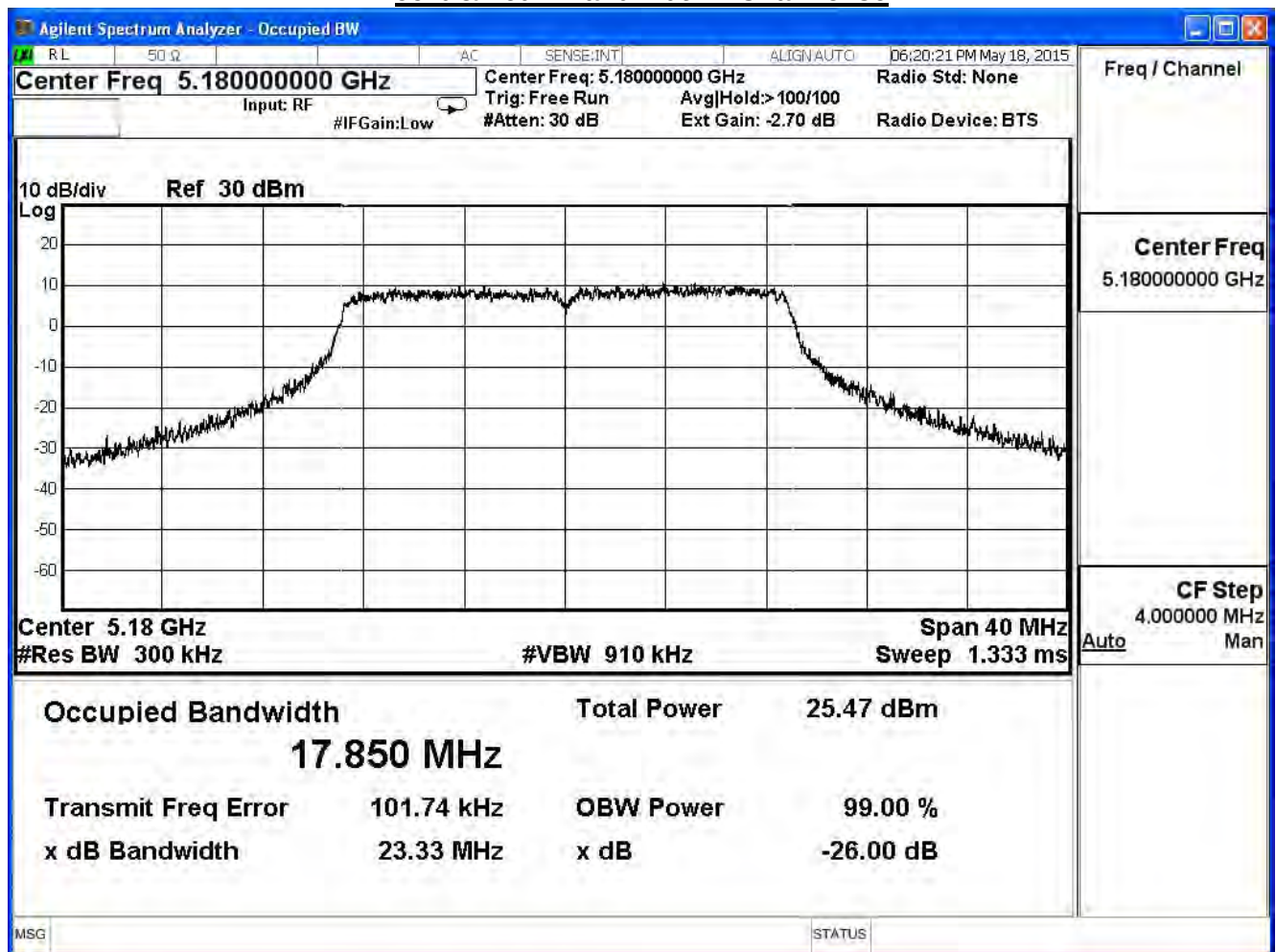


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

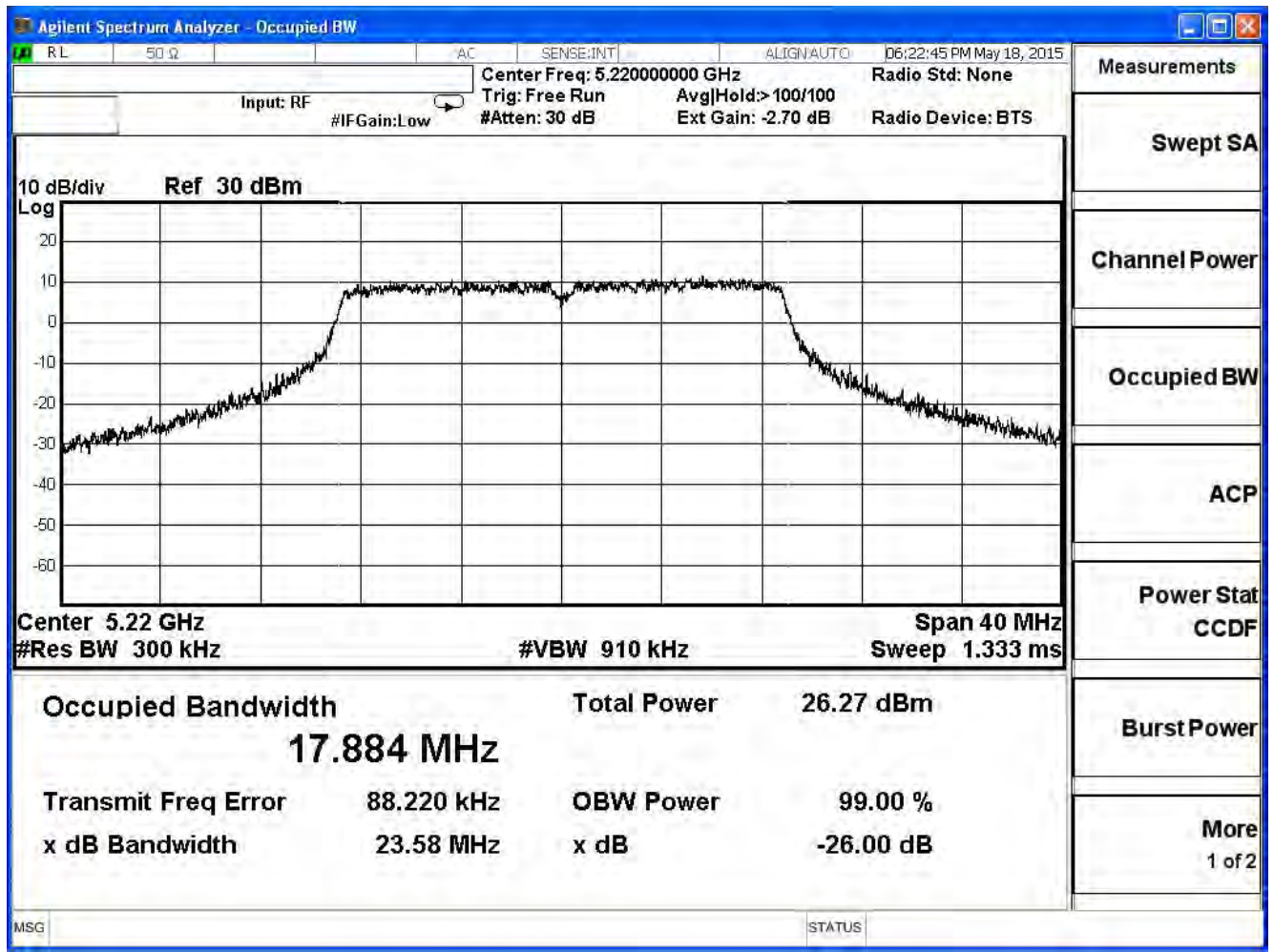
802.11n_20M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
36	5180	23.33	17.850	--
44	5220	23.58	17.884	--
48	5240	24.09	17.891	--

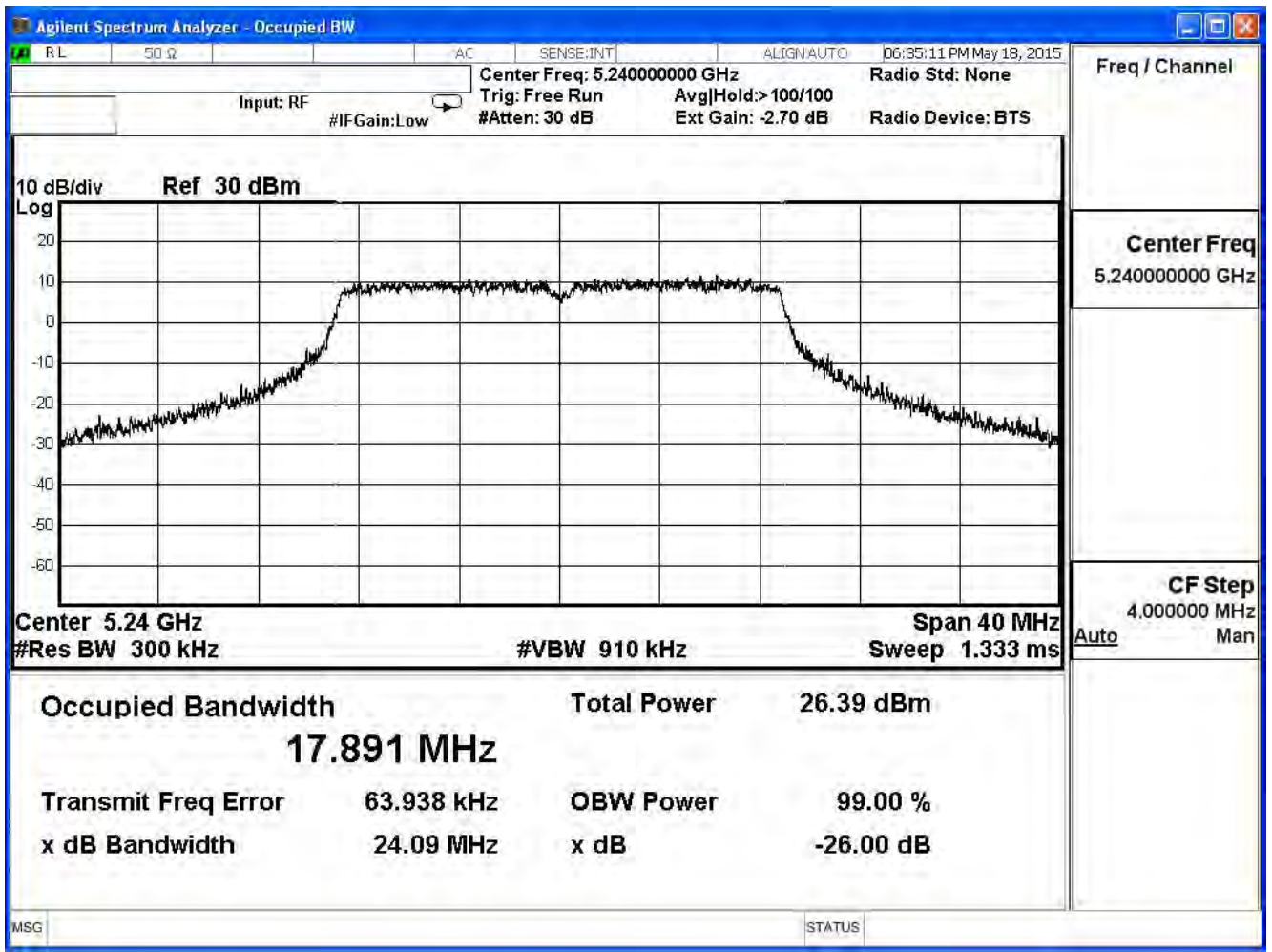
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

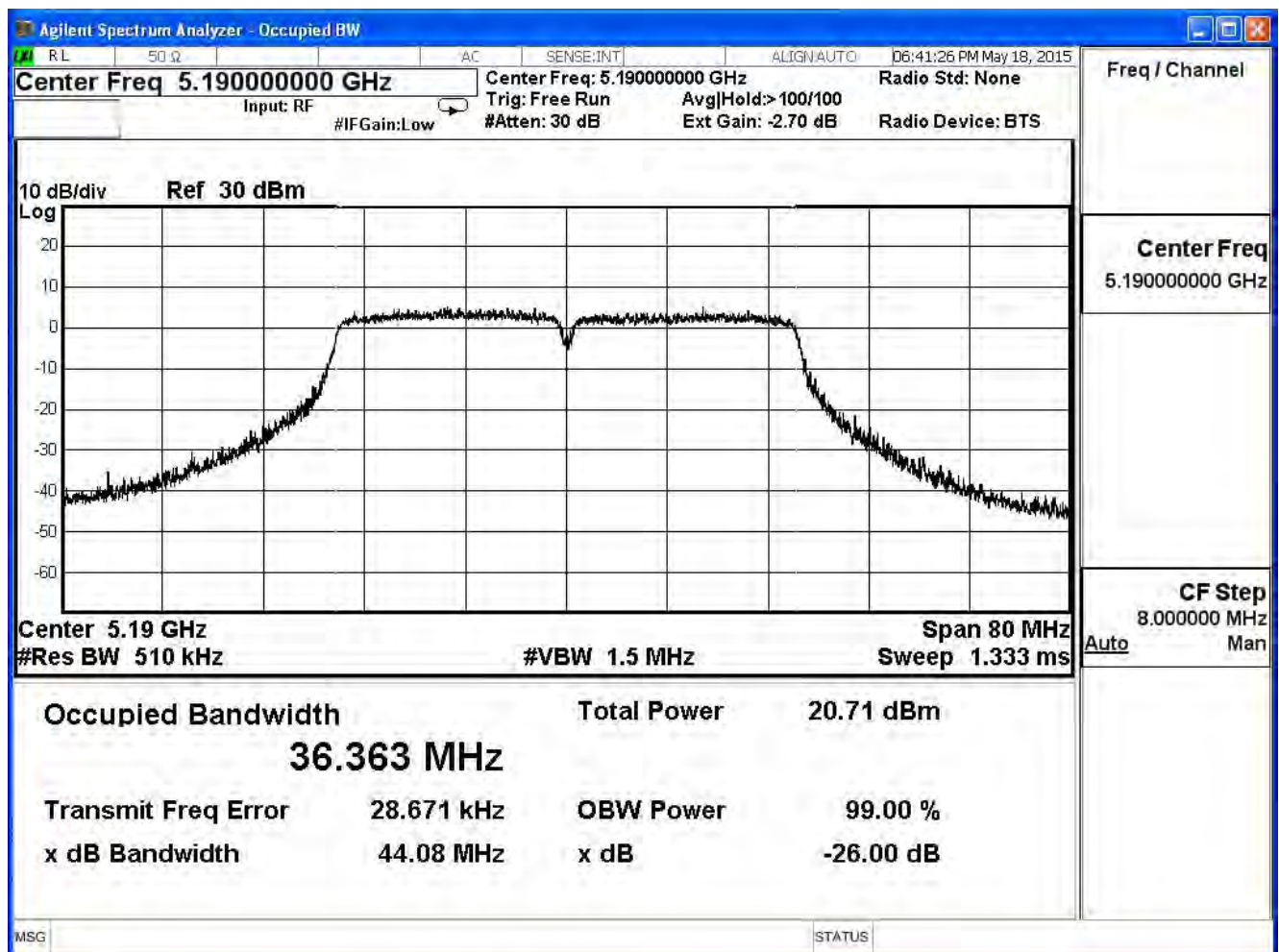


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

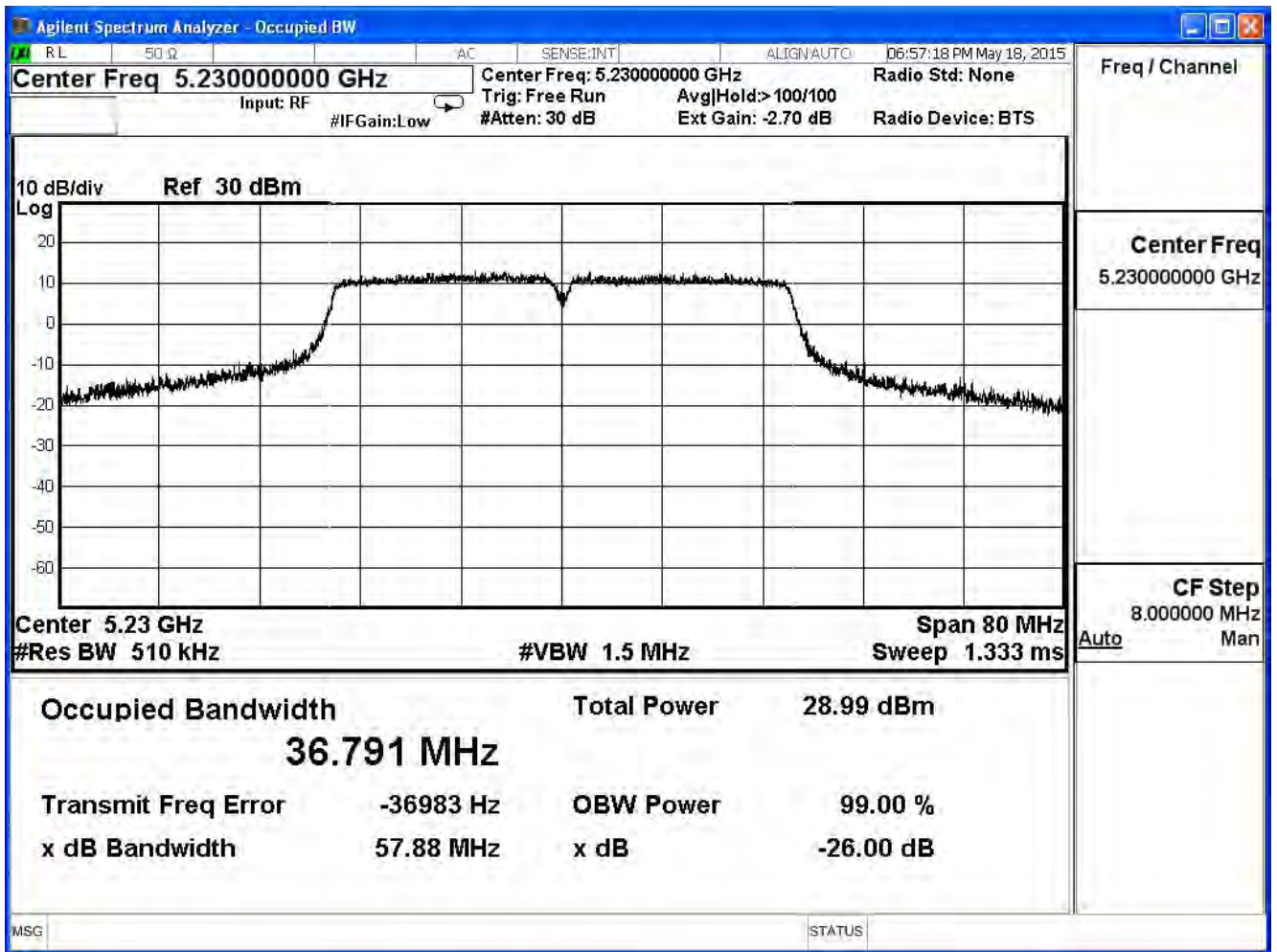
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	44.08	36.363	--
46	5230	57.88	36.791	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

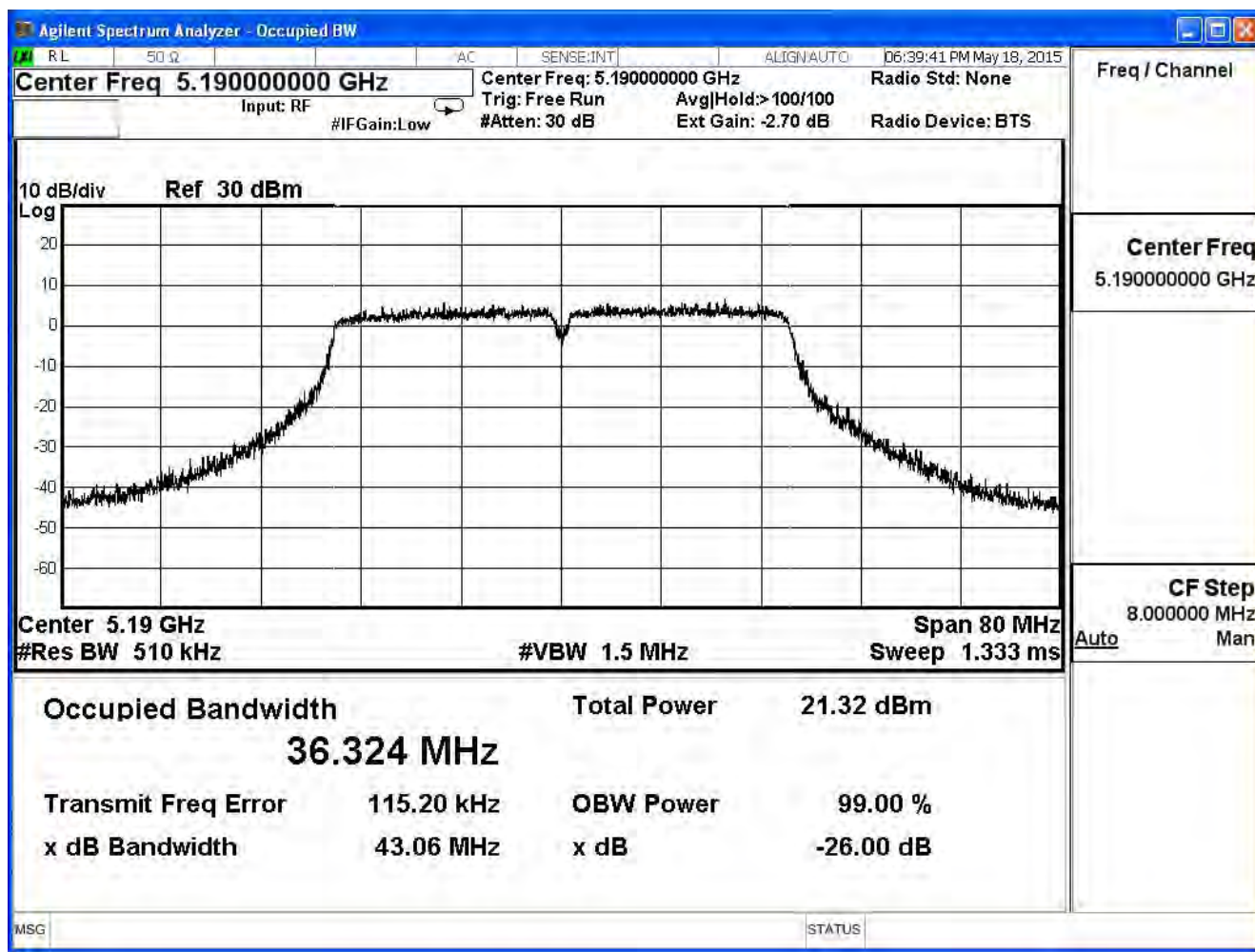


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

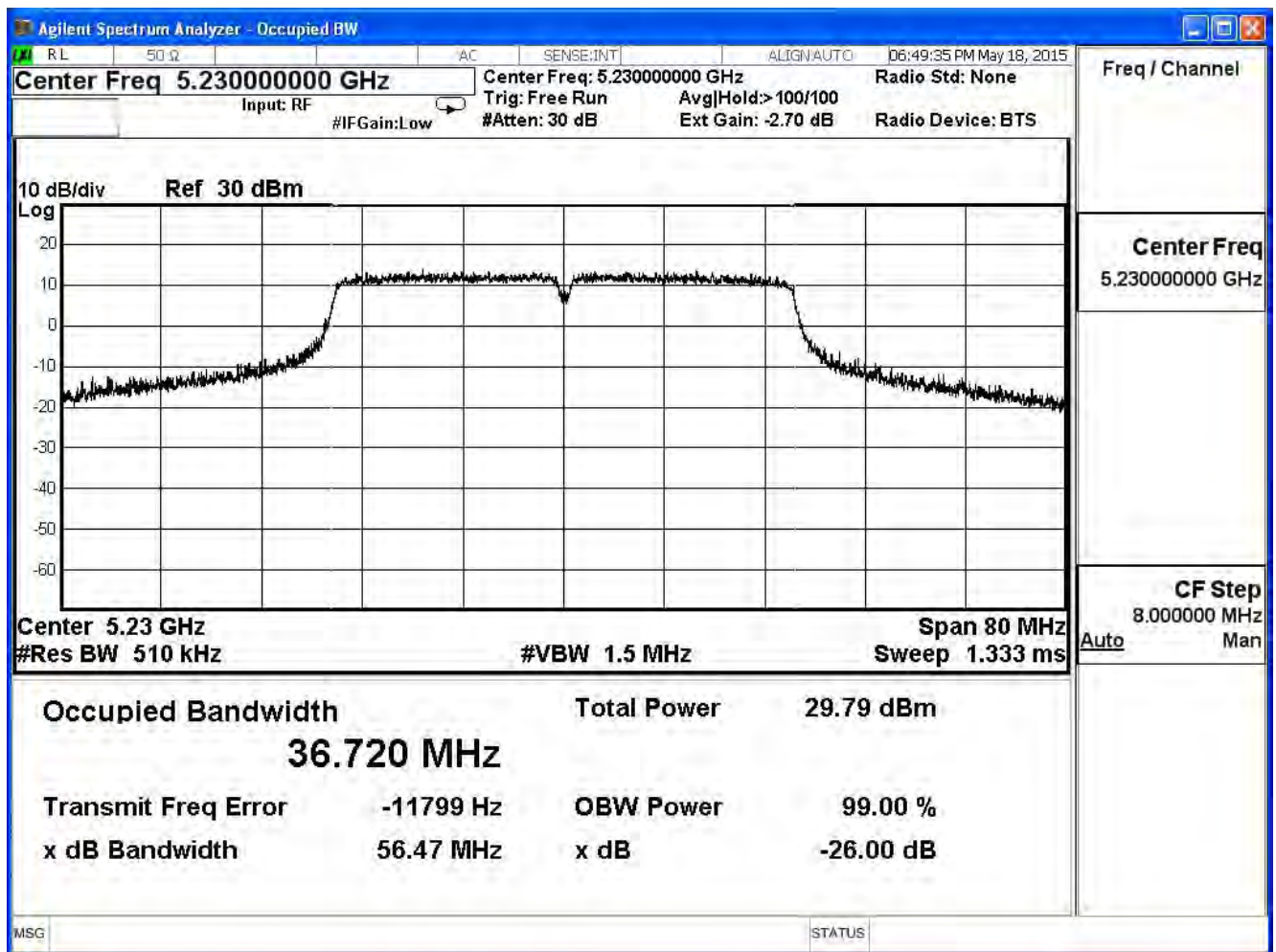
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	43.06	36.324	--
46	5230	56.47	36.720	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

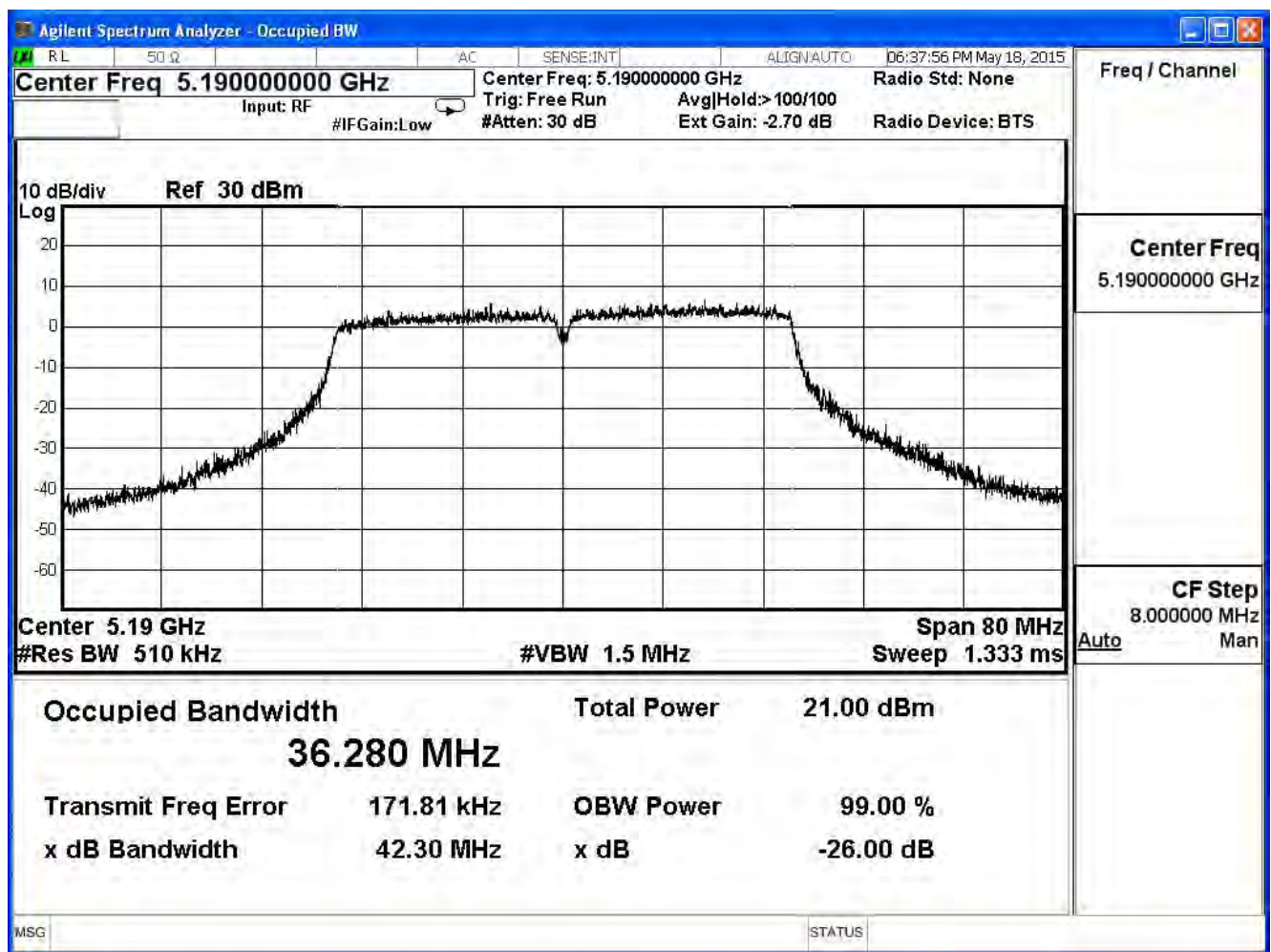


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

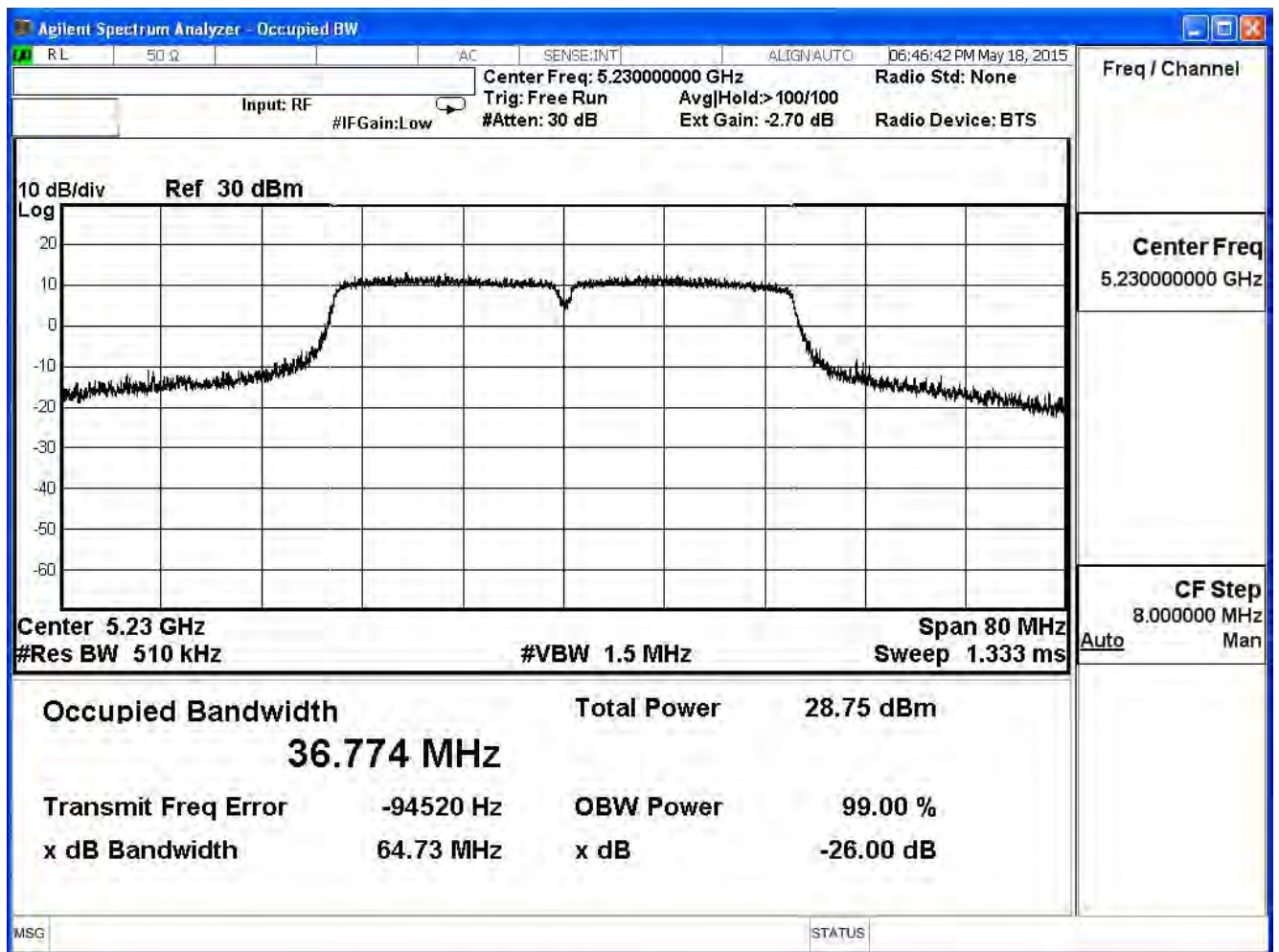
802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
38	5190	42.30	36.280	--
46	5230	64.73	36.774	--

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

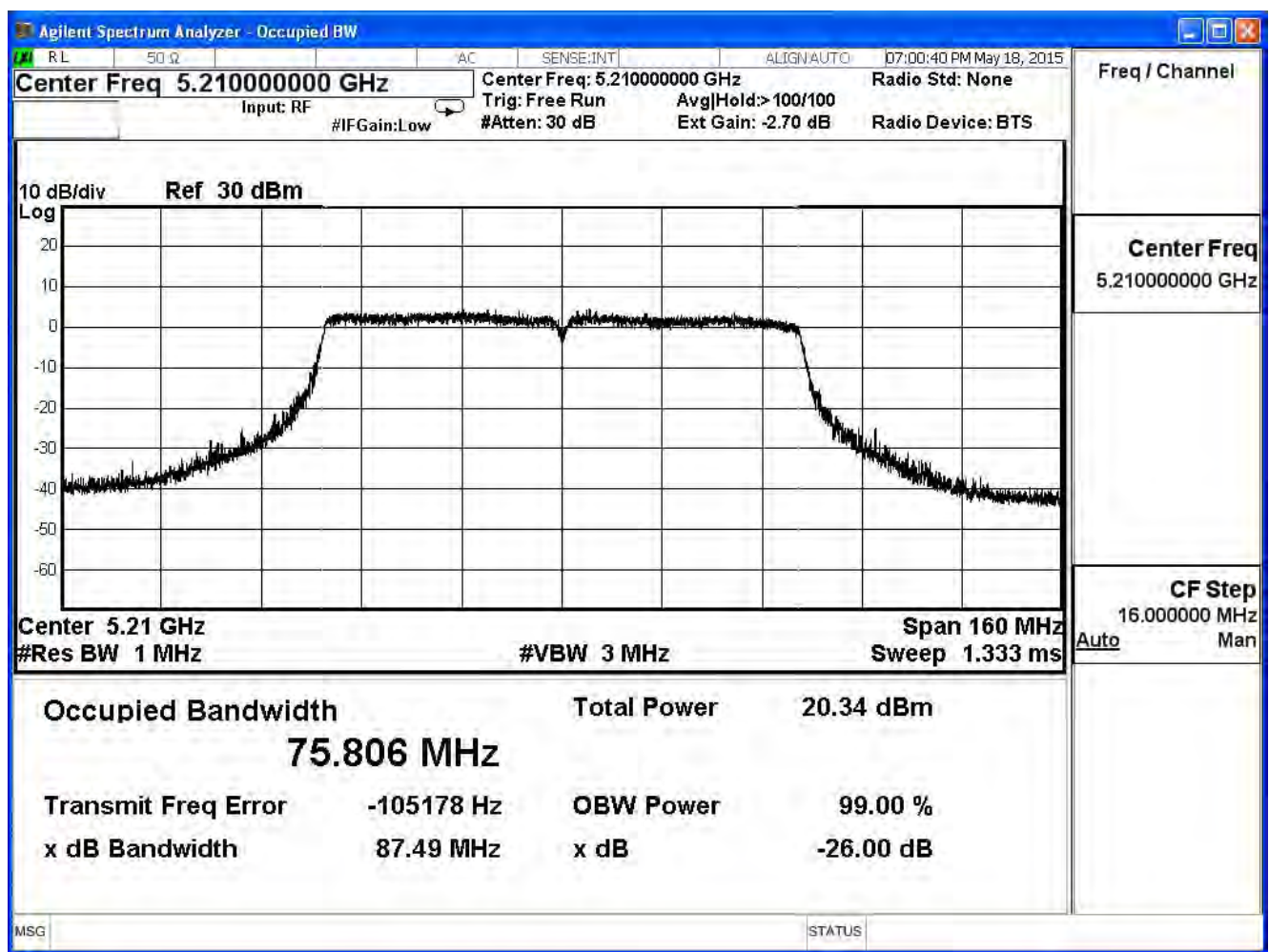


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	87.49	75.806	--

99% & 26dB Bandwidth – Channel 42

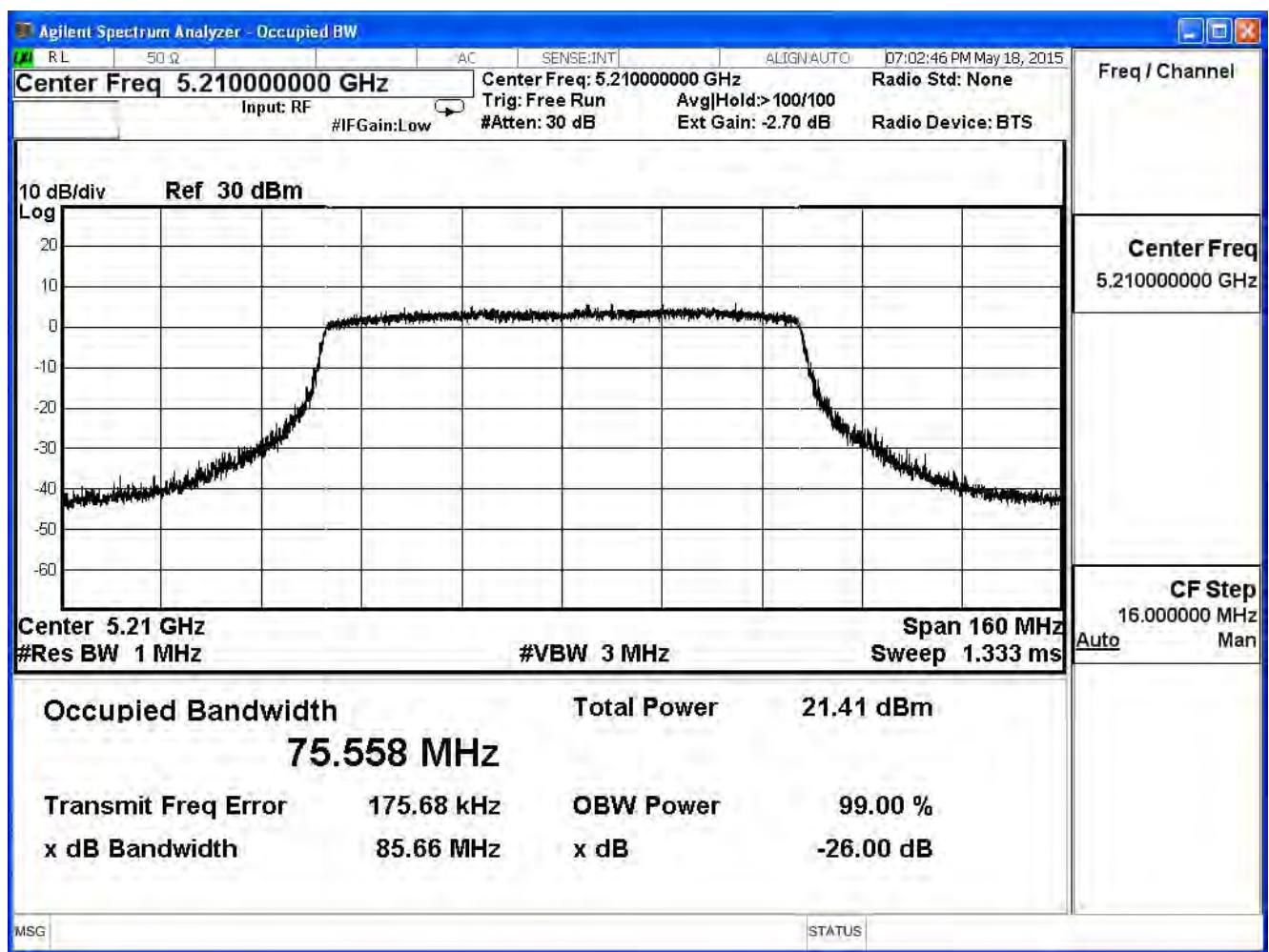


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	85.66	75.558	--

99% & 26dB Bandwidth – Channel 42

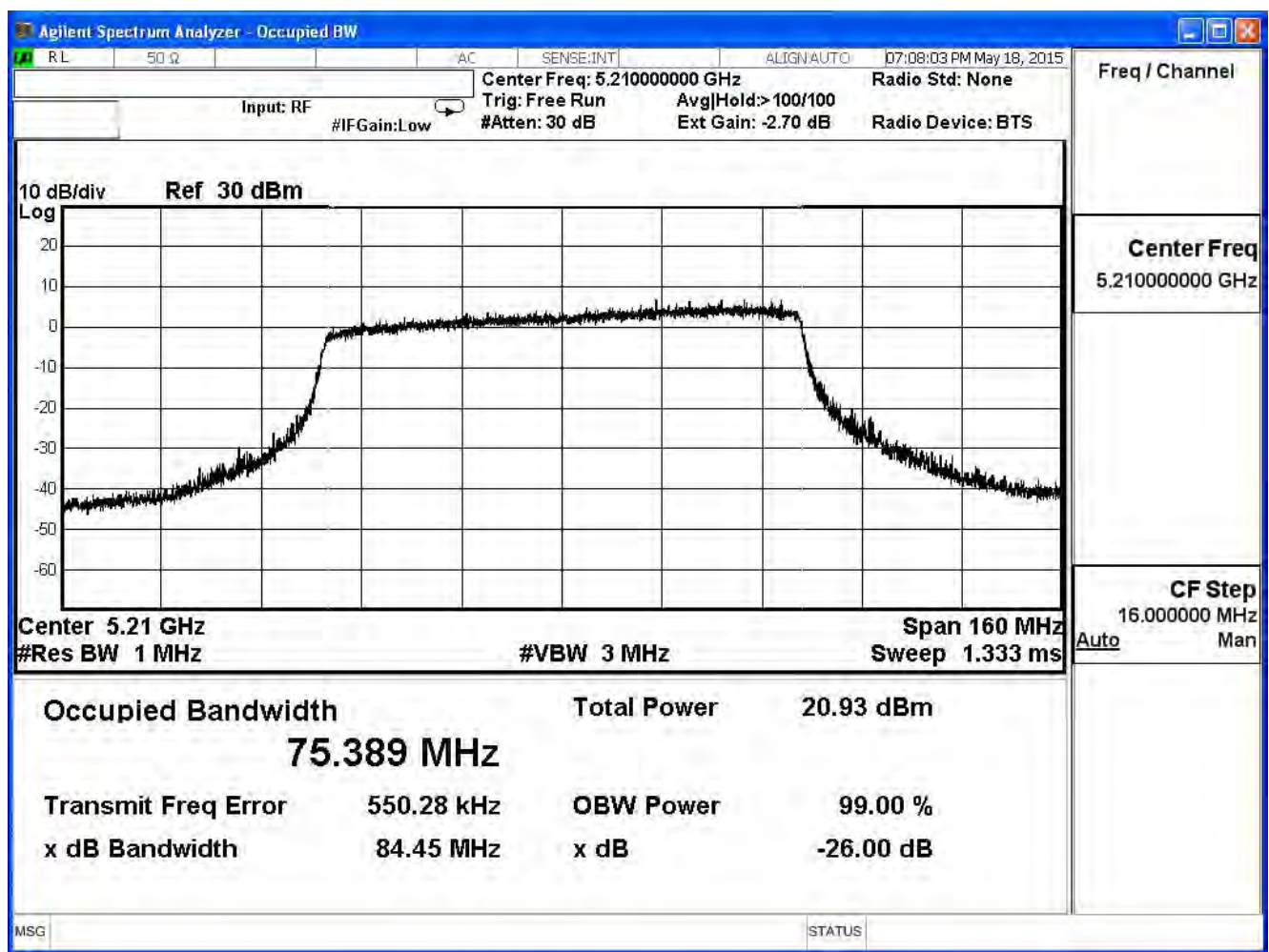


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11 ac_80M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
42	5210	84.45	75.389	--

99% & 26dB Bandwidth – Channel 42



4. Peak Transmit Output

4.1. Test Equipment

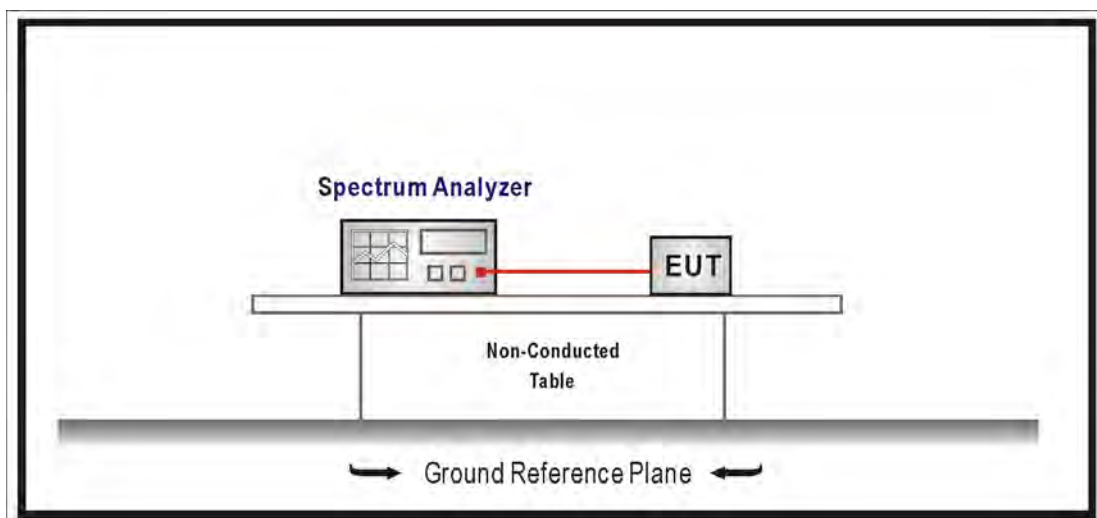
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. 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 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.
3. 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 C63.10:2009; tested to U-NII test procedure of KDB 789033 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

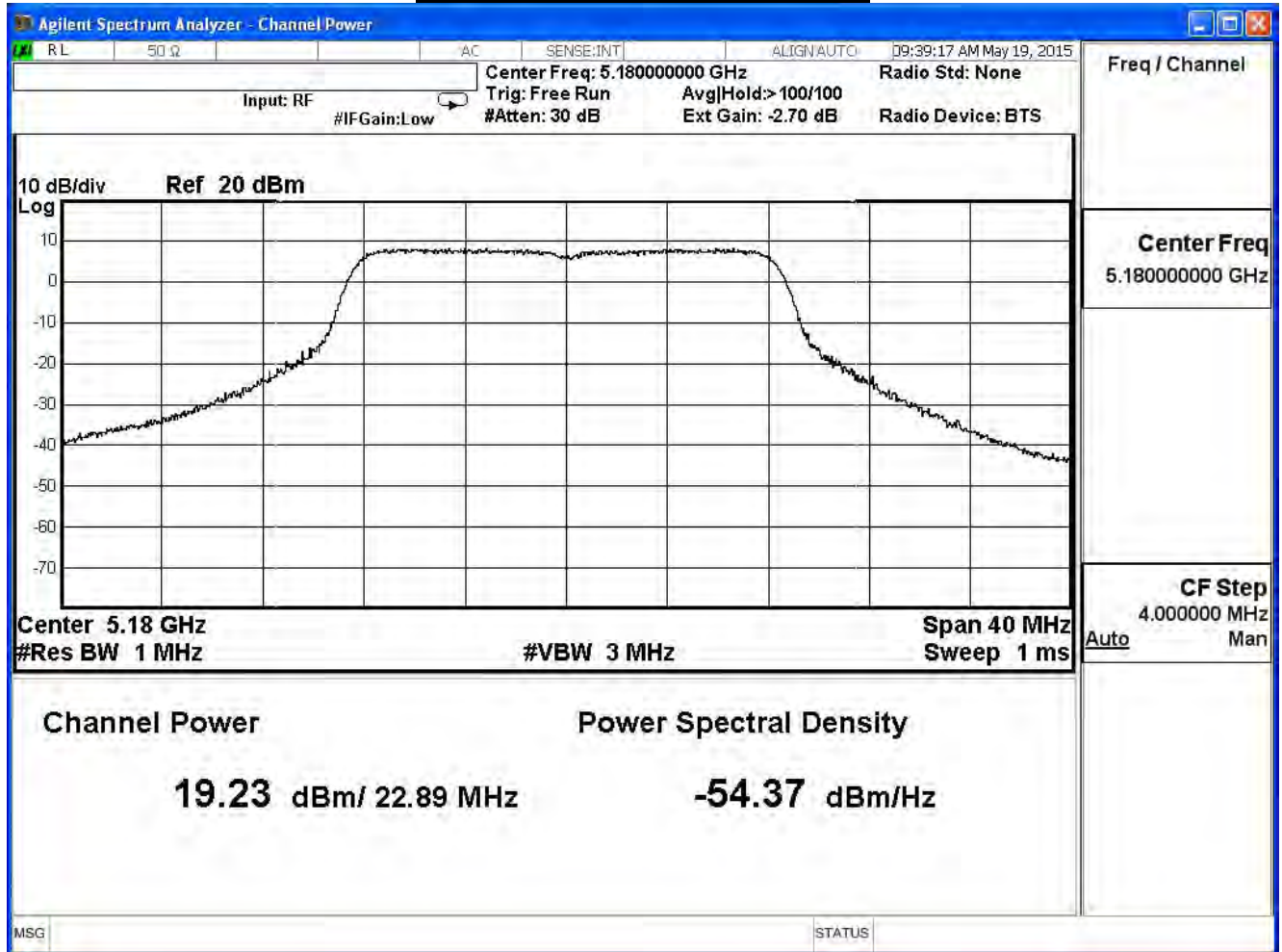
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	23.17	19.23	≤30	Pass
44	5220	22.18	19.47	≤30	Pass
48	5240	22.72	19.28	≤30	Pass

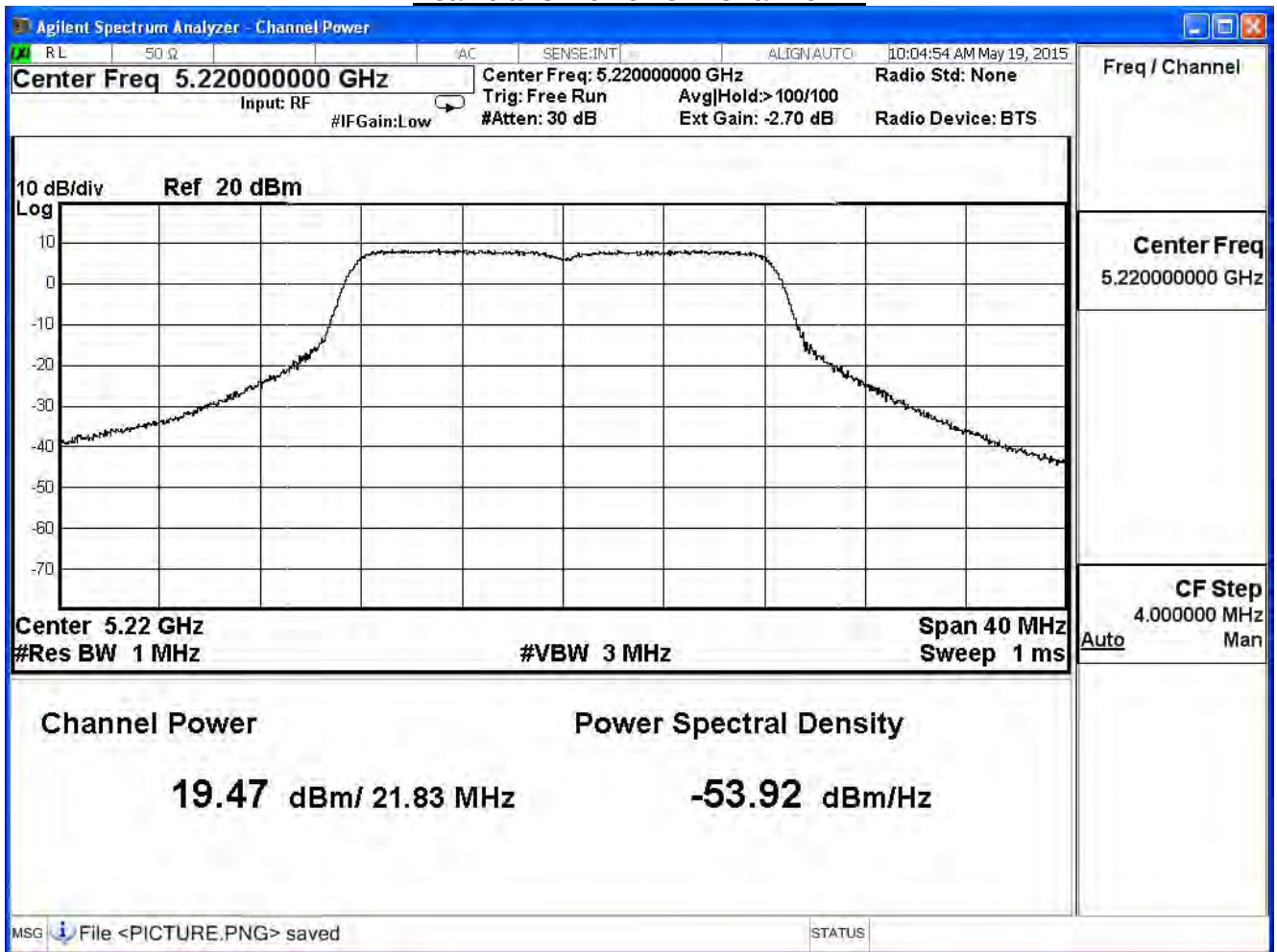
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.23	--	--	--	--	--	--	30dBm
44	5220	19.47	19.37	19.17	18.97	18.87	18.75	18.51	
48	5240	19.28	--	--	--	--	--	--	

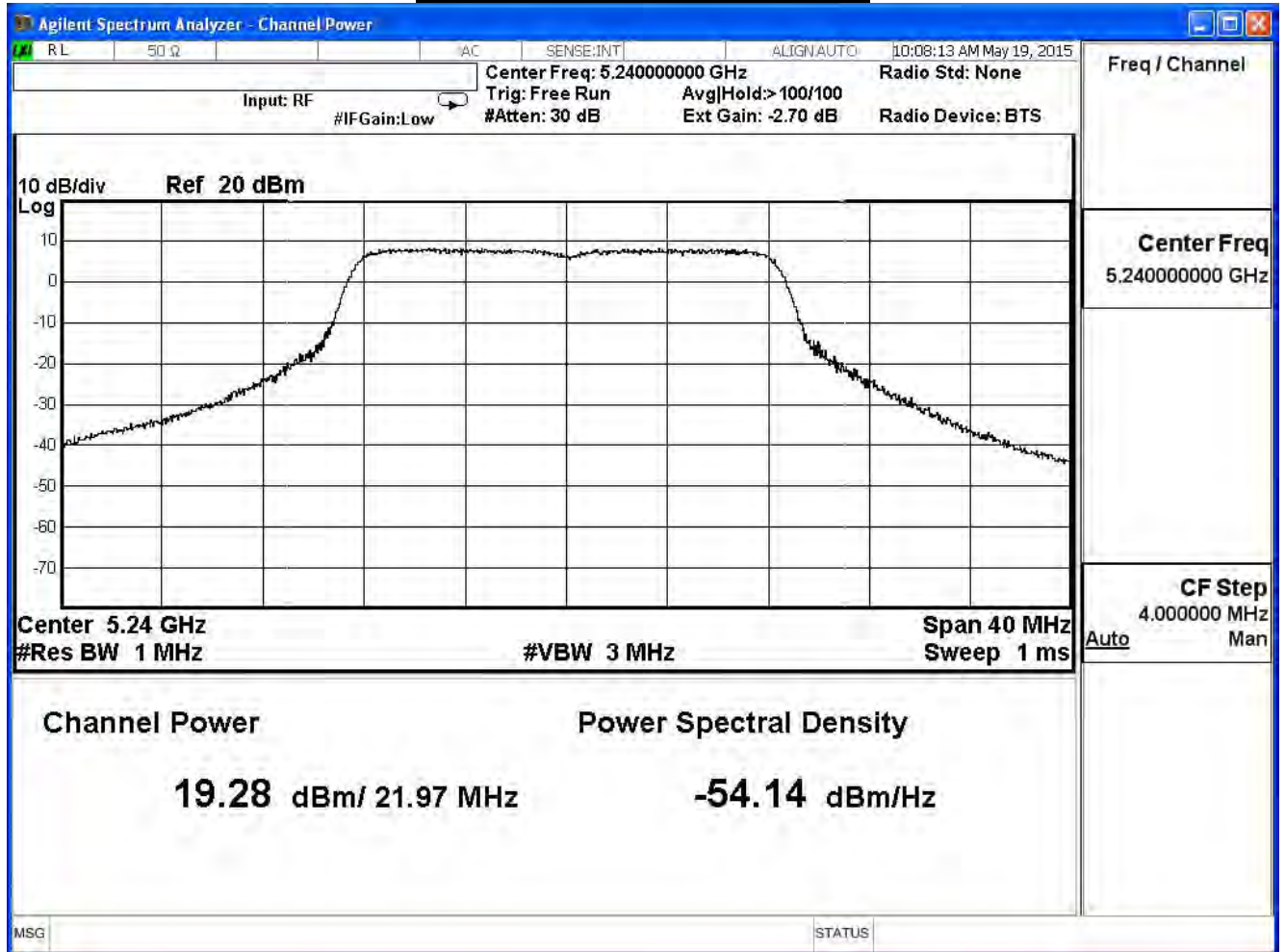
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



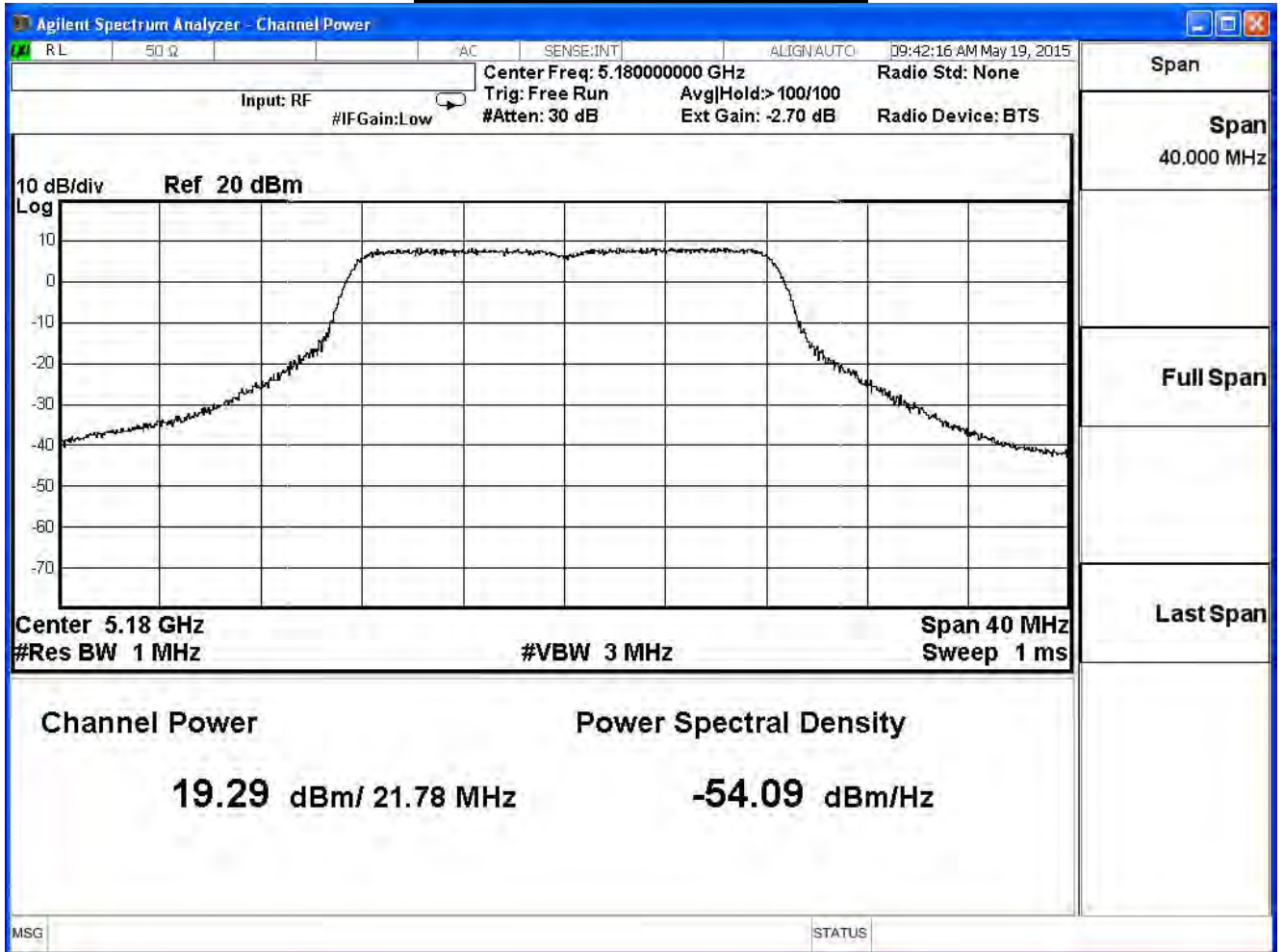
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	21.66	19.29	≤30	Pass
44	5220	22.22	19.43	≤30	Pass
48	5240	22.41	19.08	≤30	Pass

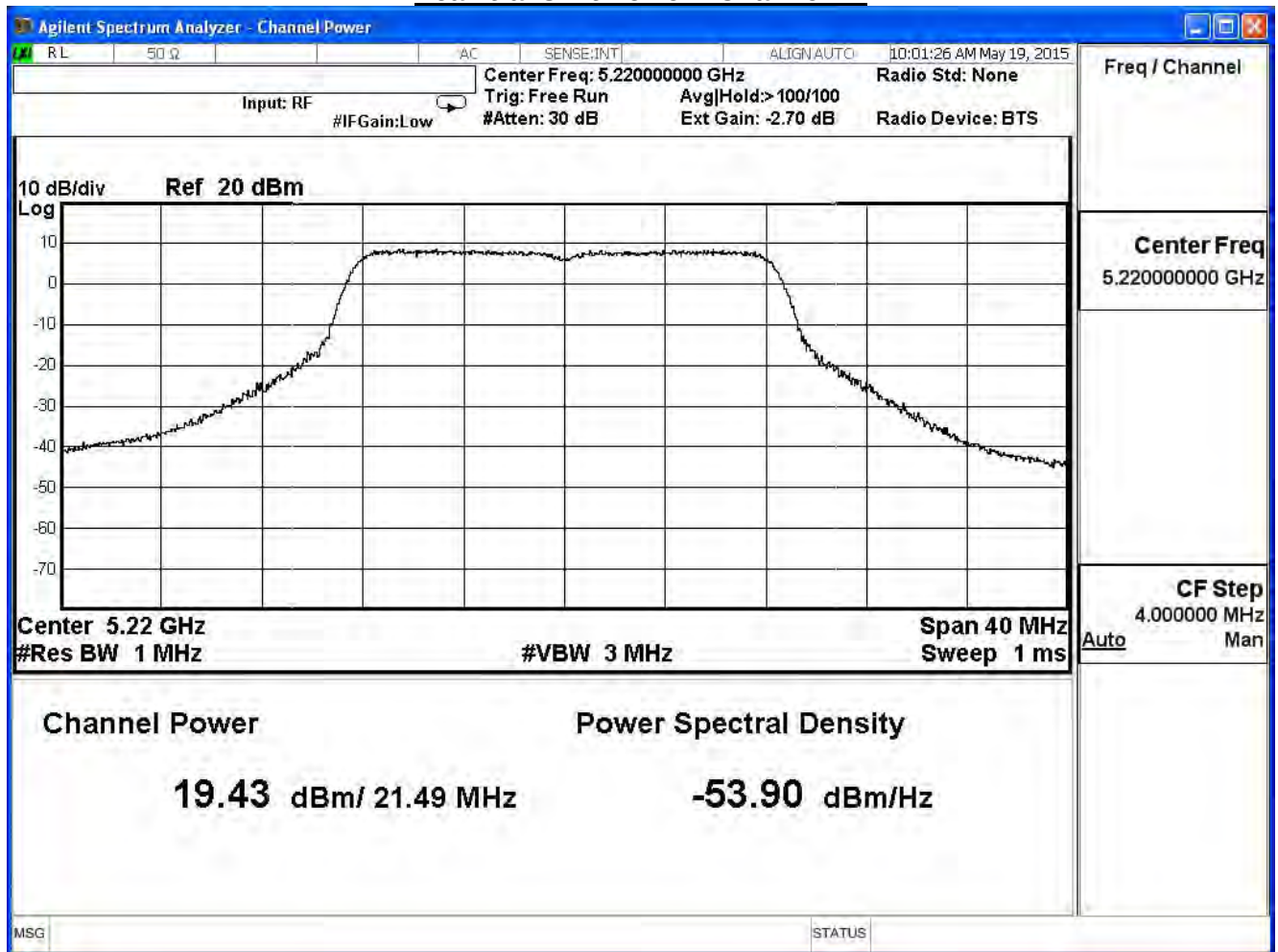
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.29	--	--	--	--	--	--	30dBm
44	5220	19.43	19.33	19.13	19.03	18.83	18.71	18.59	
48	5240	19.08	--	--	--	--	--	--	

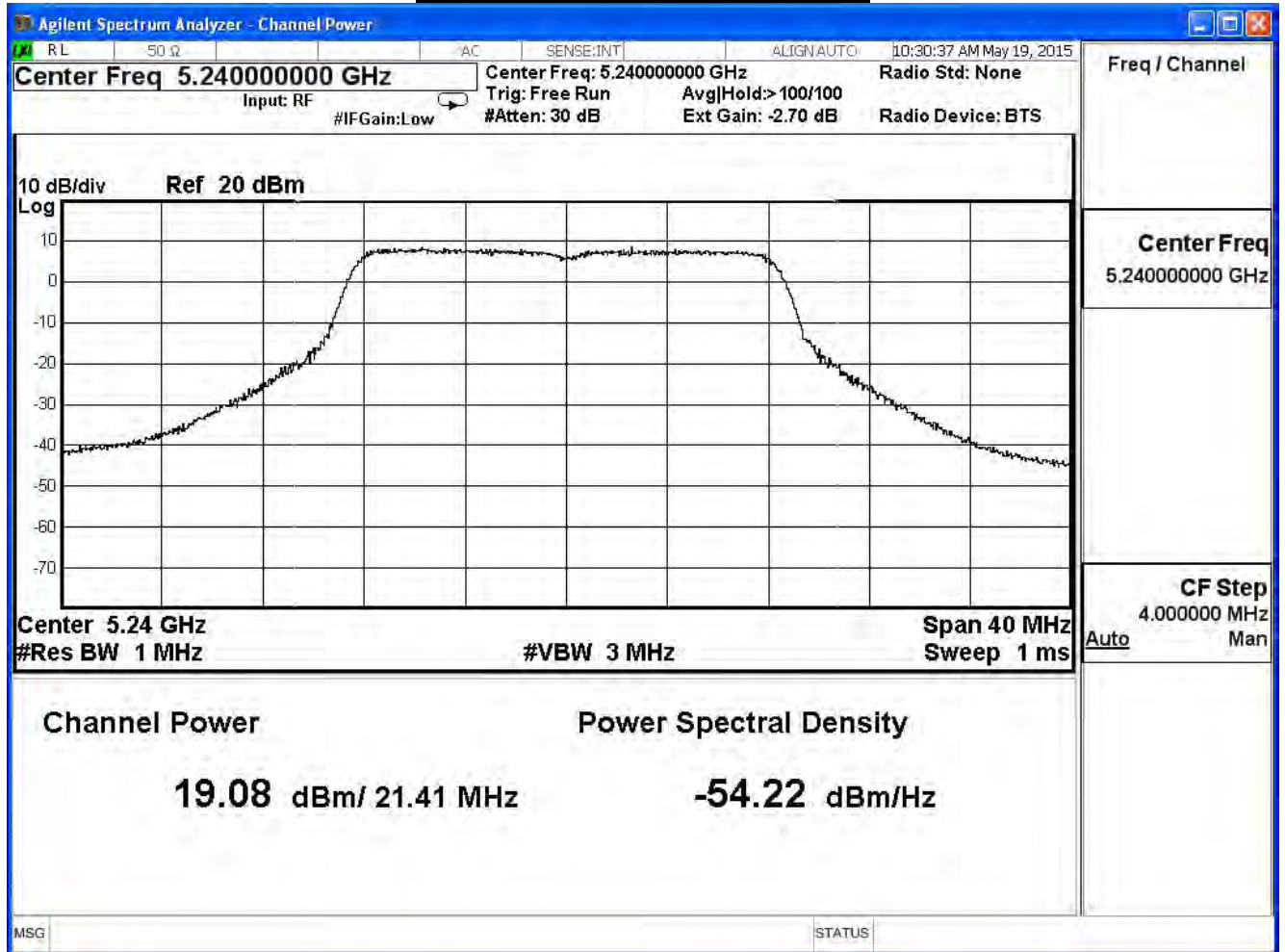
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



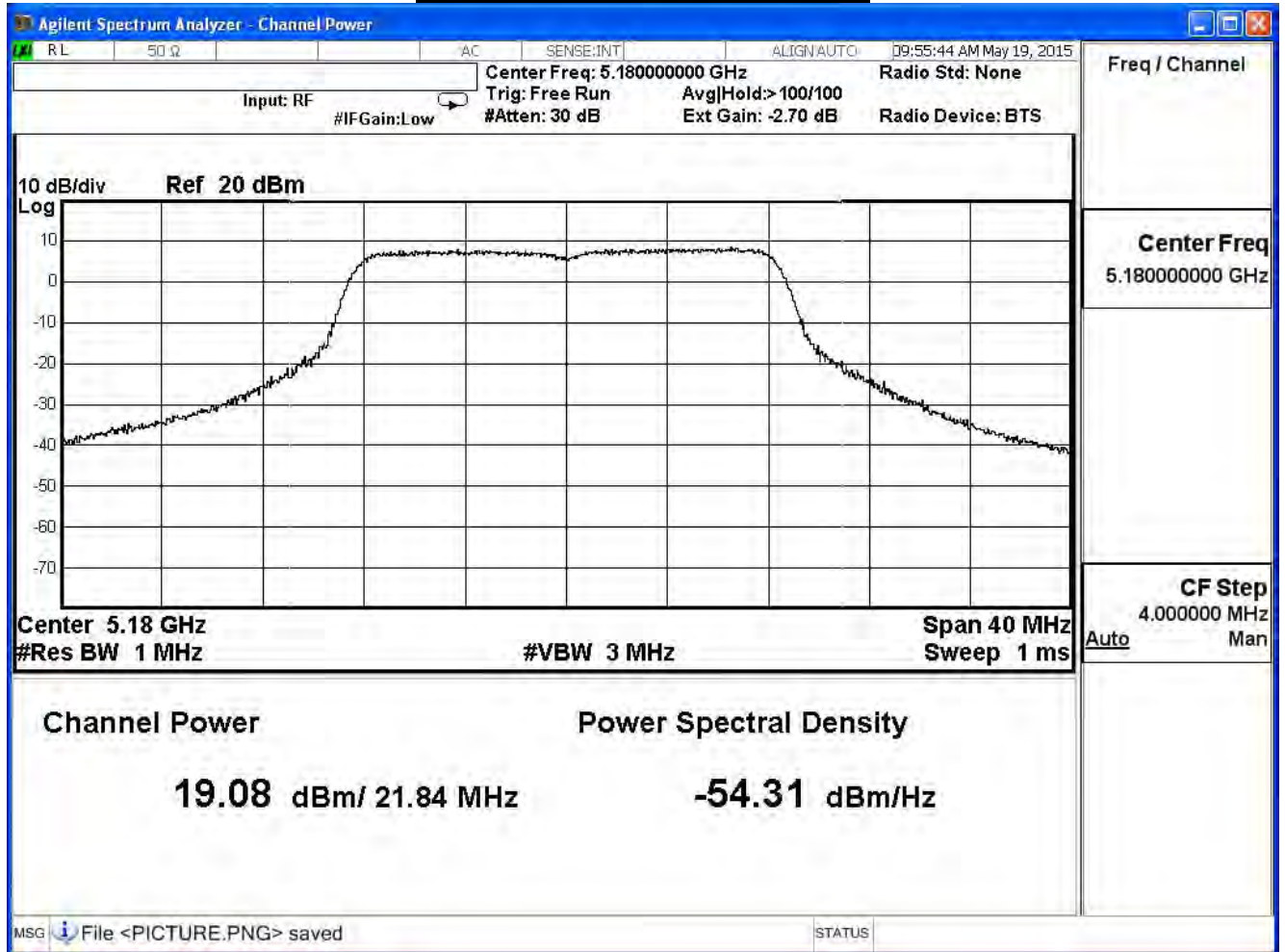
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 2)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	22.18	19.08	≤30	Pass
44	5220	22.19	19.02	≤30	Pass
48	5240	22.50	19.06	≤30	Pass

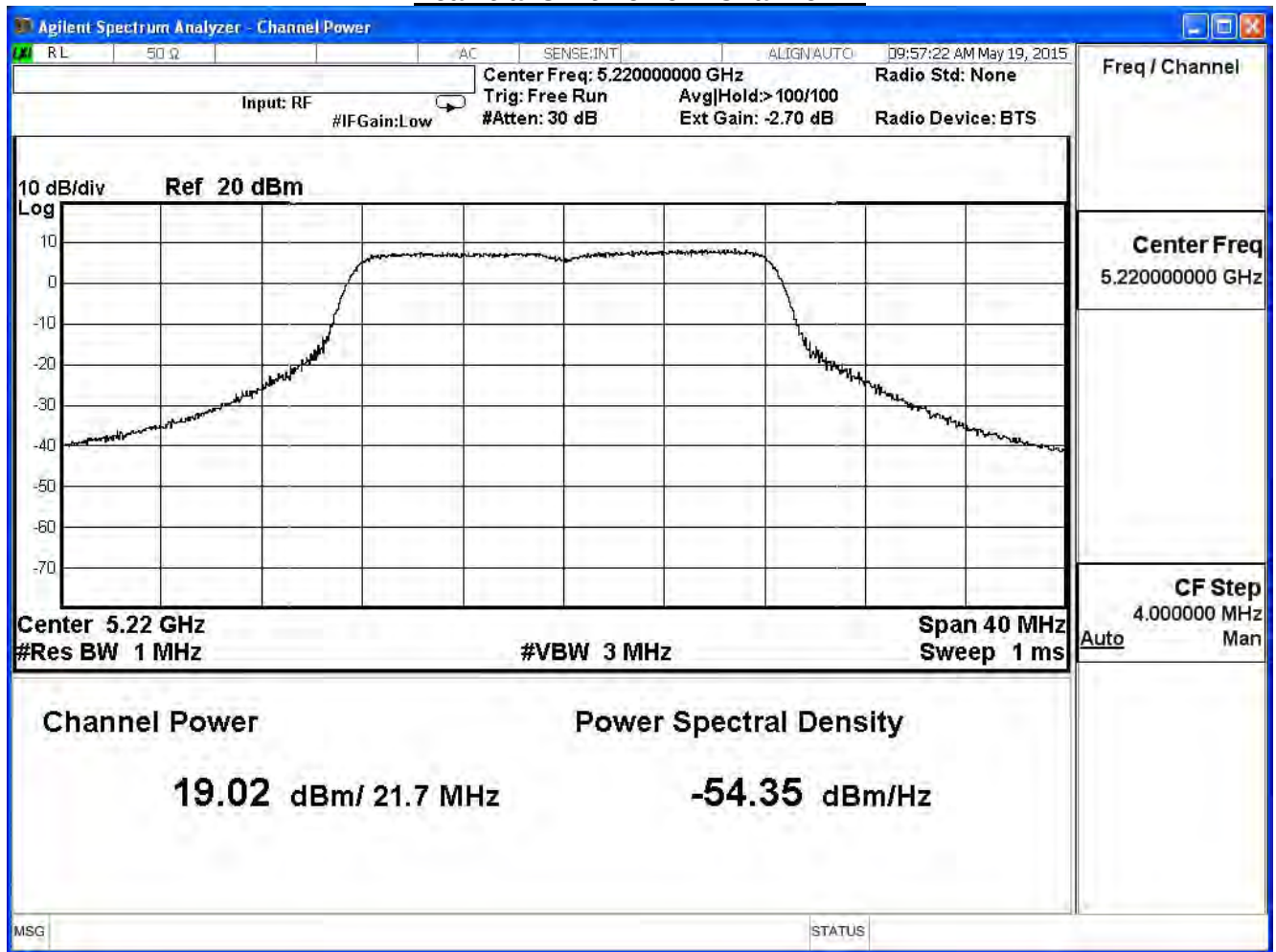
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.08	--	--	--	--	--	--	30dBm
44	5220	19.02	18.82	18.62	18.42	18.32	18.20	17.96	
48	5240	19.06	--	--	--	--	--	--	

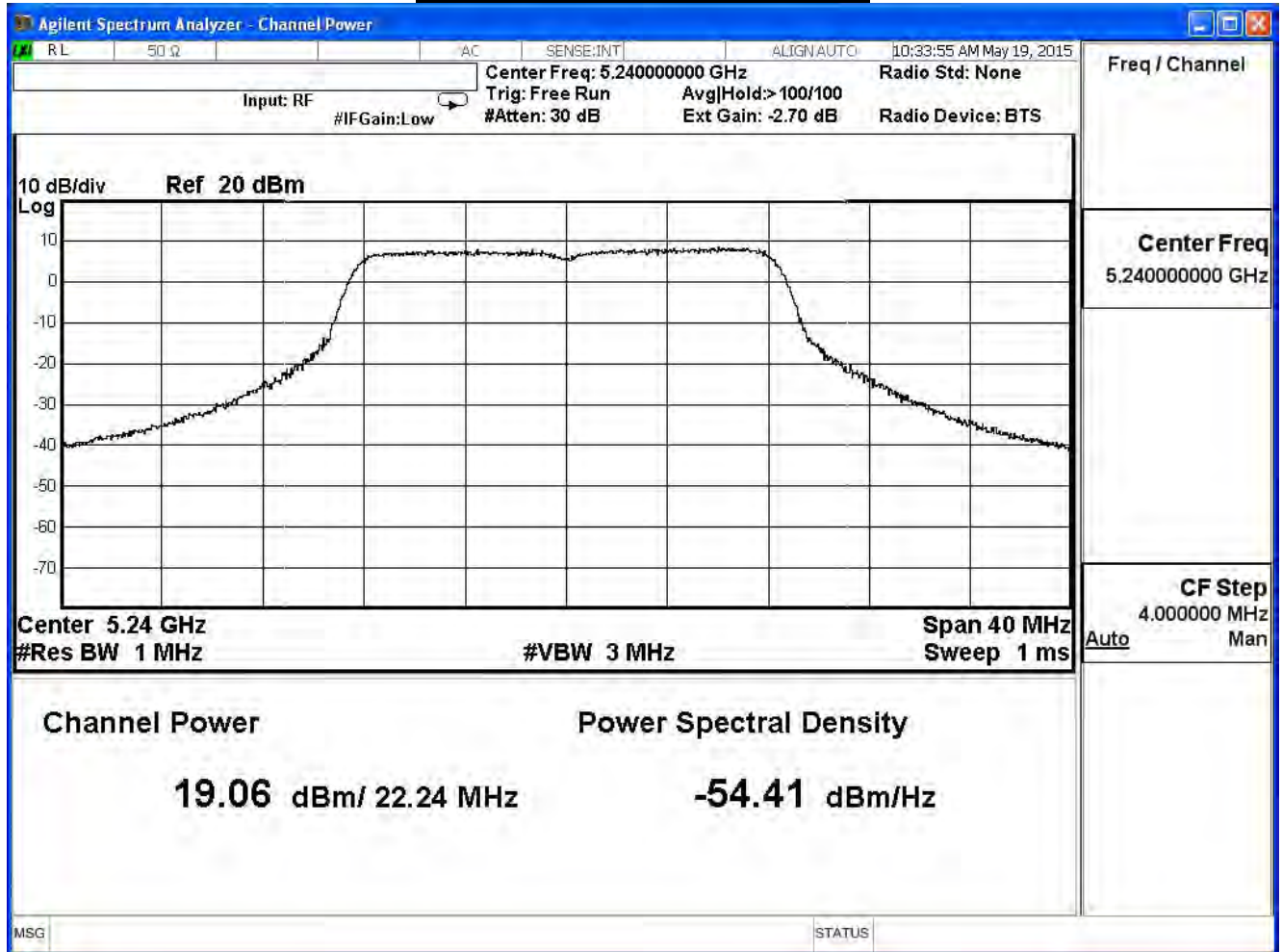
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 0+1+2)					
Channel No.	Frequency (MHz)	Output Power (mW)	Output Power (dBm)	Required Limit	Result
36	5180	262.97	23.97	≤30	Pass
44	5220	271.65	24.08	≤30	Pass
48	5240	288.61	23.91	≤30	Pass

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	23.97	--	--	--	--	--	--	30dBm
44	5220	24.08	23.95	23.75	23.59	23.45	23.33	23.13	
48	5240	23.91	--	--	--	--	--	--	

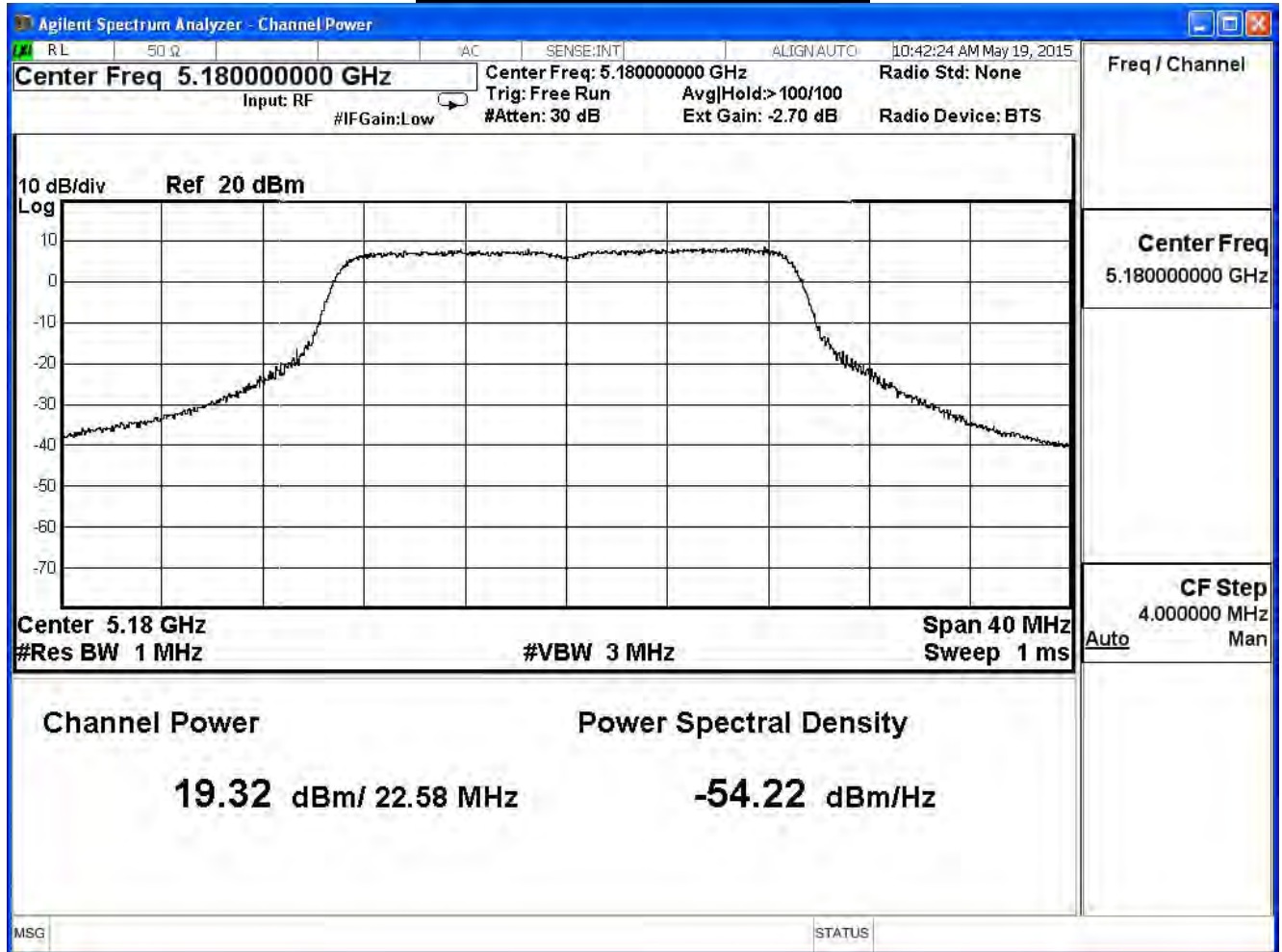
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(20MHz) (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	23.22	19.32	≤30	Pass
44	5220	23.82	19.32	≤30	Pass
48	5240	24.72	19.24	≤30	Pass

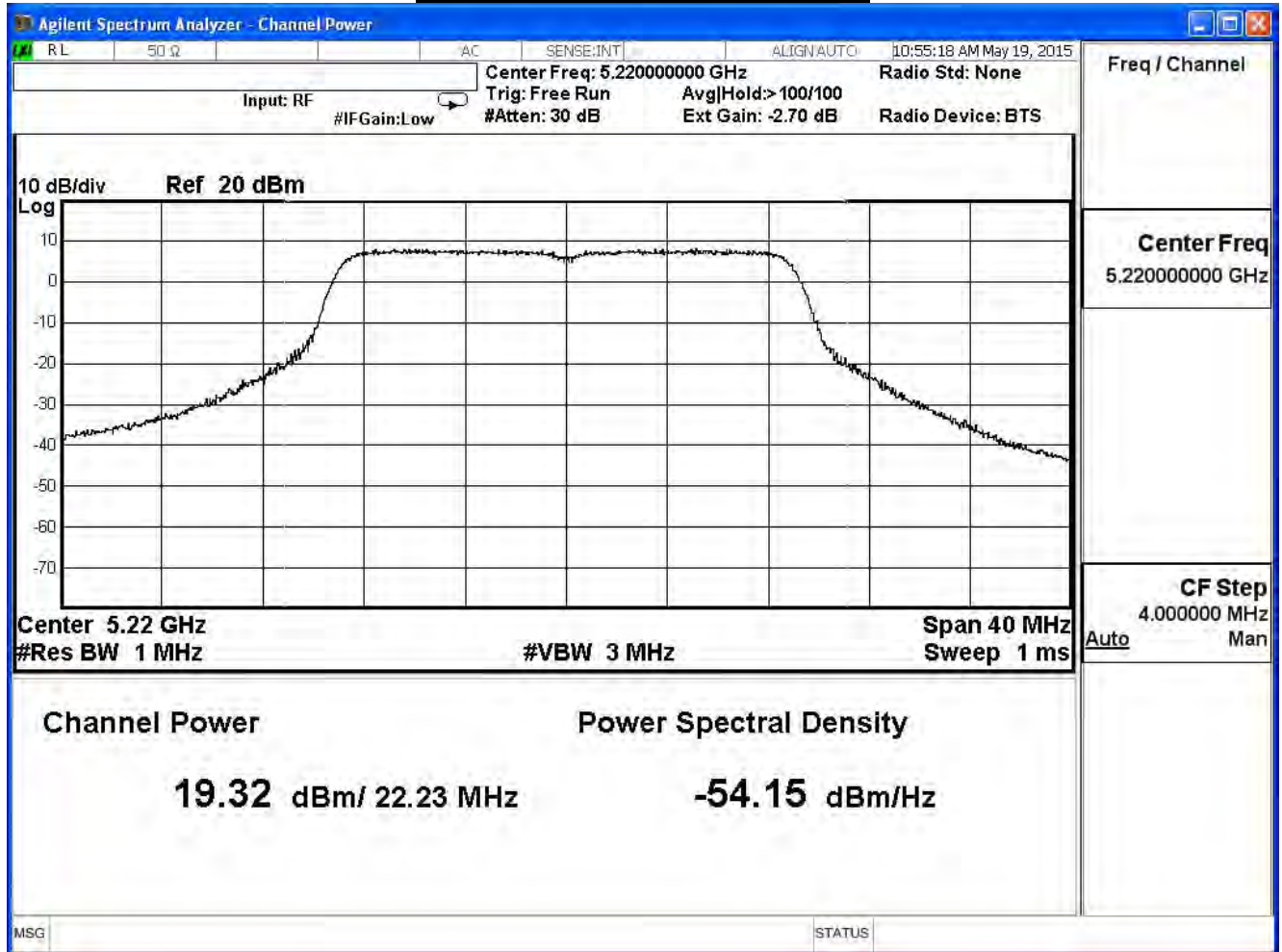
The worst emission of data rate is 6.5 Mbps.

Peak Power 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	
36	5180	19.32	--	--	--	--	--	--	--	30dBm
44	5220	19.32	19.12	19.02	18.92	18.82	18.58	18.34	18.10	
48	5240	19.24	--	--	--	--	--	--	--	

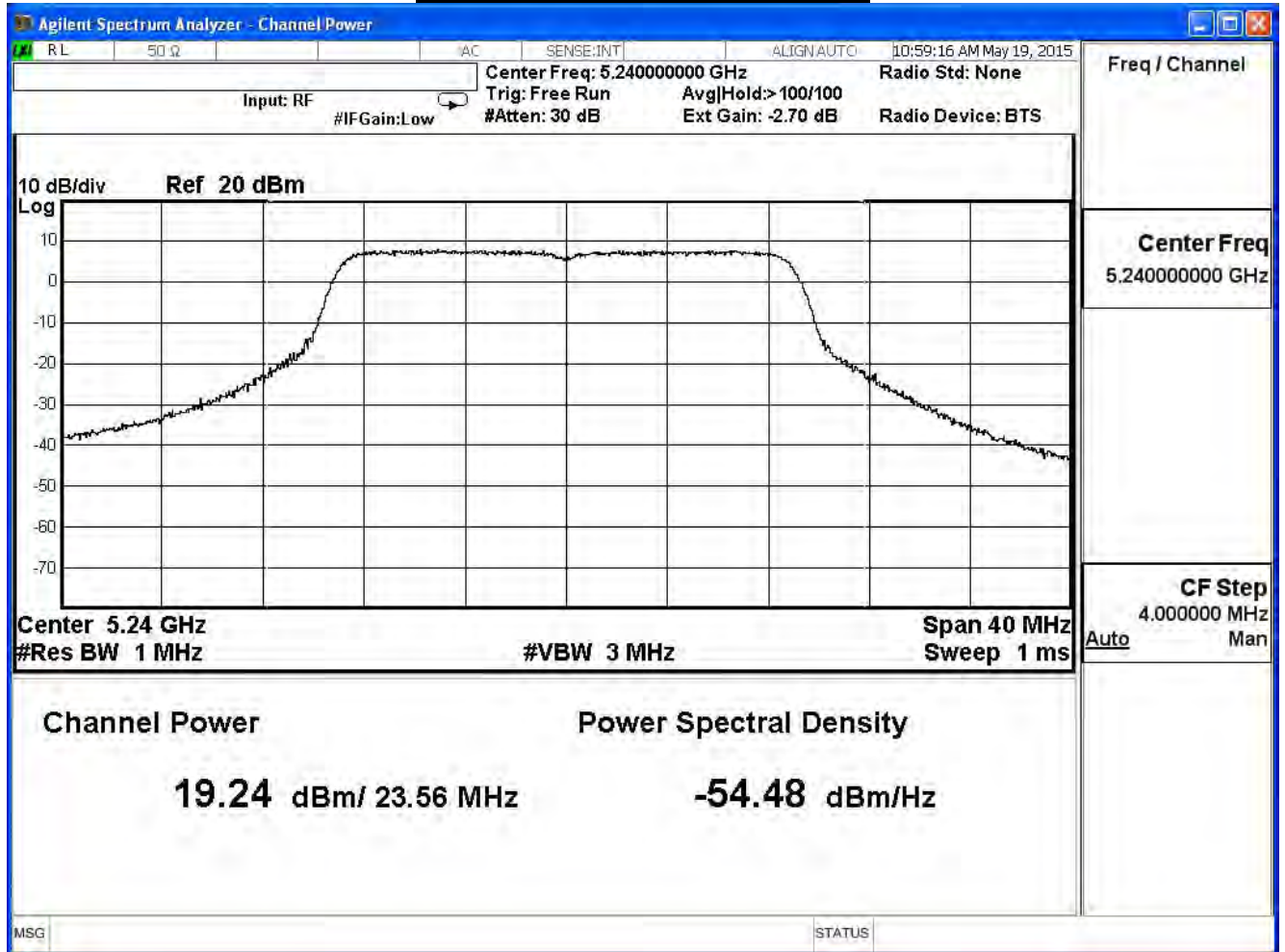
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



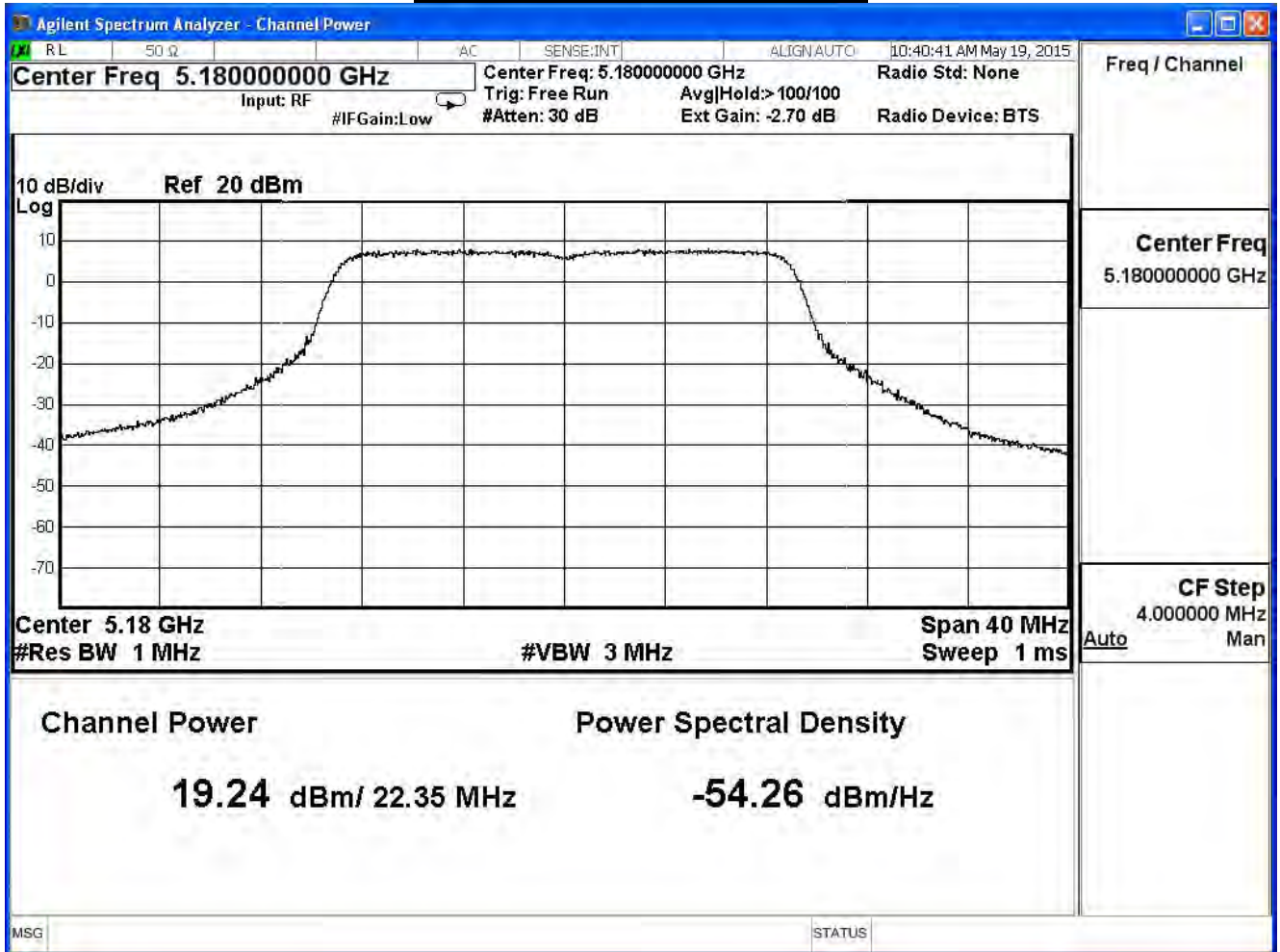
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(20MHz)(ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	23.15	19.24	≤30	Pass
44	5220	23.83	19.34	≤30	Pass
48	5240	24.00	19.35	≤30	Pass

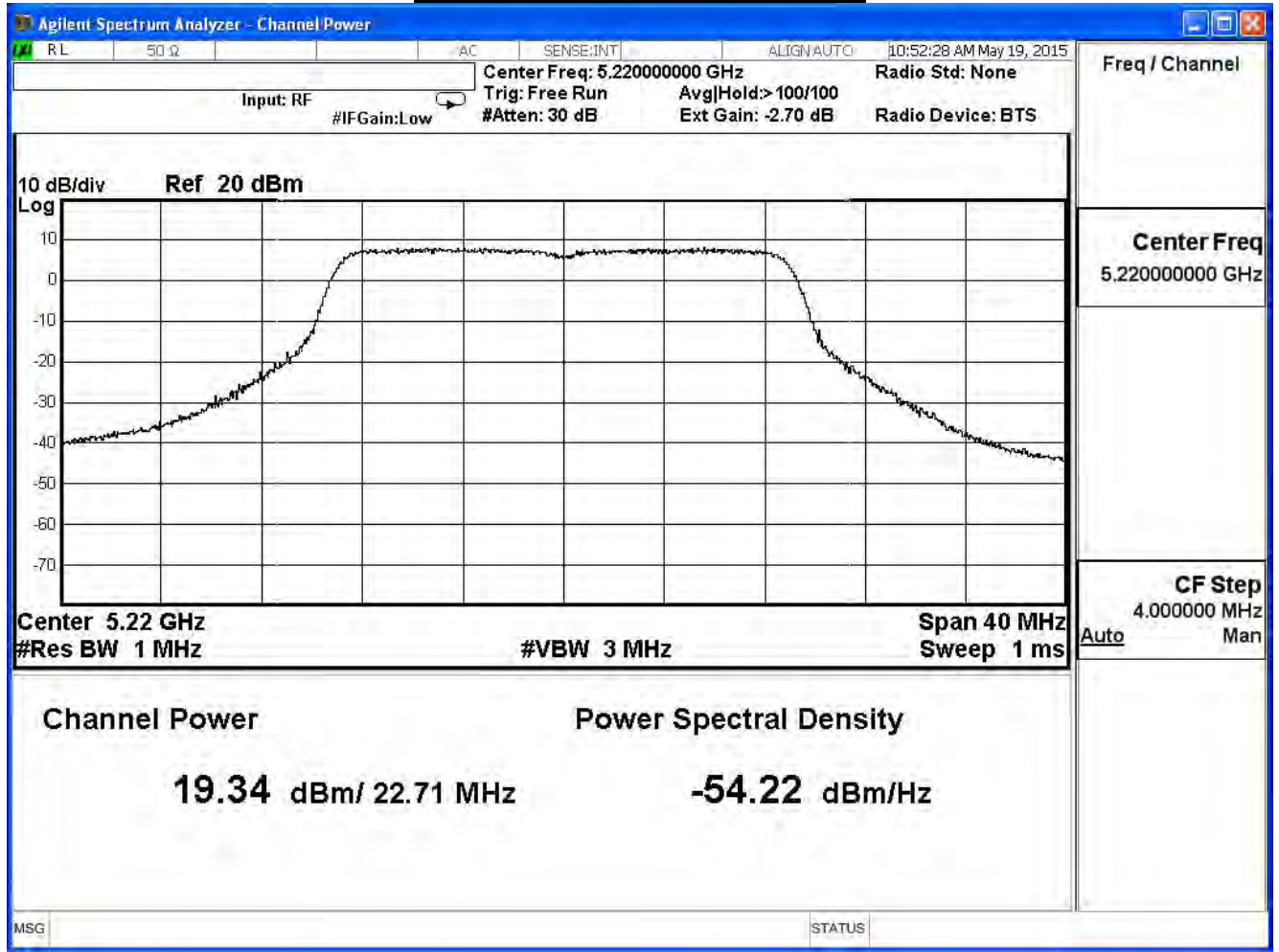
The worst emission of data rate is 6.5 Mbps.

Peak Power 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	
36	5180	19.24	--	--	--	--	--	--	--	30dBm
44	5220	19.34	19.24	19.14	19.04	18.94	18.82	18.70	18.58	
48	5240	19.35	--	--	--	--	--	--	--	

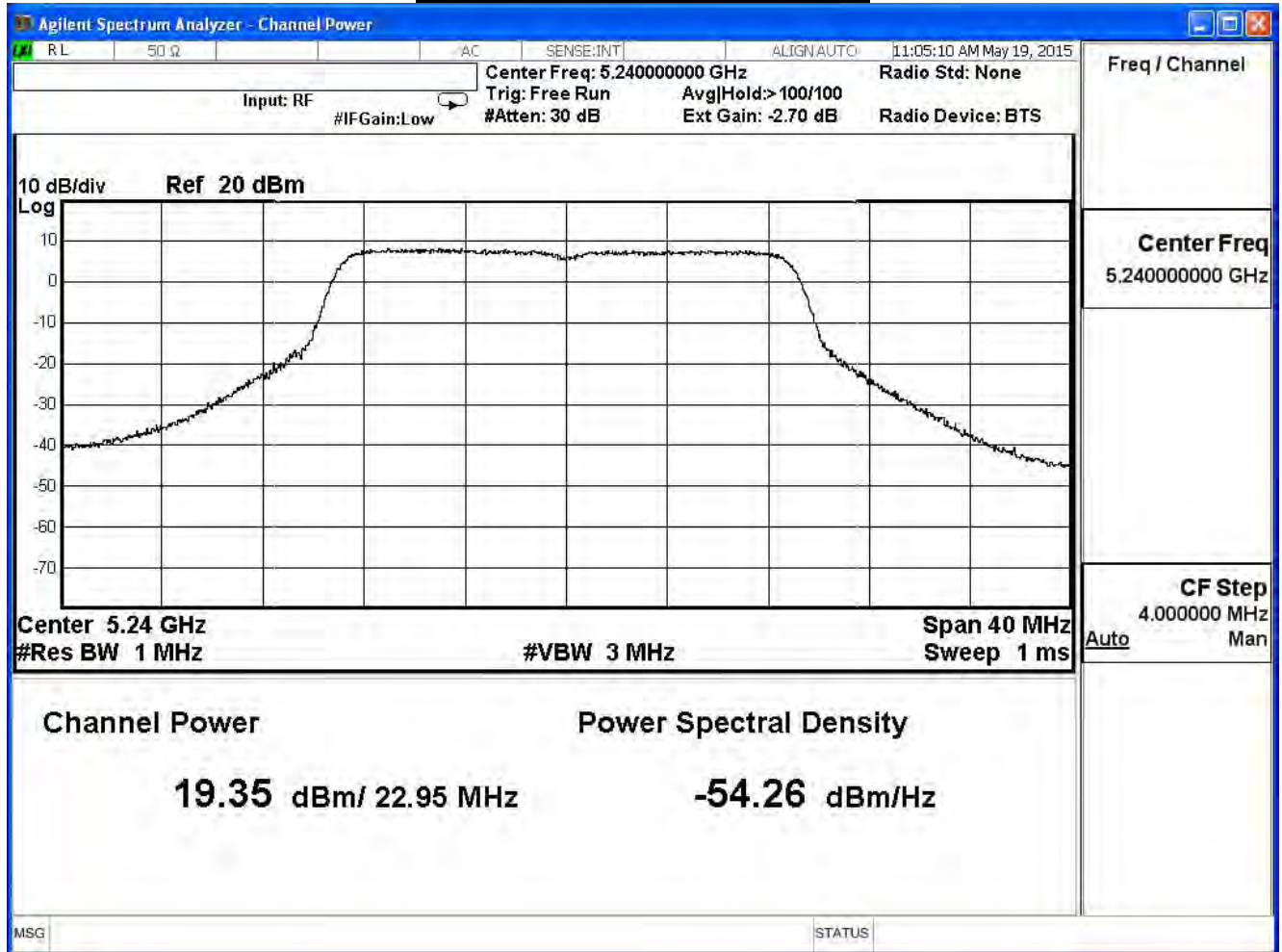
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



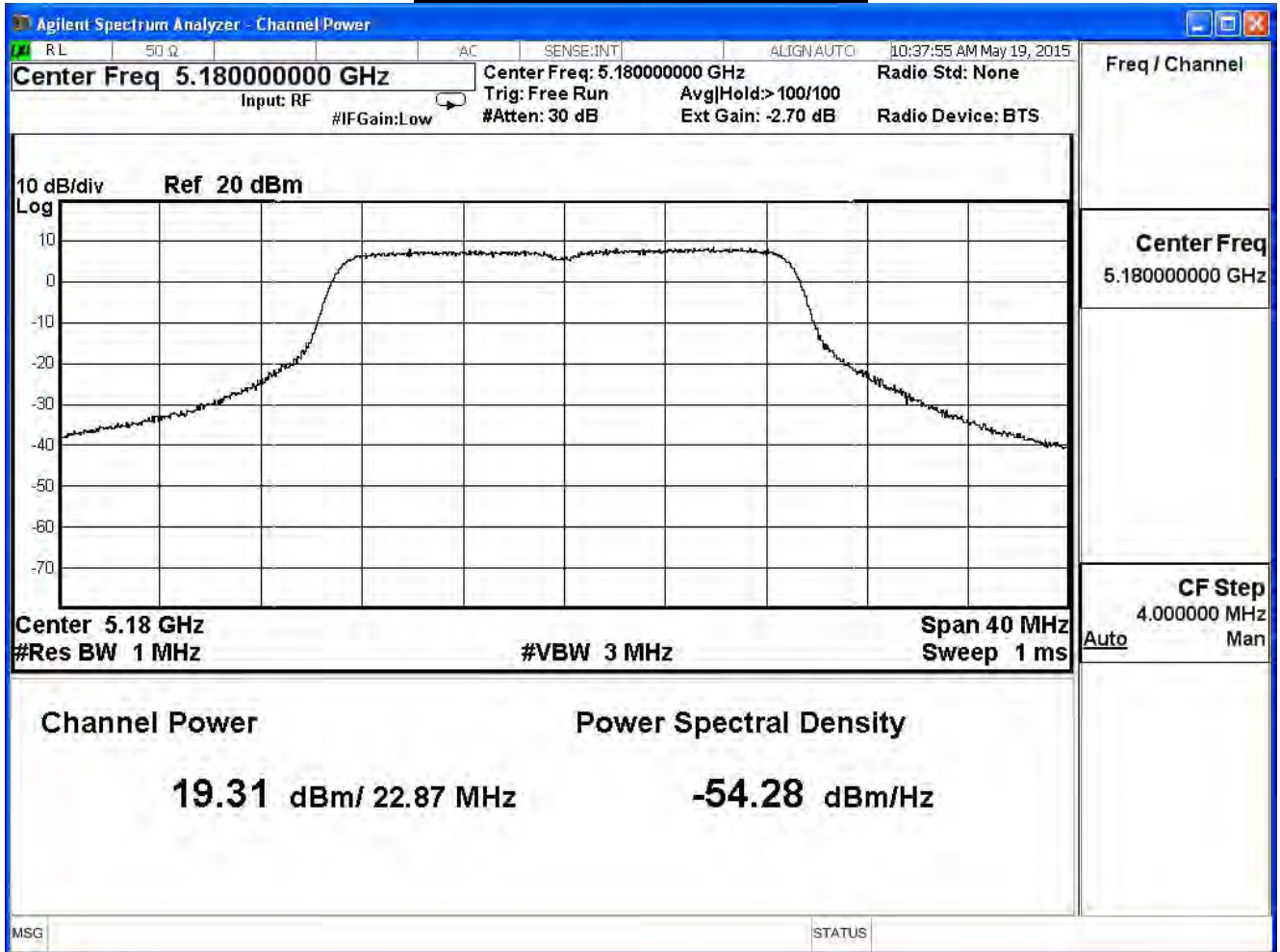
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(20MHz)(ANT 2)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	23.33	19.31	≤30	Pass
44	5220	23.58	19.25	≤30	Pass
48	5240	24.09	19.40	≤30	Pass

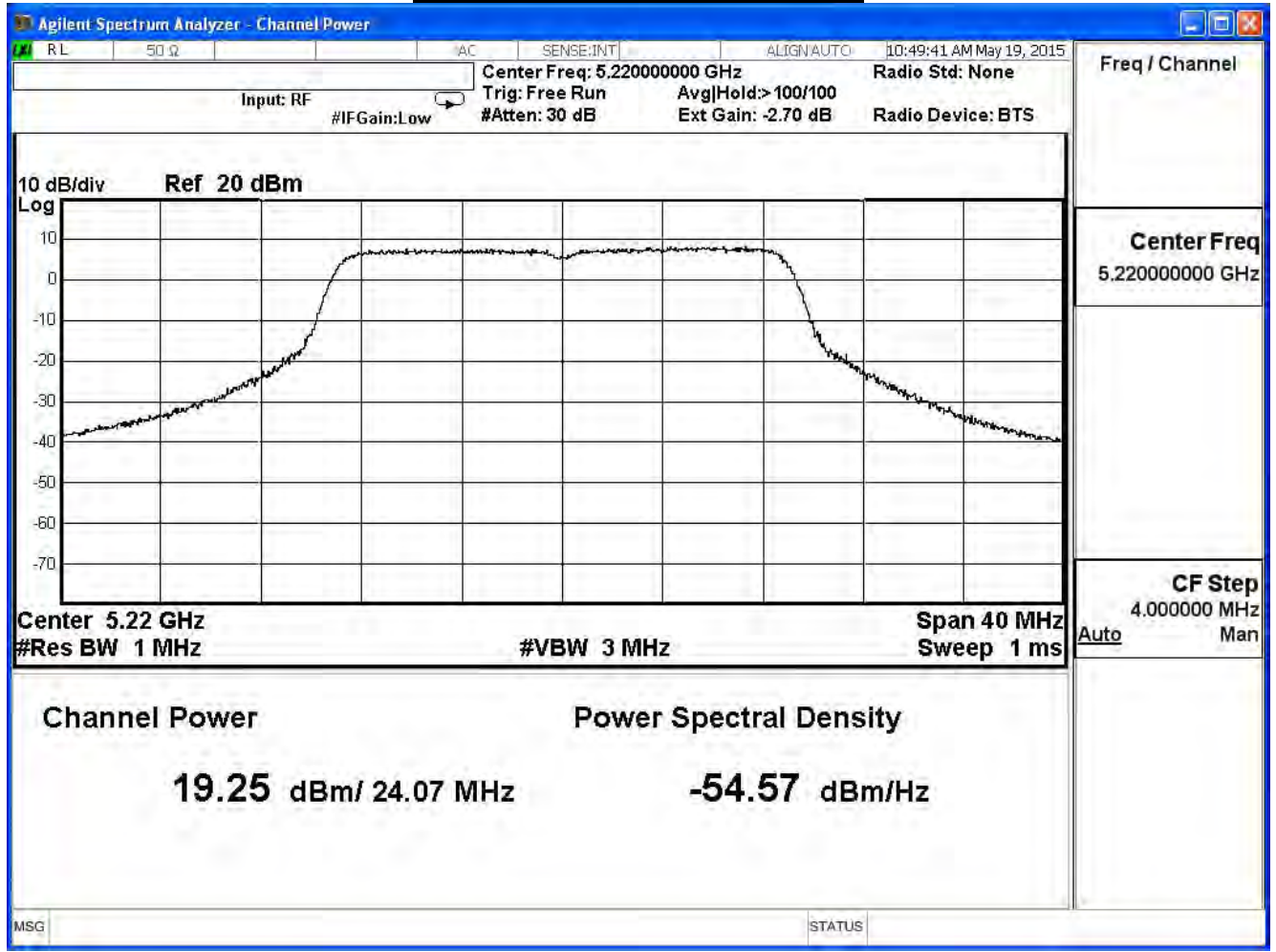
The worst emission of data rate is 6.5Mbps.

Peak Power 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	
36	5180	19.31	--	--	--	--	--	--	--	30dBm
44	5220	19.25	19.05	18.85	18.65	18.55	18.43	18.31	18.19	
48	5240	19.40	--	--	--	--	--	--	--	

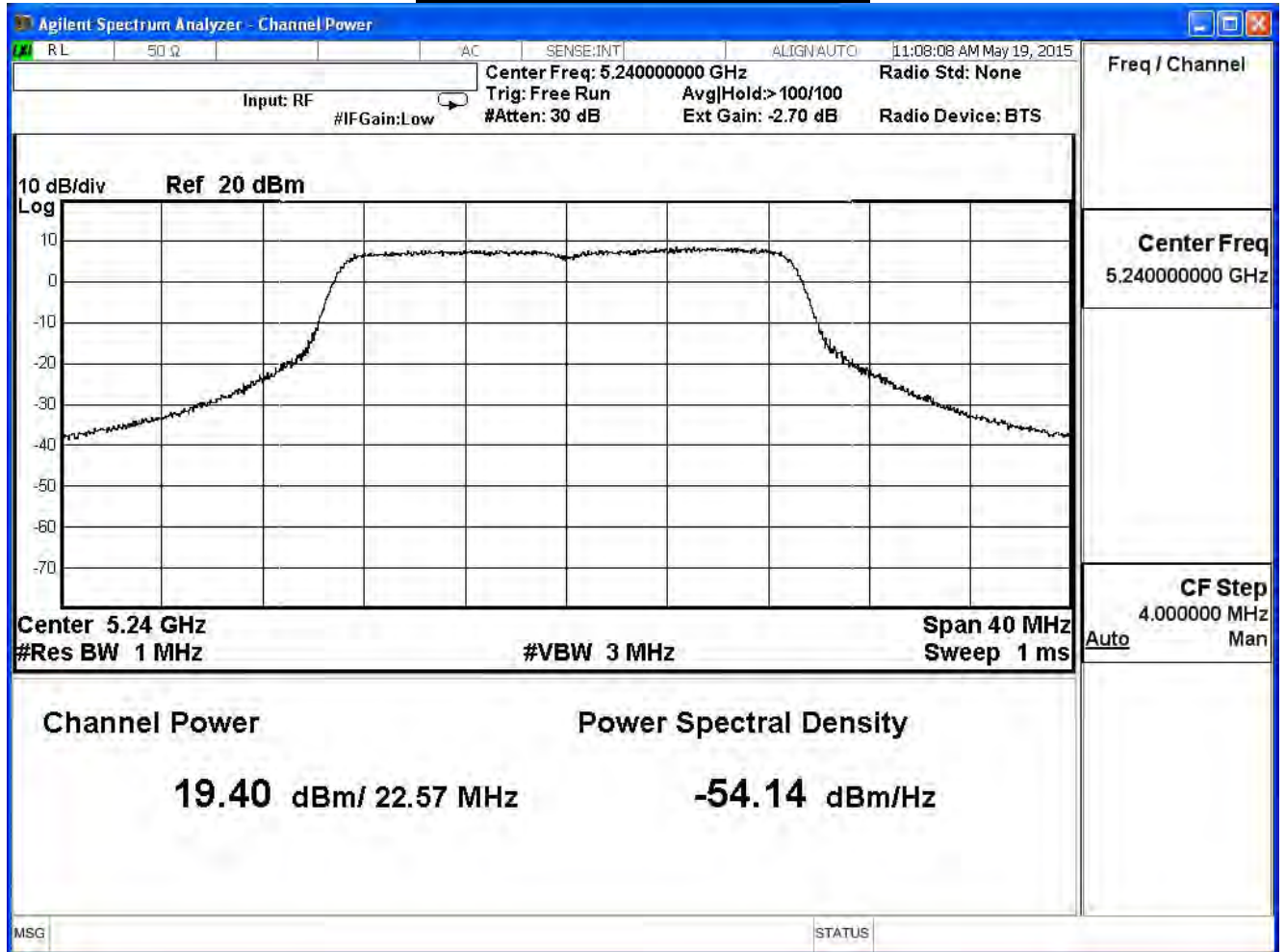
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(20MHz)(ANT 0+1+2)					
Channel No.	Frequency (MHz)	Output Power (mW)	Output Power (dBm)	Required Limit	Result
36	5180	242.79	24.06	≤30	Pass
44	5220	294.11	24.07	≤30	Pass
48	5240	306.95	24.10	≤30	Pass

Peak Power 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	
36	5180	24.06	--	--	--	--	--	--	--	30dBm
44	5220	24.07	23.91	23.78	23.64	23.54	23.38	23.22	23.07	
48	5240	24.10	--	--	--	--	--	--	--	

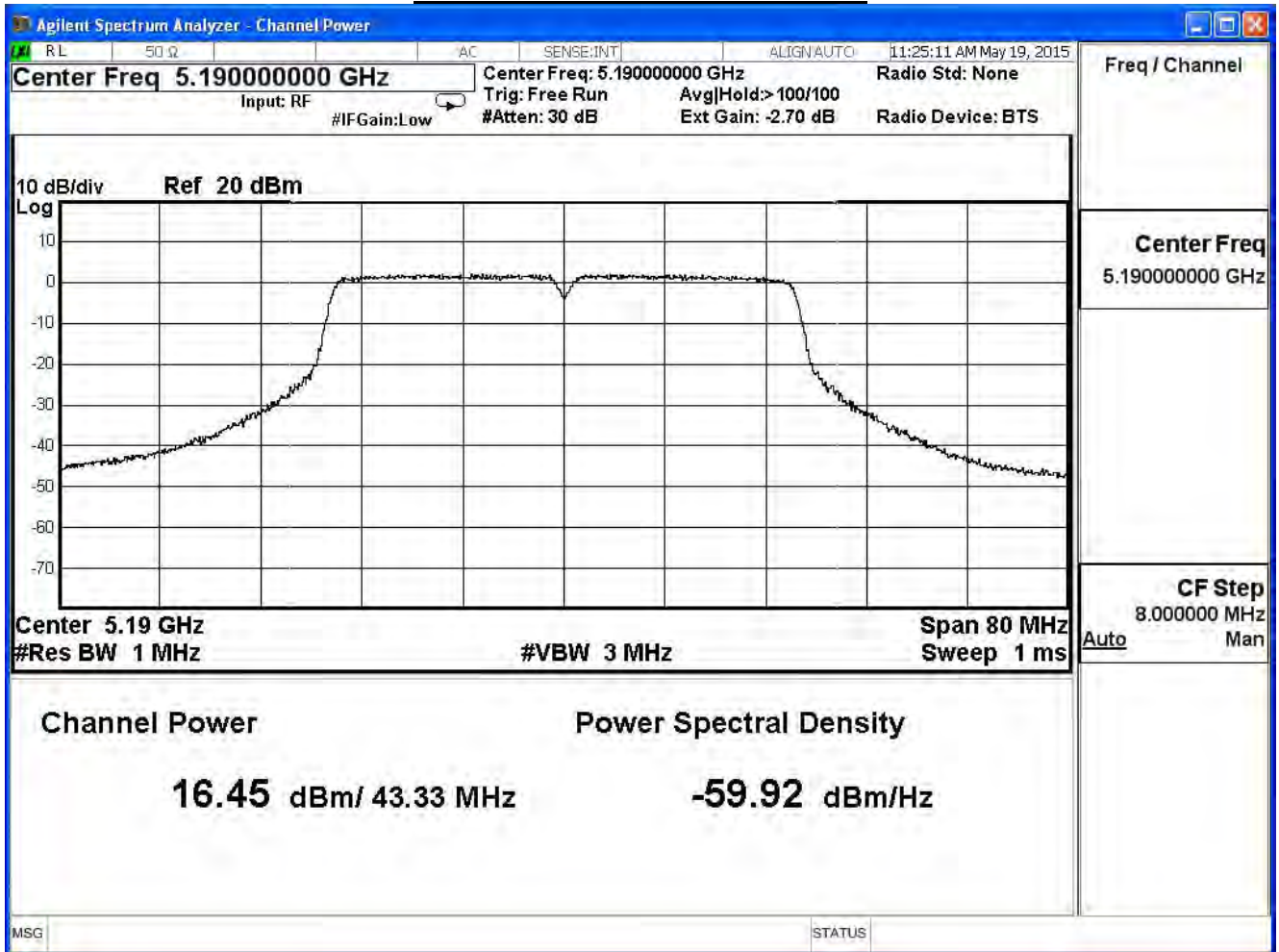
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
38	5190	44.08	16.45	≤30	Pass
46	5230	57.88	22.74	≤30	Pass

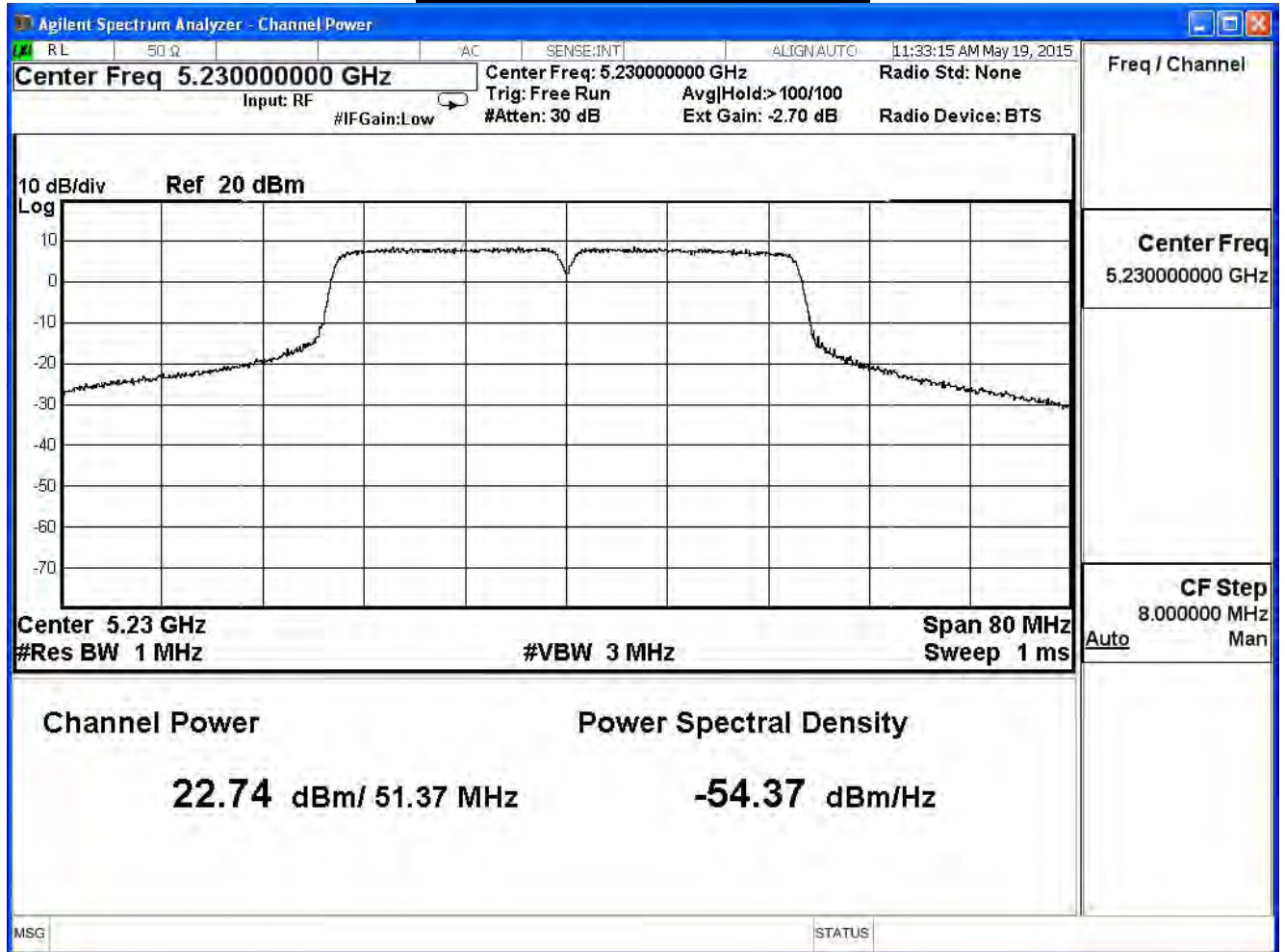
The worst emission of data rate is 13.5 Mbps

Peak Power 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	
38	5190	16.45	--	--	--	--	--	--	--	30dBm
46	5230	22.74	22.64	22.54	22.50	22.40	22.28	22.16	22.04	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



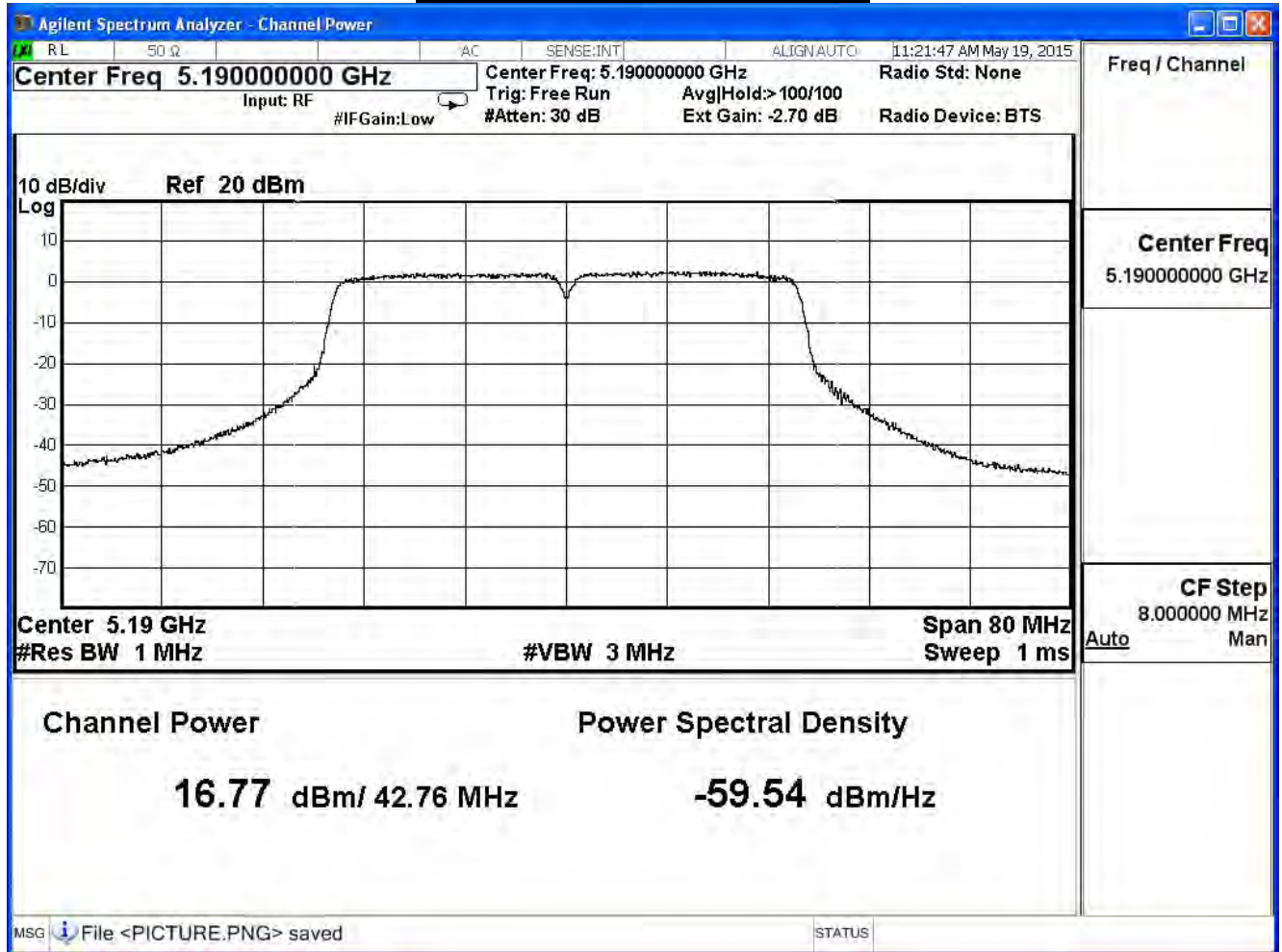
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
38	5190	43.06	16.77	≤30	Pass
46	5230	56.47	22.66	≤30	Pass

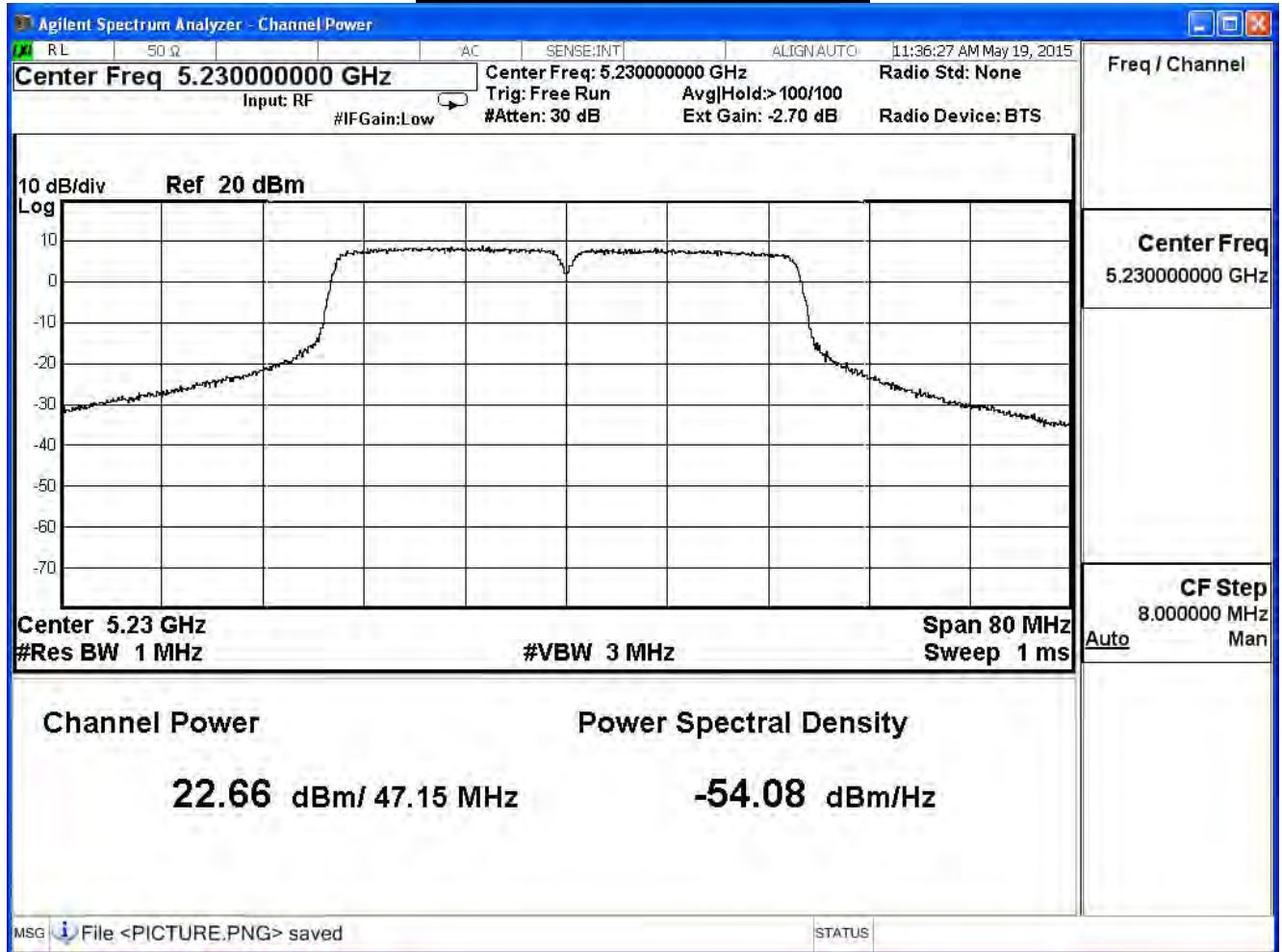
The worst emission of data rate is 13.5Mbps

Peak Power 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	
38	5190	16.77	--	--	--	--	--	--	--	30dBm
46	5230	22.66	22.56	22.50	22.46	22.12	22.01	21.77	21.53	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



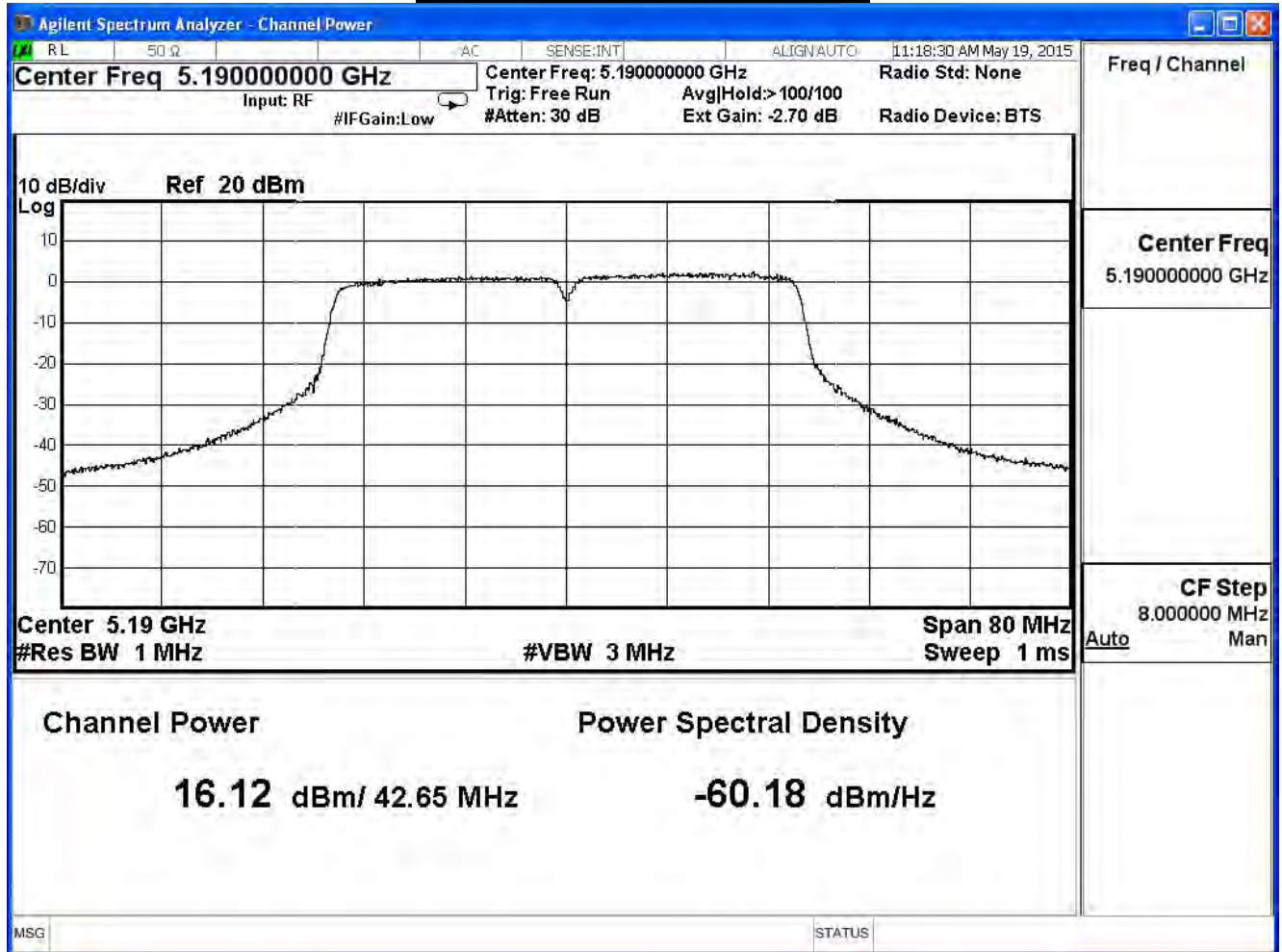
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 2)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
38	5190	43.06	16.12	≤30	Pass
46	5230	56.47	22.46	≤30	Pass

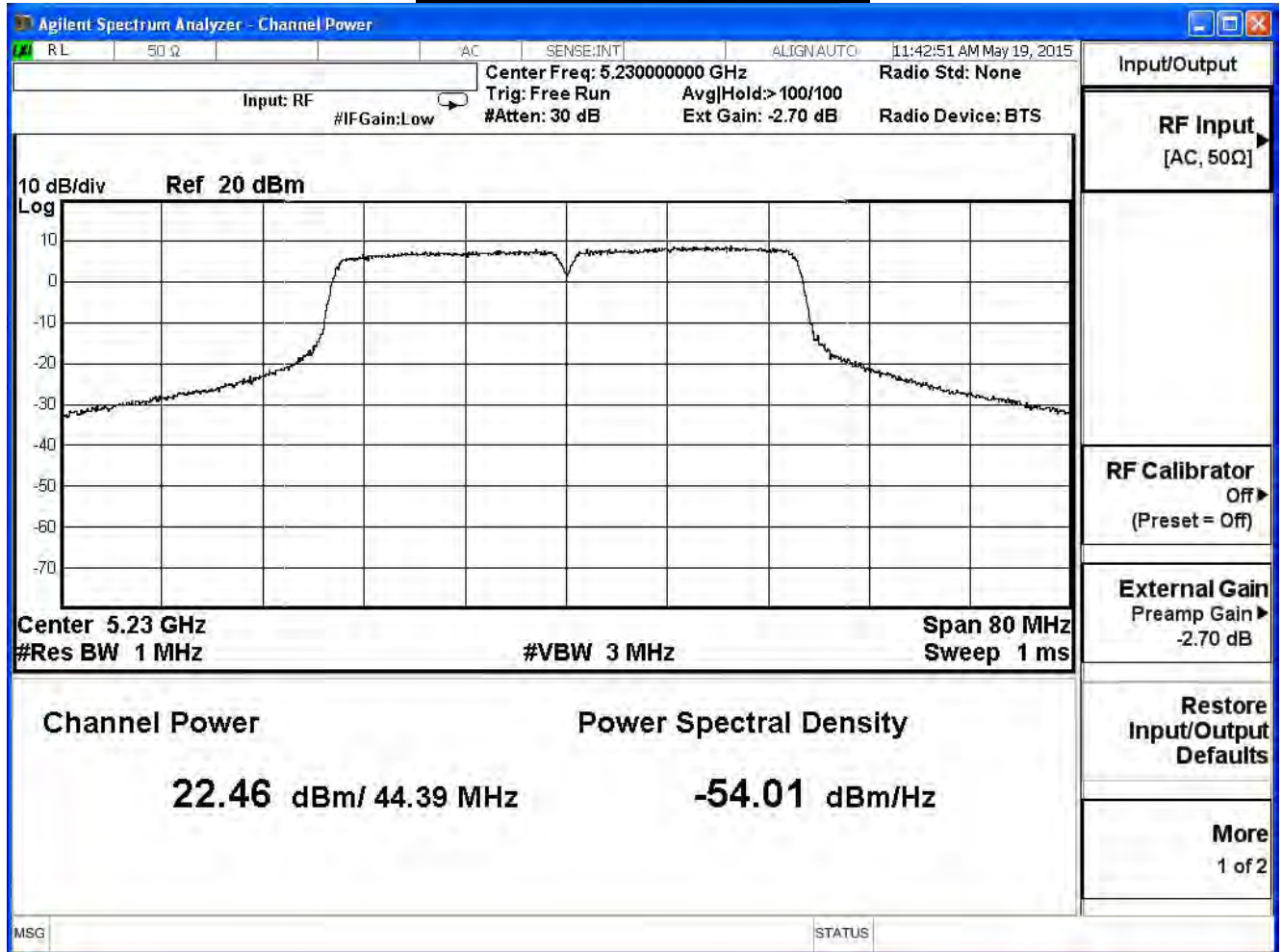
The worst emission of data rate is 13.5 Mbps

Peak Power 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	
38	5190	16.12	--	--	--	--	--	--	--	30dBm
46	5230	22.46	22.43	22.39	22.25	22.18	22.02	21.90	21.66	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 0+1+2)					
Channel No.	Frequency (MHz)	Output Power (mW)	Output Power (dBm)	Required Limit	Result
38	5190	132.74	21.23	≤30	Pass
46	5230	548.28	27.39	≤30	Pass

Peak Power 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	
38	5190	21.23	--	--	--	--	--	--	--	30dBm
46	5230	27.39	27.32	27.25	27.18	27.01	26.88	26.72	26.52	

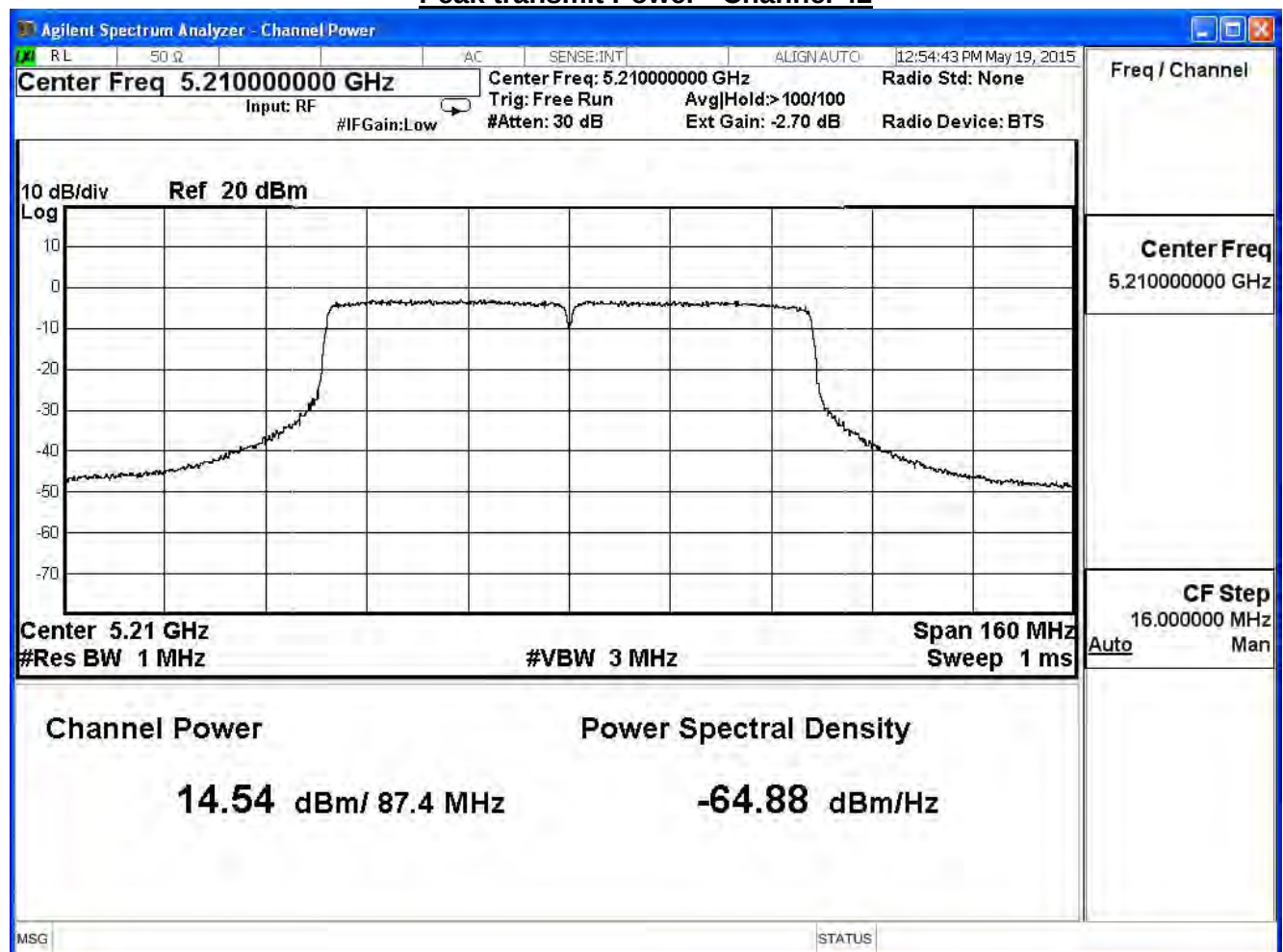
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
42	5210	87.49	14.54	≤30	Pass

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
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	14.54	14.34	14.24	14.14	13.94	13.74	13.50	13.26	13.14	12.90

Peak transmit Power - Channel 42



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

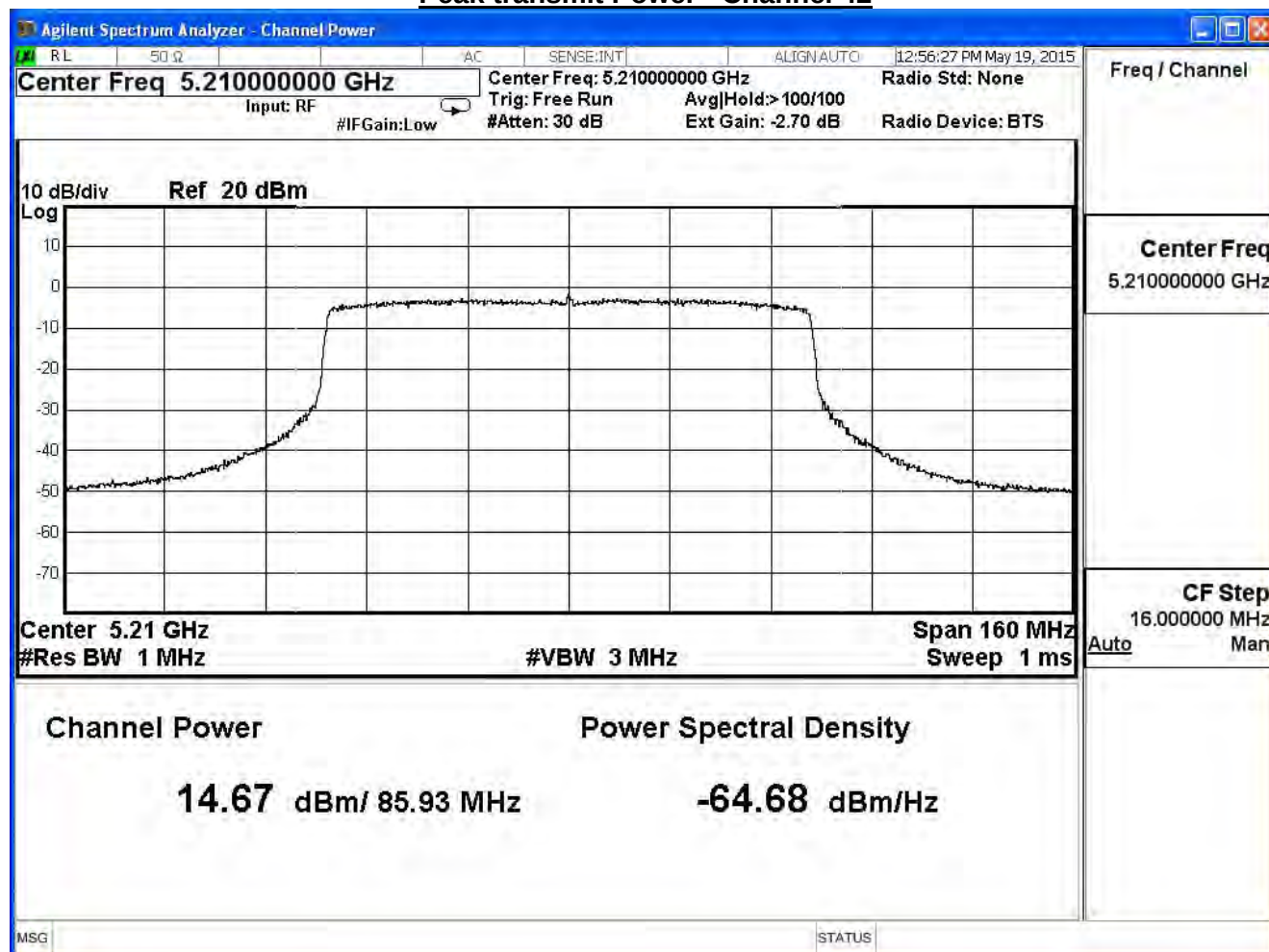
IEEE 802.11ac (80MHz) (ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
42	5210	85.66	14.67	≤30	Pass

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
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	14.67	14.57	14.47	14.27	14.17	13.97	13.85	13.61	13.37	13.25

Peak transmit Power - Channel 42



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

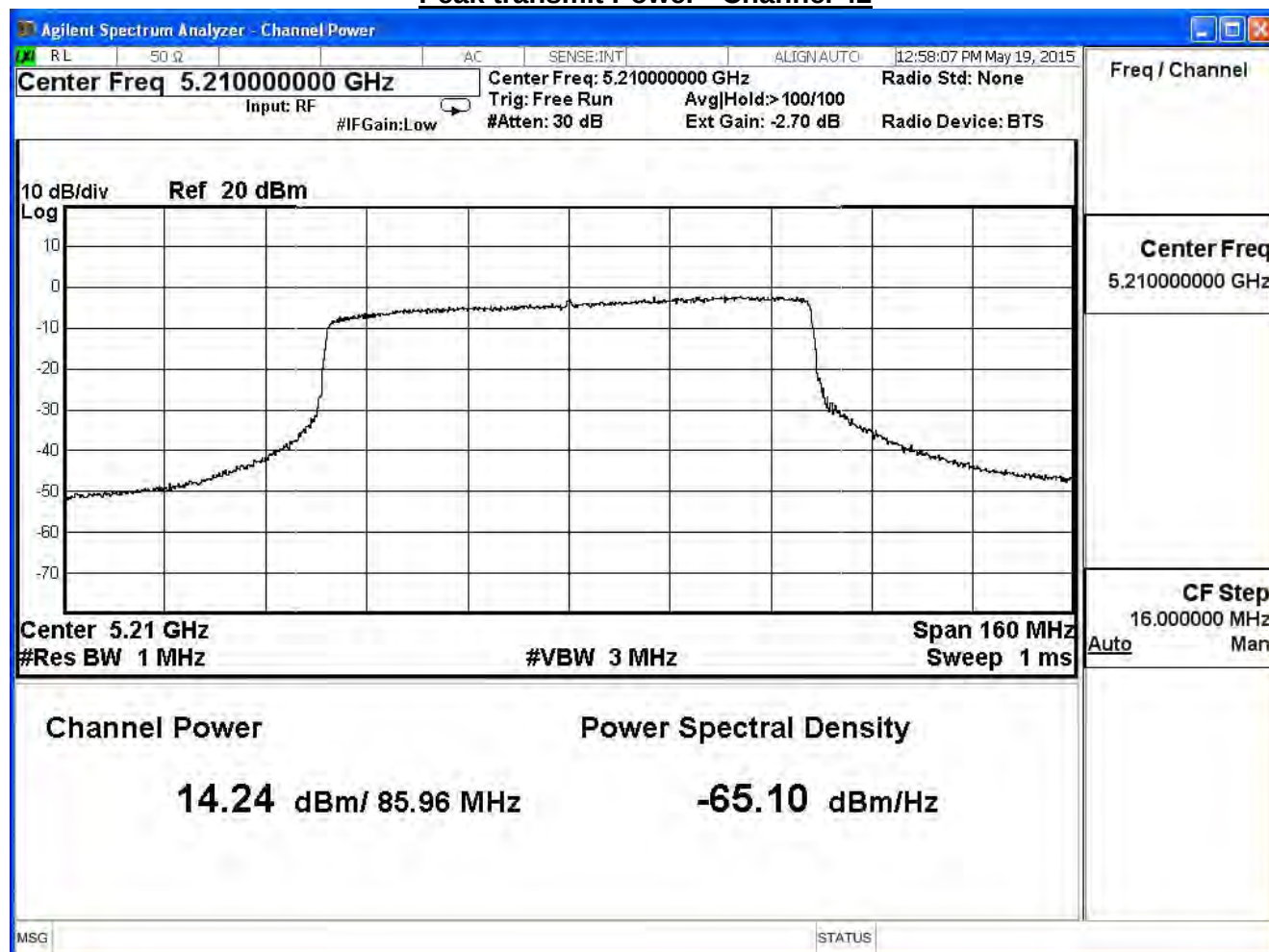
IEEE 802.11ac (80MHz) (ANT 2)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
42	5210	84.45	14.24	≤30	Pass

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
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	14.24	14.04	13.94	13.74	13.54	13.34	13.10	12.98	12.74	12.50

Peak transmit Power - Channel 42



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 0+1+2)					
Channel No.	Frequency (MHz)	Output Power (mW)	Output Power (dBm)	Required Limit	Result
42	5210	60.66	19.26	≤30	Pass

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	19.26	19.09	18.99	18.83	18.66	18.46	18.27	18.06	17.86	17.67

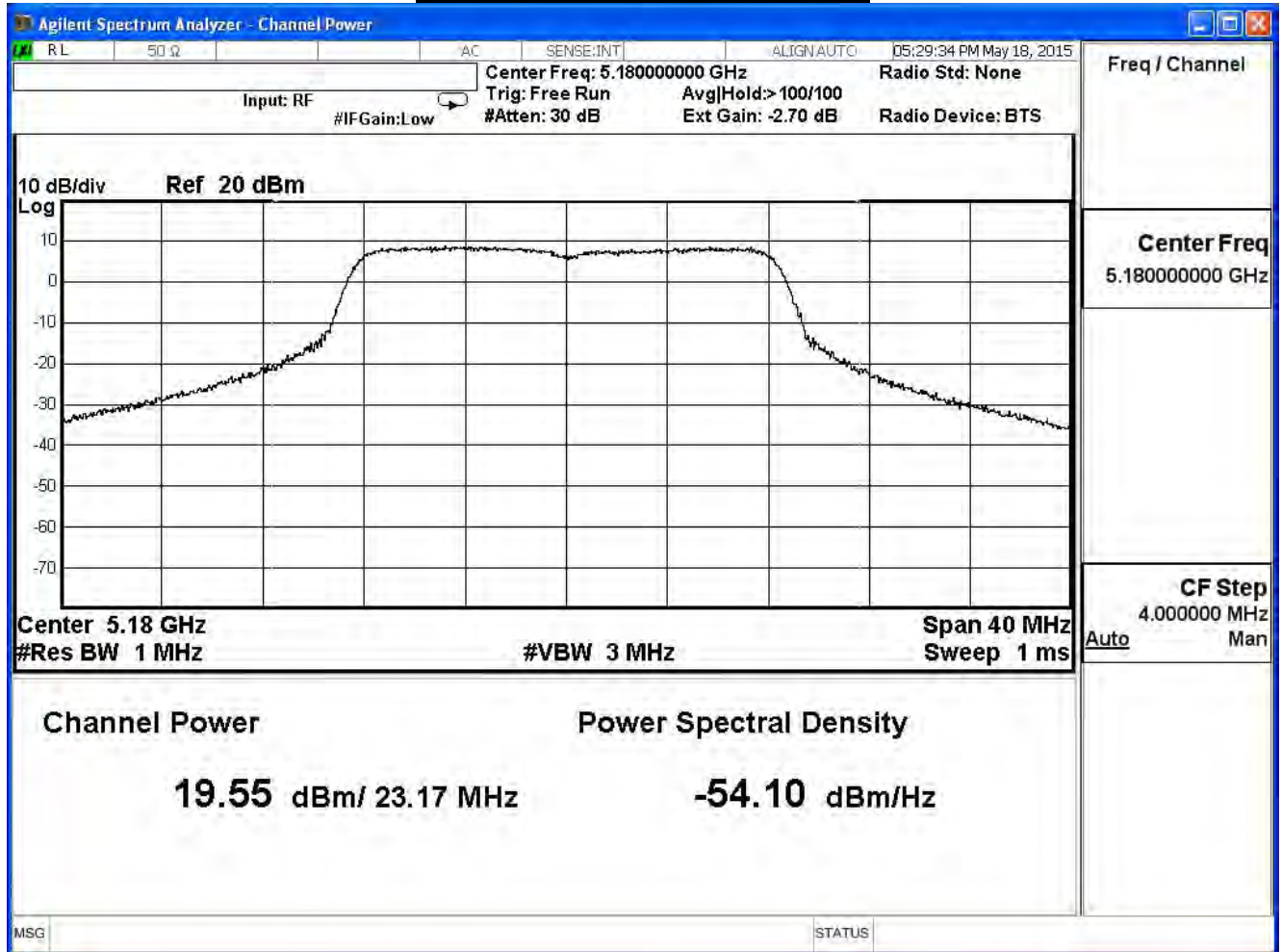
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	23.17	19.55	≤30	Pass
44	5220	22.18	19.44	≤30	Pass
48	5240	22.72	19.56	≤30	Pass

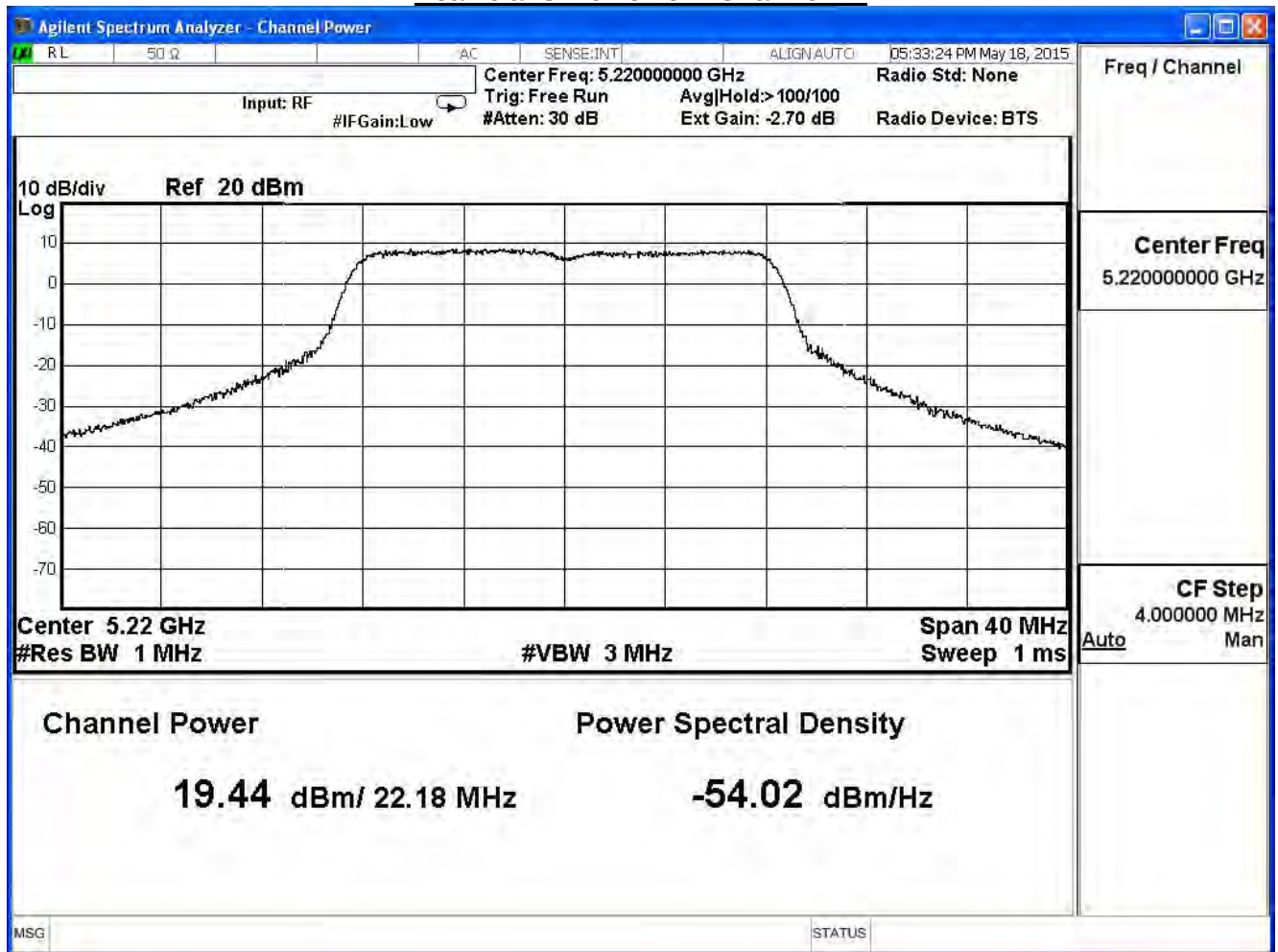
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.55	--	--	--	--	--	--	30dBm
44	5220	19.44	19.24	19.14	18.94	18.84	18.72	18.48	
48	5240	19.56	--	--	--	--	--	--	

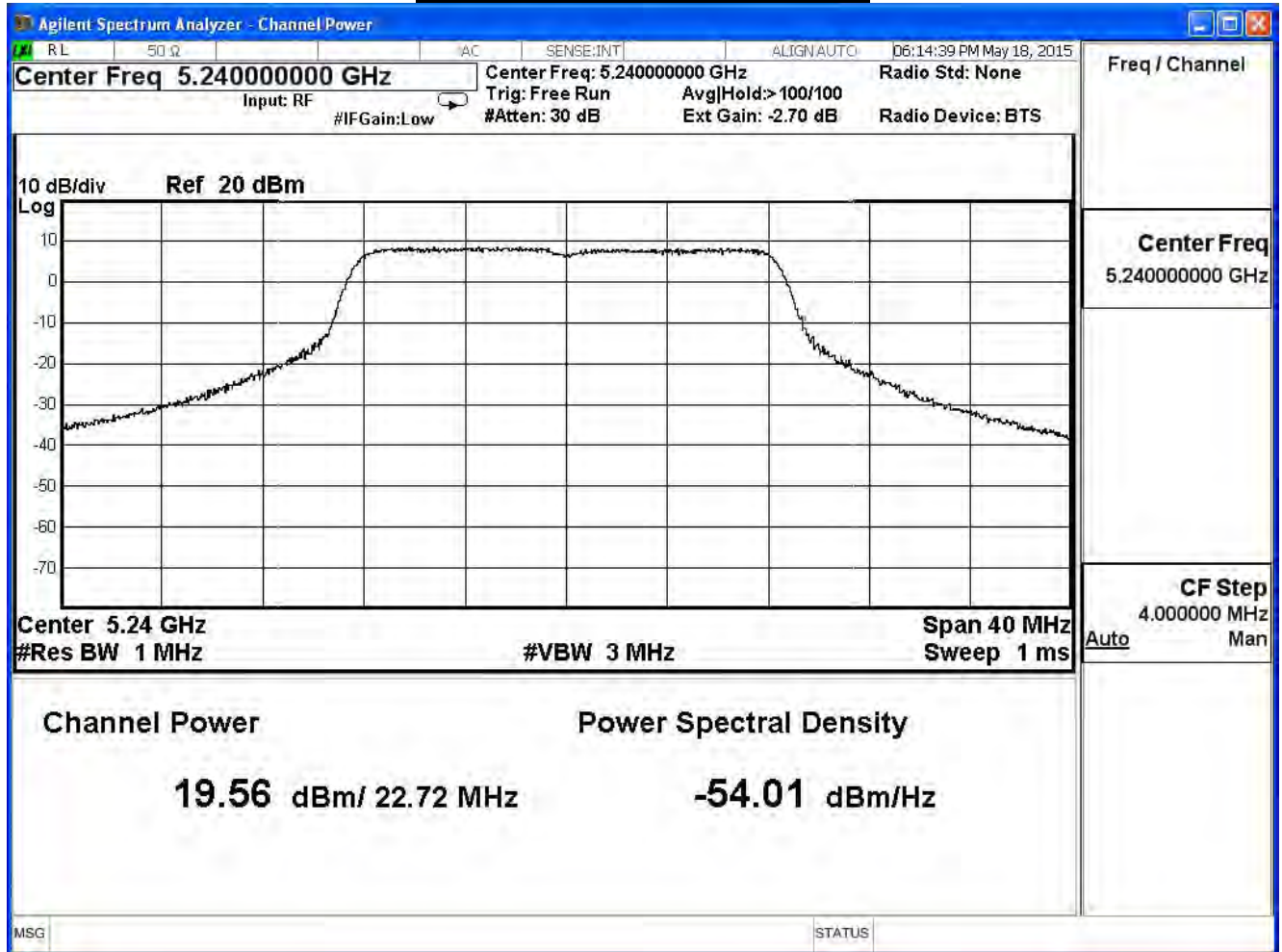
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



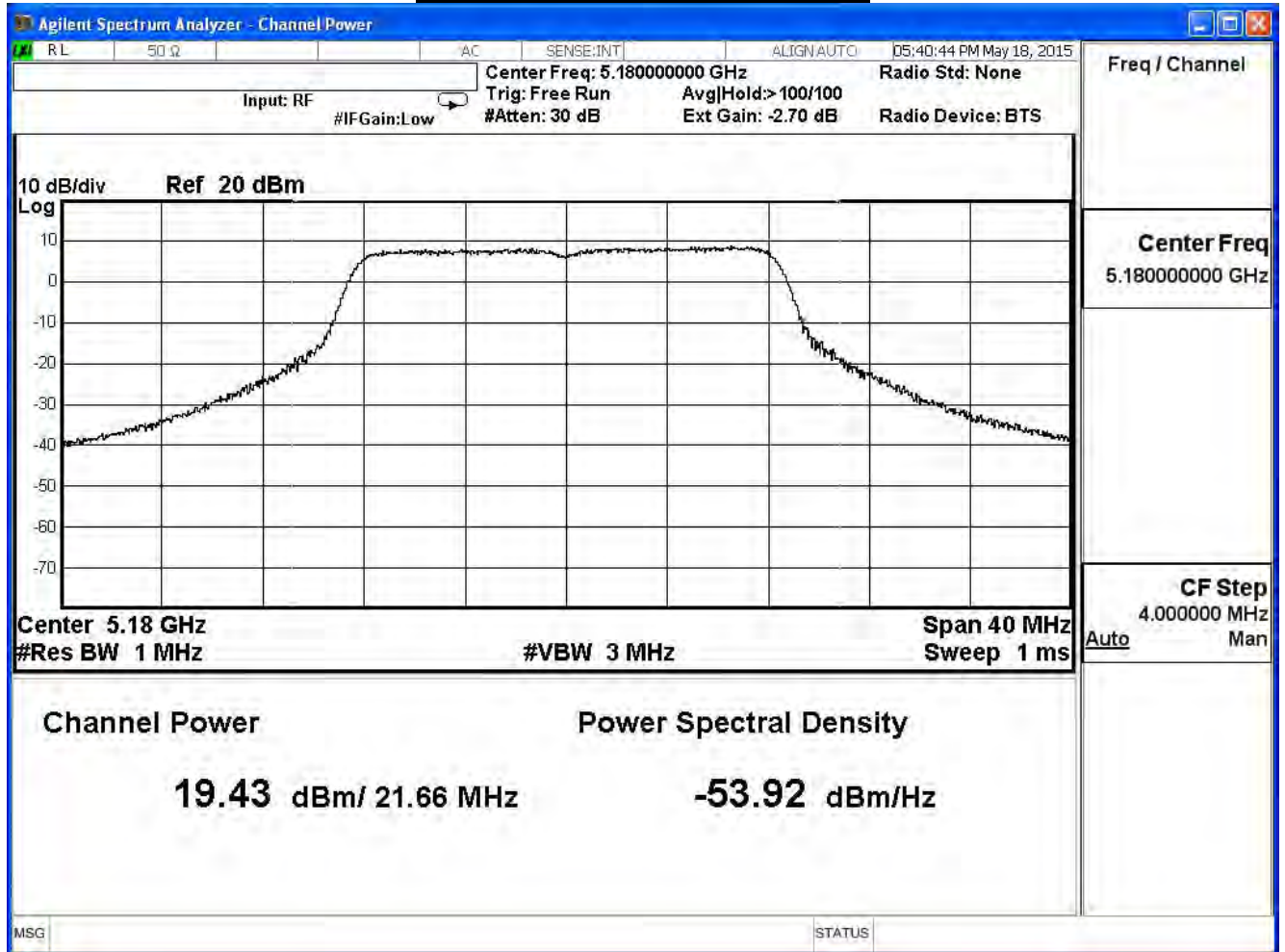
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	21.66	19.43	≤30	Pass
44	5220	22.22	19.87	≤30	Pass
48	5240	22.41	20.27	≤30	Pass

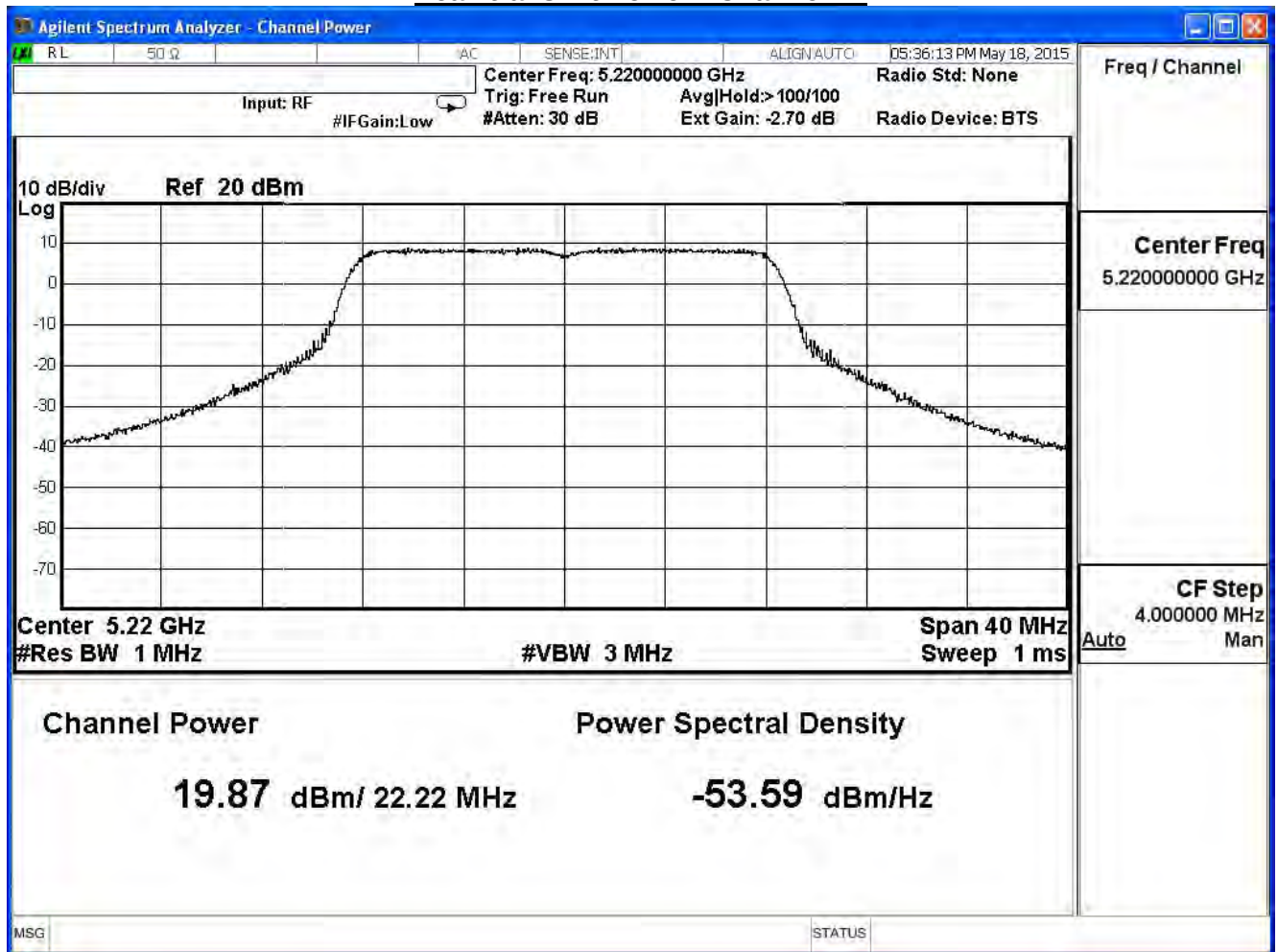
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.43	--	--	--	--	--	--	30dBm
44	5220	19.87	19.67	19.57	19.47	19.37	19.25	19.01	
48	5240	20.27	--	--	--	--	--	--	

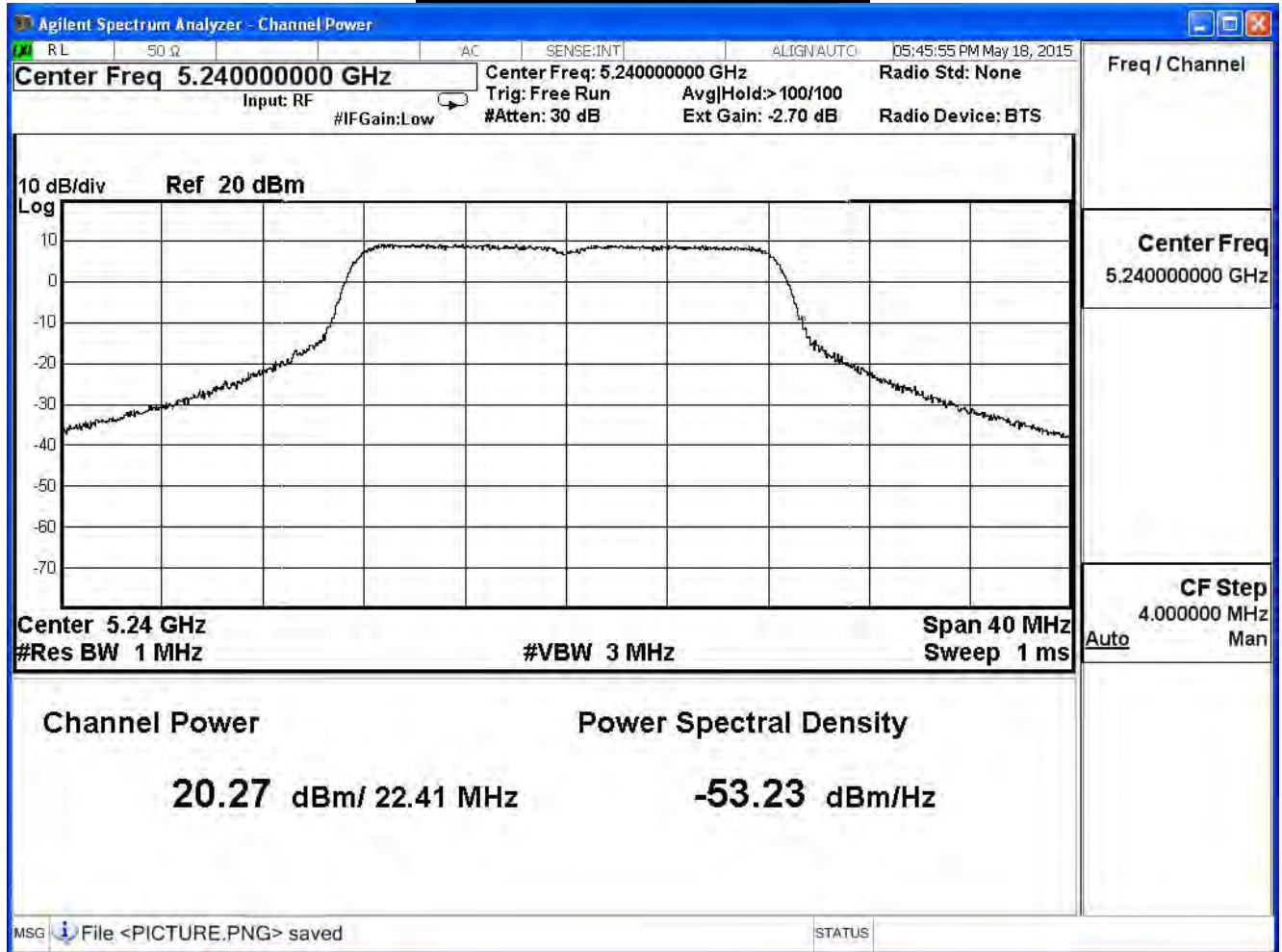
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



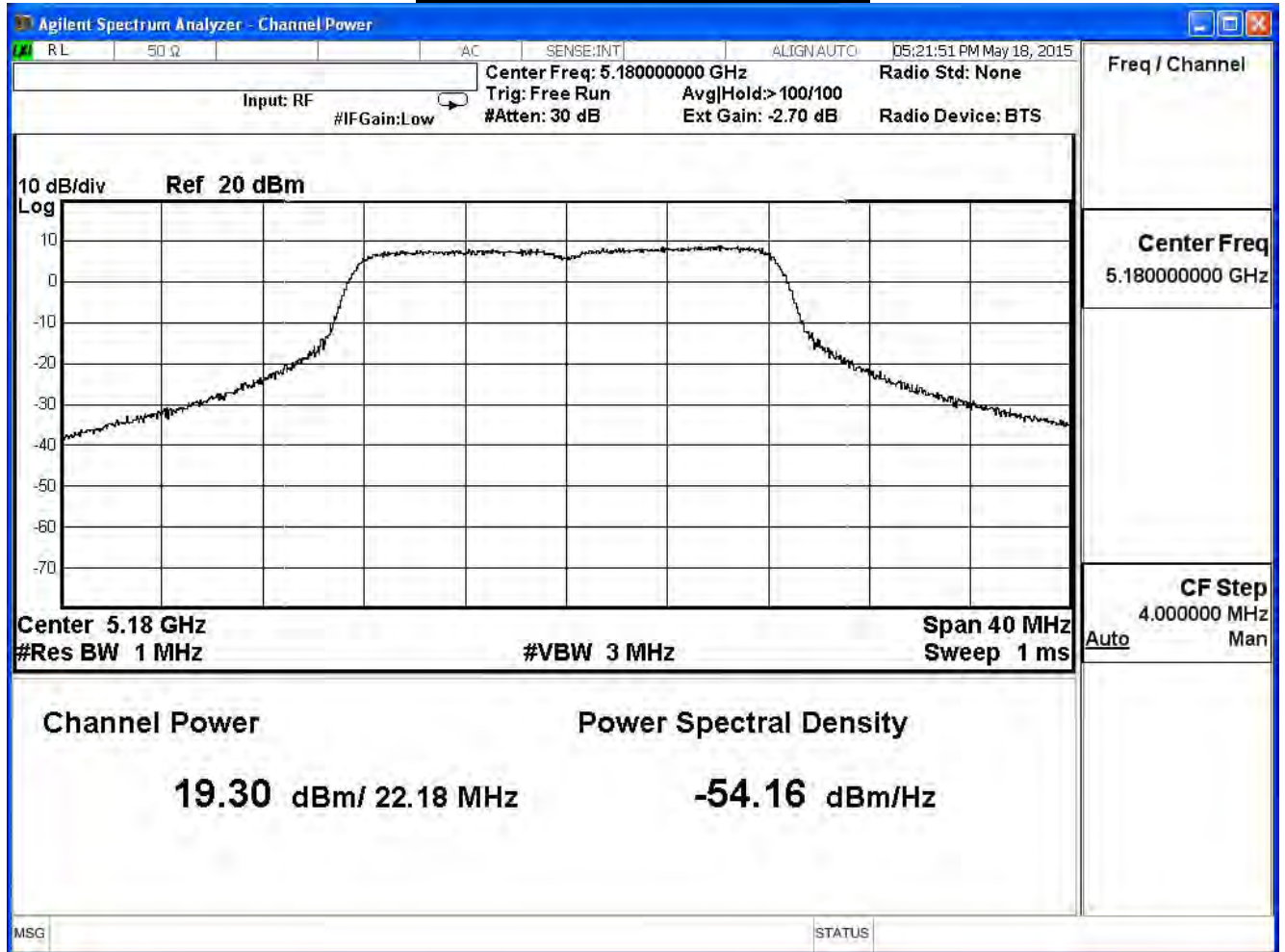
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 2)					
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	22.18	19.30	≤30	Pass
44	5220	22.19	19.38	≤30	Pass
48	5240	22.50	19.63	≤30	Pass

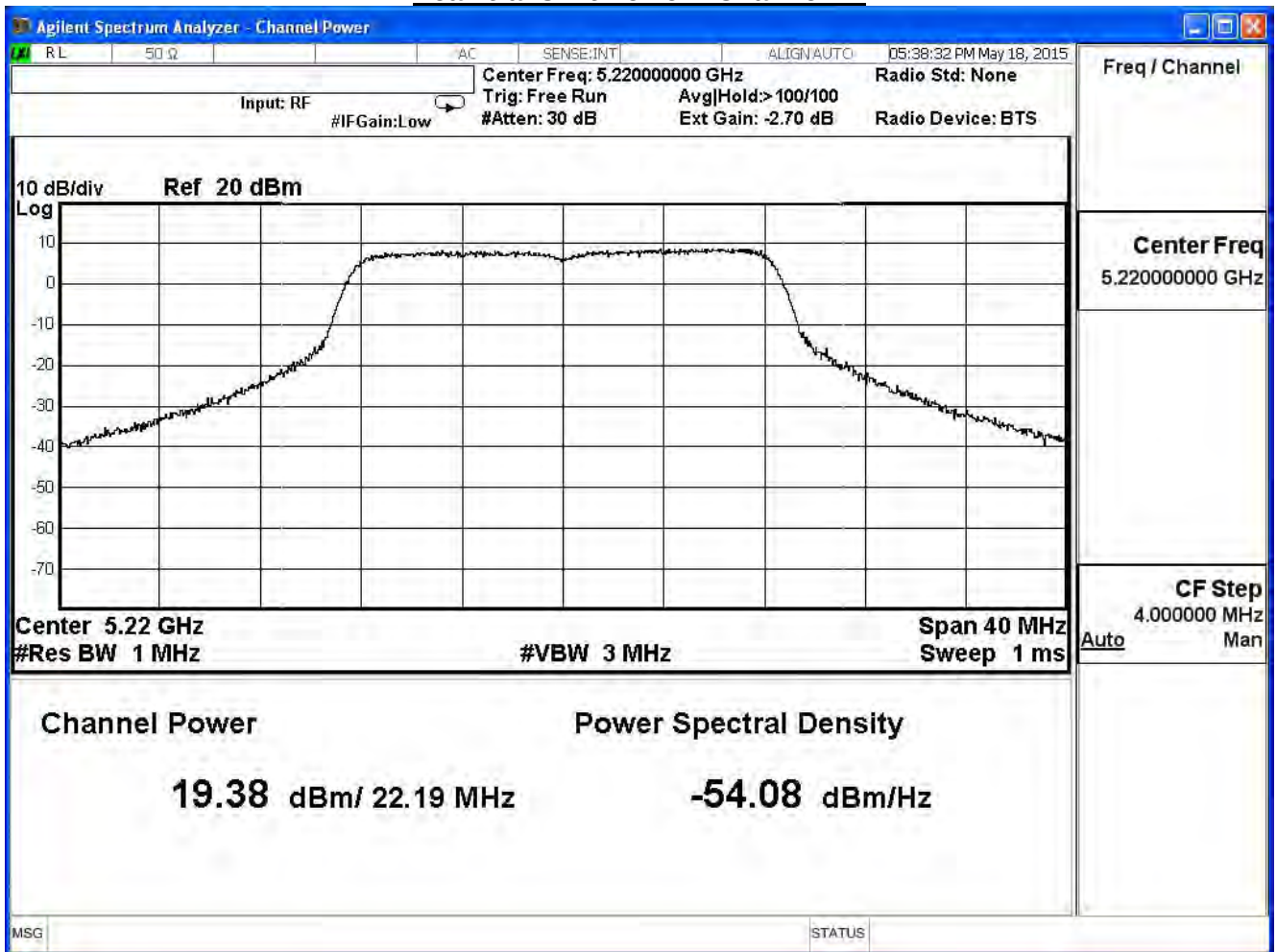
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.30	--	--	--	--	--	--	30dBm
44	5220	19.38	19.28	19.08	18.88	18.78	18.66	18.42	
48	5240	19.63	--	--	--	--	--	--	

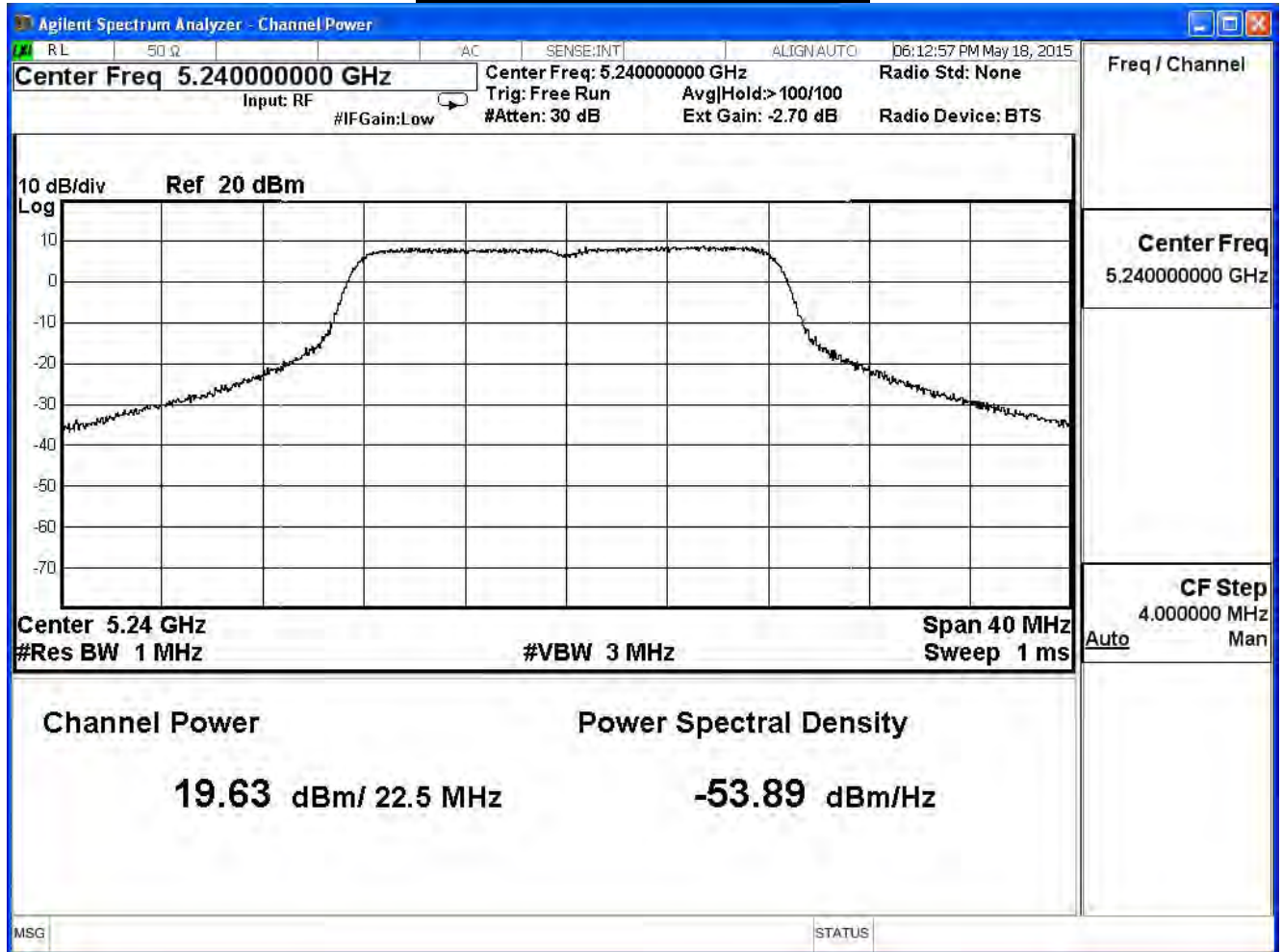
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/19	Test Site	SR7

802.11a (ANT 0+1+2)					
Channel No.	Frequency (MHz)	Output Power (mW)	Output Power (dBm)	Required Limit	Result
36	5180	262.97	24.20	≤30	Pass
44	5220	271.65	24.34	≤30	Pass
48	5240	288.61	24.60	≤30	Pass

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	24.20	--	--	--	--	--	--	30dBm
44	5220	24.34	24.17	24.04	23.88	23.78	23.66	23.42	
48	5240	24.60	--	--	--	--	--	--	