FCC Test Report

Product Name	：	Mimosa C5c
Trade Name	：	mimosa
Model No.	：	C5c
FCC ID.	：	2ABZJ-100-00018

Applicant	：	Mimosa Networks
Address	：	469 El Camino Real, Suite 100 Santa Clara, CA 95050, USA

Date of Receipt	：	Jan. 03, 2017
Issued Date	：	Feb. 21, 2017
Report No.	：	1710110R-RFUSP58V00
Report Version	：	V1.0

ilac-MRA

TAF
Testing Laboratory
3024

Test Report Certification

Issued Date: Feb. 21, 2017
Report No. : 1710110R-RFUSP58V00

Product Name	:	Mimosa C5c
Applicant	:	Mimosa Networks
Address	:	469 El Camino Real, Suite 100 Santa Clara, CA 95050, USA
Manufacturer	:	Lite-On Network Communication (Dongguan) Limited
Model No.	:	C5c
FCC ID.	:	2ABZJ-100-00018
EUT Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/ 60Hz
Trade Name	:	mimosa
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2015 ANSI C63.10: 2013
Test Lab	:	Hsin Chu Laboratory
Test Result	:	Complied

The test results relate only to the samples tested.
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Documented By : (Demi Chang / Senior Engineering Adm. Specialist)

Tested By : (Scott Chang / Assistant Engineer)

Approved By : (Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1710110R-RFUSP58V00	V1.0	Initial issue of report	Feb. 21, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, 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: 834100**
Canada	**:**	**IC, Submission No: 181665** **IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	Mimosa C5c	
Trade Name	mimosa	
Model No.	C5c	
Frequency Range/ Channel Number	IEEE 802.11ac (20MHz)	5180~5240MHz / 4 Channels 5745~5825MHz / 5 Channels
	IEEE 802.11ac (40MHz)	5190~5230MHz / 2 Channels 5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel 5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac

Antenna Information	
Antenna Type	Dish Antenna & Dipole Antenna
Antenna Gain	Dish : 30.25dBi Dipole : 2.5dBi

Accessories Information	
Dish Antenna	Ubiquiti Networks Inc. / RocketDish
Dipole Antenna	WHA YU INDUSTRIAL CO., LTD. / N100-510037-A

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz
IEEE802.11ac	✓	✓	✓

IEEE 802.11ac Data Rate

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

IEEE 802.11ac (20MHz)

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

IEEE 802.11ac (40MHz)

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

IEEE 802.11ac (80MHz)

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

Note:

1. This device is Mimosa C5c including 5GHz ac (2x2) transmitting and receiving function.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. This device is a composite device in accordance with Part 15 regulations. The receiving function was tested and its number is 1710110R-RFUSP01V00
4. The laptop computer was used to configure the EUT to continuously transmit at a specified output power in all channels with different modes and modulation schemes, software index as below.

5.2GHz

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5180	0	0
	5220	3	3
	5240	0	0
802.11ac(40MHz)	5190	0	0
	5230	1	1
802.11ac(80MHz)	5210	3	3

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5180	20	20
	5220	24	24
	5240	24	24
802.11ac(40MHz)	5190	16	16
	5230	22	22
802.11ac(80MHz)	5210	16	16

5.8GHz

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5745	4	4
	5785	4	4
	5825	4	4
802.11ac(40MHz)	5755	4	4
	5795	4	4
802.11ac(80MHz)	5775	4	4

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5745	24	24
	5785	24	24
	5825	24	24
802.11ac(40MHz)	5755	22	22
	5795	23	23
802.11ac(80MHz)	5775	19	19

Test Mode

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

TX	Mode 1: Tx-Dish ANT Mode 2: Tx-Dipole ANT

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

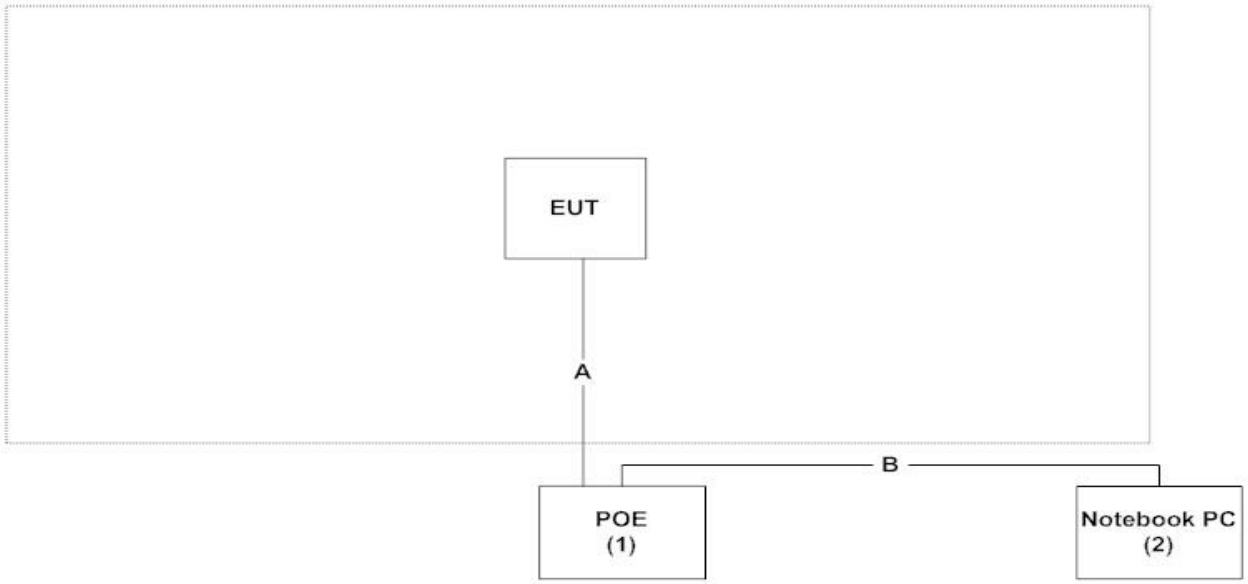
1.2. System Details

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	POE	PHIHONG	POE16R-560Q	N/A	DoC	--
2	Notebook PC	ACER	MS2296	LUSCV021391150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.3. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 2m
B	LAN Cable	Non-Shielded, 2m

1.4. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	The EUT power by the POE and execute the Telnet by the Notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Start the continuous Receiver.
5	Verify that the EUT works properly.

1.5. 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% & DTS 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 Density	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 Frequency Stability	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

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2. Conducted Emission

2.1. Test Equipment

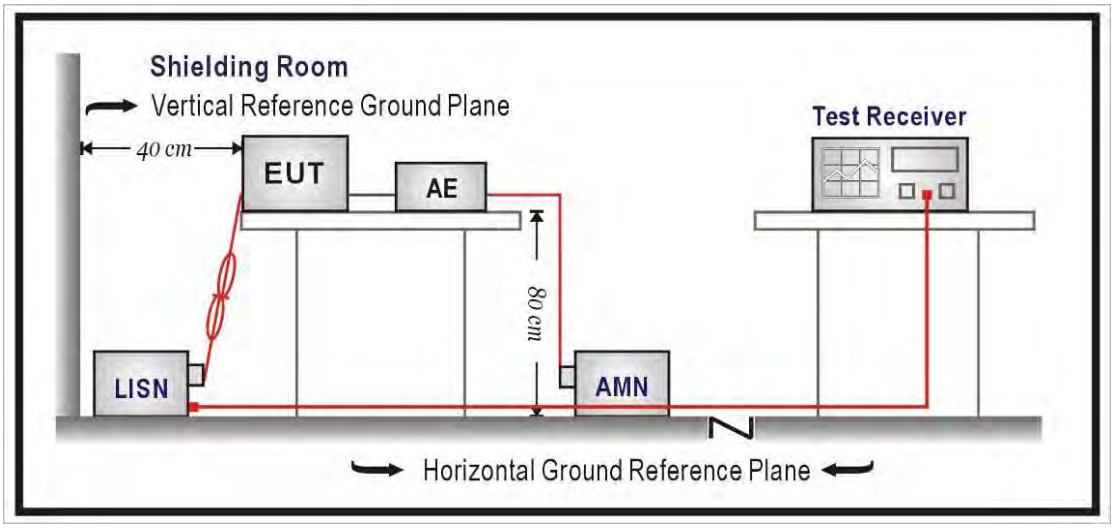
The following test equipments are used during the test:

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/02/05
LISN	R&S	ENV216	100092	2017/08/16
Test Receiver	R&S	ESCS 30	836858/022	2018/01/14

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: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

This conduction does not need testing, since the adapter is not sold with the EUT.

3. 99% & DTS Bandwidth

3.1. Test Equipment

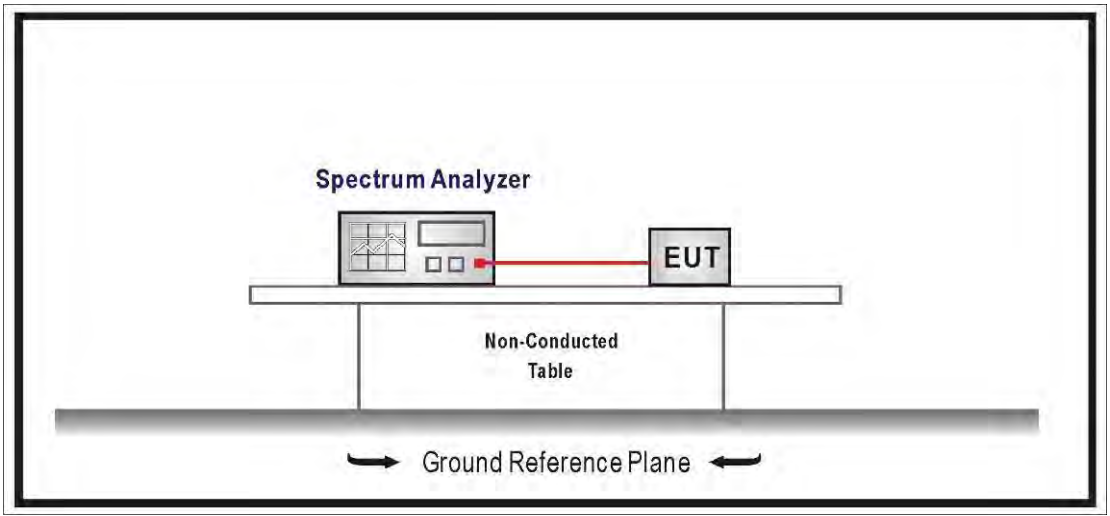
The following test equipments are used during the radiated emission tests:

99% & DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

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

3.2. Test Setup



3.3. Limits

99% Bandwidth : No Required

6dB Bandwidth ≧ 500KHz

3.4. Test Procedure

99% Bandwidth :

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

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

DTS Bandwidth :

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

3.5. Uncertainty

The measurement uncertainty is defined as ±150Hz

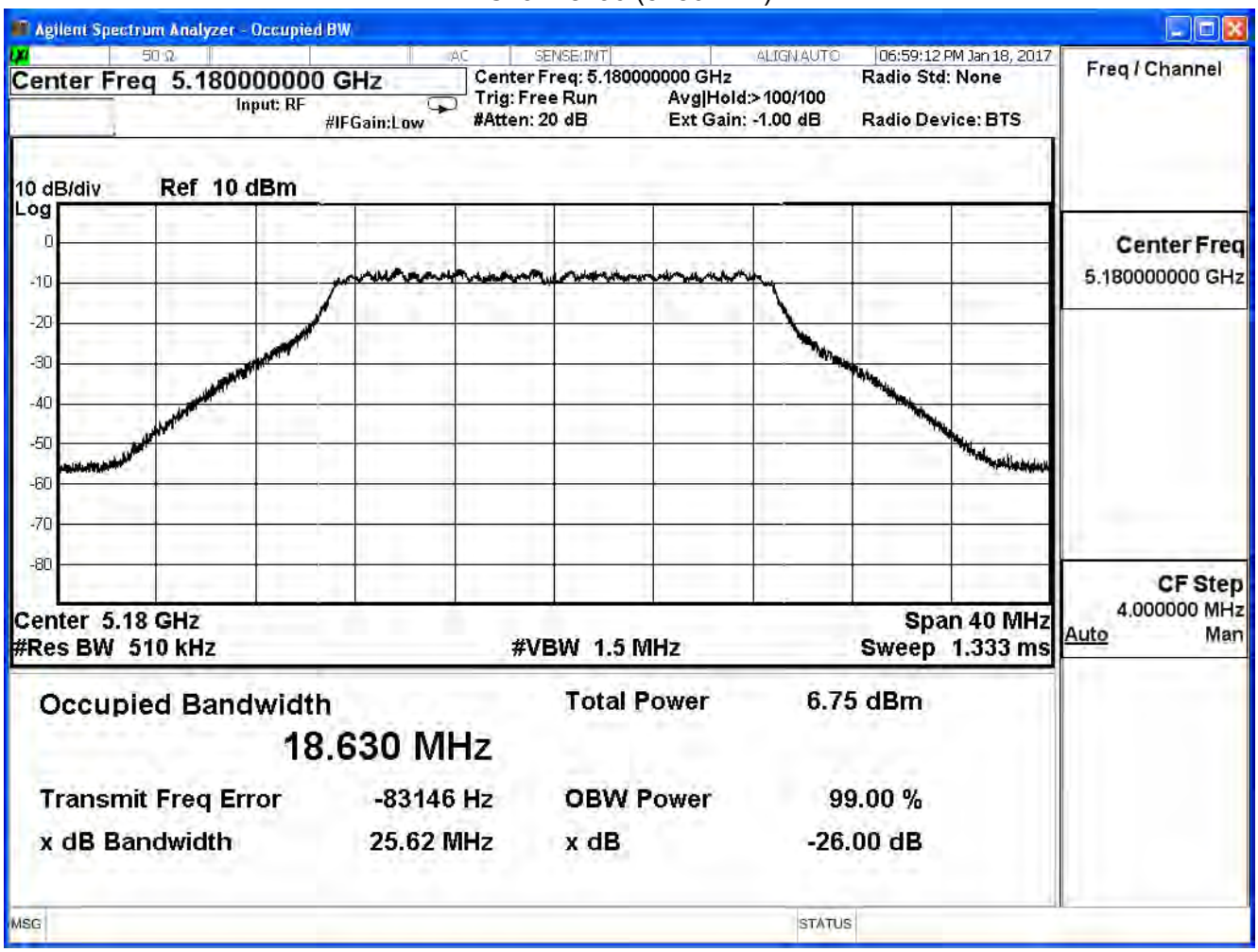
3.6. Test Result

Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

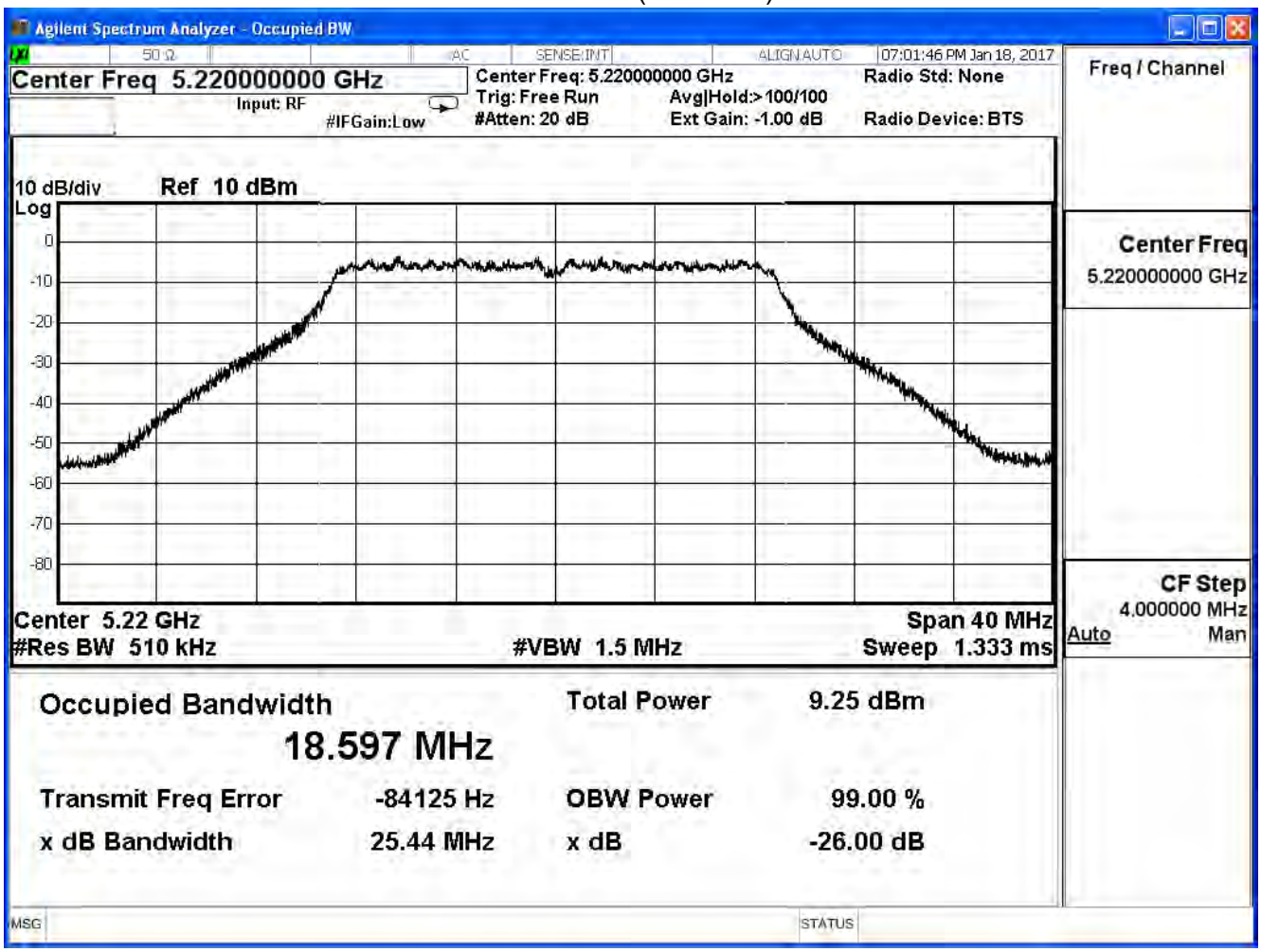
IEEE 802.11ac20 (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
36	5180	25.62	18.63	--
44	5220	25.44	18.60	--
48	5240	25.20	18.50	--

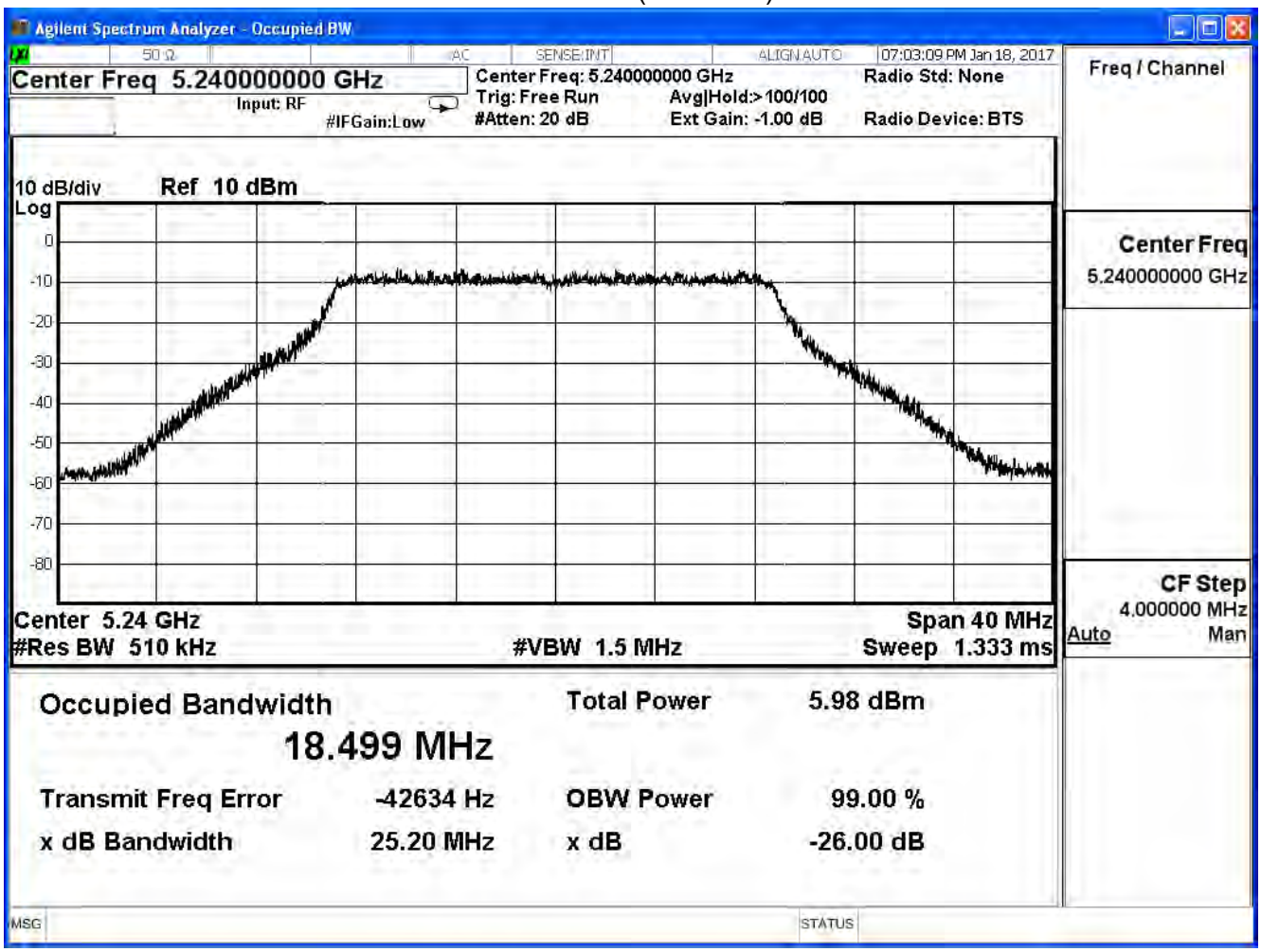
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

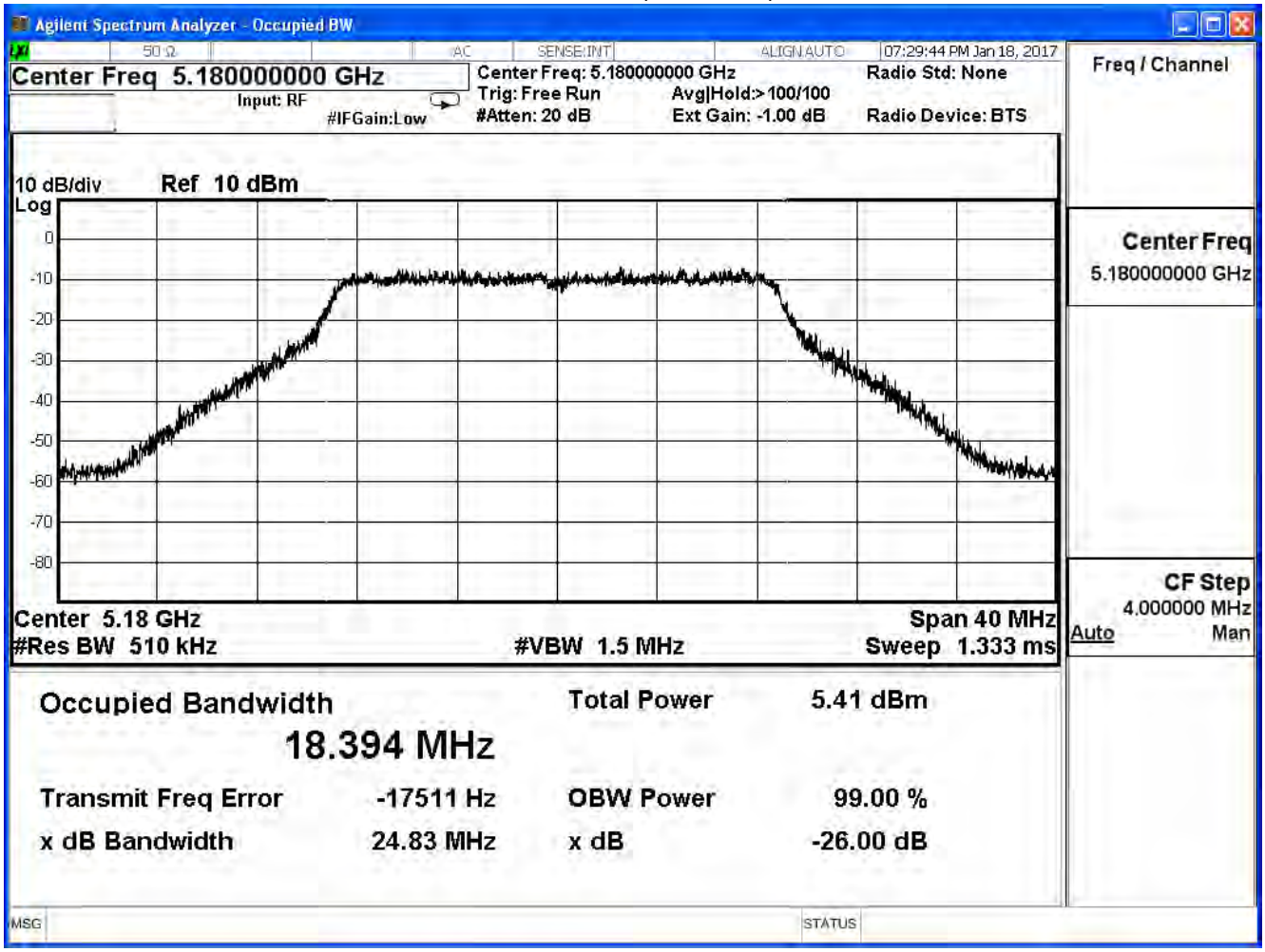


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

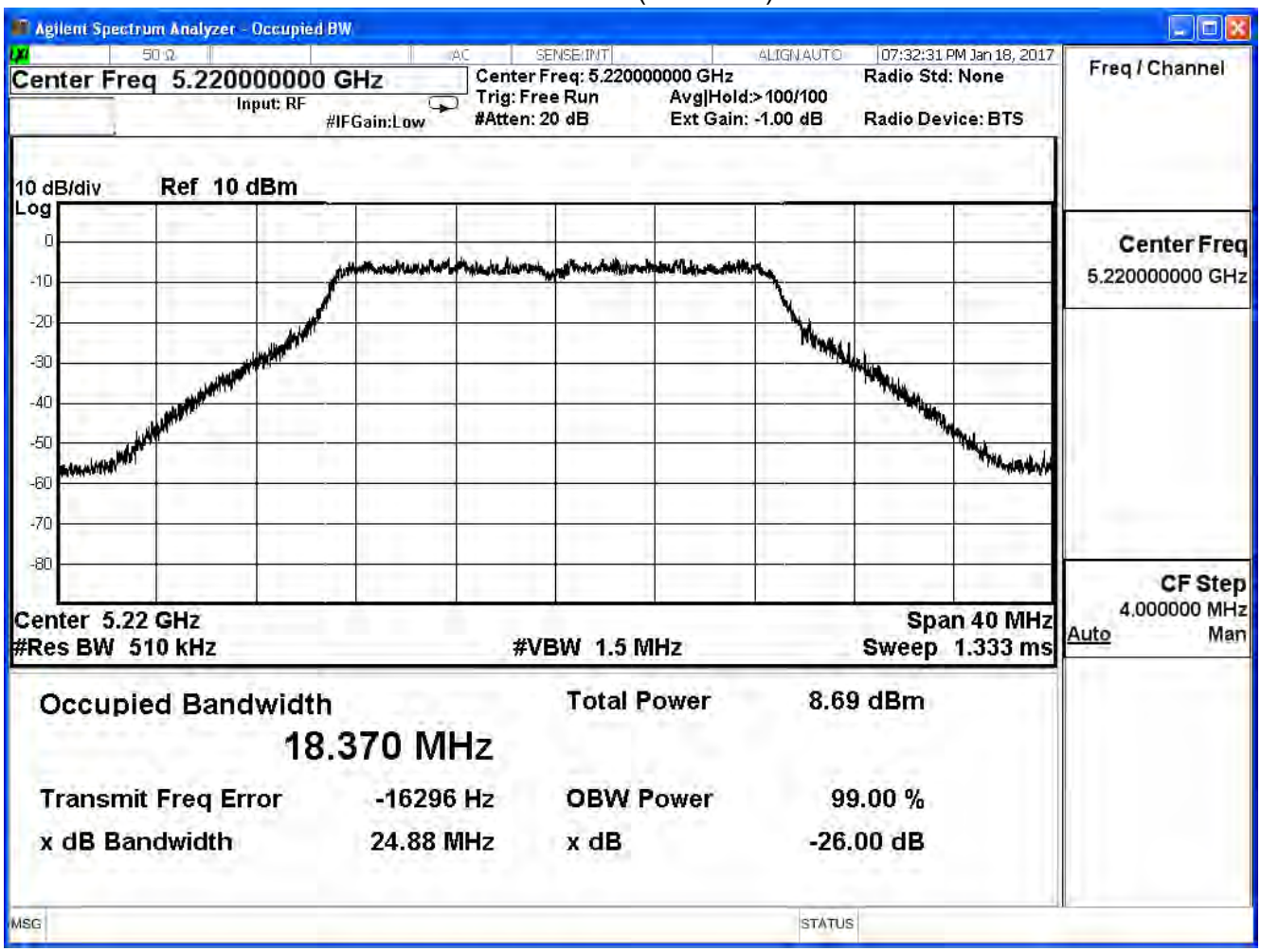
IEEE 802.11ac20 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
36	5180	24.83	18.39	--
44	5220	24.88	18.37	--
48	5240	24.86	18.36	--

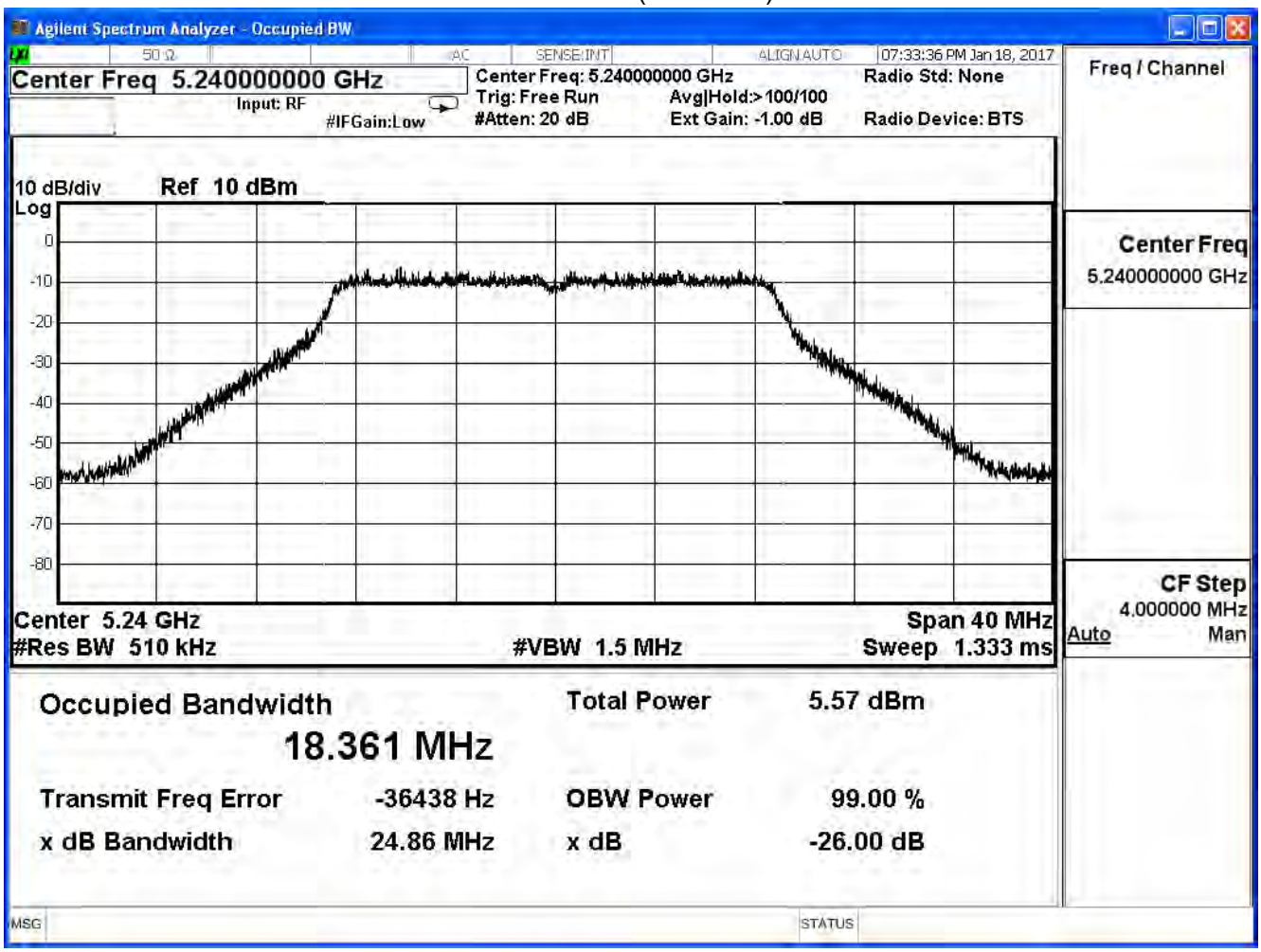
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

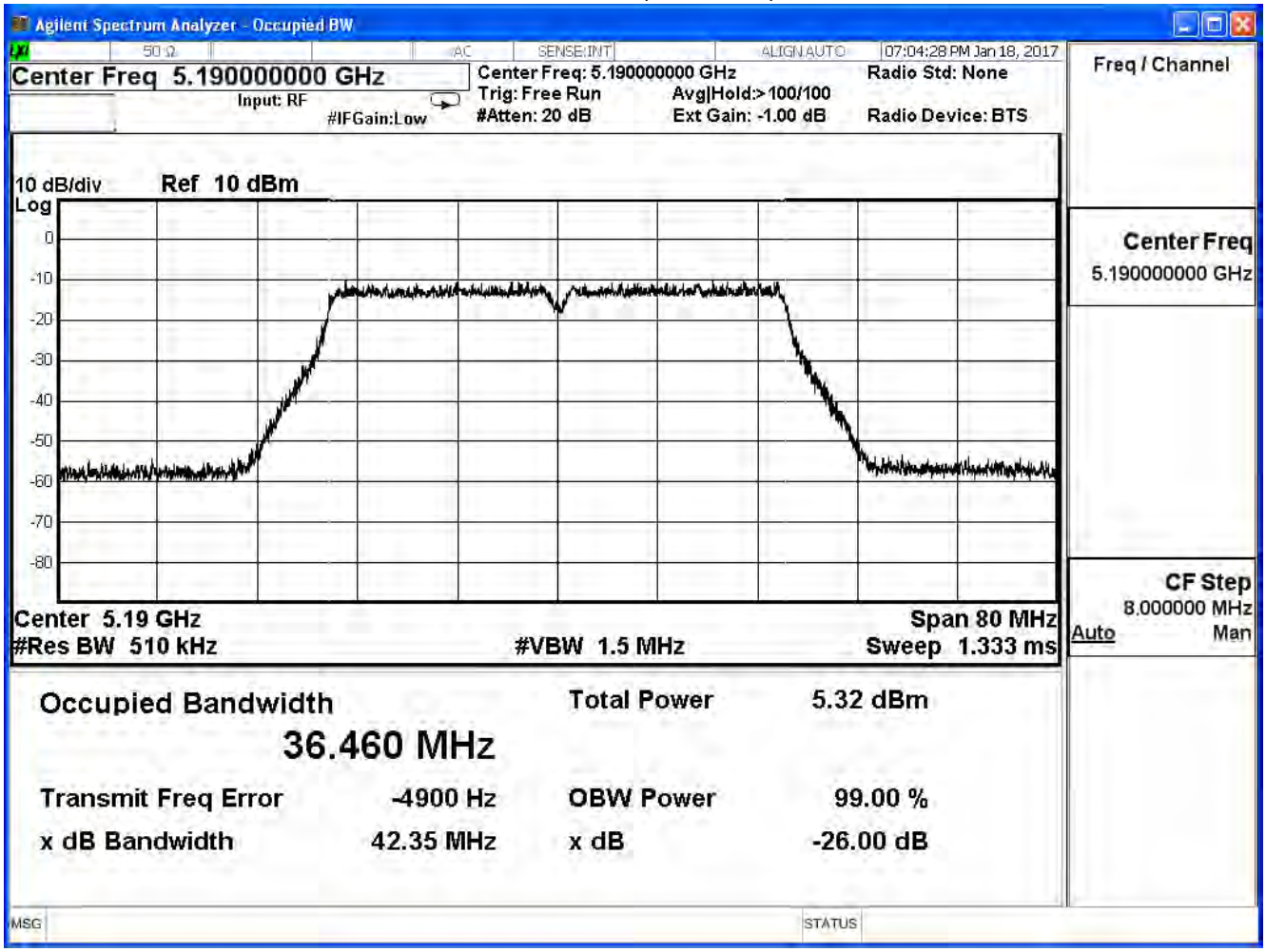


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

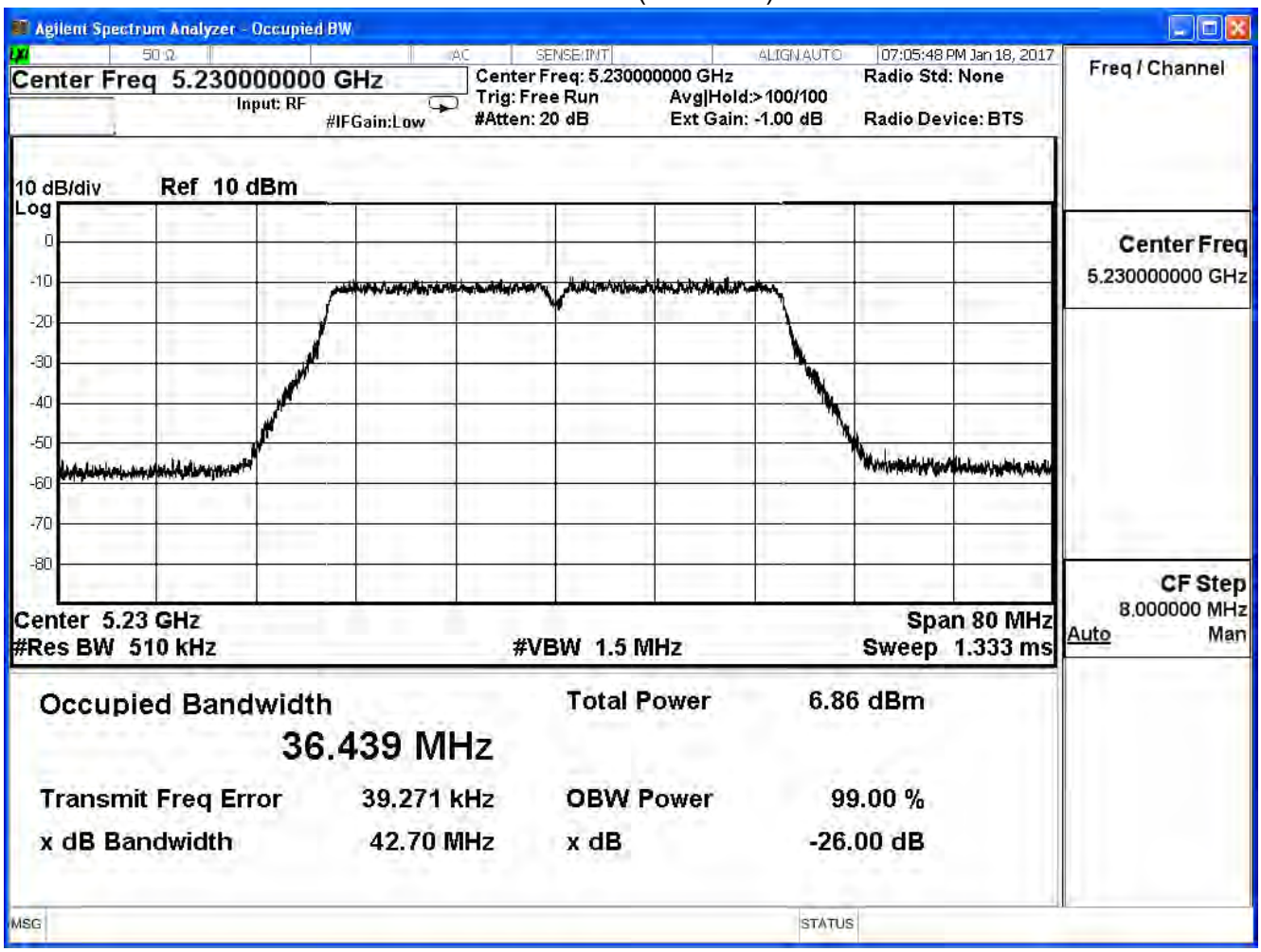
IEEE 802.11ac40 (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
38	5190	42.35	36.46	--
46	5230	42.70	36.44	--

Channel 38 (5190MHz)



Channel 46 (5230MHz)

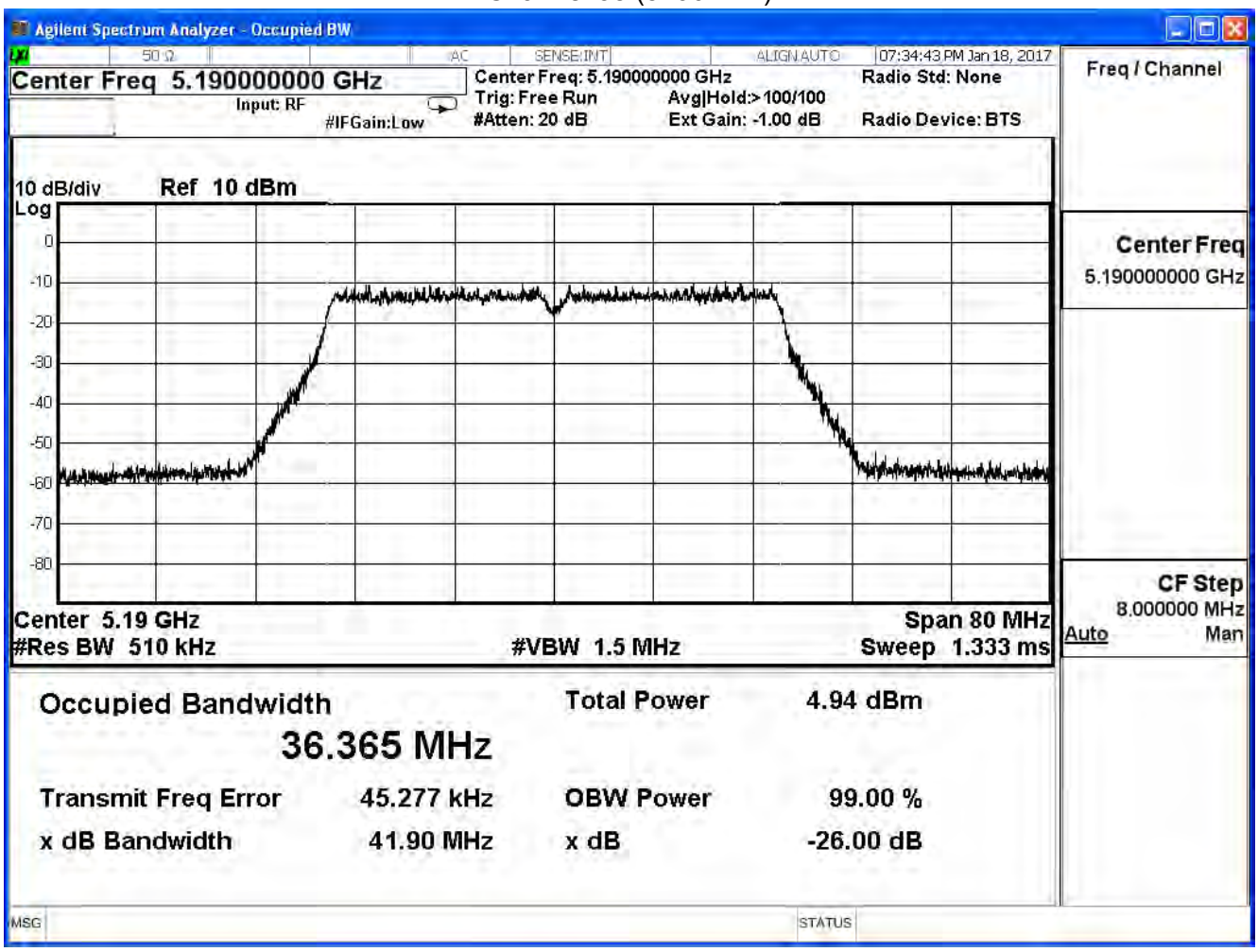


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

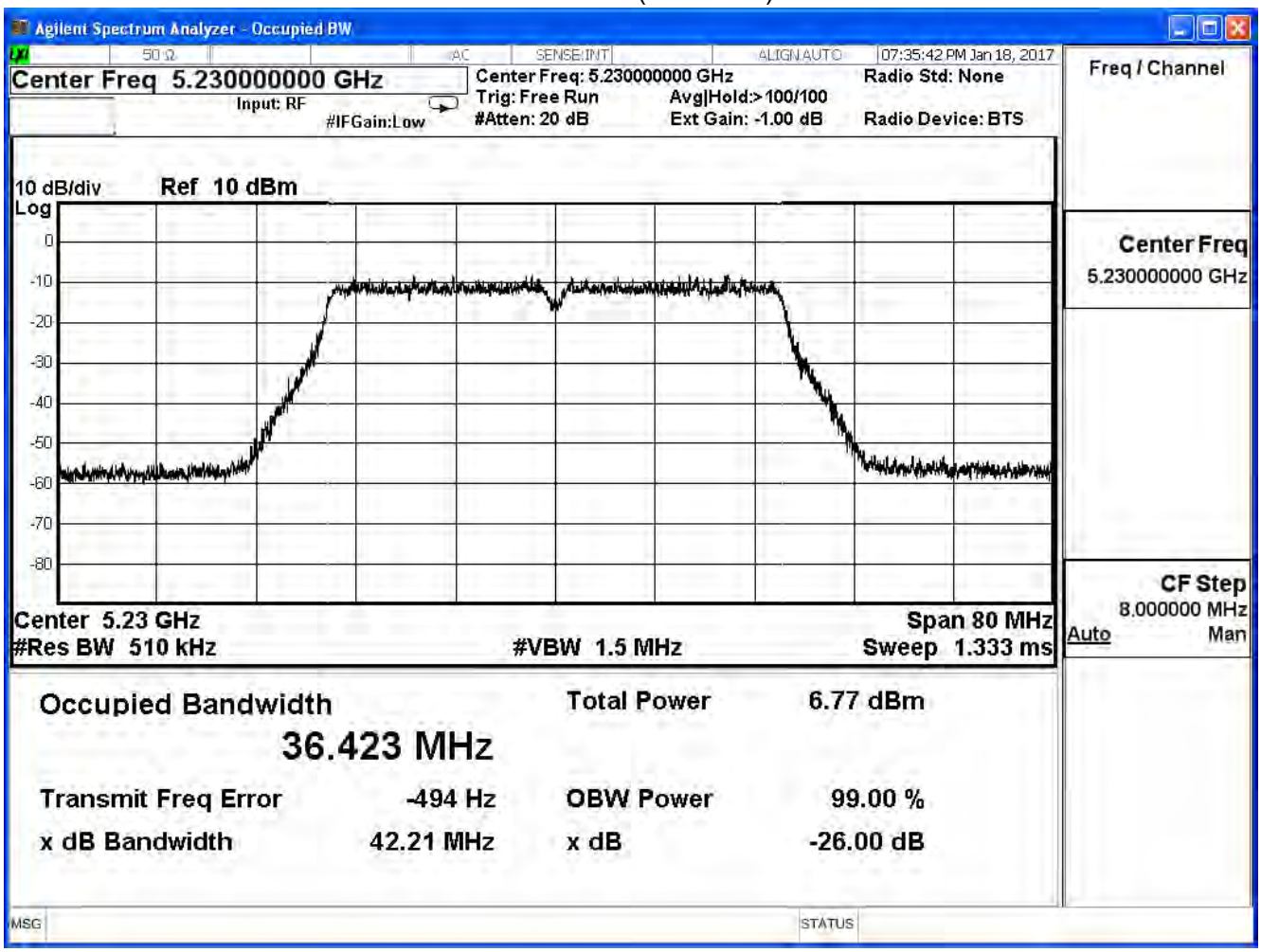
IEEE 802.11ac40 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
38	5190	41.90	36.37	--
46	5230	42.21	36.42	--

Channel 38 (5190MHz)



Channel 46 (5230MHz)

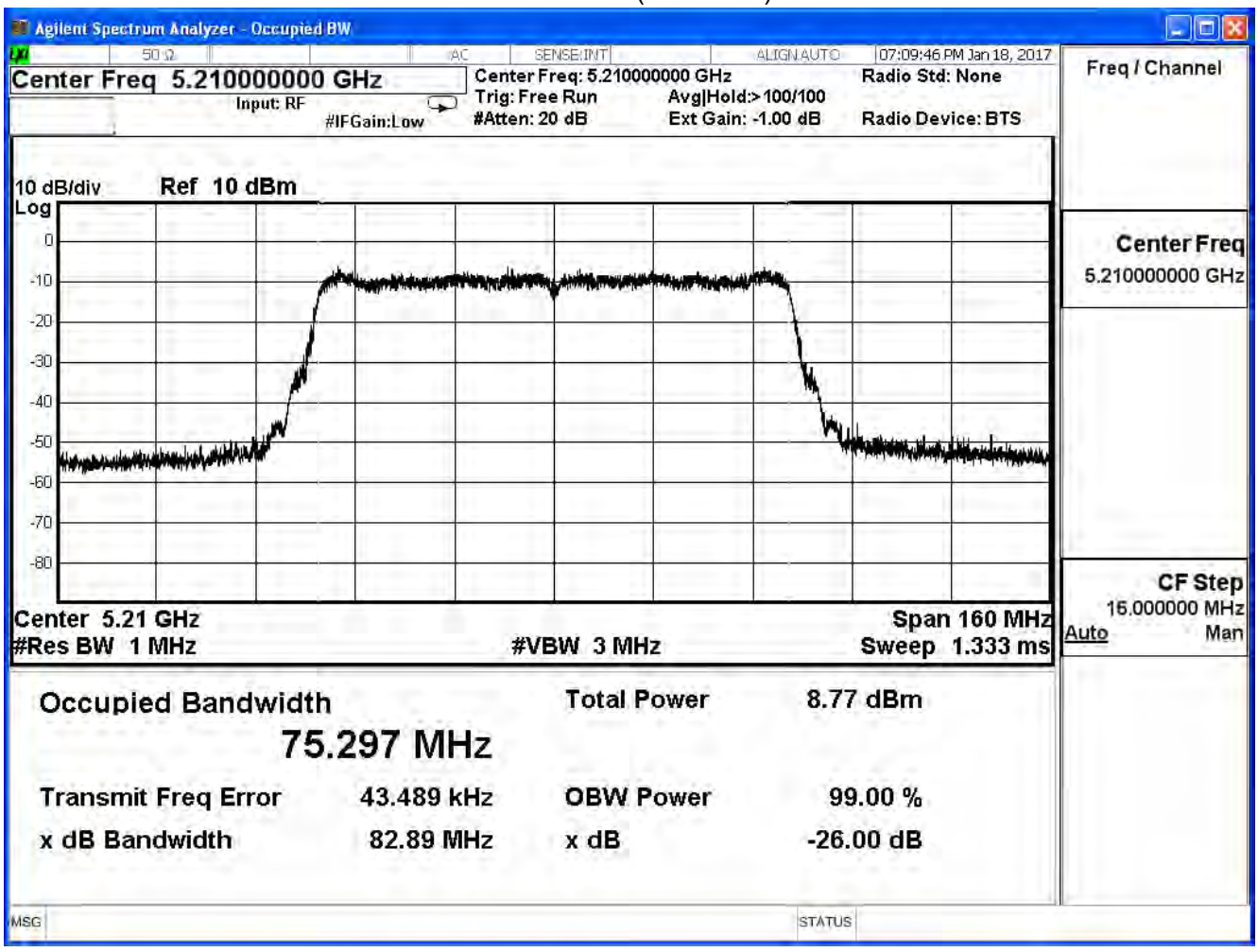


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
42	5210	82.89	75.30	--

Channel 42 (5210MHz)

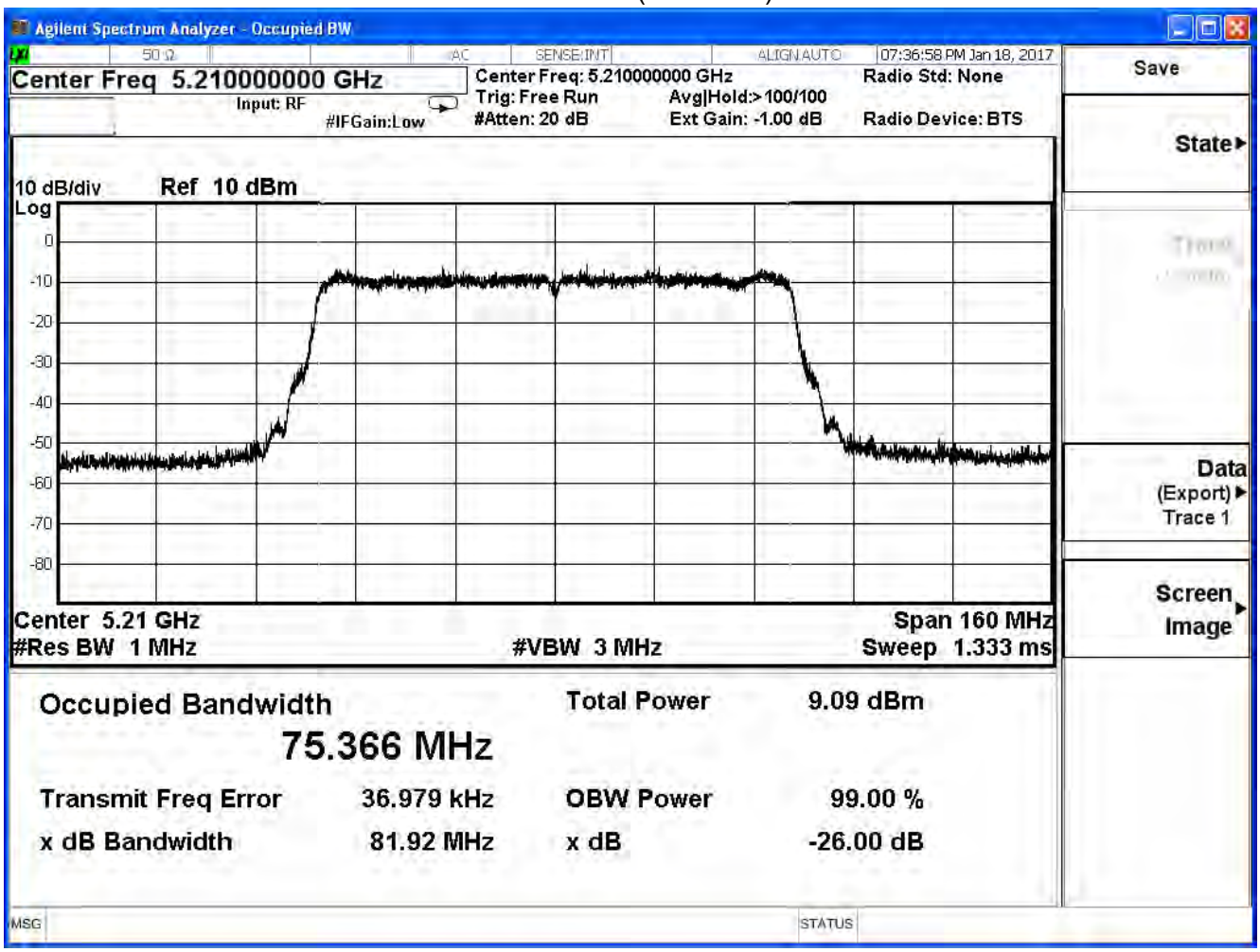


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
42	5210	81.92	75.37	--

Channel 42 (5210MHz)

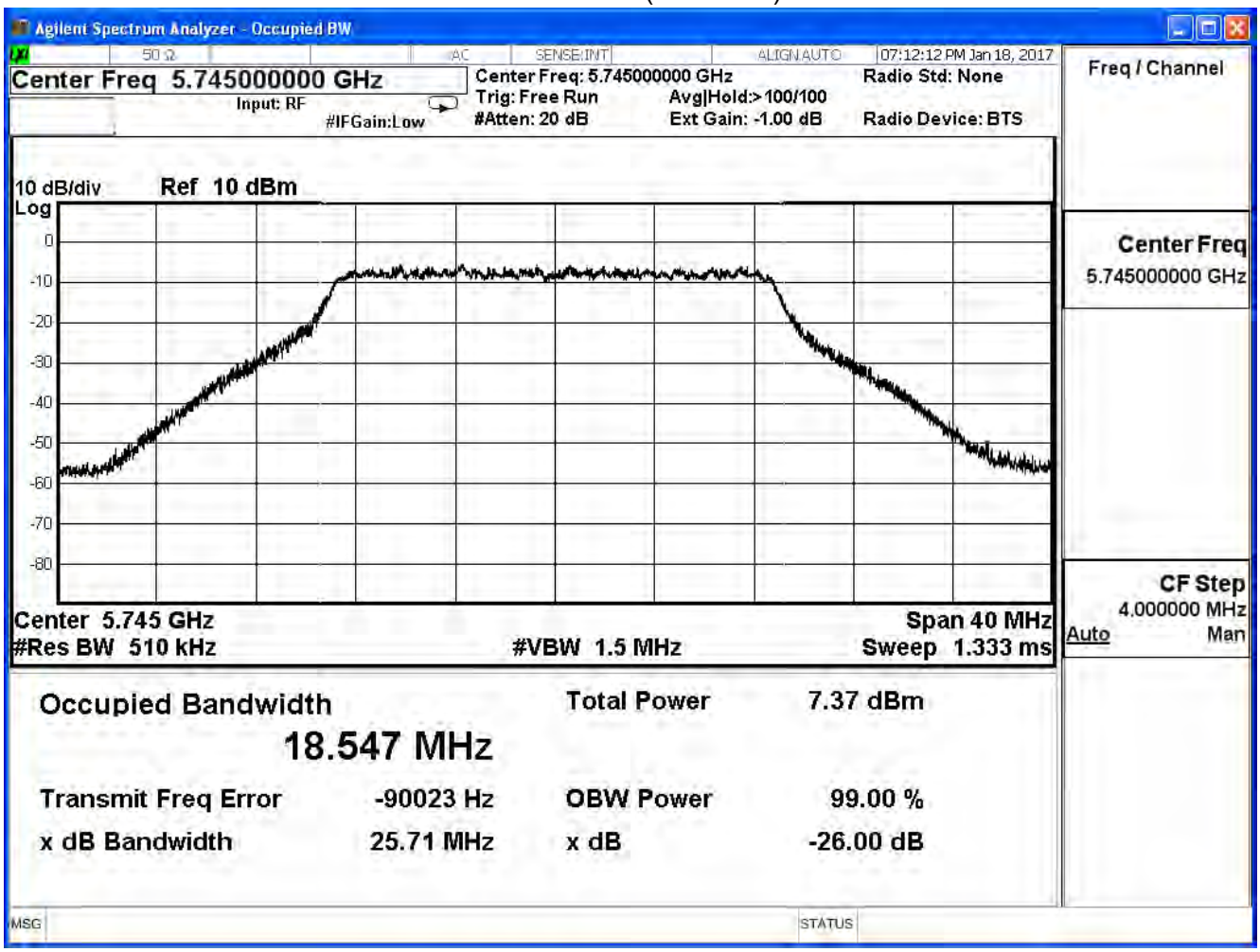


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

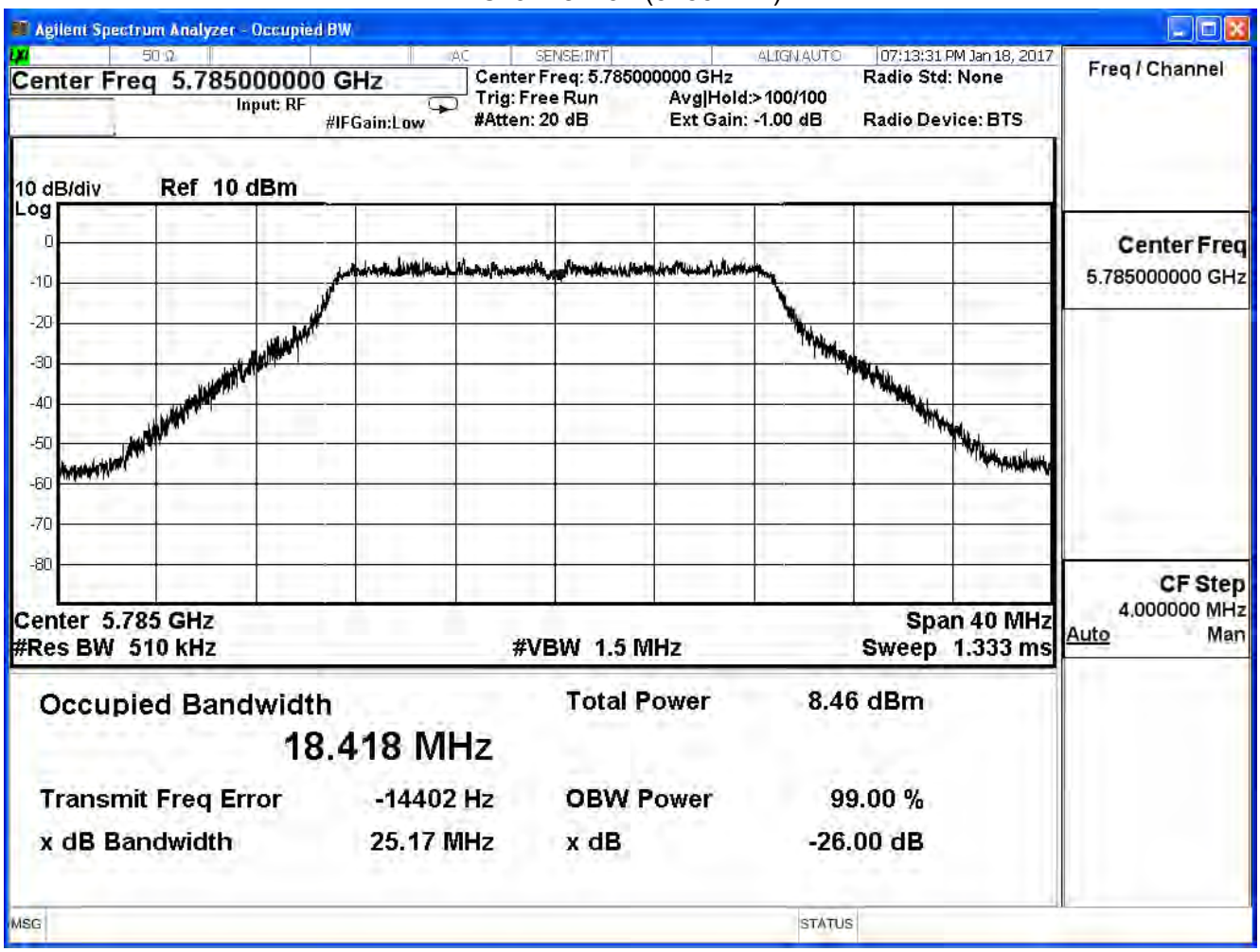
IEEE 802.11ac20 (ANT 0) (Gain 30.25dBi)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
149	5745	25.71	18.55	--
157	5785	25.17	18.42	--
165	5825	25.14	18.42	--

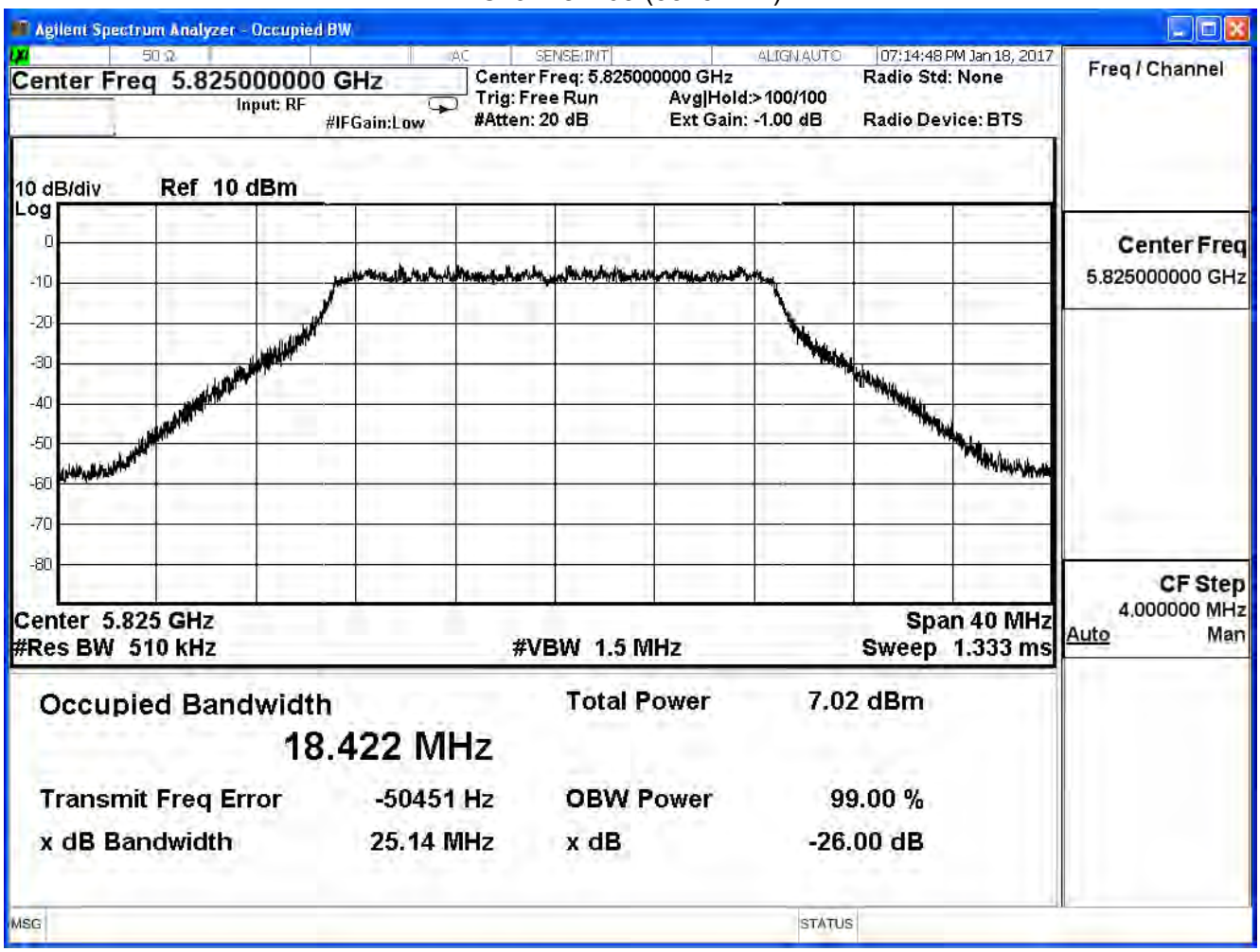
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

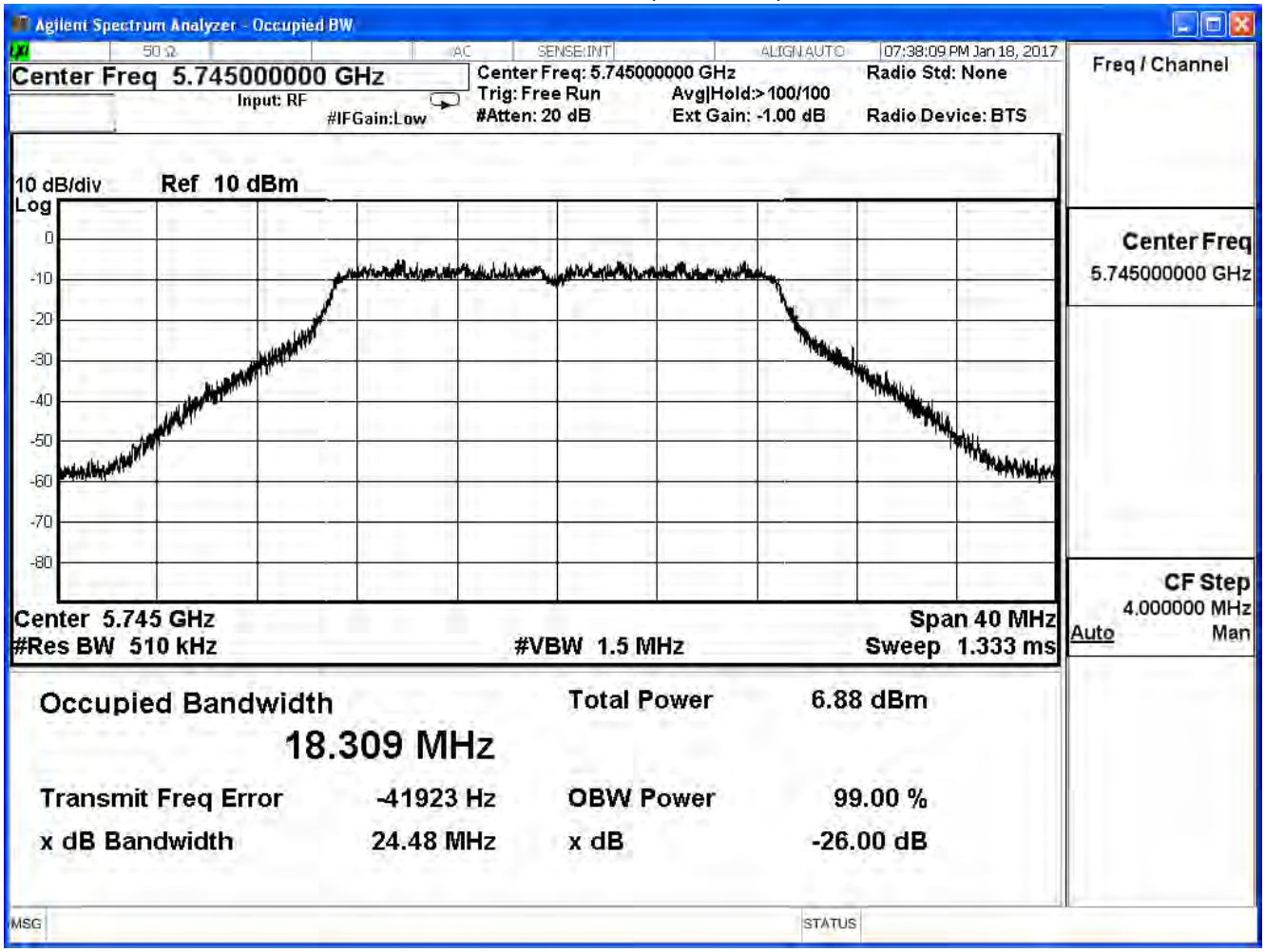


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

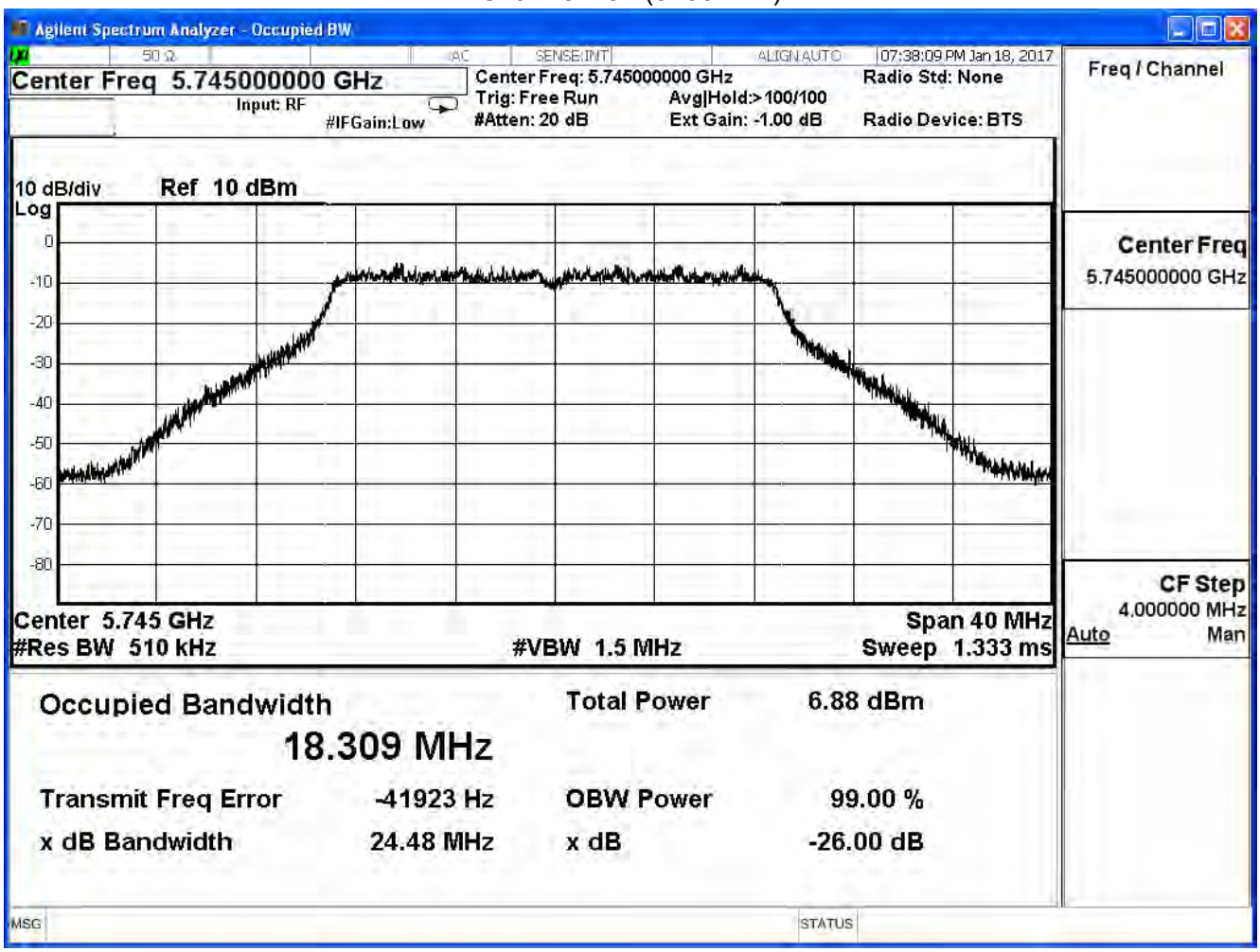
IEEE 802.11ac20 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
149	5745	24.48	18.31	--
157	5785	24.48	18.40	--
165	5825	24.93	18.36	--

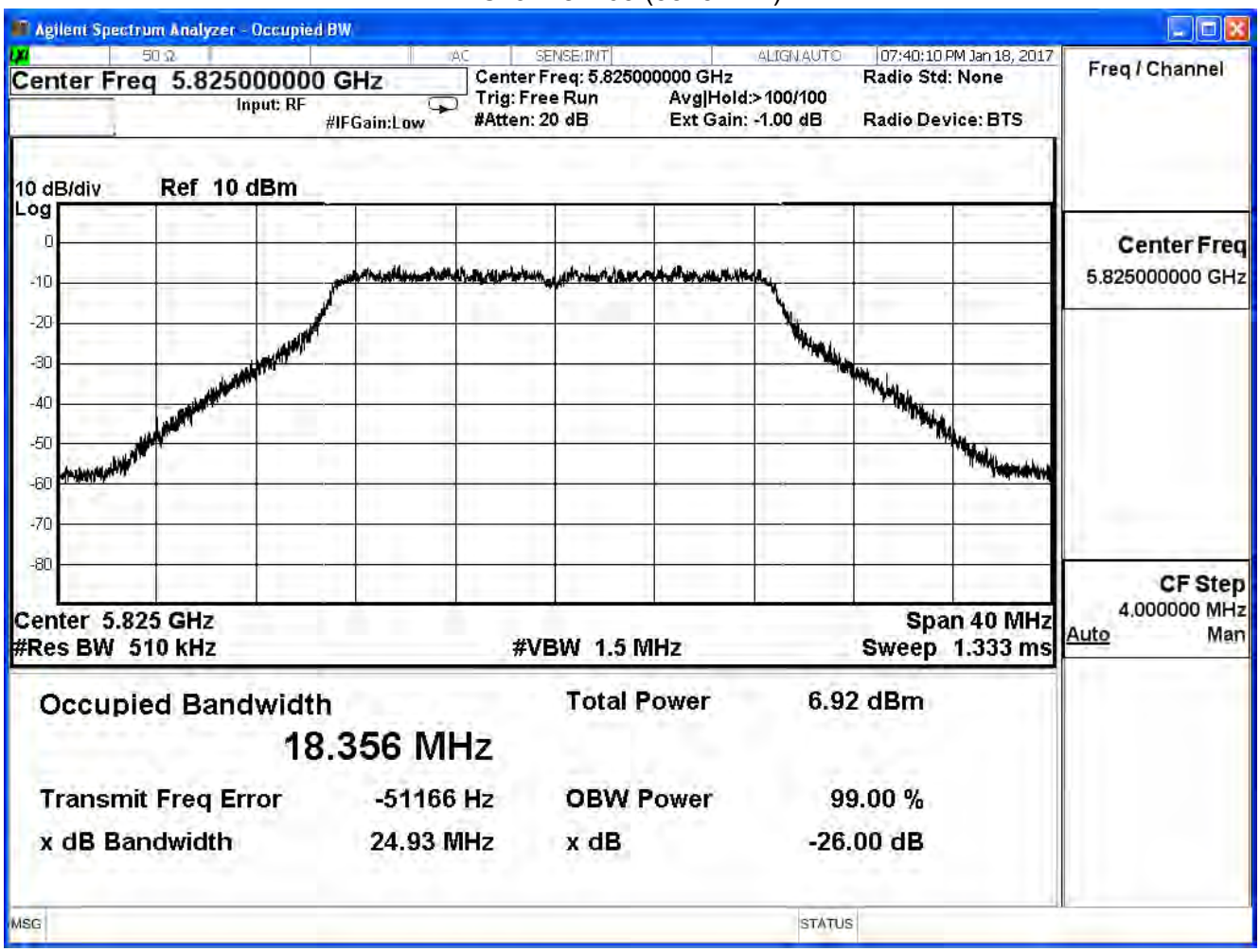
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

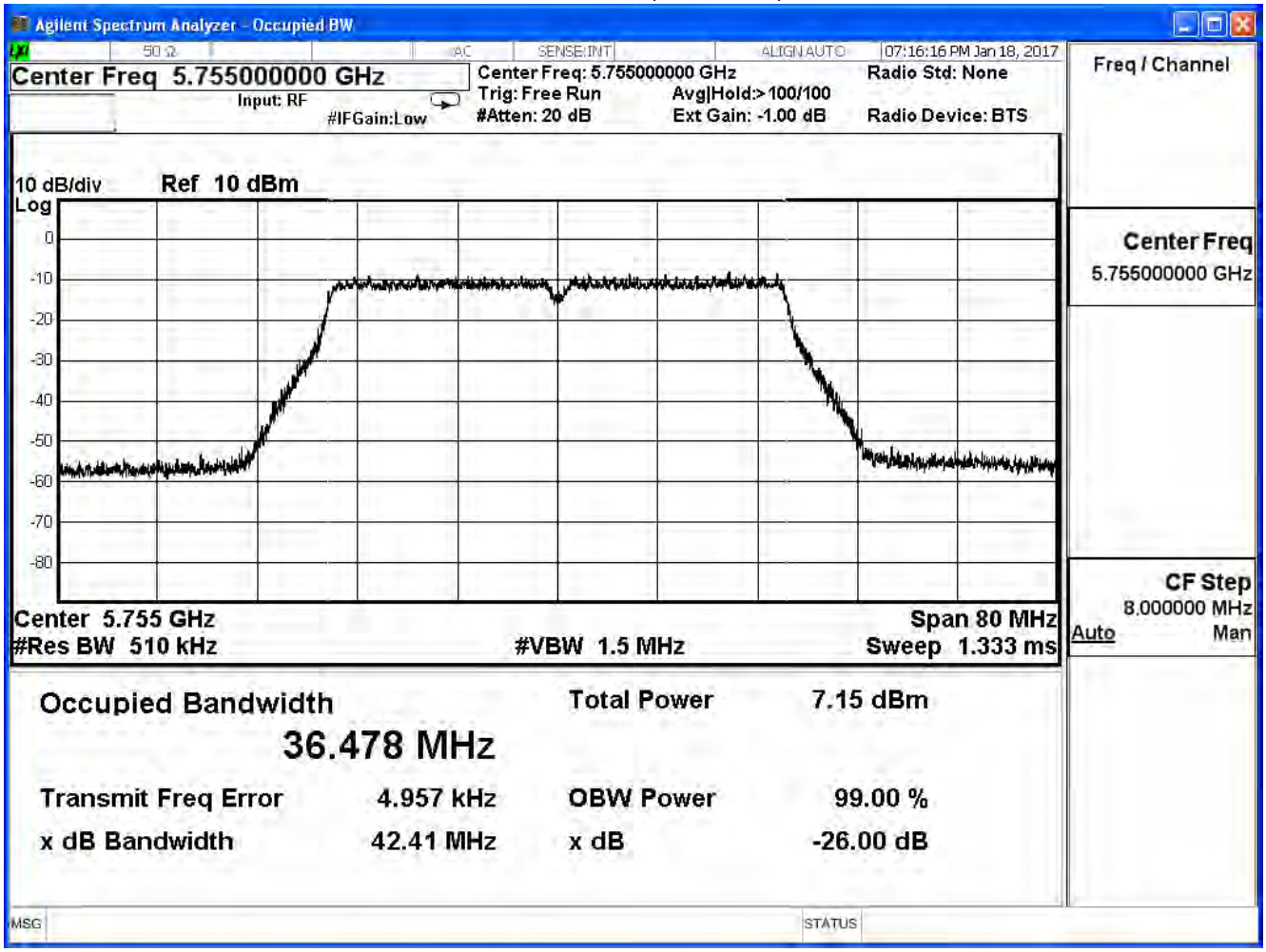


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

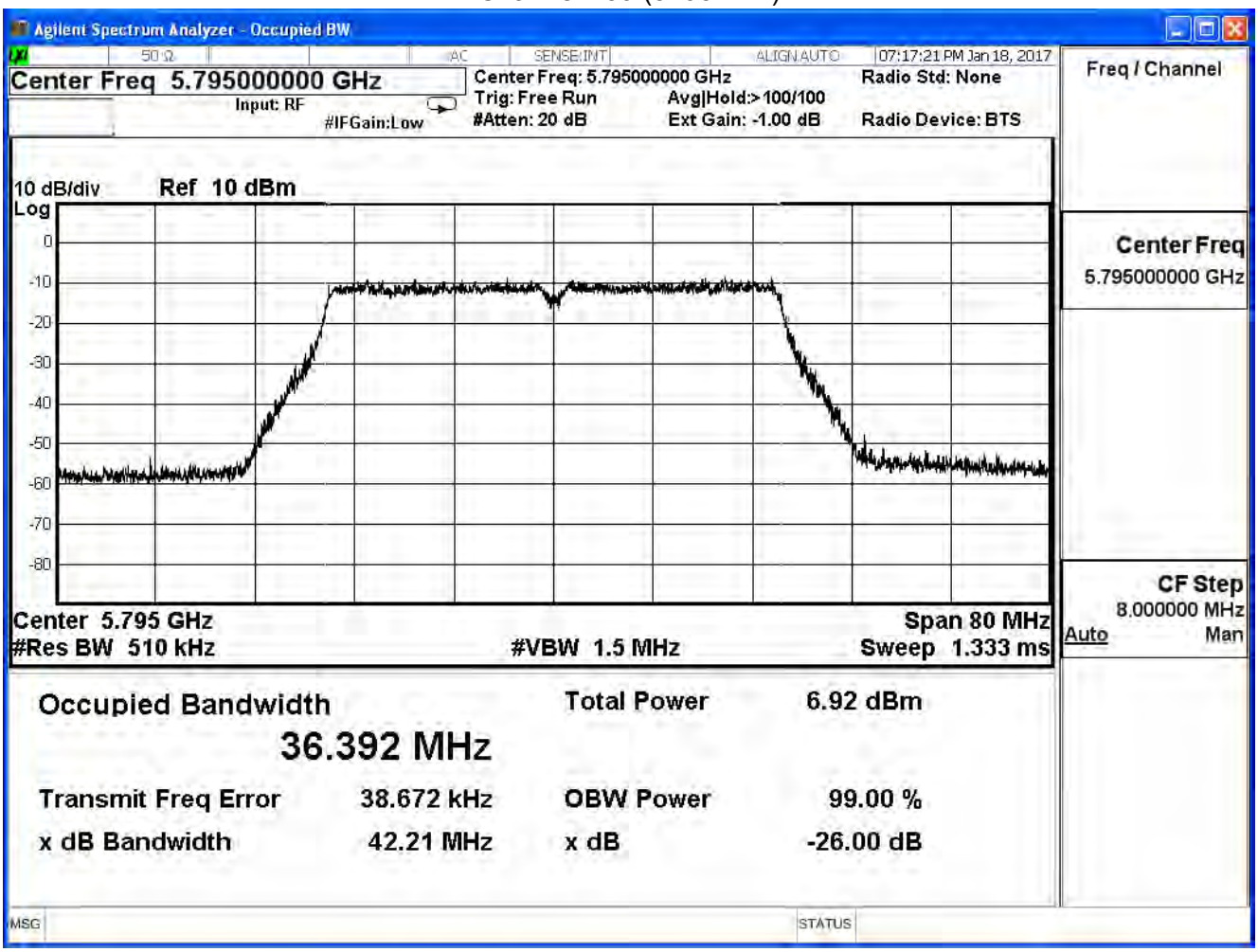
IEEE 802.11ac40 (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
151	5755	42.41	36.48	--
159	5795	42.21	36.39	--

Channel 151 (5755MHz)



Channel 159 (5795MHz)

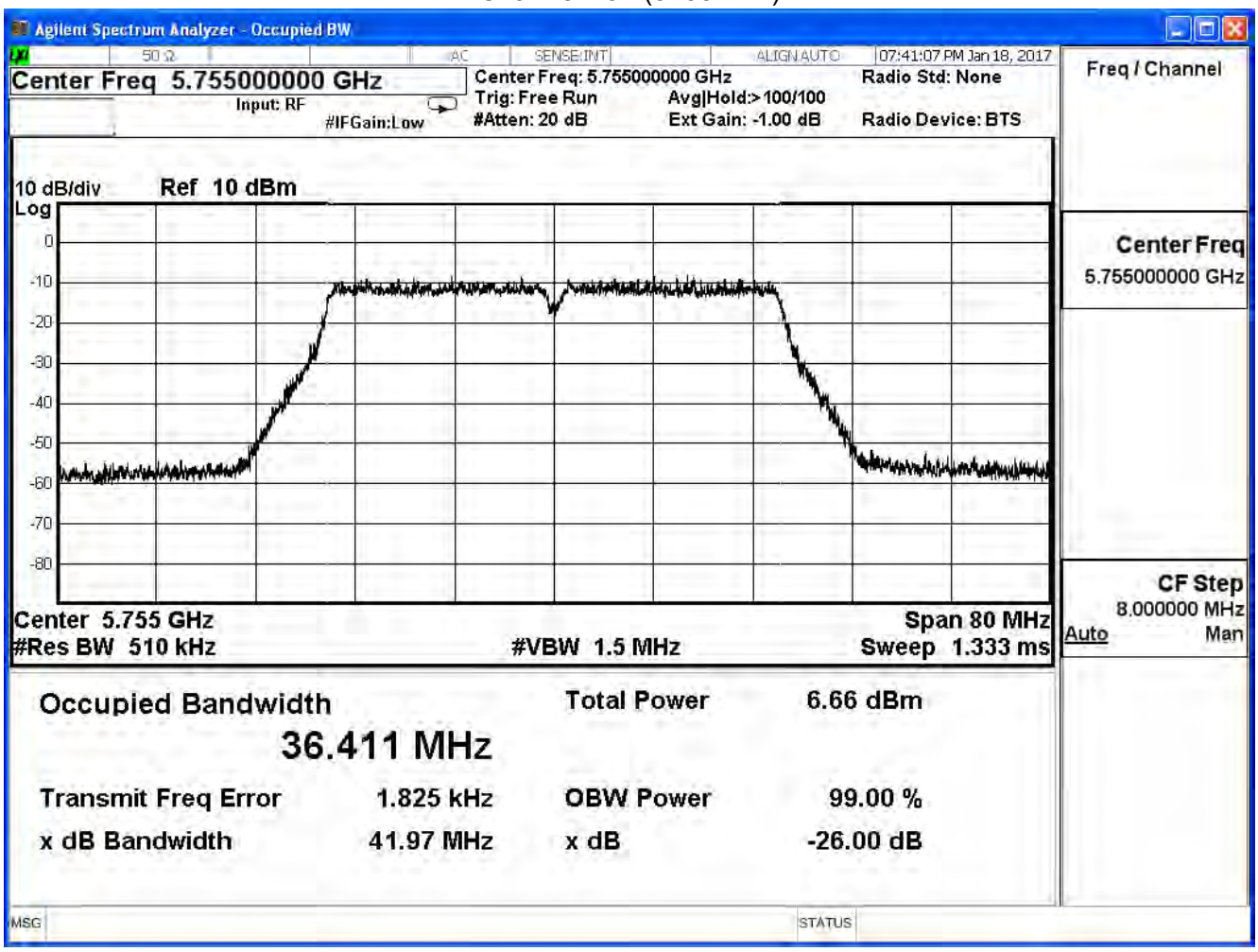


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

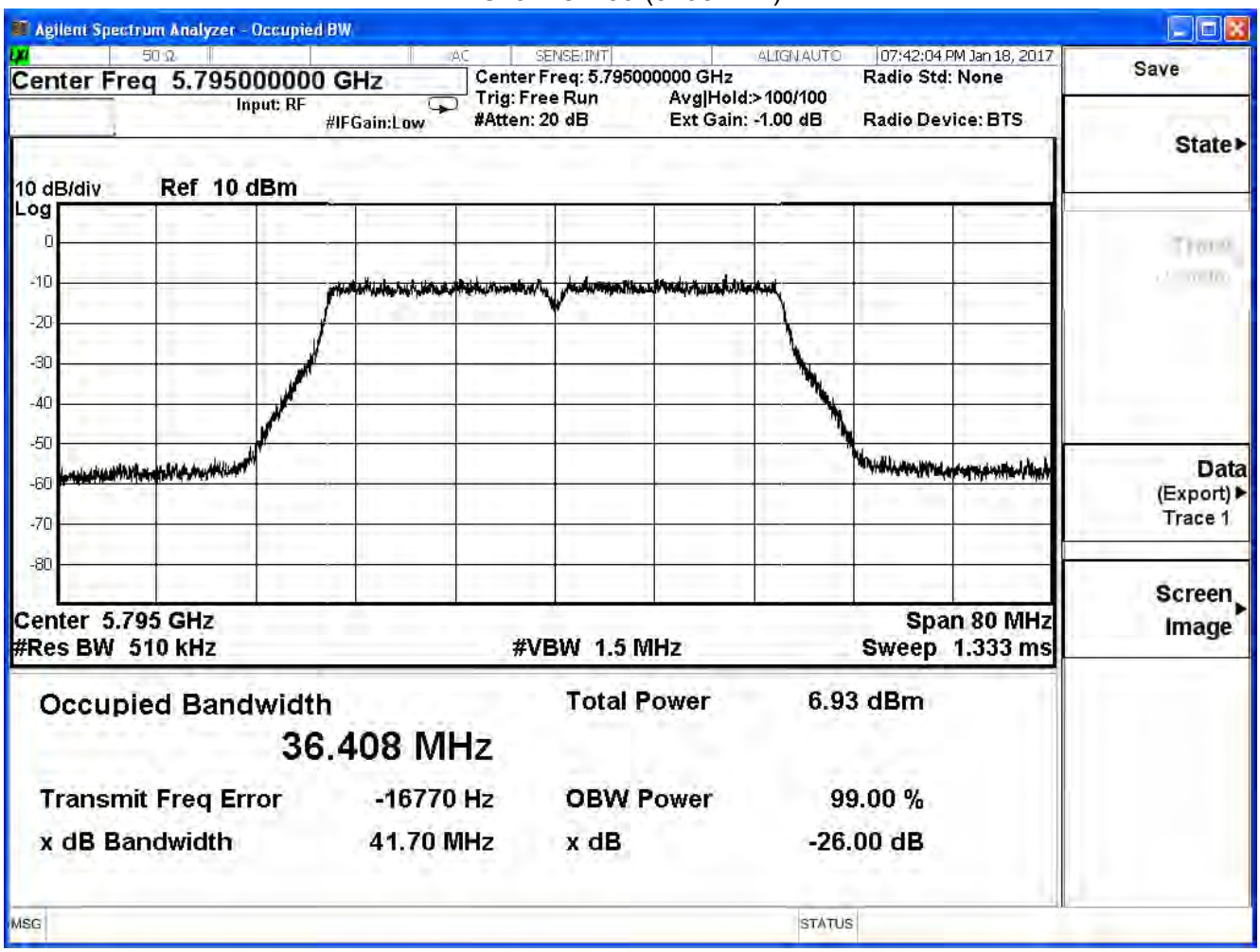
IEEE 802.11ac40 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
151	5755	41.97	36.41	--
159	5795	41.70	36.41	--

Channel 151 (5755MHz)



Channel 159 (5795MHz)

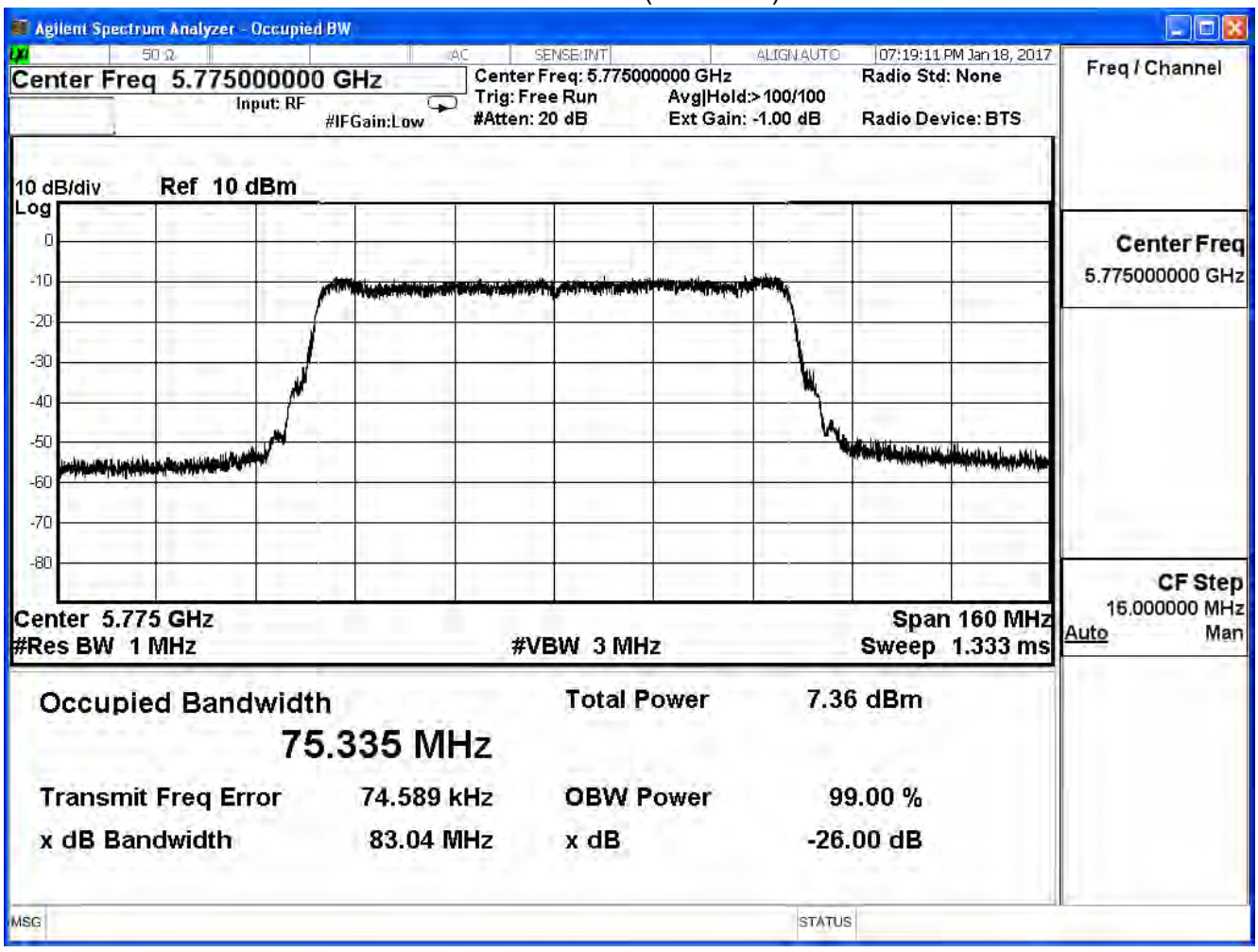


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
155	5775	83.04	75.34	--

Channel 155 (5775MHz)

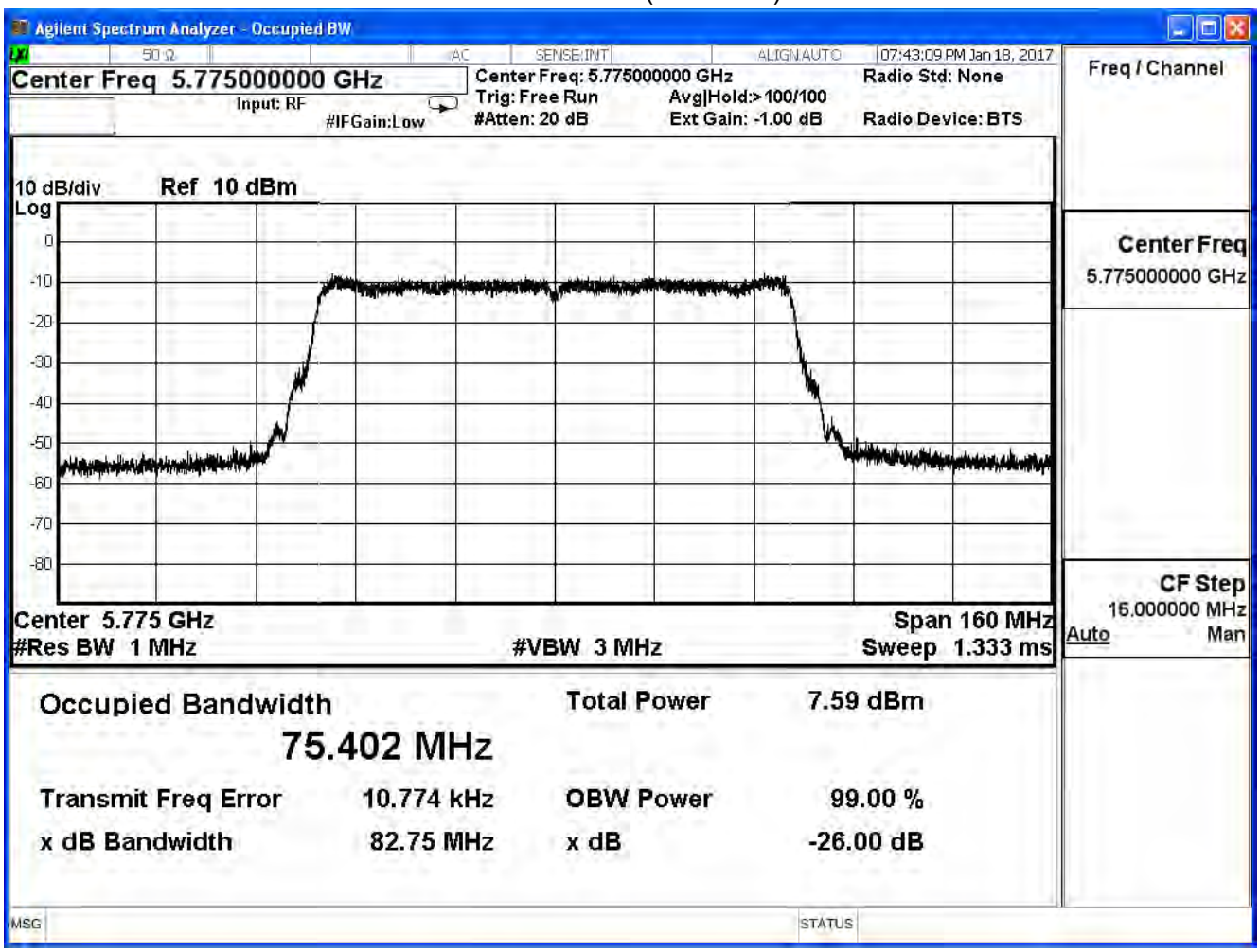


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
		26dB	99%	
155	5775	82.75	75.40	--

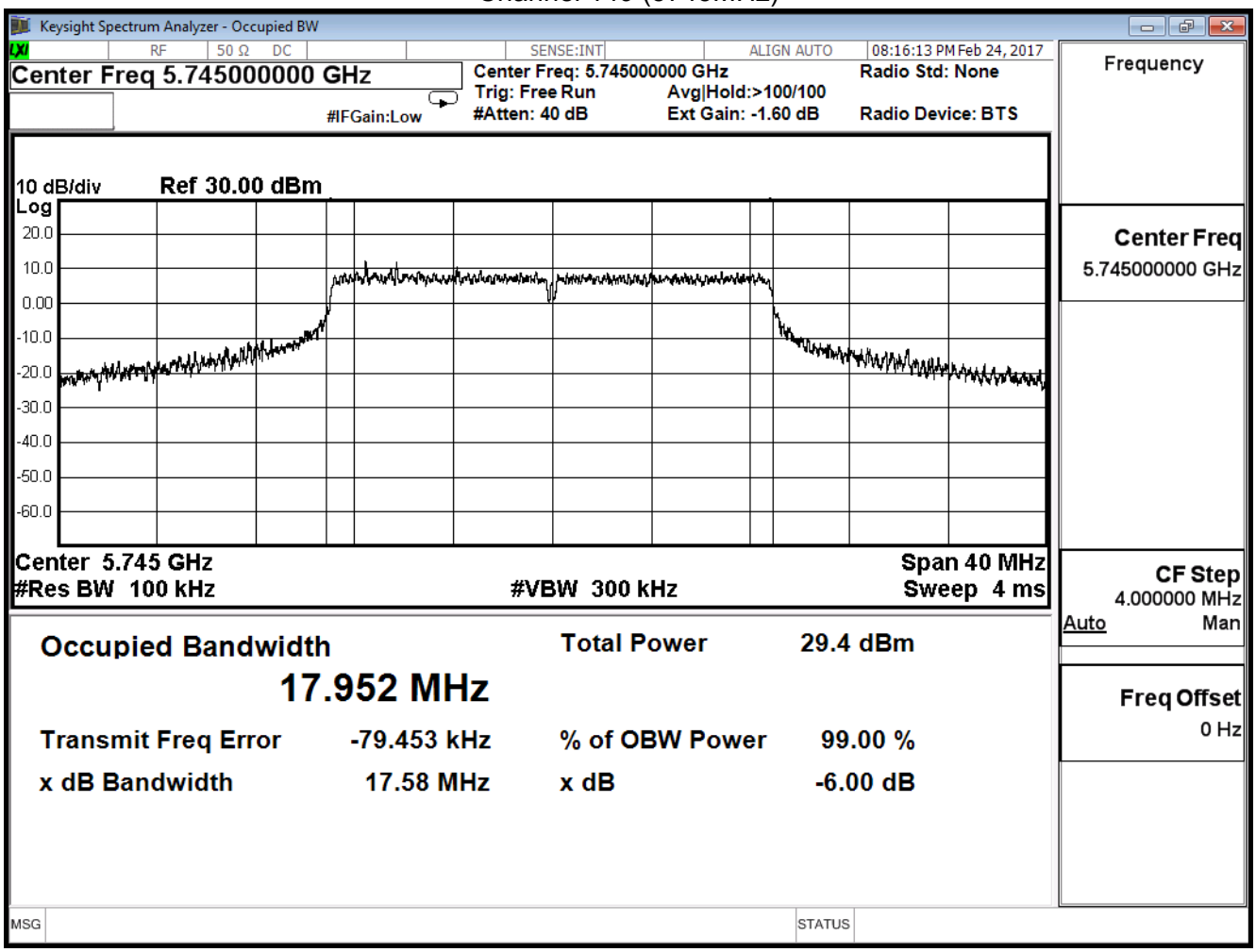
Channel 155 (5775MHz)



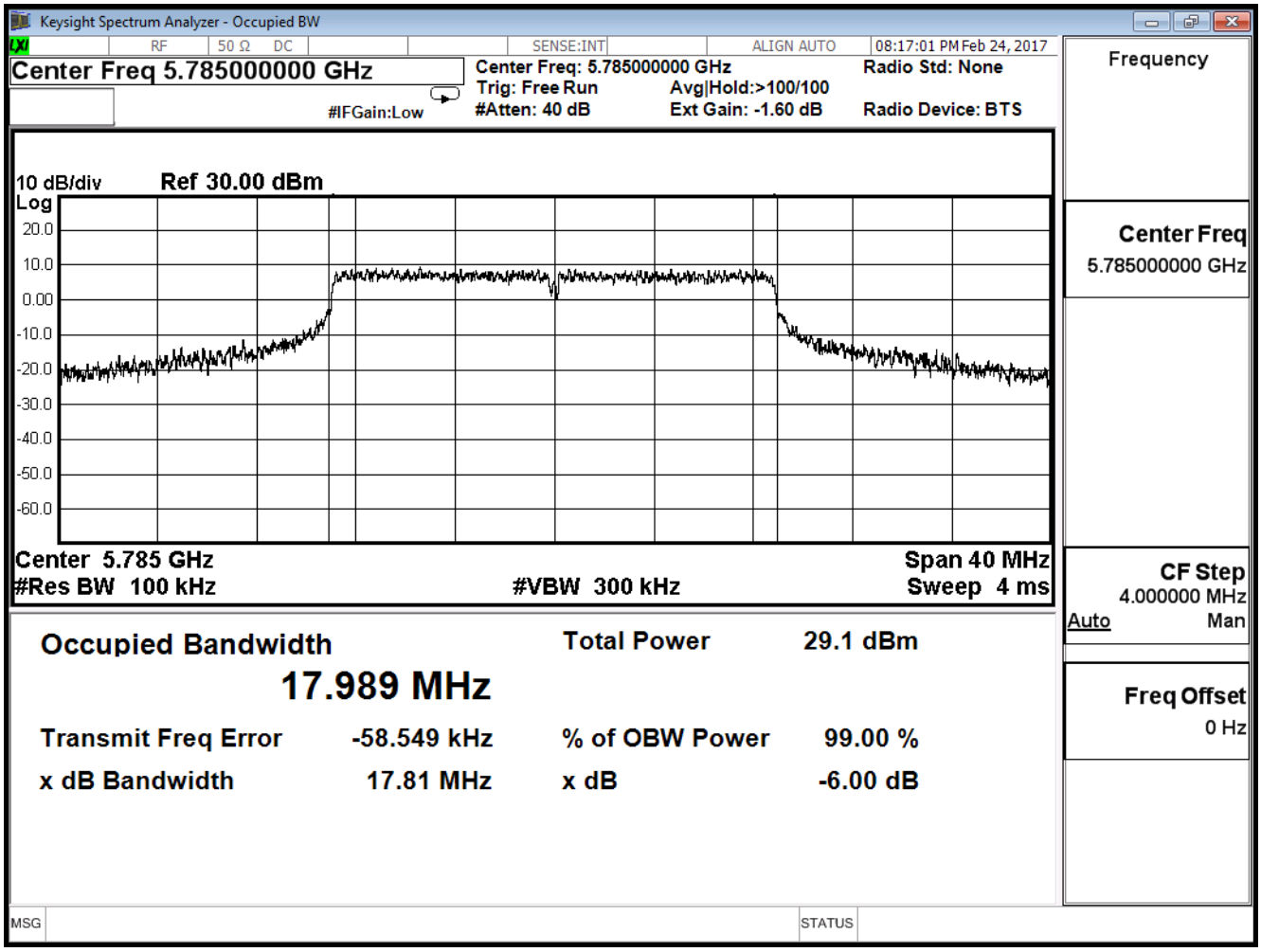
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac20 (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
149	5745	17.58	>500	Pass
157	5785	17.81	>500	Pass
165	5825	17.56	>500	Pass

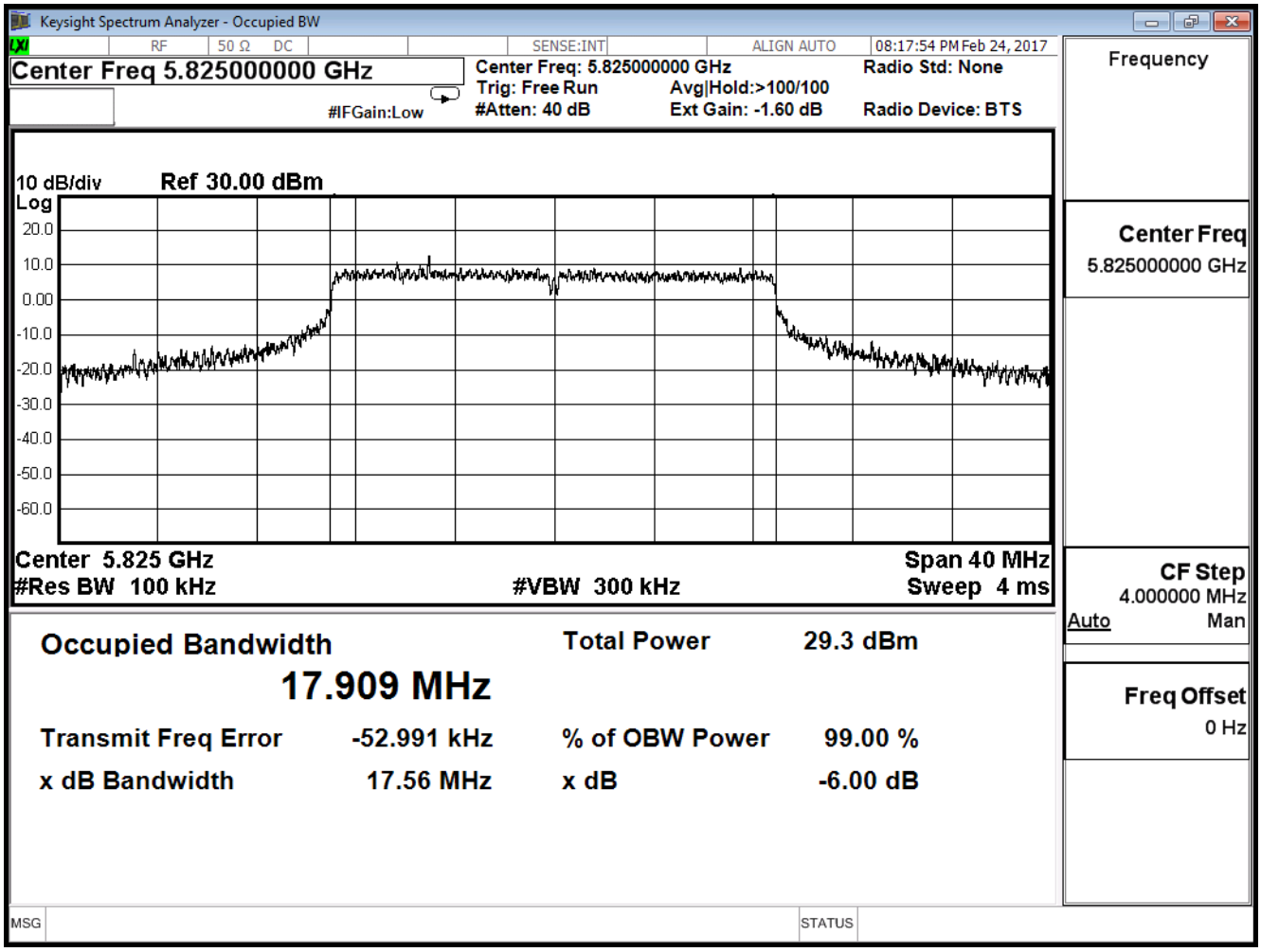
Channel 149 (5745MHz)



Channel 157 (5785MHz)



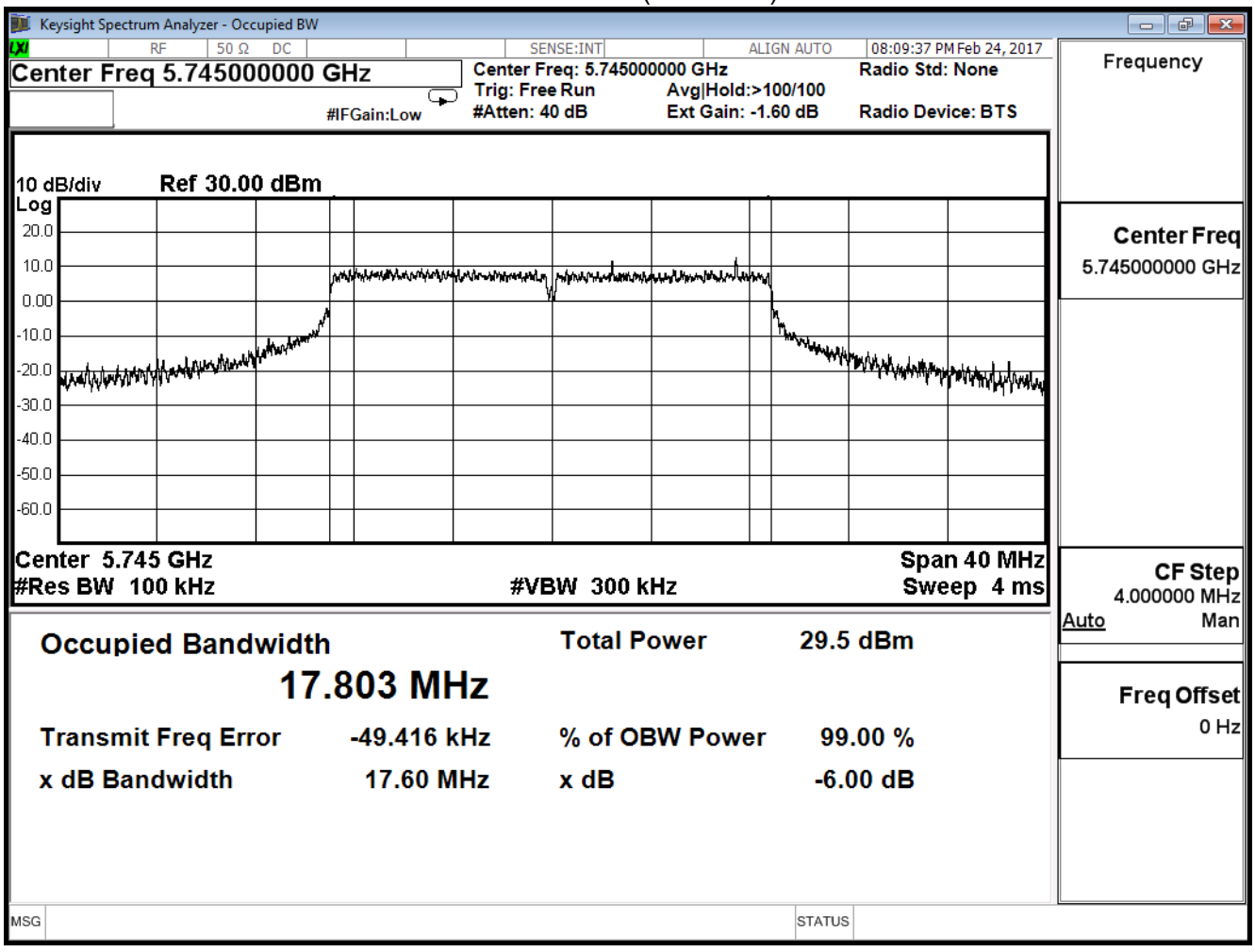
Channel 165 (5825MHz)



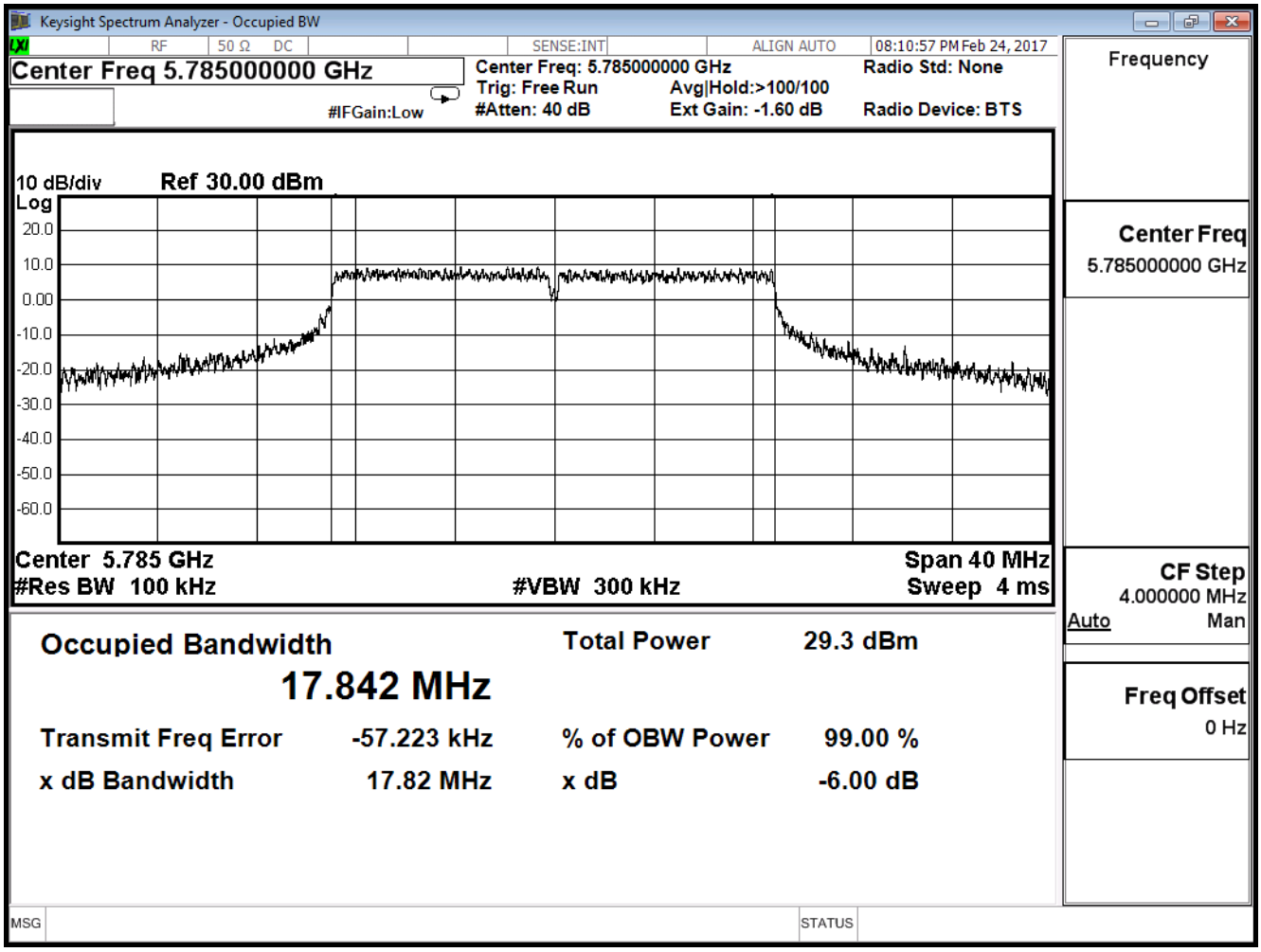
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac20 (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
149	5745	17.60	>500	Pass
157	5785	17.82	>500	Pass
165	5825	17.62	>500	Pass

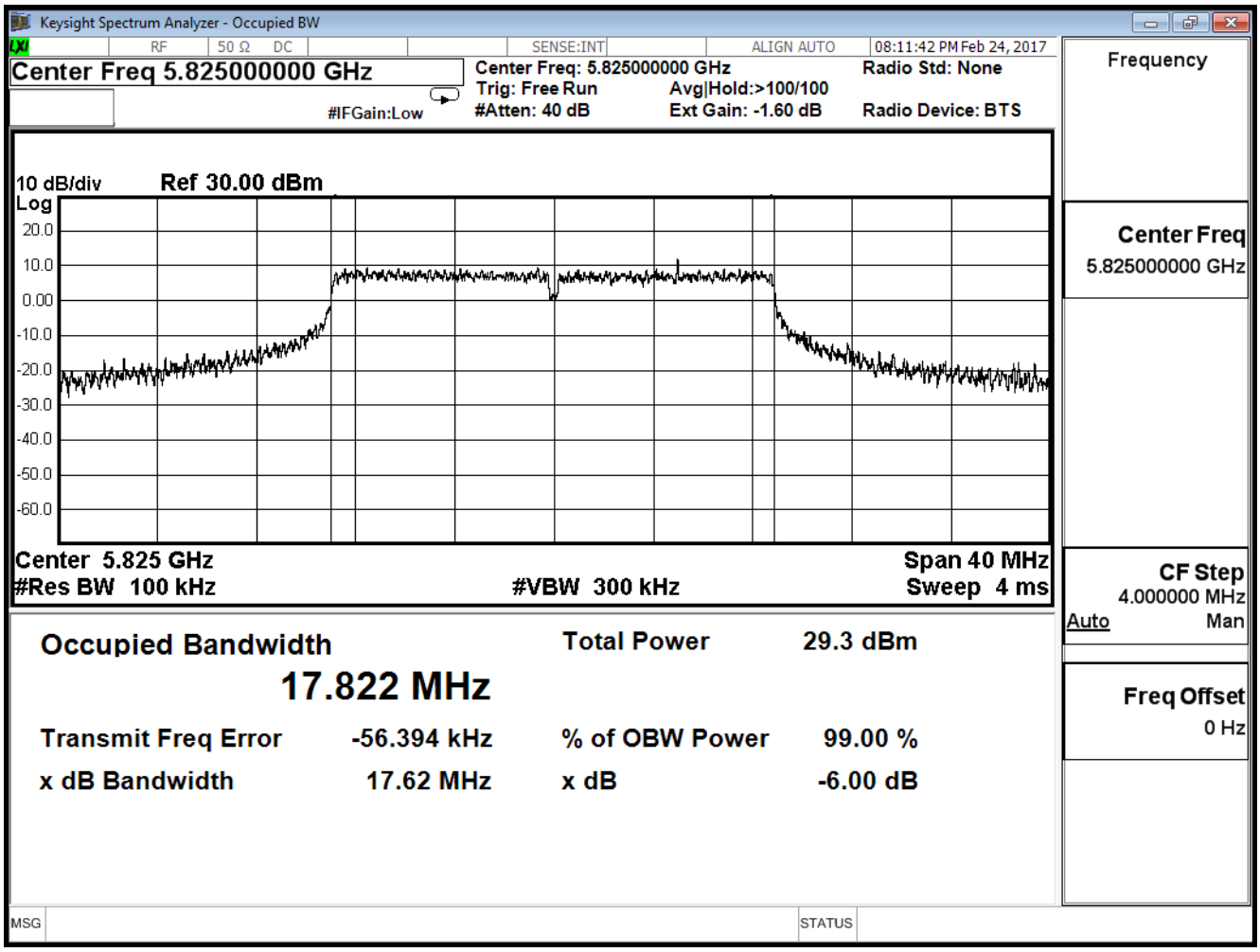
Channel 149 (5745MHz)



Channel 157 (5785MHz)



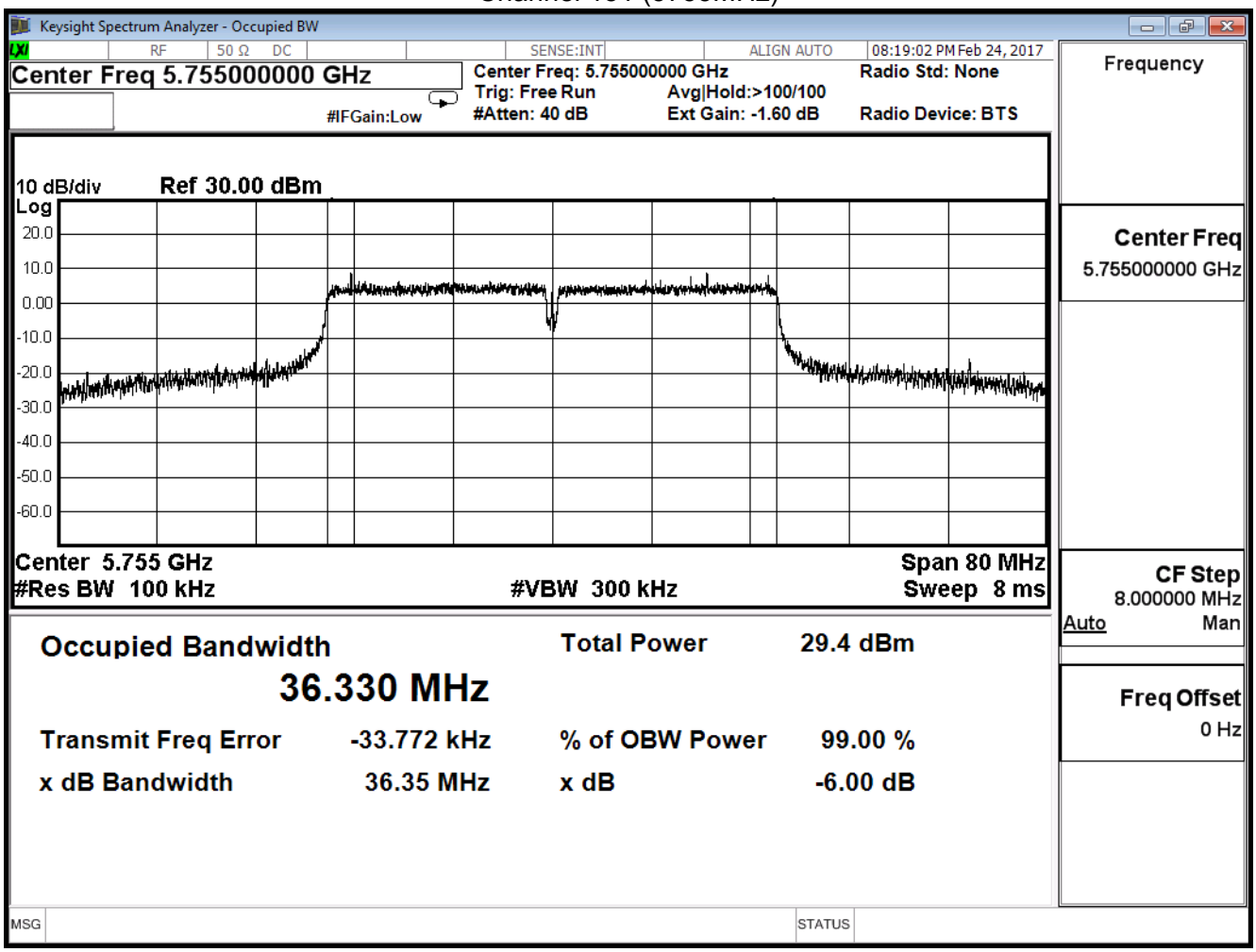
Channel 165 (5825MHz)



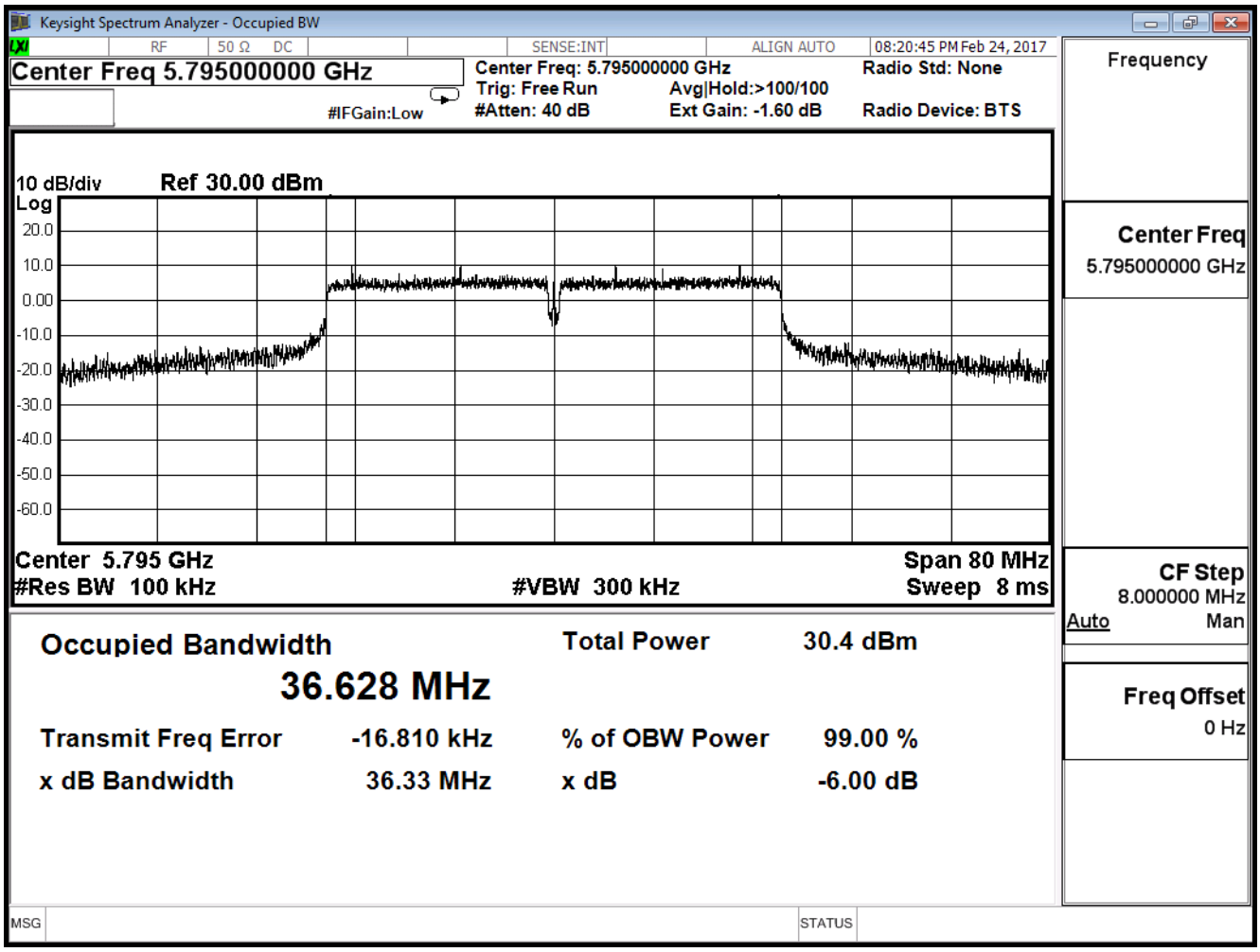
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac40 (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
151	5755	36.35	>500	Pass
159	5795	36.33	>500	Pass

Channel 151 (5755MHz)



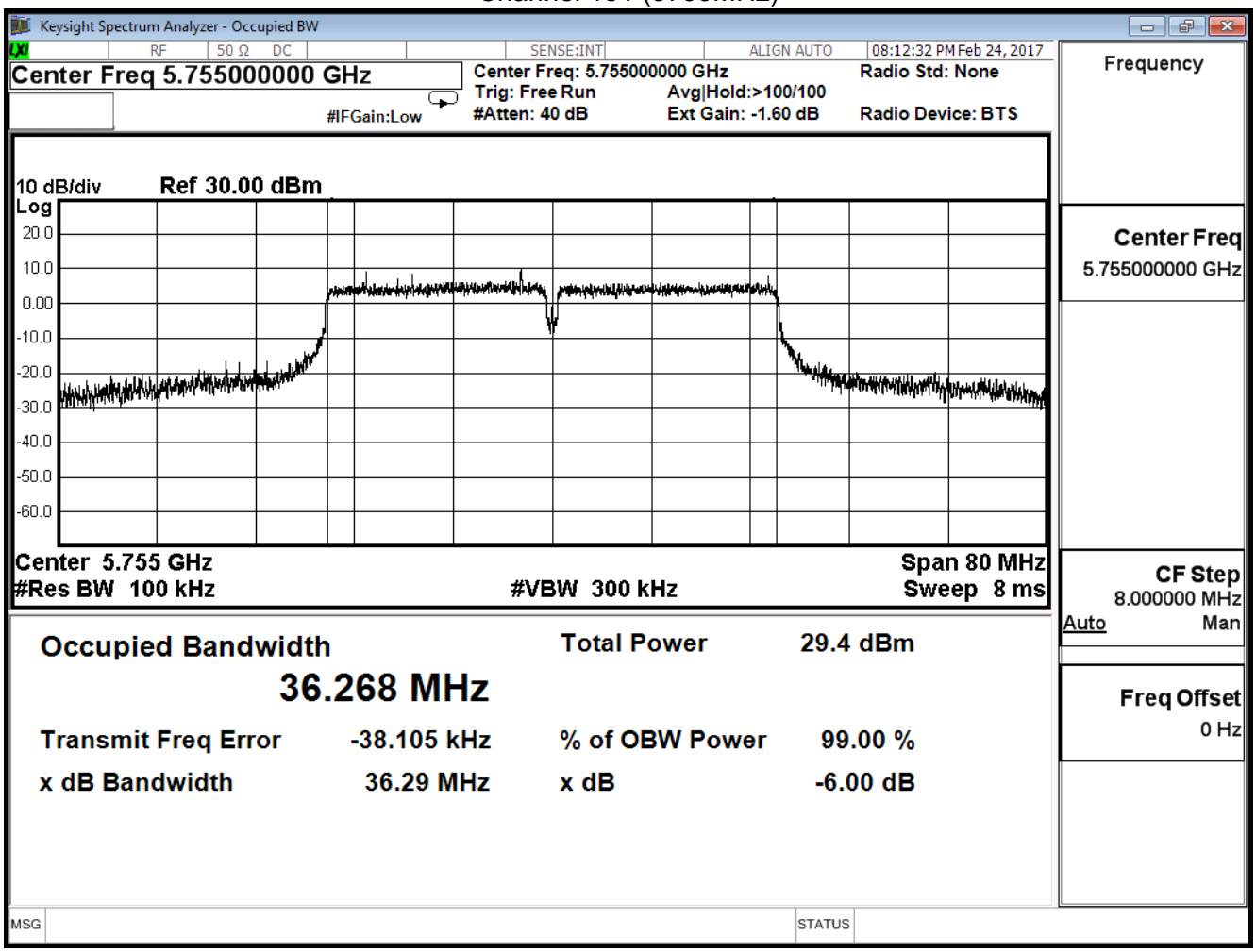
Channel 159 (5795MHz)



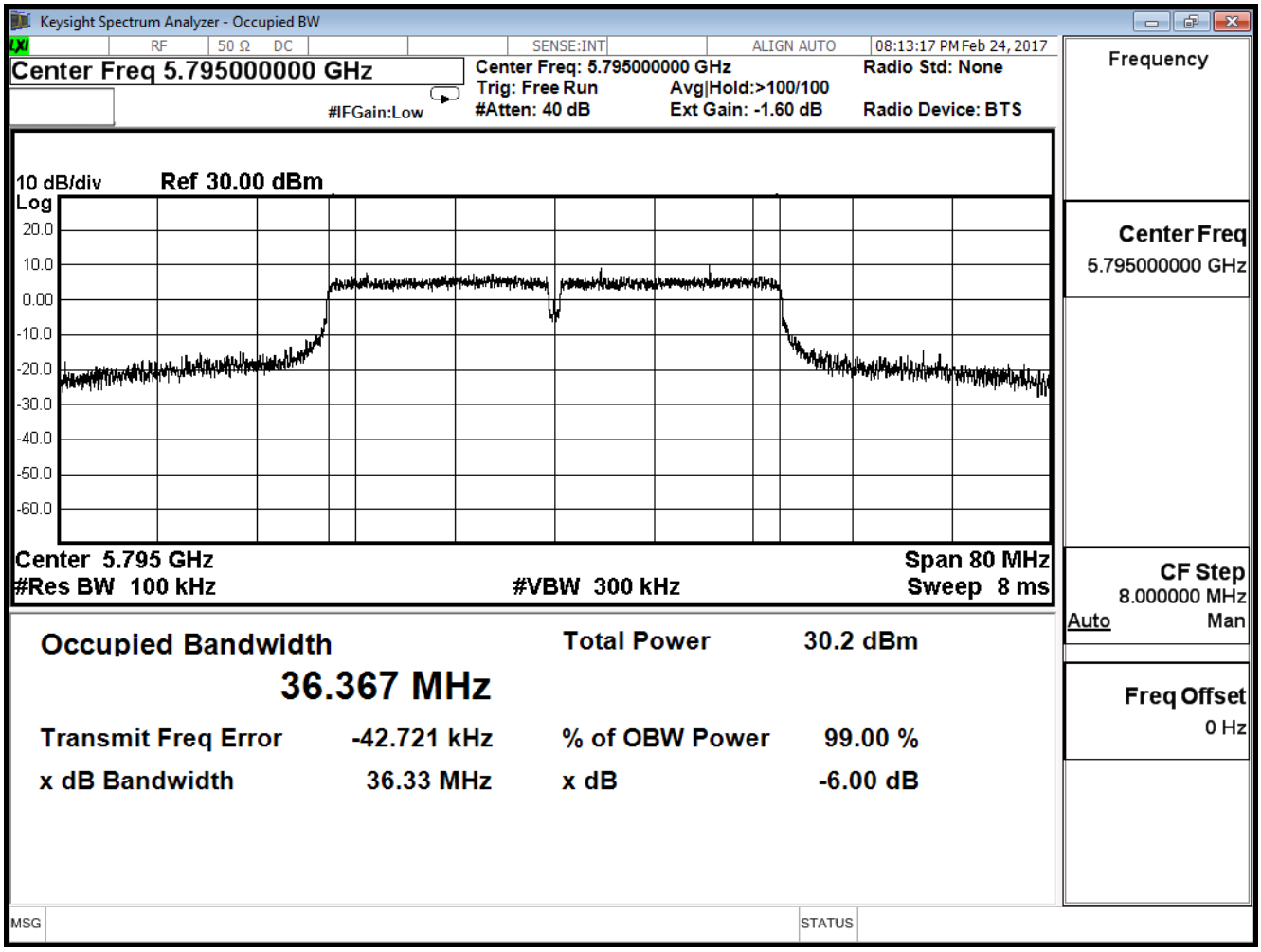
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac40 (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
151	5755	36.29	>500	Pass
159	5795	36.33	>500	Pass

Channel 151 (5755MHz)



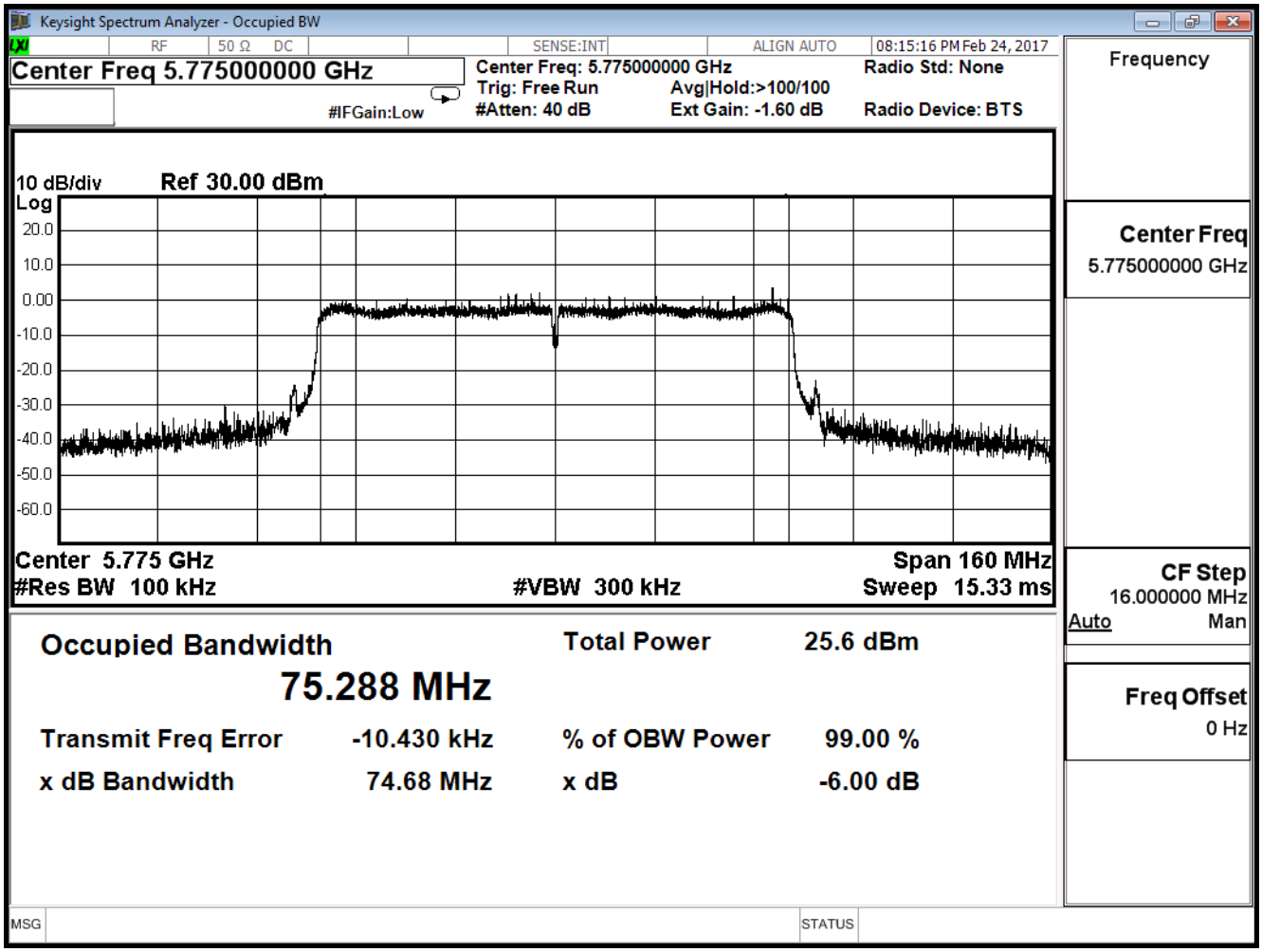
Channel 159 (5795MHz)



Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac80 (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
155	5775	74.68	>500	Pass

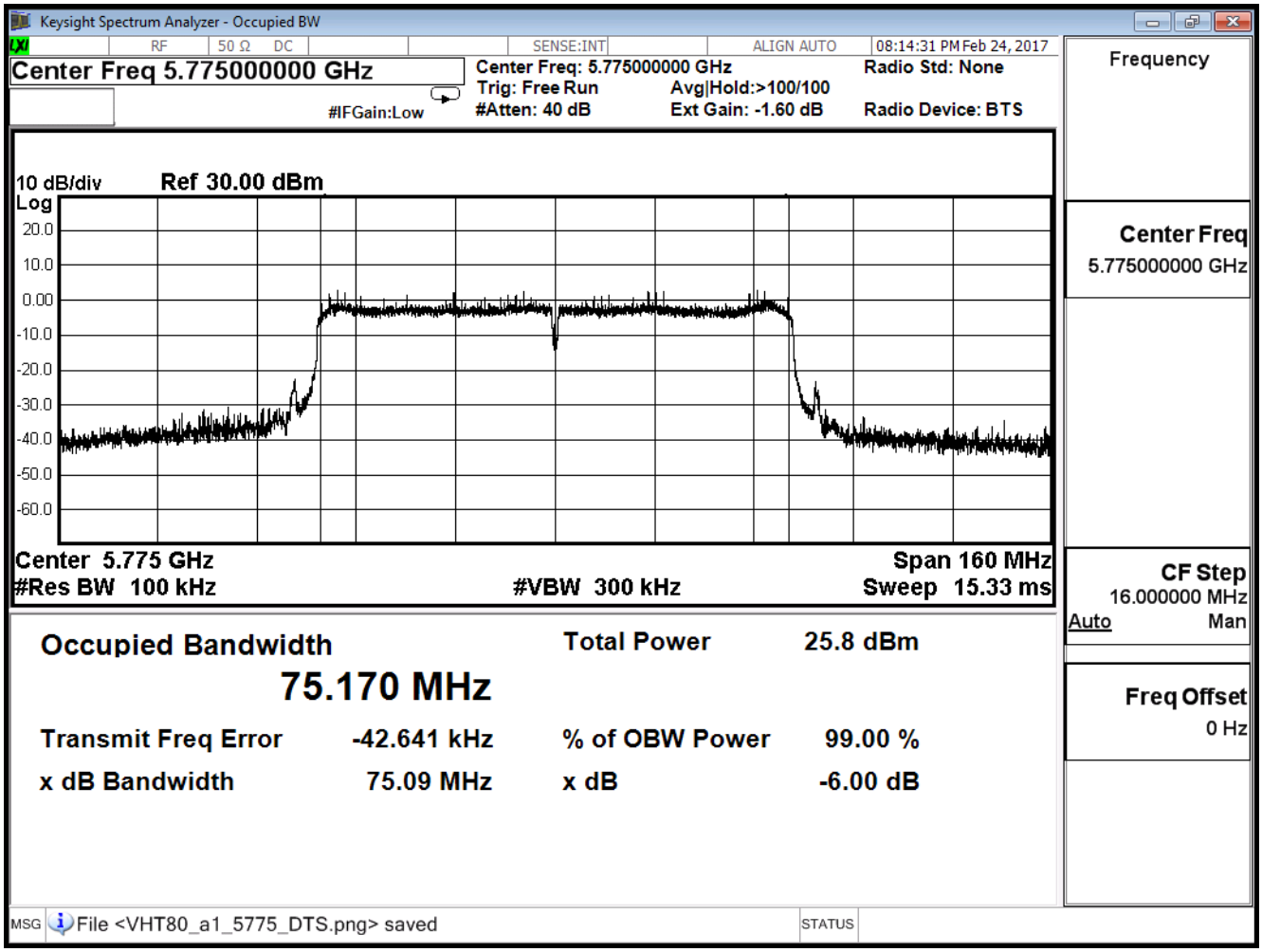
Channel 155 (5775MHz)



Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac80 (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (KHz)	Result
155	5775	75.09	>500	Pass

Channel 155 (5775MHz)



4. Peak Transmit power

4.1. Test Equipment

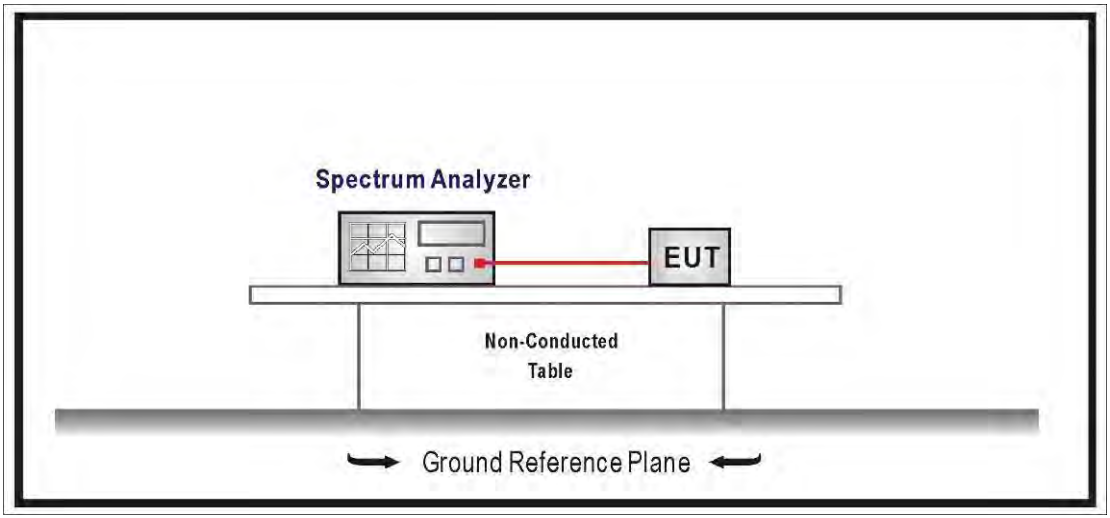
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

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

4.2. Test Setup



4.3. Limits

1. For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
2. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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 fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
4. 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. In addition, 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.

5. 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.
6. 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 V01r03 and 662911 D01 v02r01 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.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

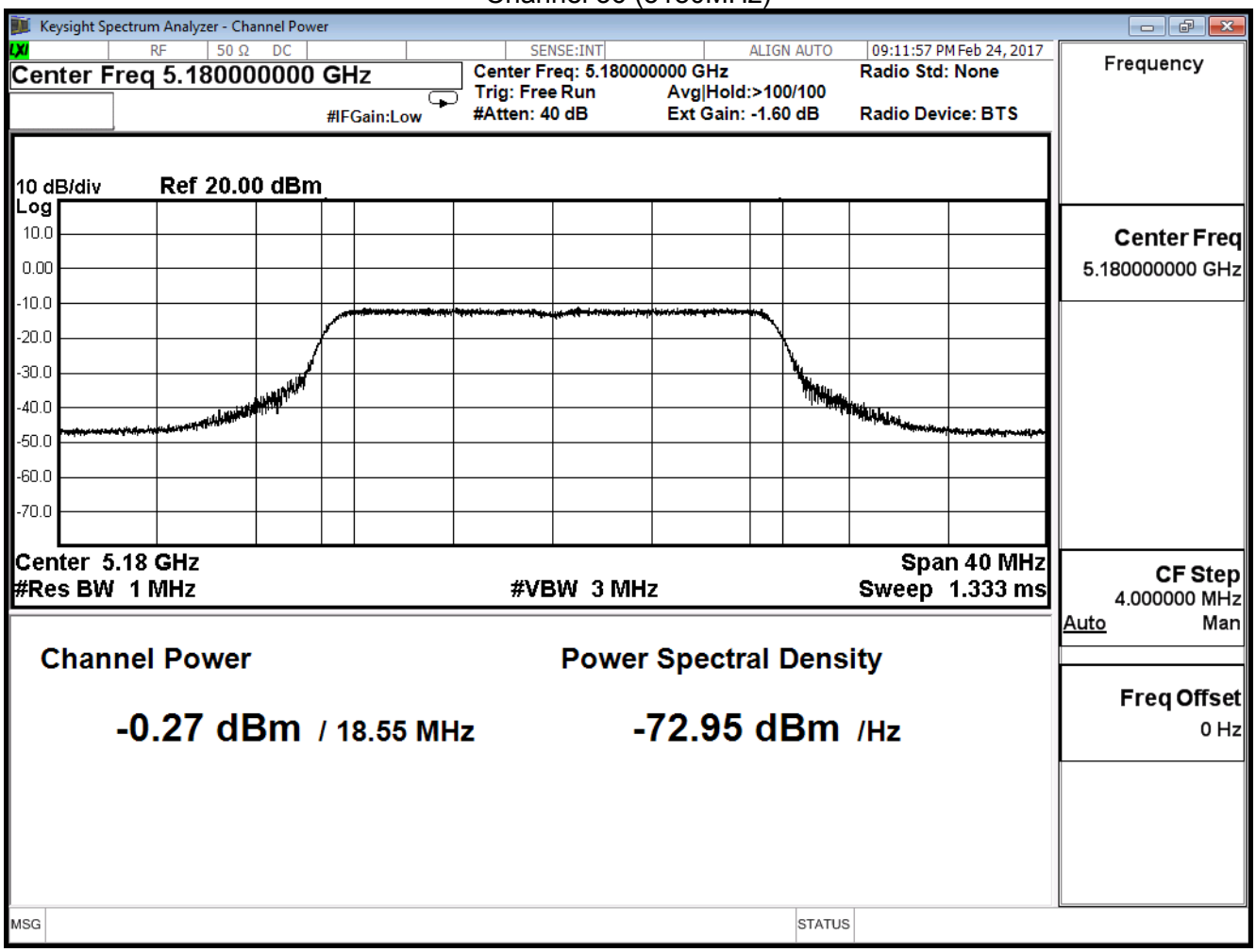
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac (20M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	-0.27	≦22.75
44	5220	1.87	≦22.75
48	5240	-0.25	≦22.75

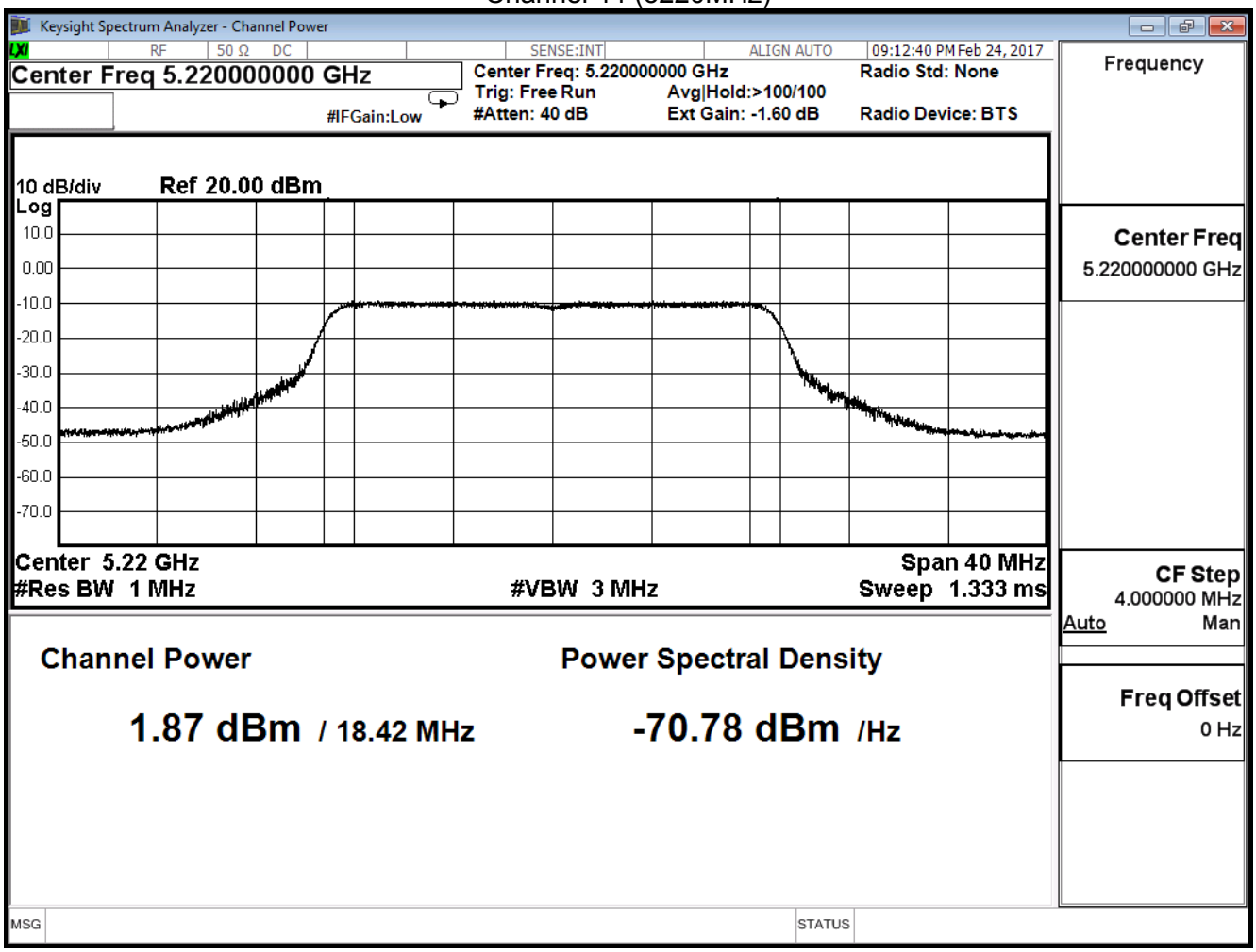
Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
36	5180	-0.27	--	--	--	--	--	--	--	--	≦22.75
44	5220	1.87	1.67	1.57	1.47	1.37	1.13	1.01	0.77	0.51	≦22.75
48	5240	-0.25	--	--	--	--	--	--	--	--	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

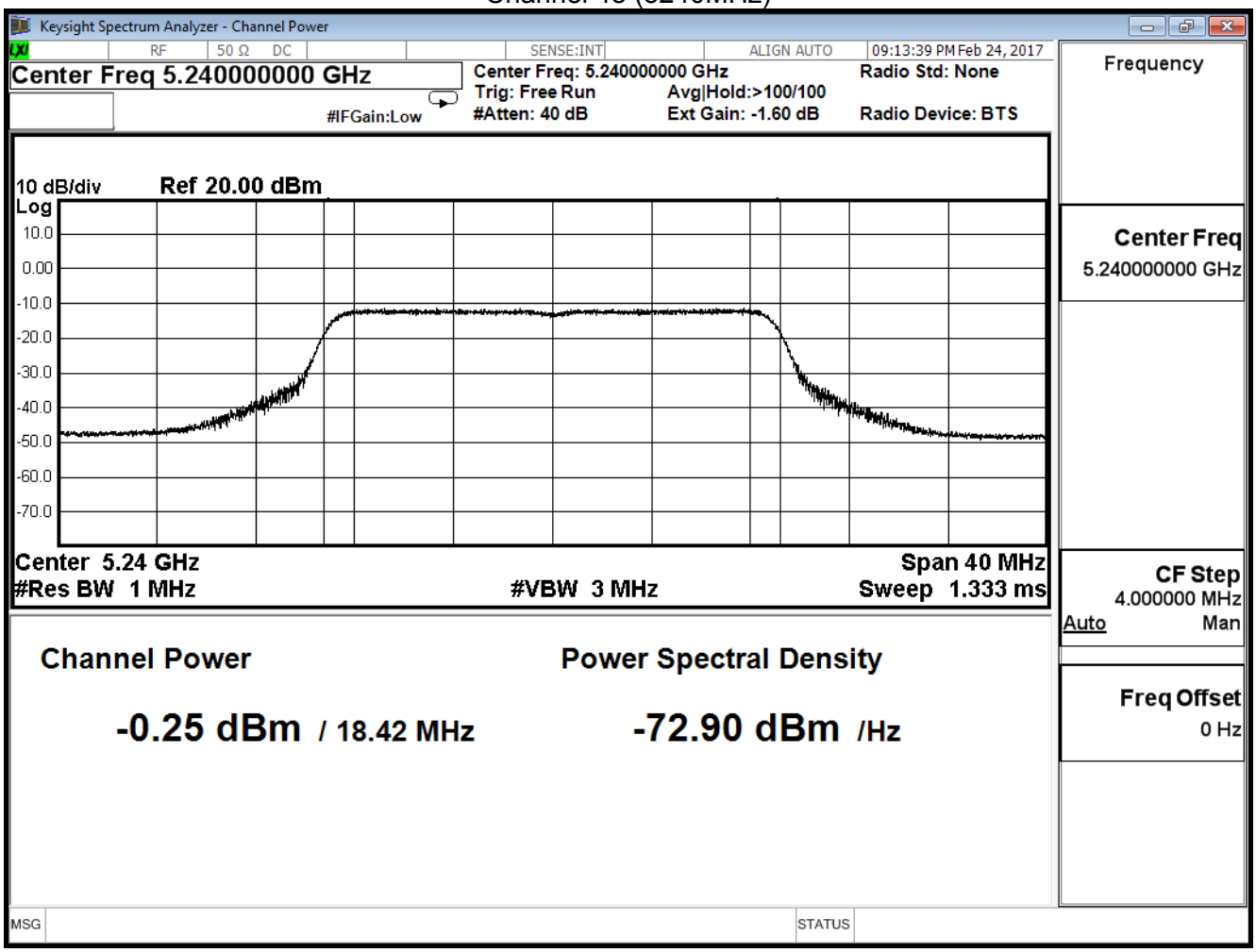
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



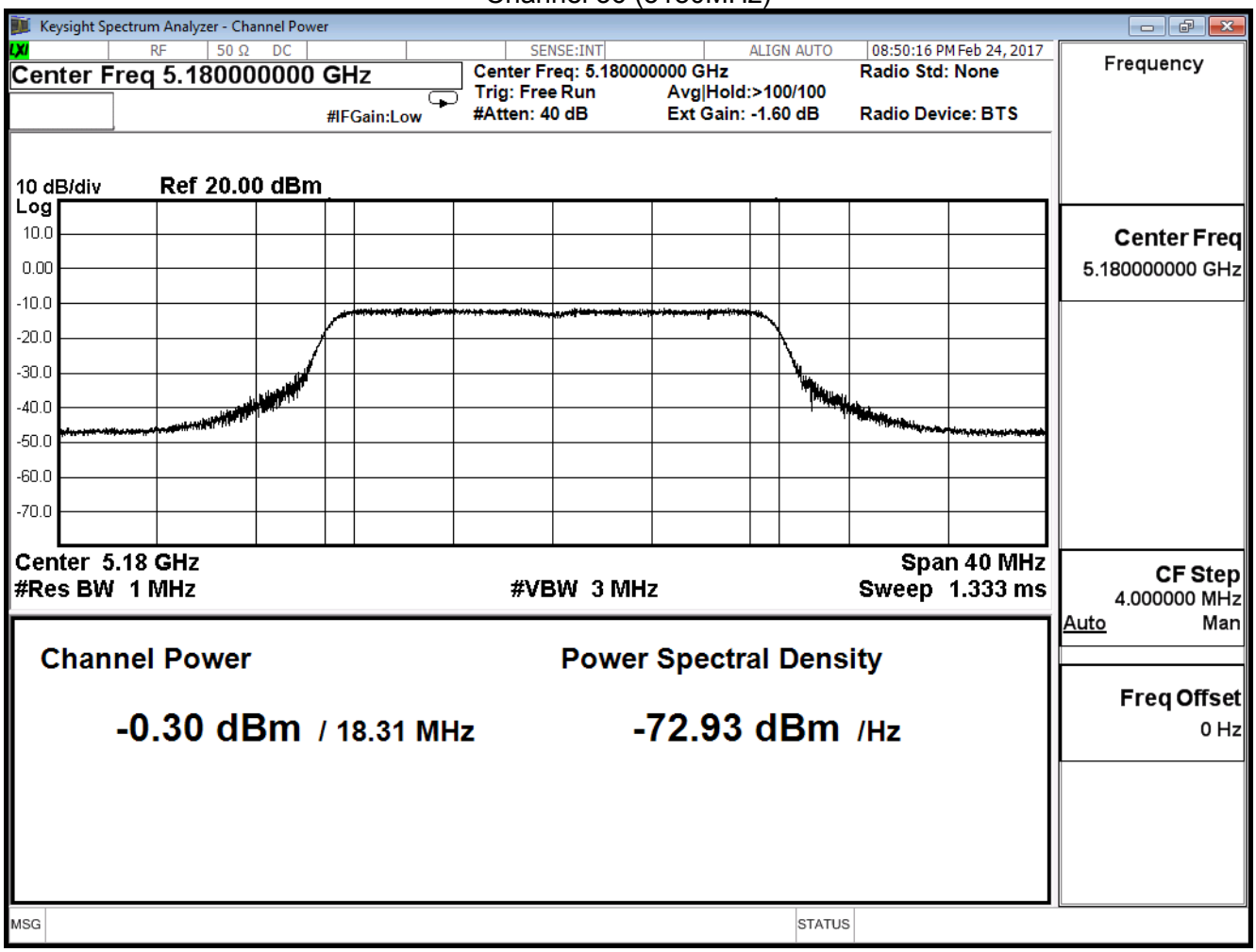
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11AC (20M) (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	-0.30	≦22.75
44	5220	2.64	≦22.75
48	5240	-0.49	≦22.75

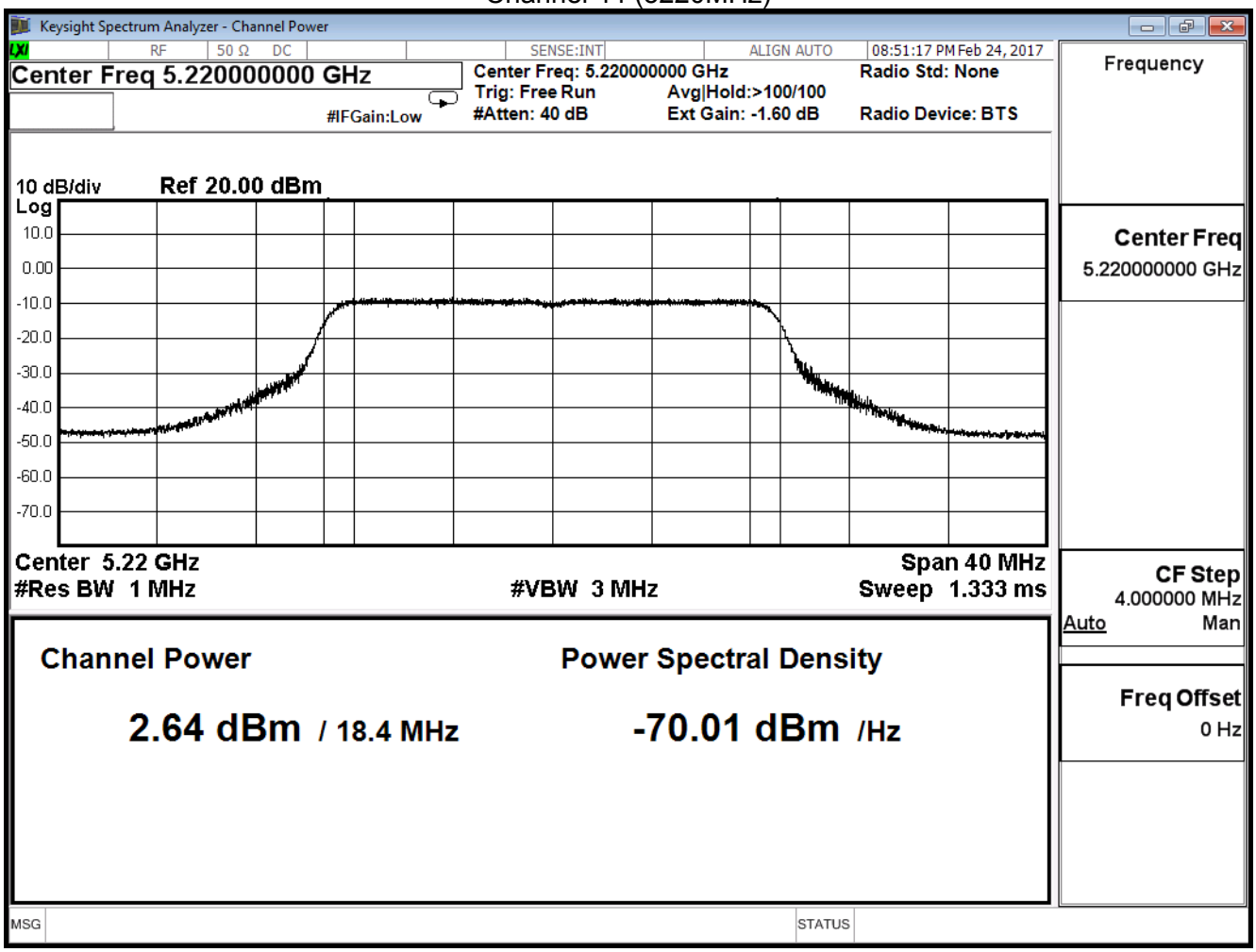
Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
36	5180	-0.30	--	--	--	--	--	--	--	--	≦22.75
44	5220	2.64	2.54	2.44	2.34	2.14	1.90	1.78	1.54	1.02	≦22.75
48	5240	-0.49	--	--	--	--	--	--	--	--	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

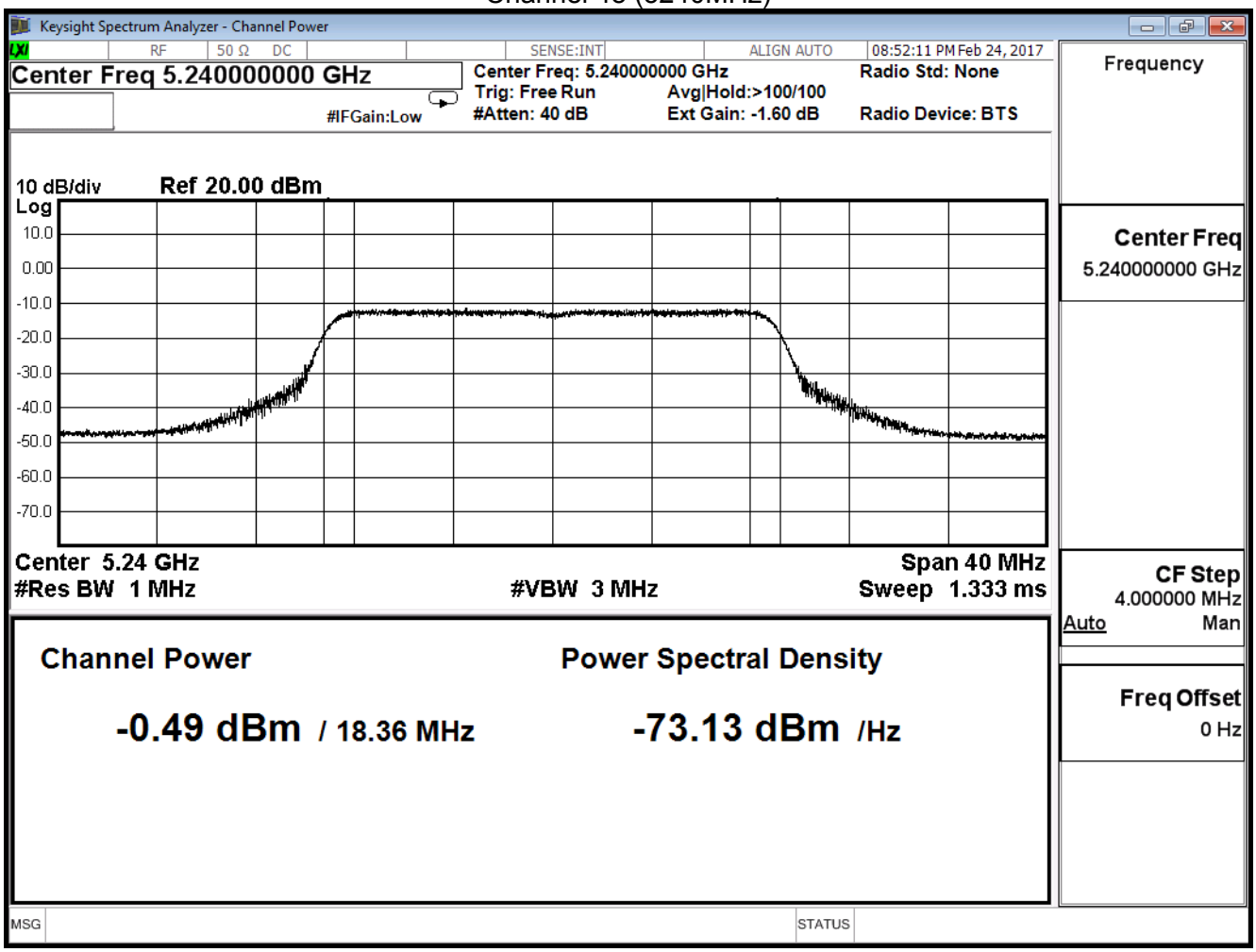
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac (20M) (ANT0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	2.73	≦22.75
44	5220	5.28	≦22.75
48	5240	2.64	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

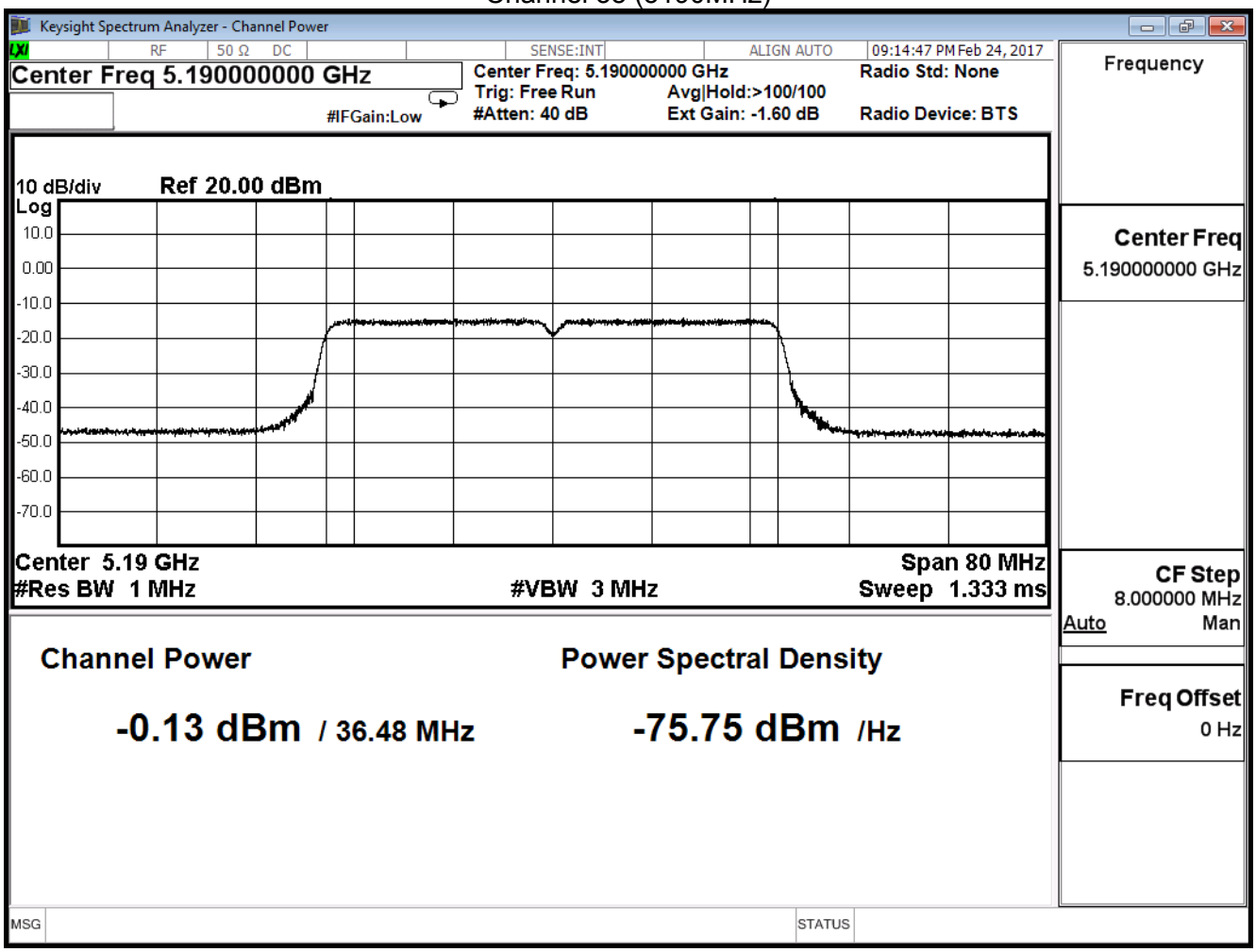
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	-0.13	≦22.75
46	5230	0.20	≦22.75

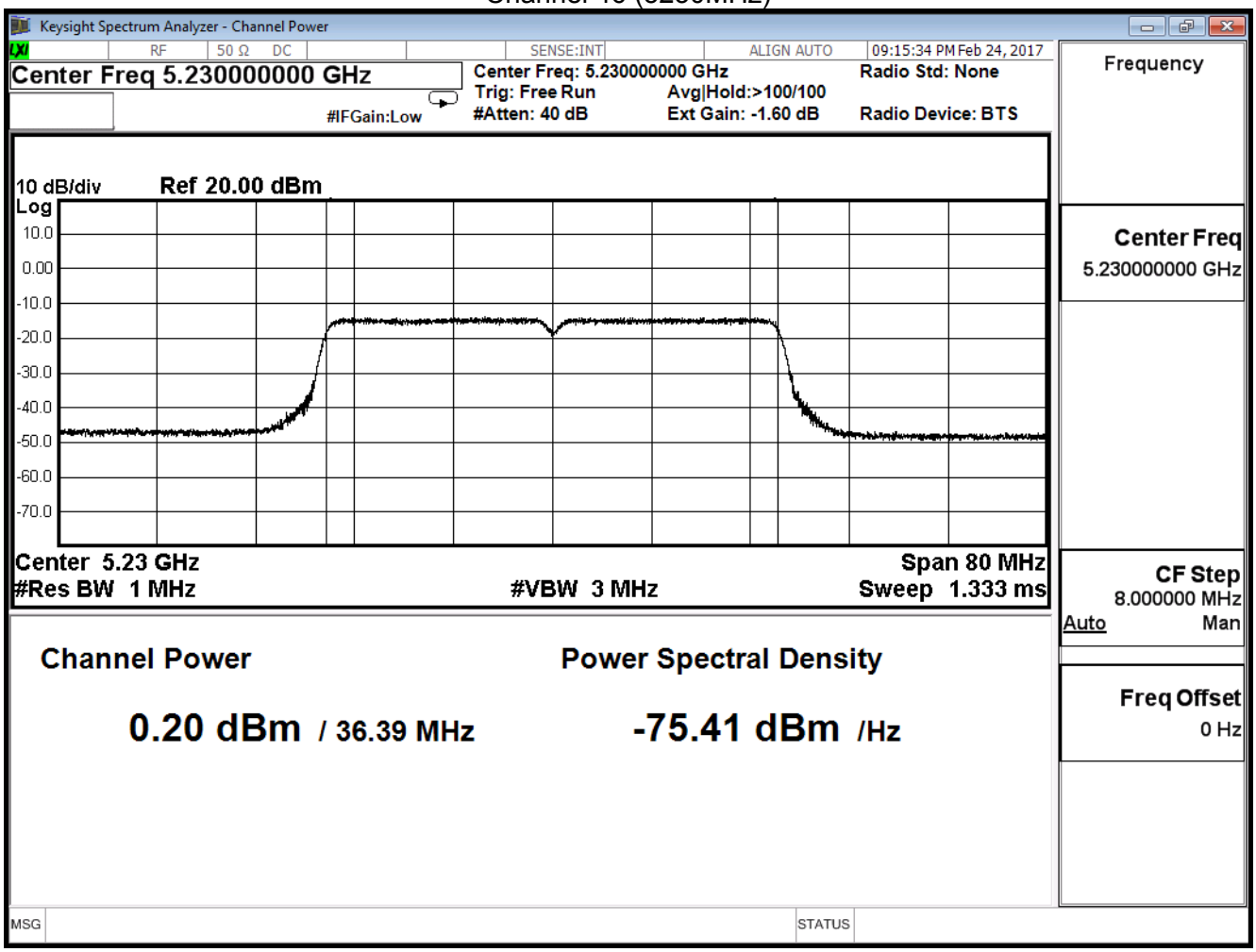
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	-0.13	--	--	--	--	--	--	--	--	--	≦22.75
46	5230	0.20	0.00	-0.10	-0.30	-0.40	-0.52	-0.76	-1.00	-1.29	-1.98	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

Channel 38 (5190MHz)



Channel 46 (5230MHz)



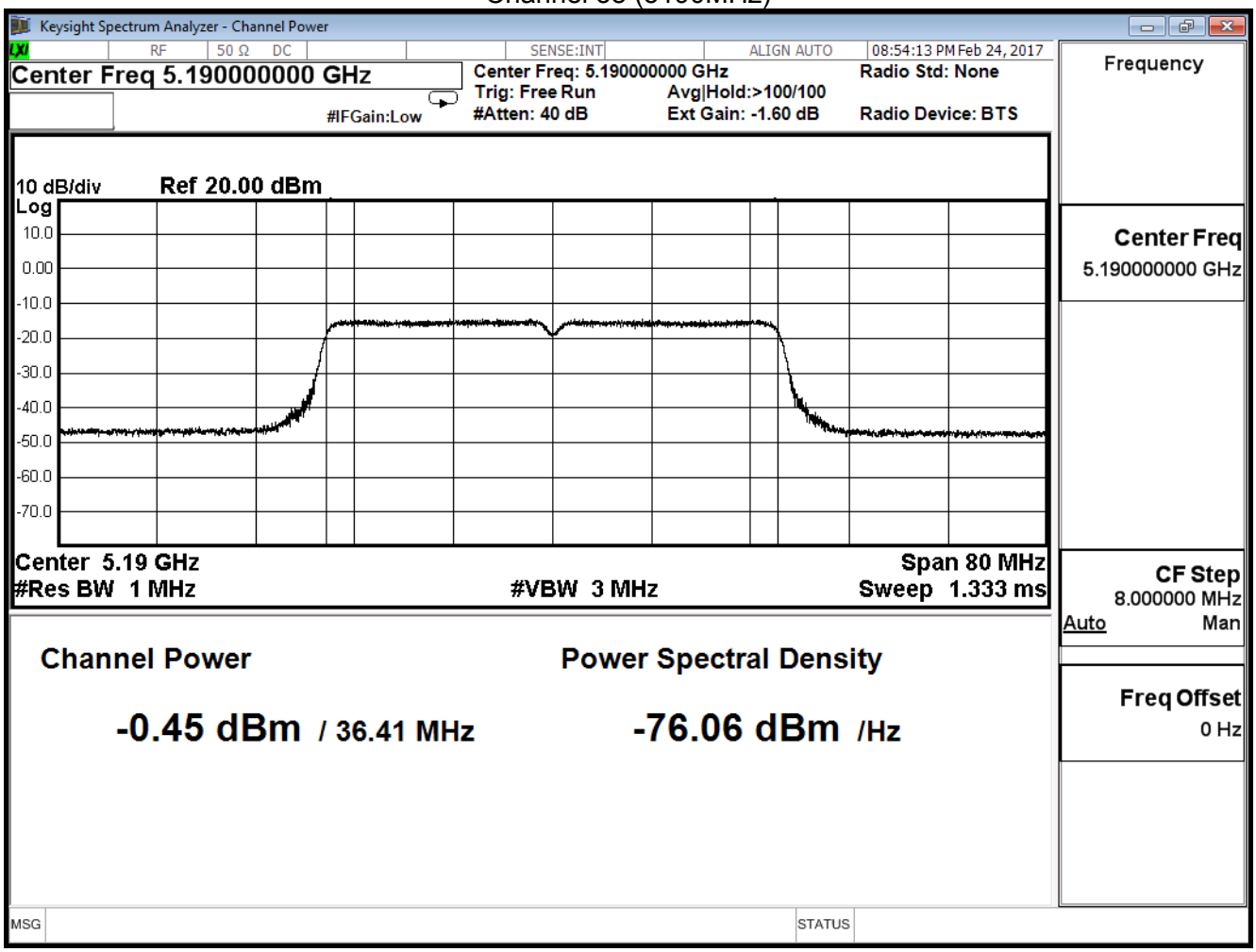
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	-0.45	≦22.75
46	5230	0.41	≦22.75

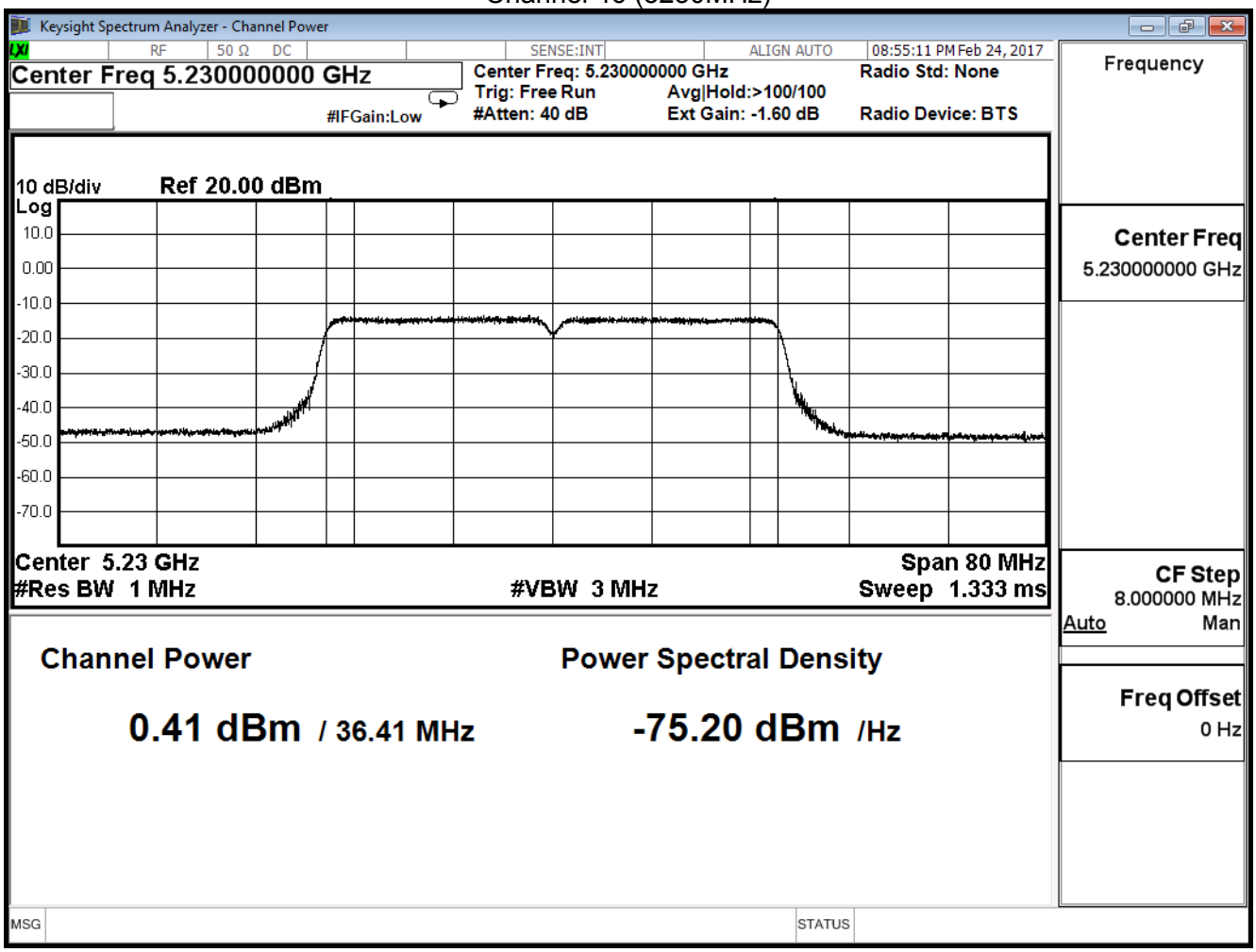
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	-0.45	--	--	--	--	--	--	--	--	--	≦22.75
46	5230	0.41	0.39	0.31	0.21	0.01	-0.19	-0.43	-0.67	-0.79	-1.22	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	2.72	≦22.75
46	5230	3.32	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

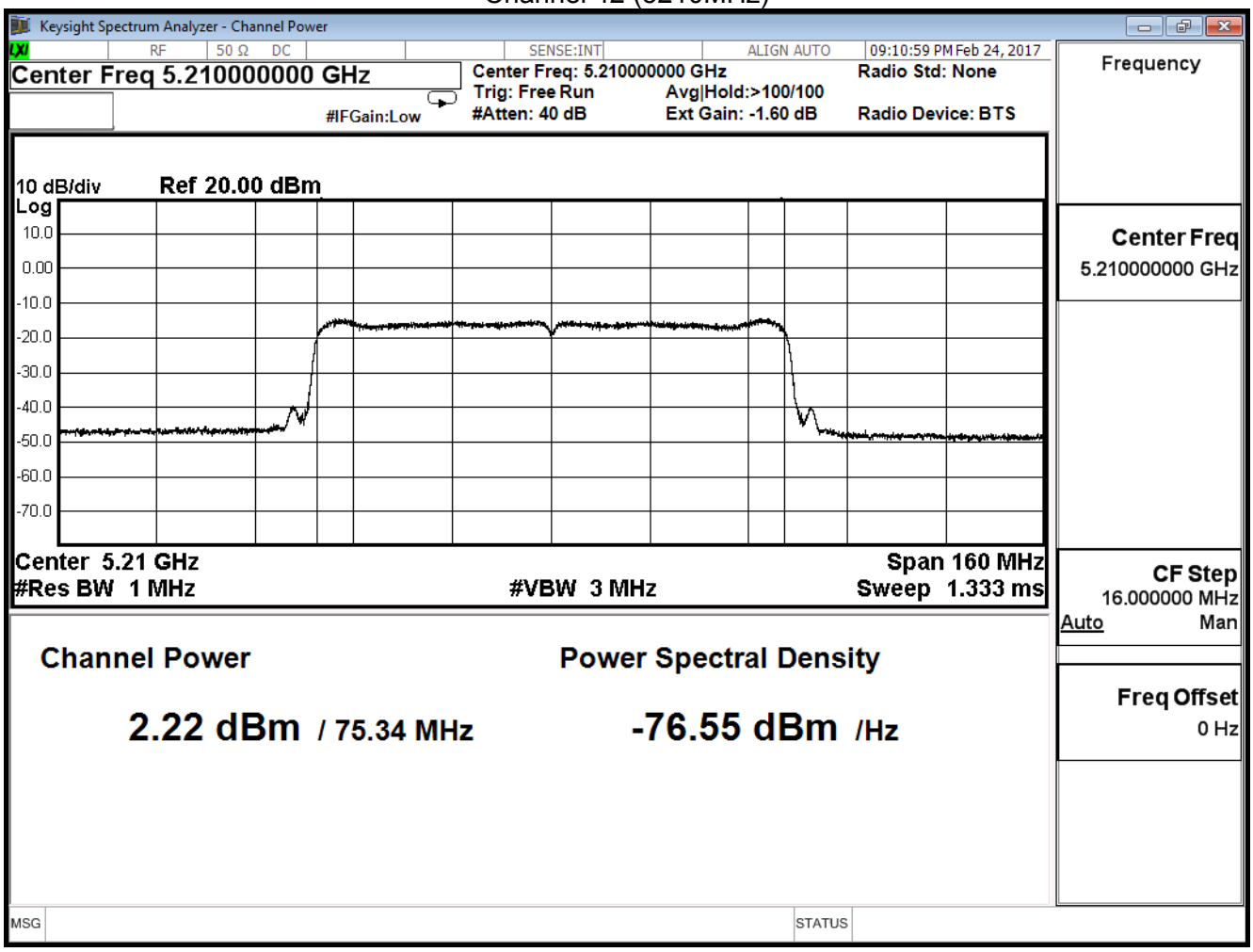
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR7

IEEE 802.11ac 80M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	2.20	≦22.75

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
42	5210	2.20	2.00	1.80	1.60	1.40	1.30	1.18	0.94	0.82	0.58	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

Channel 42 (5210MHz)



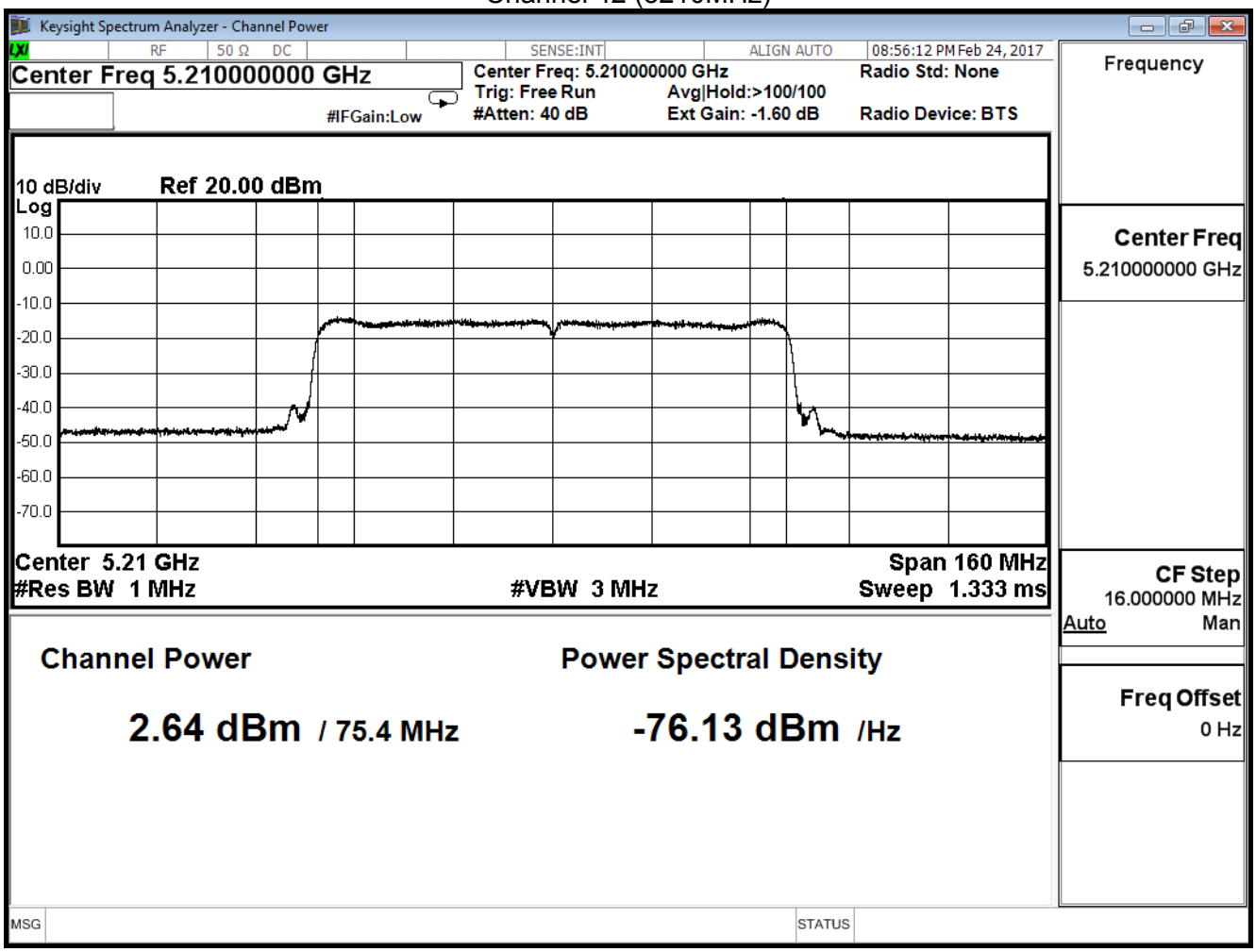
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	2.64	≦22.75

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
42	5210	2.64	2.54	2.44	2.24	2.04	1.84	1.60	1.36	1.12	1.00	≦22.75

Note:
Required Limit=30dBm-(30.25dBi-23dBi)=22.75dBm

Channel 42 (5210MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	5.45	≦22.75

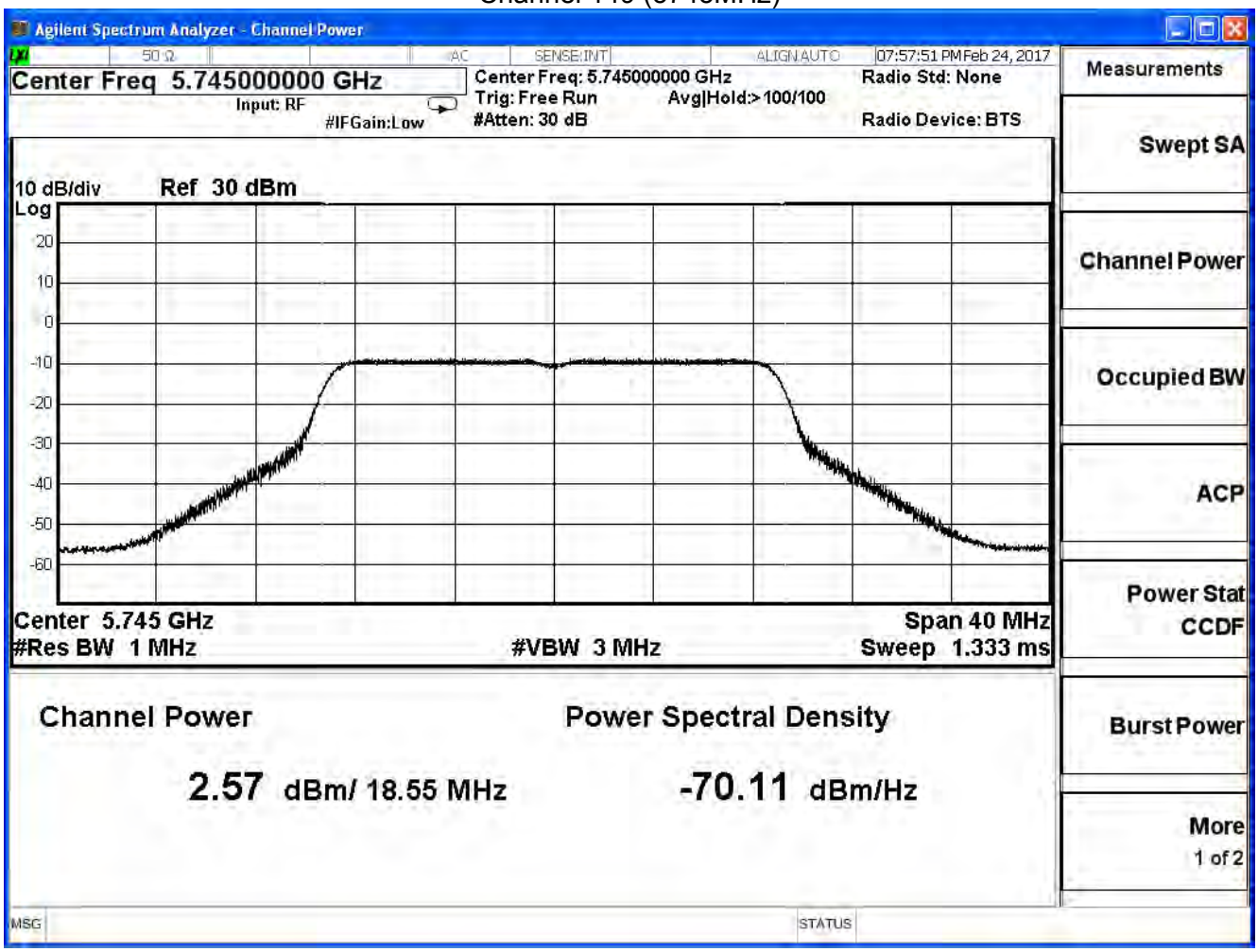
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac (20M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	2.57	≦5.75
157	5785	2.37	≦5.75
165	5825	2.51	≦5.75

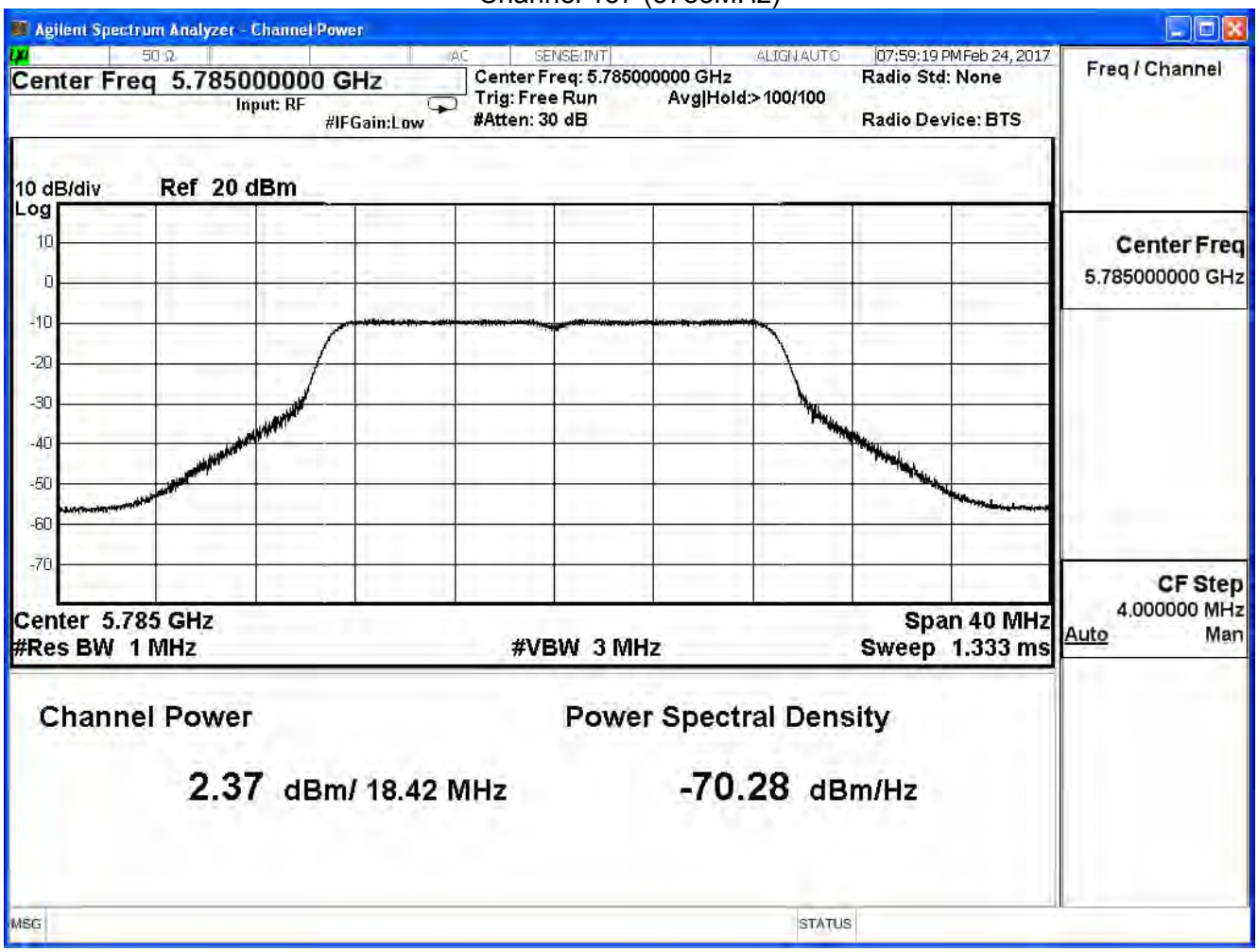
Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
149	5745	2.57	--	--	--	--	--	--	--	--	≦5.75
157	5785	2.37	2.15	2.05	1.95	1.71	1.59	1.44	1.20	0.96	≦5.75
165	5825	2.51	--	--	--	--	--	--	--	--	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

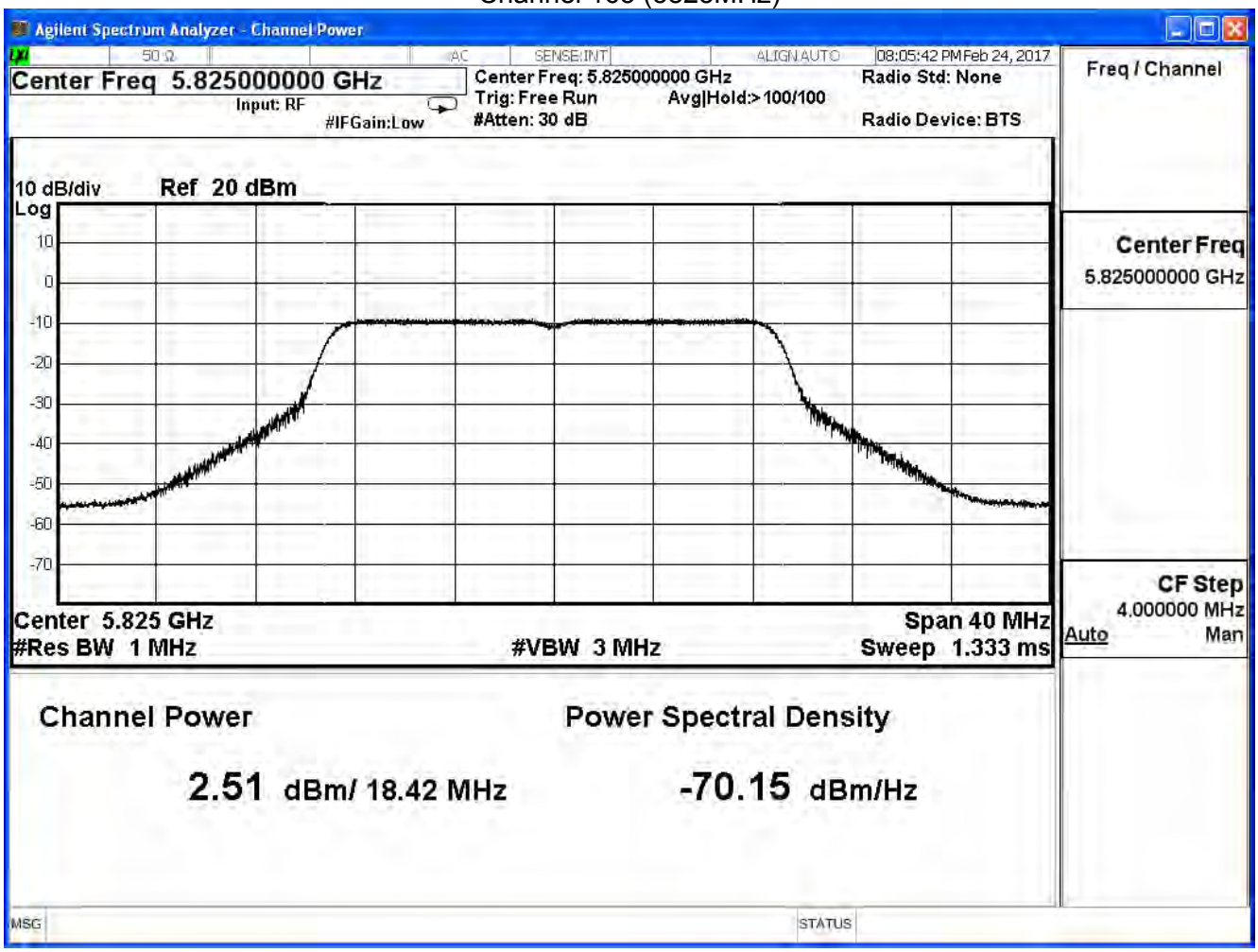
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



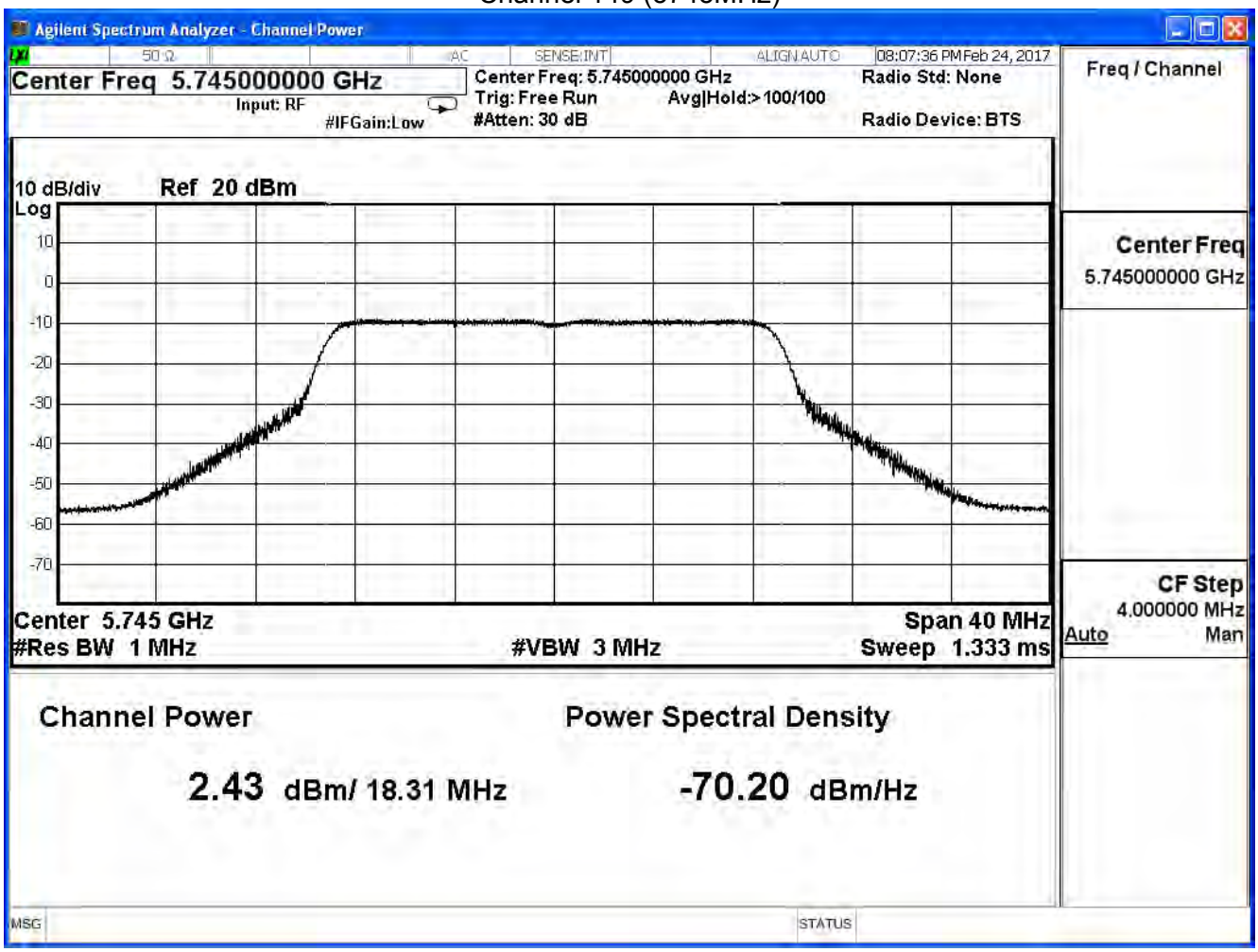
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11AC (20M) (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	2.43	≦5.75
157	5785	2.51	≦5.75
165	5825	2.46	≦5.75

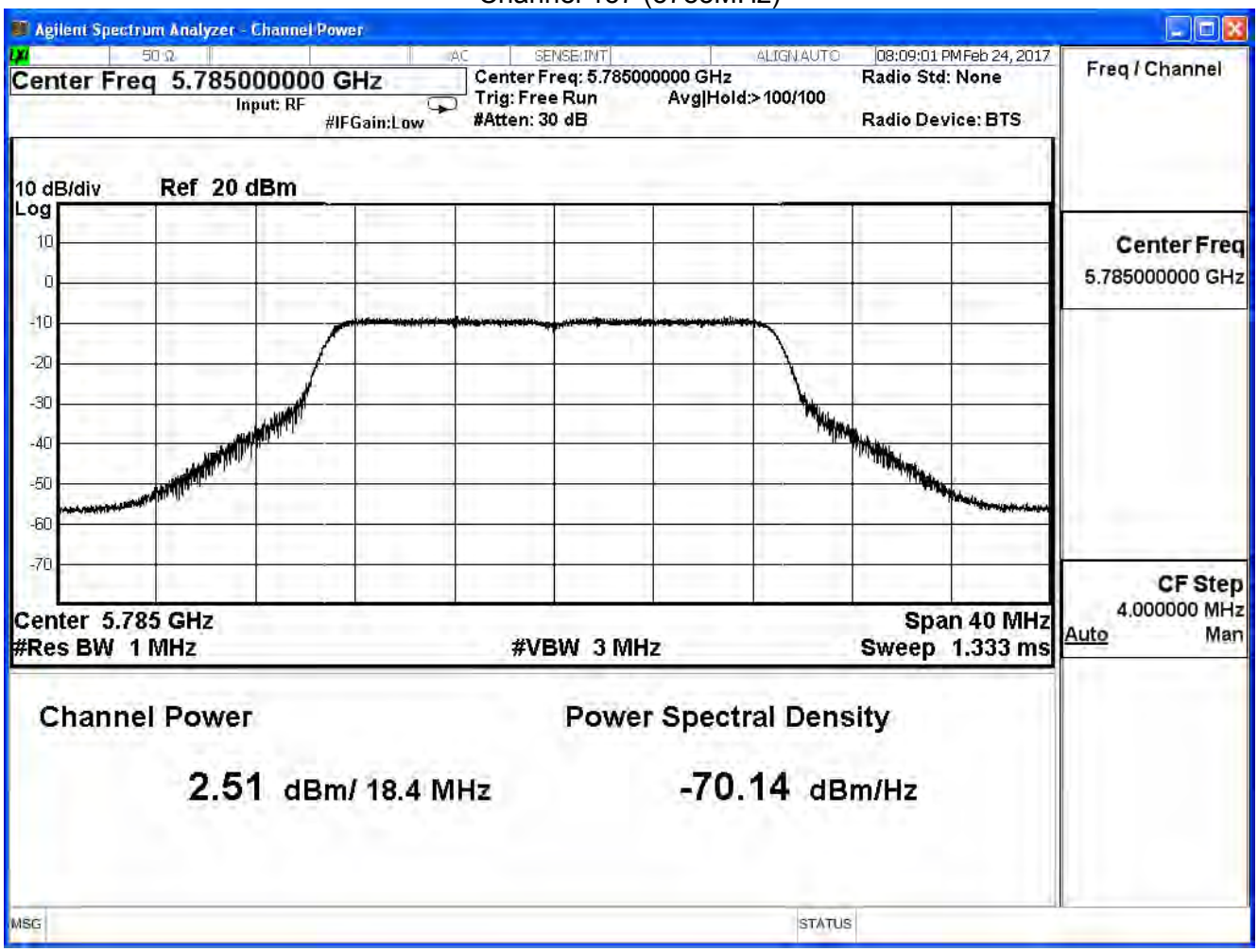
Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
149	5745	2.43	--	--	--	--	--	--	--	--	≦5.75
157	5785	2.51	2.31	2.07	1.97	1.77	1.64	1.40	1.16	0.92	≦5.75
165	5825	2.46	--	--	--	--	--	--	--	--	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

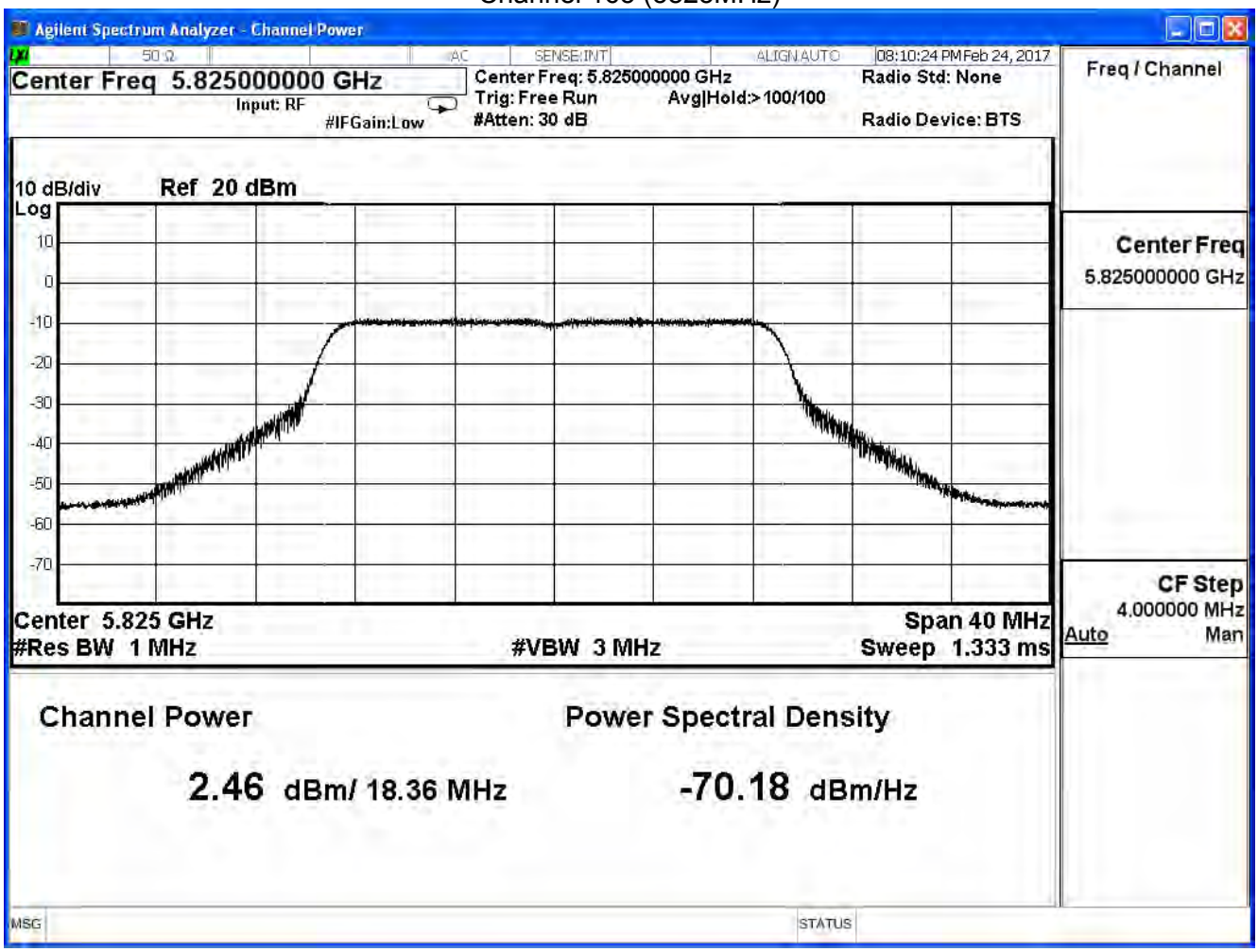
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac (20M) (ANT0+ 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	5.51	≦5.75
157	5785	5.45	≦5.75
165	5825	5.50	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

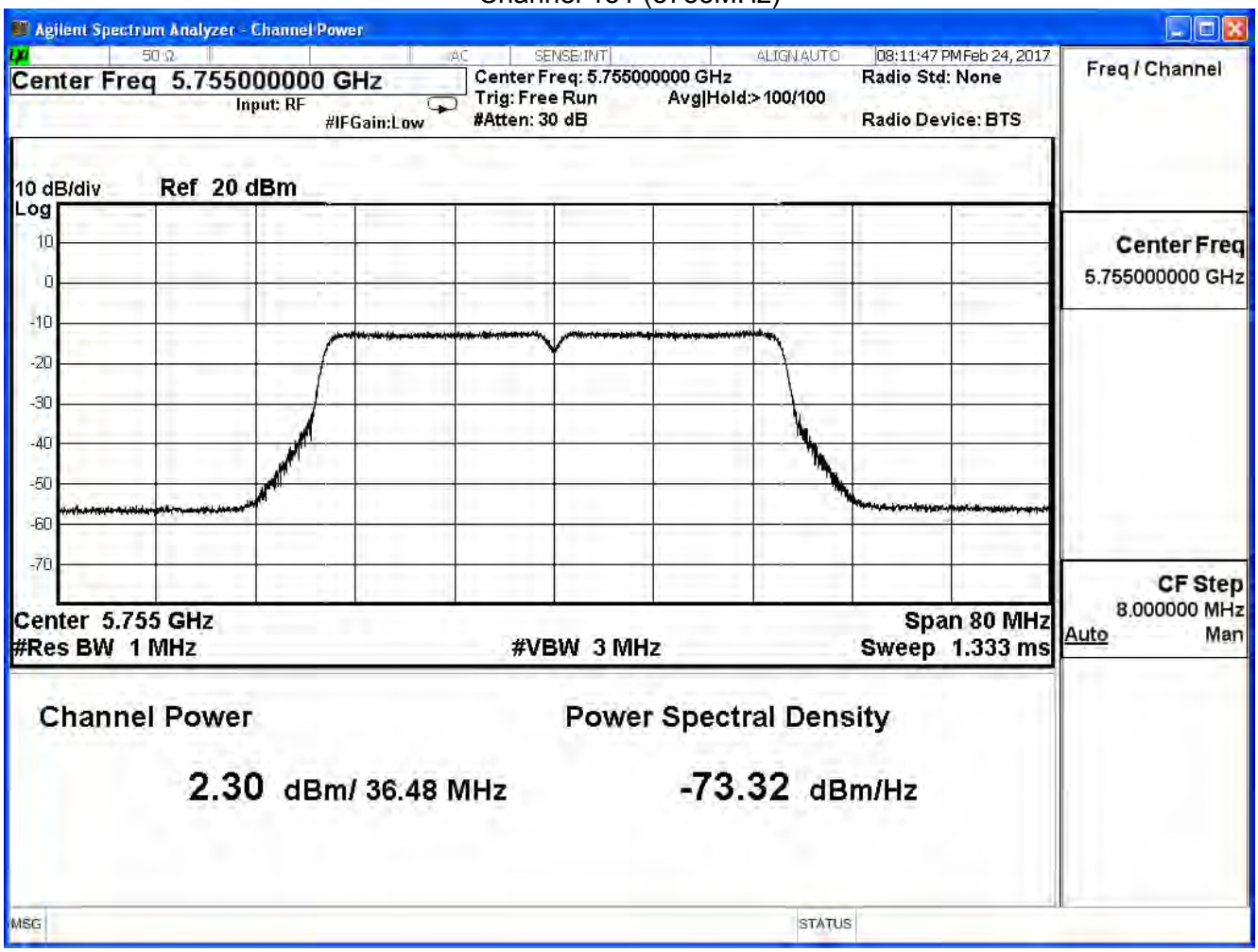
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	2.30	≦5.75
159	5795	2.58	≦5.75

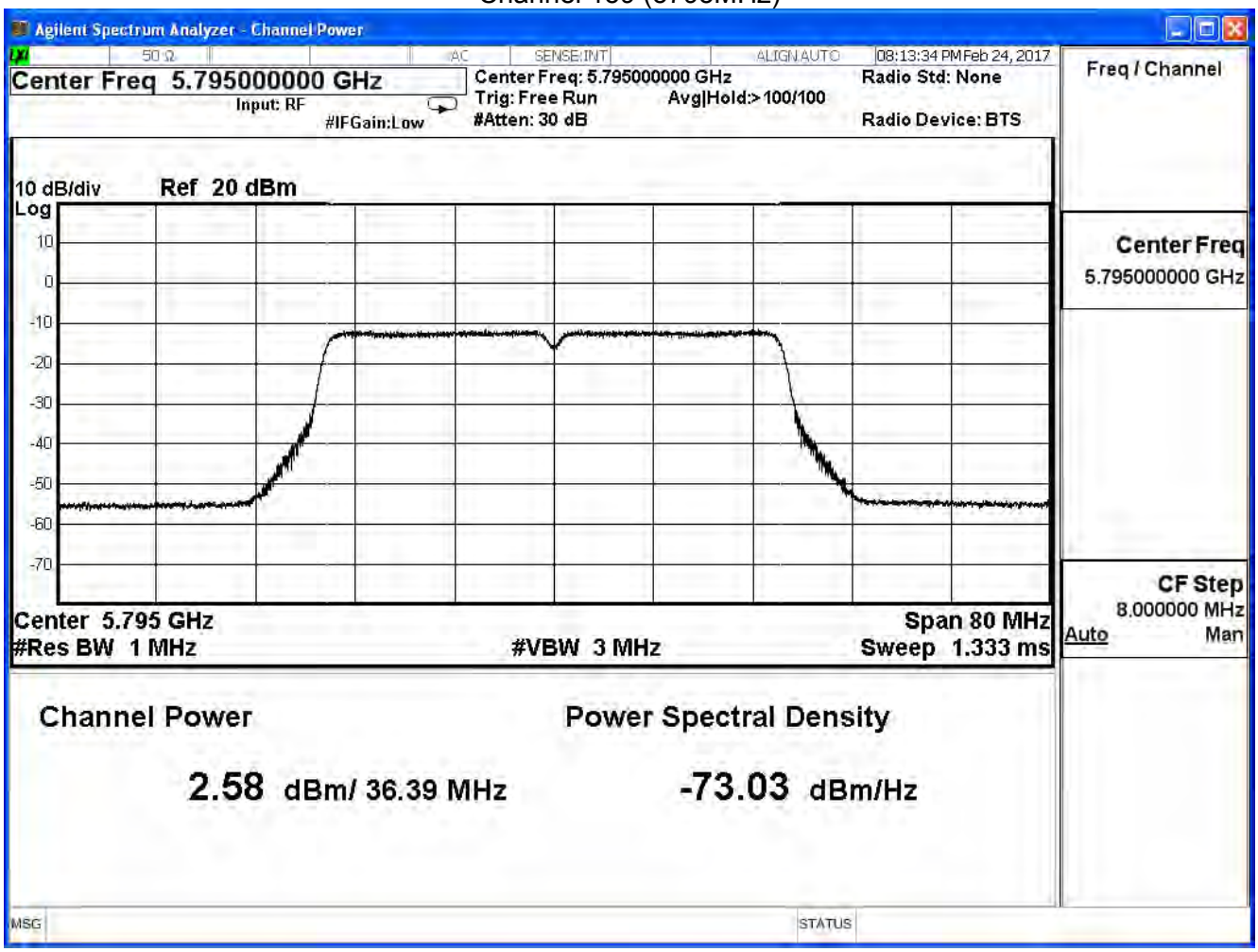
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
151	5755	2.30	--	--	--	--	--	--	--	--	--	≦5.75
159	5795	2.58	2.36	2.16	1.96	1.84	1.60	1.30	1.18	2.58	2.36	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

Channel 151 (5755MHz)



Channel 159 (5795MHz)



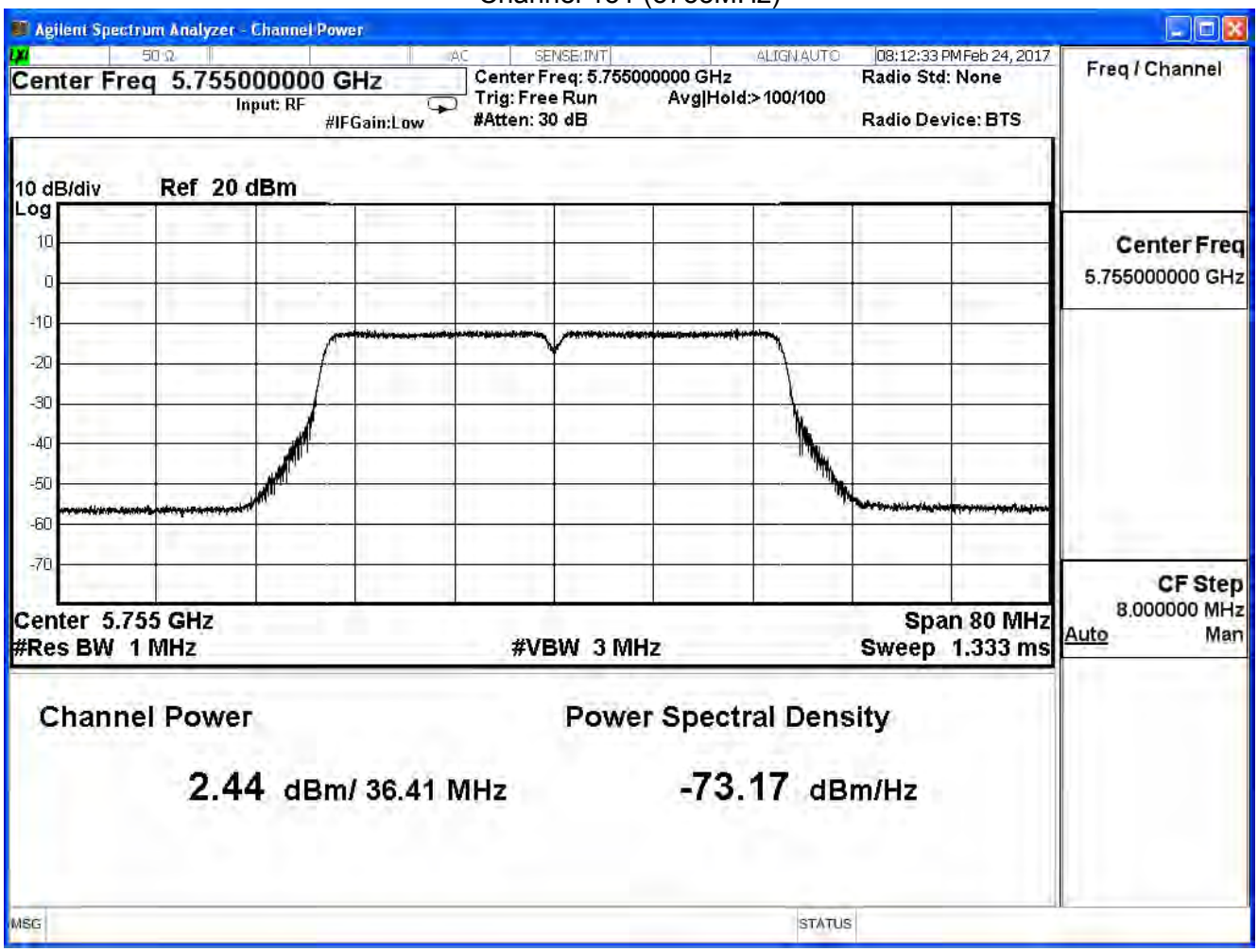
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	2.44	≦5.75
159	5795	2.44	≦5.75

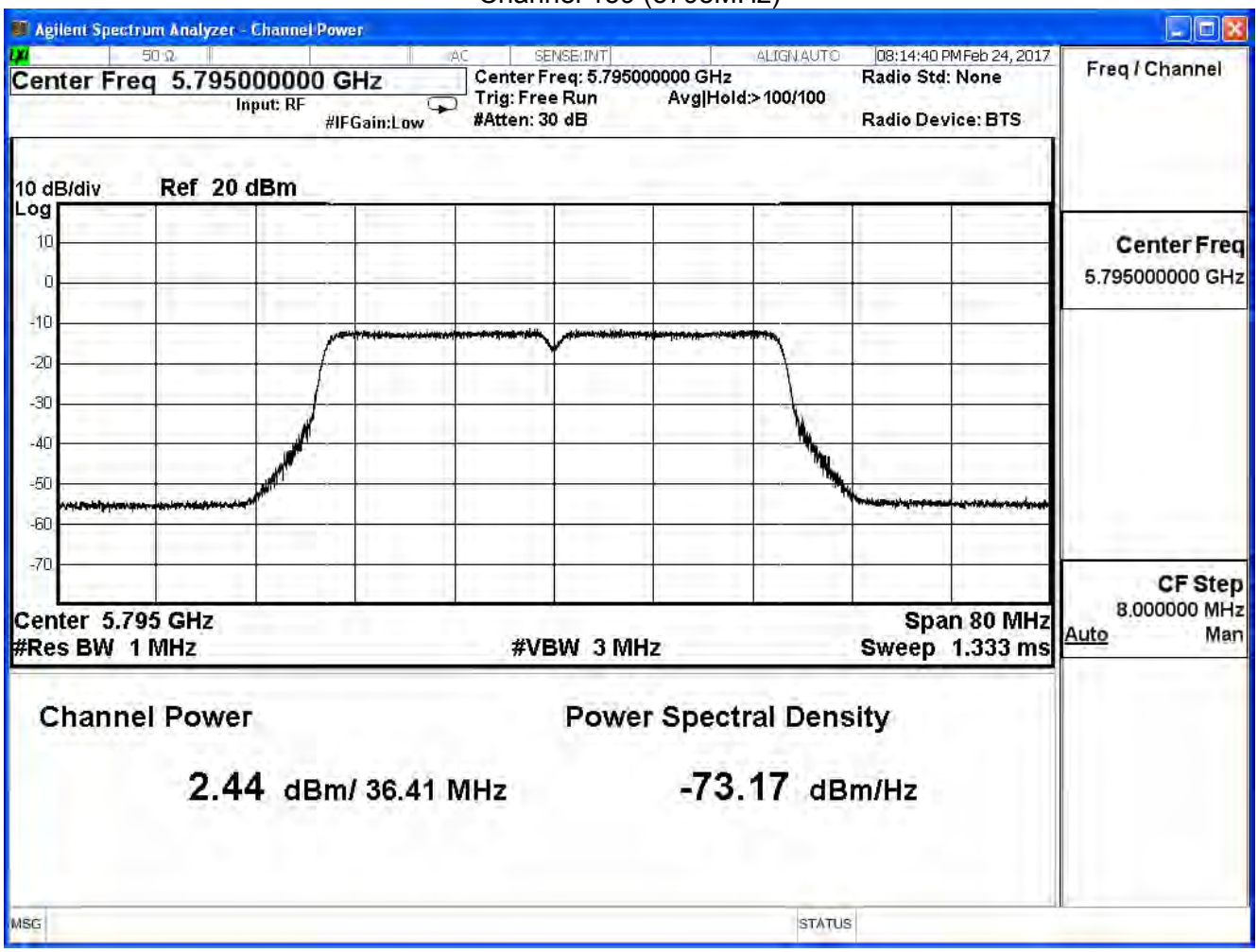
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
151	5755	2.44	--	--	--	--	--	--	--	--	--	≦5.75
159	5795	2.44	2.34	2.22	2.02	1.82	1.69	1.57	1.45	1.33	2.44	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	5.38	≦5.75
159	5795	5.52	≦5.75

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

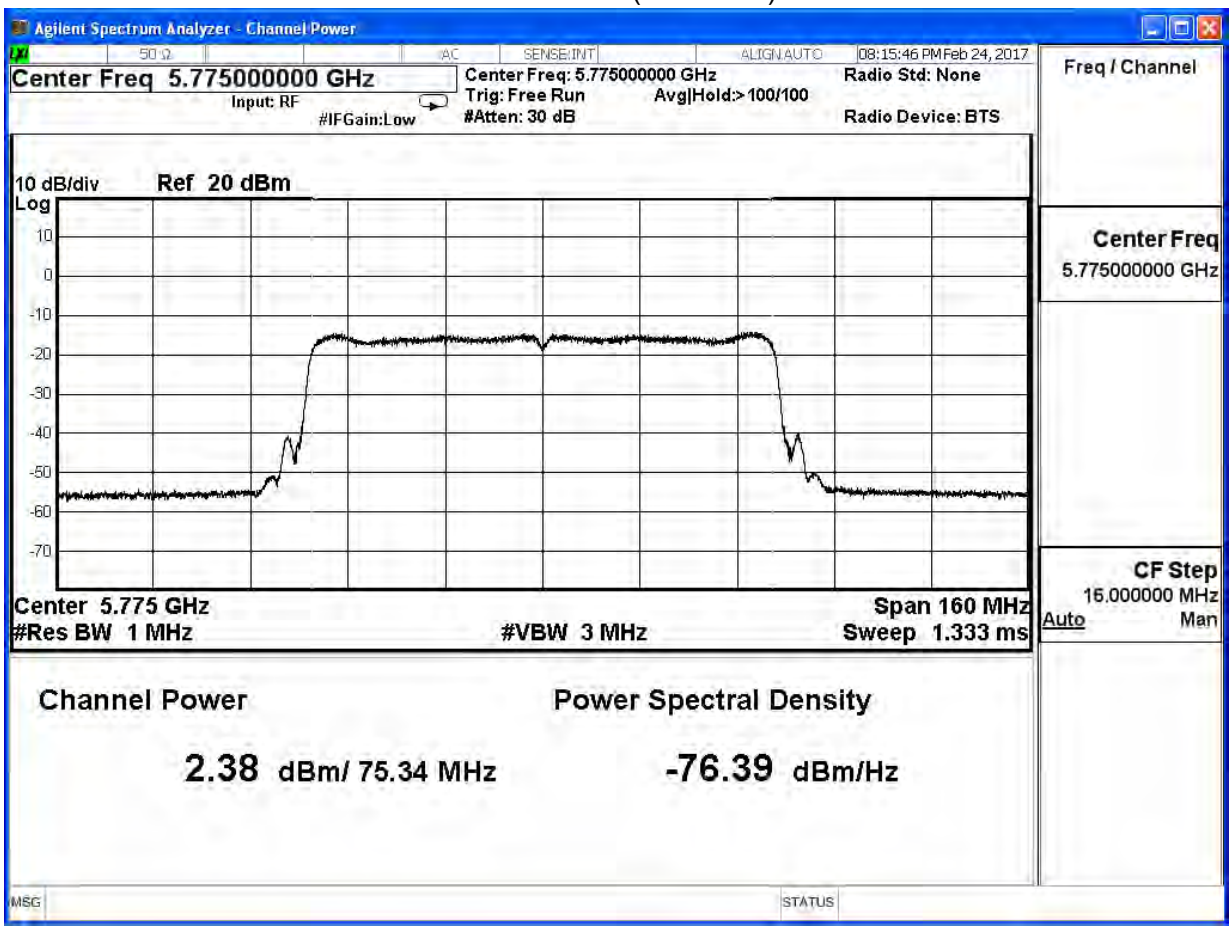
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	2.38	≦5.75

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦5.75
155	5775	2.38	2.28	2.18	2.08	1.88	1.68	1.44	1.20	1.08	0.96	

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

Channel 155 (5775MHz)



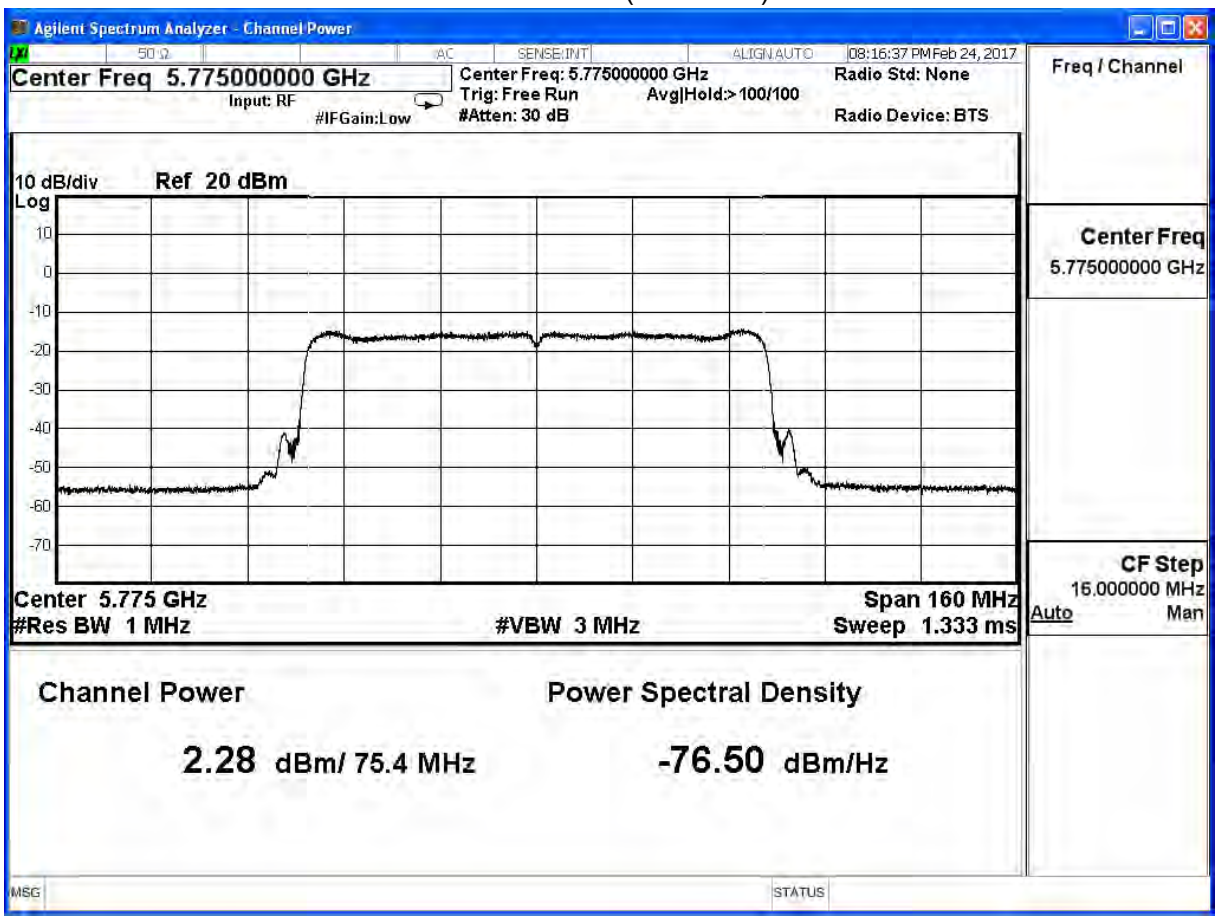
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	2.28	≦5.75

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦5.75
155	5775	2.28	2.18	2.08	1.88	1.68	1.48	1.36	1.12	1.00	0.88	

Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

Channel 155 (5775MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	5.34	≦5.75

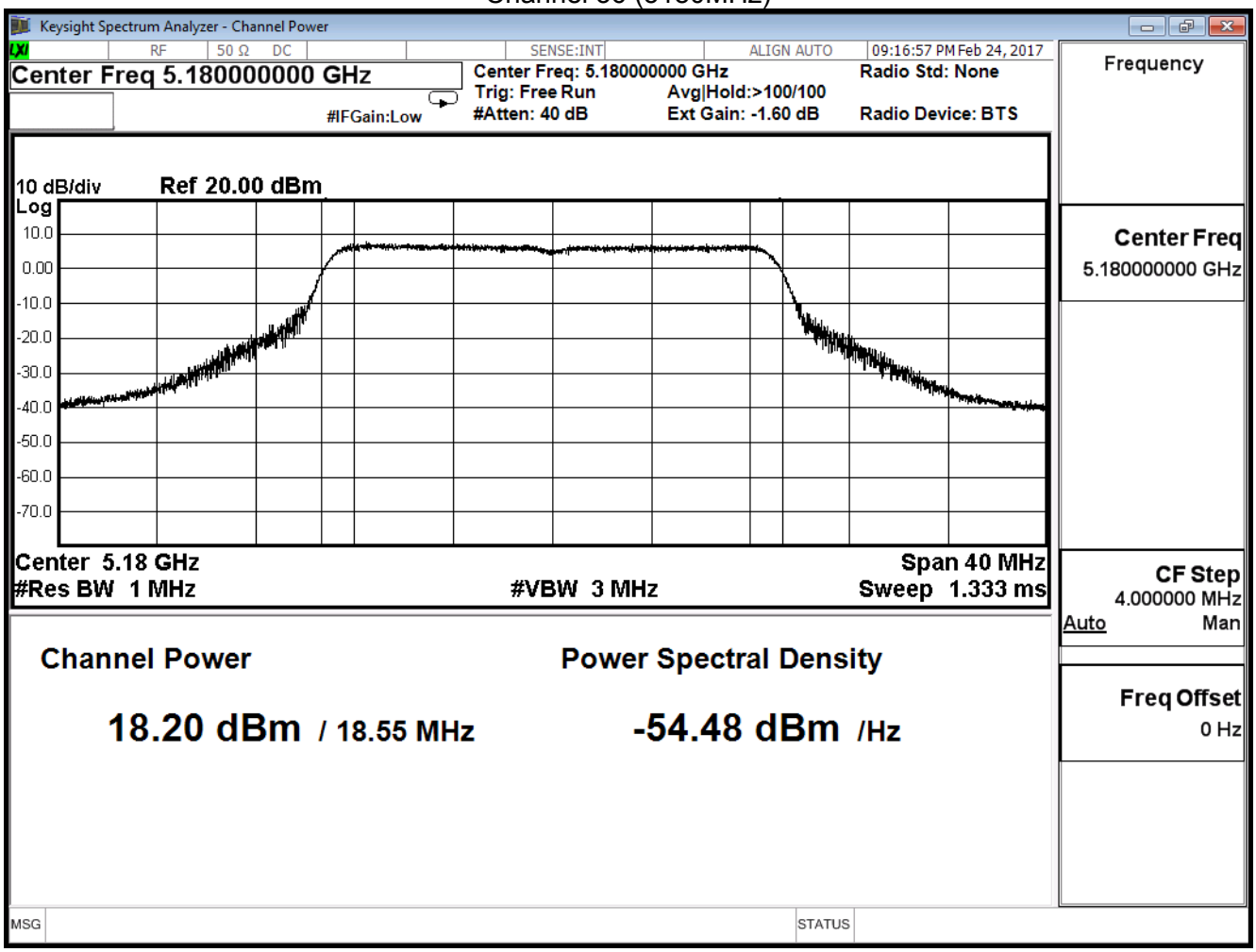
Note:
Required Limit=30dBm-(30.25dBi-6dBi)=5.75dBm

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

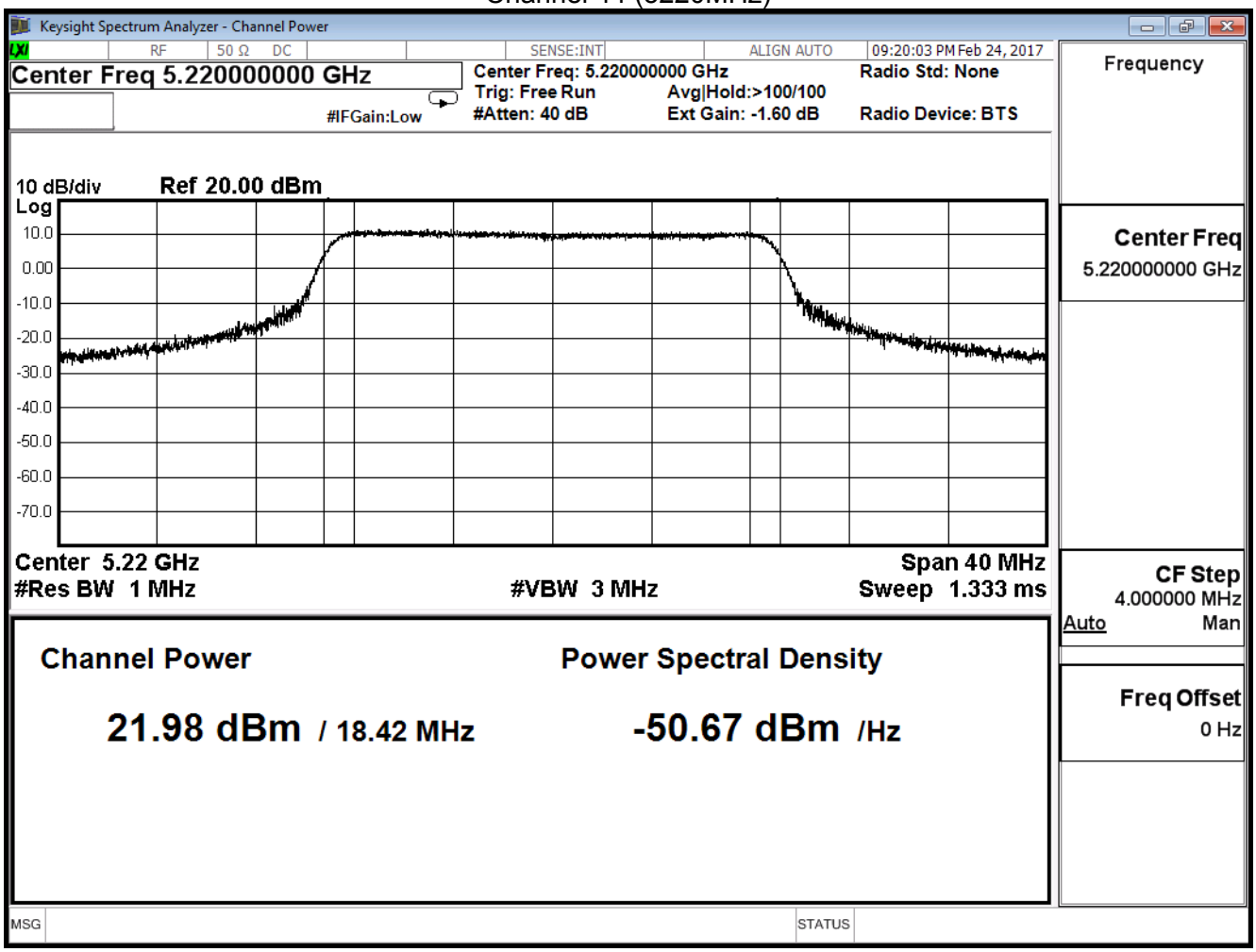
IEEE 802.11ac (20M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	18.20	≦30
44	5220	21.98	≦30
48	5240	22.03	≦30

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
36	5180	18.20	--	--	--	--	--	--	--	--	≦30
44	5220	21.98	21.88	21.78	21.58	21.48	21.36	21.12	20.80	20.05	≦30
48	5240	22.03	--	--	--	--	--	--	--	--	≦30

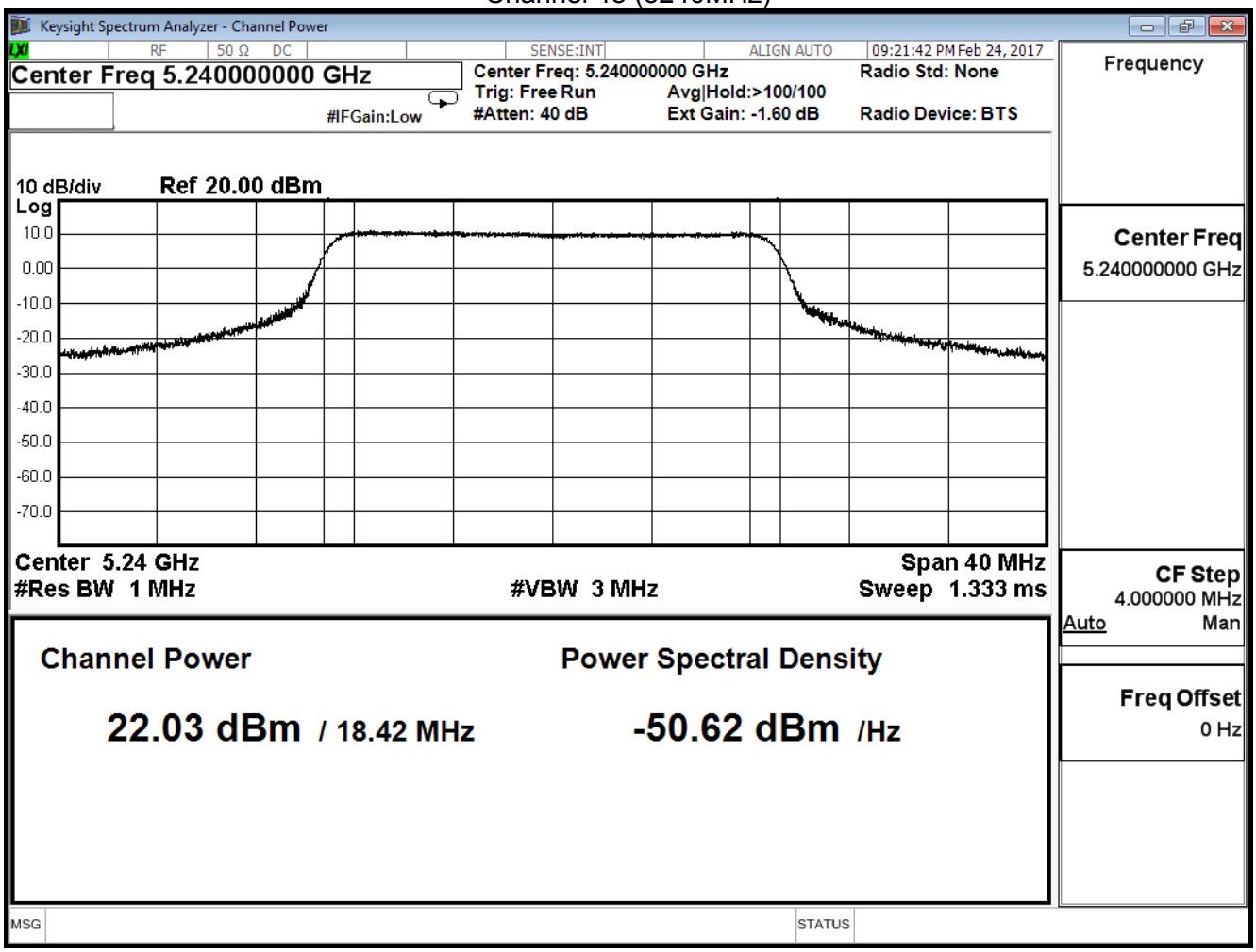
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

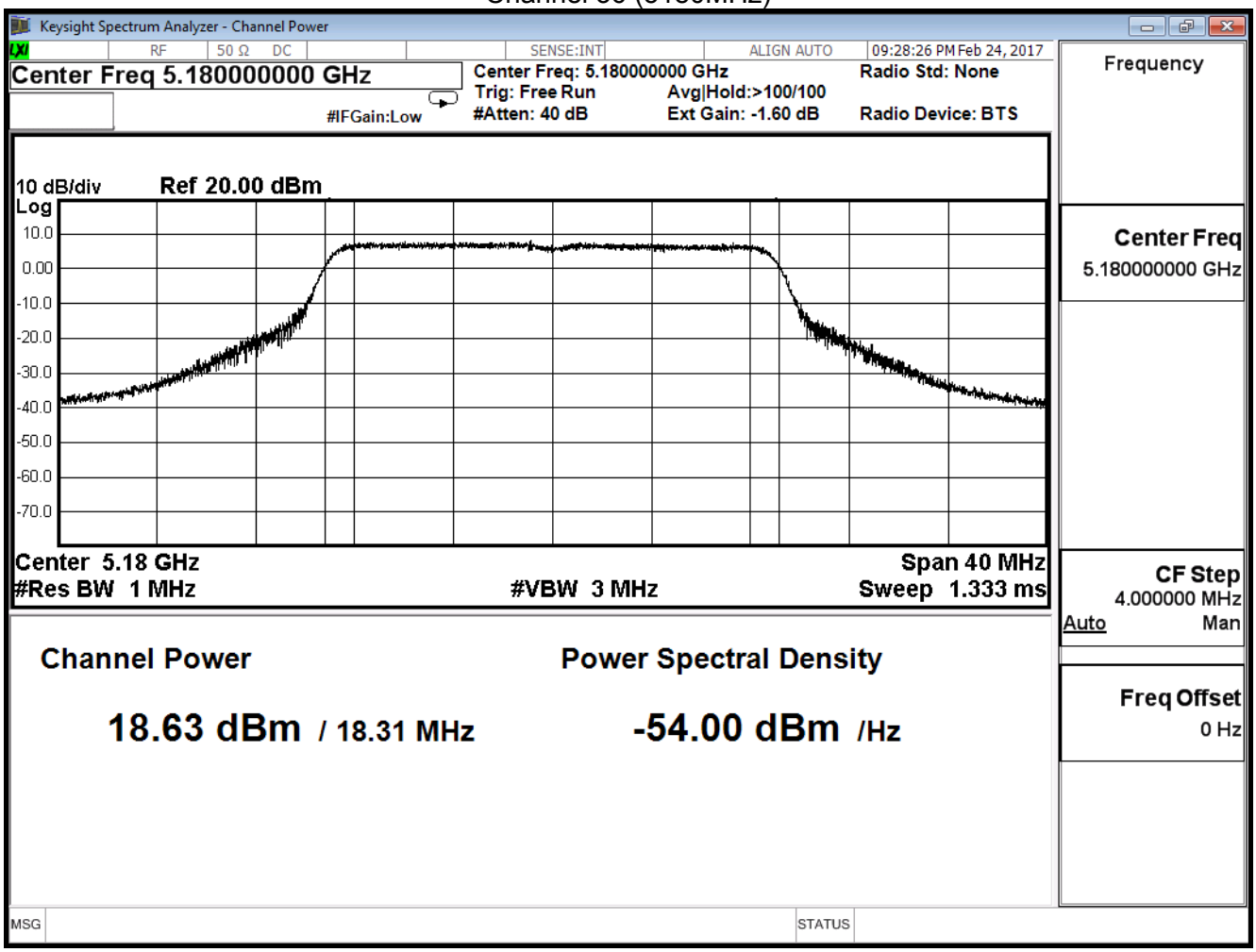


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

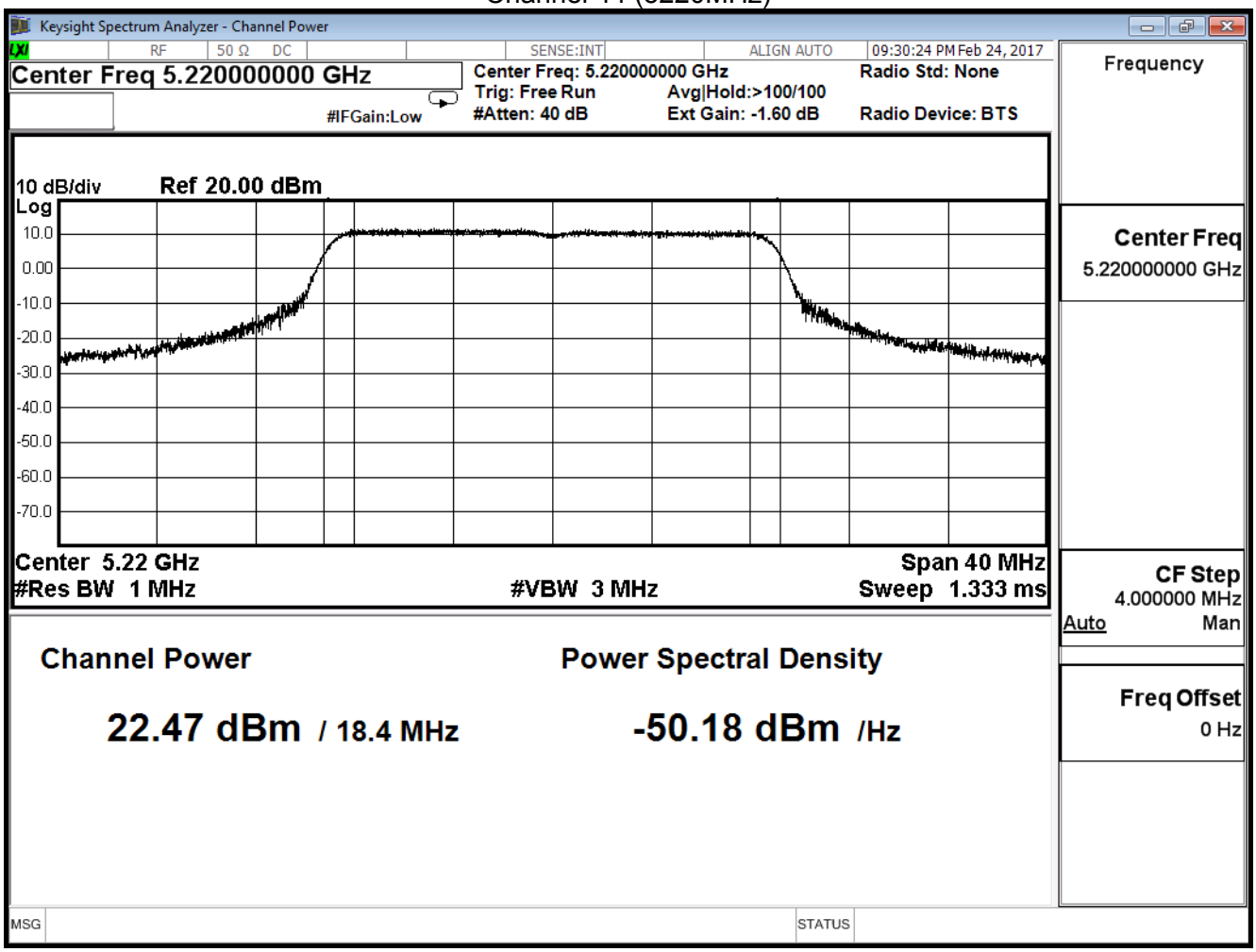
IEEE 802.11AC (20M) (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	18.63	≦30
44	5220	22.47	≦30
48	5240	22.32	≦30

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
36	5180	18.63	--	--	--	--	--	--	--	--	≦30
44	5220	22.47	22.27	22.17	22.07	21.97	21.85	21.61	21.07	20.54	≦30
48	5240	22.32	--	--	--	--	--	--	--	--	≦30

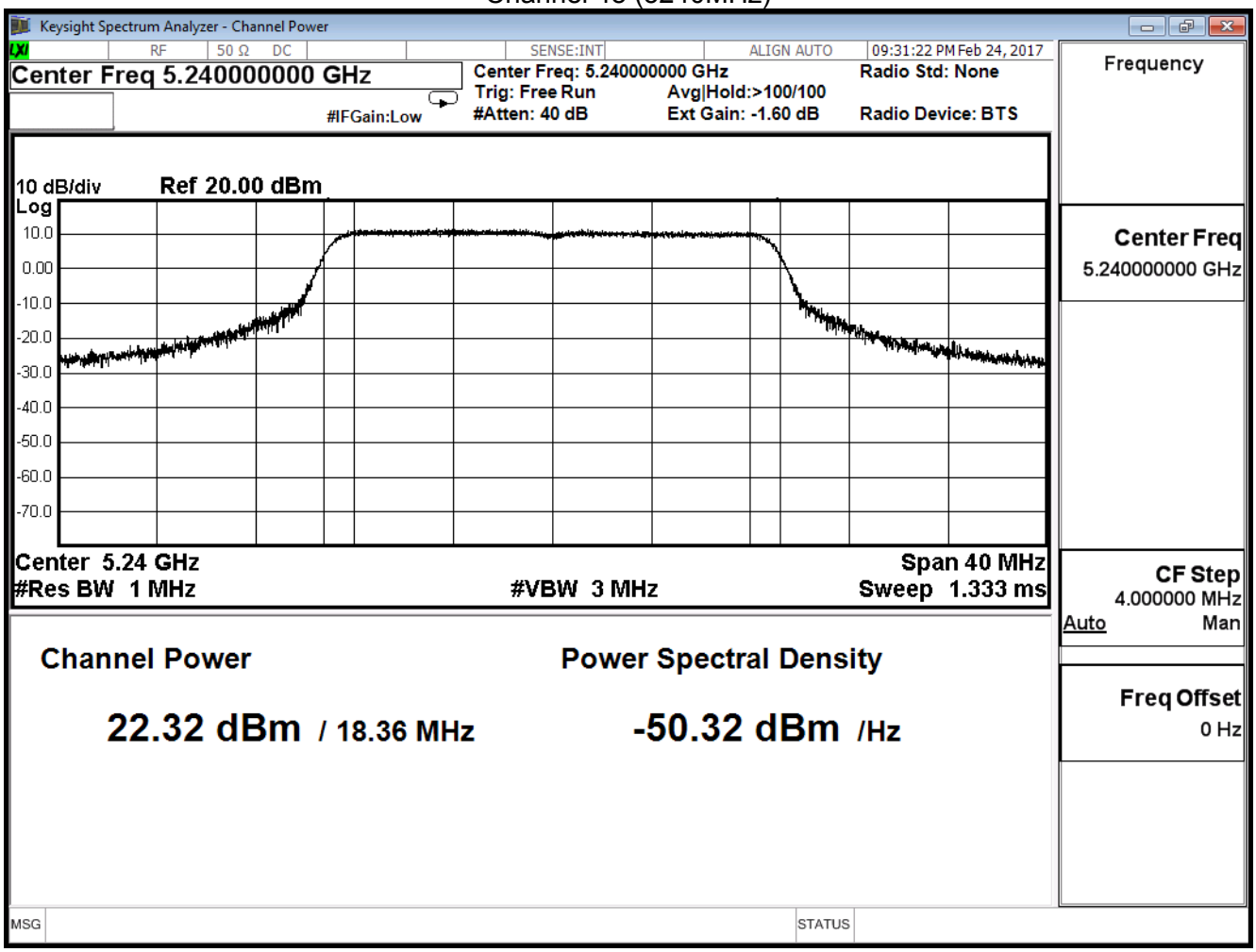
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

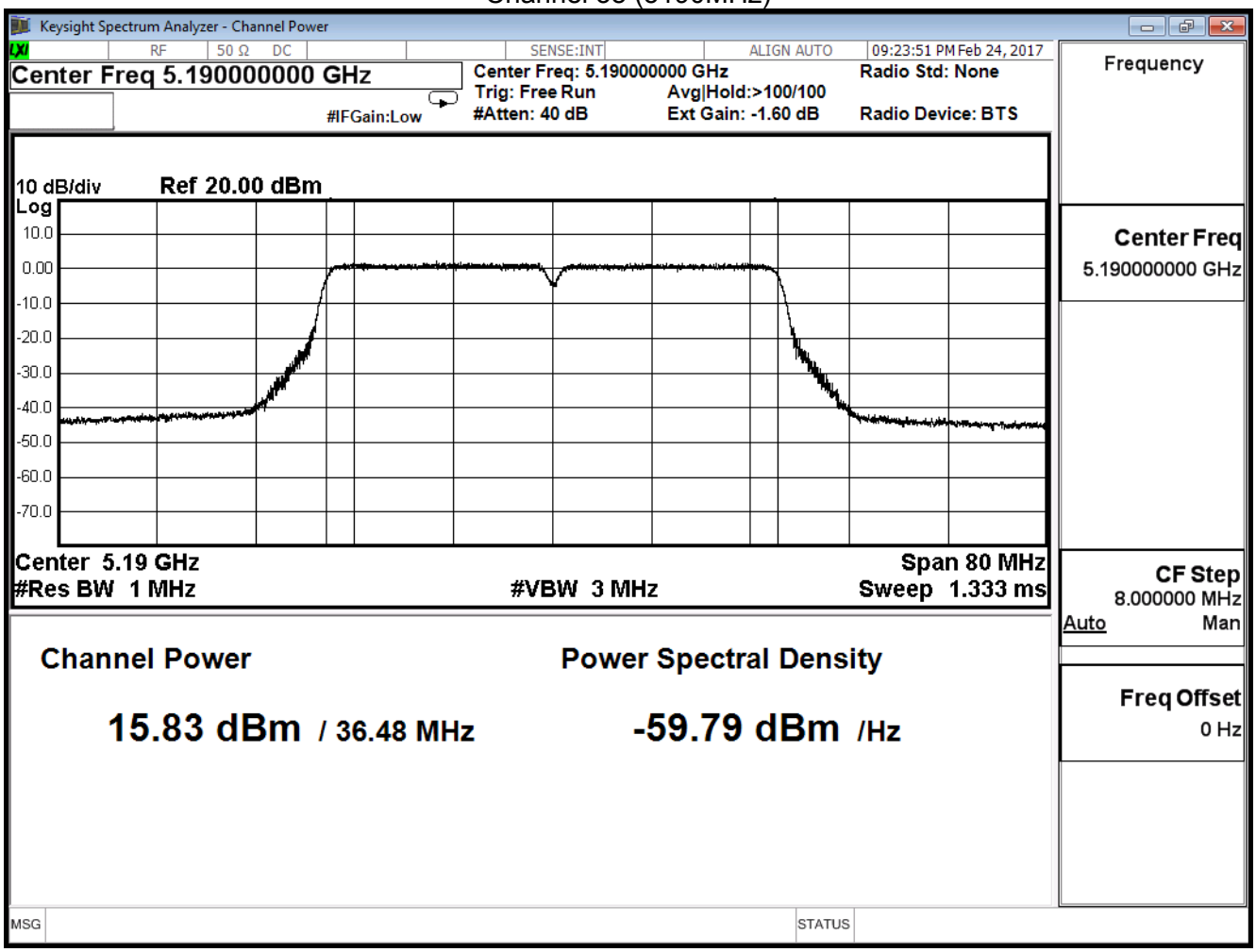
IEEE 802.11ac (20M) (ANT0+ 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	21.43	≦30
44	5220	25.24	≦30
48	5240	25.19	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

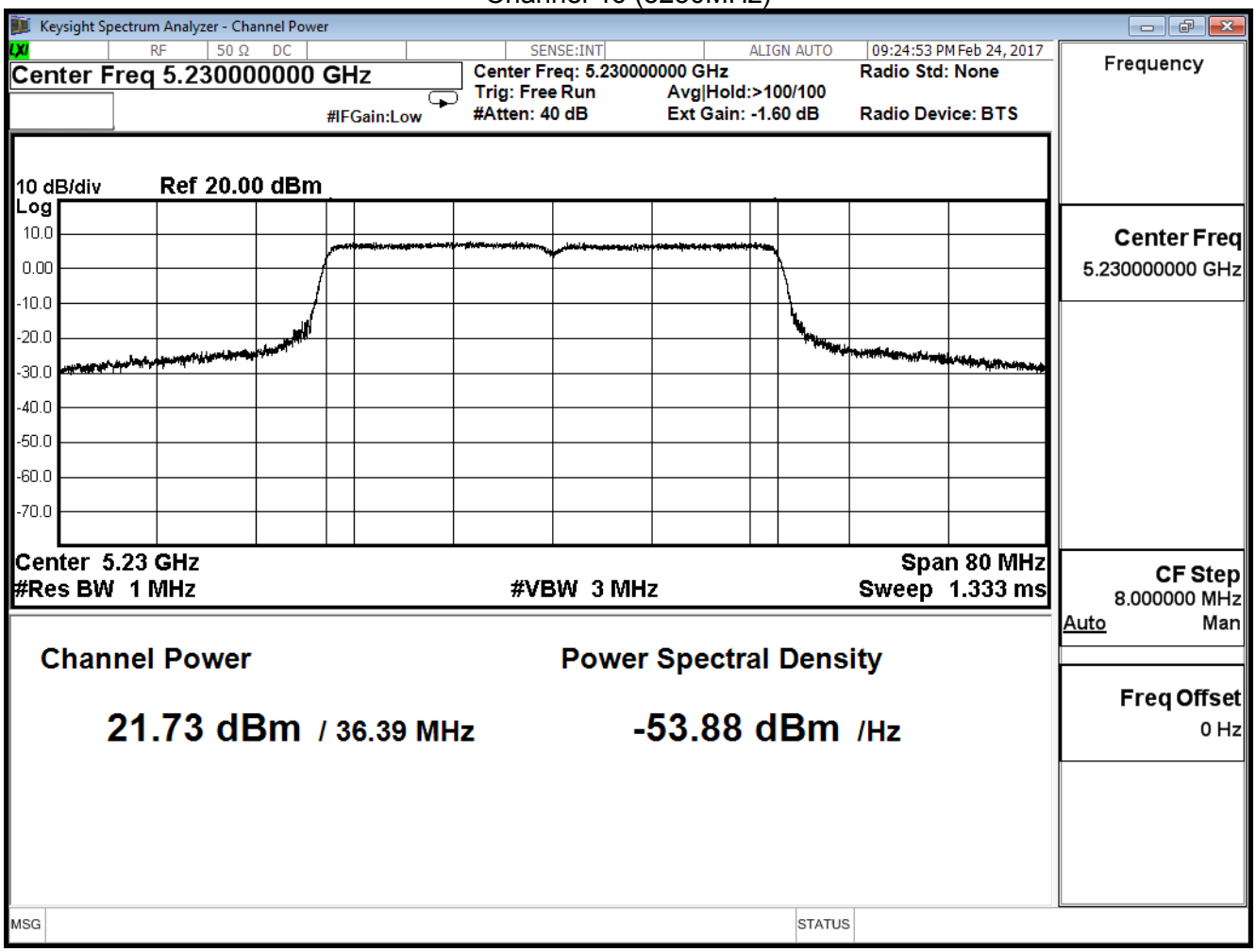
IEEE 802.11ac 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	15.83	≦30
46	5230	21.73	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	15.83	--	--	--	--	--	--	--	--	--	≦30
46	5230	21.73	21.63	21.43	21.23	21.13	20.89	20.65	20.41	20.03	19.82	≦30

Channel 38 (5190MHz)



Channel 46 (5230MHz)

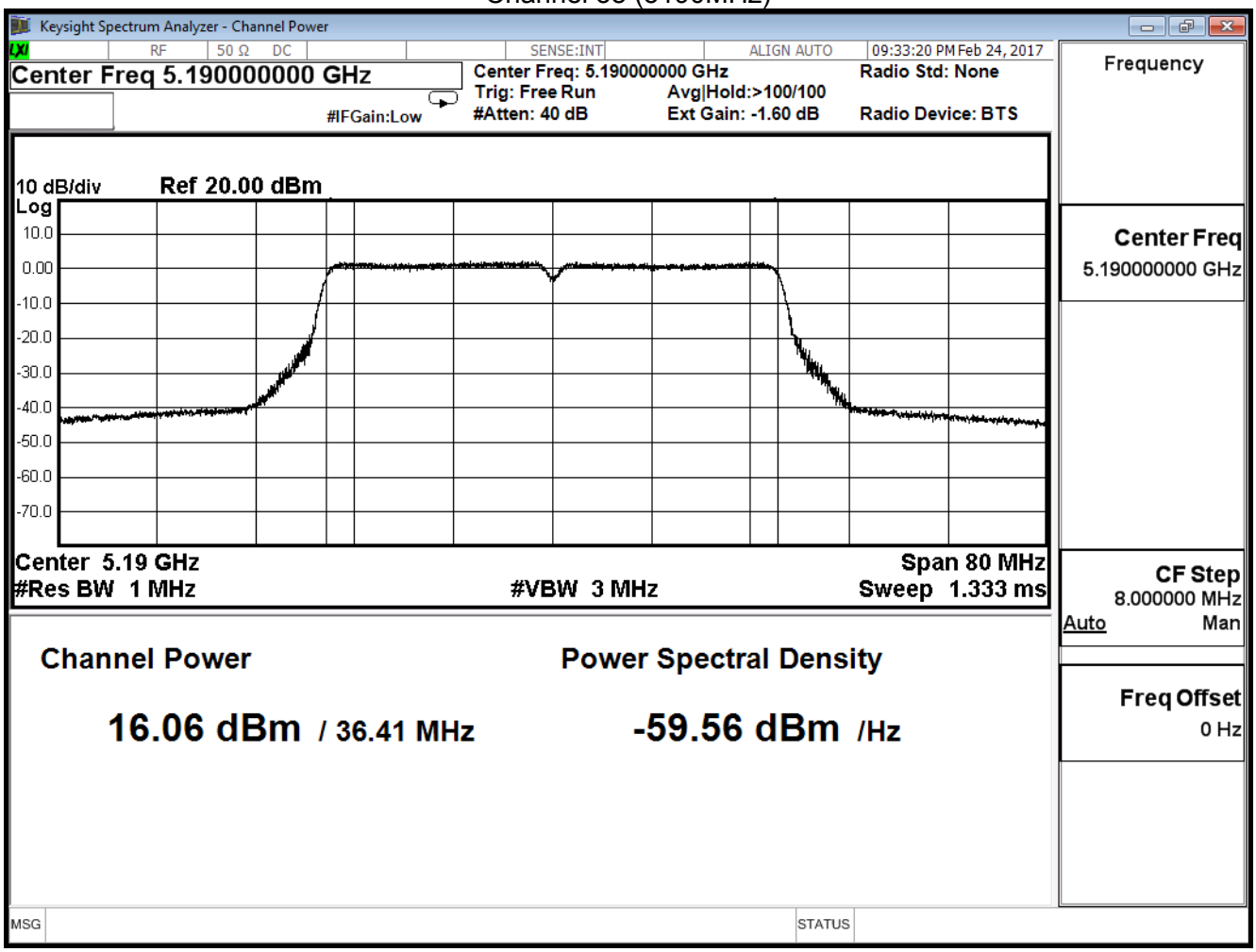


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

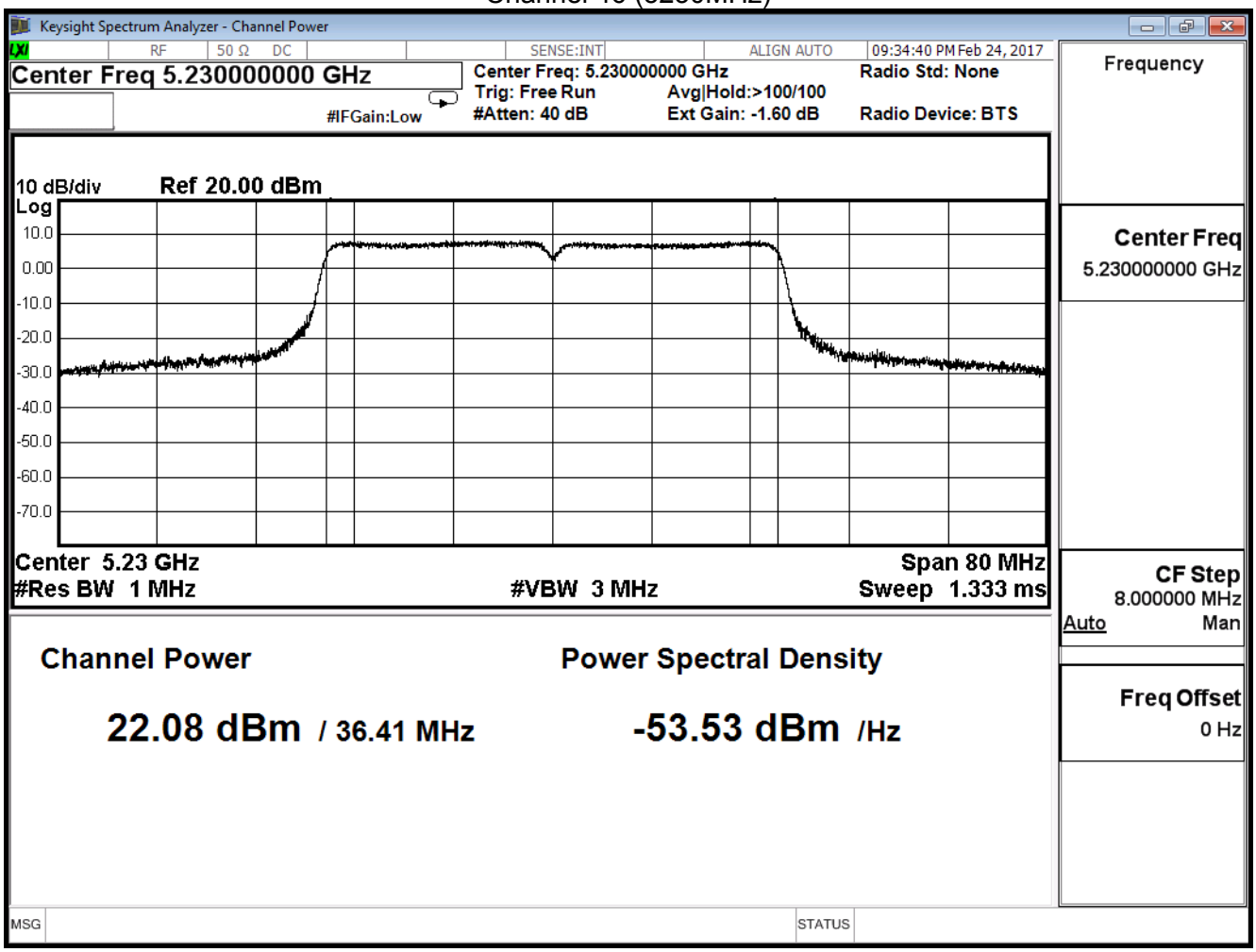
IEEE 802.11ac 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	16.06	≦30
46	5230	22.08	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	16.06	--	--	--	--	--	--	--	--	--	≦30
46	5230	22.08	21.88	21.78	21.68	21.48	21.24	21.12	20.88	20.11	19.85	≦30

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

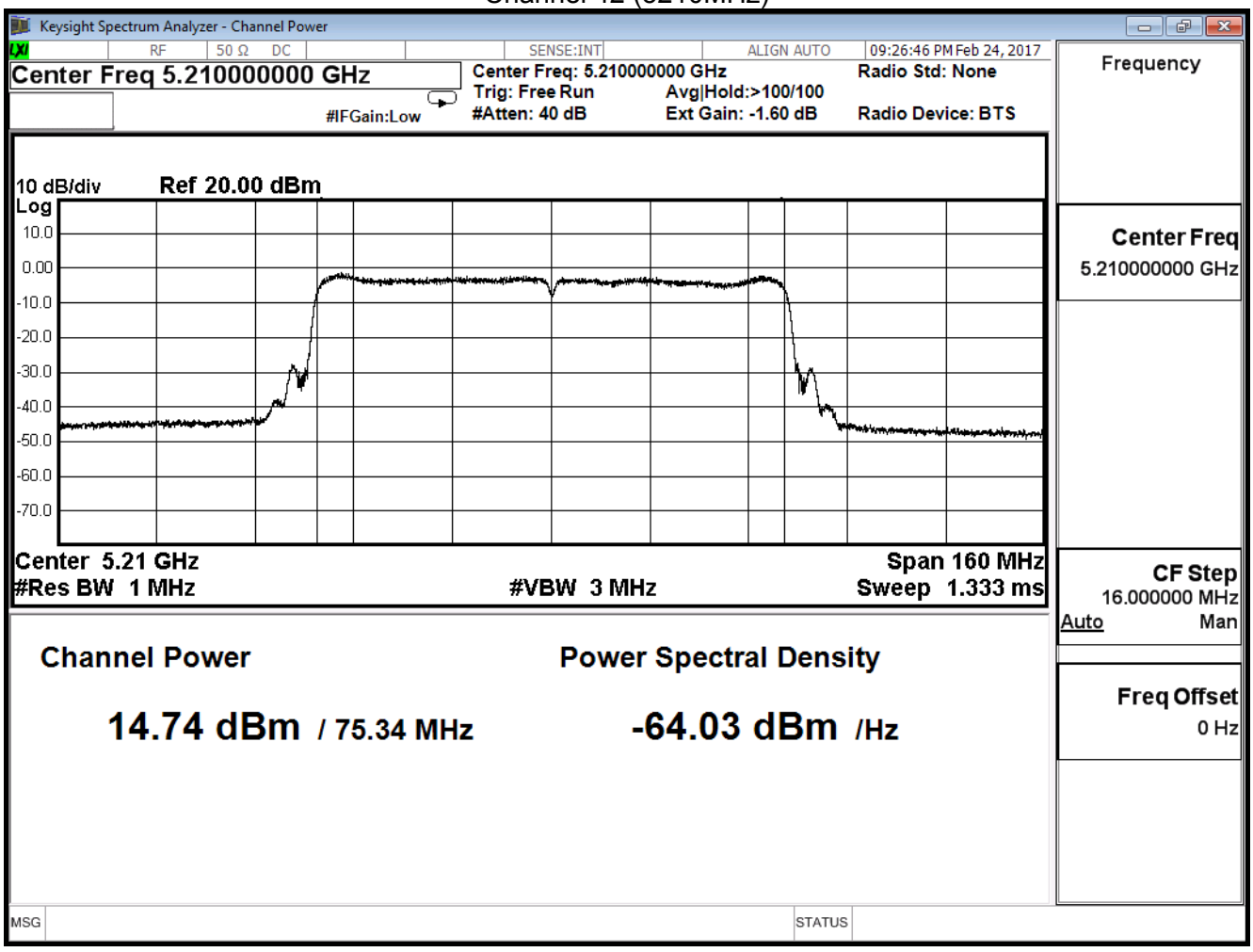
IEEE 802.11ac40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	18.96	≦30
46	5230	24.92	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR7

IEEE 802.11ac 80M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	14.74	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦30
42	5210	14.74	14.54	14.34	14.14	13.94	13.74	13.50	13.26	13.14	12.90	

Channel 42 (5210MHz)

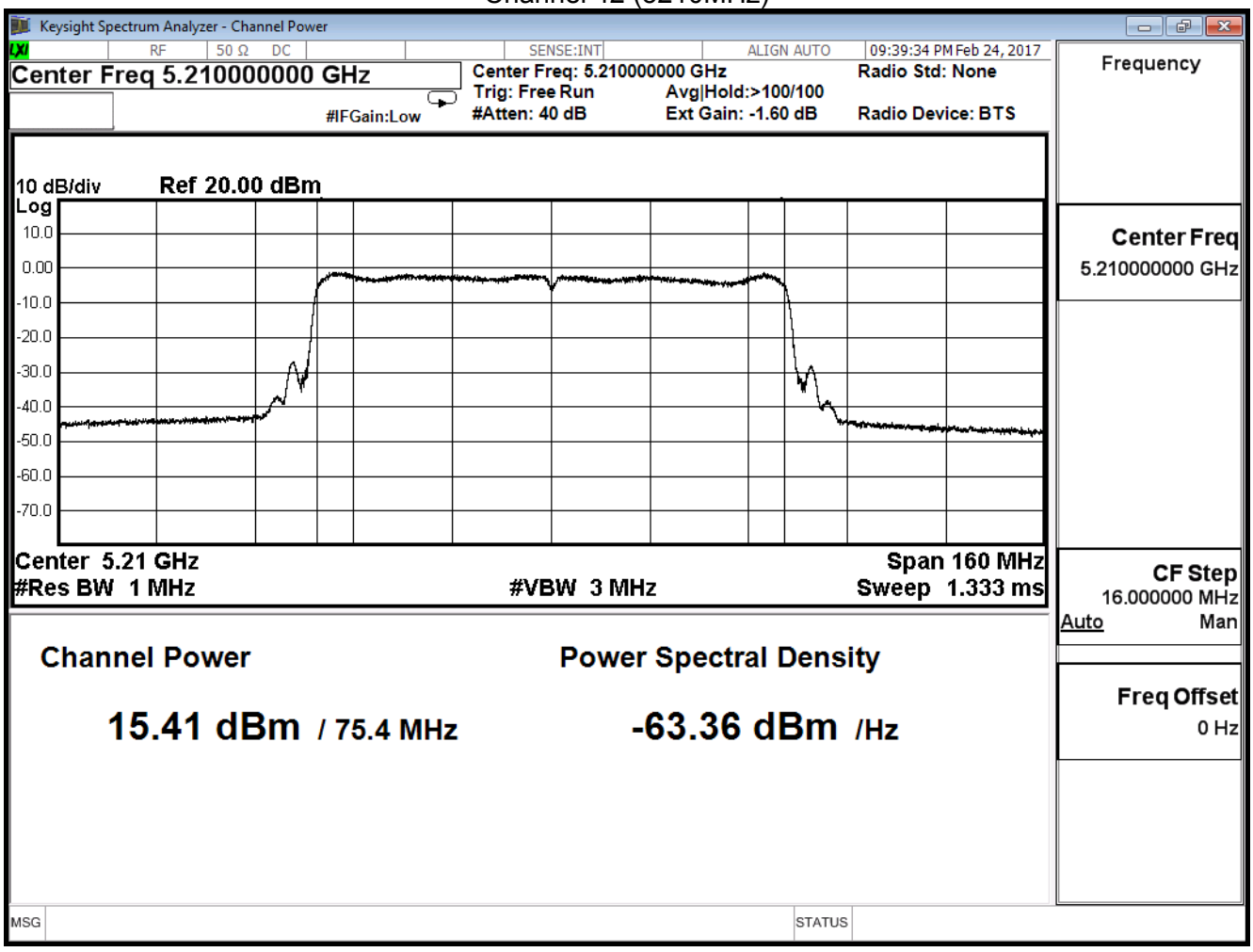


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	15.41	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦30
42	5210	15.41	15.31	15.21	15.01	14.81	14.61	14.49	14.25	14.01	13.77	

Channel 42 (5210MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

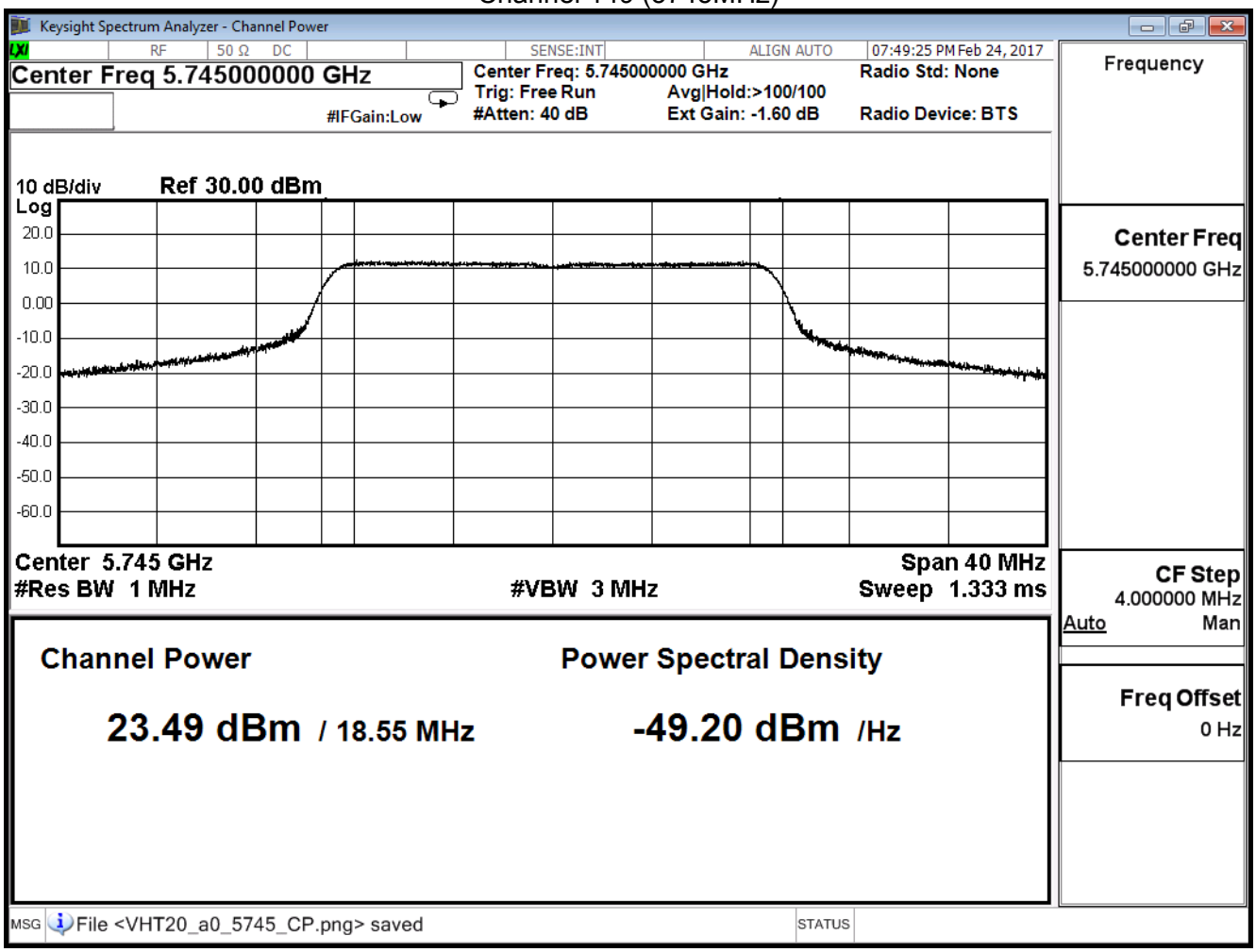
IEEE 802.11ac 80M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	18.10	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/17	Test Site	SR10-H

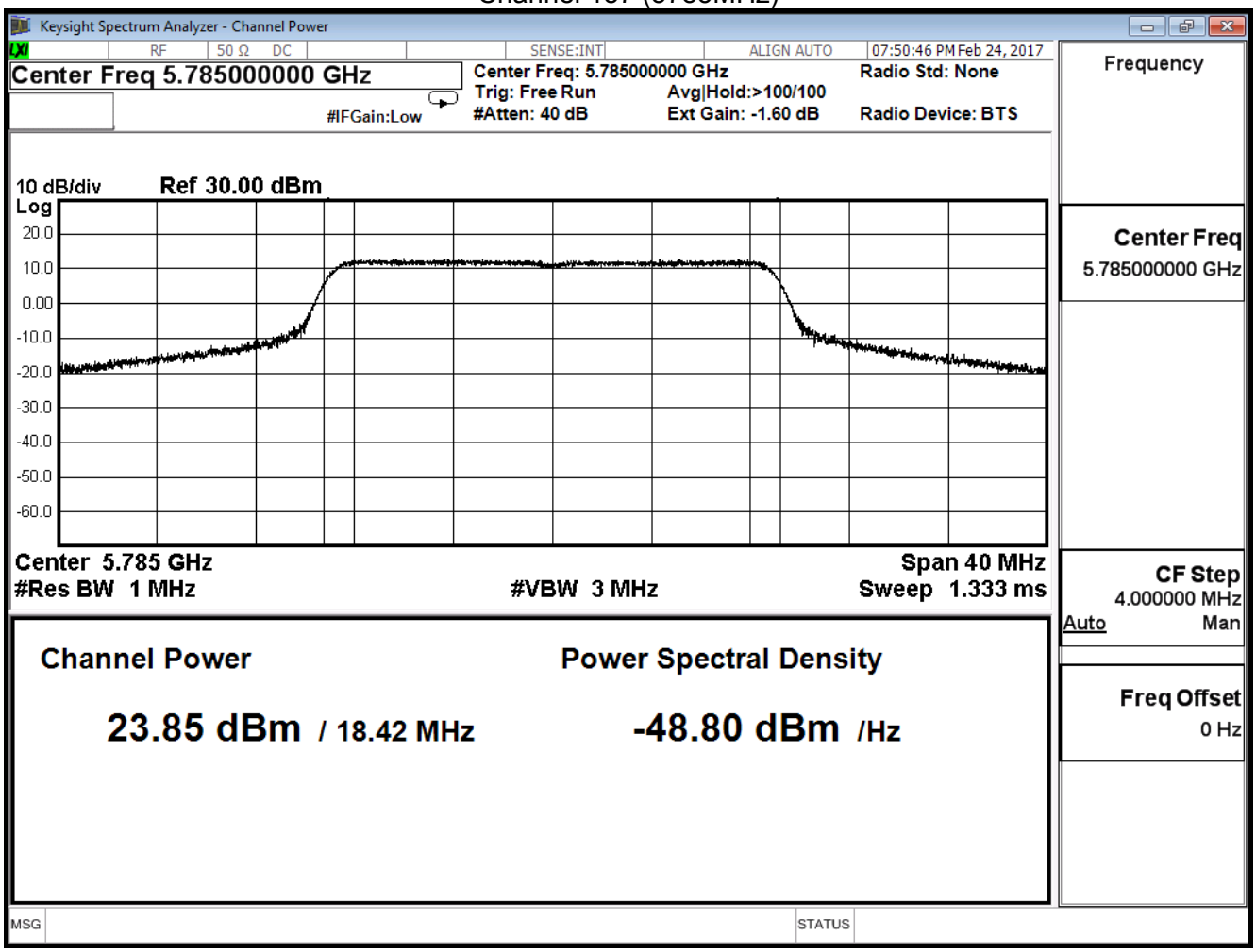
IEEE 802.11ac (20M) (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	23.49	≦30
157	5785	23.85	≦30
165	5825	24.22	≦30

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
149	5745	23.49	--	--	--	--	--	--	--	--	≦30
157	5785	23.85	23.65	23.45	23.35	23.25	23.01	22.77	22.53	22.30	≦30
165	5825	24.22	--	--	--	--	--	--	--	--	≦30

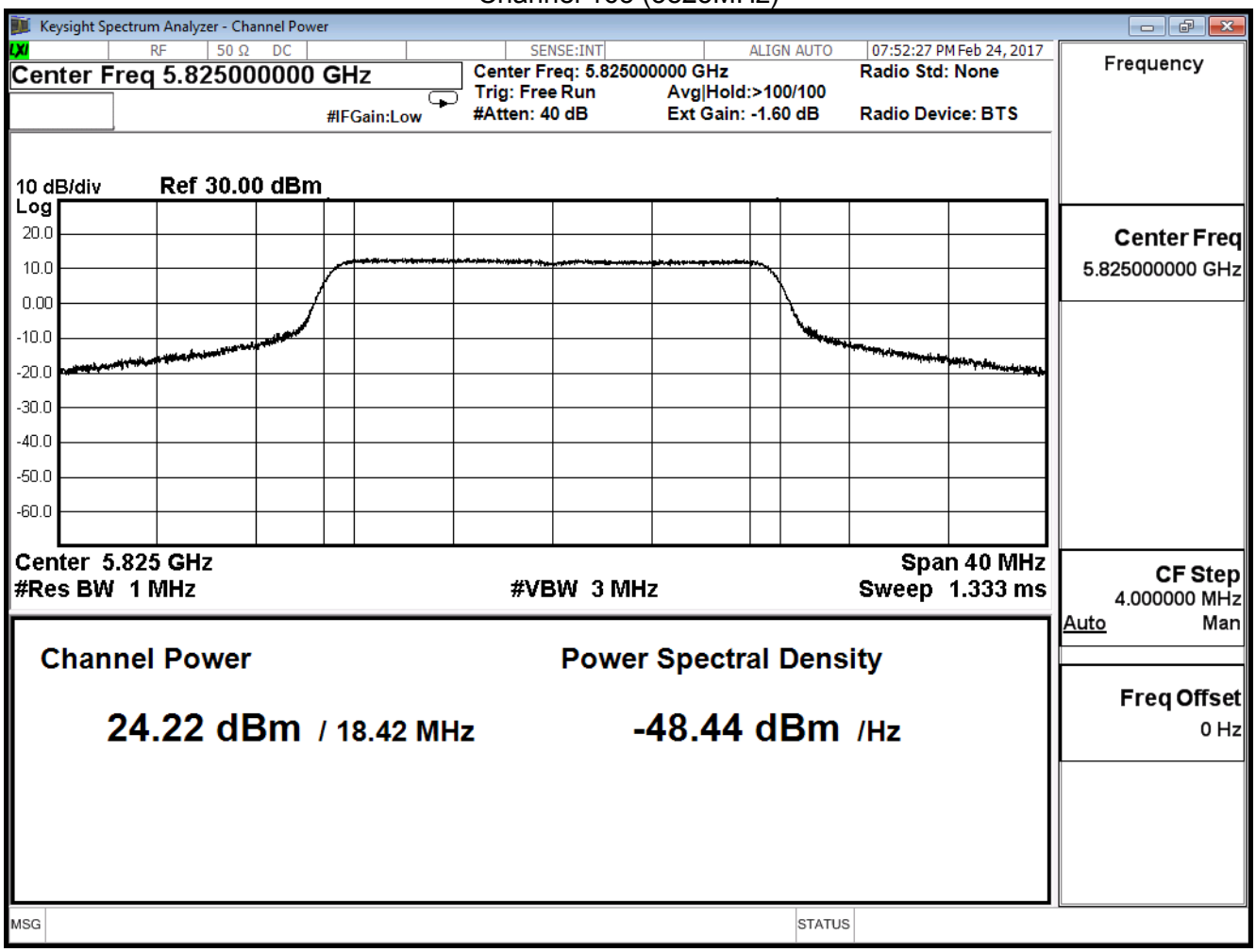
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

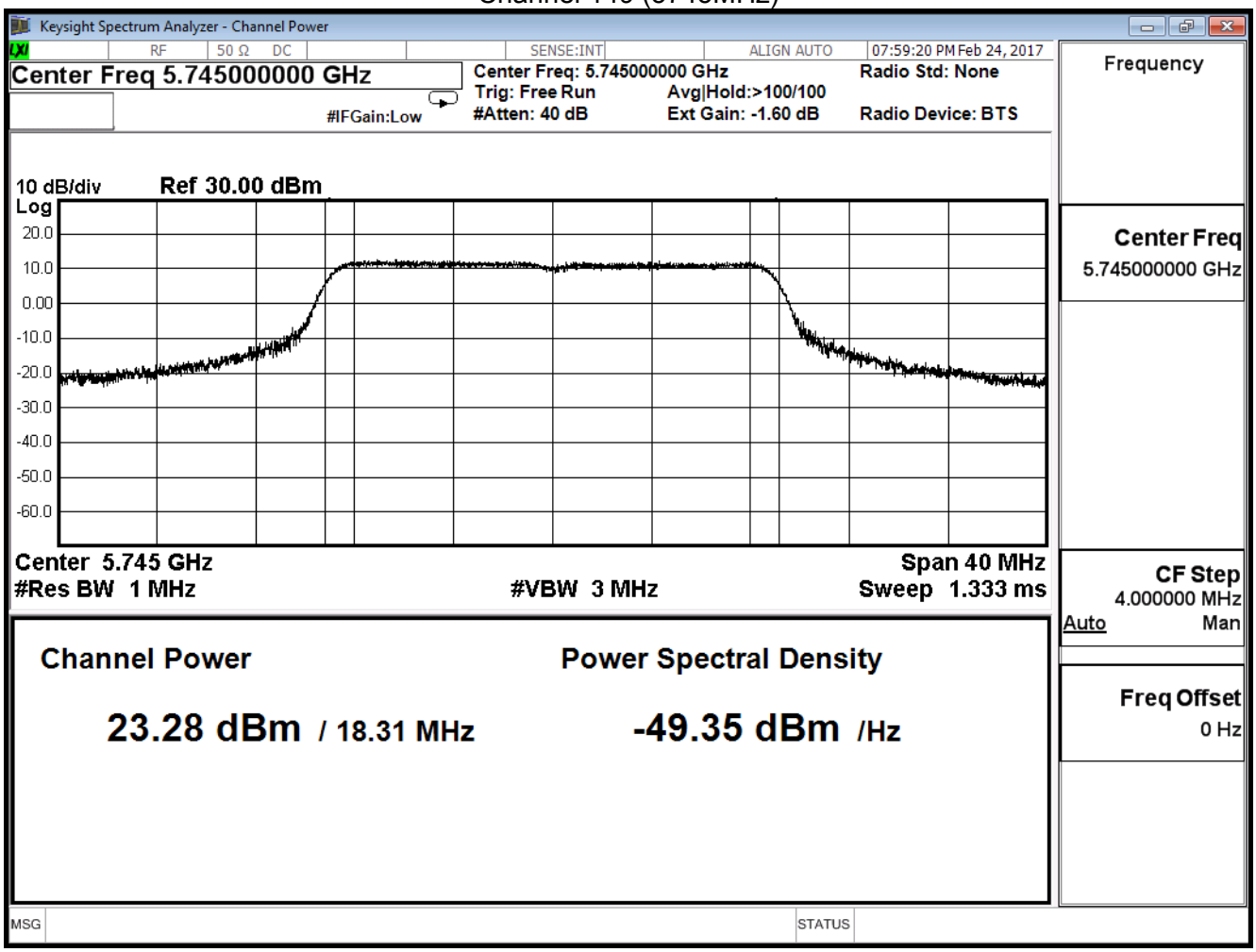


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

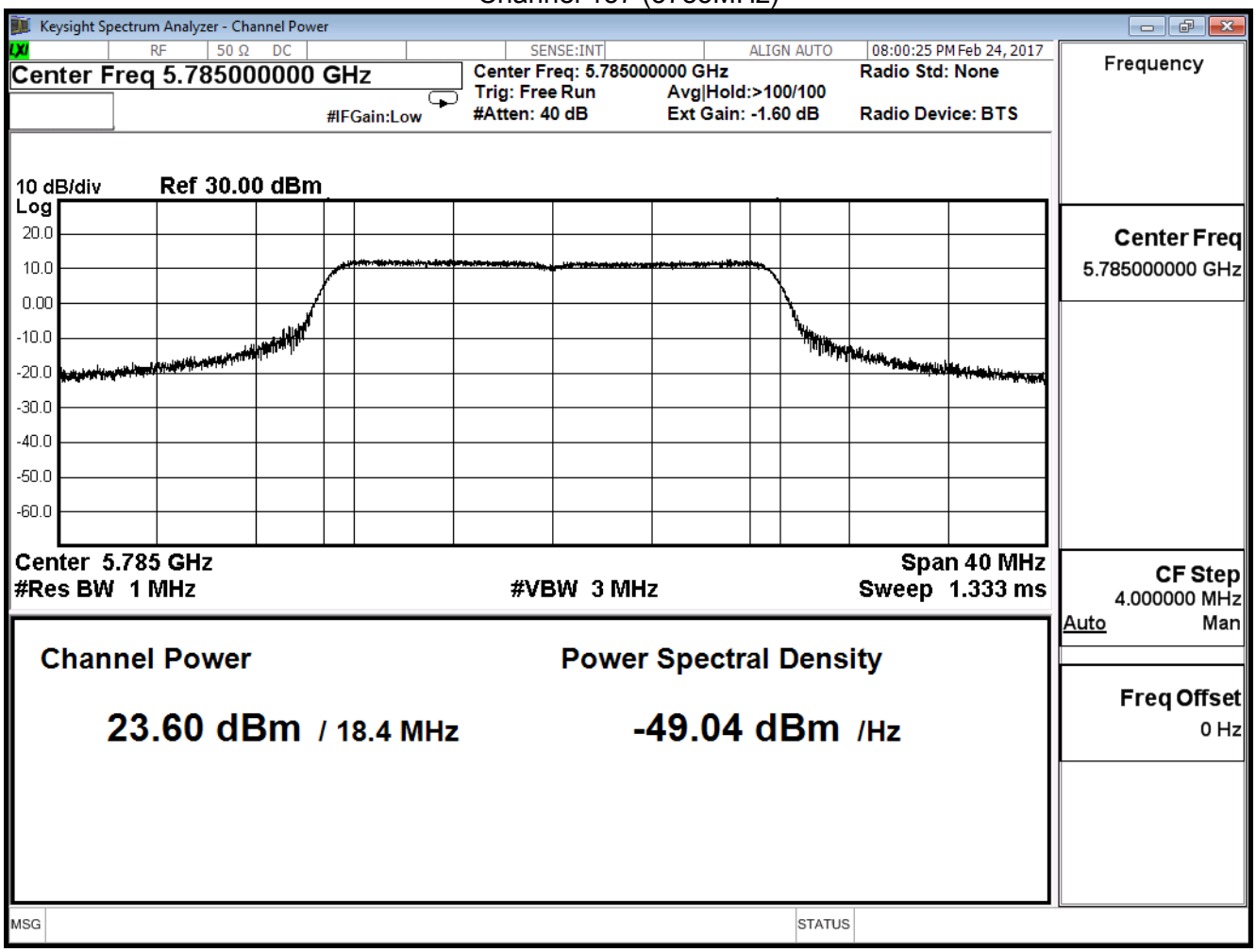
IEEE 802.11AC (20M) (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	23.28	≦30
157	5785	23.60	≦30
165	5825	23.92	≦30

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
149	5745	23.28	--	--	--	--	--	--	--	--	≦30
157	5785	23.60	23.50	23.30	23.20	23.10	22.86	22.62	22.50	22.22	≦30
165	5825	23.92	--	--	--	--	--	--	--	--	≦30

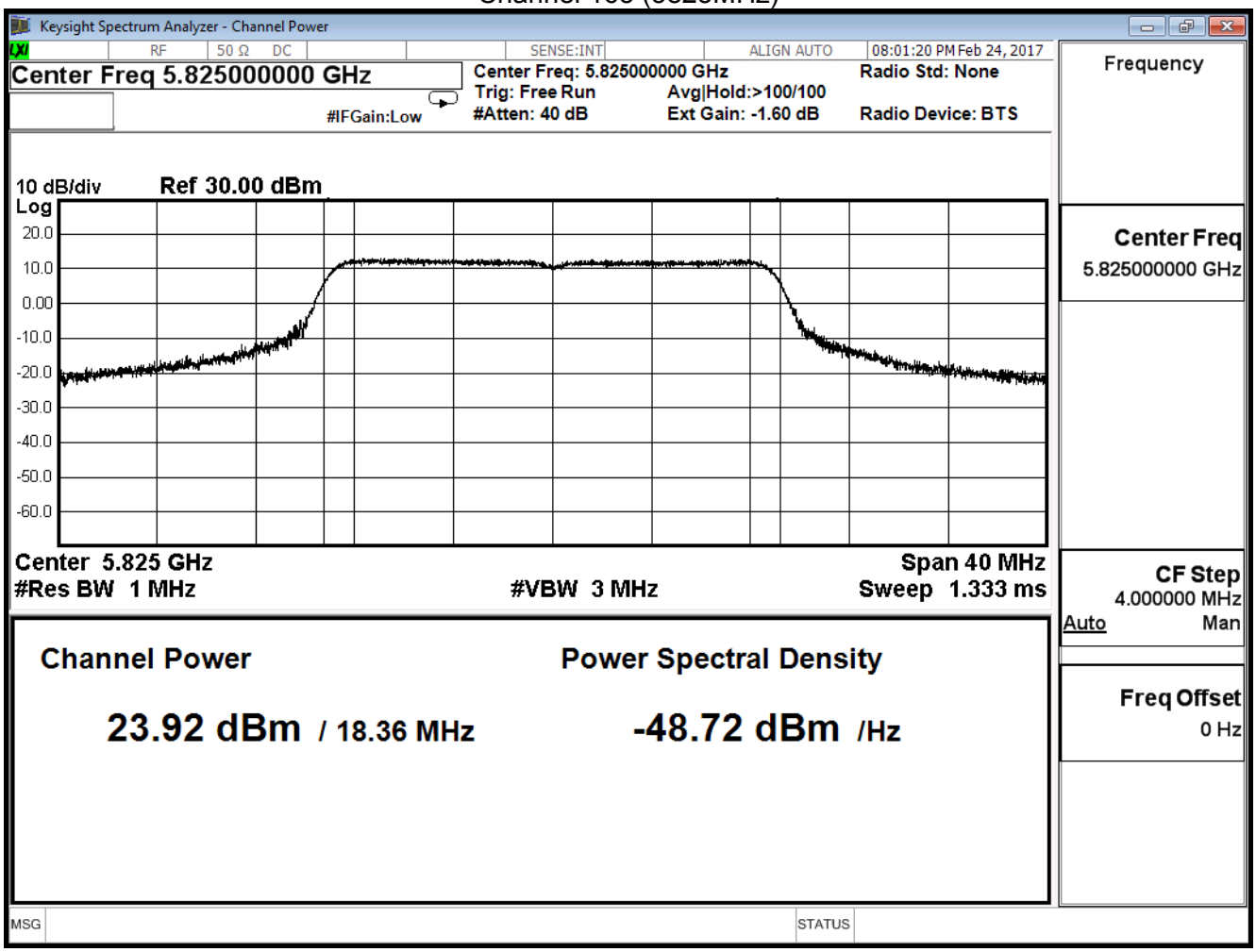
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

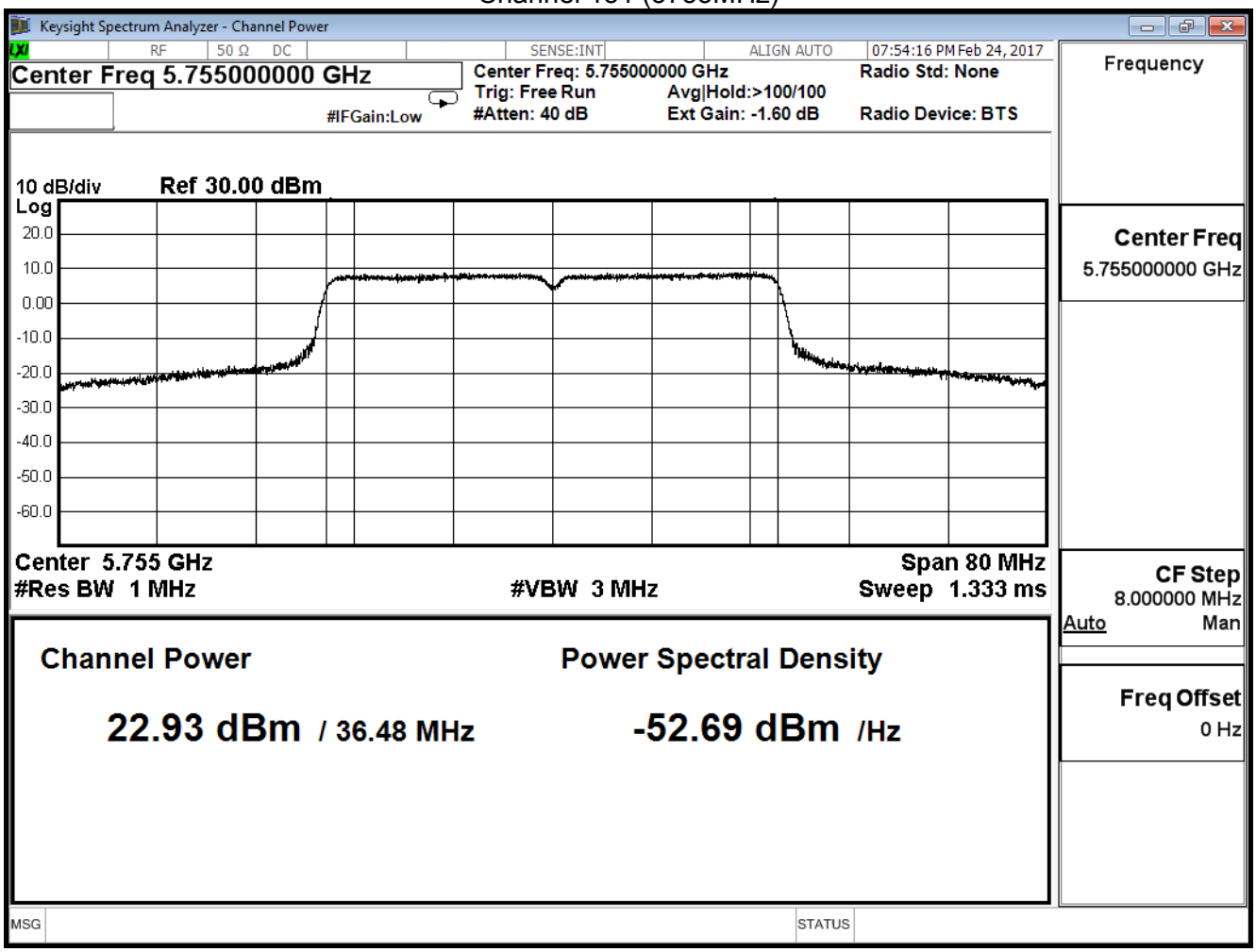
IEEE 802.11ac (20M) (ANT0+ 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	26.40	≦30
157	5785	26.74	≦30
165	5825	27.08	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

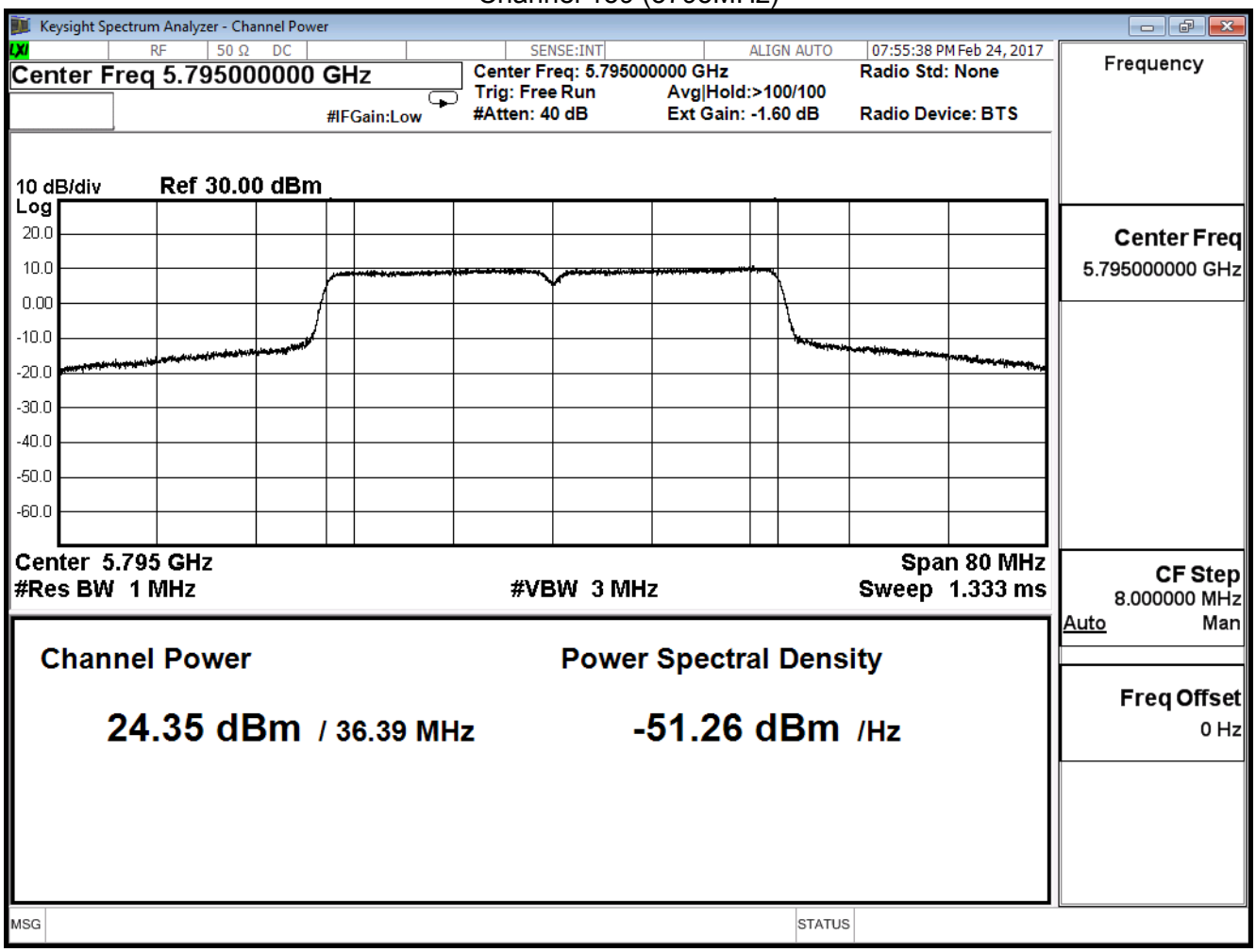
IEEE 802.11ac 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	22.93	≦30
159	5795	24.35	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
151	5755	22.93	--	--	--	--	--	--	--	--	--	≦30
159	5795	24.35	24.15	23.95	23.75	23.55	23.43	23.31	23.19	22.92	22.05	≦30

Channel 151 (5755MHz)



Channel 159 (5795MHz)

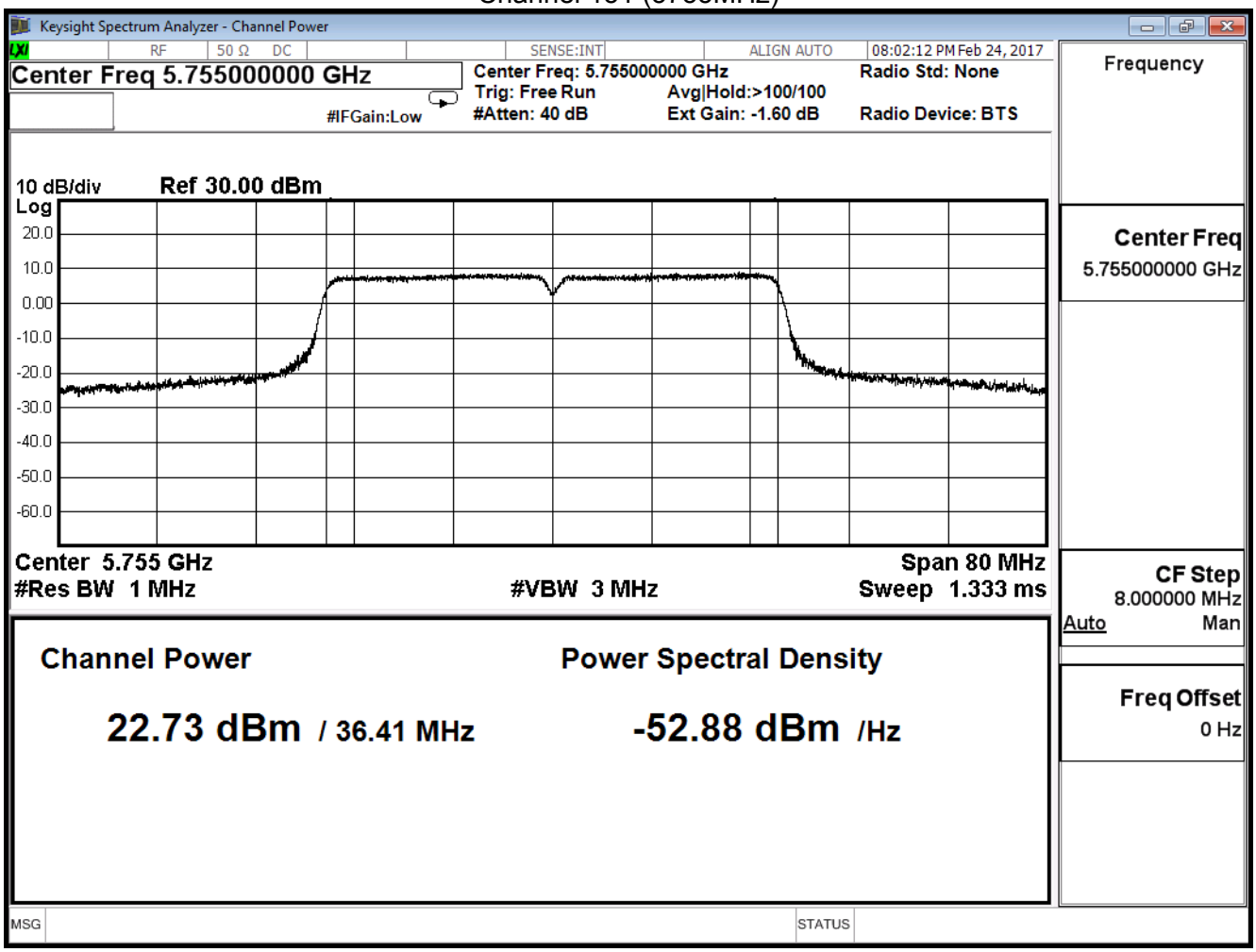


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

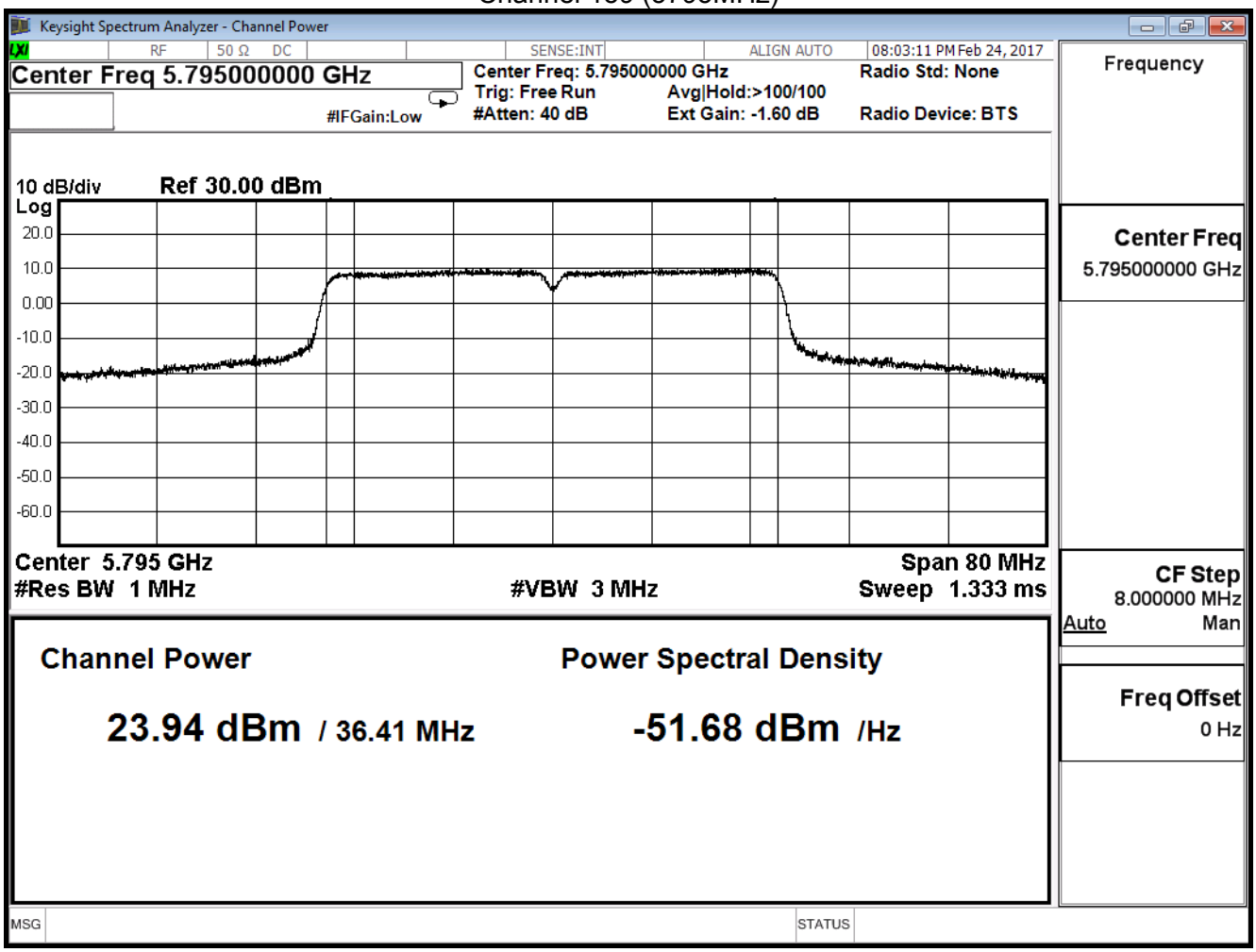
IEEE 802.11ac 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	22.73	≦30
159	5795	23.94	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
151	5755	22.73	--	--	--	--	--	--	--	--	--	≦30
159	5795	23.94	23.74	23.64	23.54	23.34	23.10	22.86	22.62	22.05	21.81	≦30

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

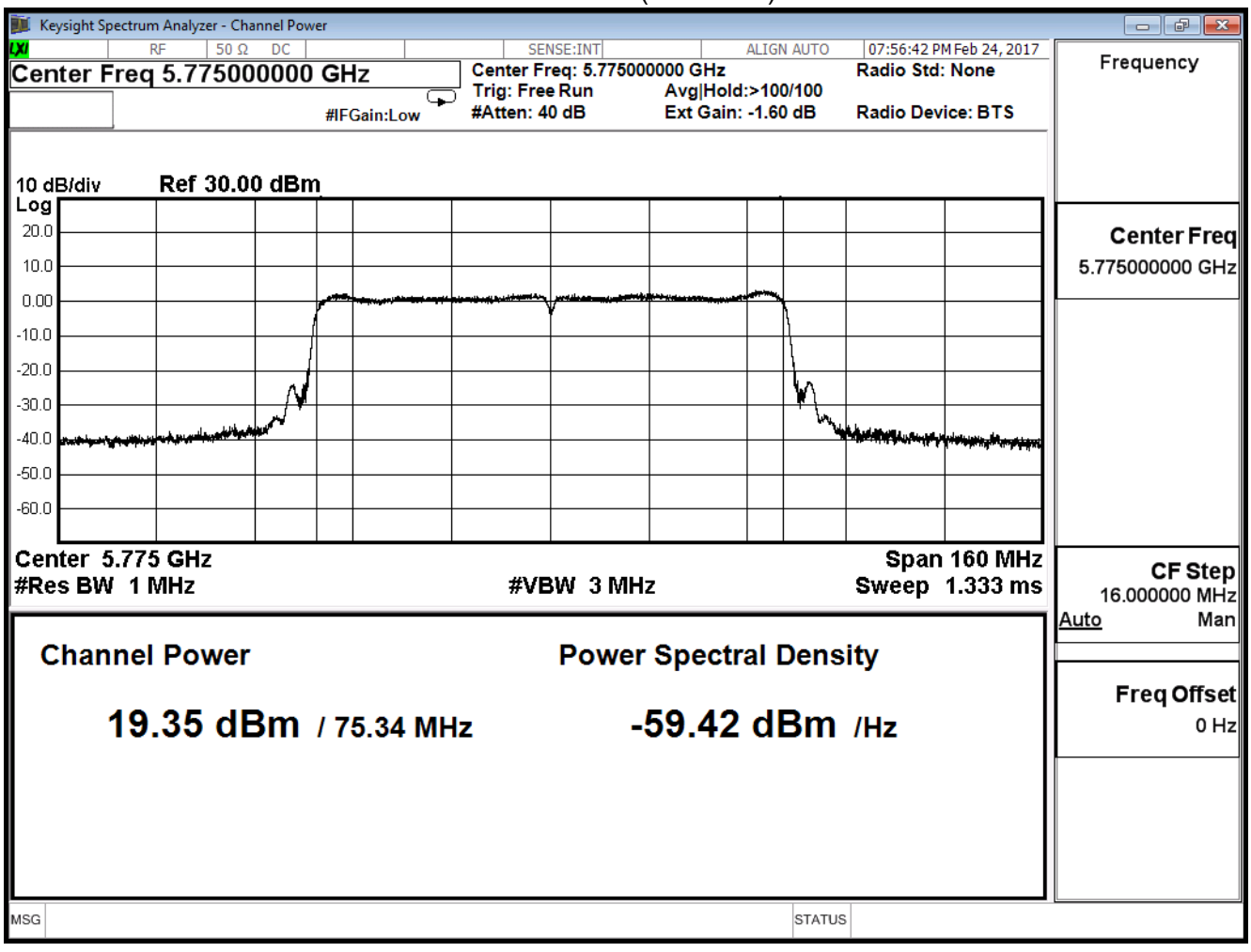
IEEE 802.11ac40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	25.84	≦30
159	5795	27.16	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	19.35	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦30
155	5775	19.35	19.15	18.95	18.75	18.55	18.35	18.11	17.99	17.75	17.63	

Channel 155 (5775MHz)

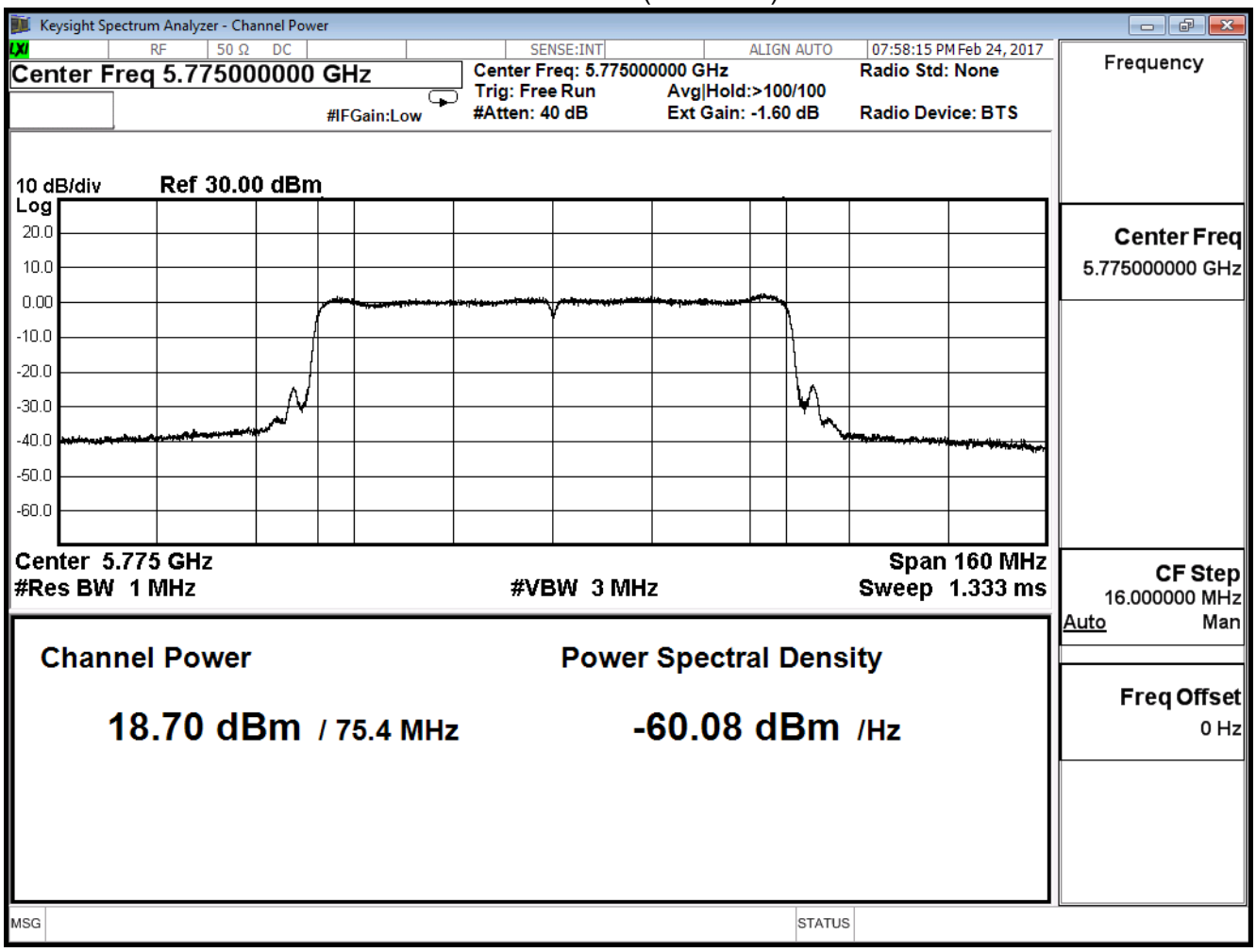


Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	18.70	≦30

Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											≦30
155	5775	18.70	18.50	18.40	18.30	18.10	17.90	17.66	17.42	17.30	17.06	

Channel 155 (5775MHz)



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 2: Tx-Dipole ANT		
Date of Test	2017/02/24	Test Site	SR10-H

IEEE 802.11ac 80M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	22.05	≦30

Product	Mimosa C5c		
Test Item	Peak Transmit power		
Date of Test	2017/5/10	Test Site	SR10-H

Dish antenna

Channel No.	Frequency (MHz)	Measure Level (dBuV/m)	Measure Level (EIRP, dBm)	Limit (EIRP, dBm)
42	5210	83.624	-11.576	≦21

Dipole antenna

Channel No.	Frequency (MHz)	Measure Level (dBuV/m)	Measure Level (EIRP, dBm)	Limit (EIRP, dBm)
46	5230	104.32	9.12	≦21