

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 : Apr. 20, 2017
Report No. : 1710110R-RFUSP58V00
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: Apr. 20, 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 :



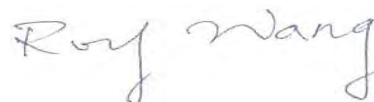
(Demi Chang / Senior Engineering Adm. Specialist)

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	Apr. 20, 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	<i>mimosa</i>	
Model No.	C5c	
Frequency Range/ Channel Number	IEEE 802.11ac (20MHz)	5180-5240MHz / 4 Channels 5260-5320MHz / 4 Channels 5500-5700MHz / 11 Channels 5745-5825MHz / 5 Channels
	IEEE 802.11ac (40MHz)	5190-5230MHz / 2 Channels 5270-5310MHz / 2 Channels 5510-5670MHz / 5 Channels 5755-5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210-5210MHz / 1 Channel 5290MHz / 1 Channel 5530-5690MHz / 3 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		
	20MHz	40MHz	80MHz
Mode/ Channel Bandwidth			
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		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

802.11ac20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36	5180 MHz	Channel 40	5200 MHz	Channel 44	5220 MHz	Channel 48	5240 MHz
Channel 52	5260 MHz	Channel 56	5280 MHz	Channel 60	5300 MHz	Channel 64	5320 MHz
Channel 100	5500 MHz	Channel 104	5520 MHz	Channel 108	5540 MHz	Channel 112	5560 MHz
Channel 116	5580 MHz	Channel 120	5600 MHz	Channel 124	5620 MHz	Channel 128	5640 MHz
Channel 132	5660 MHz	Channel 136	5680 MHz	Channel 140	5700 MHz	Channel 149	5745 MHz
Channel 153	5765 MHz	Channel 157	5785 MHz	Channel 161	5805 MHz	Channel 165	5825 MHz

802.11ac40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38	5190 MHz	Channel 46	5230 MHz	Channel 54	5270 MHz	Channel 62	5310 MHz
Channel 102	5510 MHz	Channel 110	5550 MHz	Channel 118	5590 MHz	Channel 126	5630 MHz
Channel 134	5670 MHz	Channel 151	5755 MHz	Channel 159	5795 MHz		

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

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

UNII-I-1

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

Dipole 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

U-NII-3

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

Dipole 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

U-NII-2A

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5260	24	24
	5300	24	24
	5320	22	22
802.11ac(40MHz)	5270	23	23
	5310	18	18
802.11ac(80MHz)	5290	18	18

Dipole Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5260	-1	-1
	5300	-1	-1
	5320	-3	-3
802.11ac(40MHz)	5270	0	0
	5310	-3	-3
802.11ac(80MHz)	5290	-2	-2

U-NII-2C

Dish Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5500	19	19
	5580	23	23
	5700	18	18
802.11ac(40MHz)	5510	17	17
	5550	22	22
	5670	18	18
802.11ac(80MHz)	5530	18	18

Dipole Antenna:

Modulation	Channel	Power index	
		Ant0	Ant1
802.11ac(20MHz)	5500	-2	-2
	5580	1	1
	5700	-2	-2
802.11ac(40MHz)	5510	-1	-1
	5550	2	2
	5670	-1	-1
802.11ac(80MHz)	5530	0	0

1.2. Test Mode

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

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

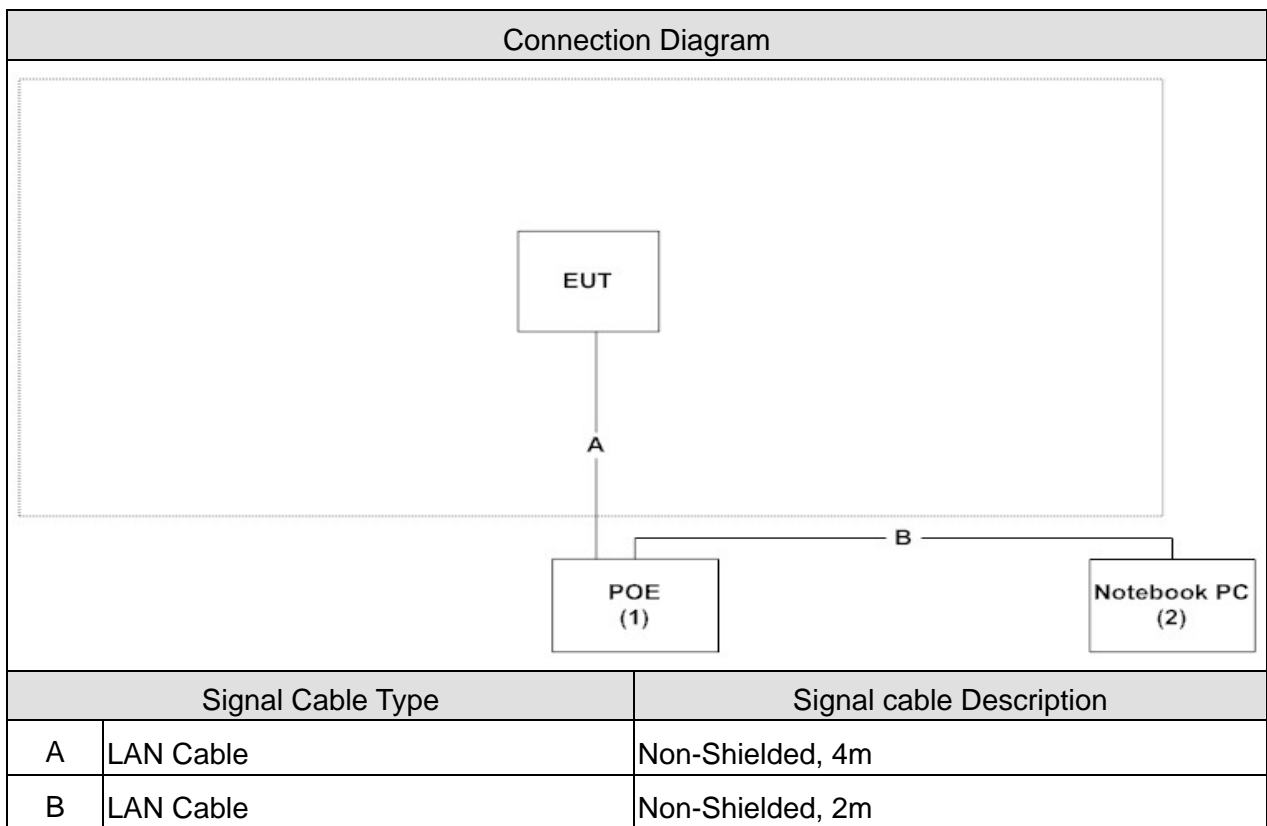
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42/58/106	0+1	Complies
99% & DTS Bandwidth	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0/1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0/1	Complies
	11ac (80MHz)	42/58/106	0/1	Complies
Peak Transmit Output	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0+1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0+1	Complies
	11ac (80MHz)	42/58/106	0+1	Complies
Peak Power Spectrum Density	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0+1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0+1	Complies
	11ac (80MHz)	42/58/106	0+1	Complies
Radiated Emission	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0+1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0+1	Complies
	11ac (80MHz)	42/58/106	0+1	Complies
Band Edge	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0+1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0+1	Complies
	11ac (80MHz)	42/58/106	0+1	Complies
Frequency Stability	11ac (20MHz)	36/44/48/52/60/64 100/116/140	0/1	Complies
	11ac (40MHz)	38/46/54/62 102/110/134	0/1	Complies
	11ac (80MHz)	42/58/106	0/1	Complies

1.3. 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	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	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.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20°C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99% & 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	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

2. Conducted Emission

2.1. Test Equipment

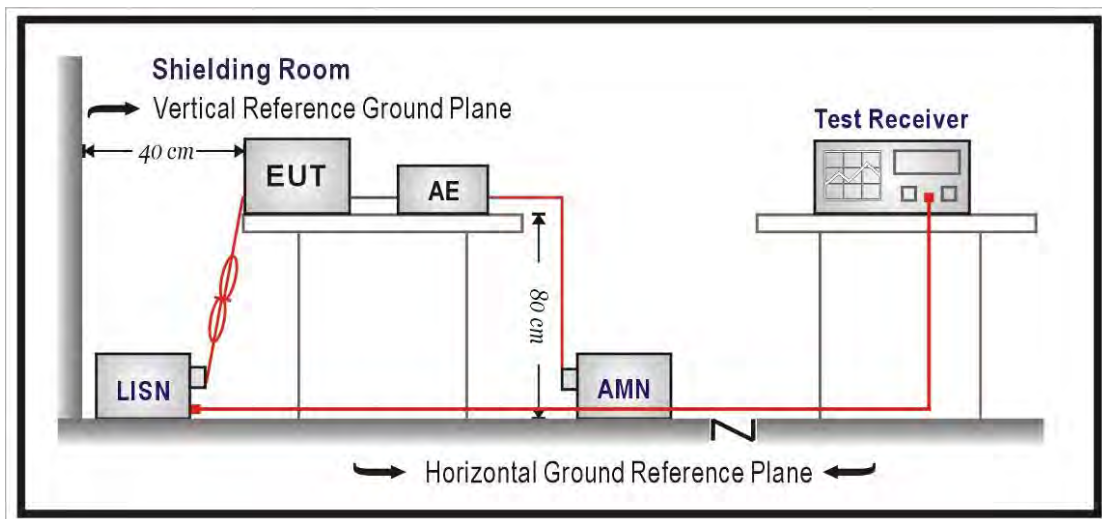
The following test equipments are used during the test:

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

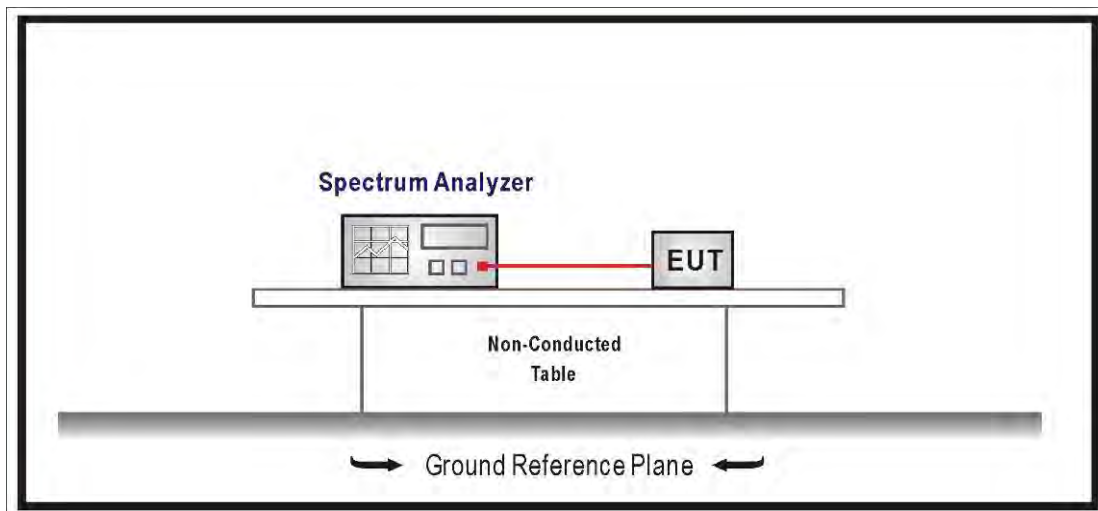
The following test equipments are used during the radiated emission tests:

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 \geq 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 \geq 3xRBW, Sweep time=Auto, Set Peak detector.

3.5. Uncertainty

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

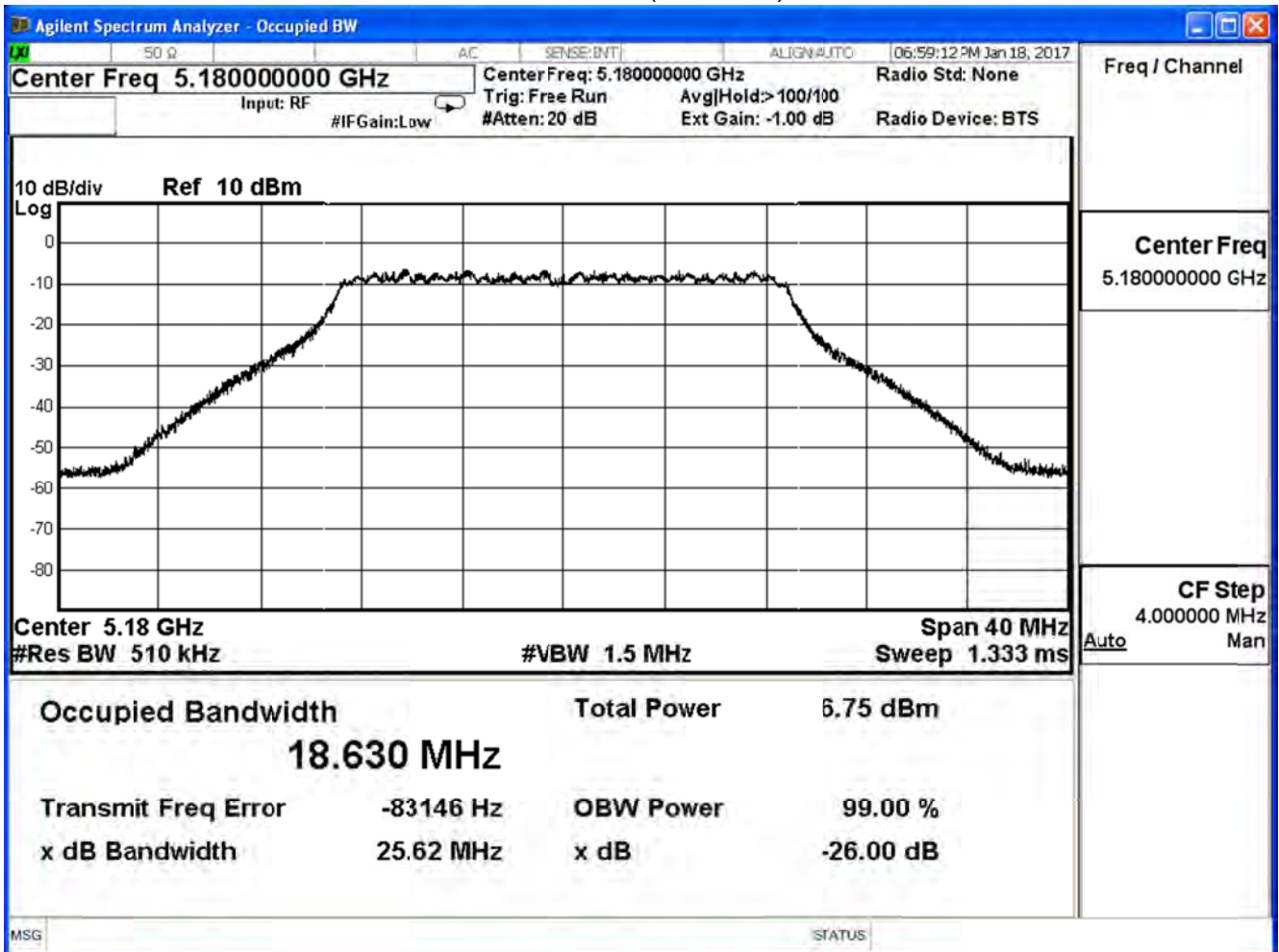
3.6. Test Result

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

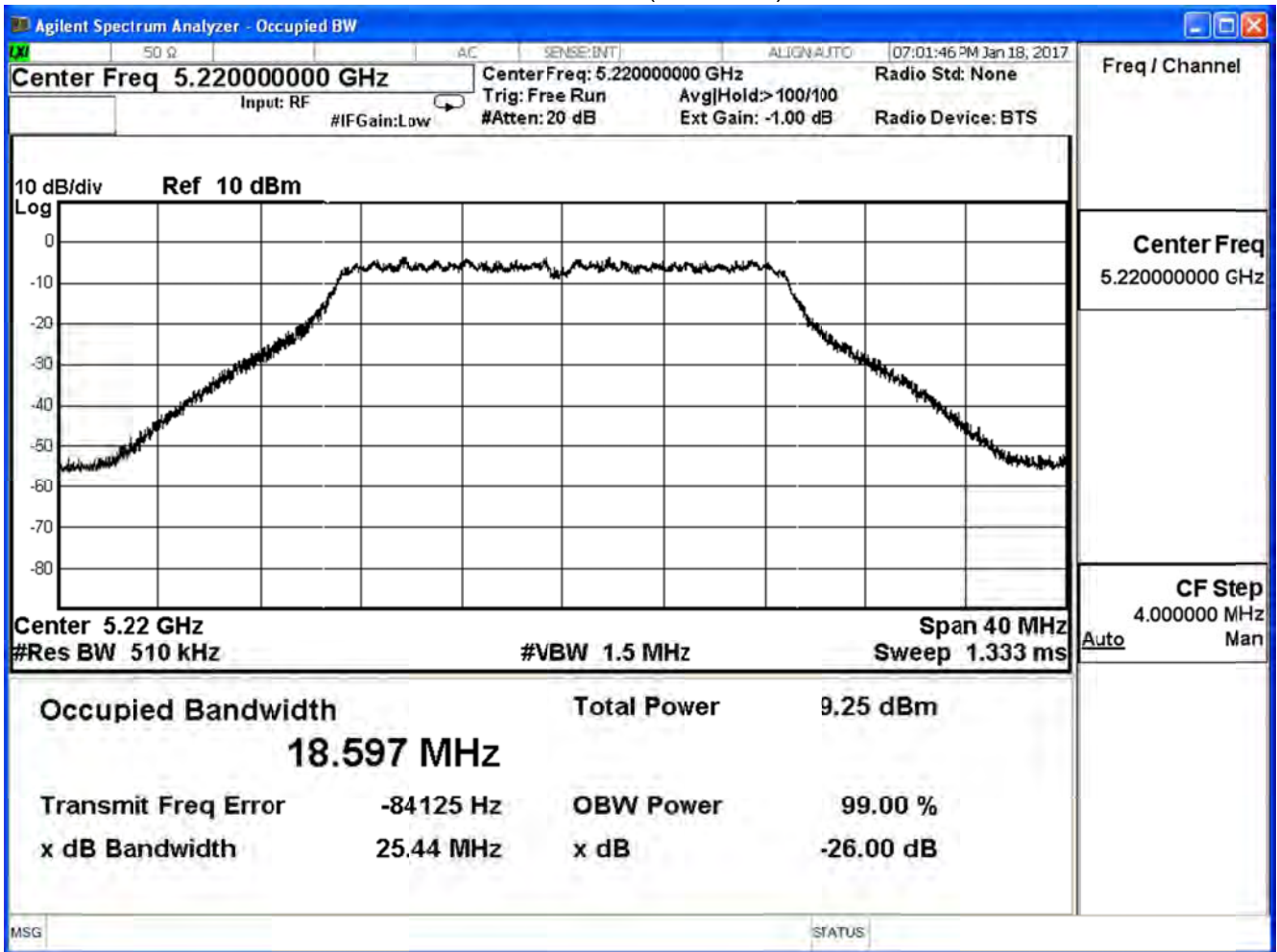
IEEE 802.11ac20 (ANT 0)

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	--

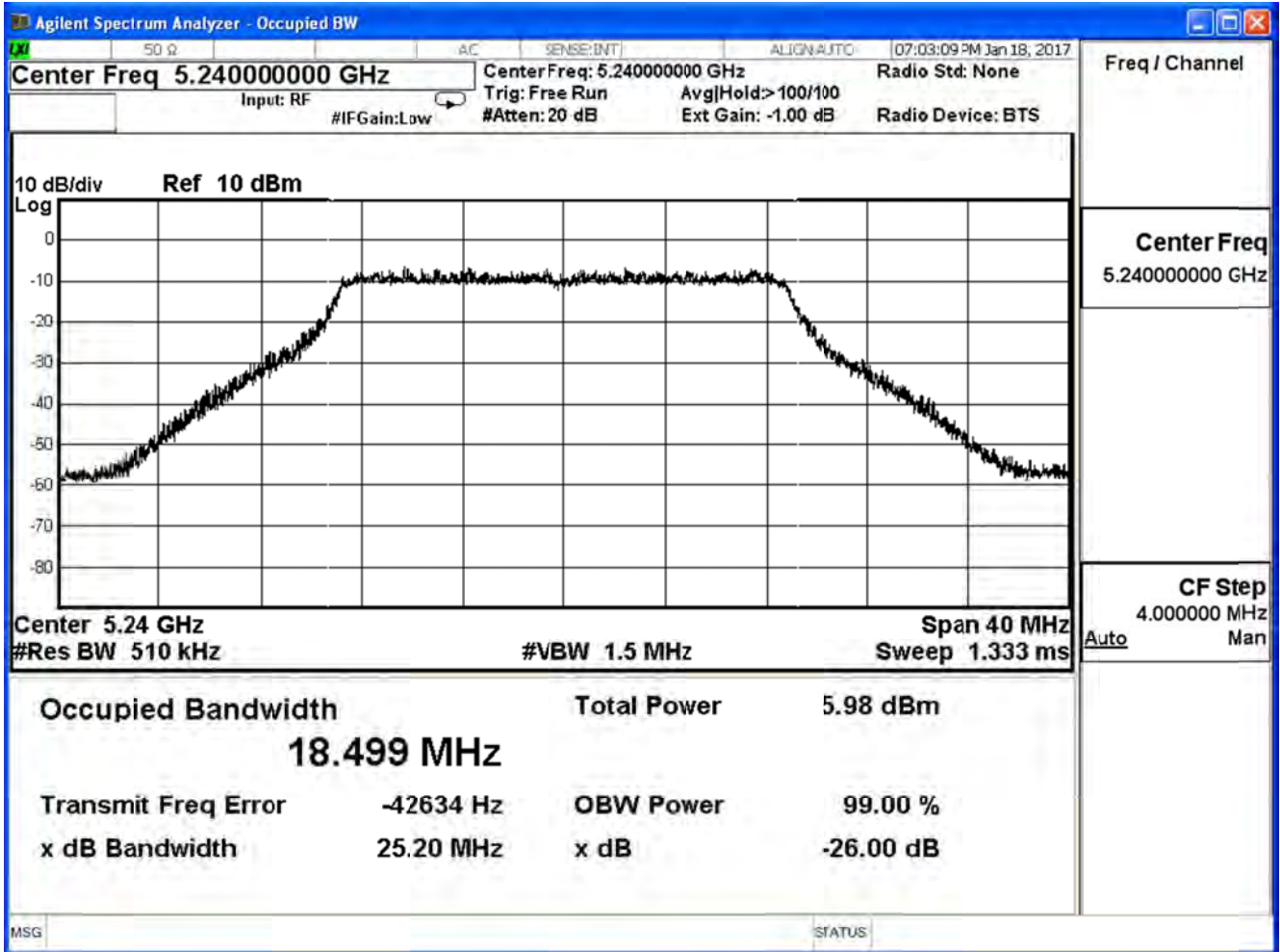
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

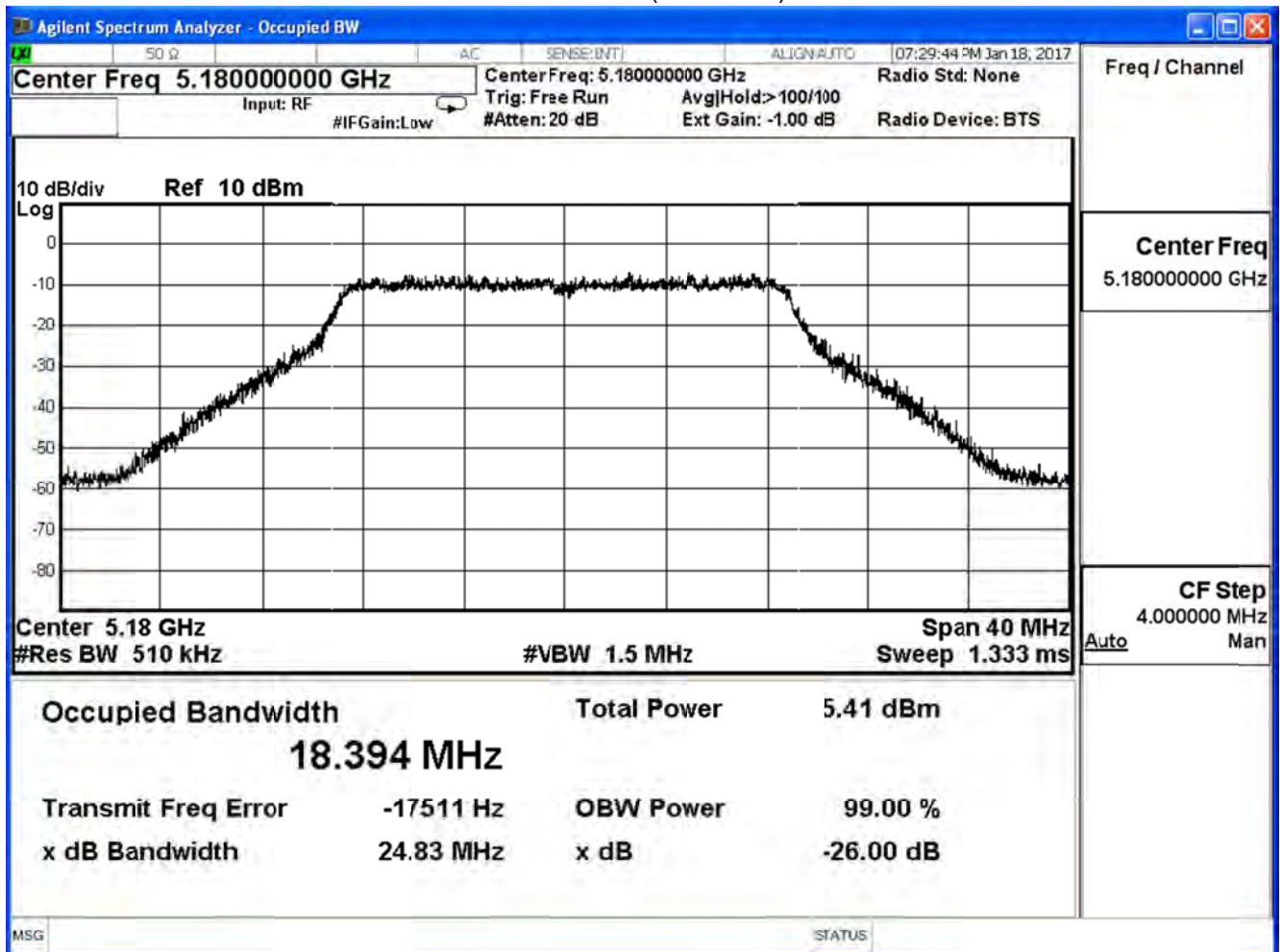


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

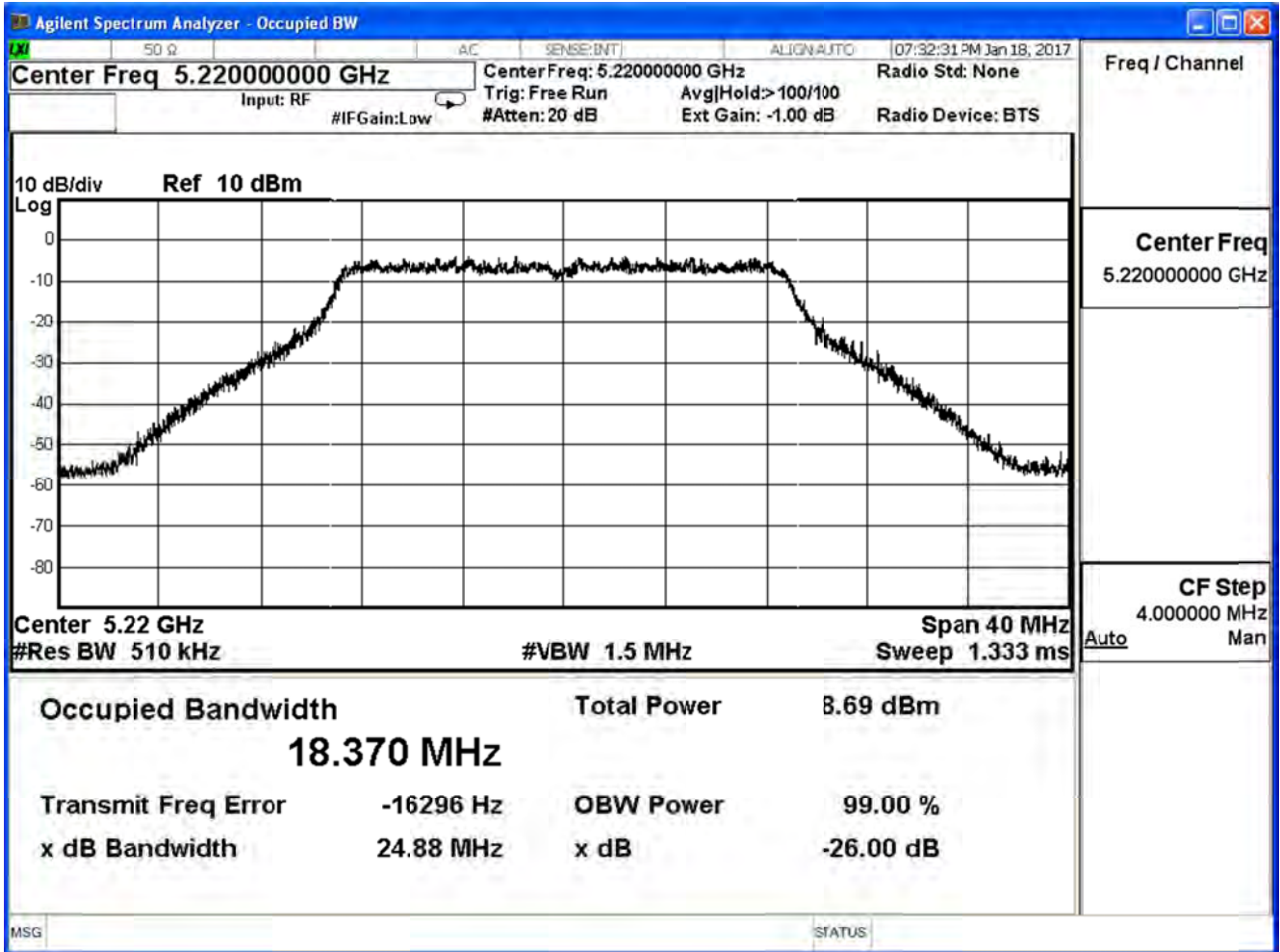
IEEE 802.11ac20 (ANT 1)

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	--

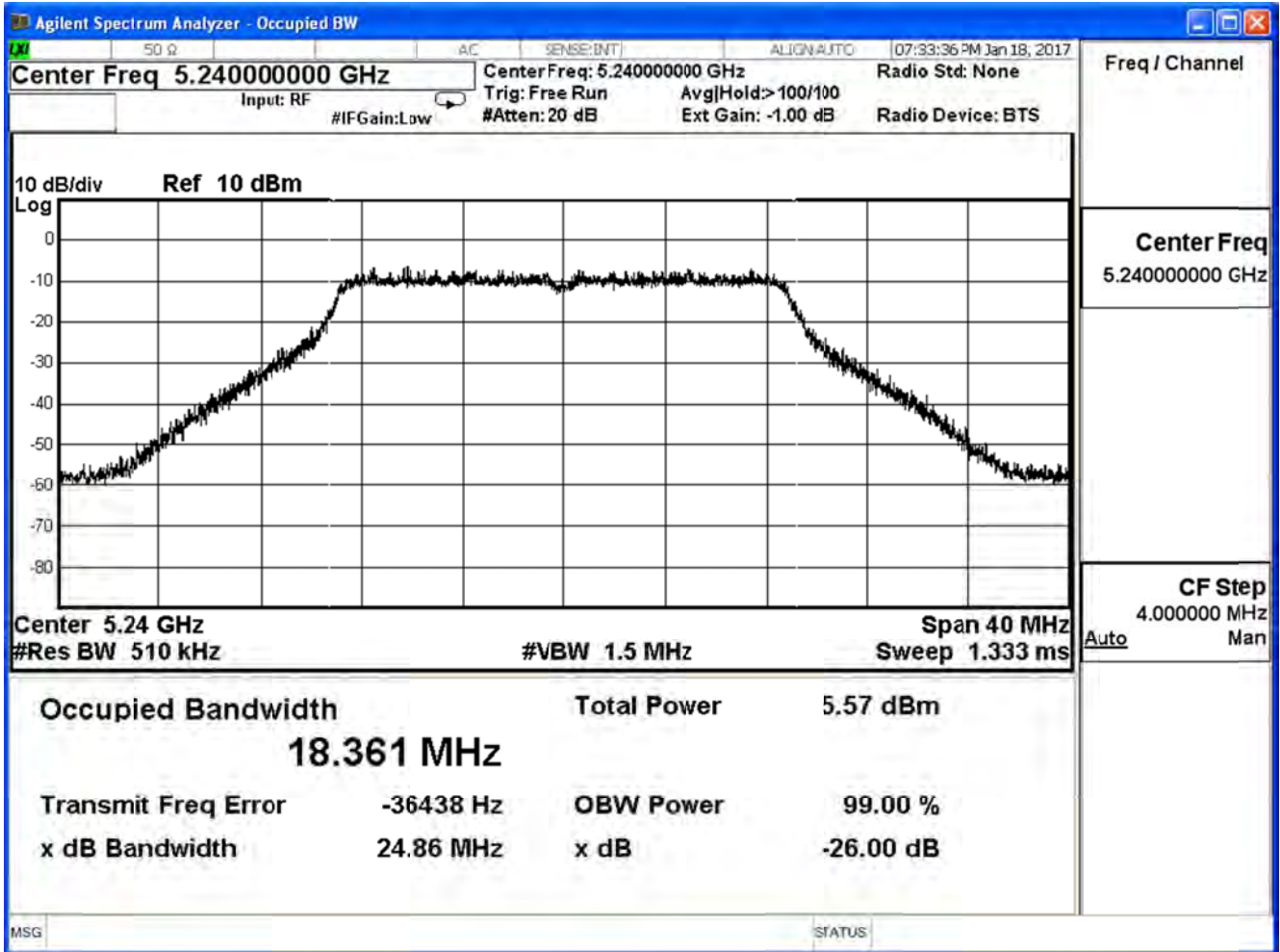
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

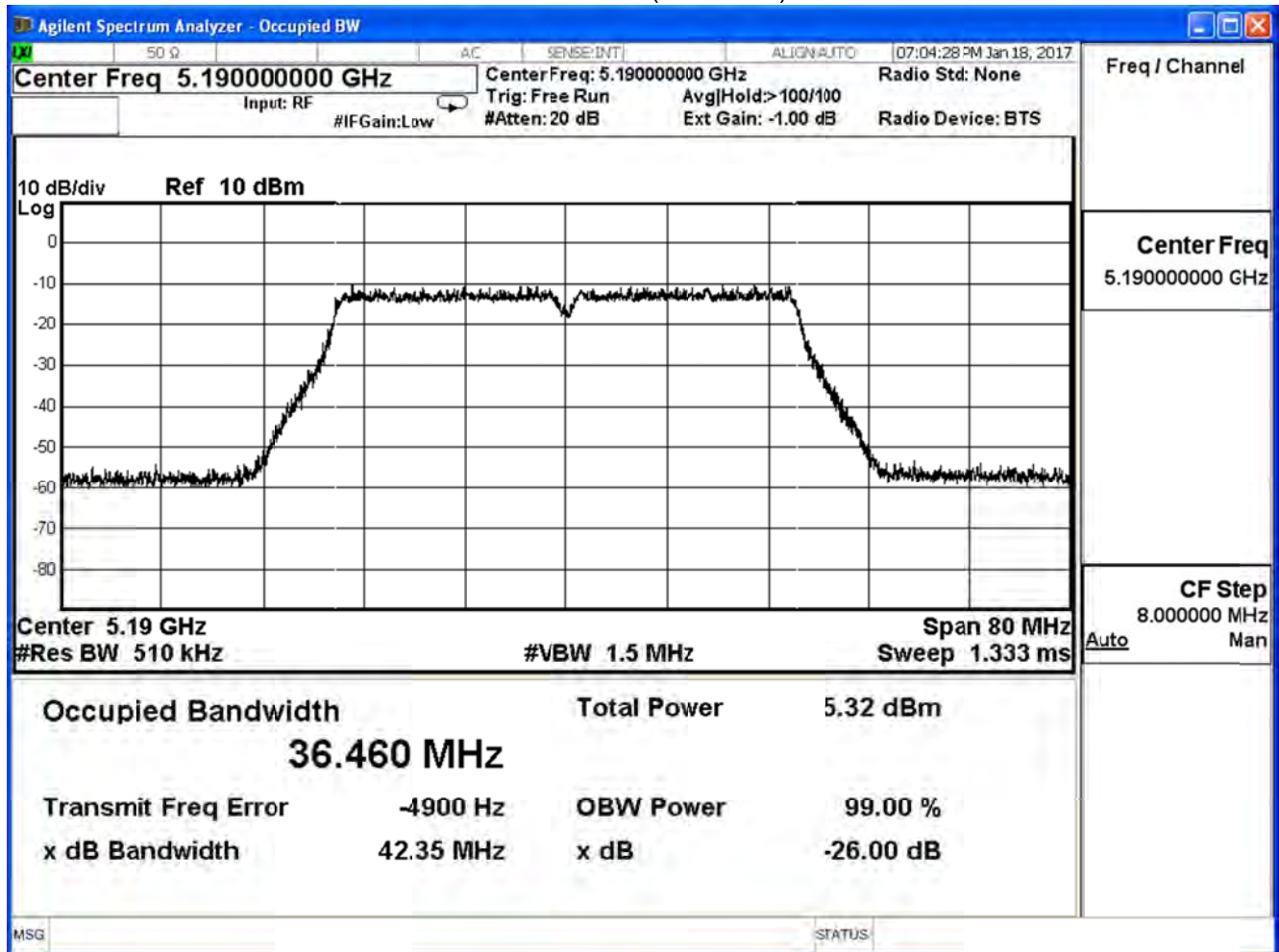


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

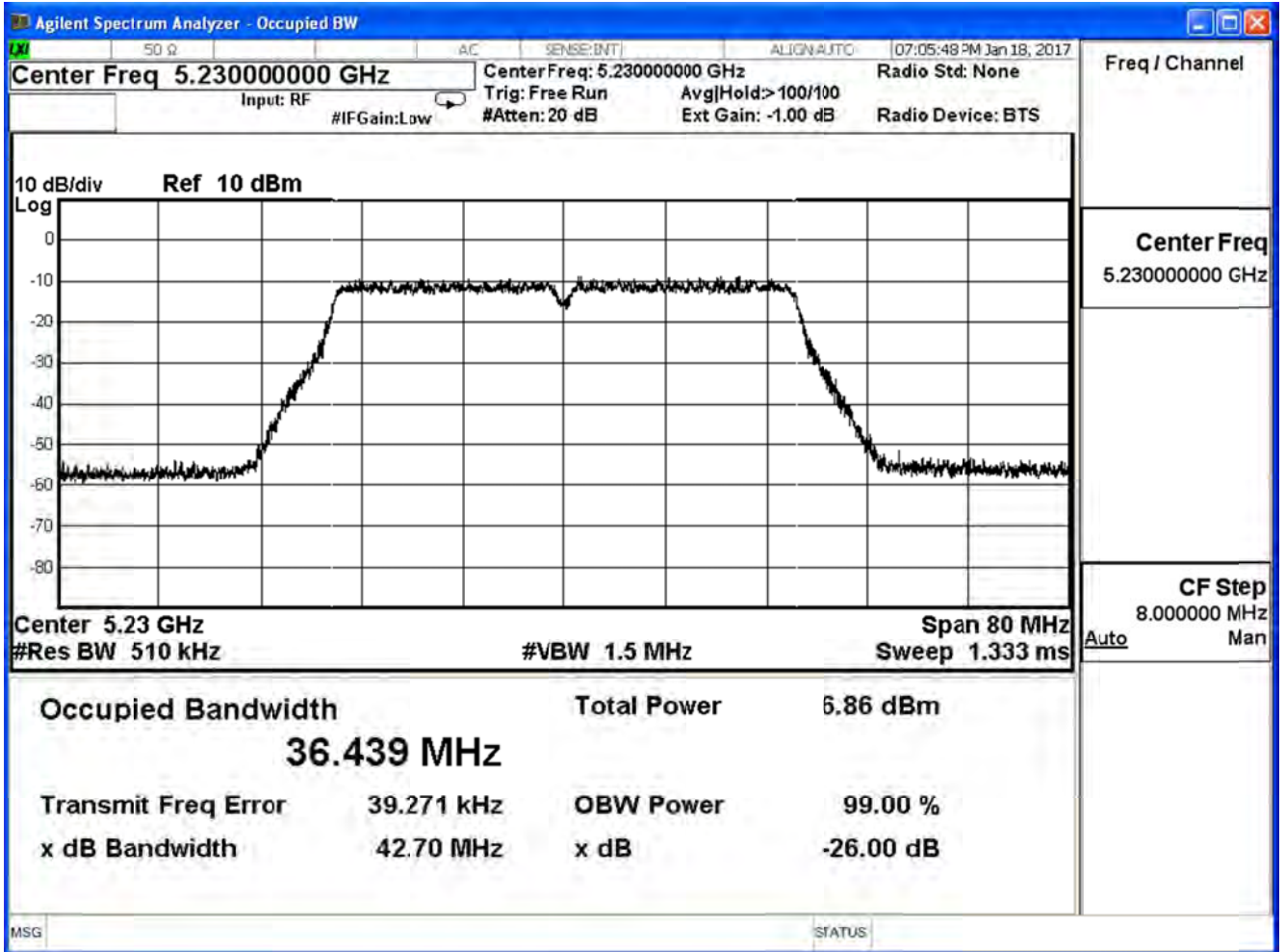
IEEE 802.11ac40 (ANT 0)

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)

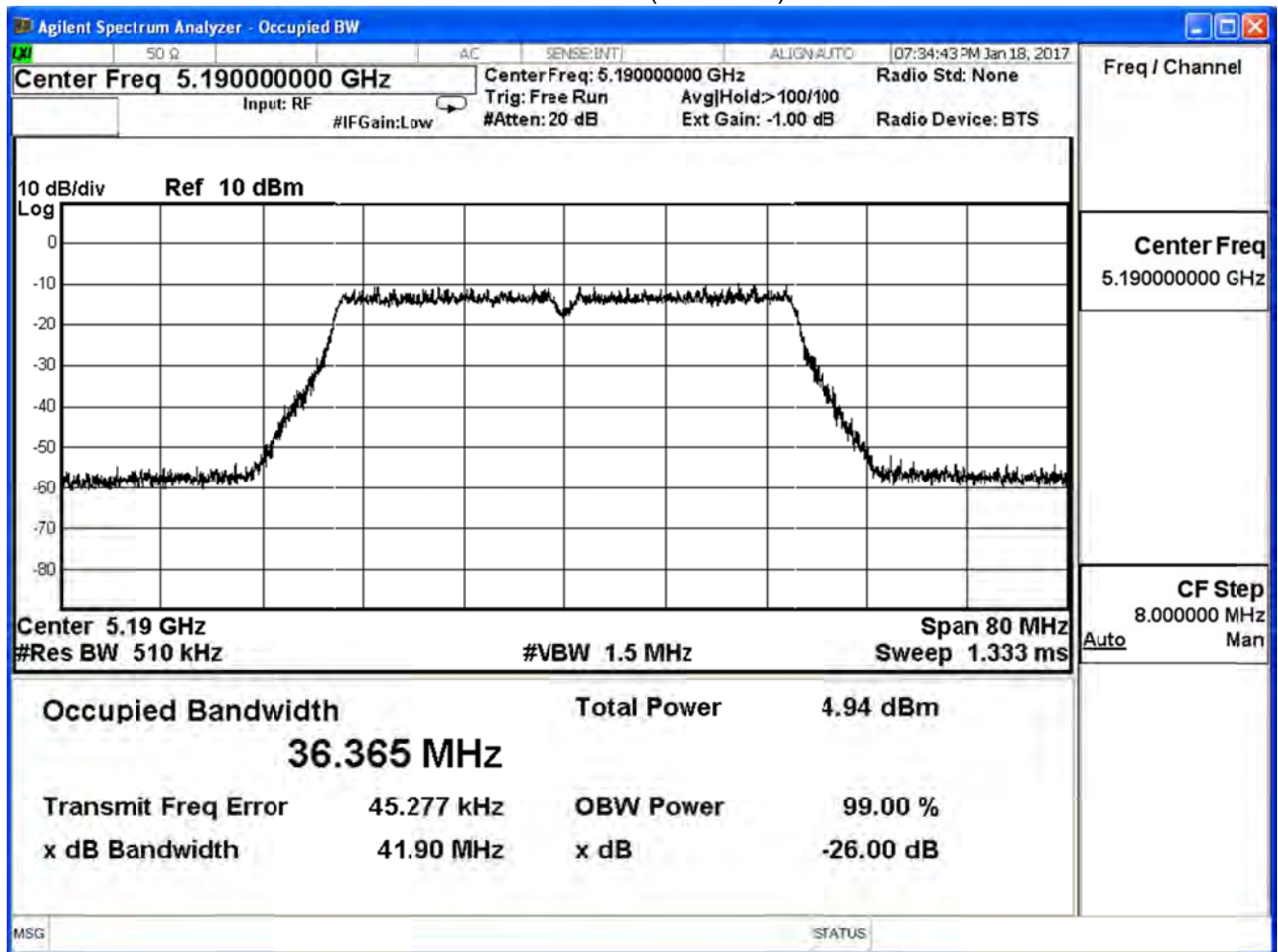


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

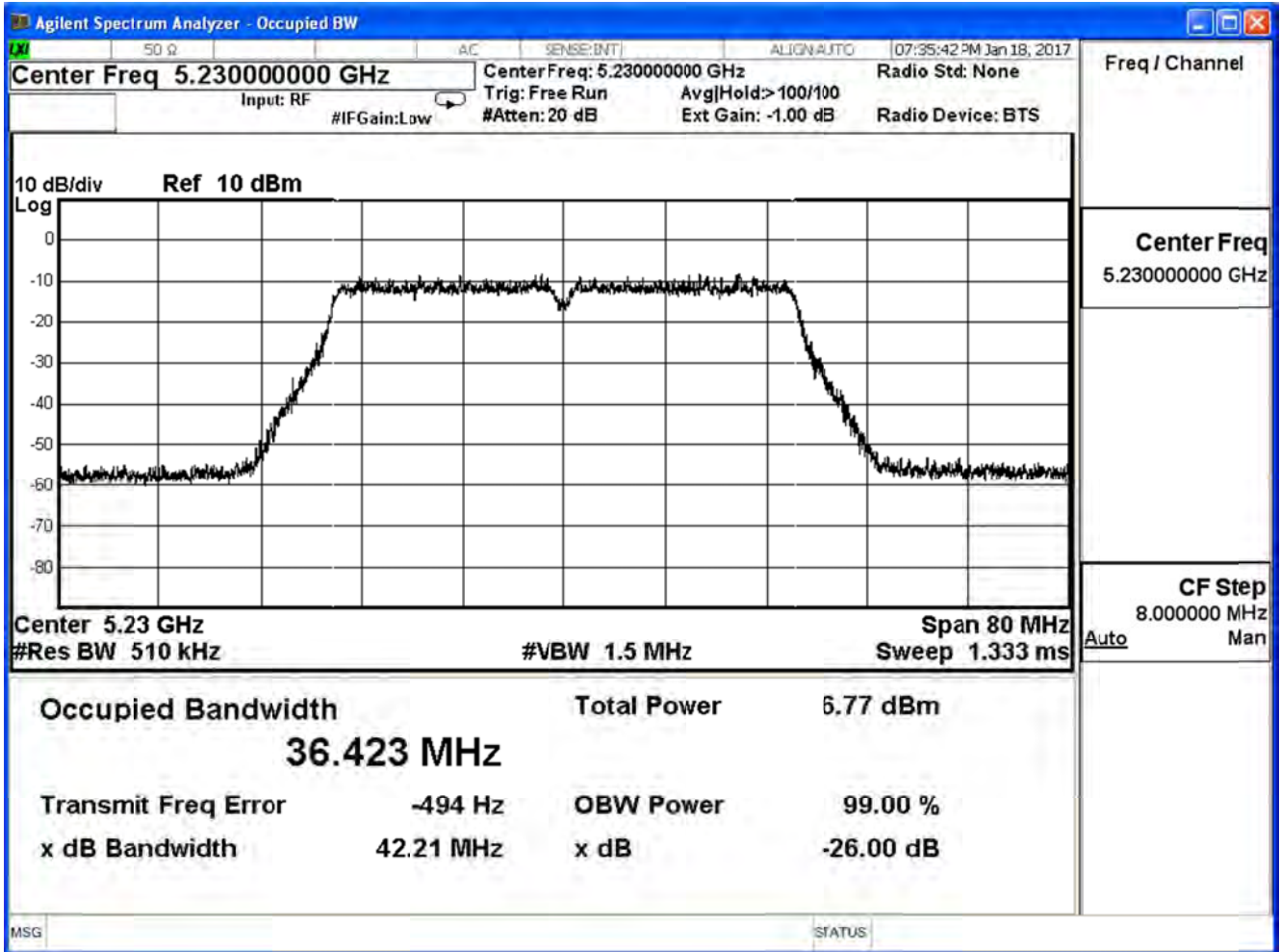
IEEE 802.11ac40 (ANT 1)

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)

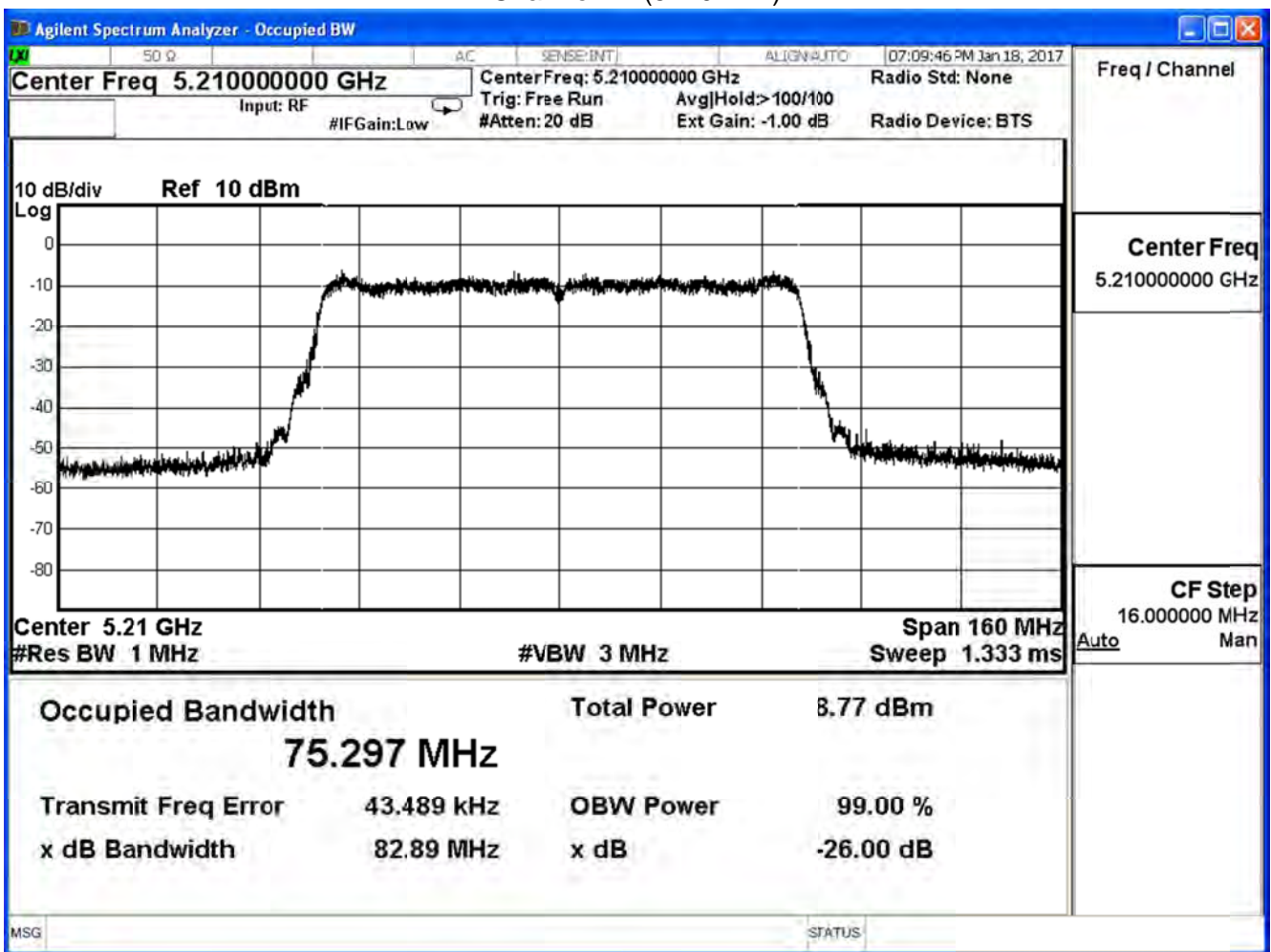


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

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)

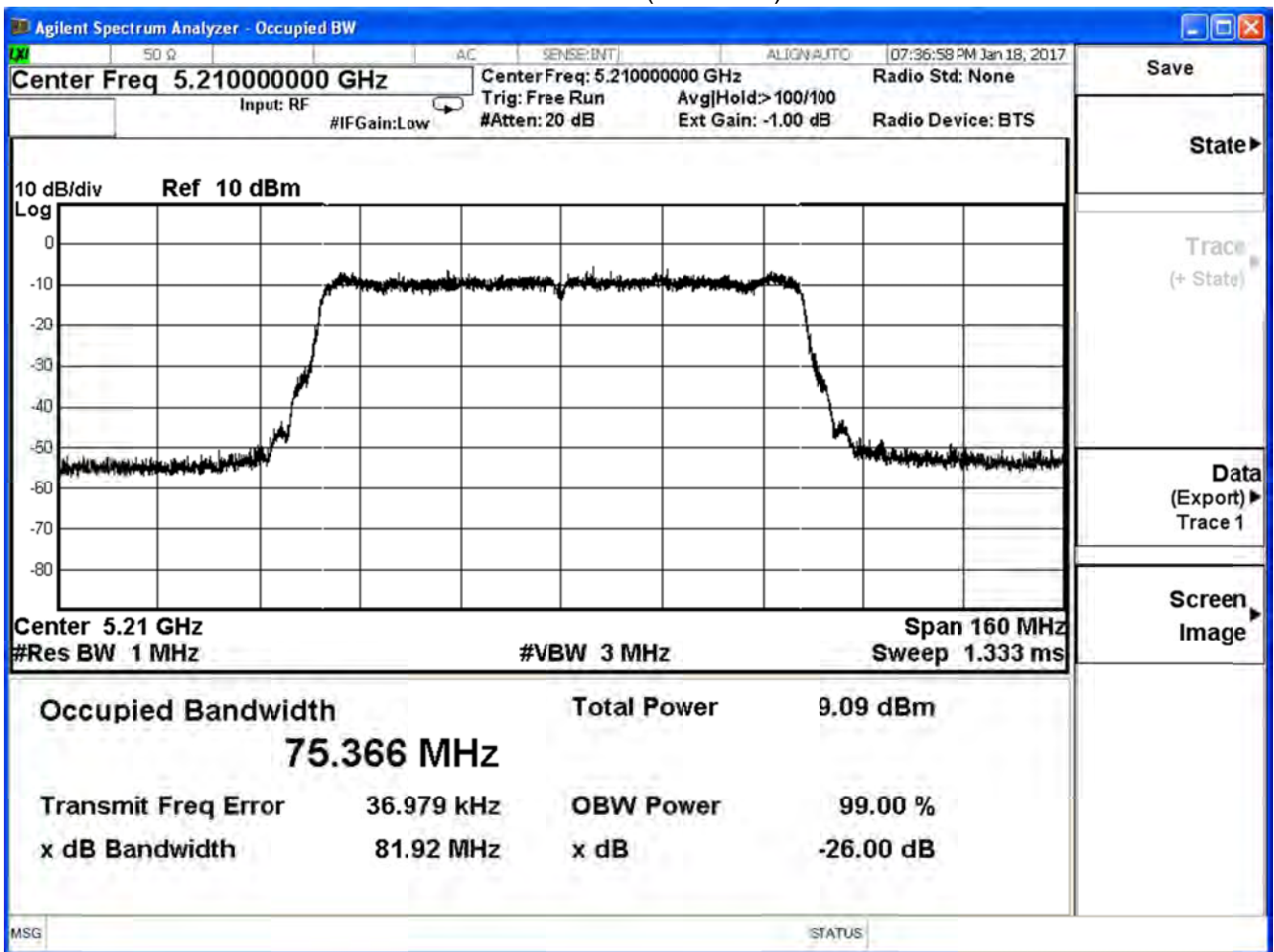


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 1)

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

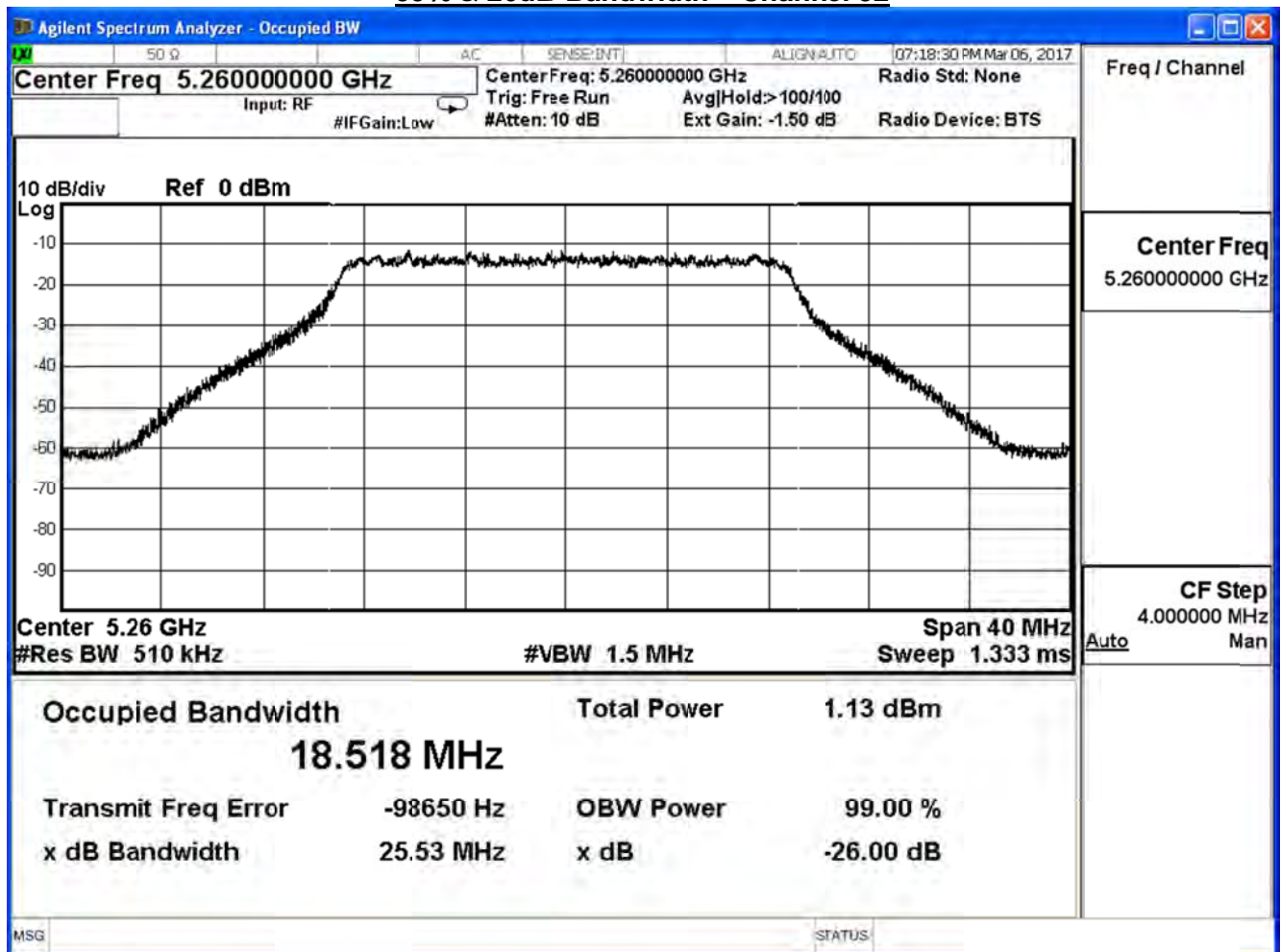
Channel 42 (5210MHz)



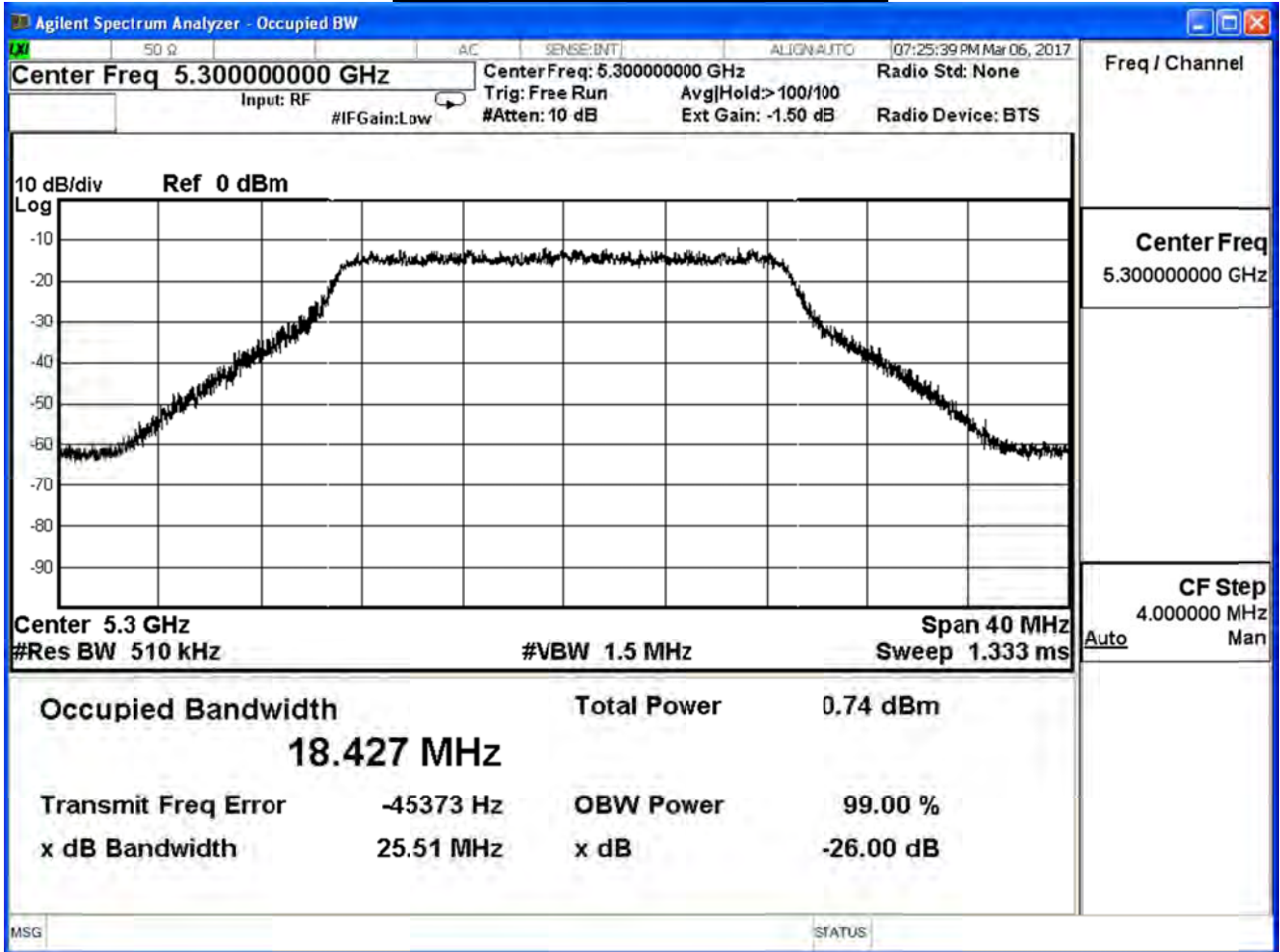
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_20M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
52	5260	25.530	18.518	--	Pass
60	5300	25.510	18.427	--	Pass
64	5320	25.450	18.441	--	Pass

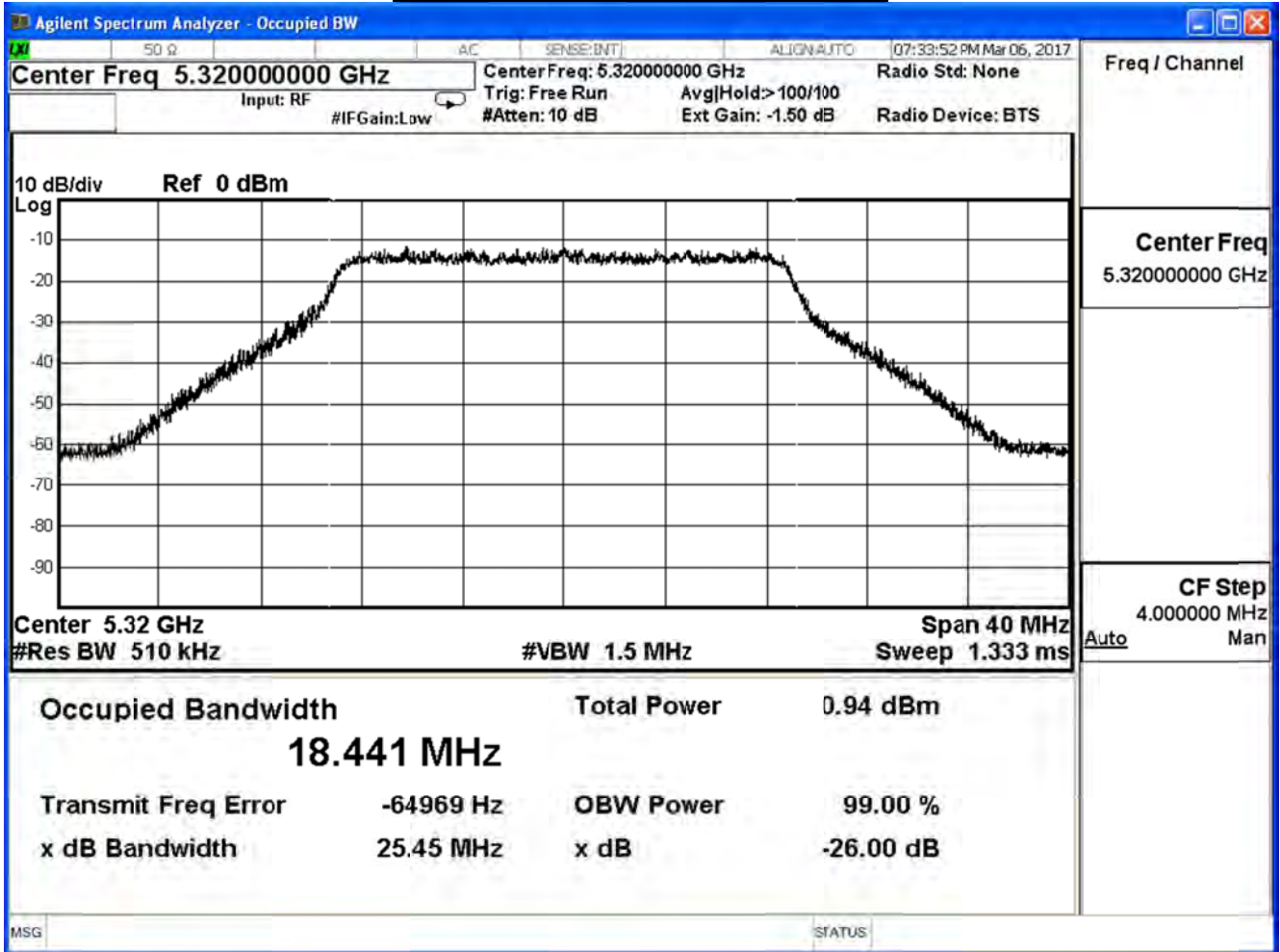
99% & 26dB Bandwidth – Channel 52



99% & 26dB Bandwidth – Channel 60



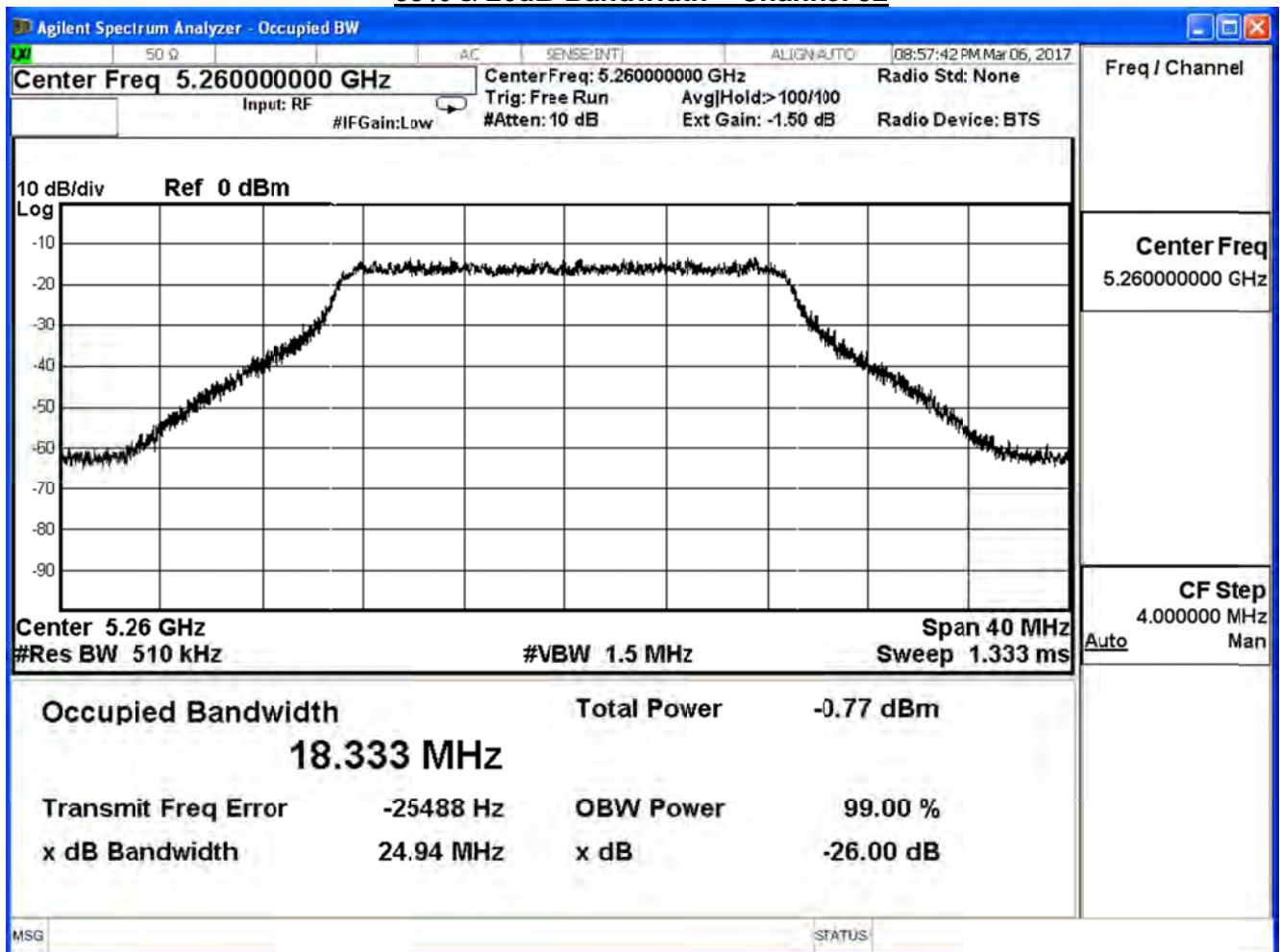
99% & 26dB Bandwidth – Channel 64



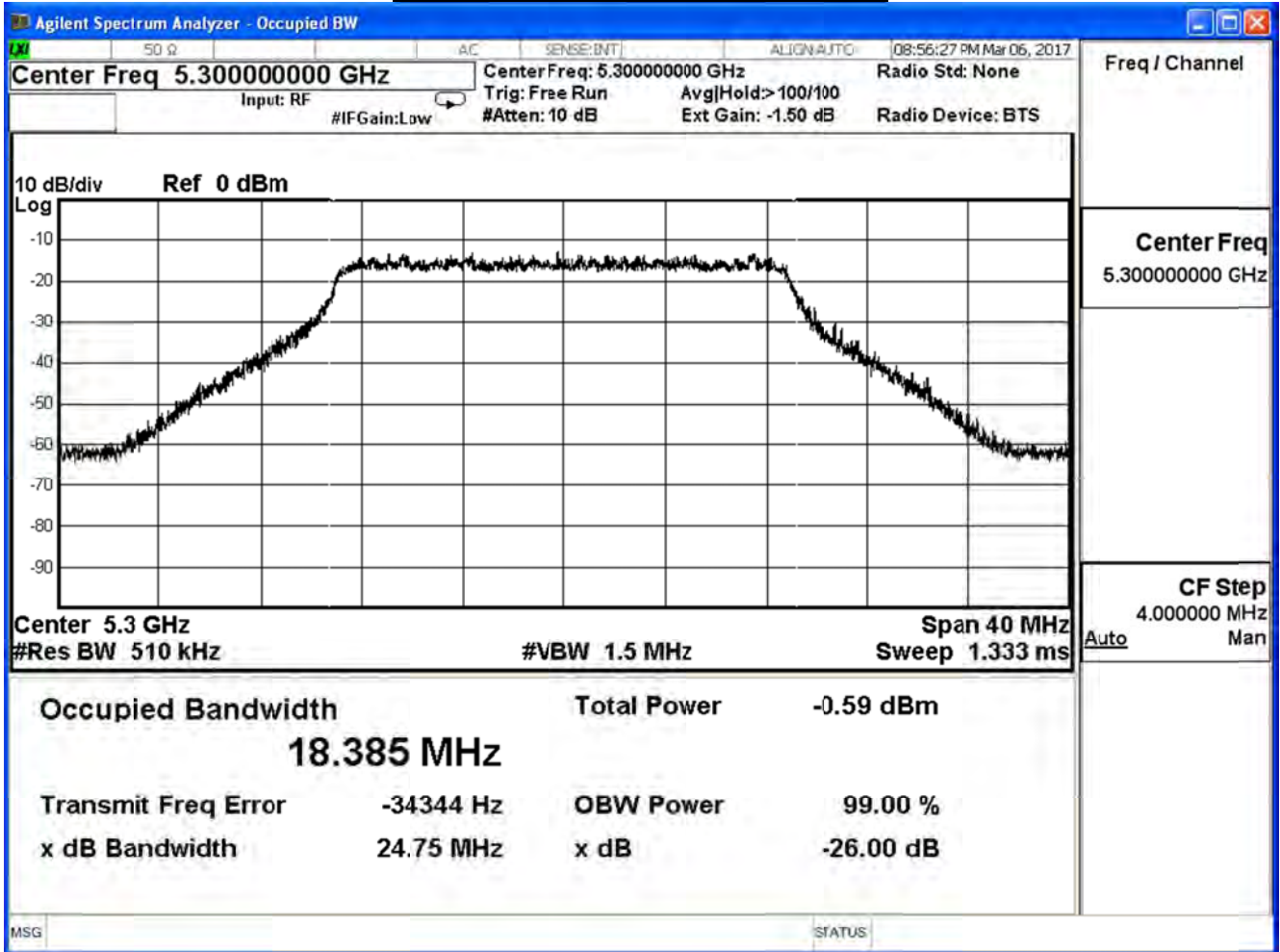
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_20M (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
52	5260	24.940	18.333	--	Pass
60	5300	24.750	18.385	--	Pass
64	5320	25.110	18.410	--	Pass

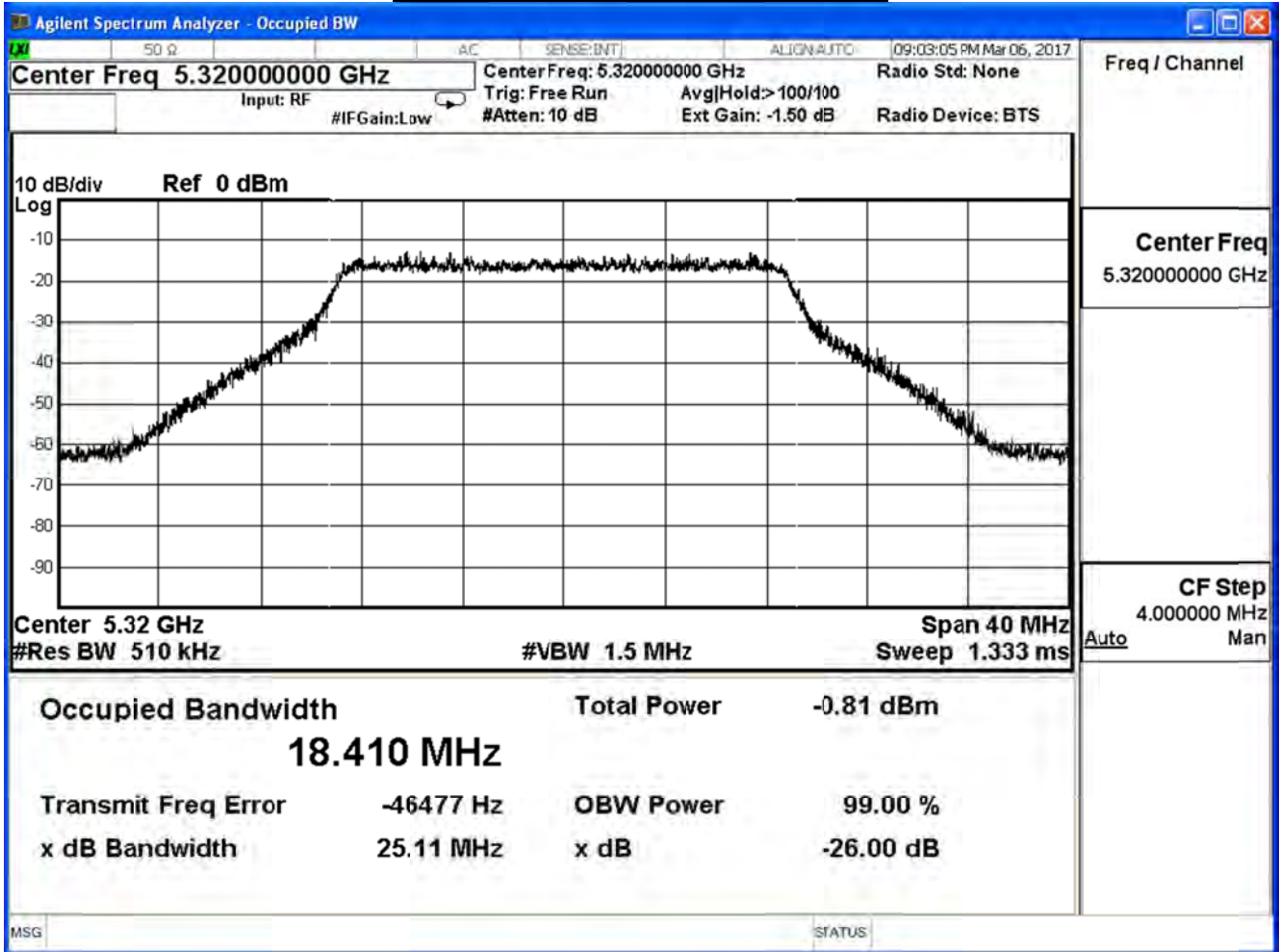
99% & 26dB Bandwidth – Channel 52



99% & 26dB Bandwidth – Channel 60



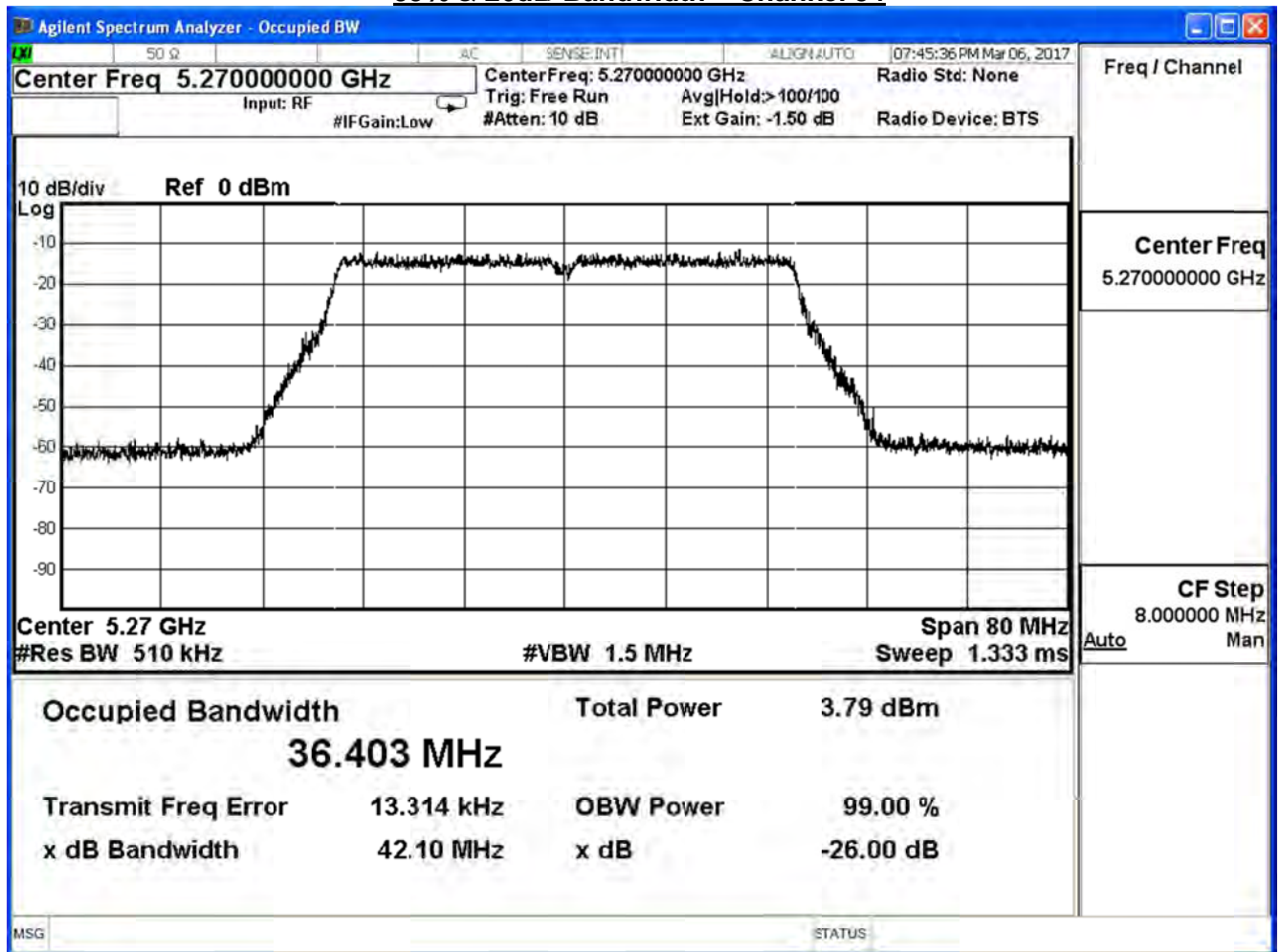
99% & 26dB Bandwidth – Channel 64



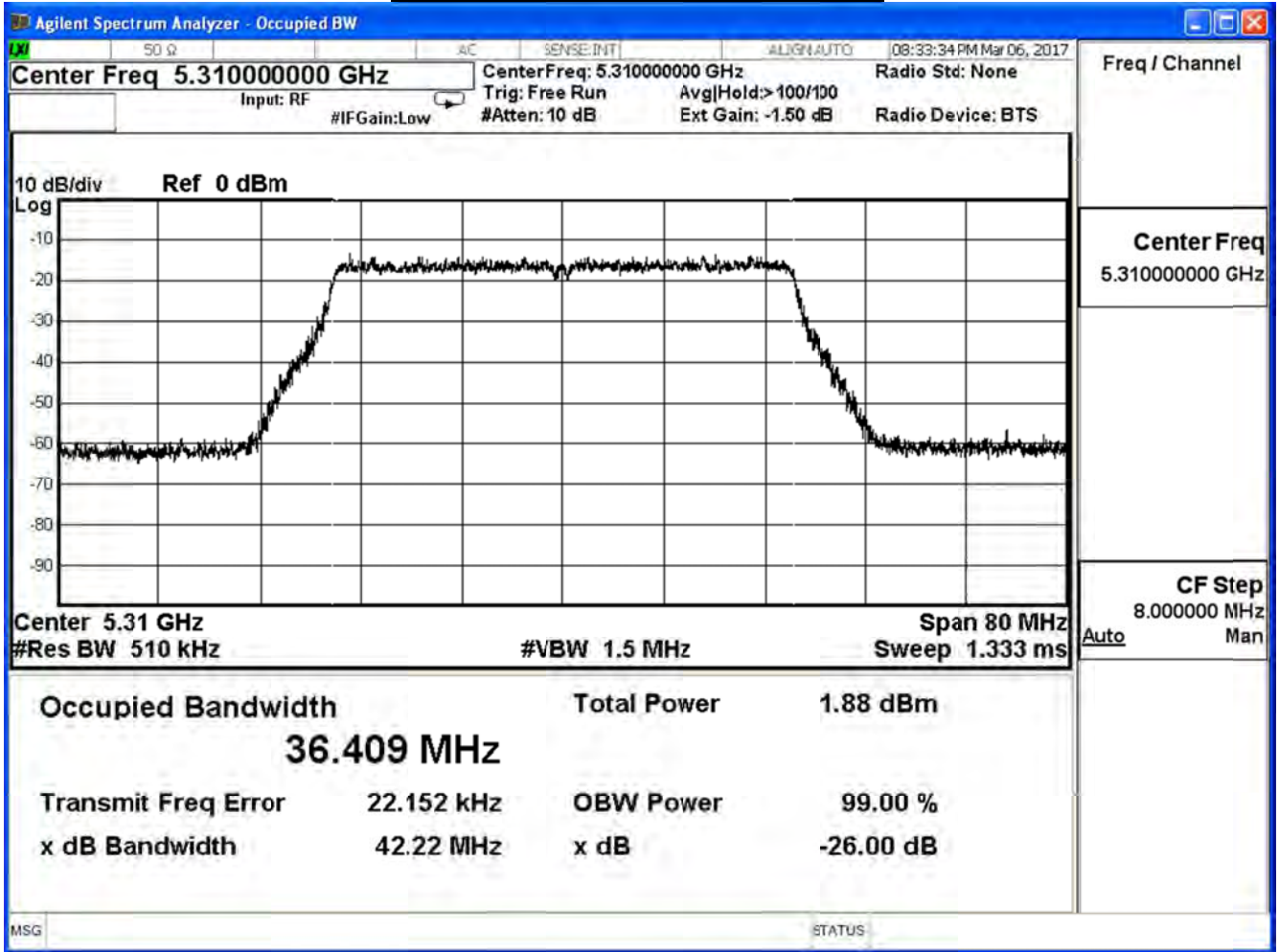
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_40M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
54	5270	42.100	36.403	--	Pass
62	5310	42.220	36.409	--	Pass

99% & 26dB Bandwidth – Channel 54



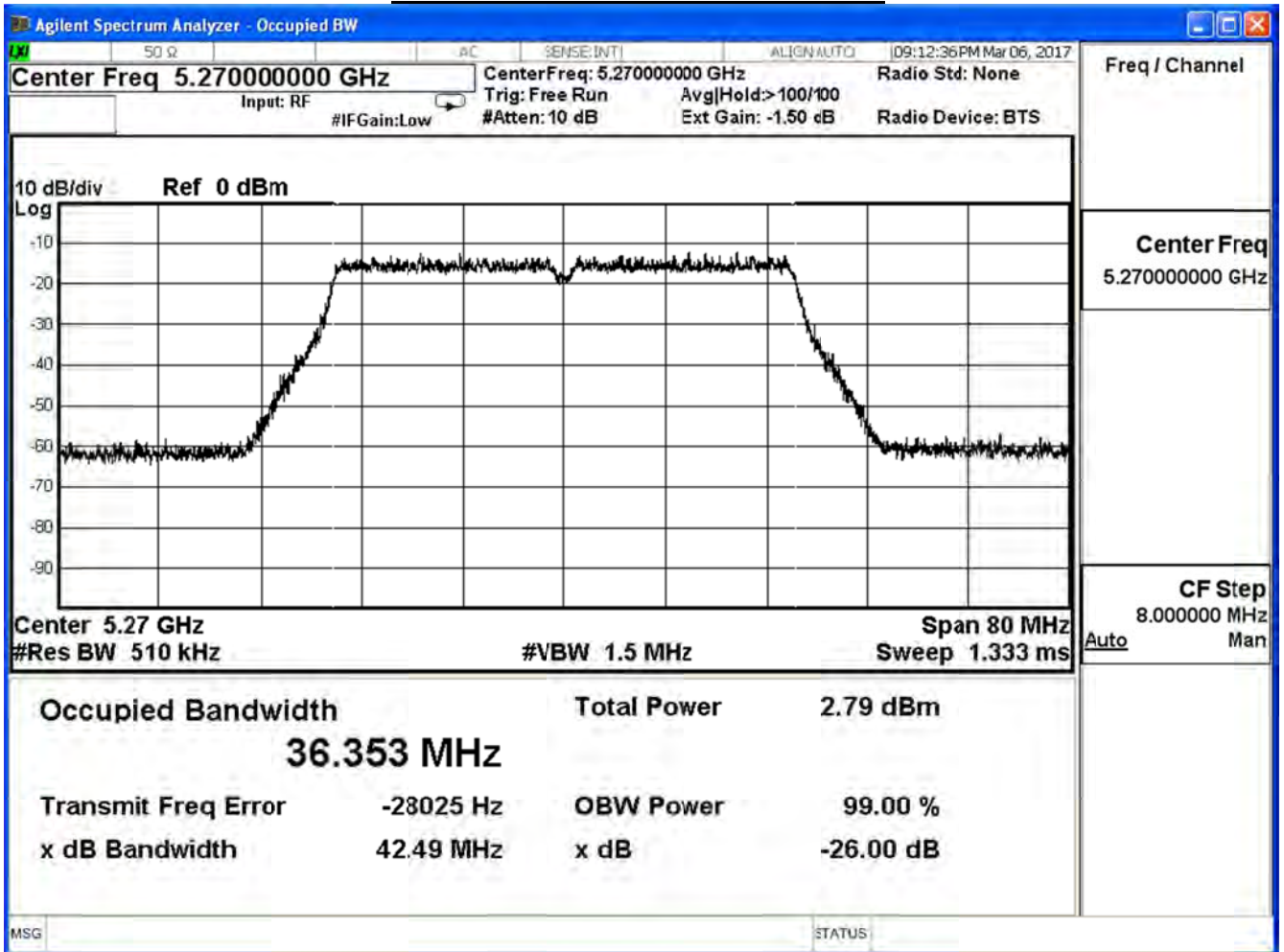
99% & 26dB Bandwidth – Channel 62



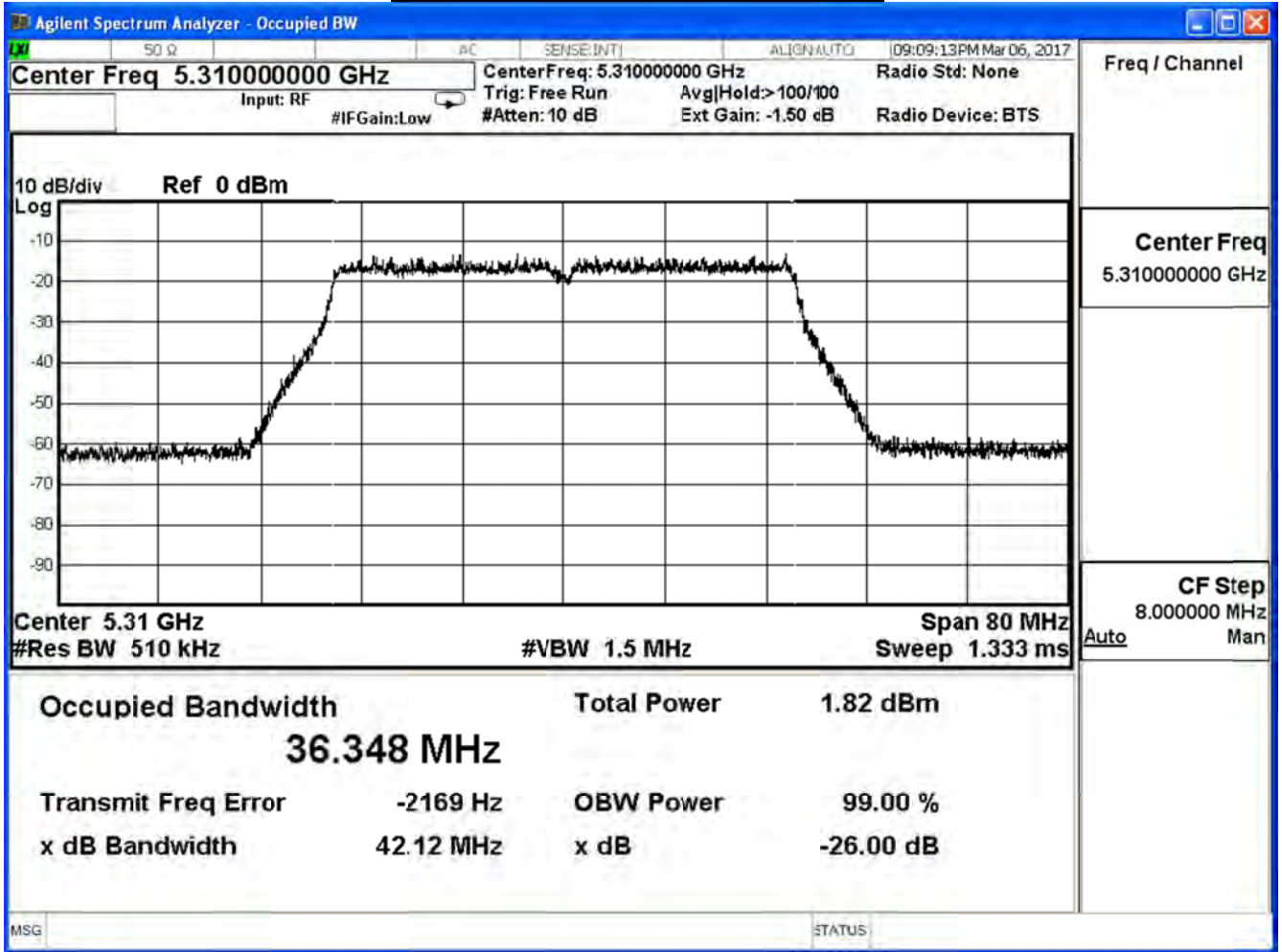
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_40M (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
54	5270	42.490	36.353	--	Pass
62	5310	42.120	36.348	--	Pass

99% & 26dB Bandwidth – Channel 54



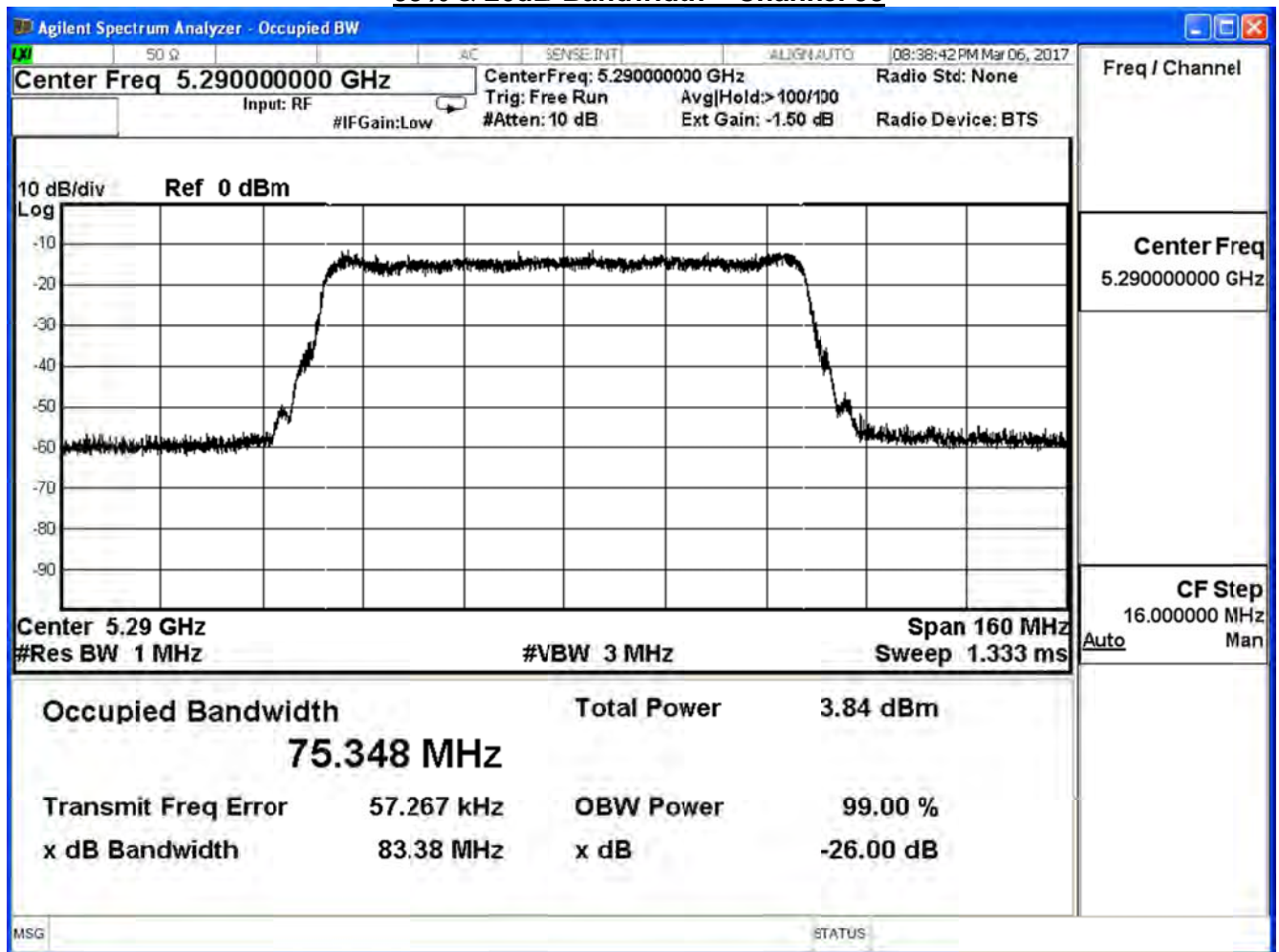
99% & 26dB Bandwidth – Channel 62



Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_80M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
58	5290	83.38	75.348	--	Pass

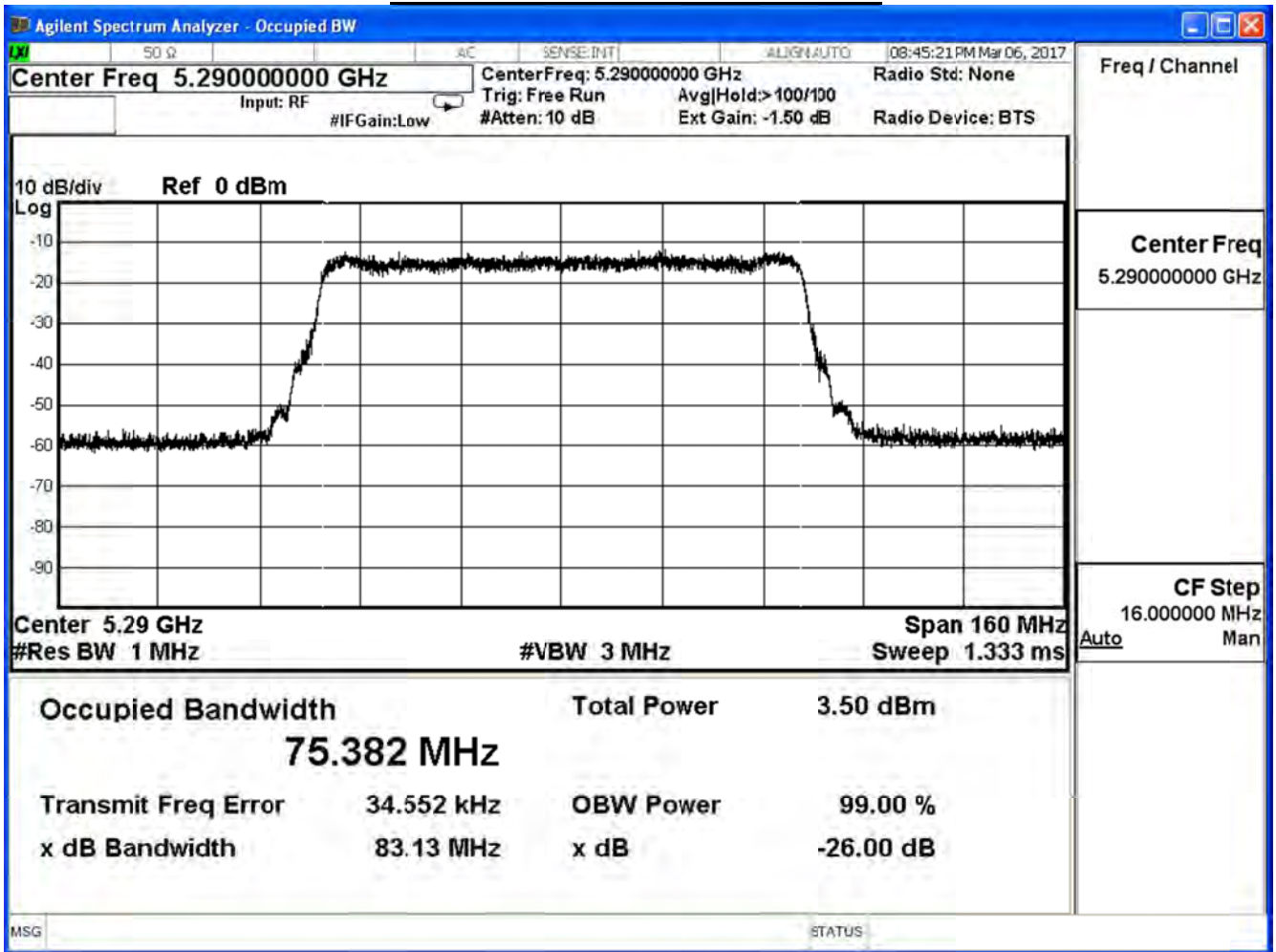
99% & 26dB Bandwidth – Channel 58



Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_80M (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
58	5290	83.13	75.382	--	Pass

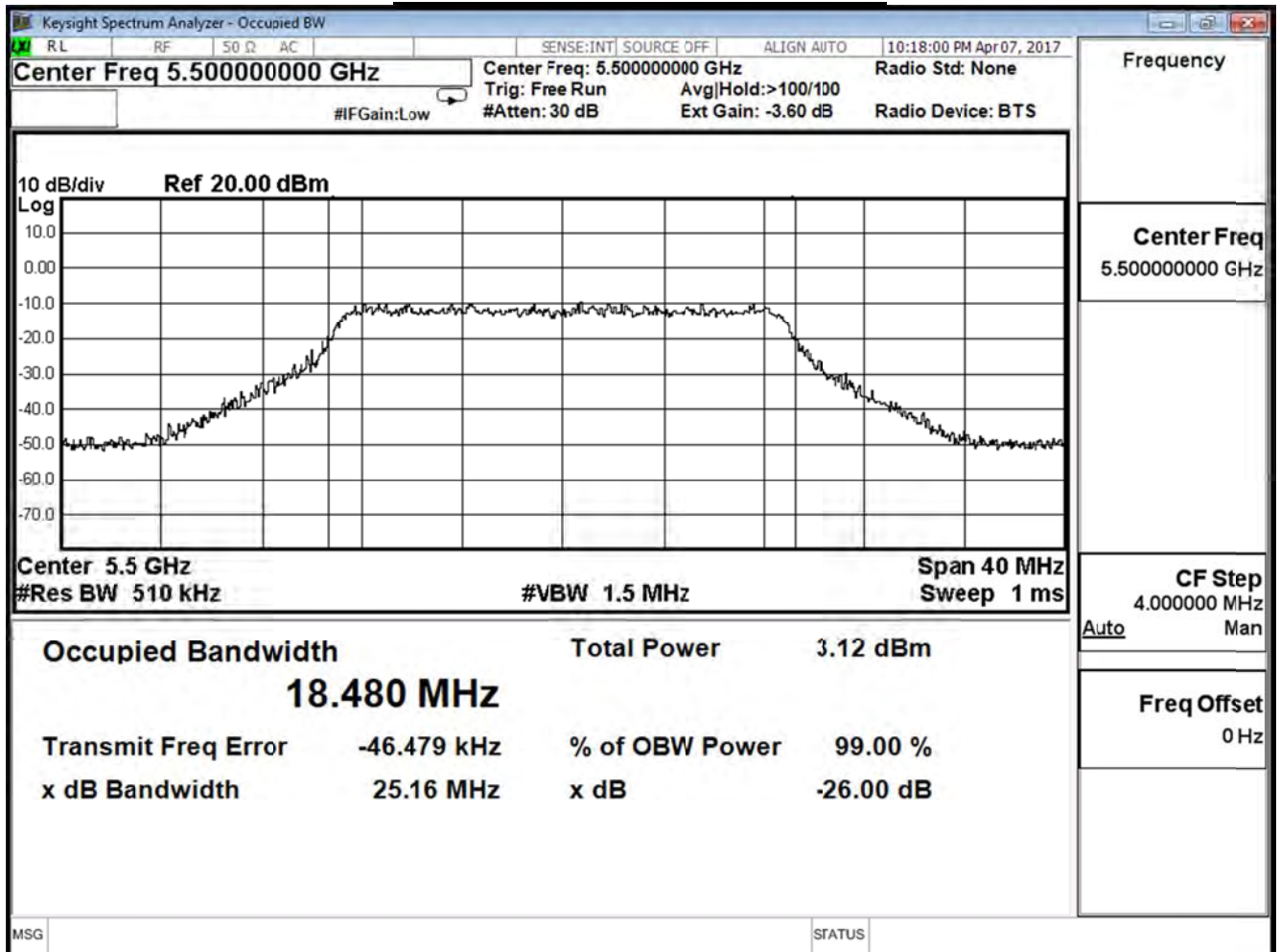
99% & 26dB Bandwidth – Channel 58



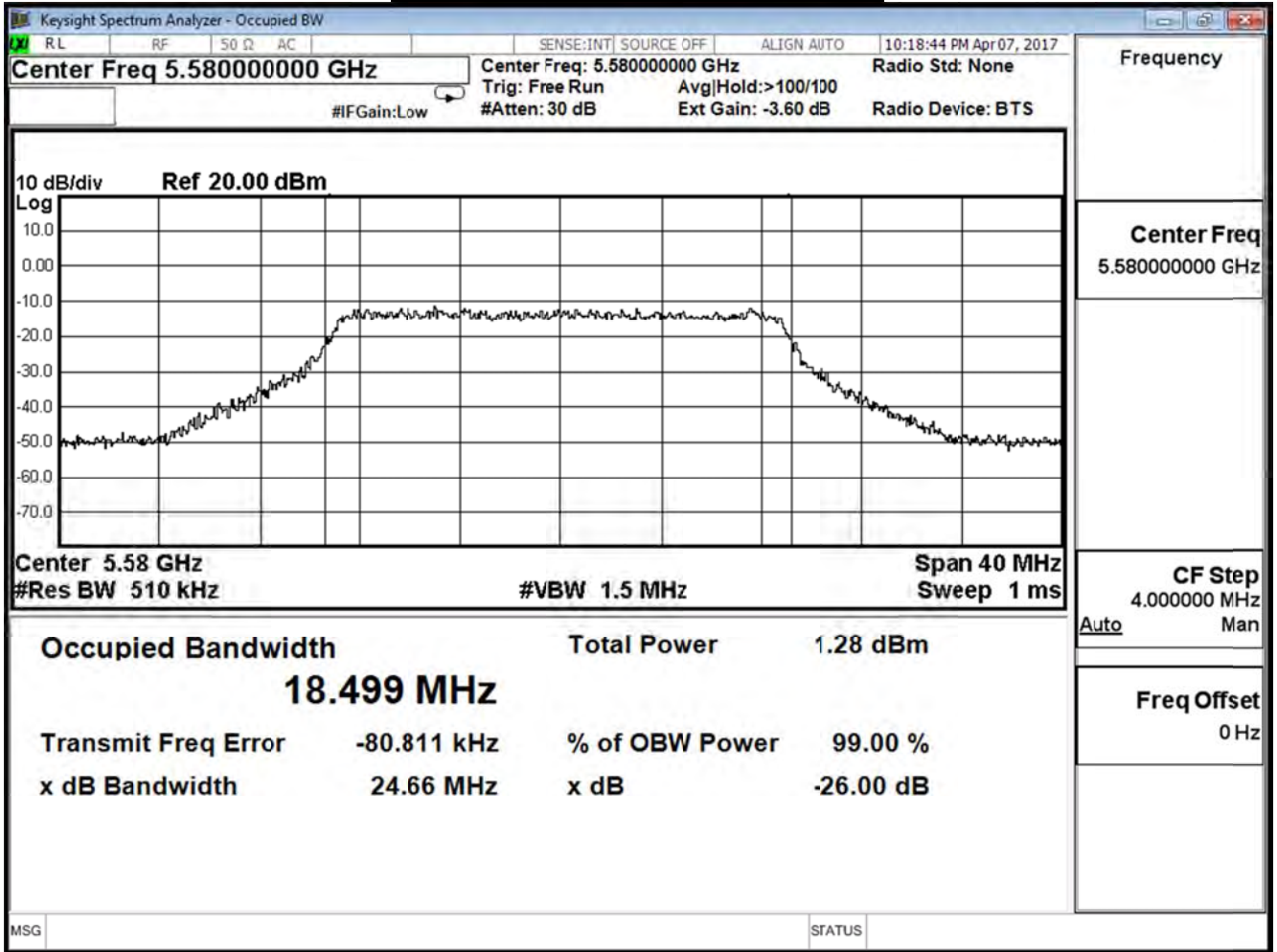
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11ac_20M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
100	5500	25.160	18.480	--	Pass
116	5580	24.660	18.499	--	Pass
140	5700	24.920	18.490	--	Pass

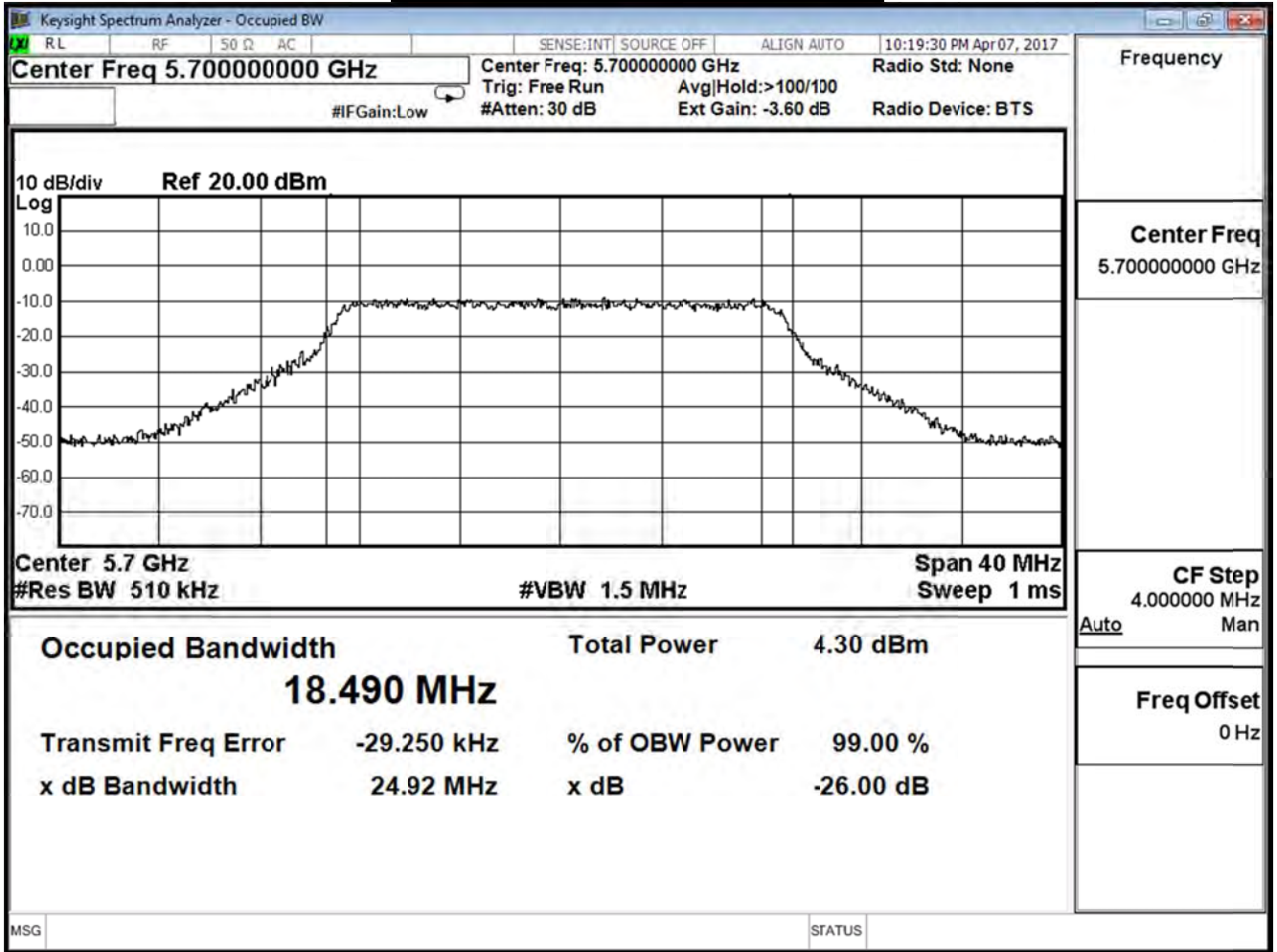
99% & 26dB Bandwidth – Channel 52



99% & 26dB Bandwidth – Channel 60



99% & 26dB Bandwidth – Channel 64

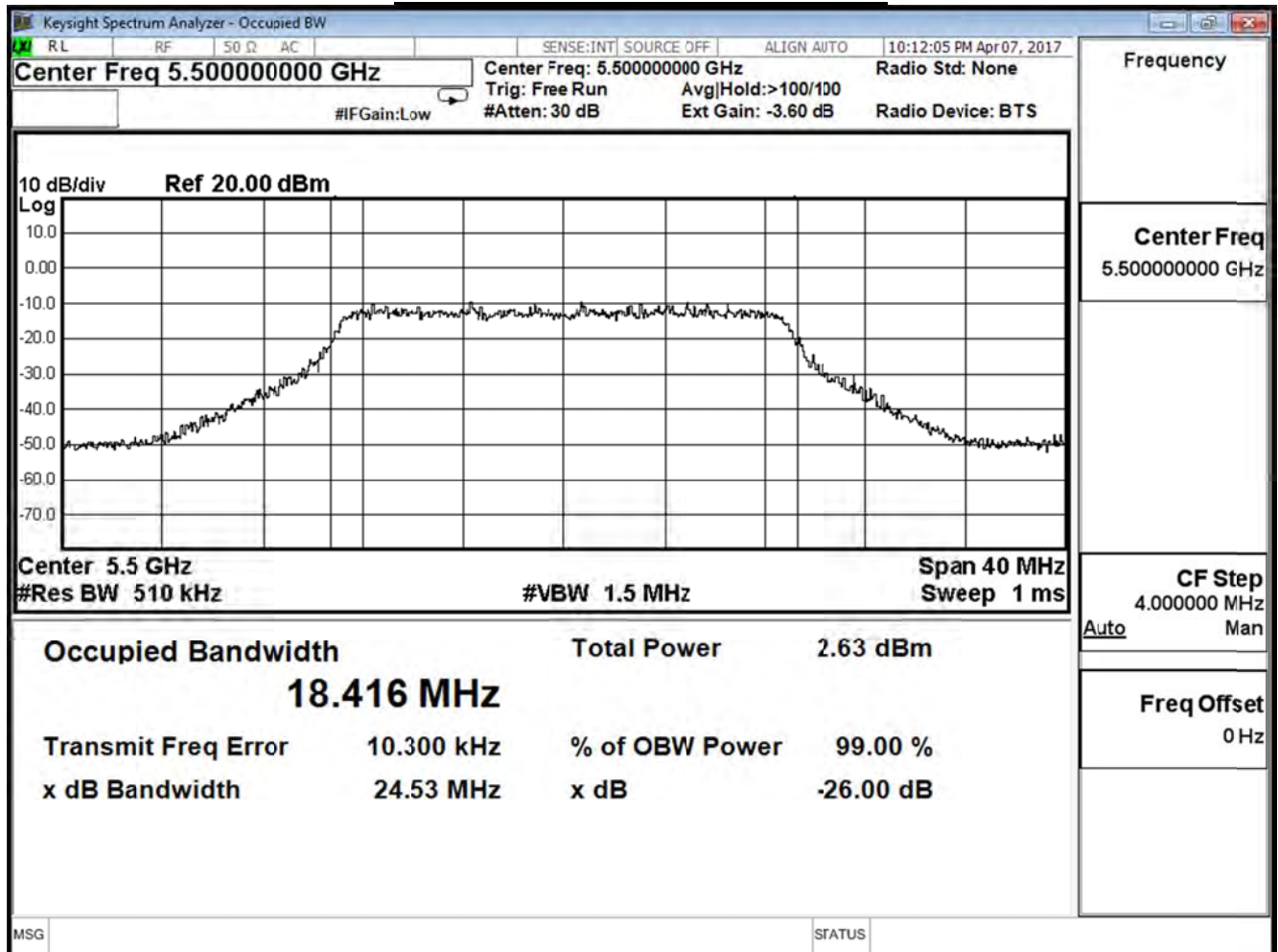


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

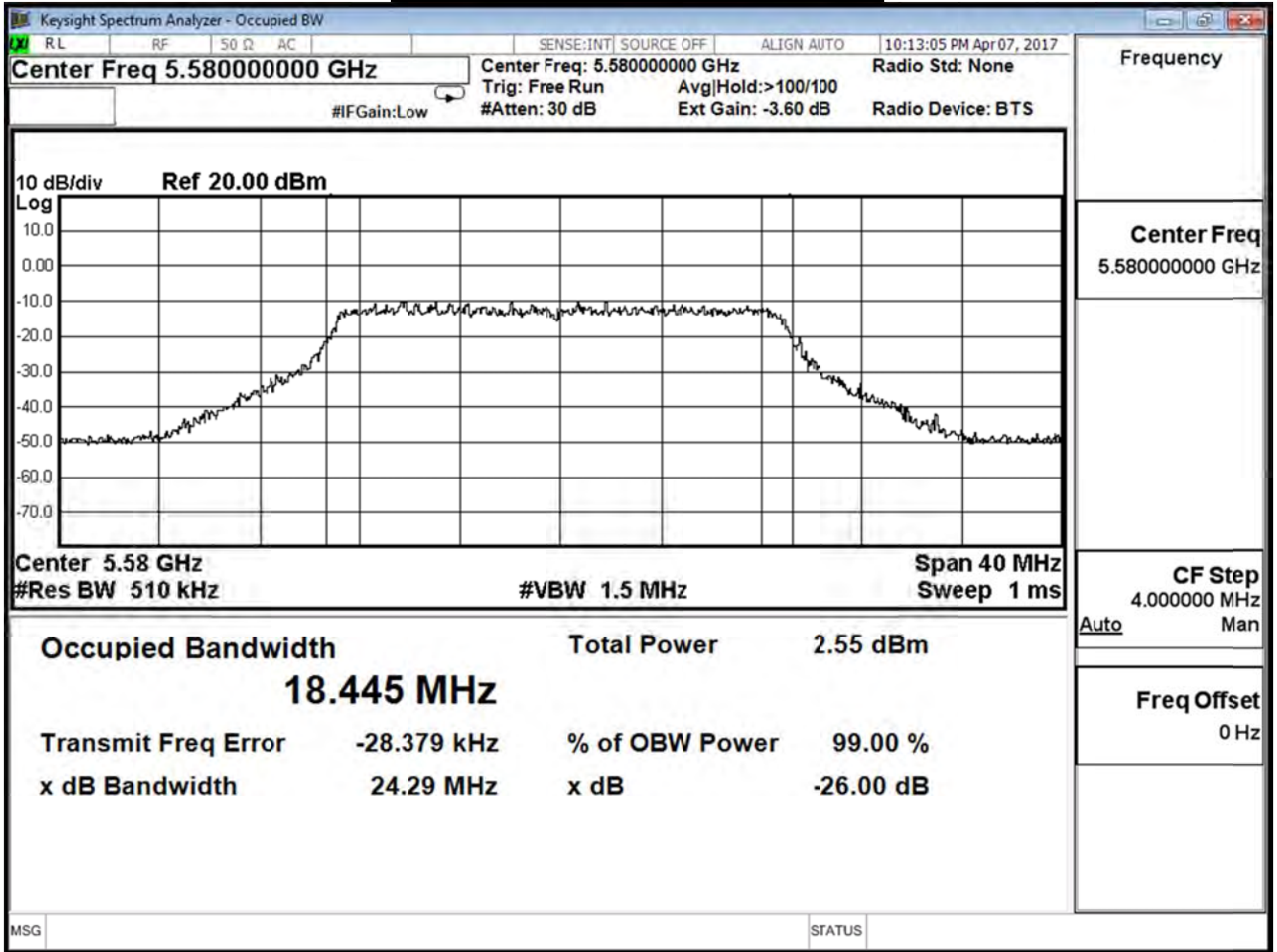
802.11ac_20M (ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
100	5500	24.530	18.416	--	Pass
116	5580	24.290	18.445	--	Pass
140	5700	24.040	18.416	--	Pass

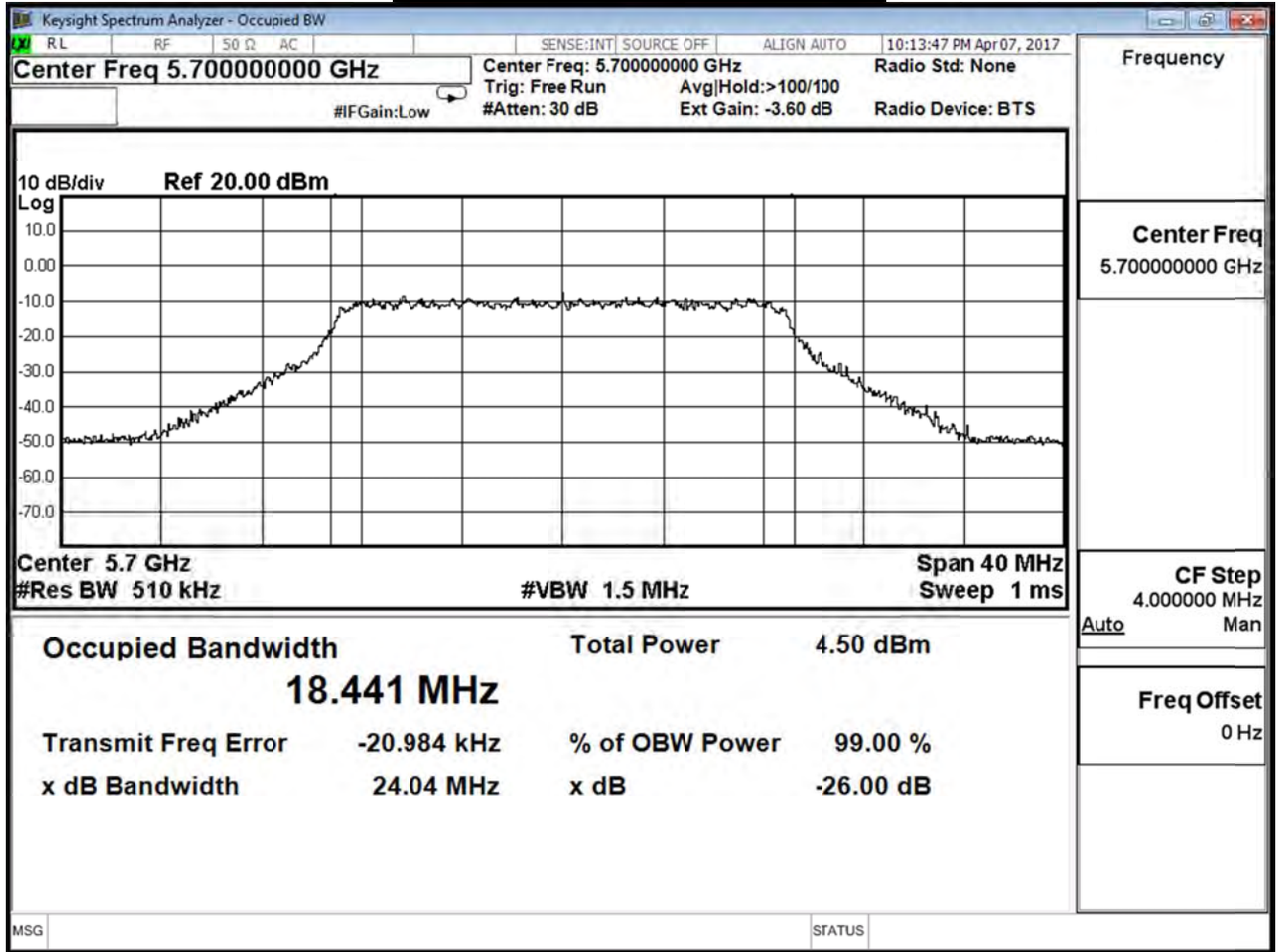
99% & 26dB Bandwidth – Channel 52



99% & 26dB Bandwidth – Channel 60



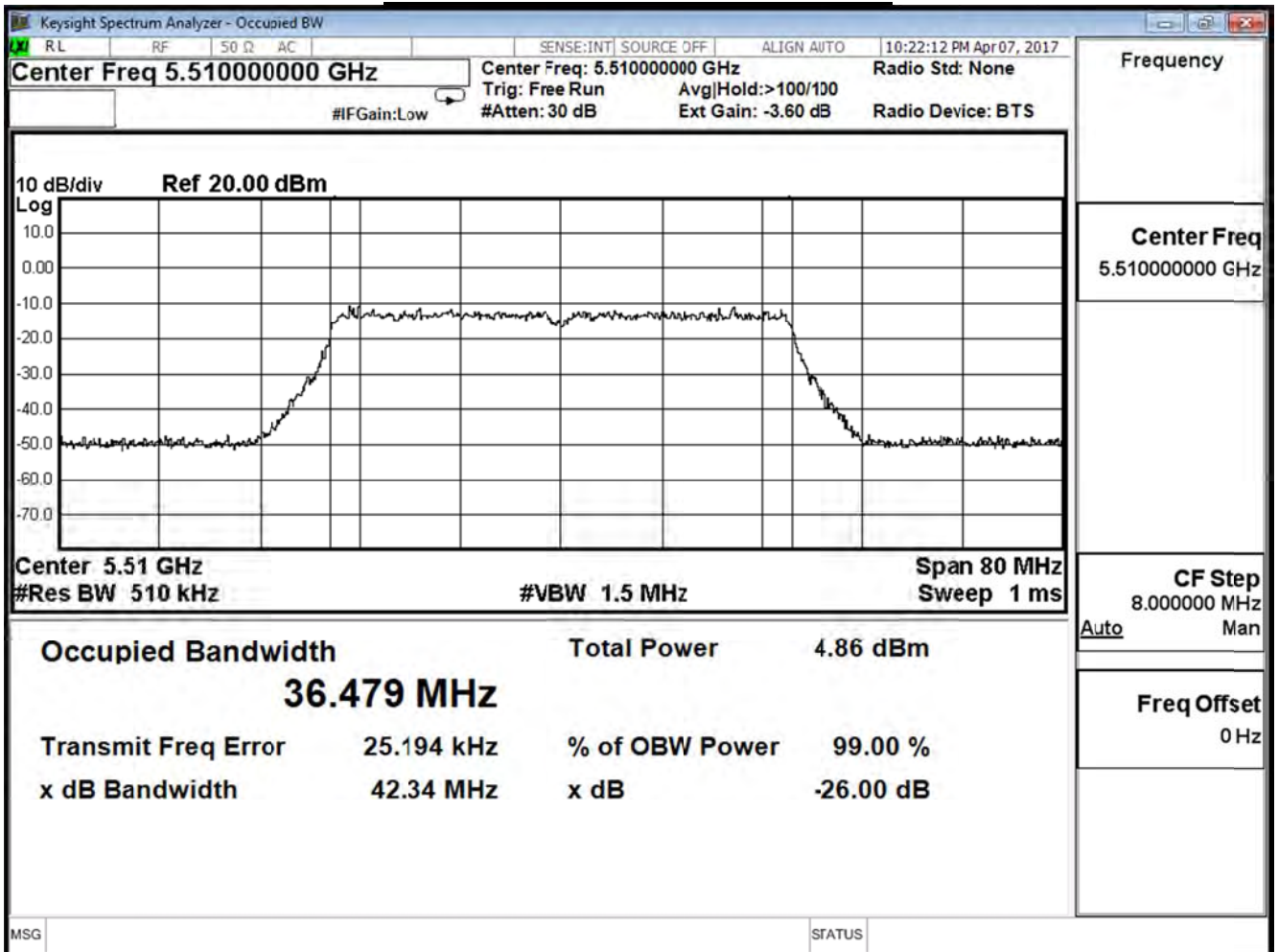
99% & 26dB Bandwidth – Channel 64



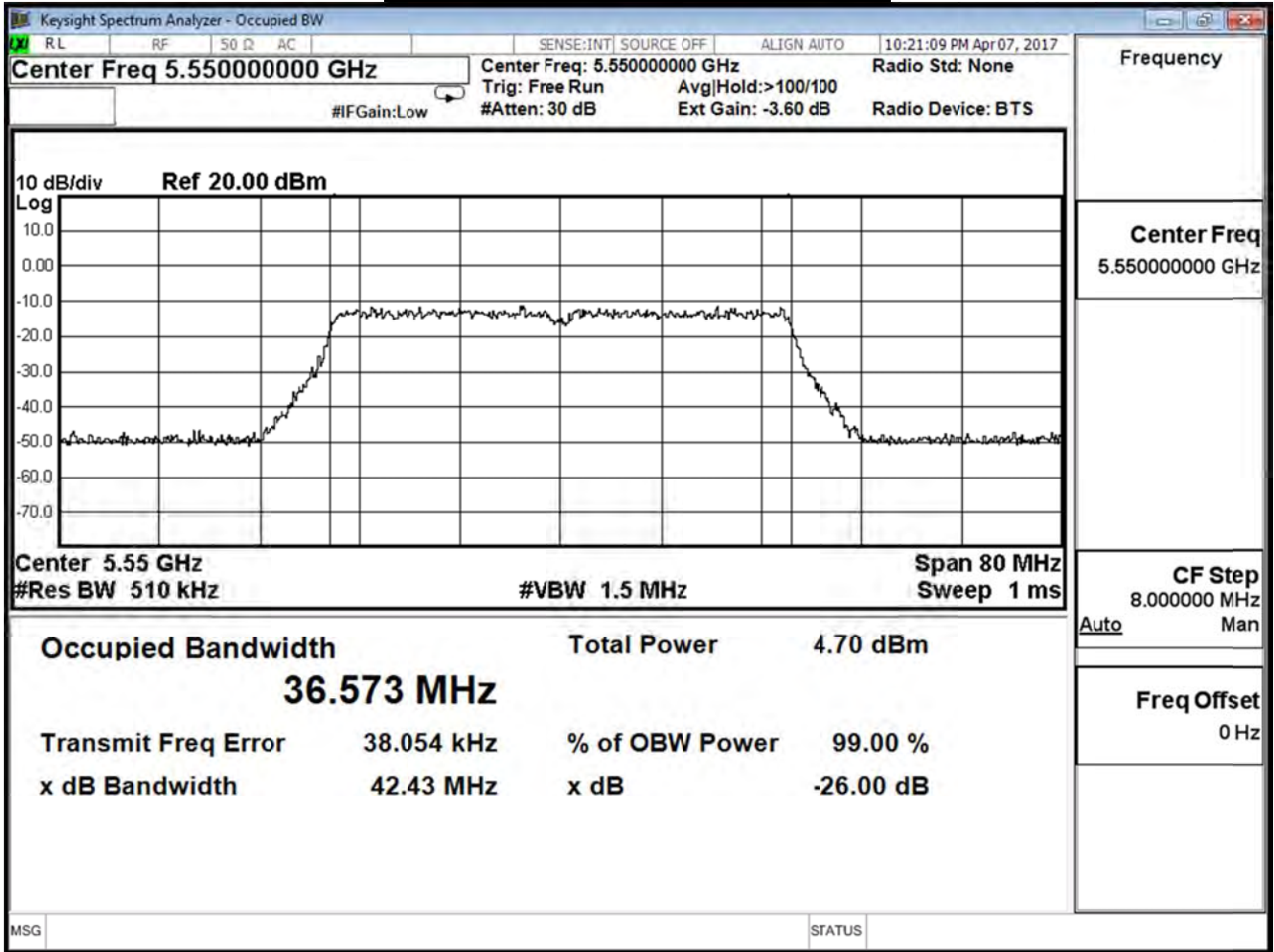
Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11n_40M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
102	5510	42.340	36.479	--	Pass
110	5550	42.430	36.573	--	Pass
134	5670	42.770	36.569	--	Pass

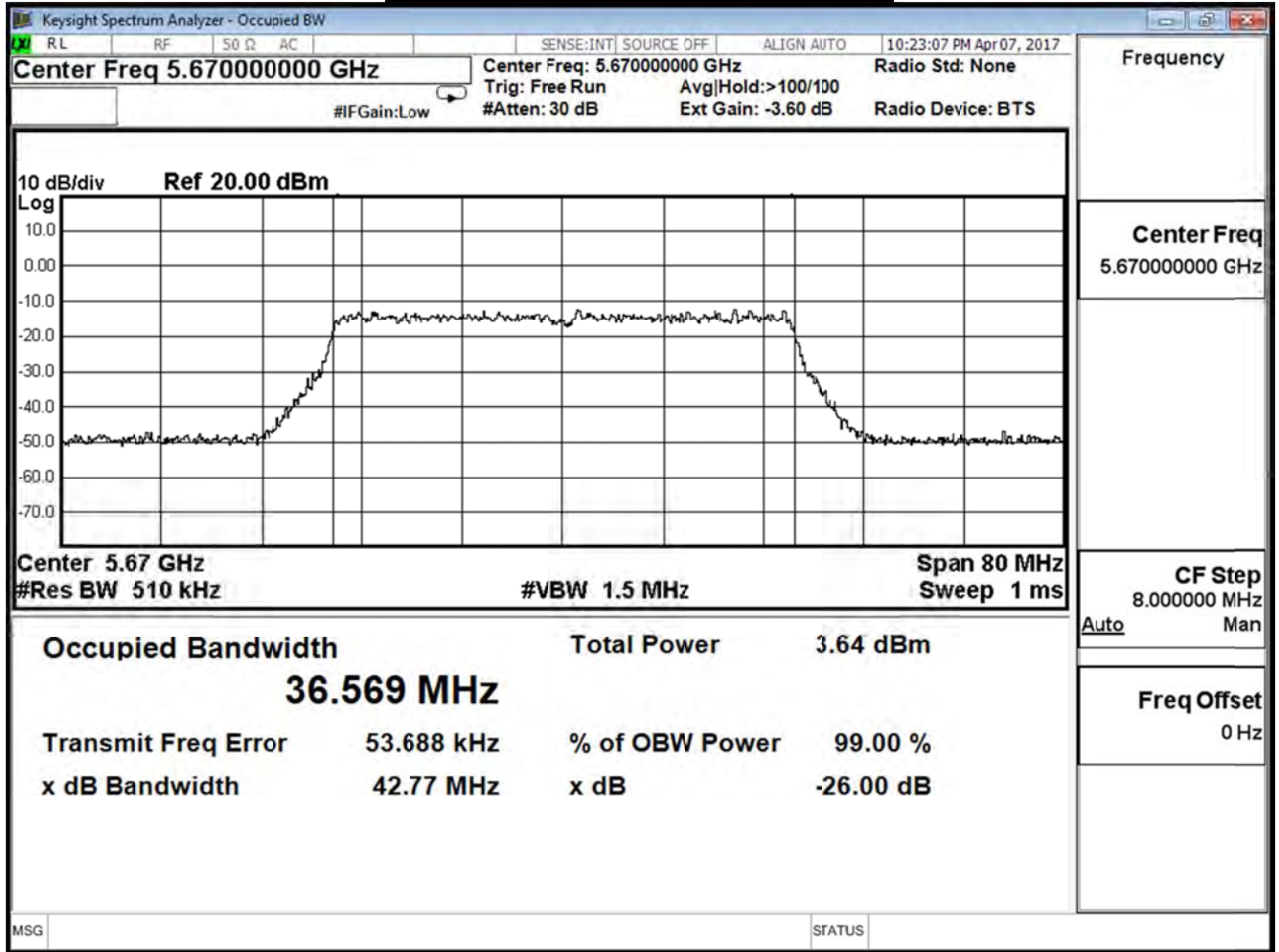
99% & 26dB Bandwidth – Channel 102



99% & 26dB Bandwidth – Channel 110



99% & 26dB Bandwidth – Channel 134

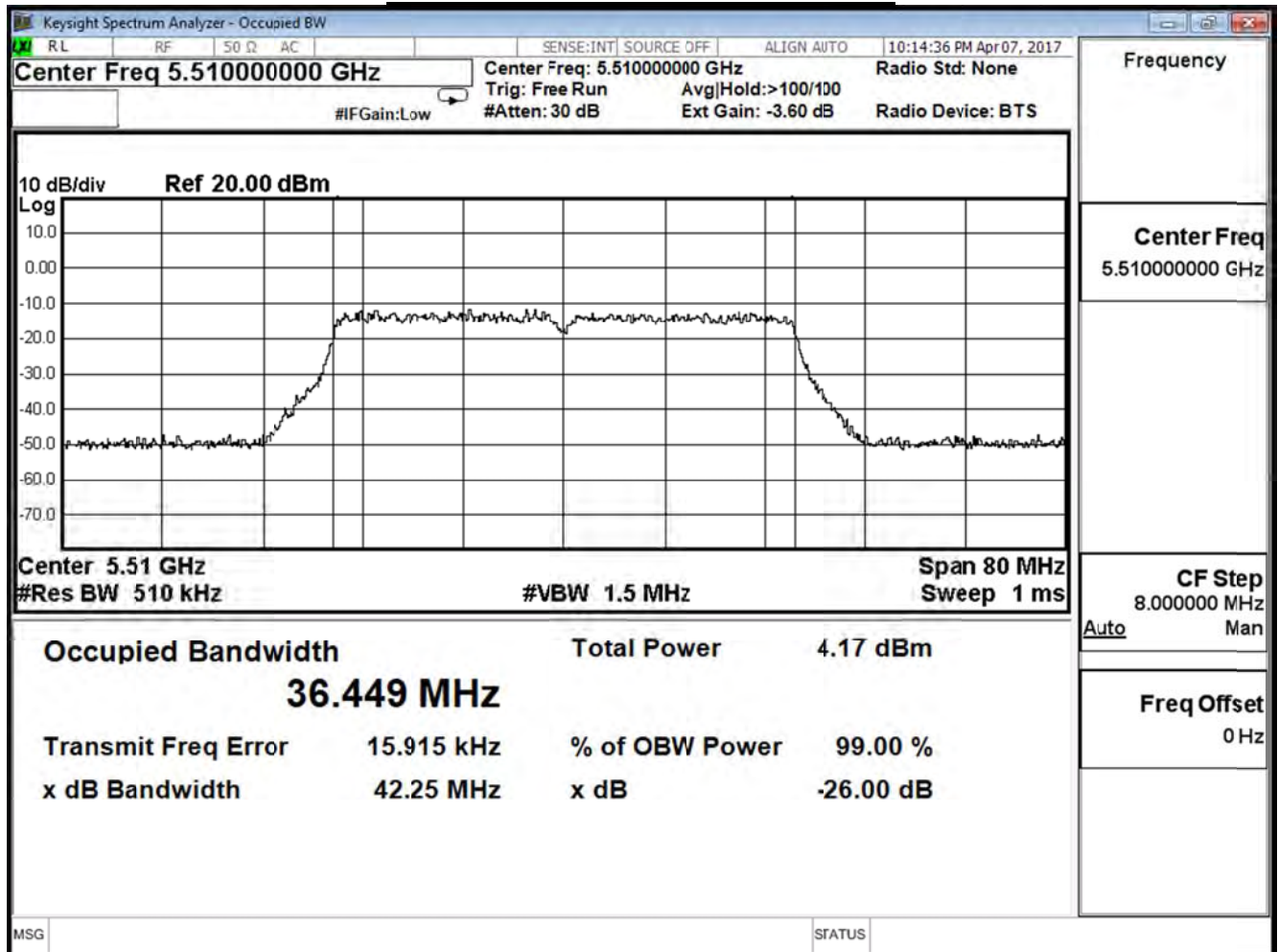


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

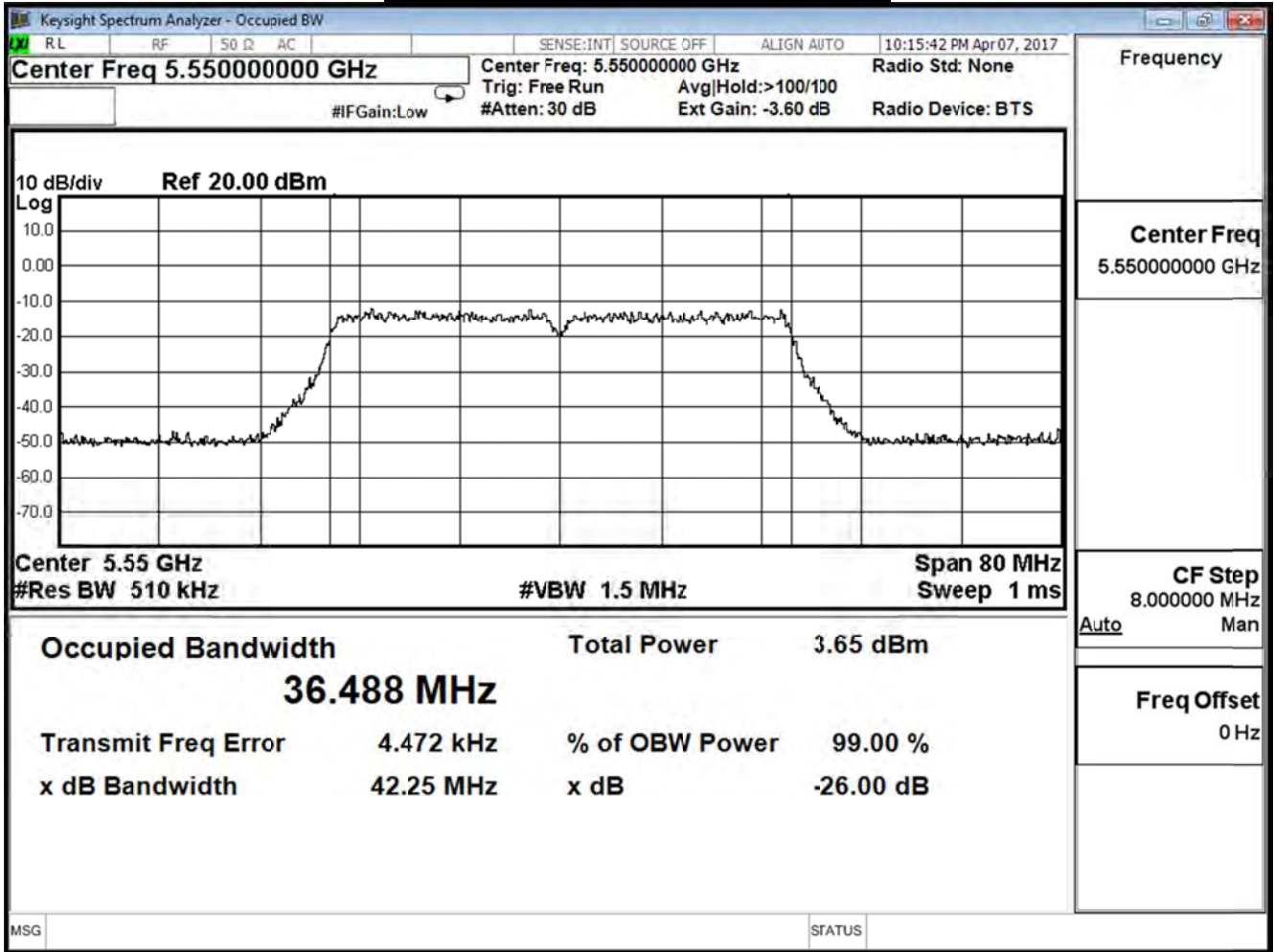
802.11n_40M (ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
102	5510	42.250	36.449	--	Pass
110	5550	42.250	36.488	--	Pass
134	5670	42.040	36.430	--	Pass

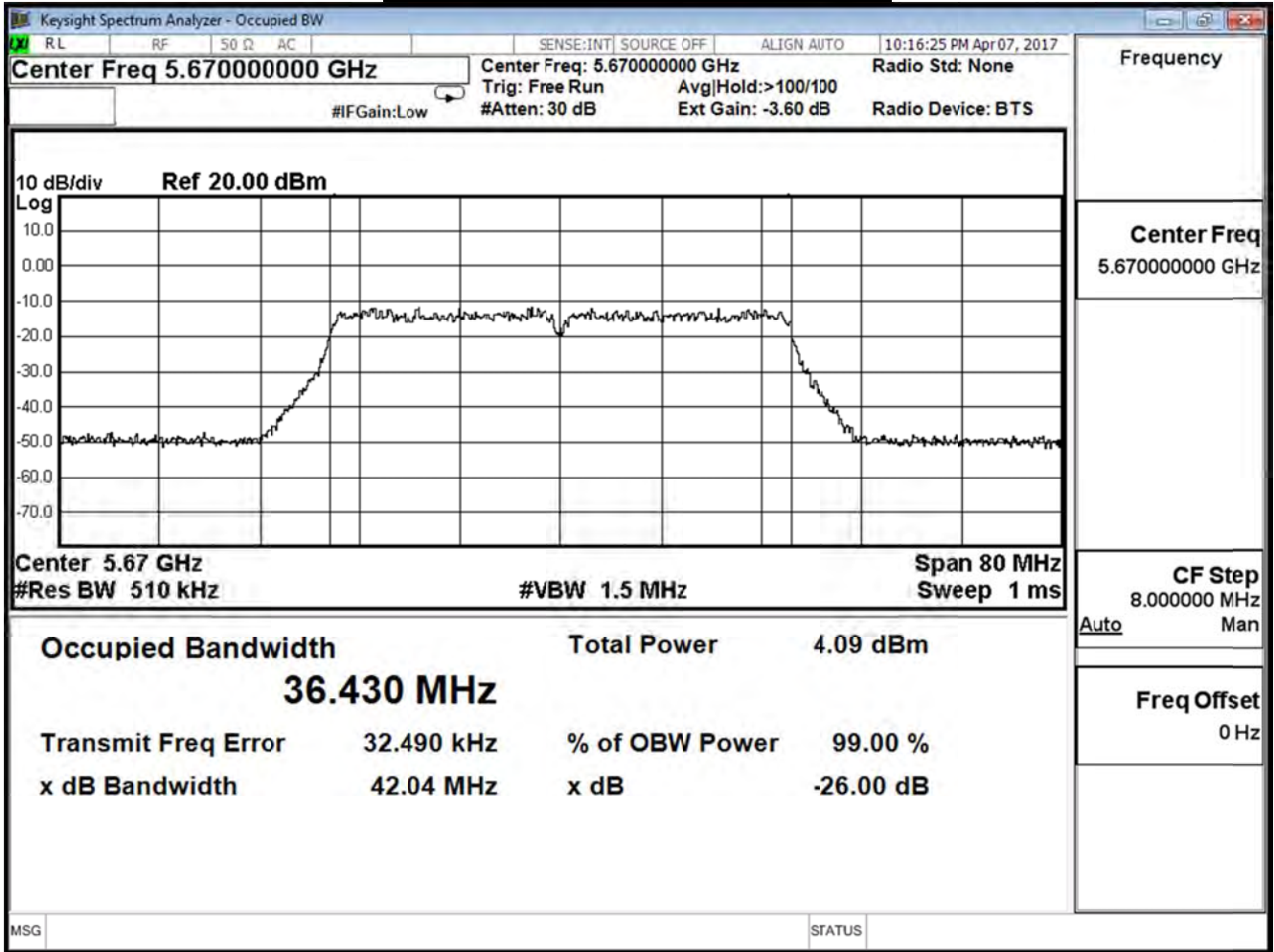
99% & 26dB Bandwidth – Channel 102



99% & 26dB Bandwidth – Channel 110



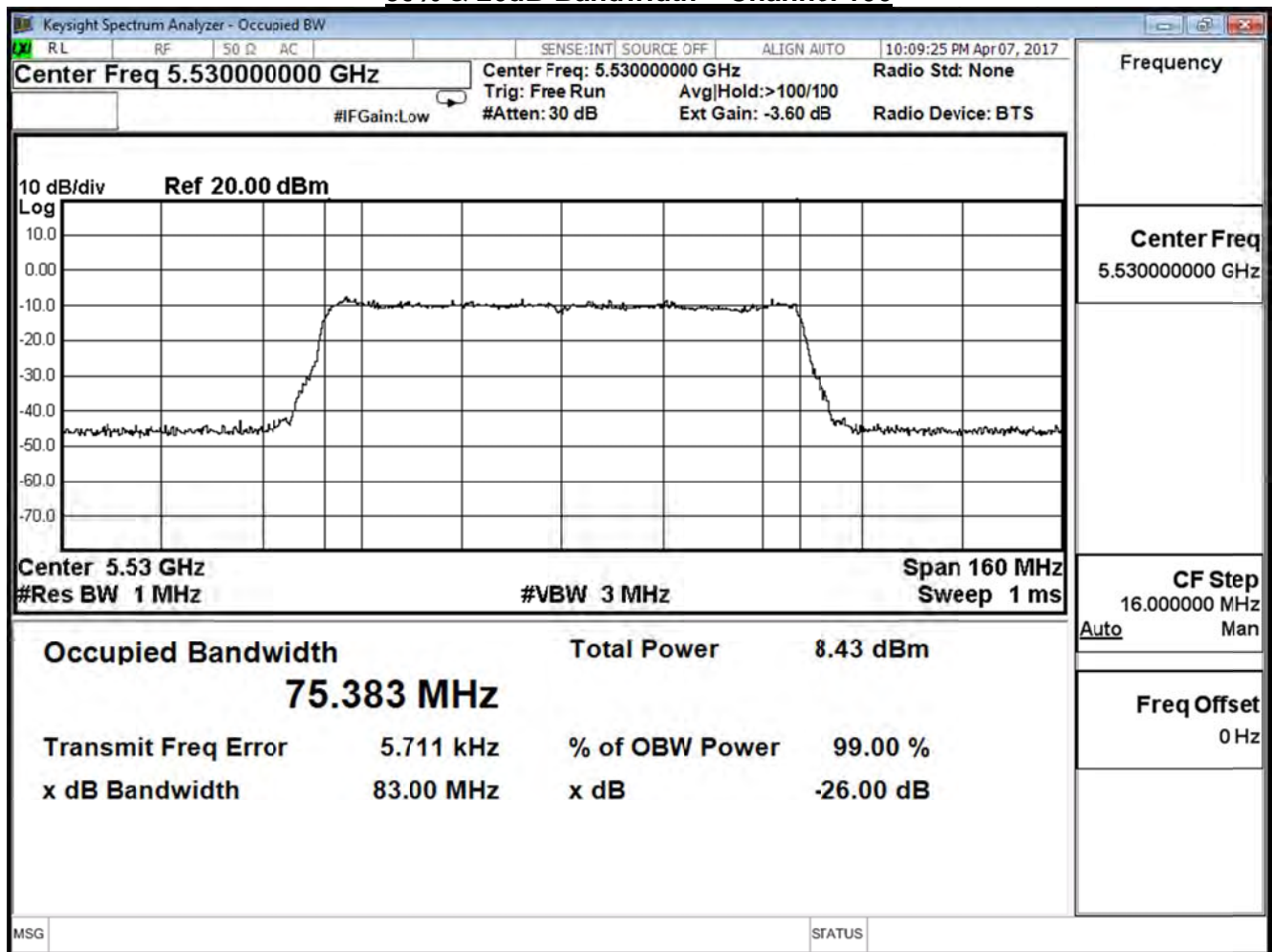
99% & 26dB Bandwidth – Channel 134



Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11 ac_80M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
106	5530	83.00	75.383	--	Pass

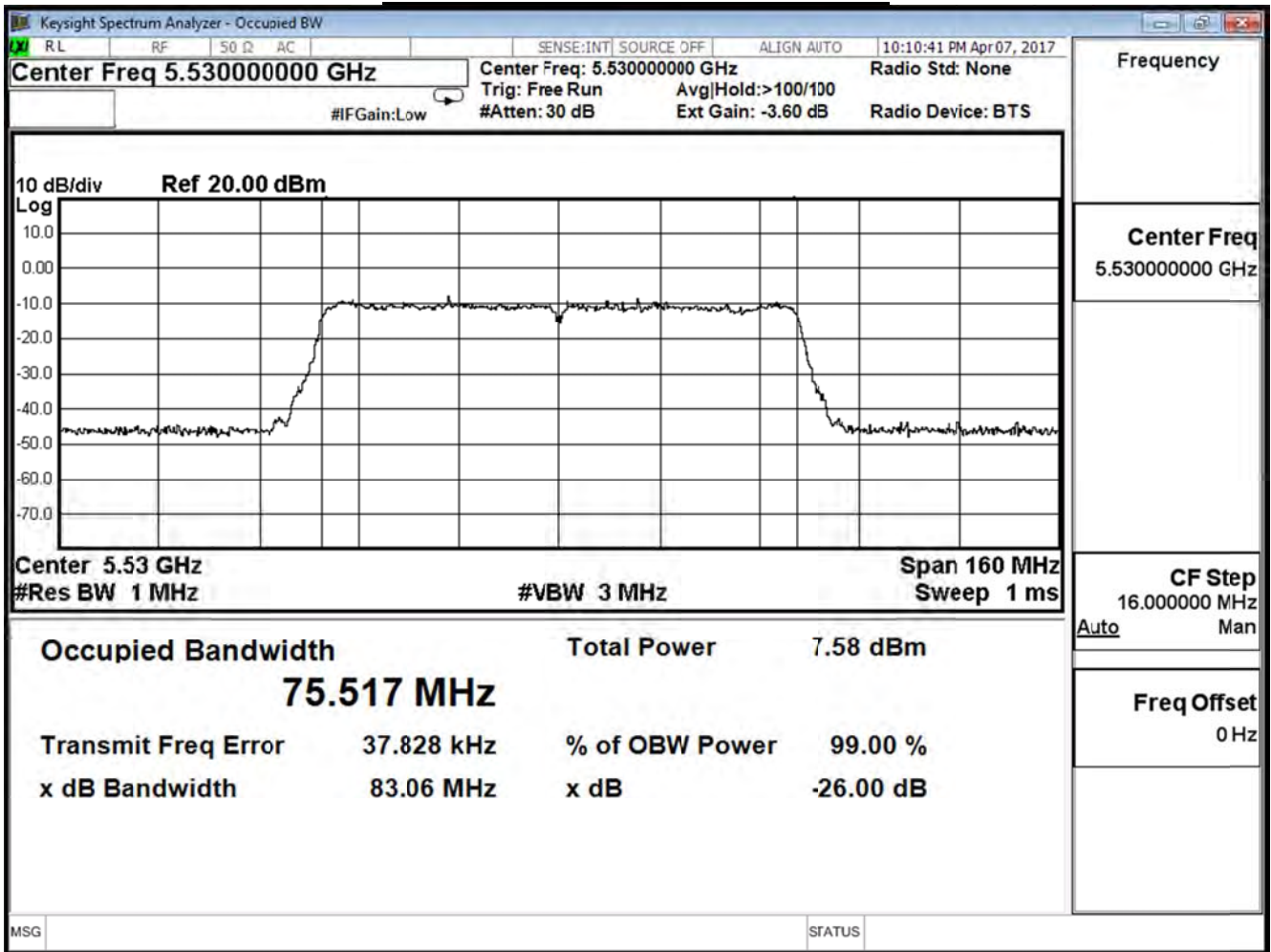
99% & 26dB Bandwidth – Channel 106



Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/03/06	Test Site	SR10-H

802.11 ac_80M (ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
106	5530	83.06	75.517	--	Pass

99% & 26dB Bandwidth – Channel 106

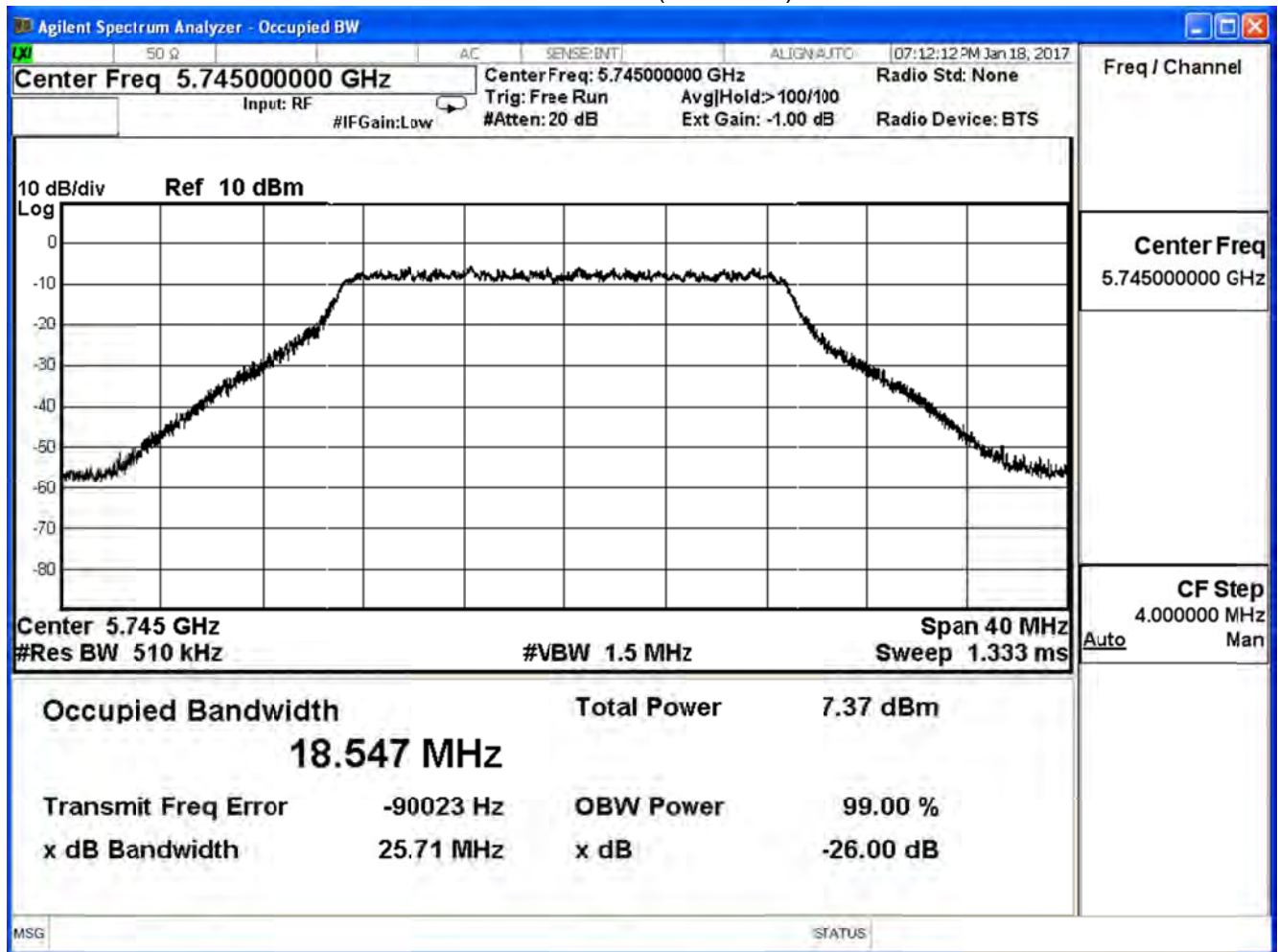


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

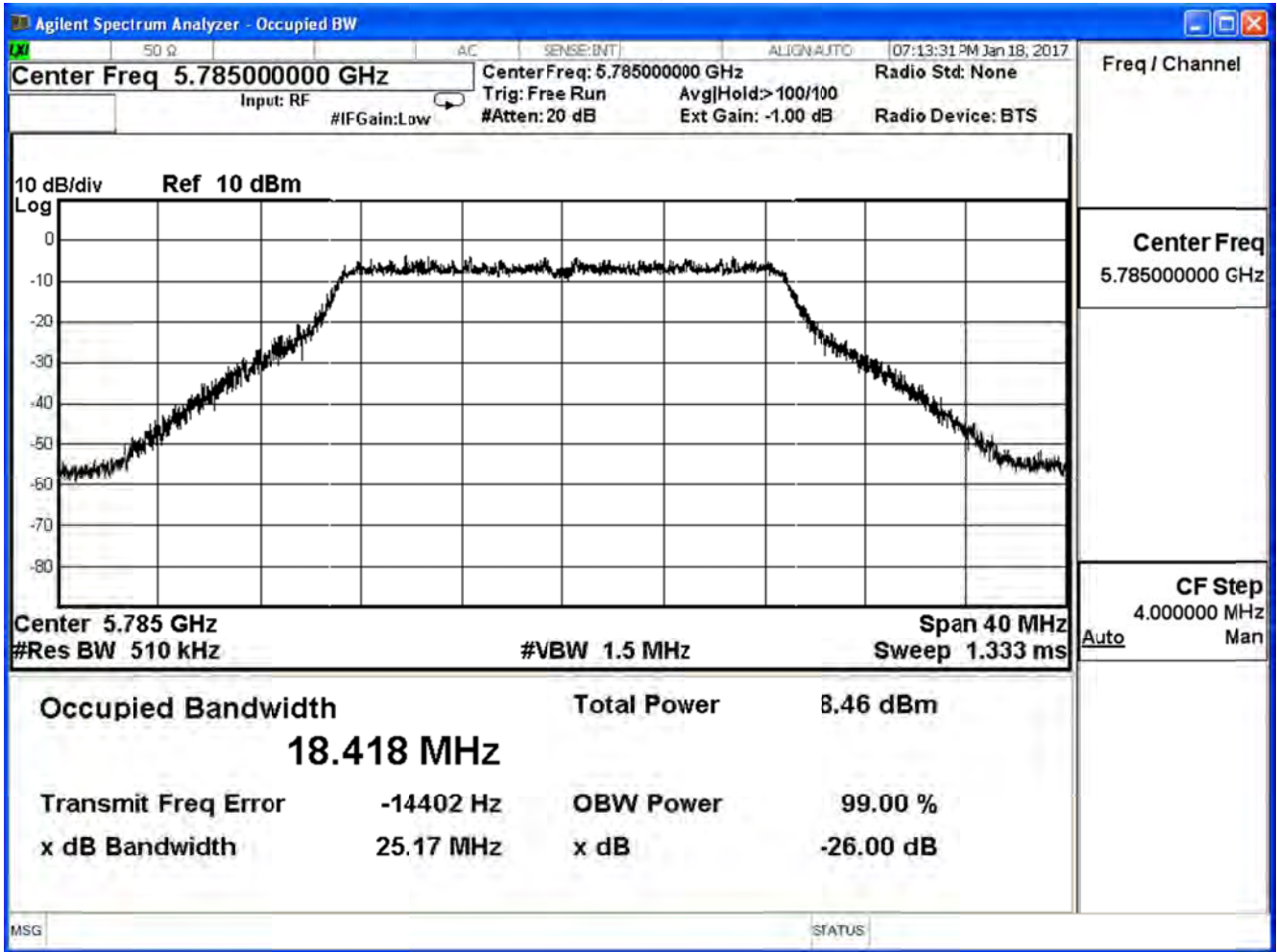
IEEE 802.11ac20 (ANT 0) (Gain 30.25dBi)

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	--

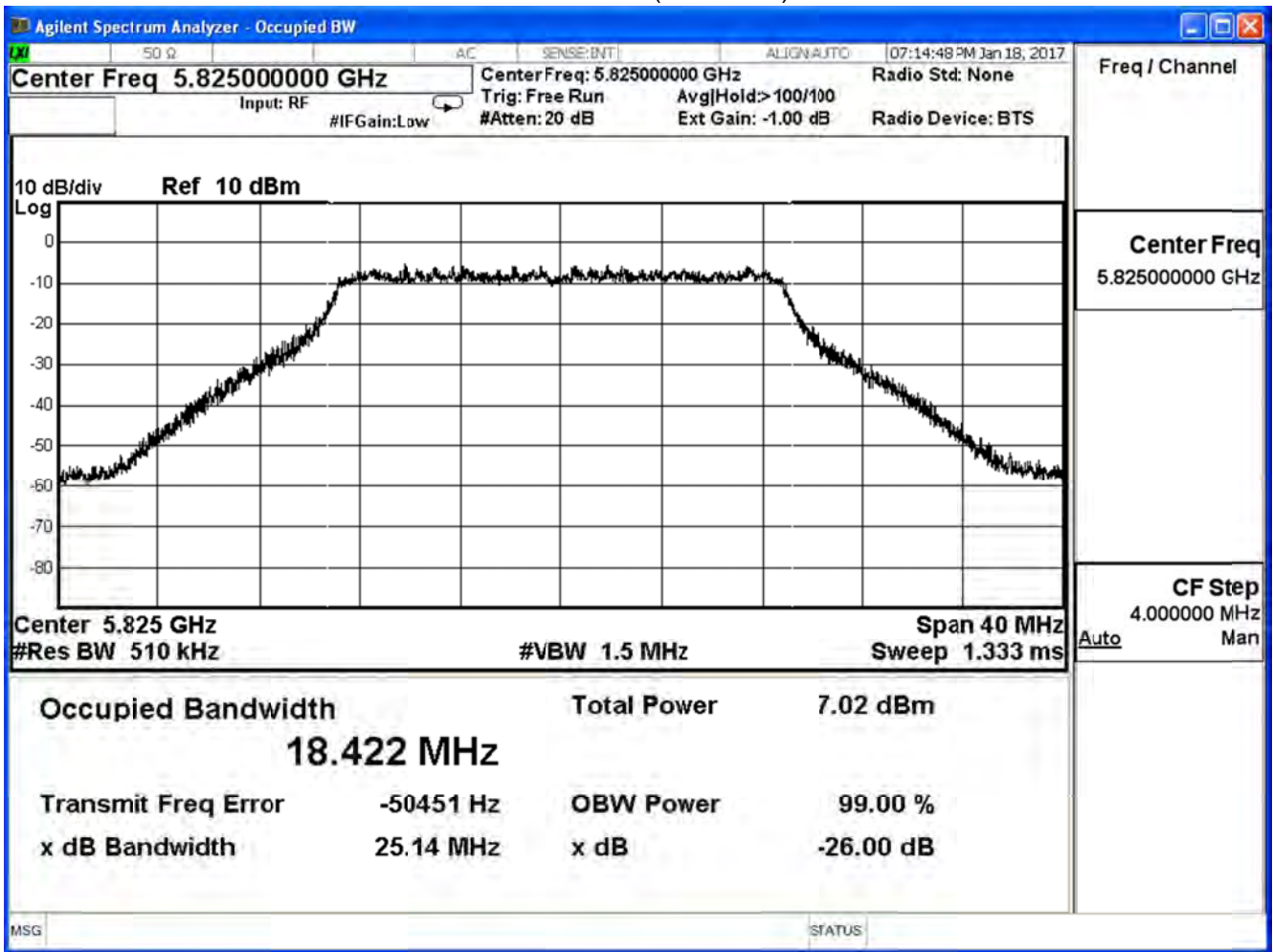
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

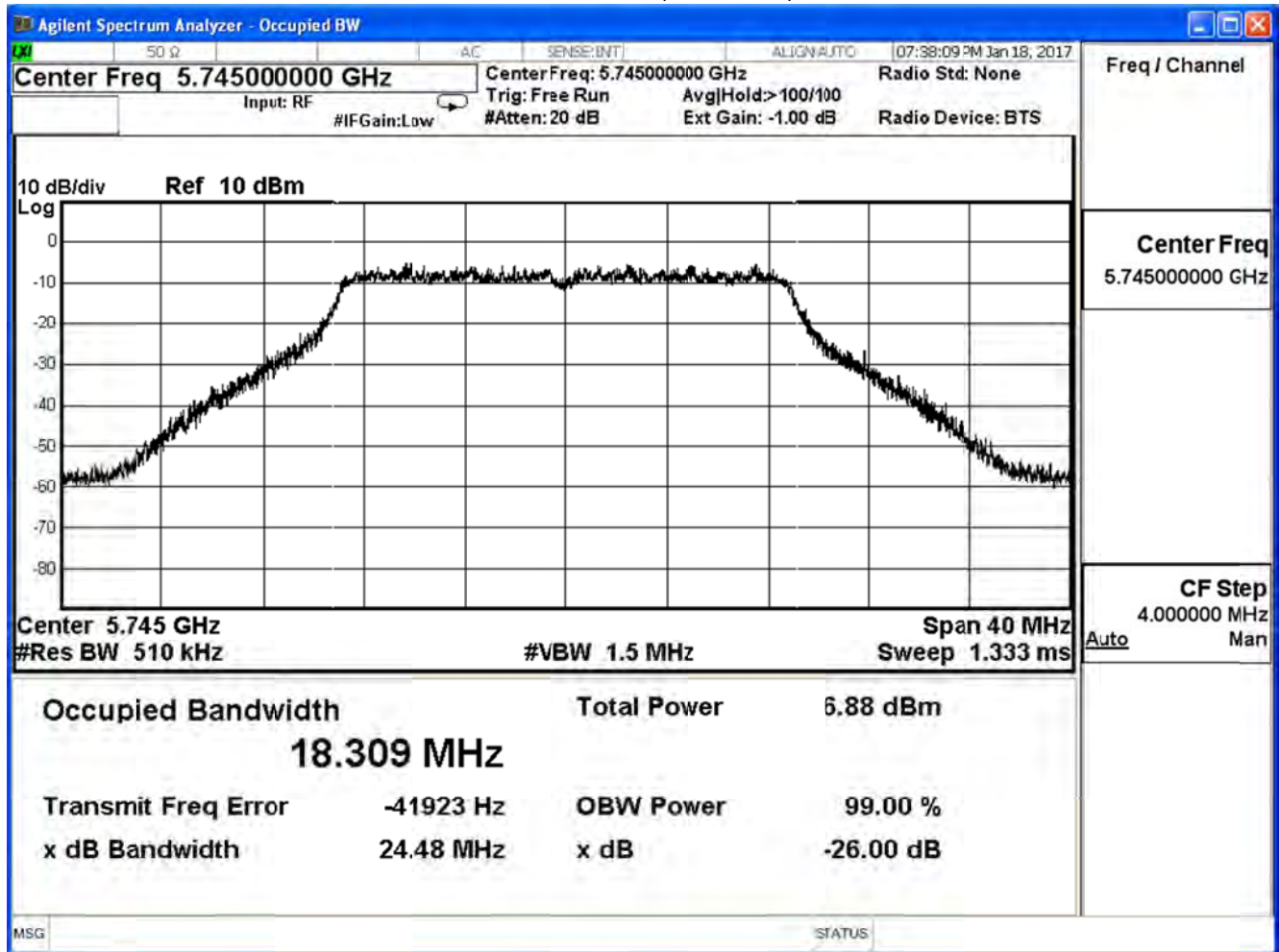


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

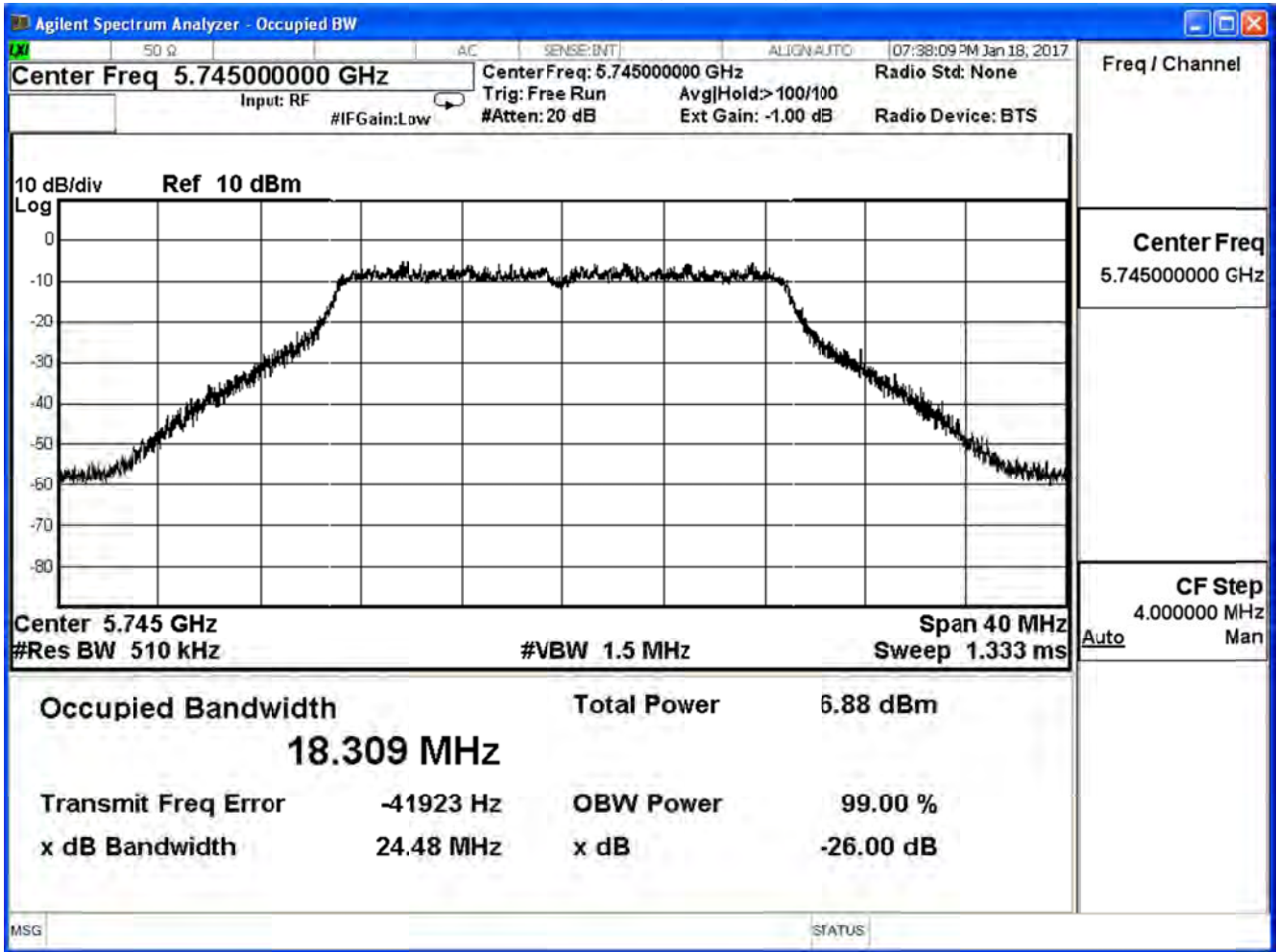
IEEE 802.11ac20 (ANT 1)

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	--

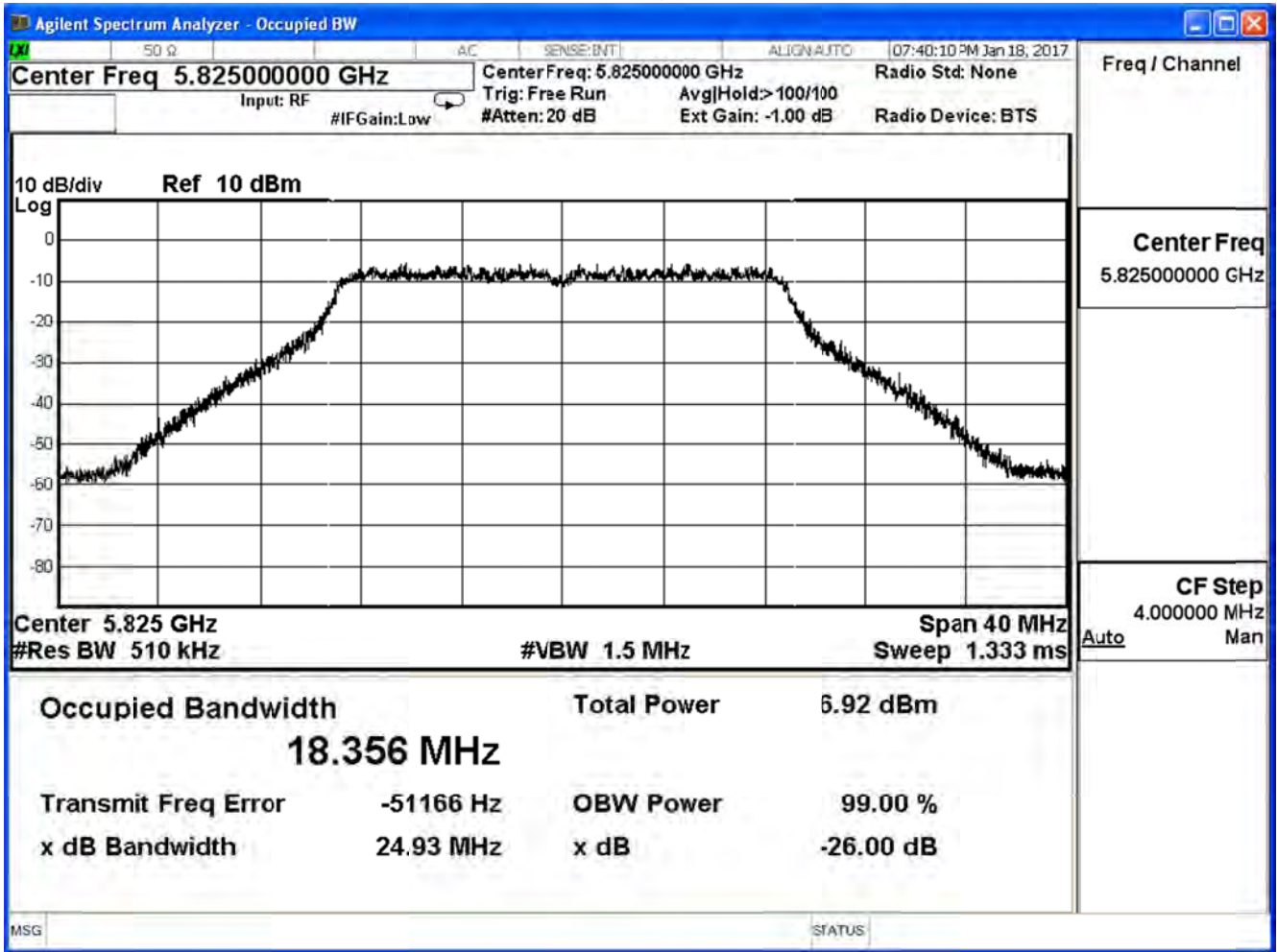
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

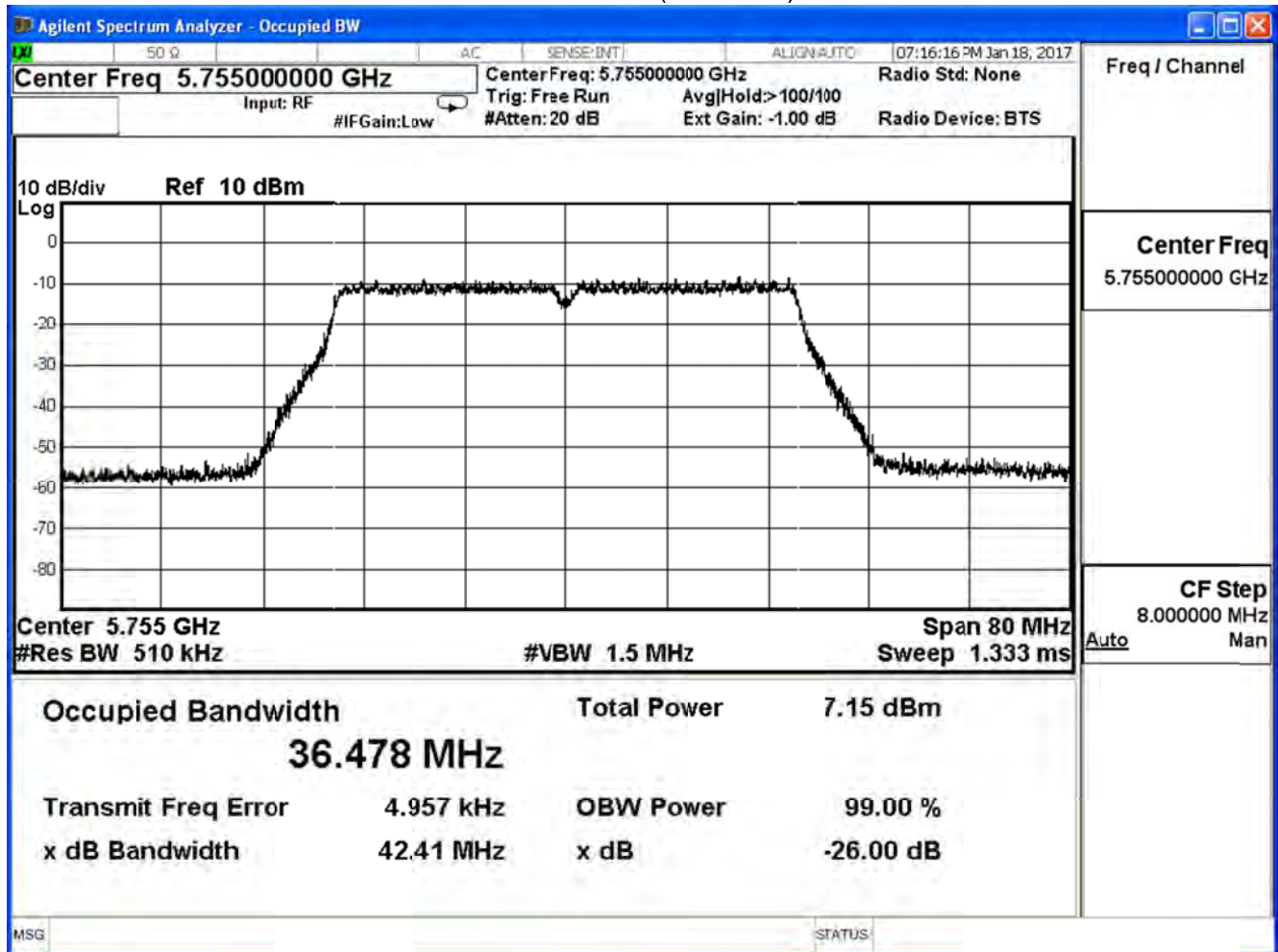


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

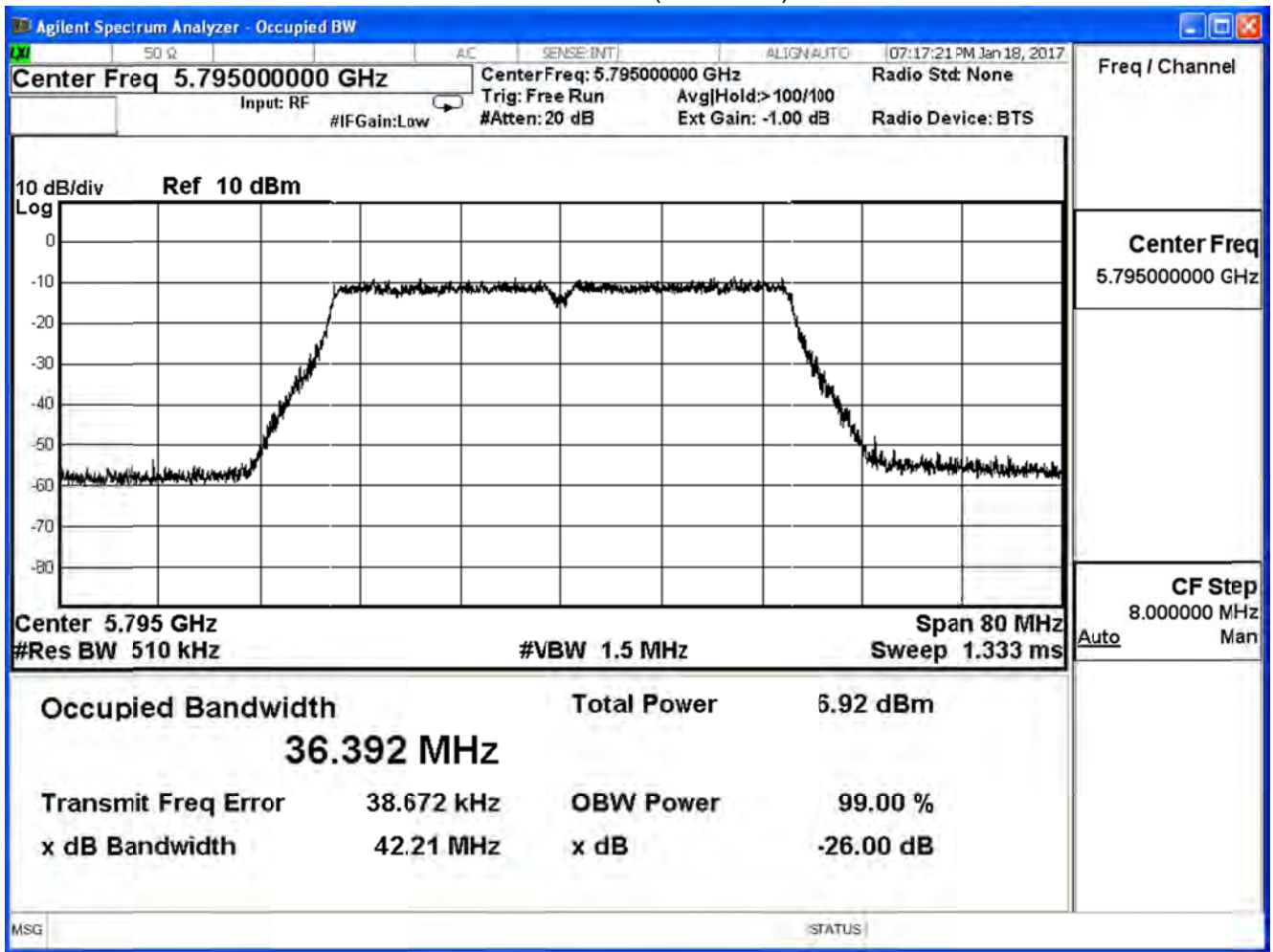
IEEE 802.11ac40 (ANT 0)

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)

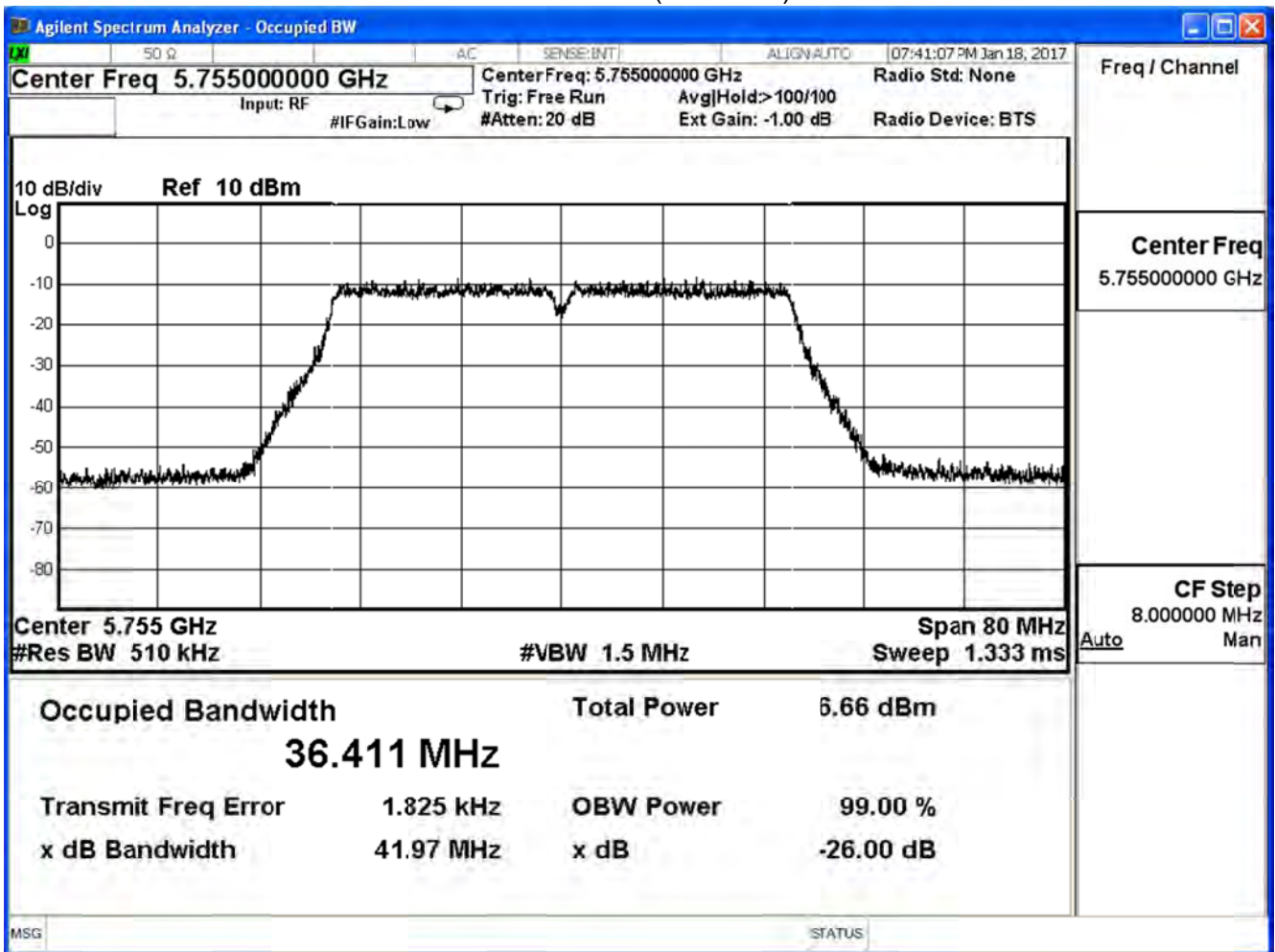


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

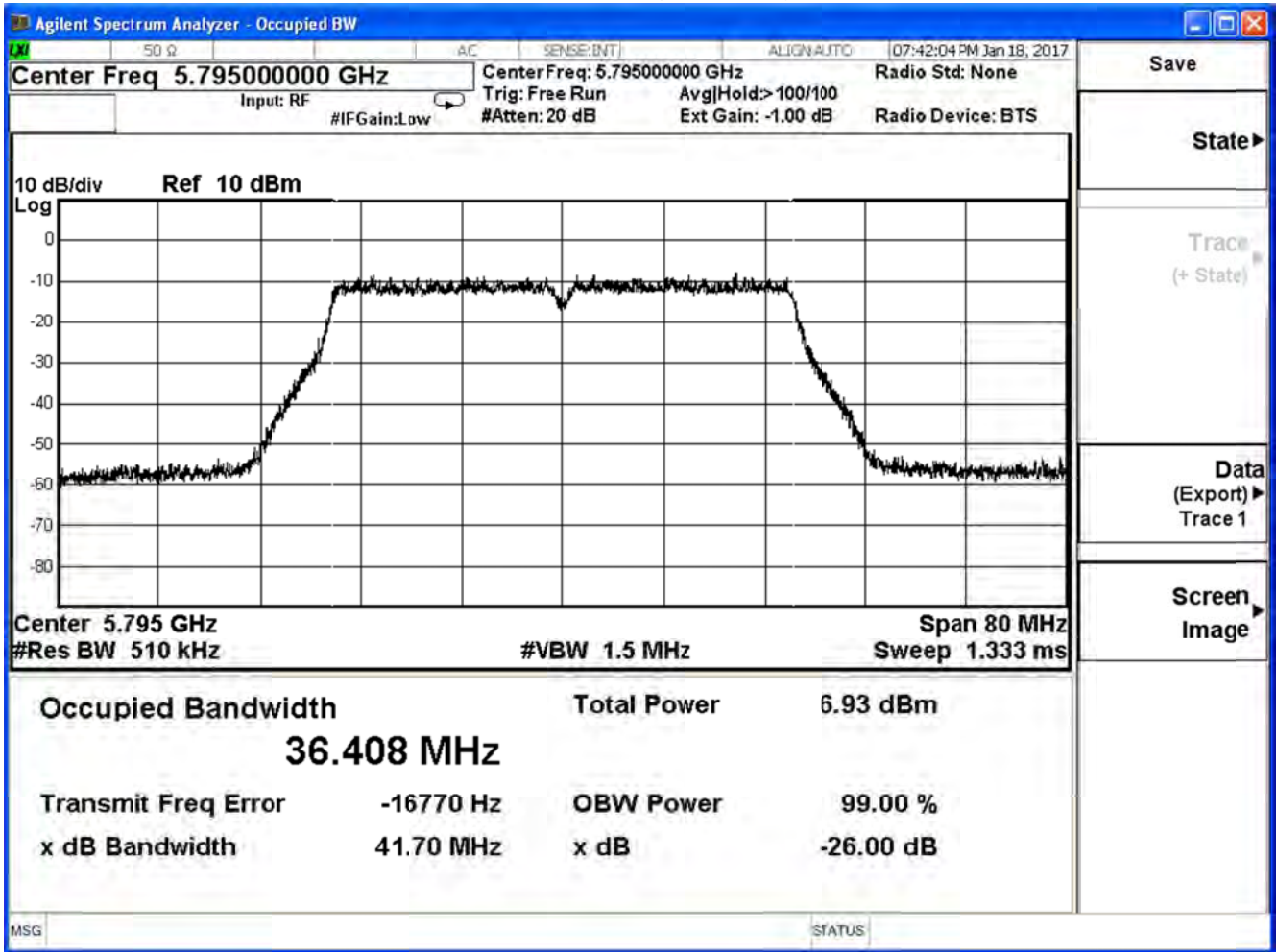
IEEE 802.11ac40 (ANT 1)

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)

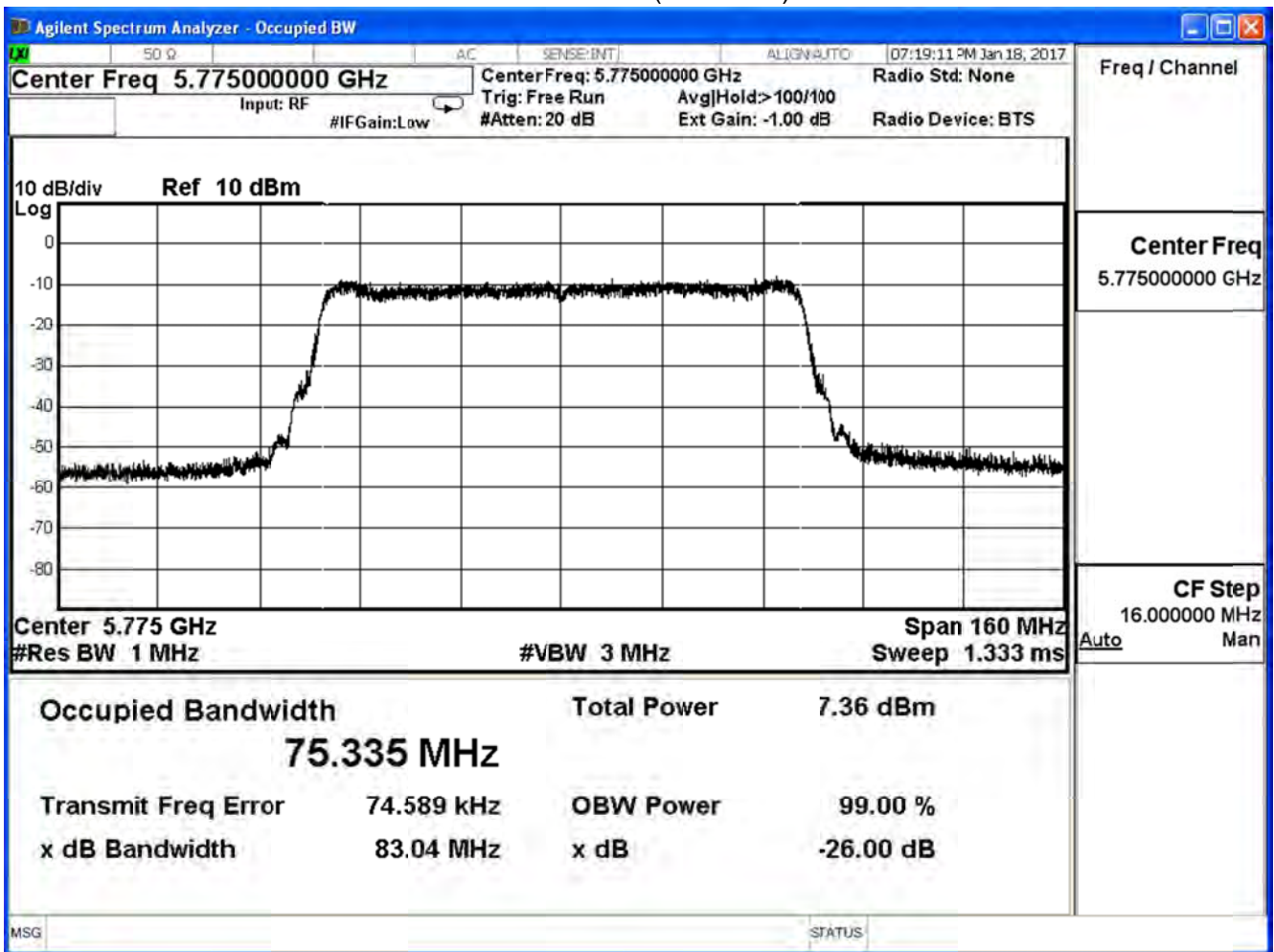


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

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)

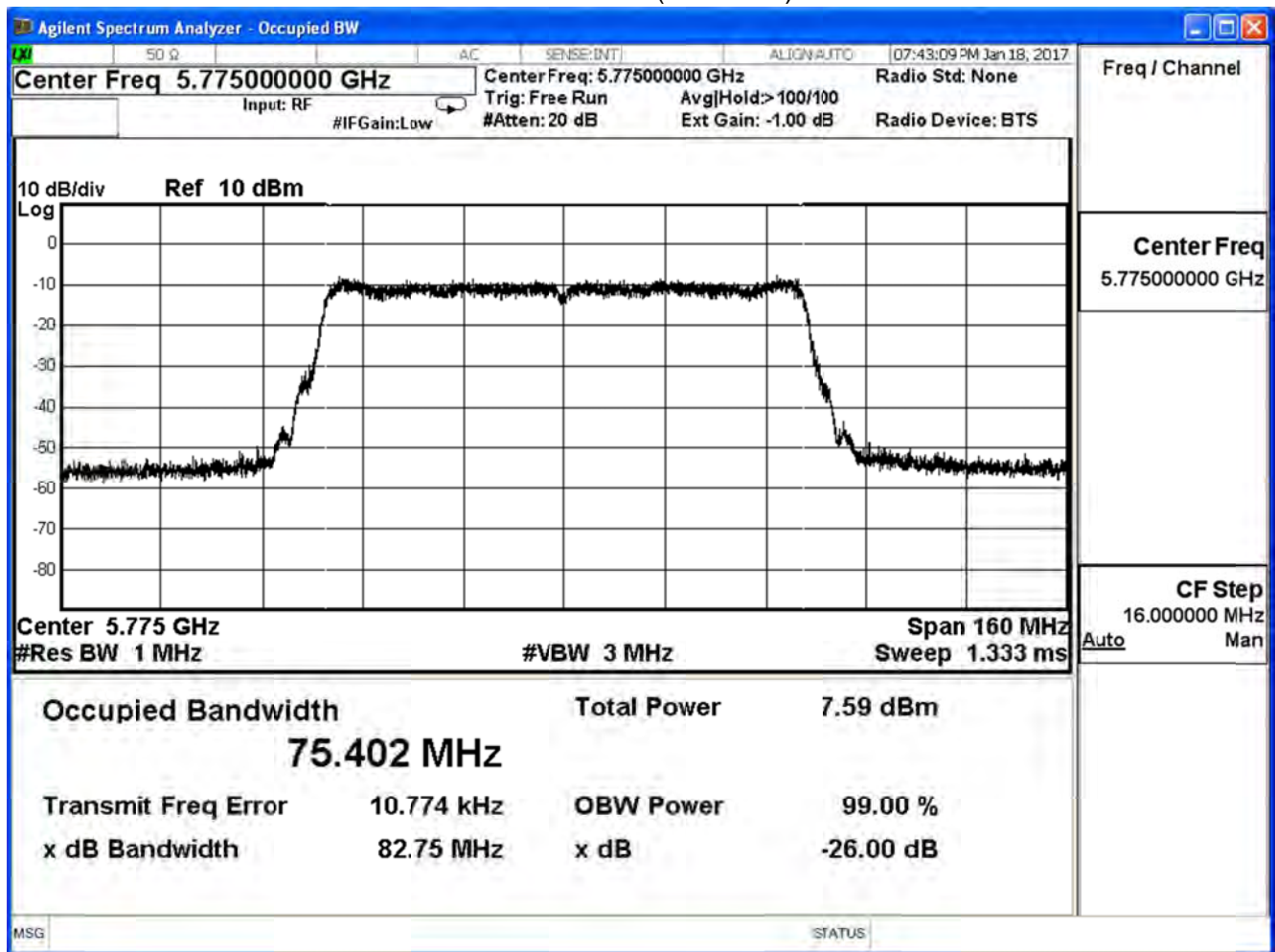


Product	Mimosa C5c		
Test Item	99% Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/01/18	Test Site	SR10-H

IEEE 802.11ac80 (ANT 1)

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

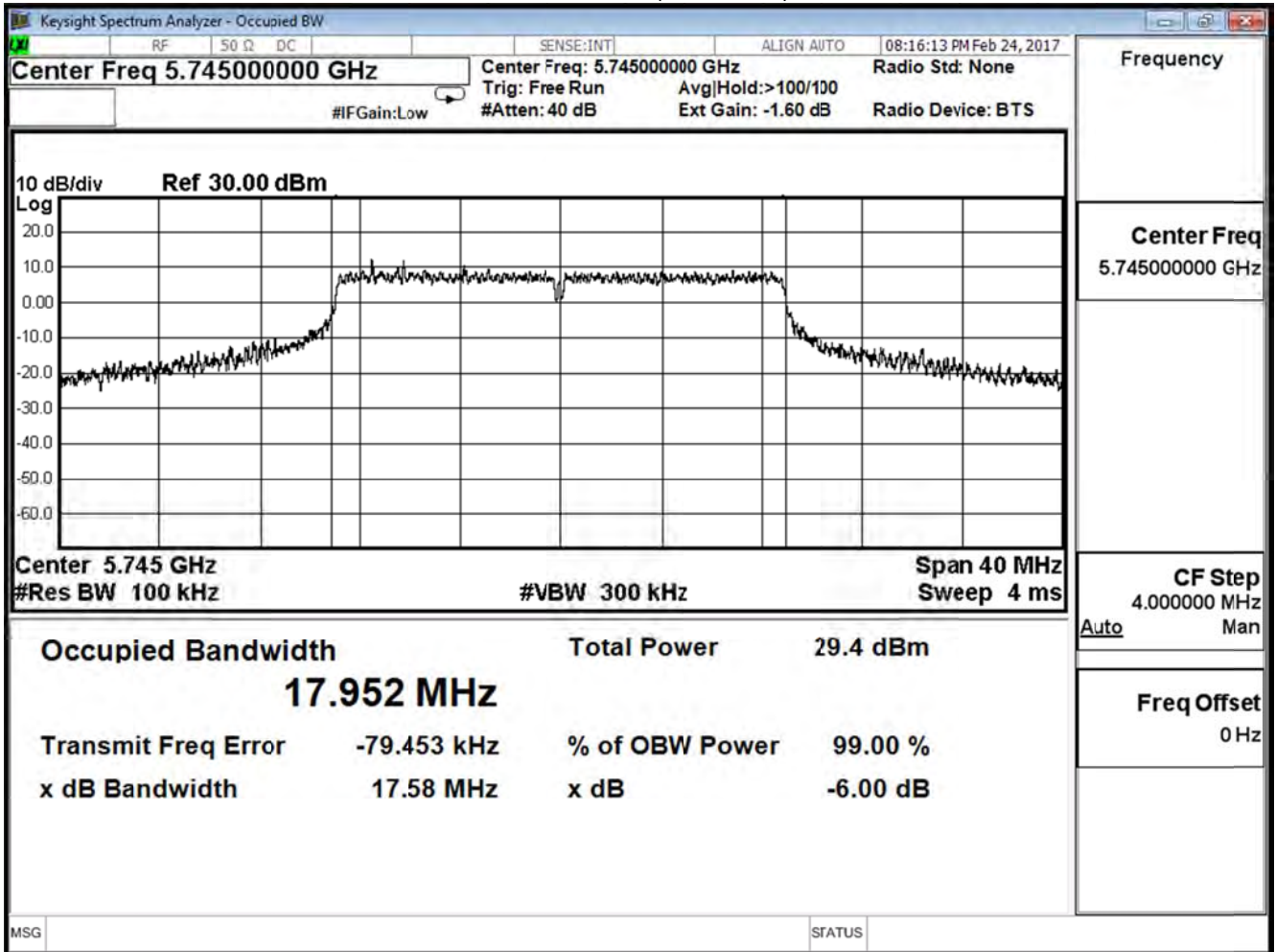
Channel 155 (5775MHz)



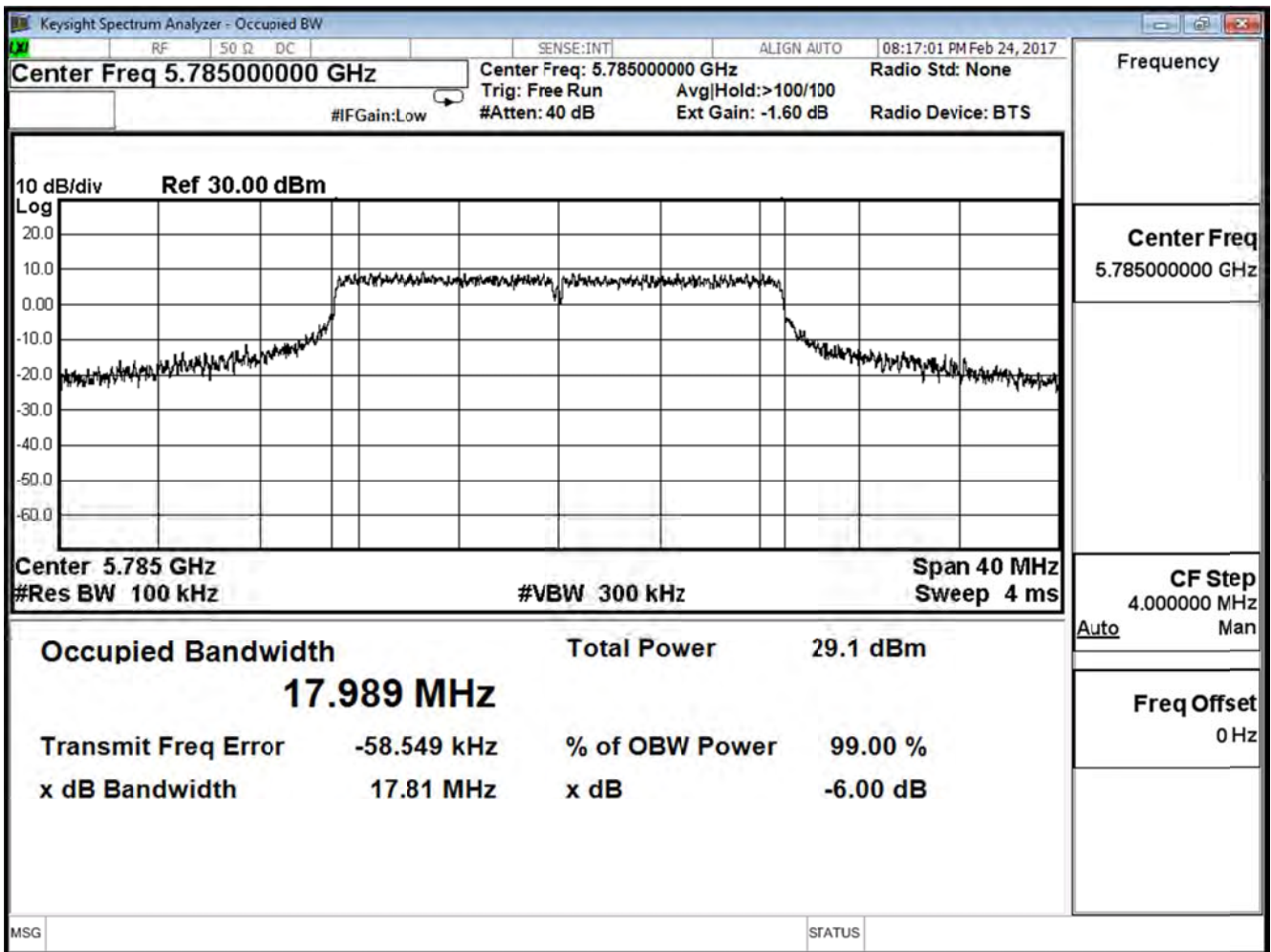
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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

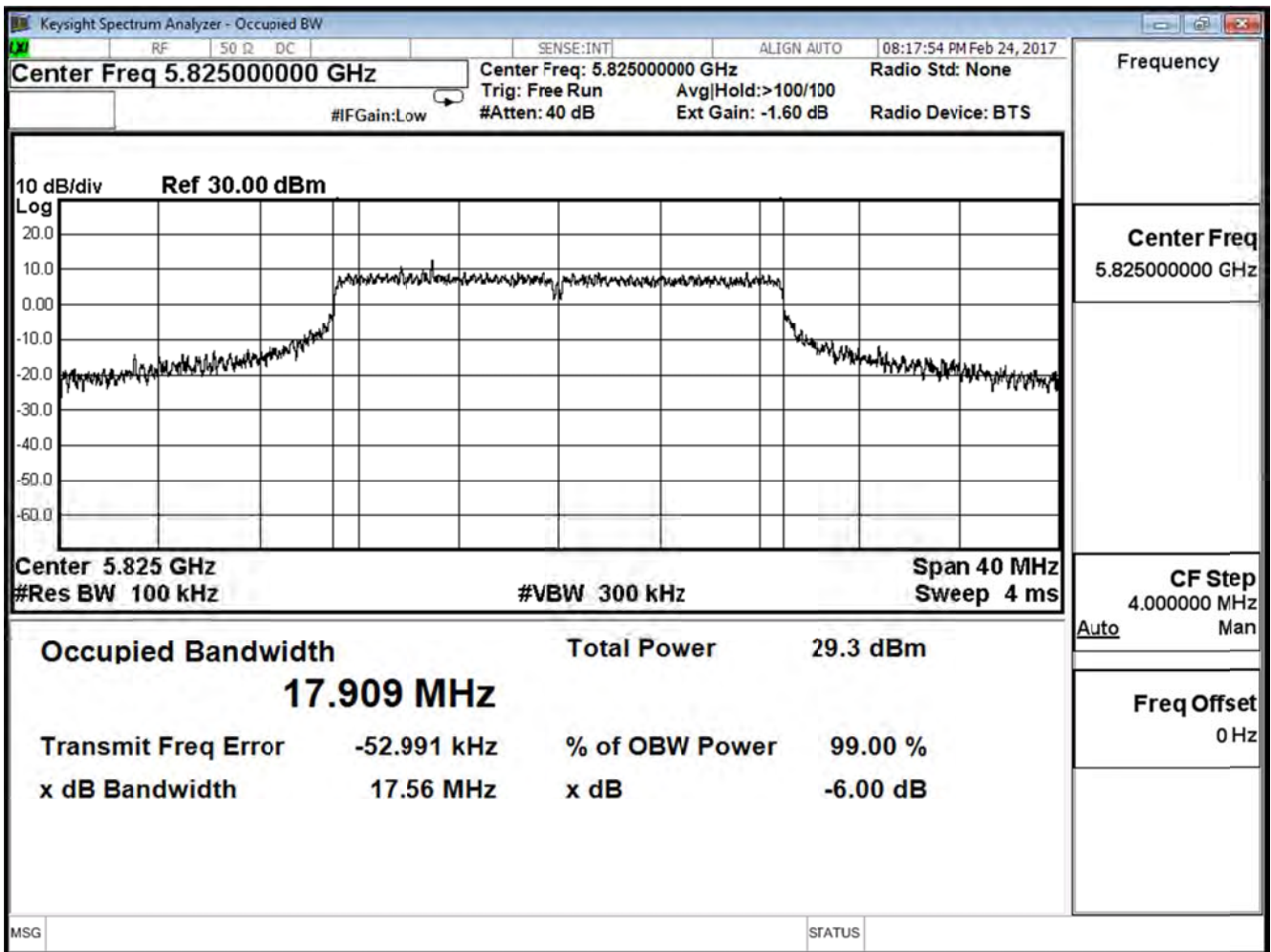
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

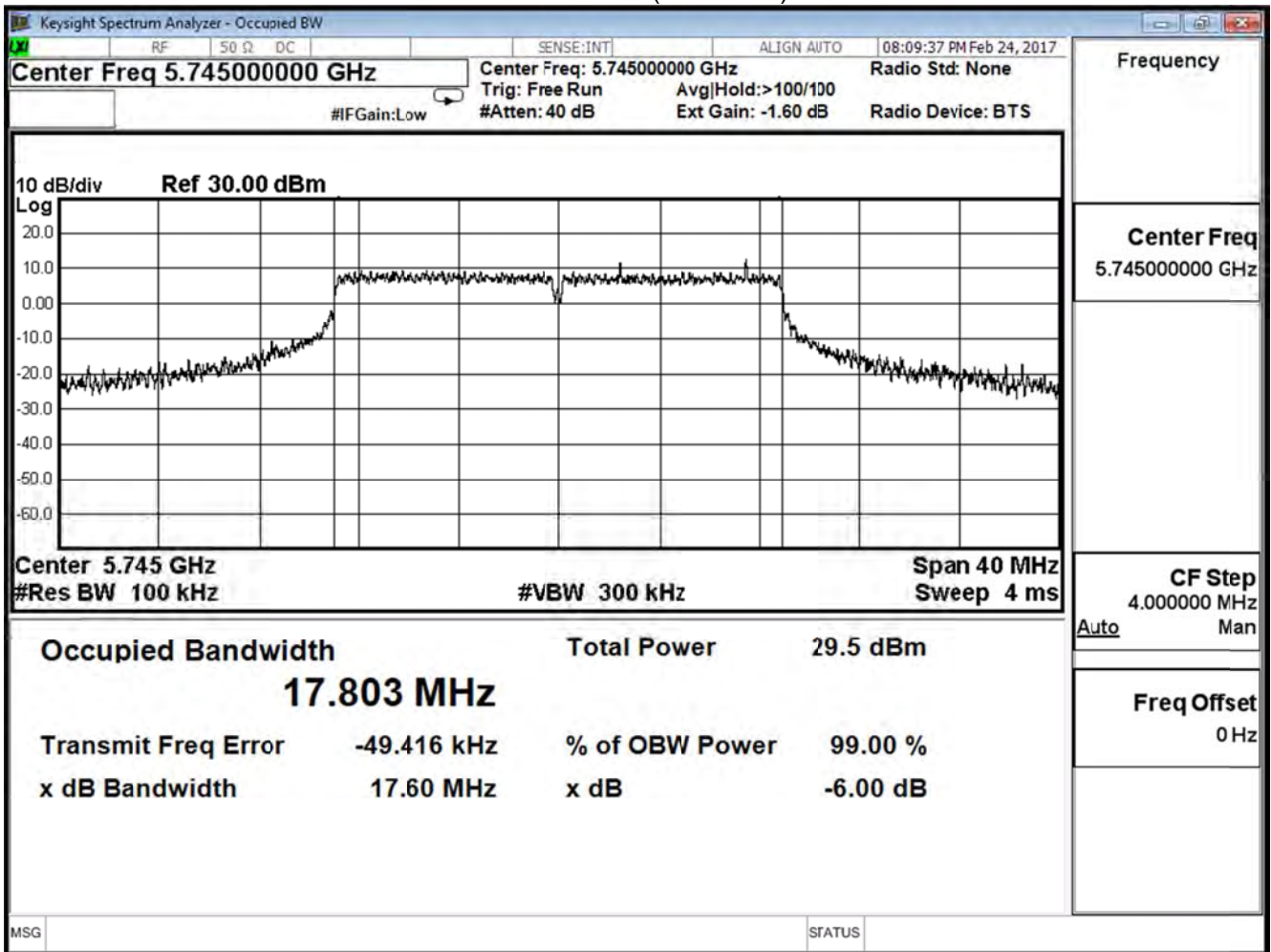


Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

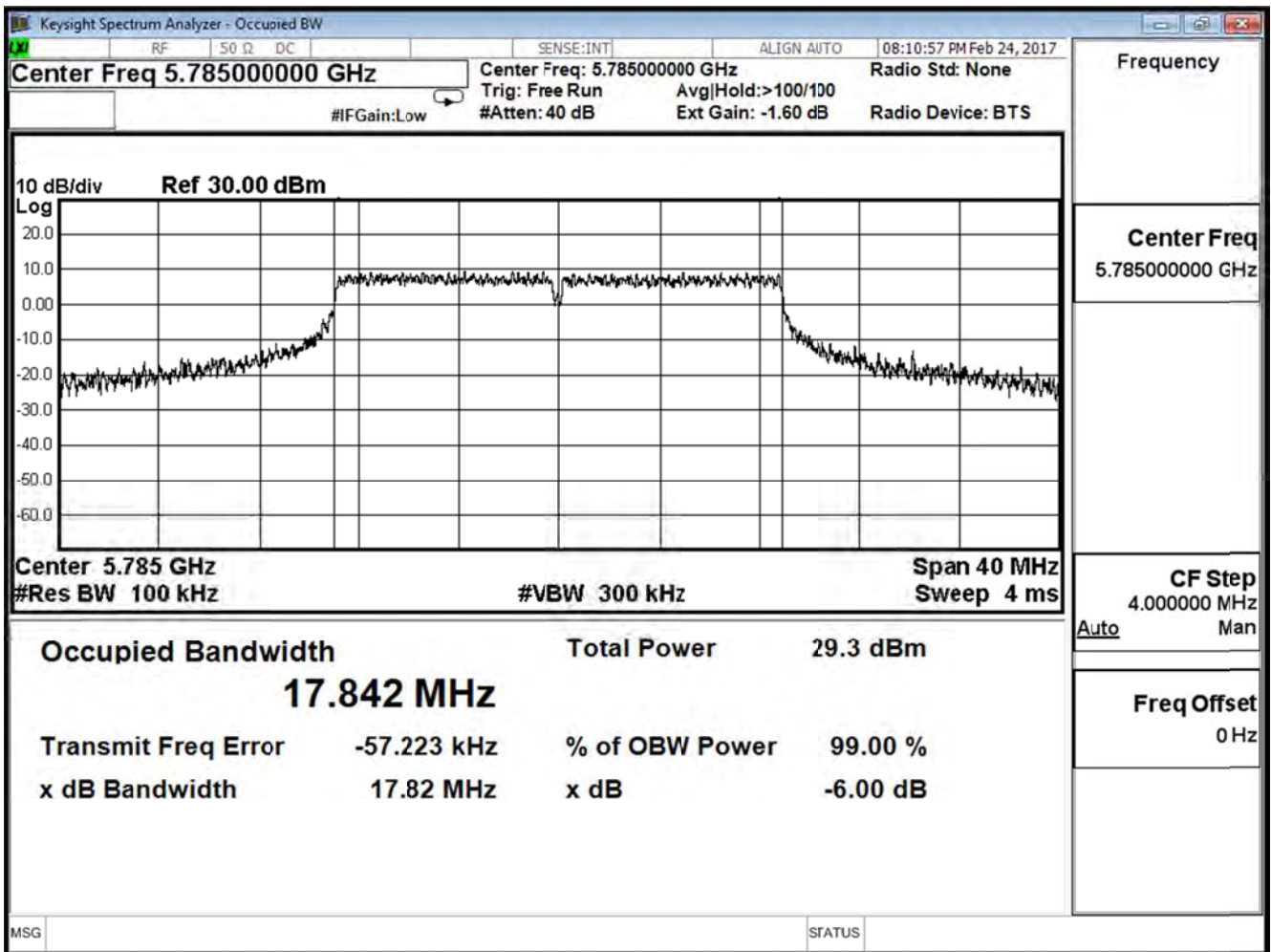
IEEE 802.11ac20 (ANT 1)

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

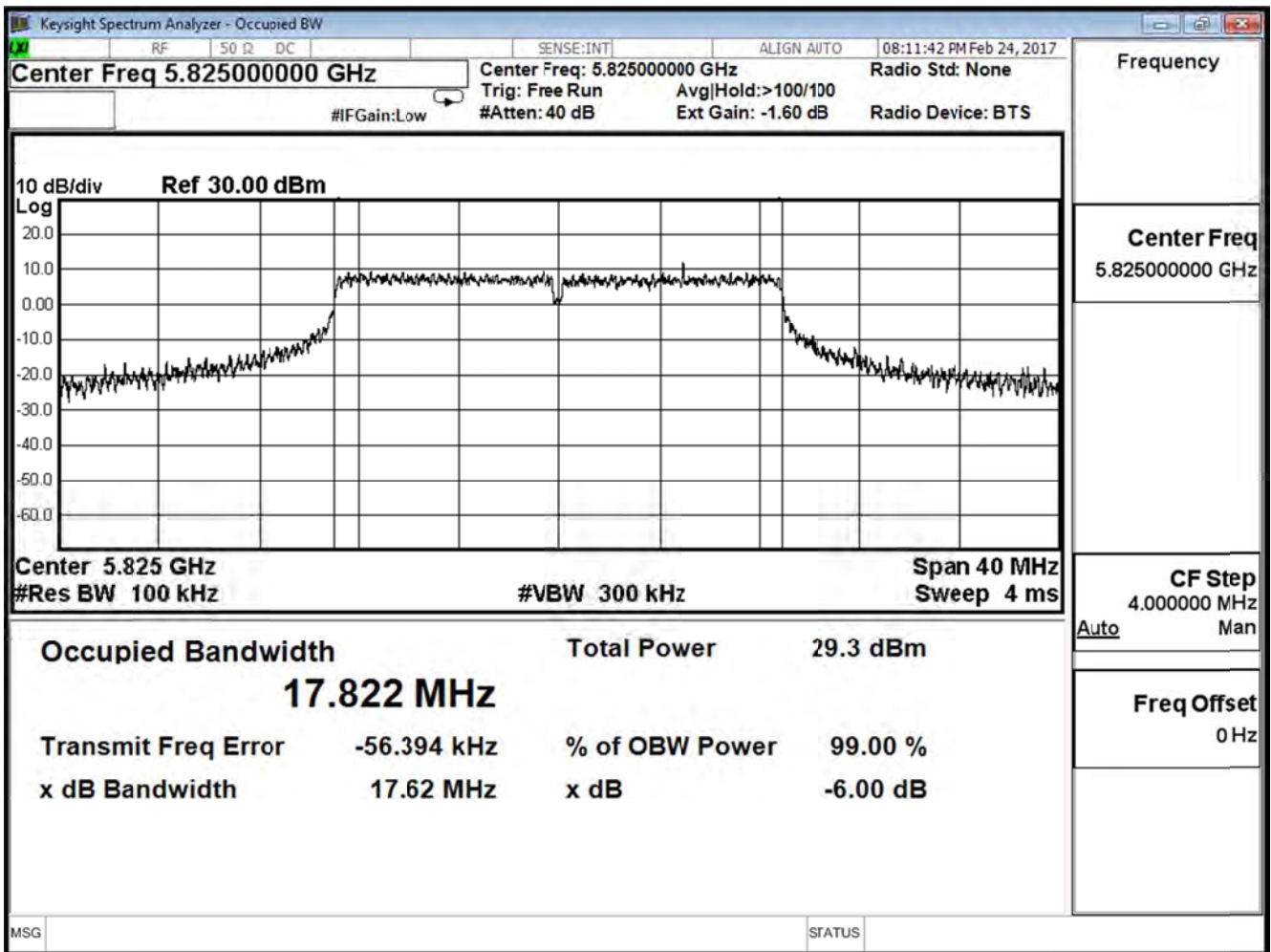
Channel 149 (5745MHz)



Channel 157 (5785MHz)



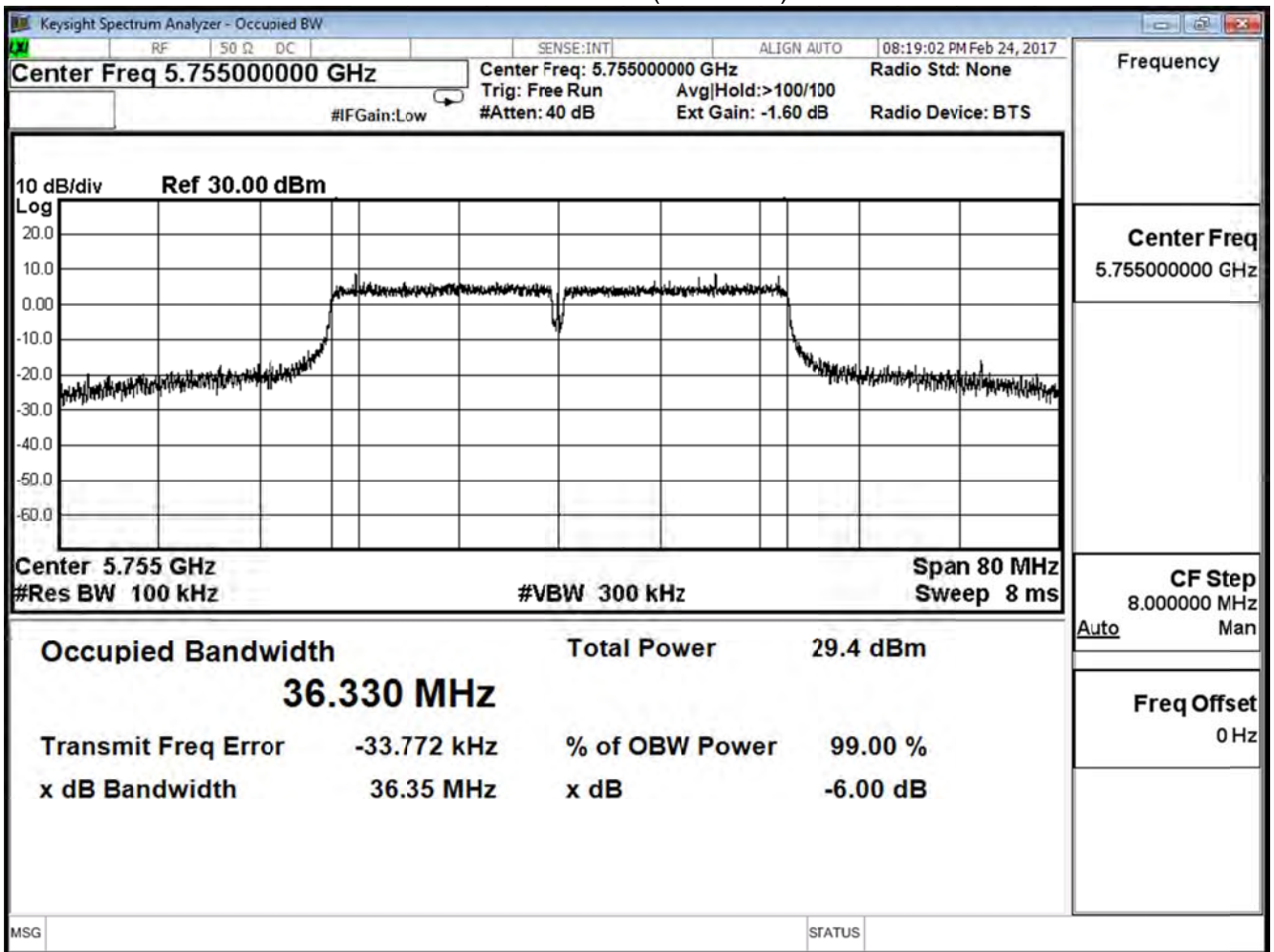
Channel 165 (5825MHz)



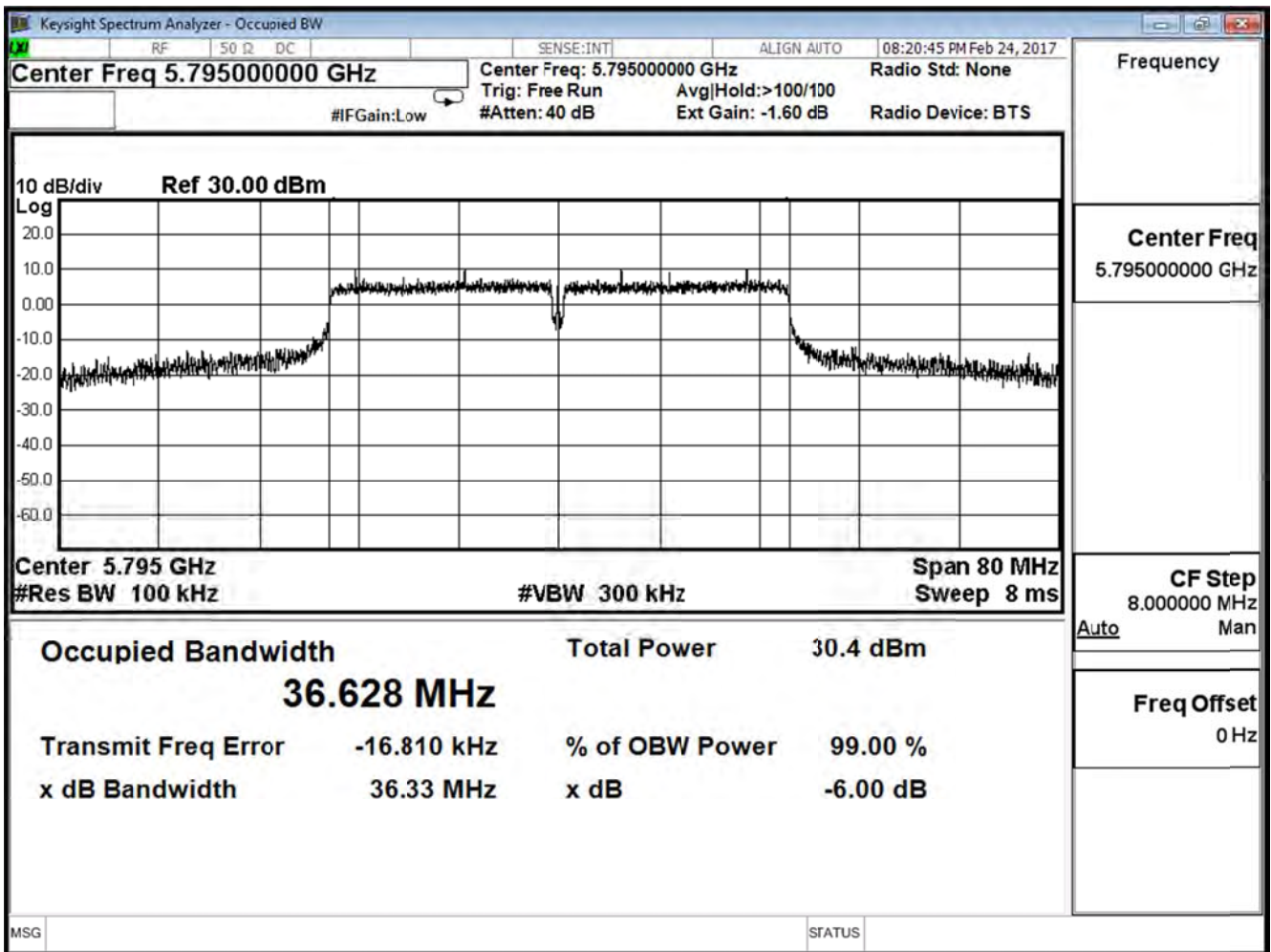
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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)



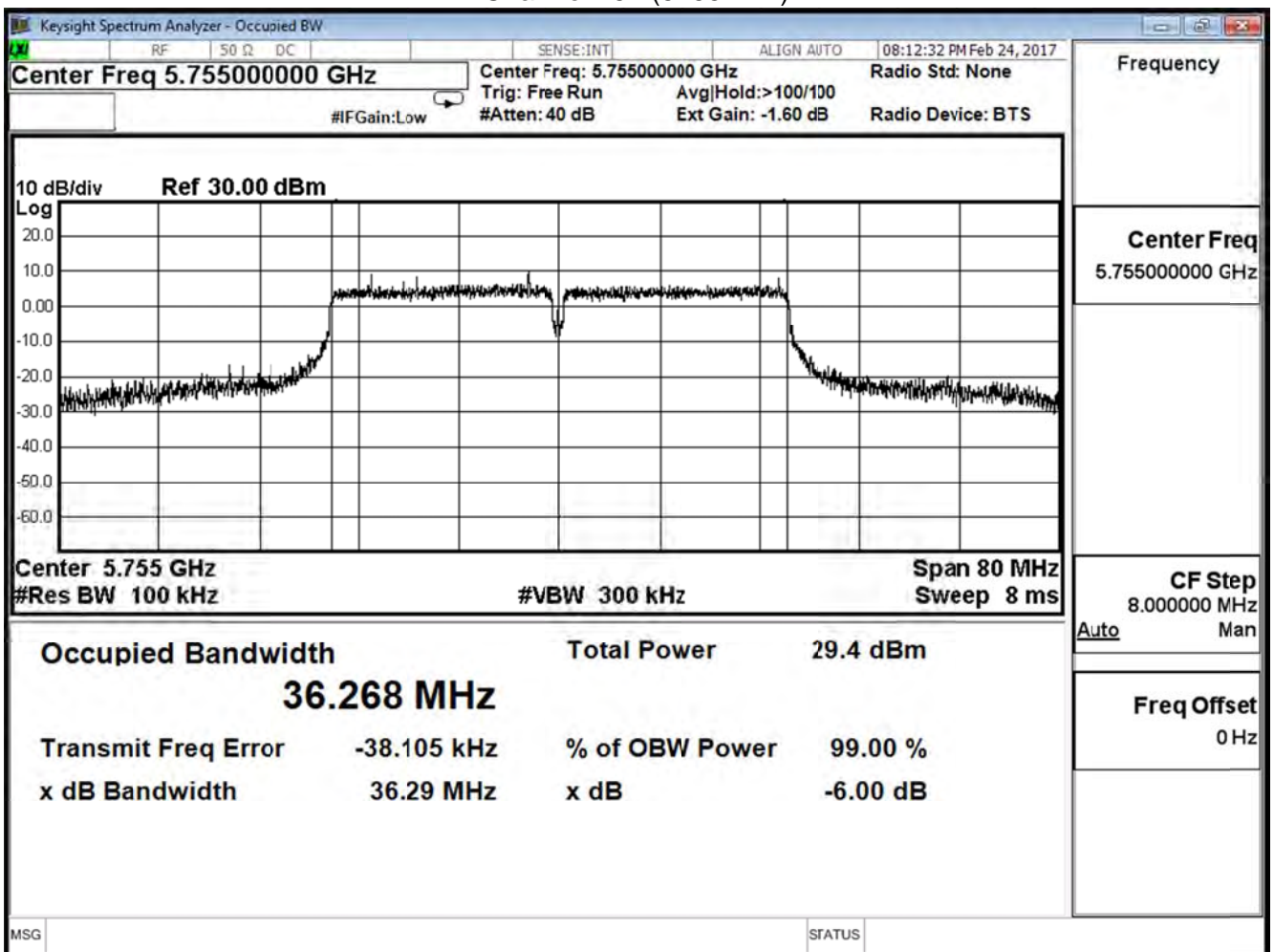
Channel 159 (5795MHz)



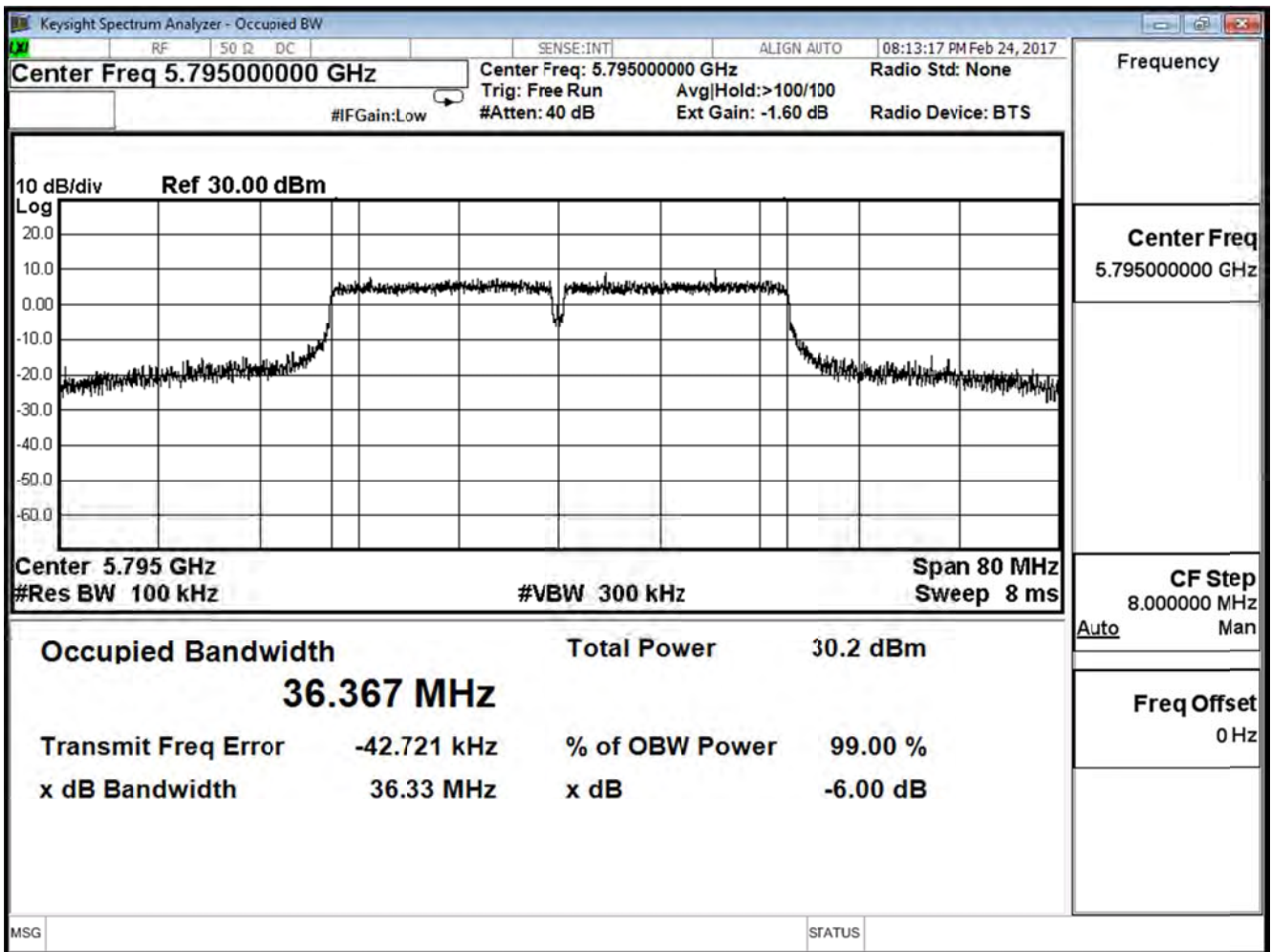
Product	Mimosa C5c		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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)



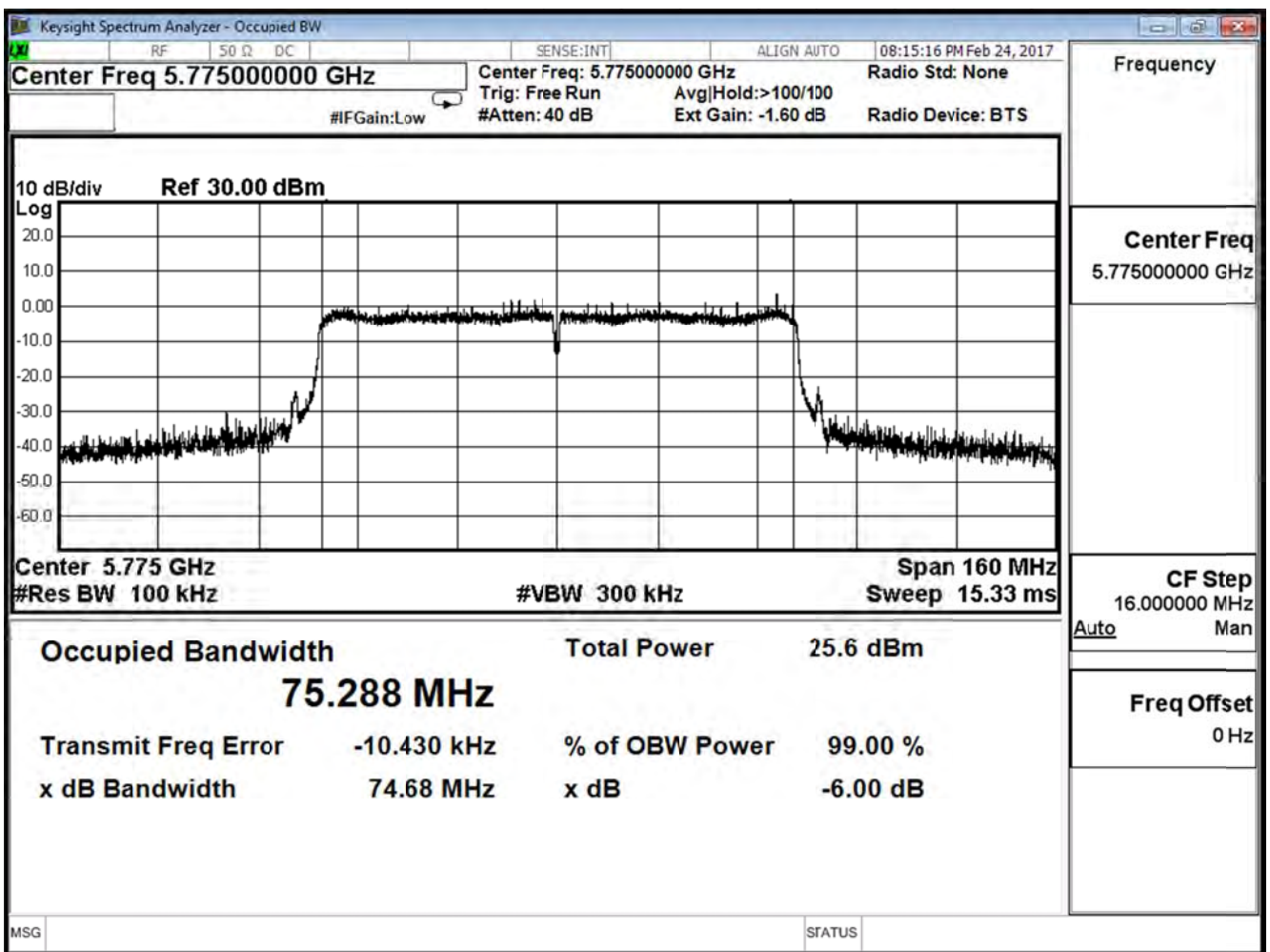
Channel 159 (5795MHz)



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

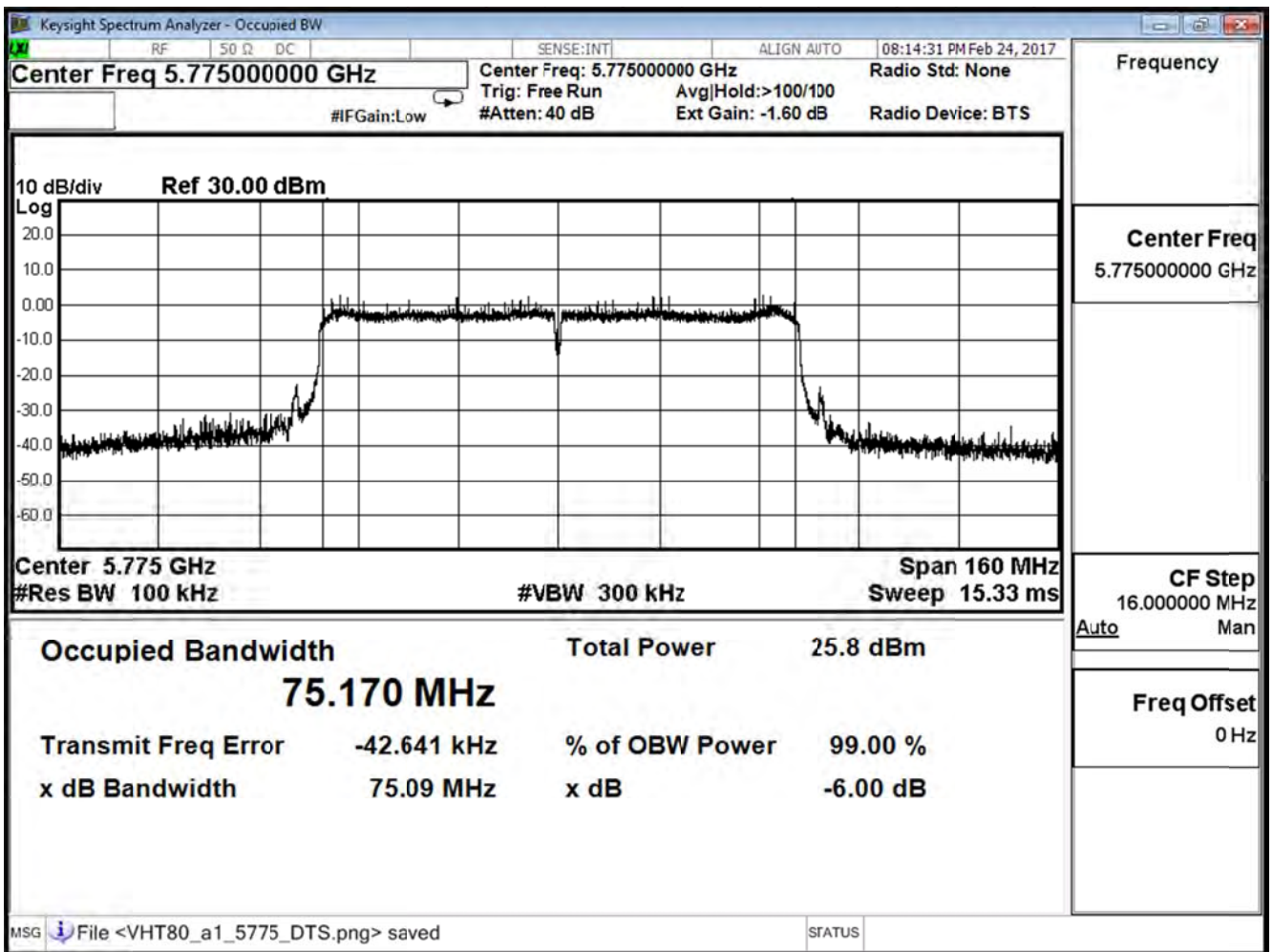
Channel 155 (5775MHz)



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

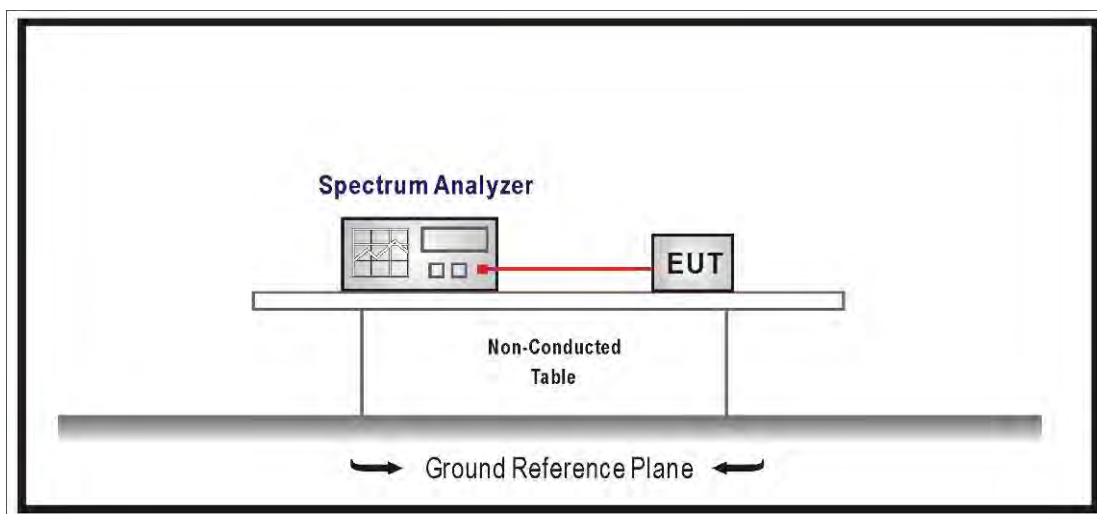
The following test equipments are used during the radiated emission tests:

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

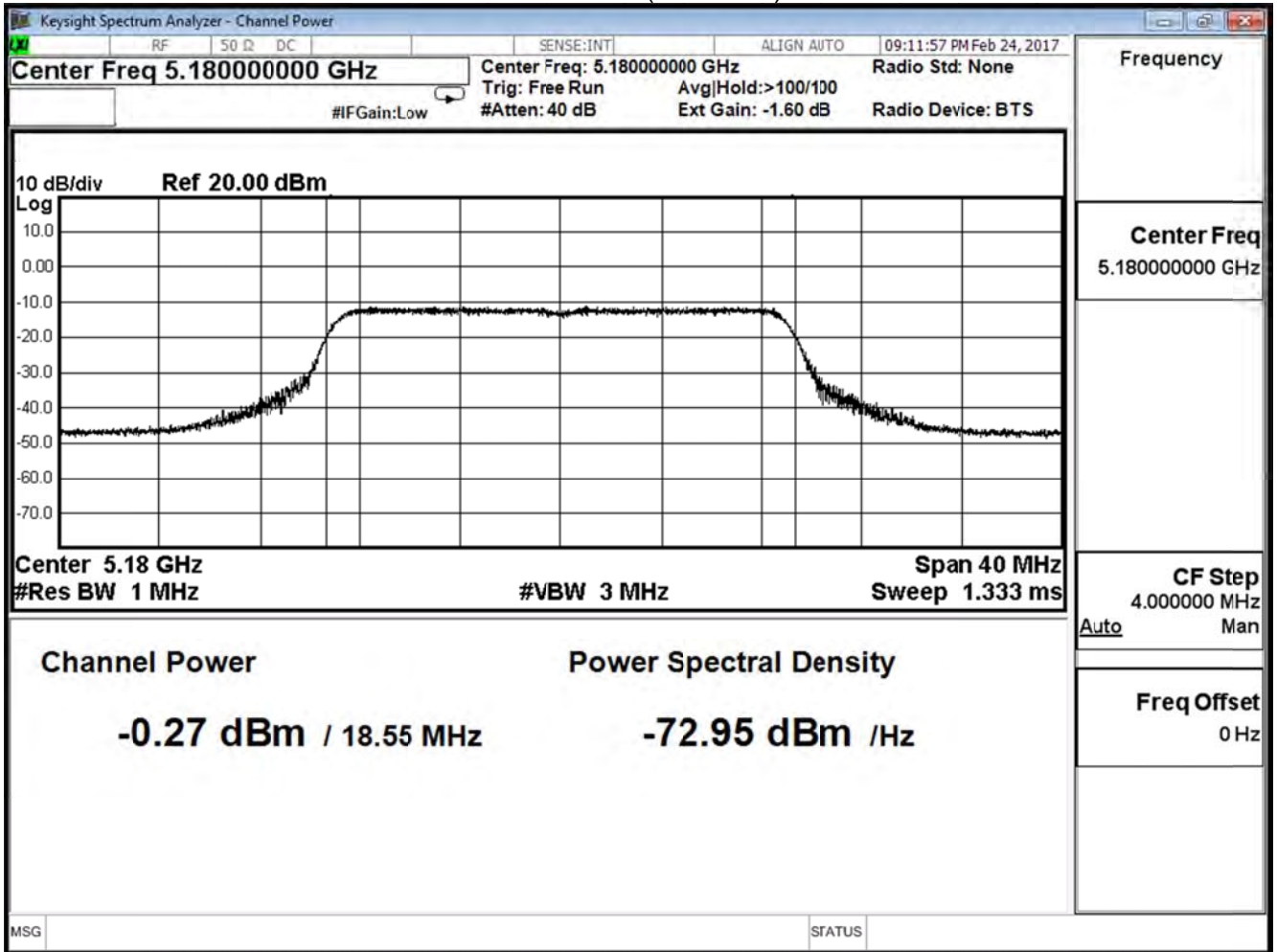
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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

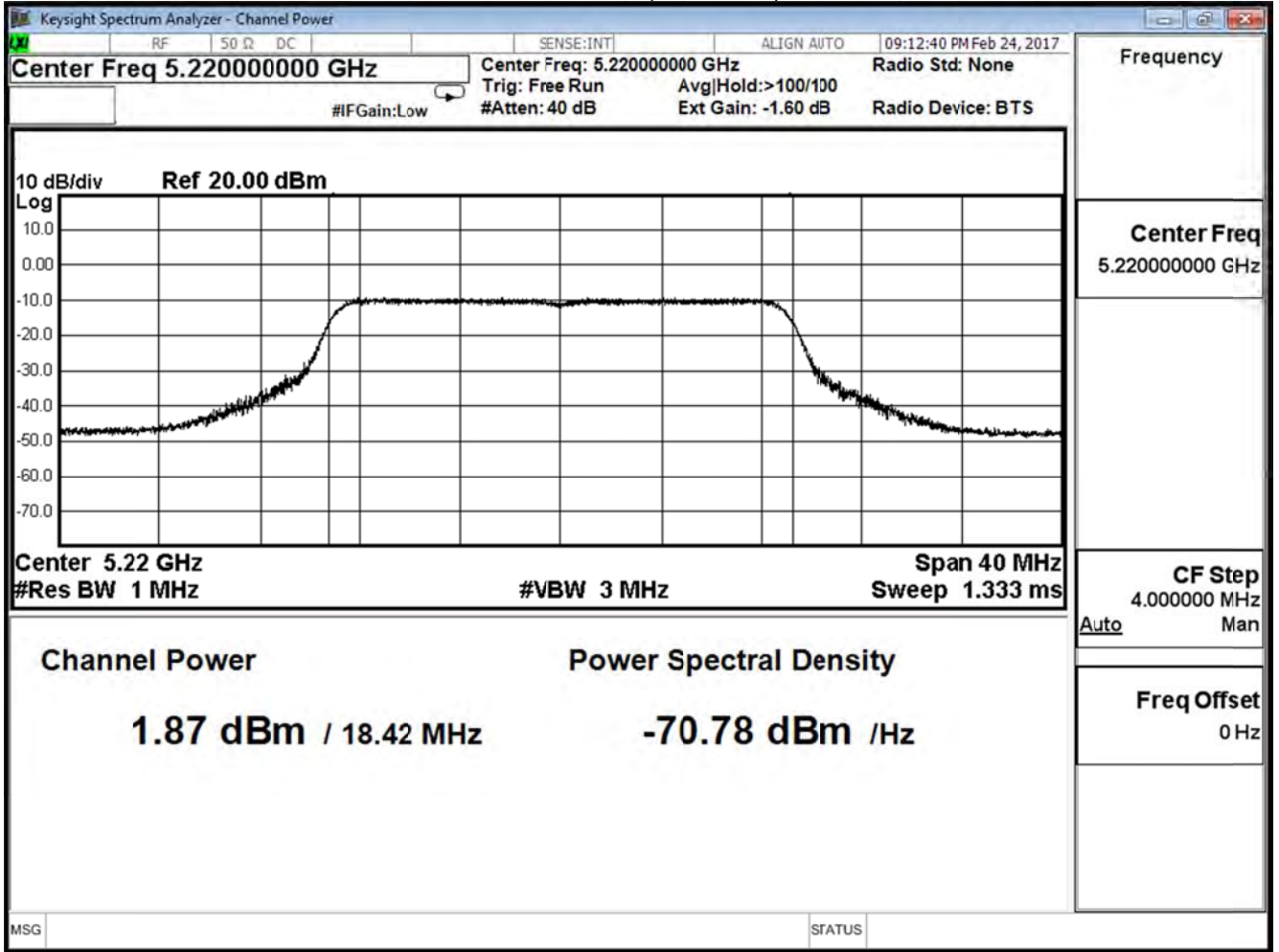
Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	Require Limit
Channel No	Frequency (MHz)										
36	5180	-0.27	--	--	--	--	--	--	--	--	≤ 22.75
44	5220	1.87	1.67	1.57	1.47	1.37	1.13	1.01	0.77	0.51	≤ 22.75
48	5240	-0.25	--	--	--	--	--	--	--	--	≤ 22.75

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

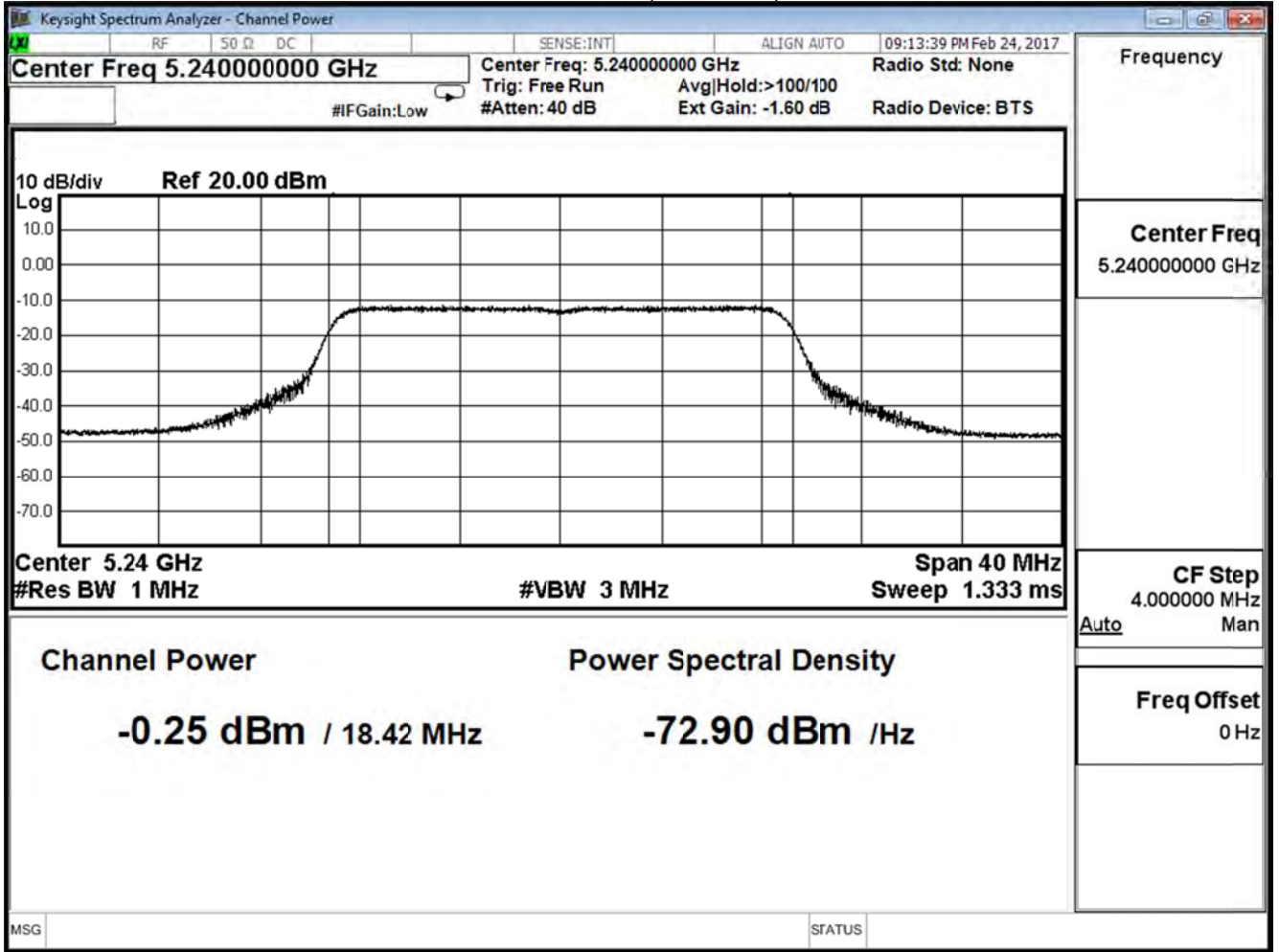
Channel 36 (5180MHz)



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

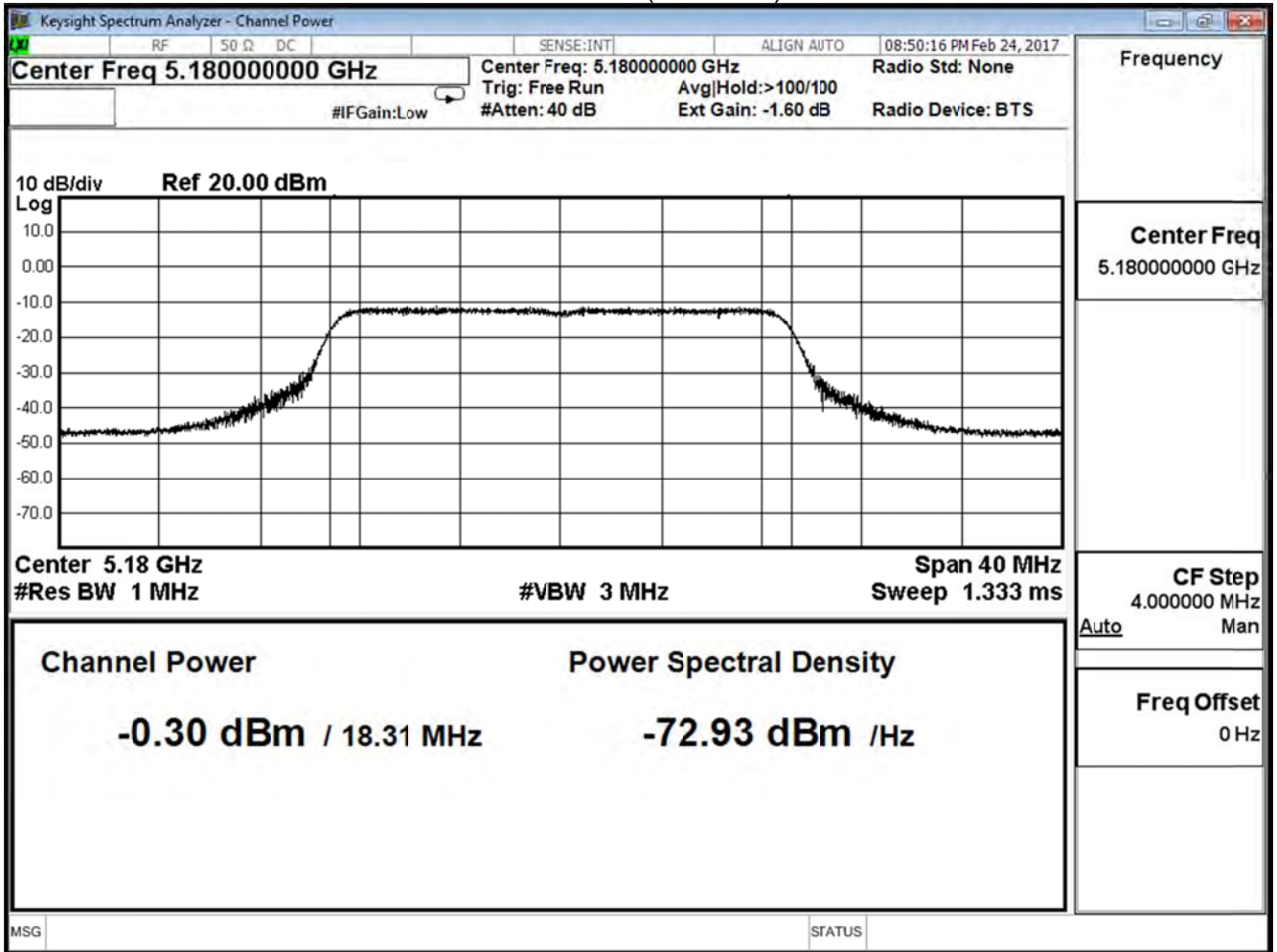
IEEE 802.11AC (20M) (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	-0.30	≤ 22.75
44	5220	2.64	≤ 22.75
48	5240	-0.49	≤ 22.75

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

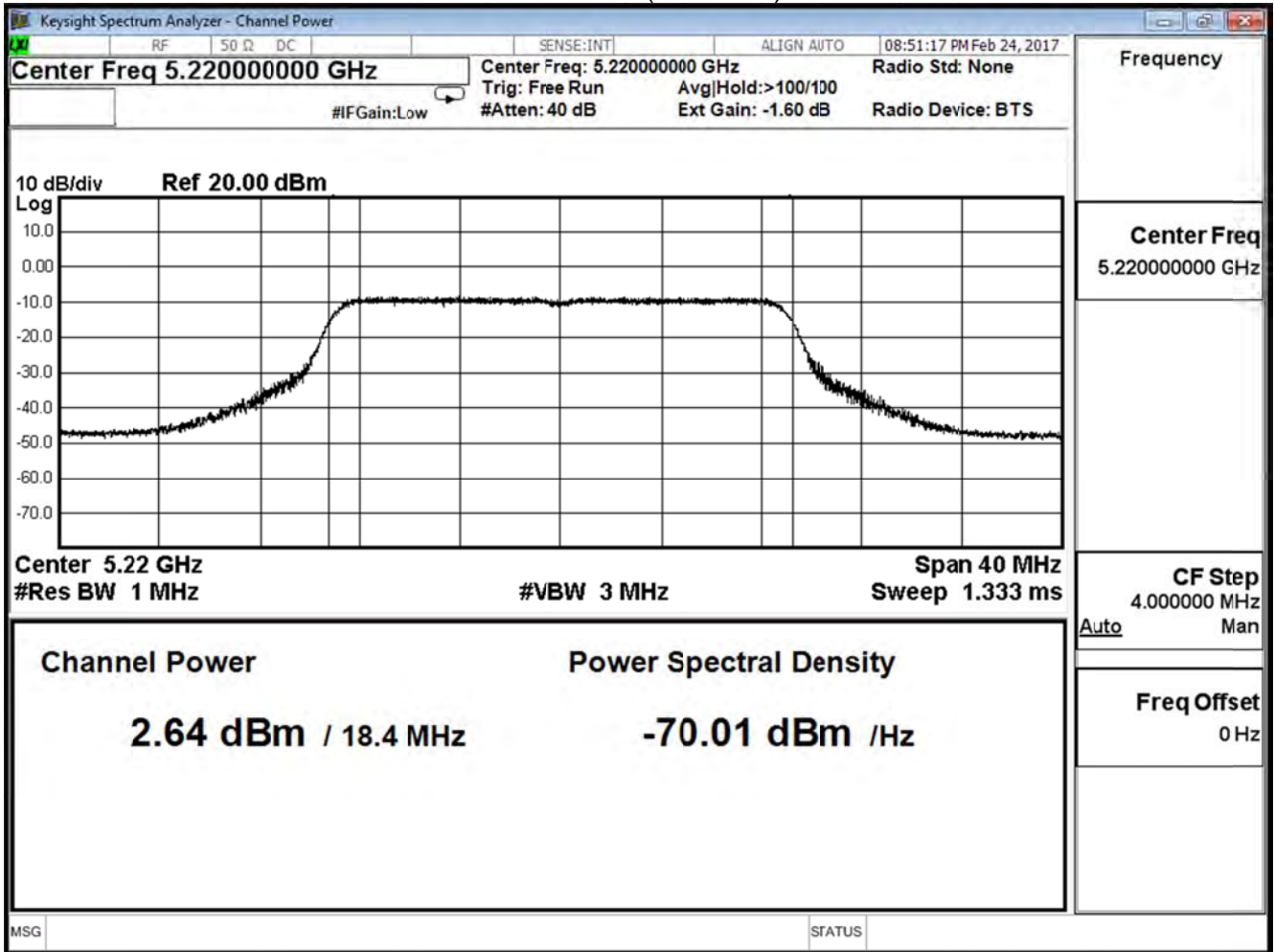
Note:

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

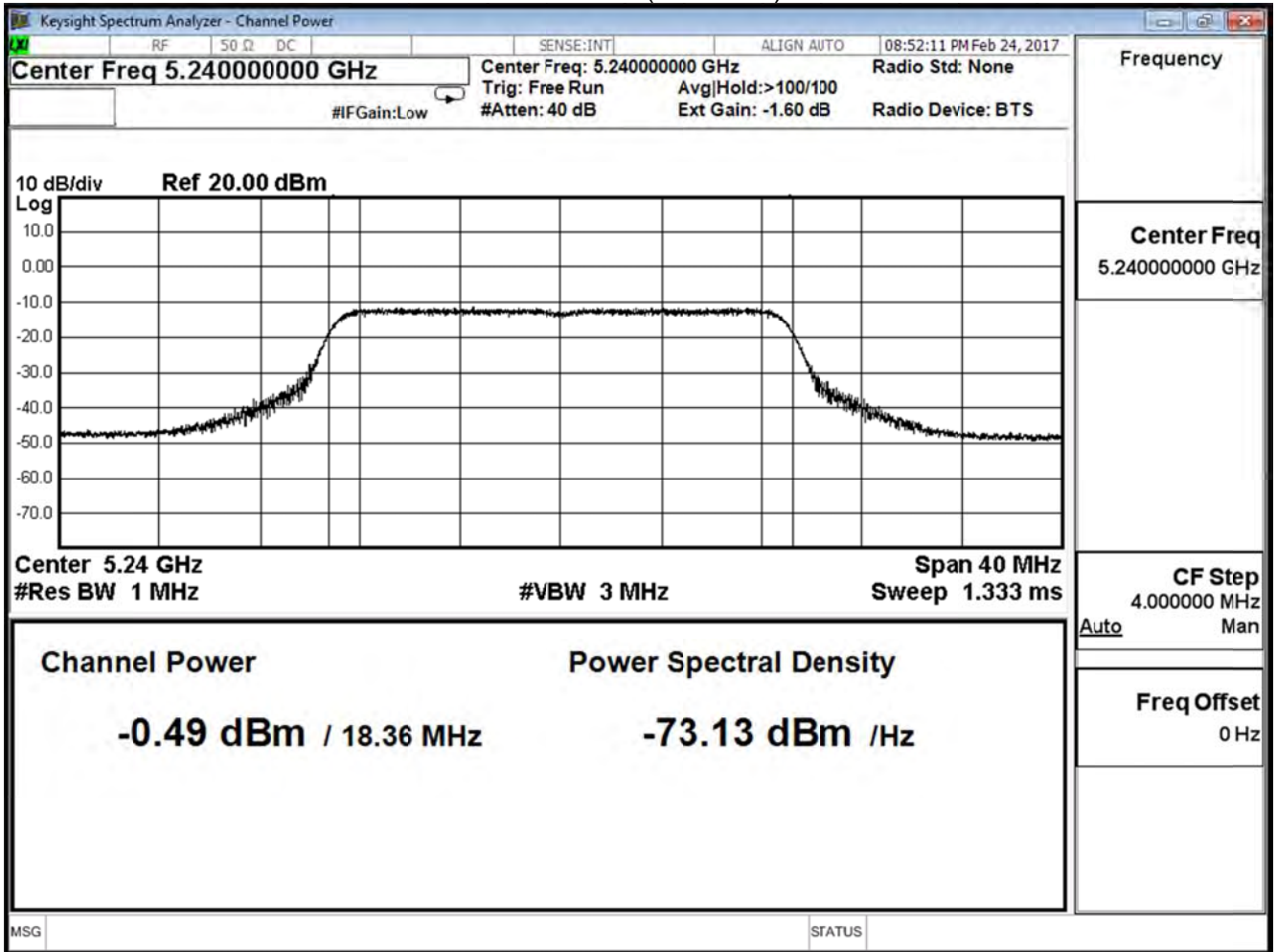
Channel 36 (5180MHz)



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

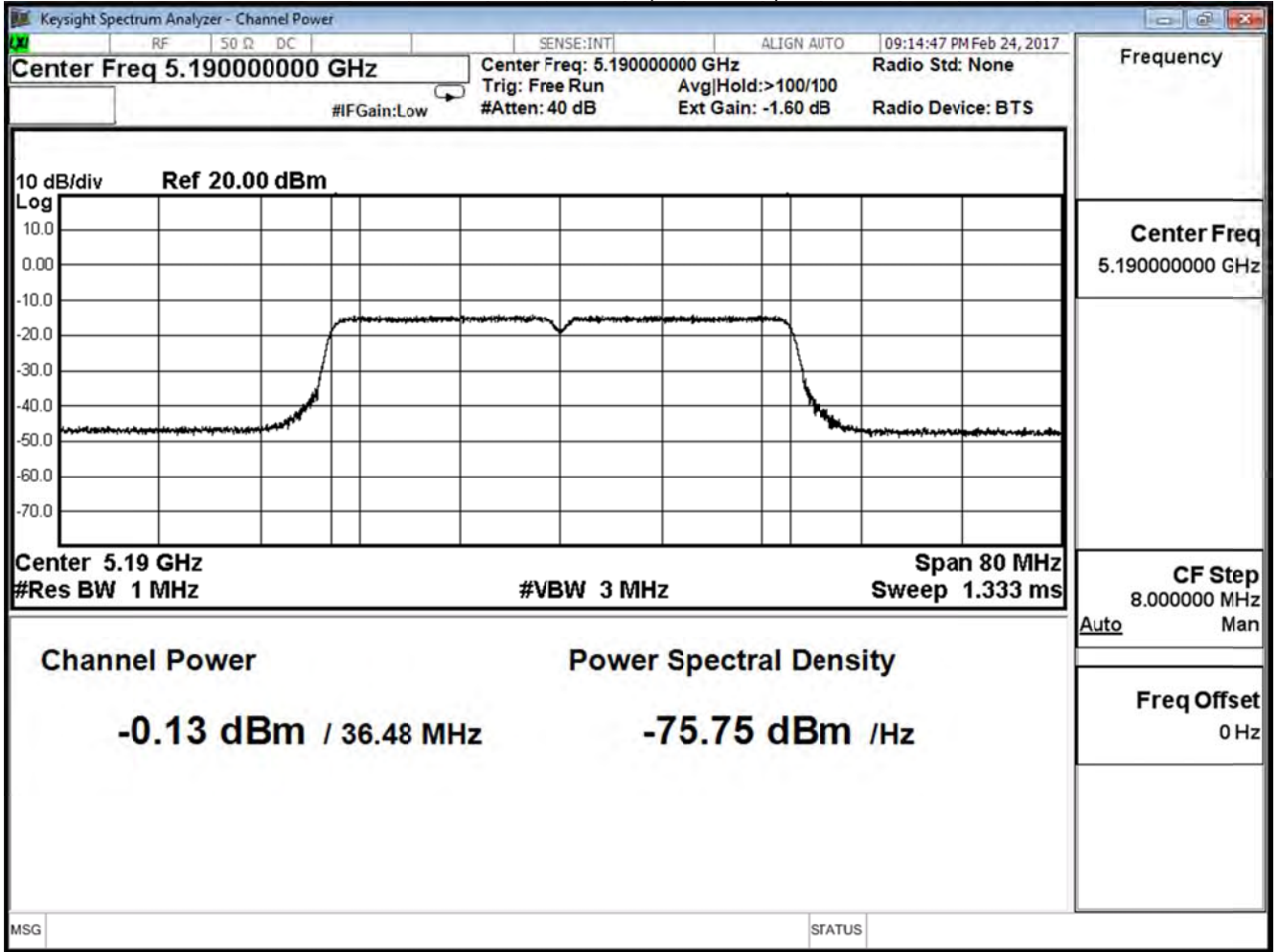
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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

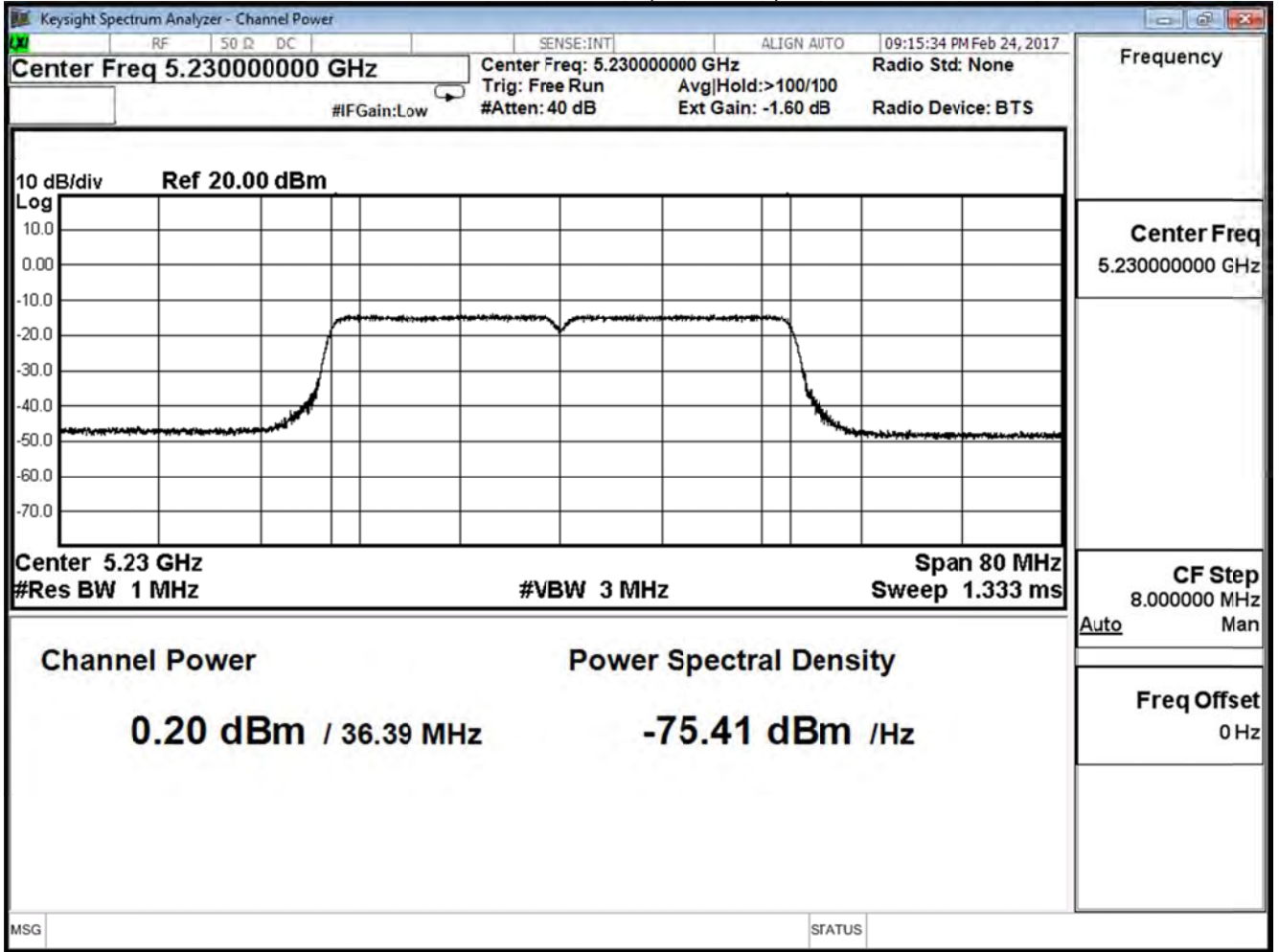
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	-0.13	--	--	--	--	--	--	--	--	--	≤ 22.75
46	5230	0.20	0.00	-0.10	-0.30	-0.40	-0.52	-0.76	-1.00	-1.29	-1.98	≤ 22.75

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

Channel 38 (5190MHz)



Channel 46 (5230MHz)



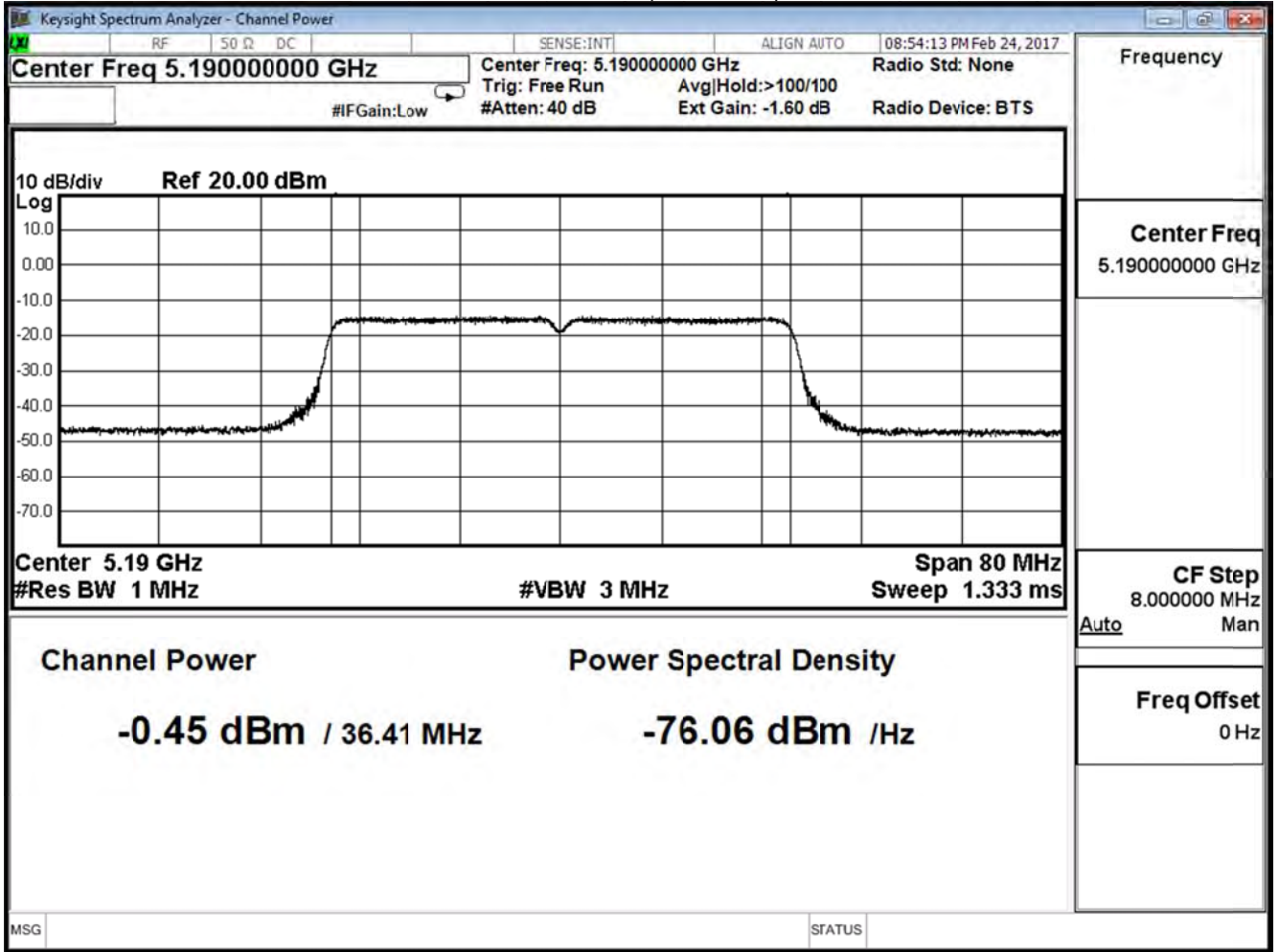
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/02/24	Test Site	SR10-H

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

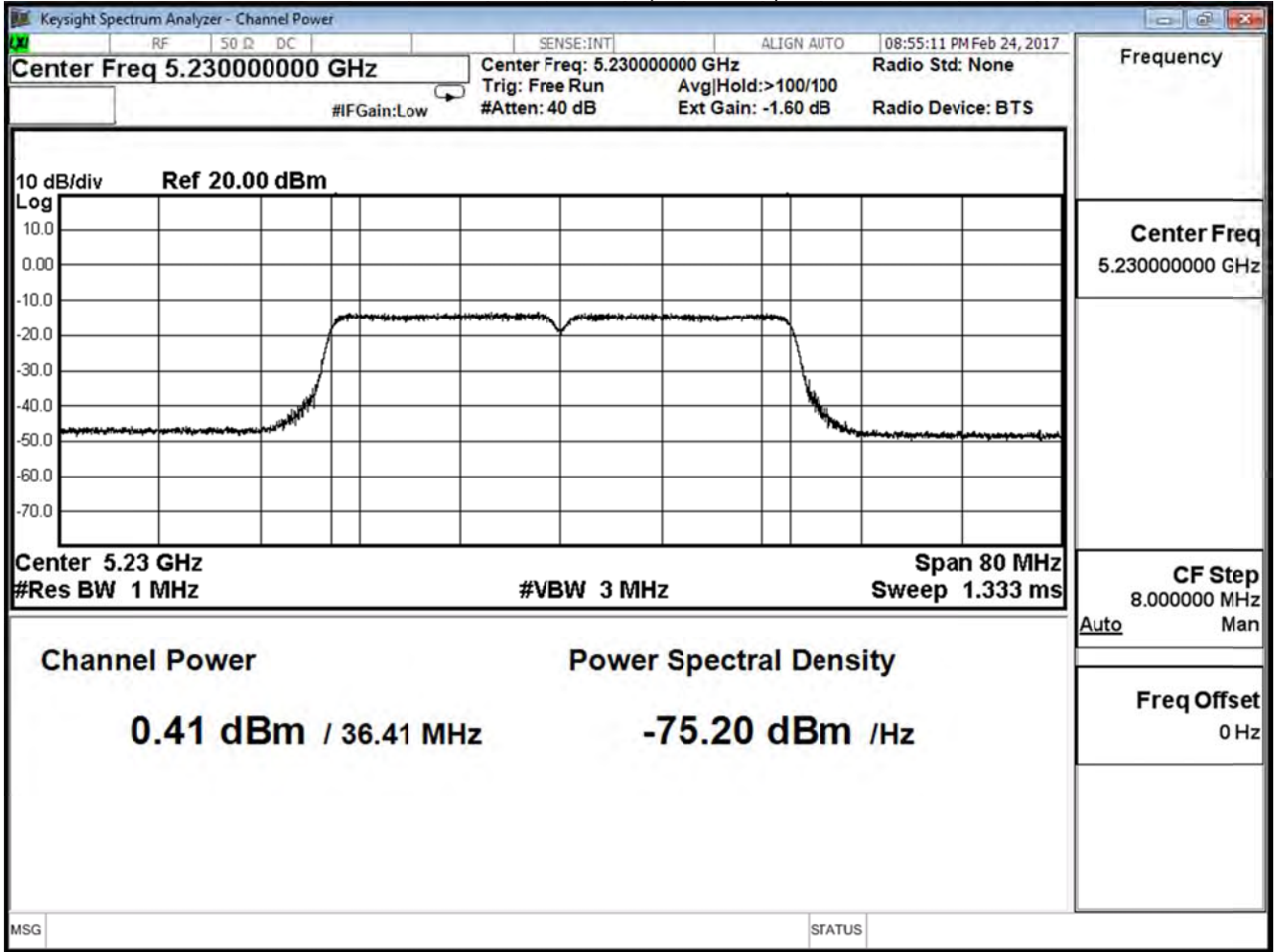
Peak Power Output (dBm)												
MCS Index		0	1	2	3	4	5	6	7	8	9	Require Limit
Channel No	Frequency (MHz)											
38	5190	-0.45	--	--	--	--	--	--	--	--	--	≤ 22.75
46	5230	0.41	0.39	0.31	0.21	0.01	-0.19	-0.43	-0.67	-0.79	-1.22	≤ 22.75

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

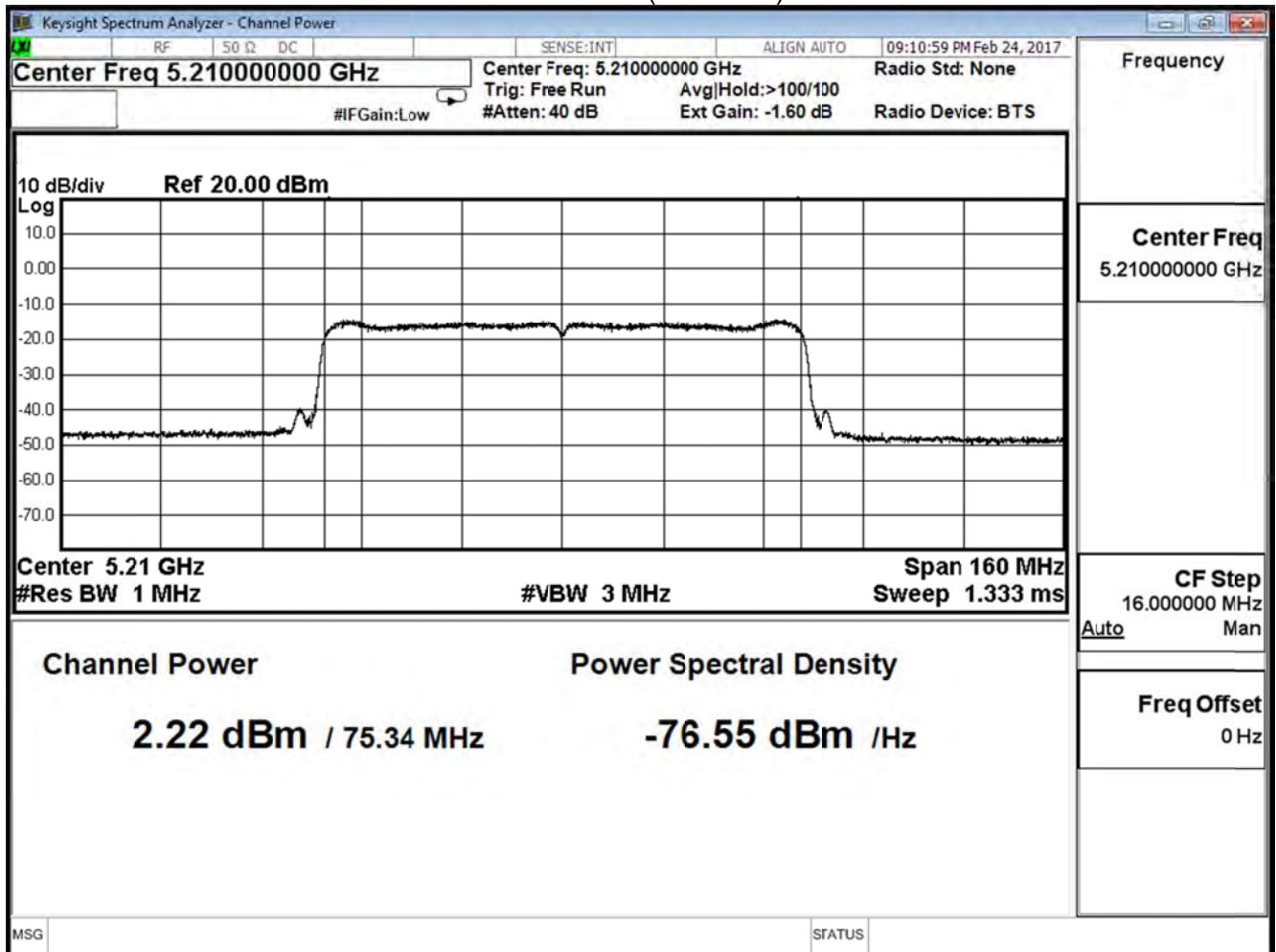
IEEE 802.11ac 80M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	2.20	≤ 22.75

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

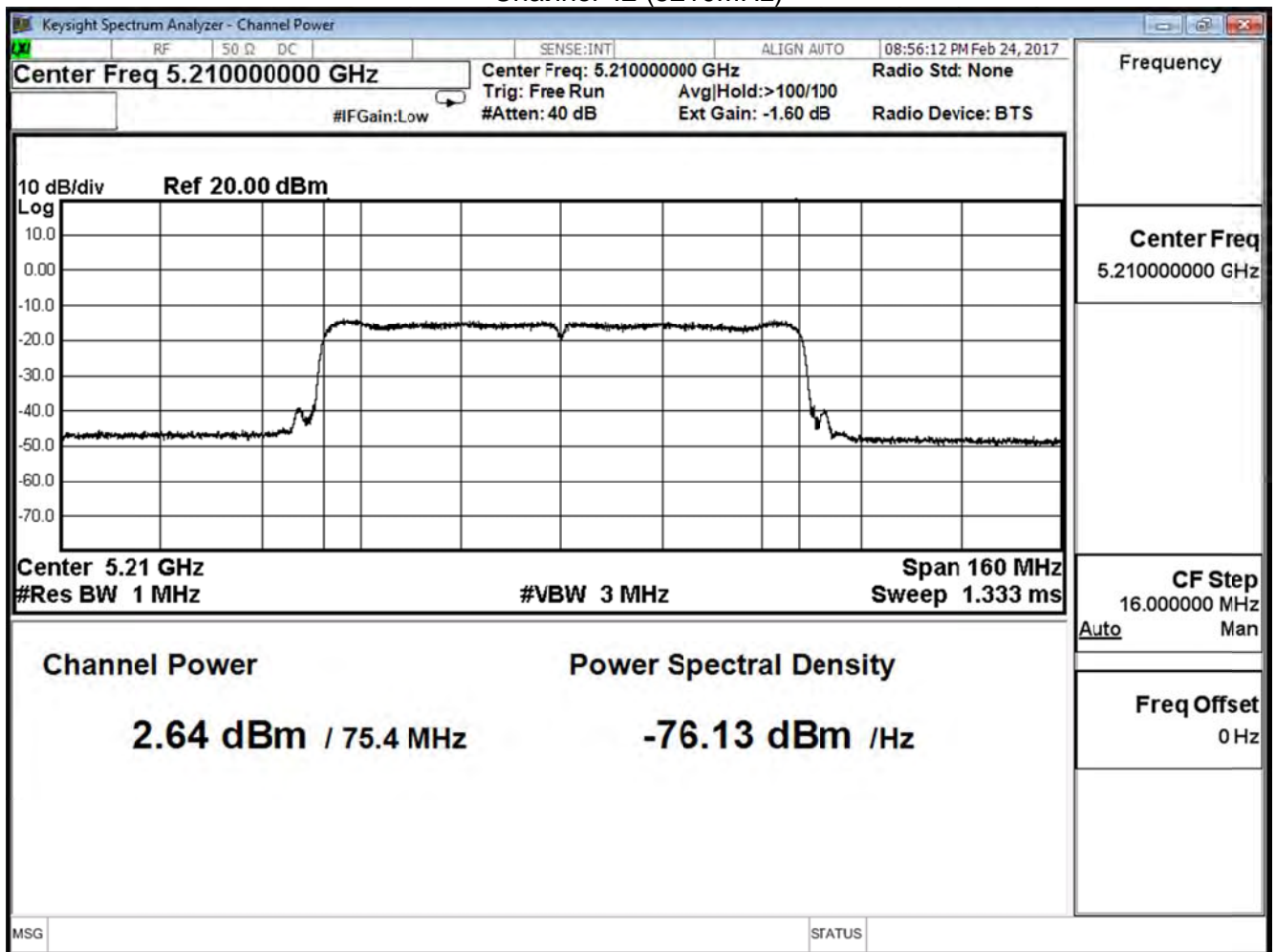
IEEE 802.11ac 80M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
42	5210	2.64	≤ 22.75

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

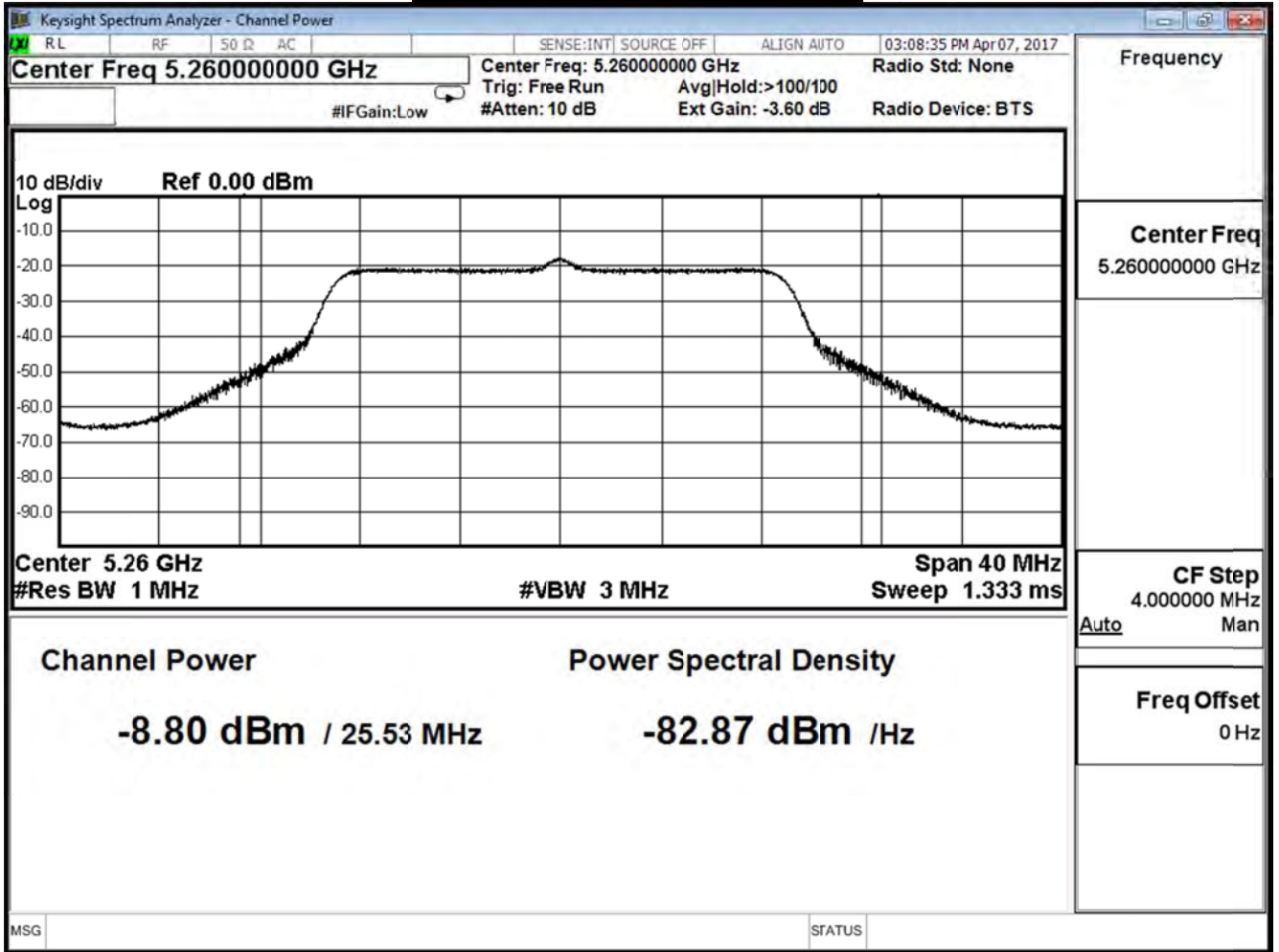
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_20M (ANT 0)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
52	5260	-8.800	≤-0.27	Pass
60	5300	-7.910	≤-0.27	Pass
64	5320	-8.830	≤-0.27	Pass

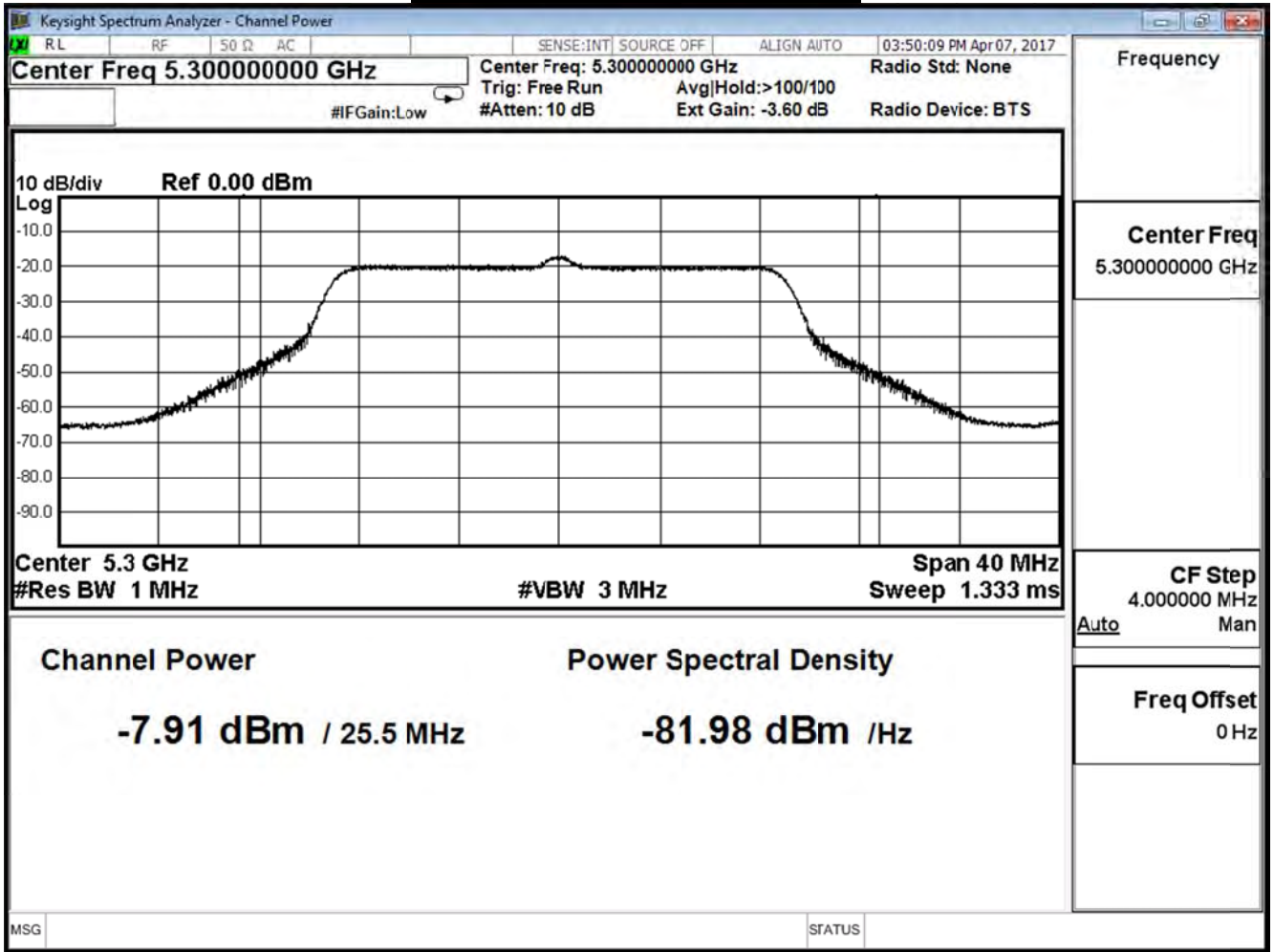
Peak Power Output (dBm)										
MCS Index		Data Rate								Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	
52	5260	-8.800	--	--	--	--	--	--	--	≤-0.27dBm
60	5300	-7.910	-7.990	-8.030	-8.050	-8.060	-8.110	-8.140	-8.170	
64	5320	-8.830	--	--	--	--	--	--	--	

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

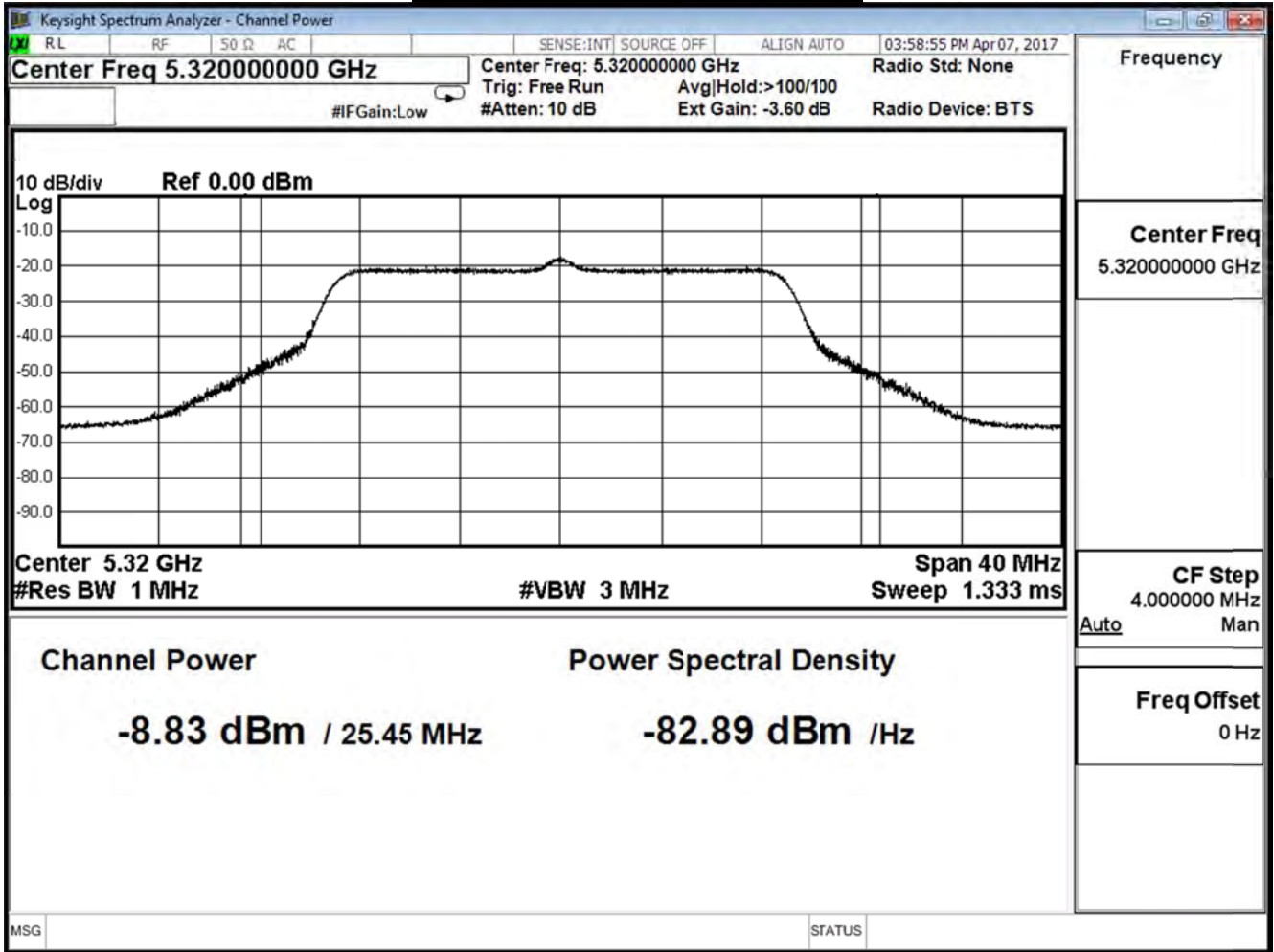
Peak transmit Power - Channel 52



Peak transmit Power - Channel 60



Peak transmit Power - Channel 64



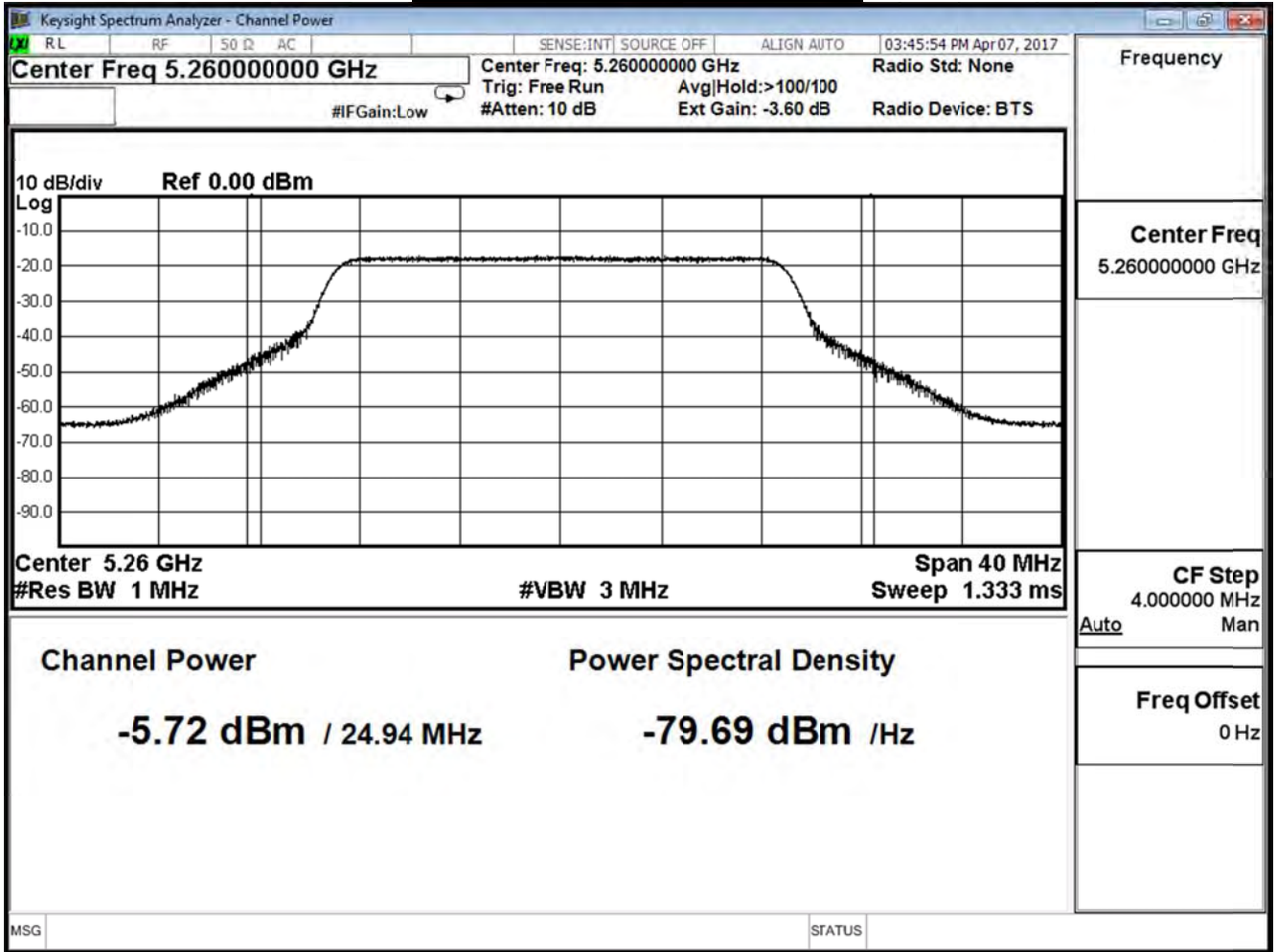
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_20M (ANT 1)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
52	5260	-5.720	≤ -0.27	Pass
60	5300	-6.030	≤ -0.27	Pass
64	5320	-5.910	≤ -0.27	Pass

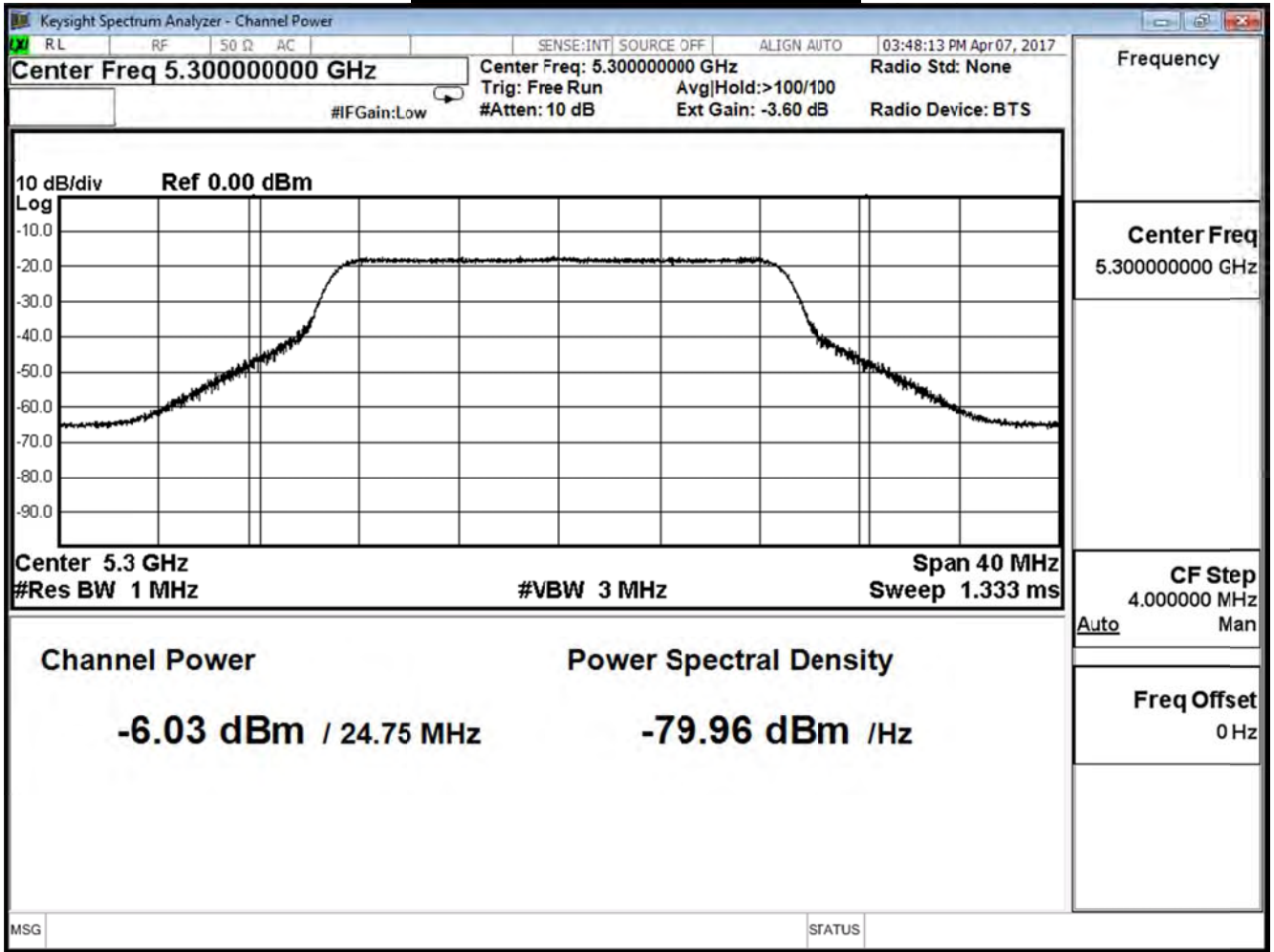
Peak Power Output (dBm)										
MCS Index		Data Rate								Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	
52	5260	-5.720	--	--	--	--	--	--	--	≤ -0.27dBm
60	5300	-6.030	-6.090	-6.120	-6.140	-6.170	-6.200	-6.230	-6.250	
64	5320	-5.910	--	--	--	--	--	--	--	

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

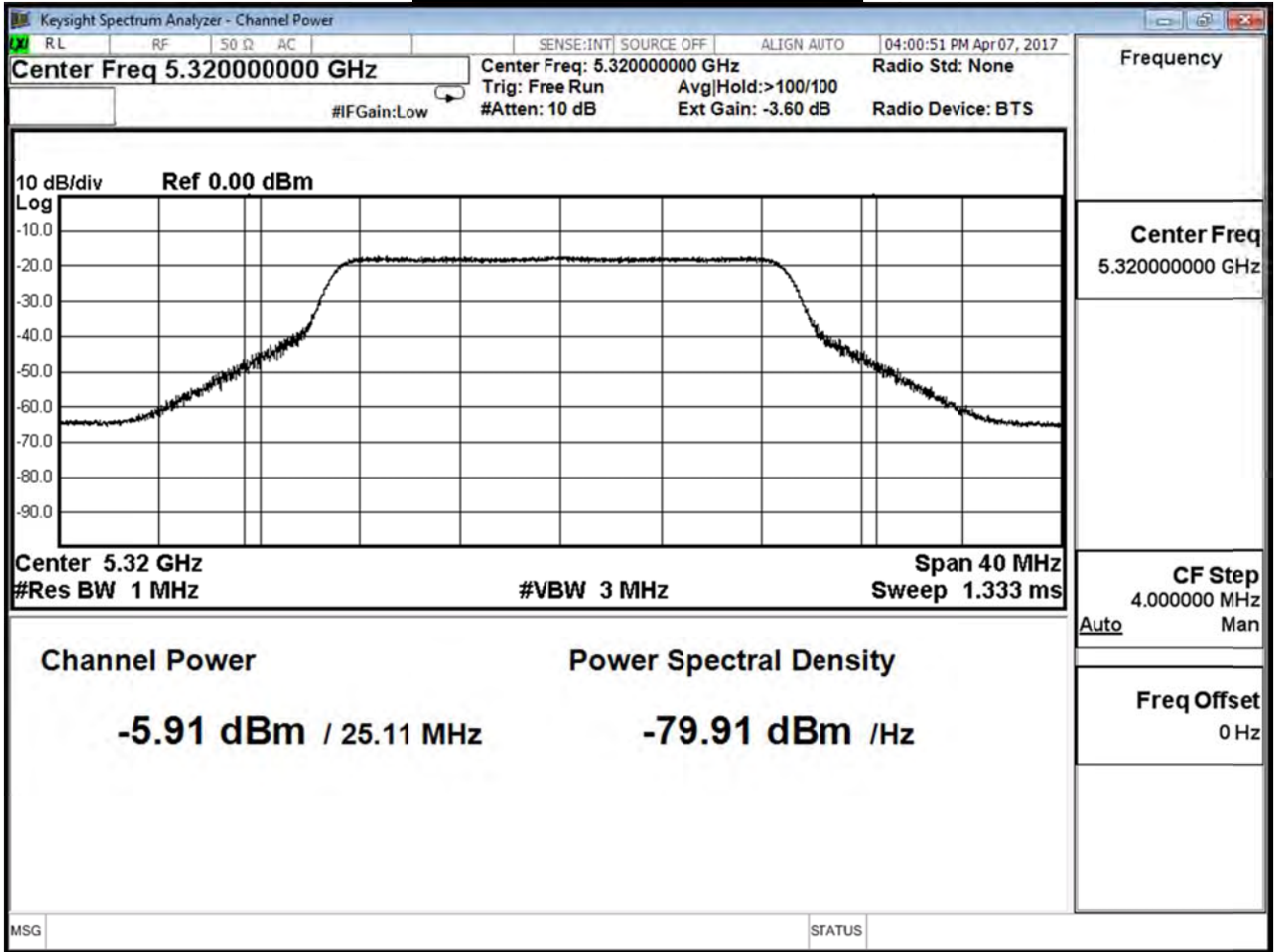
Peak transmit Power - Channel 52



Peak transmit Power - Channel 60



Peak transmit Power - Channel 64



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac (20M) (ANT0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
52	5260	-3.982	≤ -0.27
60	5300	-3.859	≤ -0.27
64	5320	-4.119	≤ -0.27

Note:

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

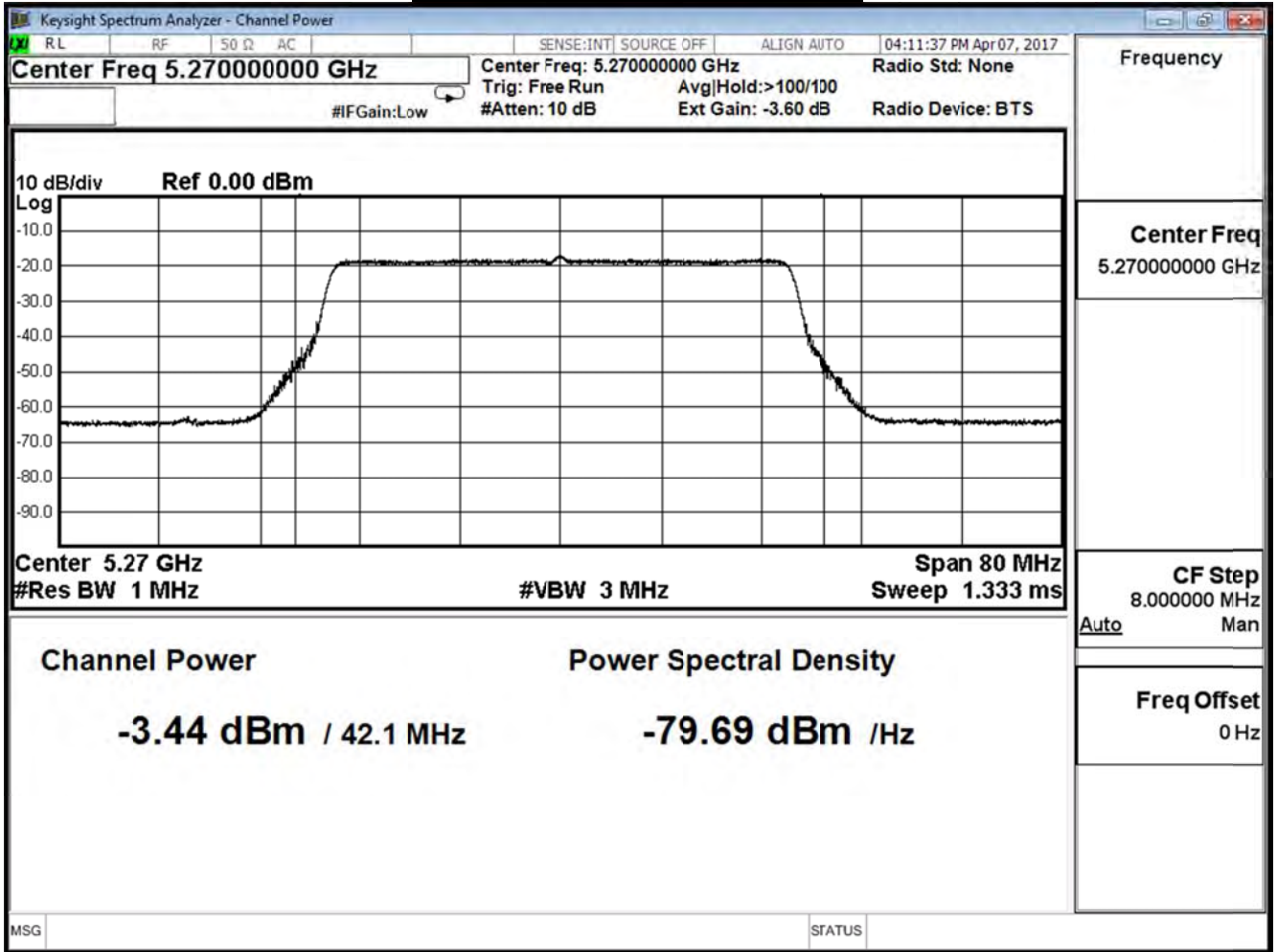
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_40M (ANT 0)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
54	5270	-3.440	≤-0.27	Pass
62	5310	-3.520	≤-0.27	Pass

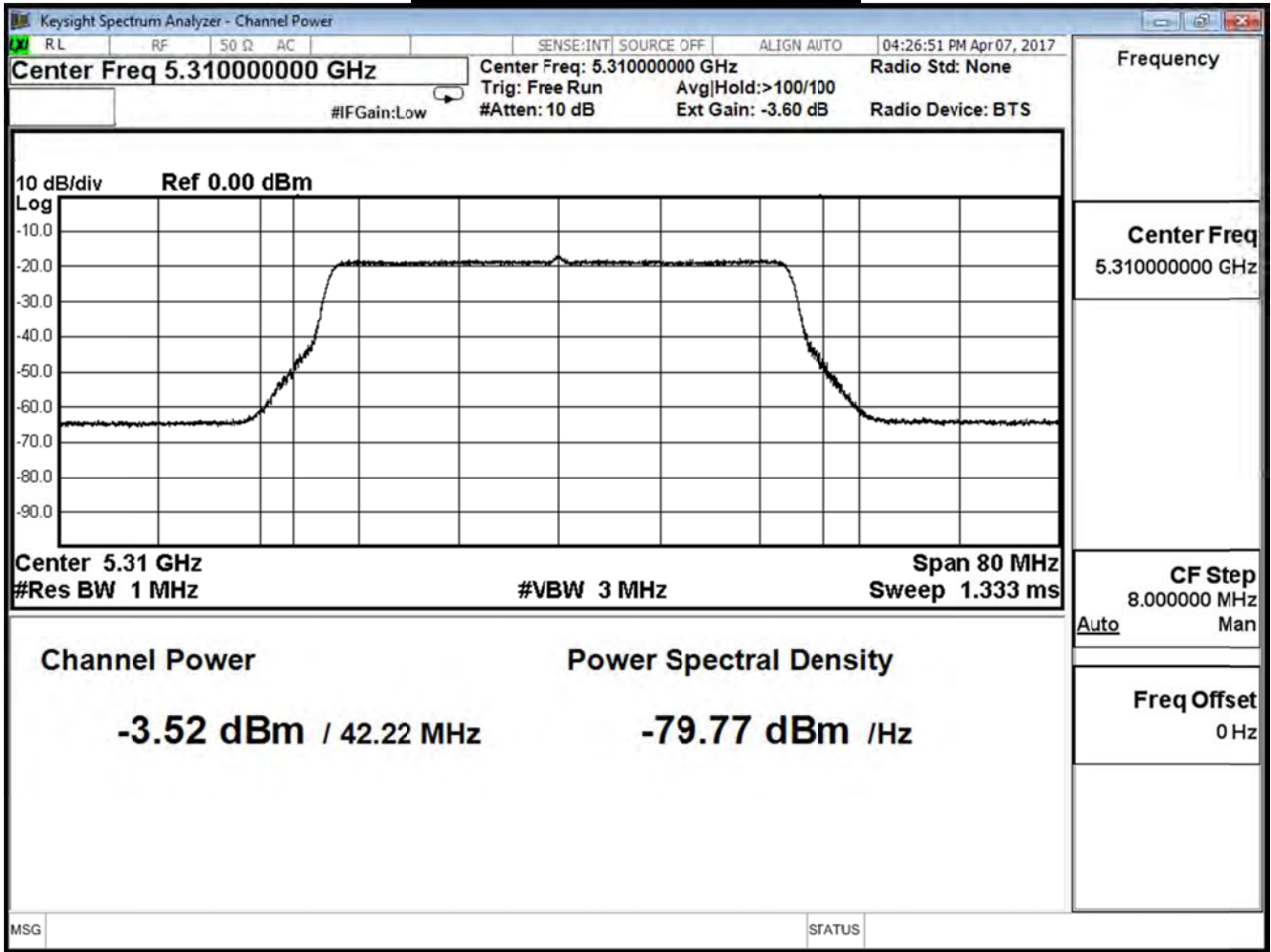
Peak Power Output (dBm)										
MCS Index		Data Rate								Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	
54	5270	-3.440	--	--	--	--	--	--	--	≤-0.27dBm
62	5310	-3.520	-3.550	-3.580	-3.620	-3.670	-6.710	-3.750	-3.770	

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

Peak transmit Power - Channel 54



Peak transmit Power - Channel 62



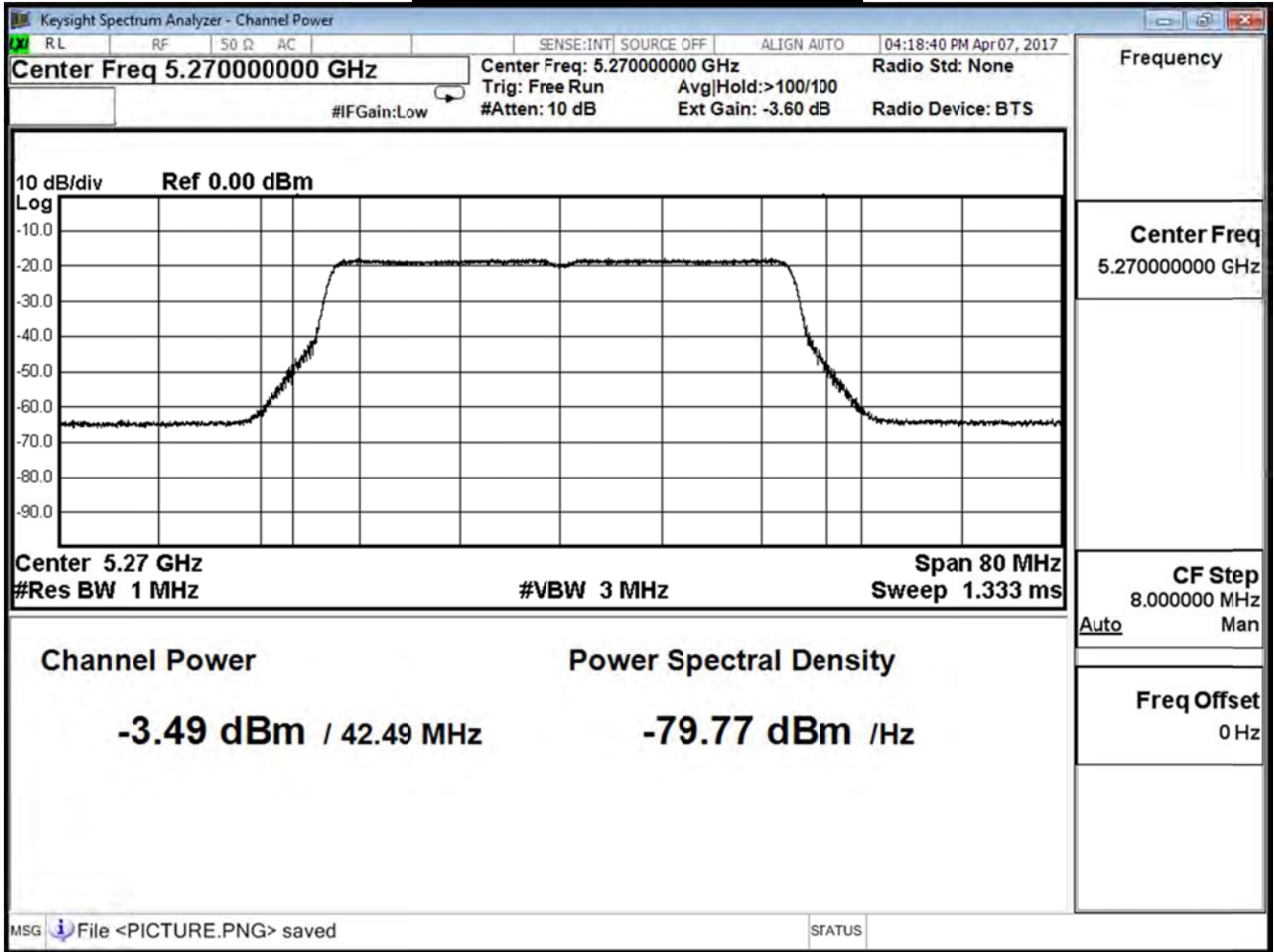
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_40M (ANT 1)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
54	5270	-3.490	≤-0.27	Pass
62	5310	-3.450	≤-0.27	Pass

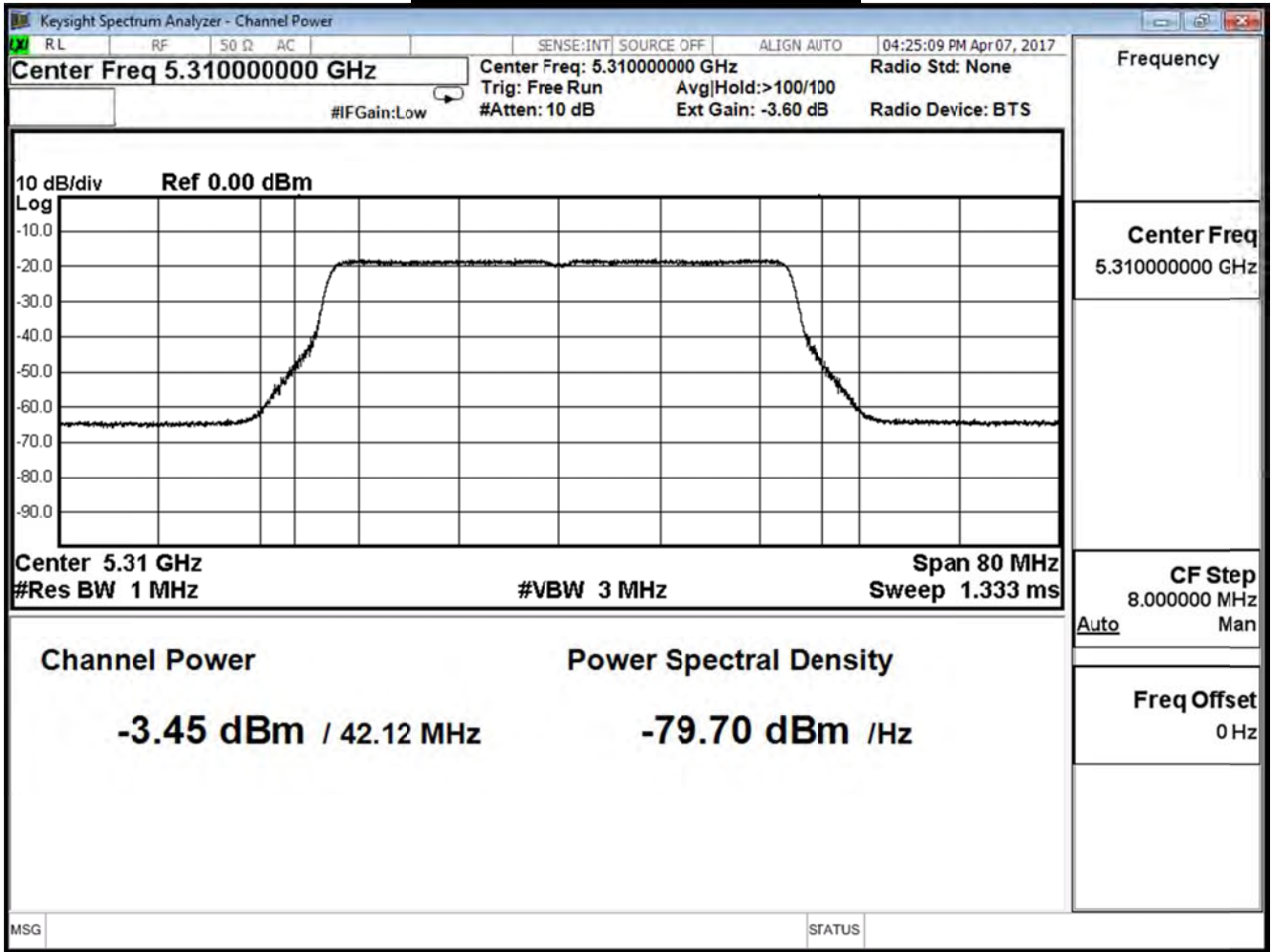
Peak Power Output (dBm)										
MCS Index		Data Rate								Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	
54	5270	-3.490	--	--	--	--	--	--	--	≤-0.27dBm
62	5310	-3.450	-3.490	-3.510	-3.530	-3.570	-3.600	-3.630	-3.640	

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

Peak transmit Power - Channel 54



Peak transmit Power - Channel 62



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac (40M) (ANT0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
54	5270	-0.455	≤ -0.27
62	5310	-0.475	≤ -0.27

Note:

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

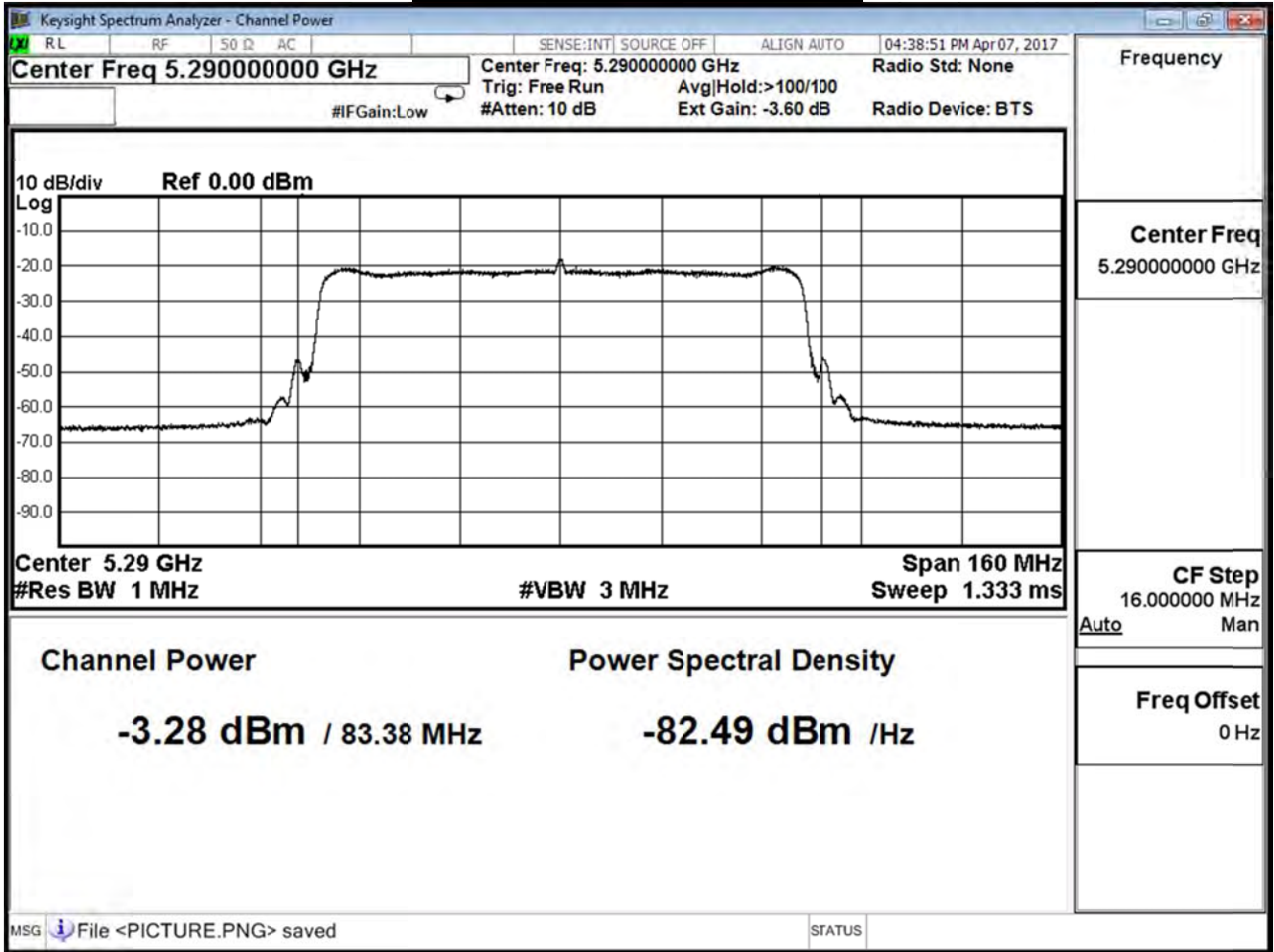
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_80M (ANT 0)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
58	5290	-3.28	≤-0.27	Pass

Peak Power Output (dBm)												
MCS Index		Data Rate										Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	8	9	
58	5290	-3.280	-3.330	-3.360	-3.380	-3.420	-3.470	-3.490	-3.520	-3.540	-3.580	≤-0.25

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

Peak transmit Power - Channel 54



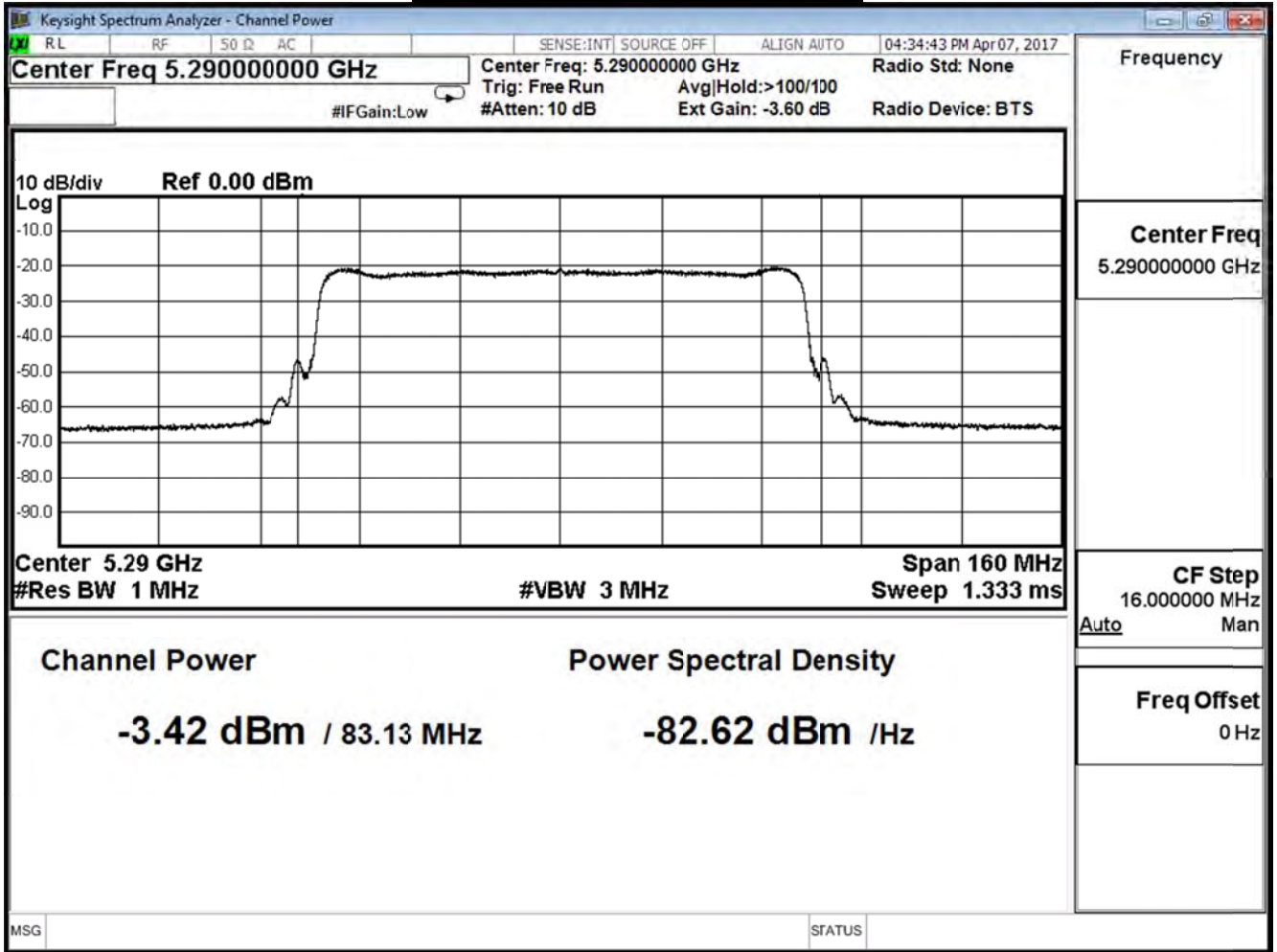
Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac_80M (ANT 1)				
Channel No.	Frequency(MHz)	Measure Level (dBm)	Limit (dBm)	Result
58	5290	-3.42	≤-0.27	Pass

Peak Power Output (dBm)												
MCS Index		Data Rate										Required Limit
Channel No	Frequency (MHz)	0	1	2	3	4	5	6	7	8	9	≤-0.25
58	5290	-3.420	-3.460	-3.480	-3.500	-5.350	-3.570	-3.590	-3.620	-3.650	-3.670	

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm

Peak transmit Power - Channel 54



Product	Mimosa C5c		
Test Item	Peak Transmit power		
Test Mode	Mode 1: Tx-Dish ANT		
Date of Test	2017/04/07	Test Site	SR10-H

IEEE 802.11ac (80M) (ANT0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
58	5290	-0.339	≤ -0.27

Note:

Required Limit=23.98dBm-(30.25dBi-6dBi)=-0.27dBm