



RADIO TEST REPORT

FCC ID : MSQ-RTAXE4P00

Equipment : AXE11000 Tri Band WiFi Router

Brand Name : ASUS

Model Name : ET12, ZenWiFi ET12, ASUS ZenWiFi ET12

Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan

Manufacturer (1) : Compal Networking (KunShan) Co., LTD.
No. 520, Nanbang Rd., Economic & Technical
Development Zone Kunshan, Jiangsu Province
China

Manufacturer (2) : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.
Ba Thien Industrial Park, Ba Hien commune, Binh
Xuyen district, Vinh Phuc Province

Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 19, 2021, and testing was started from Jul. 21, 2021 and completed on Nov. 04, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Cliff Chang

Sporton International Inc. Hsinchu Laboratory

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Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Information.....5

1.2 Applicable Standards10

1.3 Testing Location Information.....10

1.4 Measurement Uncertainty11

2 Test Configuration of EUT12

2.1 Test Channel Mode12

2.2 The Worst Case Measurement Configuration.....17

2.3 EUT Operation during Test19

2.4 Accessories20

2.5 Support Equipment.....20

2.6 Test Setup Diagram22

3 Transmitter Test Result26

3.1 AC Power-line Conducted Emissions26

3.2 Emission Bandwidth.....28

3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)29

3.4 Peak Power Spectral Density (E.I.R.P.).....32

3.5 Unwanted Emissions.....36

3.6 Contention Based Protocol.....41

4 Test Equipment and Calibration Data42

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of Emission Bandwidth

Appendix C. Test Results of Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

Appendix D. Test Results of Peak Power Spectral Density (E.I.R.P.)

Appendix E. Test Results of Unwanted Emissions

Appendix F. Test Results of Contention-Based Protocol

Appendix G. Test Photos

Photographs of EUT v01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
3.6	15.407(d)	Contention-Based Protocol	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**

Report Producer: **Wendy Pan**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-7125	ax (HEW20)	6115-7095	33-229 [50]
5925-7125	ax (HEW40)	6125-7085	35-227 [25]
5925-7125	ax (HEW80)	6145-7025	39-215 [12]
5925-7125	ax (HEW160)	6185-6985	47-207 [6]

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	4TX
5.925-7.125GHz	802.11ax HEW20-BF	20	4TX
5.925-7.125GHz	802.11ax HEW40	40	4TX
5.925-7.125GHz	802.11ax HEW40-BF	40	4TX
5.925-7.125GHz	802.11ax HEW80	80	4TX
5.925-7.125GHz	802.11ax HEW80-BF	80	4TX
5.925-7.125GHz	802.11ax HEW160	160	4TX
5.925-7.125GHz	802.11ax HEW160-BF	160	4TX

Note:

- ◆ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ BWch is the nominal channel bandwidth.
- ◆ The channel defined in the IEEE Standard P802.11ax™/D6.1.



1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth					
1	-	-	3	-	WHA YU	C660-510565-A	PIFA	I-PEX	Note1
2	-	-	2	-	WHA YU	C660-510565-A	PIFA	I-PEX	
3	-	-	1	-	WHA YU	C660-510565-A	PIFA	I-PEX	
4	-	-	4	-	WHA YU	C660-510565-A	PIFA	I-PEX	
5	3	2	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
6	4	1	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
7	1	4	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
8	2	3	-	-	WHA YU	C660-510565-A	PIFA	I-PEX	
9	-	-	-	1	YAGEO	ANT3216A063R2400A	Chip	N/A	

Note1:

Ant.	Port				Antenna Gain (dBi)							
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz				Bluetooth
						UNII 1	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	-	-	3	-	-	-	-	0.97	0.81	1.07	1.14	-
2	-	-	2	-	-	-	-					-
3	-	-	1	-	-	-	-					-
4	-	-	4	-	-	-	-					-
5	3	2	-	-	3.03	3.63	4.44	-	-	-	-	-
6	4	1	-	-	2.13	4.04	3.14	-	-	-	-	-
7	1	4	-	-	2.34	2.76	3.46	-	-	-	-	-
8	2	3	-	-	3.67	4.17	4.94	-	-	-	-	-
9	-	-	-	1	-	-	-	-	-	-	-	1.69

Directional Gain (dBi)					
WLAN 2.4GHz		WLAN 5GHz UNII 1		WLAN 5GHz UNII 3	
4T1S	4T2S	4T1S	4T2S	4T1S	4T2S
6.66	3.67	4.32	4.17	5.09	4.94

Note2: The above information was declared by manufacturer.

WLAN 6GHz: The directional gain is calculated which follows the procedure of KDB 662911 D01.

WLAN 2.4GHz/5GHz: The directional gain is measured which follows the procedure of KDB 662911 D03.

The antenna report is provided in the operational description for this application.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.



Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Bluetooth Function:

For Bluetooth mode (1TX/1RX)

Only Port 1 can be use as transmit and receive antenna.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF (4T1S)	0.927	0.33	2.926m	1k
802.11ax HEW40-BF (4T1S)	0.957	0.19	4.357m	300
802.11ax HEW80-BF (4T1S)	0.892	0.5	4.142m	300
802.11ax HEW160-BF (4T1S)	0.931	0.31	5.189m	300
802.11ax HEW20-BF (4T2S)	0.906	0.43	4.365m	300
802.11ax HEW40-BF (4T2S)	0.967	0.15	5.082m	300
802.11ax HEW80-BF (4T2S)	0.934	0.3	4.829m	300
802.11ax HEW160-BF (4T2S)	0.942	0.26	5.367m	300
802.11ax HEW160 (4T4S)	0.876	0.57	180.625u	10k

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz.			
Device Type	<input checked="" type="checkbox"/>	Indoor Access Point	<input checked="" type="checkbox"/>	Subordinate
	<input type="checkbox"/>	Indoor Client	<input type="checkbox"/>	Standard Power Access Point
	<input type="checkbox"/>	Dual Client	<input type="checkbox"/>	Standard Client
	<input type="checkbox"/>	Fixed Client		
Test Software Version	Mtool (ver.3.2.1.3)			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

Brand Name	Model Name	Description
ASUS	ET12	All the models are identical, the different model names served as a marketing strategy.
	ZenWiFi ET12	
	ASUS ZenWiFi ET12	

Note: From the above model: ET12 was selected as representative model for the test and its data was recorded in this report.

The above information was declared by manufacturer.

1.1.6 Table for components source information

Items	Main Source	Second Source
Transceiver (2.5G LAN)	Brand: MAXLINEAR Model: GPY211	Brand: Broadcom Model: BCM50991

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Supports Function

Function	Support Type	Remark
AP Router	Master	Support 2.4GHz/5GHz/6GHz
Bridge	Slave without radar detection	Support 2.4GHz/5GHz
Repeater	Master	Support 2.4GHz/5GHz
Mesh	Master	Support 2.4GHz/5GHz/6GHz

Note: From the above, AP Router (Master) has been selected to test AC power-line conducted emissions and Unwanted Emissions below 1GHz items.

The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15.407
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- ◆ FCC KDB 987594 D02 v01r01
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (Other test items)	TH01-CB	Lucas Huang	22.4-22.8 / 55~60	Sep. 28, 2021~ Oct. 06, 2021
Radiated<1GHz	03CH05-CB	Stim Sung	23.5-24.6 / 55-59	Oct. 14, 2021 ~ Oct. 19, 2021
Radiated>1GHz	03CH06-CB	Stim Sung	24.4-25.5 / 55-58	Jul. 21, 2021 ~ Sep. 30, 2021
AC Conduction	CO01-CB	Peter Wu	22~24 / 58~60	Sep. 09, 2021
RF Conducted (Contention-Based Protocol test)	DF01-CB	Benson Su	23.5-24.1 / 64-66	Oct. 20, 2021~ Nov. 04, 2021



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For 4T4S:

Mode	Power Setting
802.11ax HEW160_Nss4,(MCS0)_4TX	-
6185MHz	87
6345MHz	90
6505MHz Straddle 6.425-6.525GHz	87
6665MHz	87
6825MHz Straddle 6.525-6.875GHz	85
6985MHz	89



For 4T1S:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
6115MHz	36
6255MHz	33
6415MHz	34
6435MHz	28
6475MHz	35
6515MHz	35
6535MHz	29
6695MHz	31
6855MHz	33
6875MHz Straddle 6.525-6.875GHz	31
6895MHz	31
6995MHz	33
7095MHz	36
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
6125MHz	49
6245MHz	55
6405MHz	47
6445MHz	47
6485MHz	46
6525MHz Straddle 6.425-6.525GHz	49
6565MHz	48
6685MHz	50
6845MHz	49
6885MHz Straddle 6.525-6.875GHz	51
6925MHz	51
7005MHz	53
7085MHz	56
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
6145MHz	62
6225MHz	58
6385MHz	58
6465MHz	58
6545MHz Straddle 6.425-6.525GHz	60
6625MHz	58
6705MHz	59
6785MHz	58
6865MHz Straddle 6.525-6.875GHz	60
6945MHz	61



Mode	Power Setting
7025MHz	59
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
6185MHz	72
6345MHz	69
6505MHz Straddle 6.425-6.525GHz	69
6665MHz	67
6825MHz Straddle 6.525-6.875GHz	65
6985MHz	73



For 4T2S:

Mode	Power Setting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
6115MHz	42
6255MHz	41
6415MHz	42
6435MHz	42
6475MHz	40
6515MHz	42
6535MHz	43
6695MHz	41
6855MHz	40
6875MHz Straddle 6.525-6.875GHz	39
6895MHz	42
6995MHz	43
7095MHz	45
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-
6125MHz	58
6245MHz	61
6405MHz	63
6445MHz	62
6485MHz	57
6525MHz Straddle 6.425-6.525GHz	60
6565MHz	62
6685MHz	59
6845MHz	56
6885MHz Straddle 6.525-6.875GHz	58
6925MHz	58
7005MHz	59
7085MHz	60
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-
6145MHz	78
6225MHz	74
6385MHz	72
6465MHz	74
6545MHz Straddle 6.425-6.525GHz	71
6625MHz	76
6705MHz	75
6785MHz	70
6865MHz Straddle 6.525-6.875GHz	70
6945MHz	71



Mode	Power Setting
7025MHz	70
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-
6185MHz	81
6345MHz	80
6505MHz Straddle 6.425-6.525GHz	80
6665MHz	79
6825MHz Straddle 6.525-6.875GHz	77
6985MHz	78



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + 2.5G-PHY(Main source) + Adapter 1
2	EUT + 2.5G-PHY(Main source) + Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT + 2.5G-PHY (Second source) + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Contention Based Protocol Emission MASK
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.)
Test Condition	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration. Radiated measurement



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + 2.5G-PHY(Main source) + Adapter 1
2	EUT in Y axis + 2.5G-PHY(Main source) + Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + 2.5G-PHY (Second source) + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
	CTX - EUT in Y axis + 2.5G-PHY(Main source)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT + 2.5G-PHY(Main source) / WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA0D2518 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS(ver 6.1.7601).
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	Remark
Adapter 1	DELTA	ADP-45FE	INPUT: 100-240V~1.2A, 50-60Hz OUTPUT: 19.0V, 2.37A, 45.0W	With the DC Power cable: Non-shielded, 1.5m
Adapter 2	AcBel	ADH011	INPUT: 100-240V~1.4A, 50-60Hz OUTPUT: 19.5V, 2.31A, 45.0W	With the DC Power cable: Non-shielded, 1.5m
Others				
Power cable*1: Non-shielded, 0.9m RJ-45 cable*1: Non-shielded, 1.5m				

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G WAN PC	DELL	T3400	N/A
B	2.5G LAN PC	DELL	T3400	N/A
C	LAN1 NB	DELL	E6430	N/A
D	LAN2 NB	DELL	E6430	N/A
E	2G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	6G Device	ASUS	ET12	MSQ-RTAXE4P00
H	Device NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G WAN PC	DELL	E4300	N/A
B	2.5G LAN PC	DELL	E4300	N/A
C	6G NB	DELL	E4300	N/A
D	2G NB	DELL	E4300	N/A
E	5G NB	DELL	E4300	N/A
F	6G Device	ASUS	ET12	MSQ-RTAXE4P00
G	LAN1 NB	DELL	E4300	N/A
H	LAN2 NB	DELL	E4300	N/A



For Radiated (above 1GHz):
For Non-beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

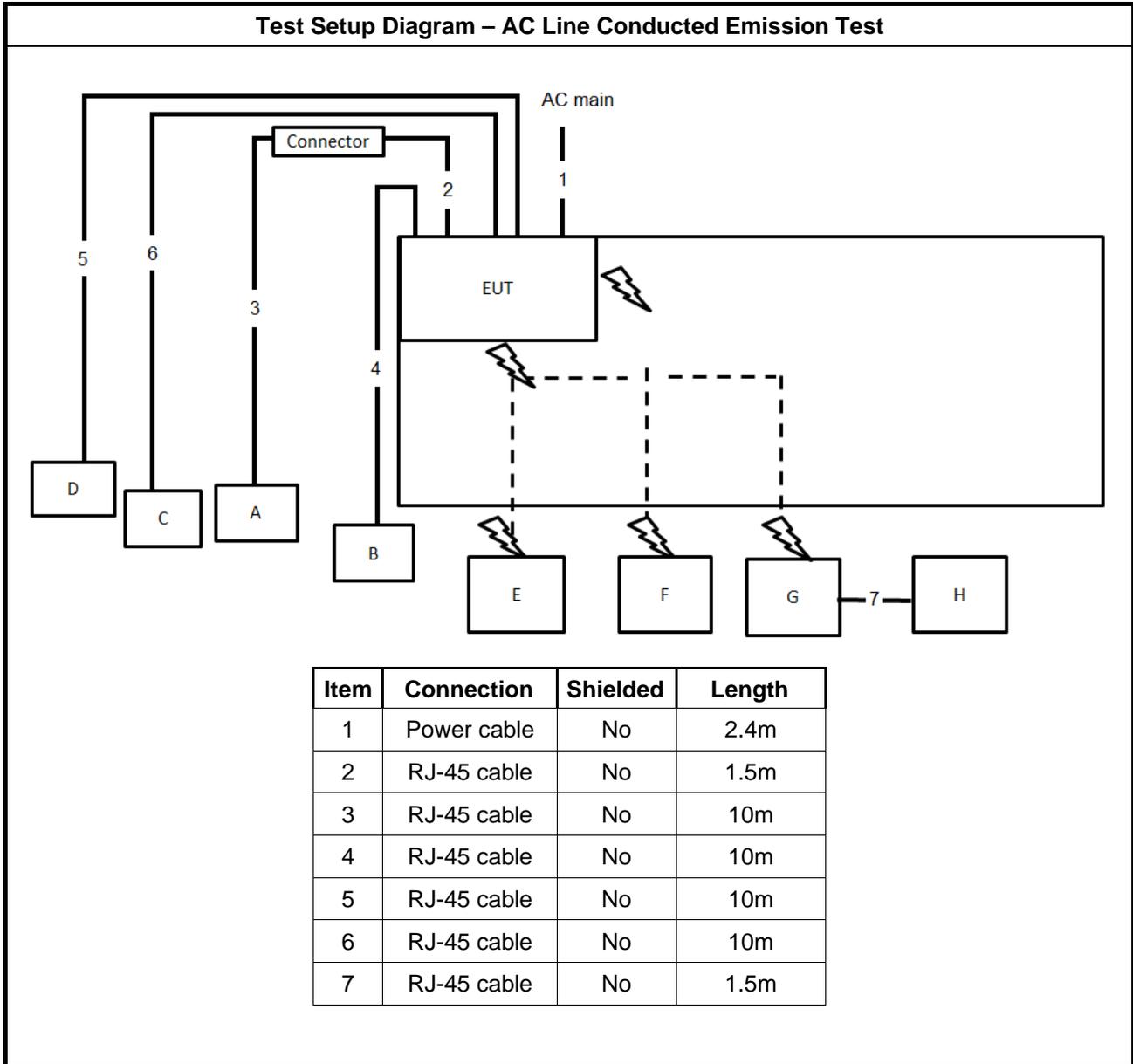
For Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	RX Device	ASUS	ET12	MSQ-RTAXE4P00
C	Notebook	DELL	E4300	N/A

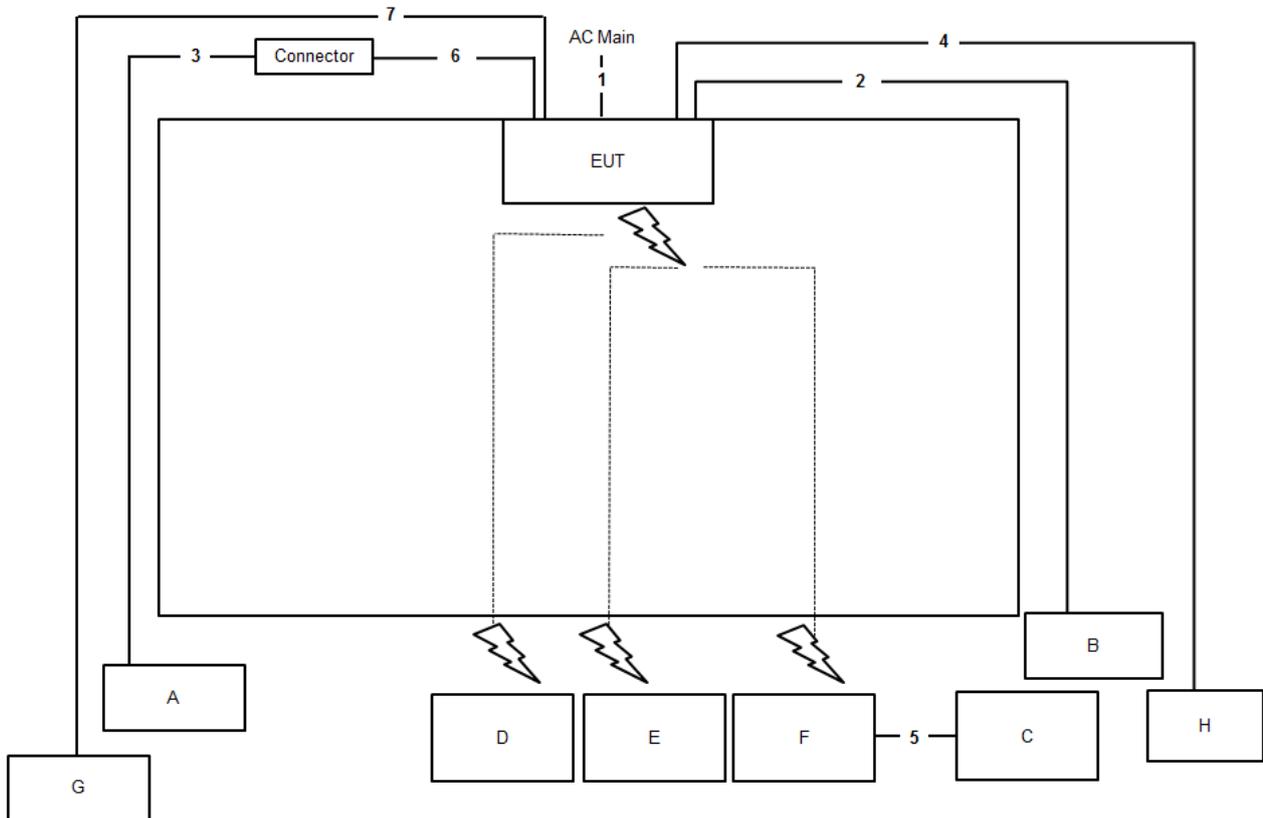
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



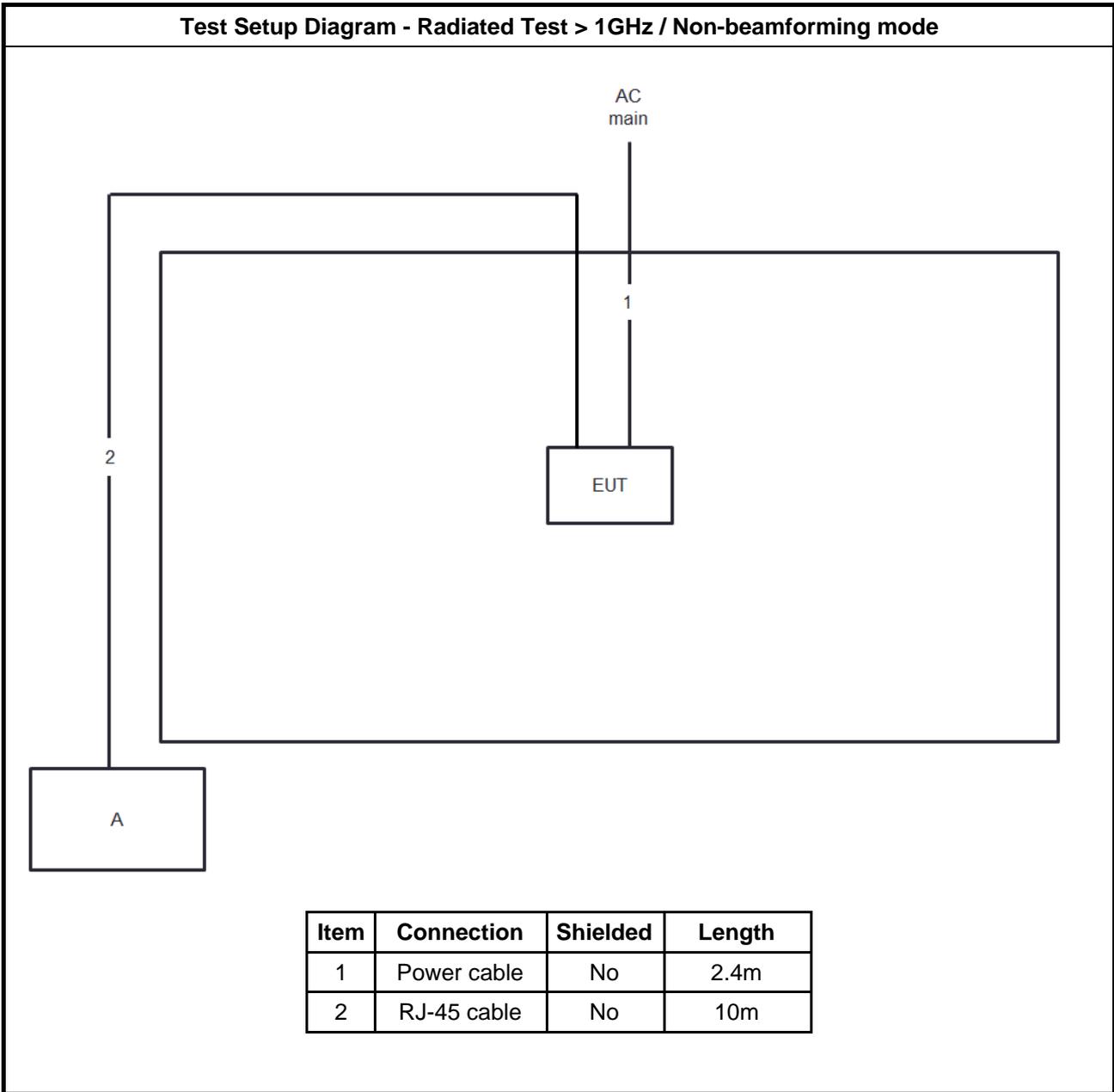
Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1.5m
6	RJ-45 cable	No	1.5m
7	RJ-45 cable	No	10m

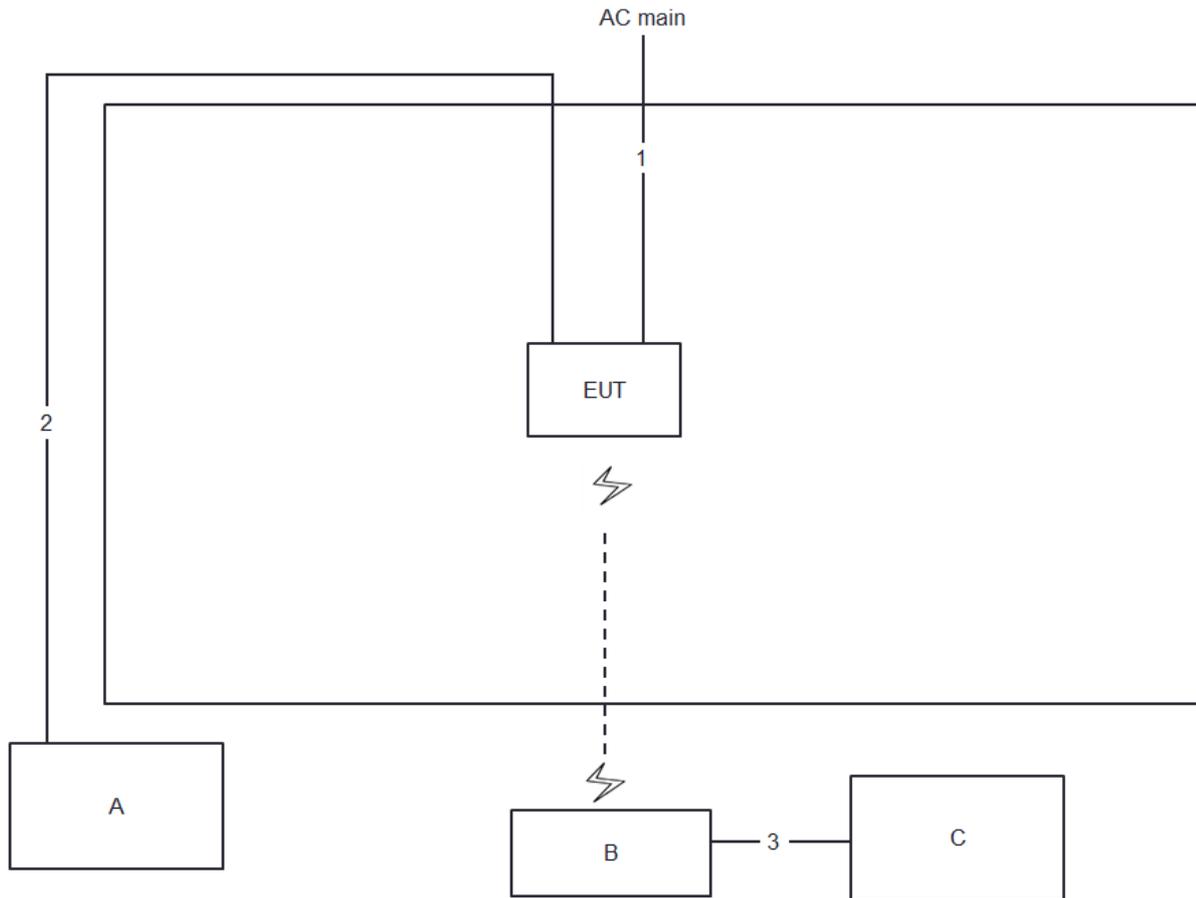


Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

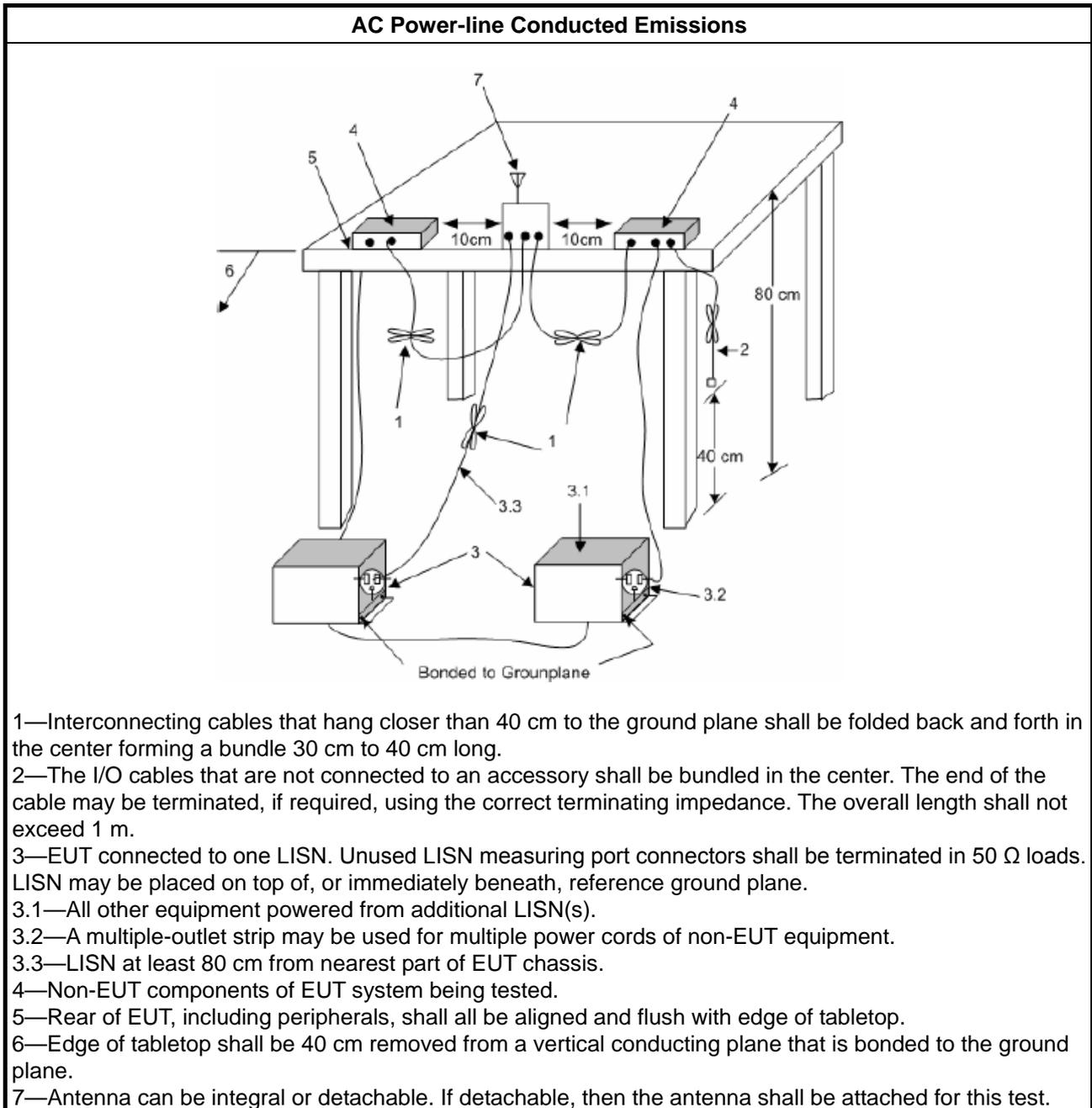
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- b. Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5925-6425 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6425-6525 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6525-6875 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6875-7125 GHz band, N/A

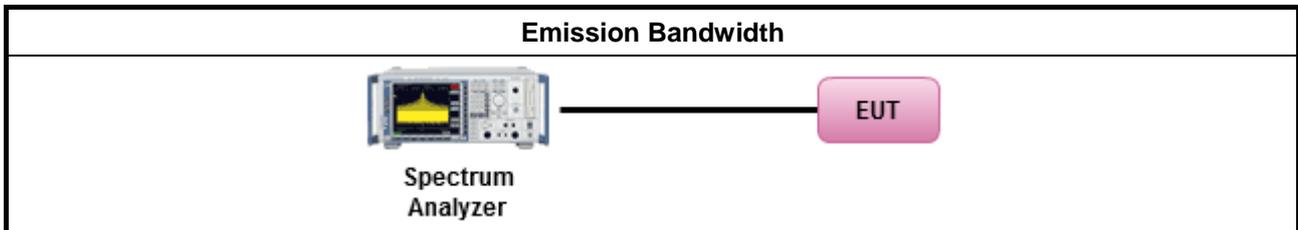
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	According to KDB 987594 D02 clause II.C, measurement procedure shall refer to FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

3.3.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.925 ~ 6.425 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm). ▪ For indoor access point : e.i.r.p < 30 dBm. ▪ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm. ▪ For client device control of a standard power access point : e.i.r.p < 30 dBm. ▪ For client device control of an indoor access point : e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/>	For the 6.425 ~ 6.525 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For indoor access point : e.i.r.p < 30 dBm. ▪ For client device control of an indoor access point : e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/>	For the 6.525 ~ 6.875 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm). ▪ For indoor access point : e.i.r.p < 30 dBm. ▪ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm. ▪ For client device control of a standard power access point : e.i.r.p < 30 dBm. ▪ For client device control of an indoor access point : e.i.r.p < 24 dBm.
<input checked="" type="checkbox"/>	For the 6.875 ~ 7.125 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For indoor access point : e.i.r.p < 30 dBm. ▪ For client device control of an indoor access point : e.i.r.p < 24 dBm.



3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033. 	
Average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	
<input checked="" type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> Refer as FCC KDB 987594 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation. 	

Note :

The test is the final test result, It includes antenna /cable loss factor & FSL factor. The EIRP caculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP Formula :

EIRP(dBm) = PR(dBm) + LP(FSL factor)

where;

PR(dBm) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

PR(dBm) = P Meas(dBm) - GR(dBi) + LC(dB)

where;

P Meas(dBm) : Power measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

LP(FSL factor) Formula :

LP(dB)= 20 log F + 20 logD-27.54

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

Example.

Test mode 802.11ax HE20 BF 4T1S 6115MHz EIRP measurement.

PR Formula :

$$PR(\text{dBm}) = -32.02 - 13.48 + 5.5 = -40$$

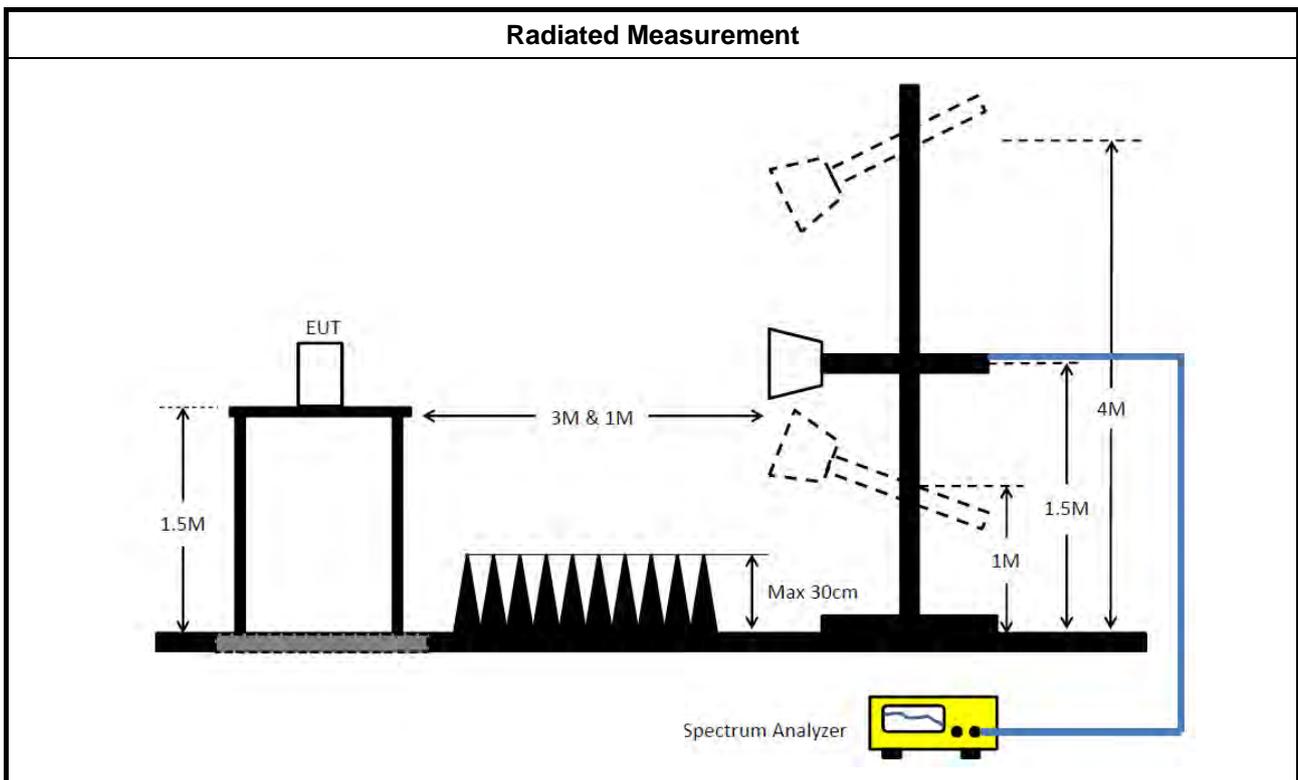
LP(FSL factor) Formula :

$$LP(\text{dB}) = 20\log(6115) + 20\log(3) - 27.5 = 57.77$$

EIRP Formula :

$$EIRP(\text{dBm}) = -40 + 57.77 = 17.77$$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix C



3.4 Peak Power Spectral Density (E.I.R.P.)

3.4.1 Peak Power Spectral Density (E.I.R.P.) Limit

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.925 ~ 6.425 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz. ▪ For indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz. ▪ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
<input checked="" type="checkbox"/>	For the 6.425 ~ 6.525 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
<input checked="" type="checkbox"/>	For the 6.525 ~ 6.875 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz. ▪ For indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz. ▪ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
<input checked="" type="checkbox"/>	For the 6.875 ~ 7.125 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For indoor access point : e.i.r.p PSD < 5 dBm/MHz. ▪ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> ▪ According to KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
<input checked="" type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 987594 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.



Note :

The test is the final test result, It includes antenna /cable loss factor & FSL factor.

The EIRP PSD caculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP PSD Formula :

$$\text{EIRP PSD(dBm/MHz)} = \text{PR(dBm/MHz)} + \text{LP(FSL factor)}$$

where;

PR(dBm/MHz) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

$$\text{PR(dBm/MHz)} = \text{P Meas(dBm/MHz)} - \text{GR(dBi)} + \text{LC(dB)}$$

where;

P Meas(dBm/MHz) : PSD measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

LP(FSL factor) Formula :

$$\text{LP(dB)} = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

Example.

Test mode 802.11ax HE20 BF 4T1S 6115MHz EIRP PSD measurement.

PR Formula :

$$\text{PR(dBm/MHz)} = -44.94 - 13.48 + 5.5 = -52.91$$

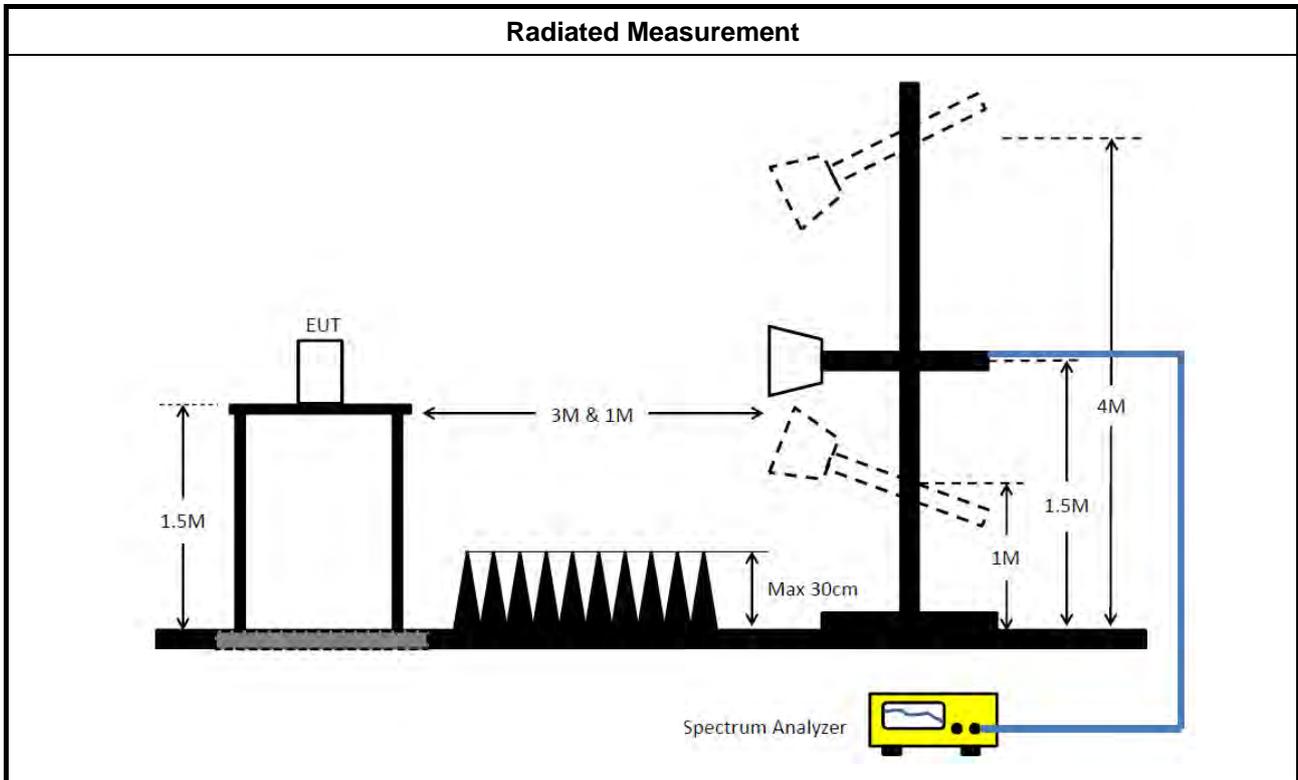
LP(FSL factor) Formula :

$$\text{LP(dB)} = 20\log(6117.04) + 20\log(3) - 27.5 = 57.77$$

EIRP PSD Formula :

$$\text{EIRP PSD(dBm/MHz)} = -52.91 + 57.77 = 4.86$$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix D



3.5 Unwanted Emissions

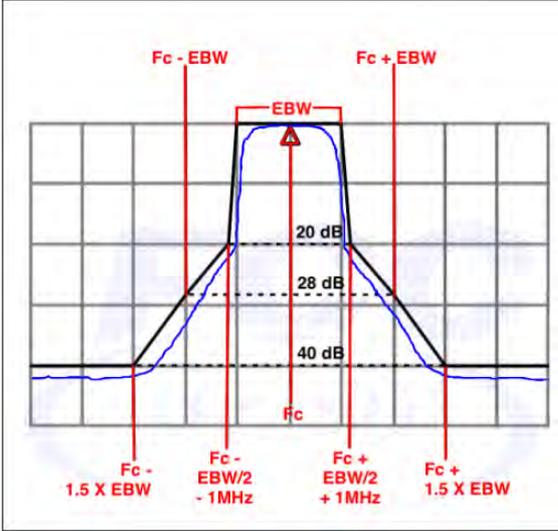
3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/ \text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
 EX. Above 18GHz emission limit calculation (3m to 1m) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	<p>e.i.r.p. -27 dBm [68.2 dBuV/m@3m]</p> <p>Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$. EX. Above 18GHz emission limit calculation (3m to 1m) = $68.2\text{dBuV/m at } 3\text{m} + 9.54\text{dB} = 77.74 \text{ dBuV/m at } 1\text{m}$.</p> <p>Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.</p>
Frequency	Emission MASK Limit
5.945 – 7.125 GHz	<p>Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.</p> <div style="text-align: center;">  </div>



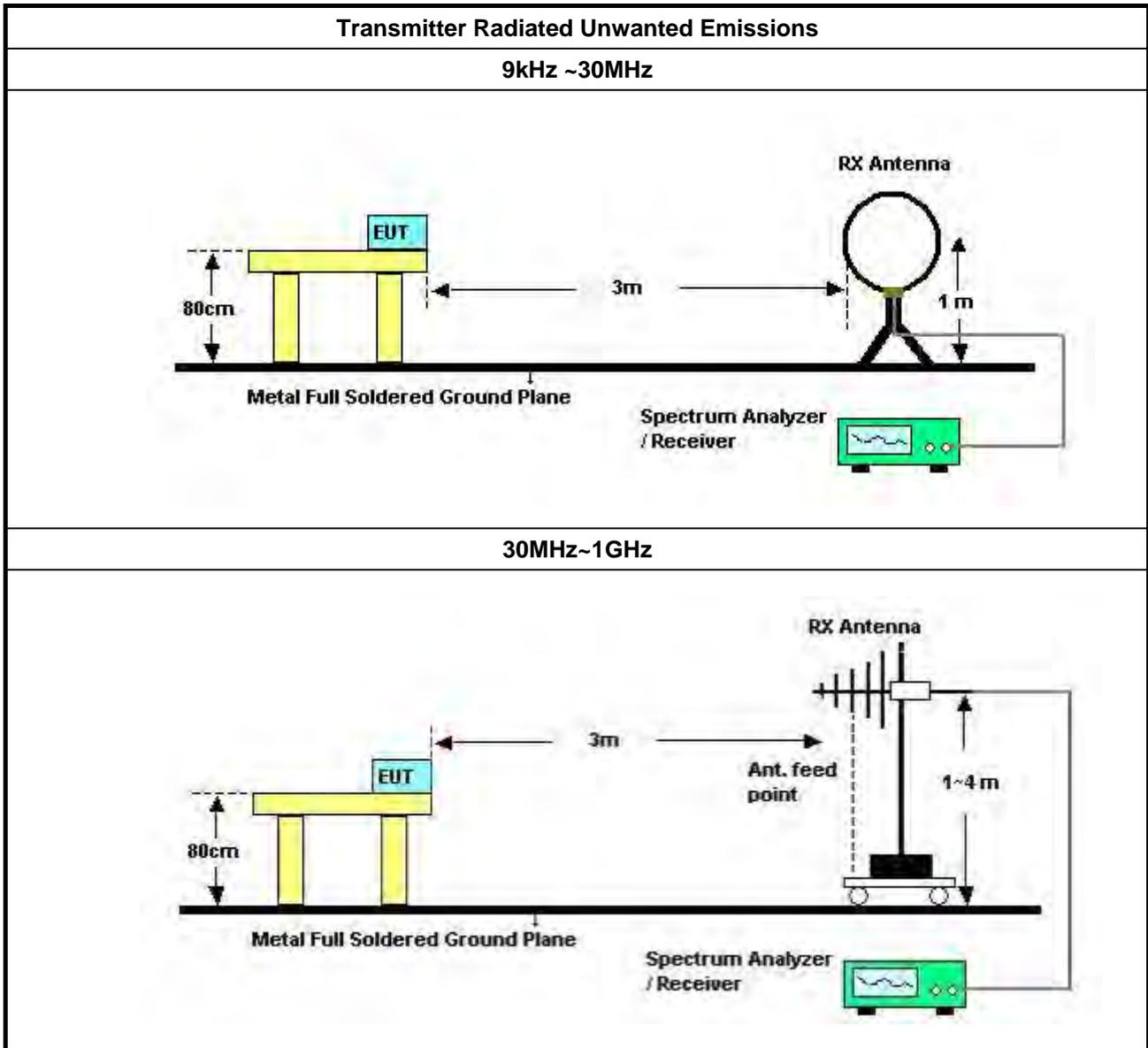
3.5.2 Measuring Instruments

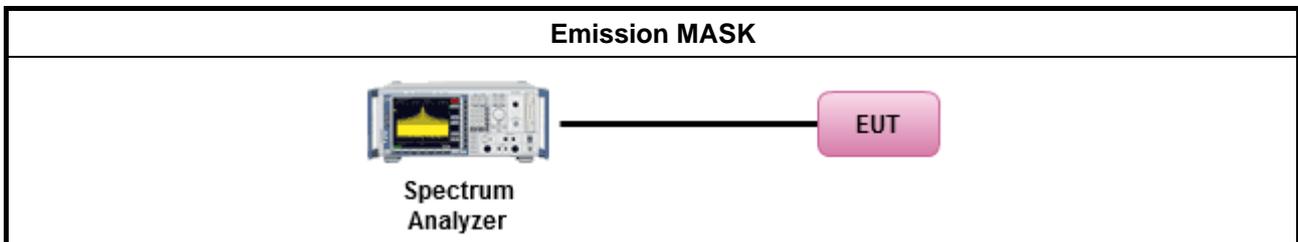
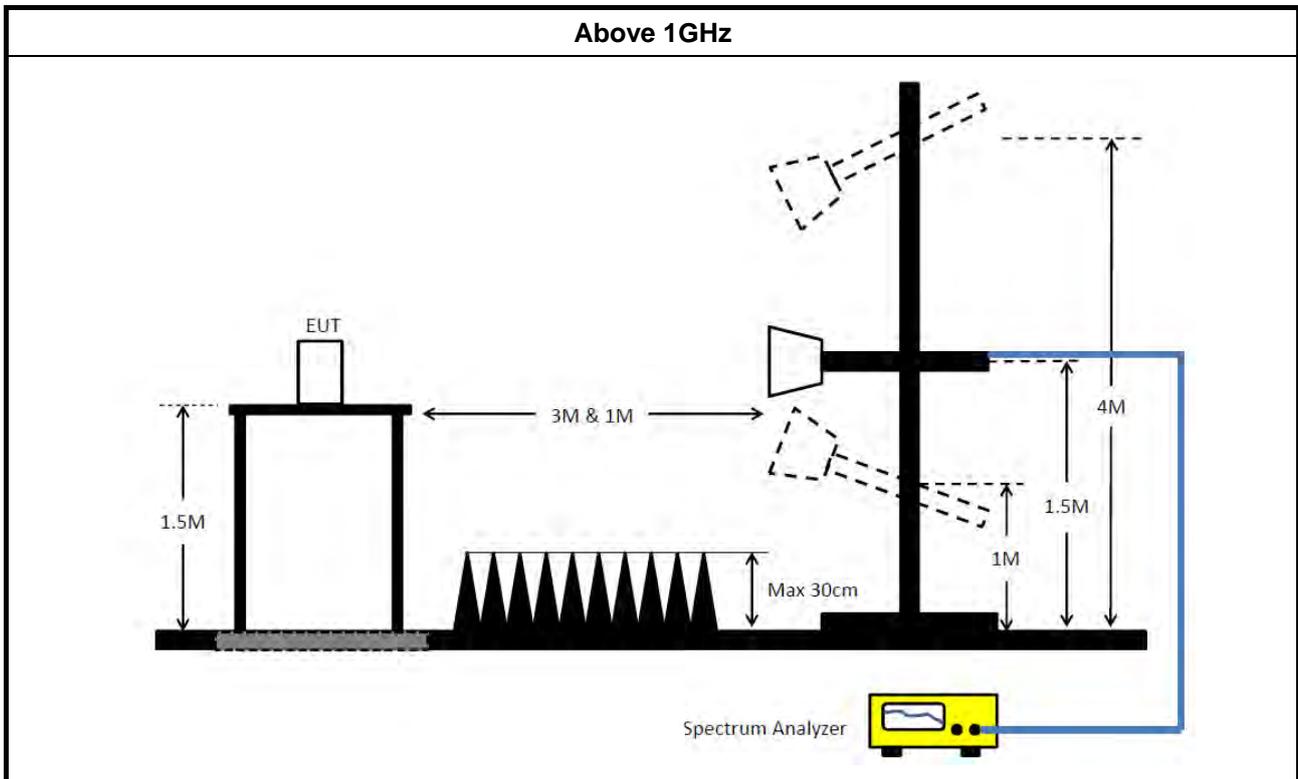
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ According to KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.(For restricted band average measurement)
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For emission MASK shall be measured using following options below: 	
<input checked="" type="checkbox"/>	Refer as FCC draft KDB 987594 D02, J) In-Band Emissions
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

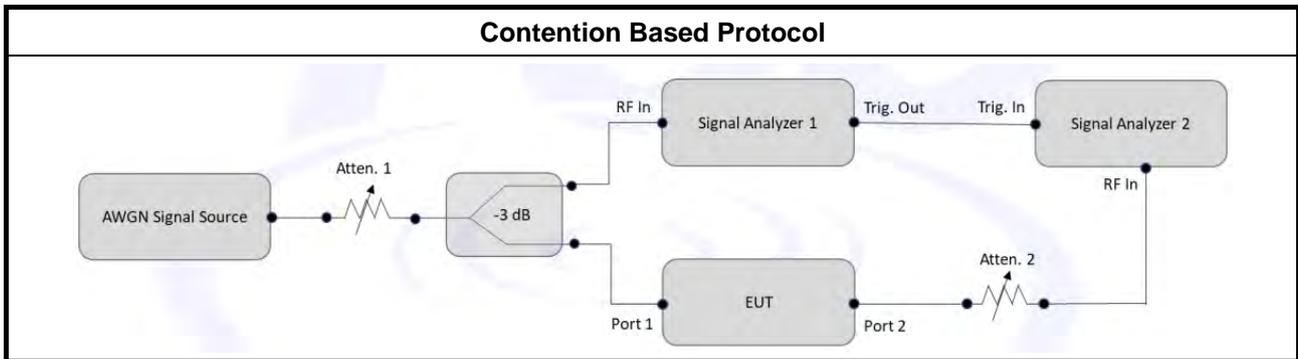
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
<input type="checkbox"/>	For Contention Based Protocol shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC draft KDB 987594 D02, I) In-Band Emissions

3.6.4 Test Setup



3.6.5 Test Result of Contention Based Protocol

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 21, 2020	Sep. 20, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Dec. 01, 2020	Nov. 30, 2021	Conducted (DF01-CB)
VEKTOR SIGNAL GENERATOR	R&S	SMW200A	109426	100KHz-7.5GHz	Dec. 23, 2020	Dec. 22, 2021	Conducted (DF01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Power Divider	STI	2 Way	DV-2way -05	1GHz ~ 8GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Power Divider	STI	2 Way	DV-2way -06	1GHz ~ 8GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Power Divider	MTJ	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-52	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-53	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-54	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-56	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF01-CB)
100MS/s Digitizer	N.I	USB-5133	F65206	N/A	Nov. 15, 2020	Nov. 14, 2021	Conducted (DF01-CB)

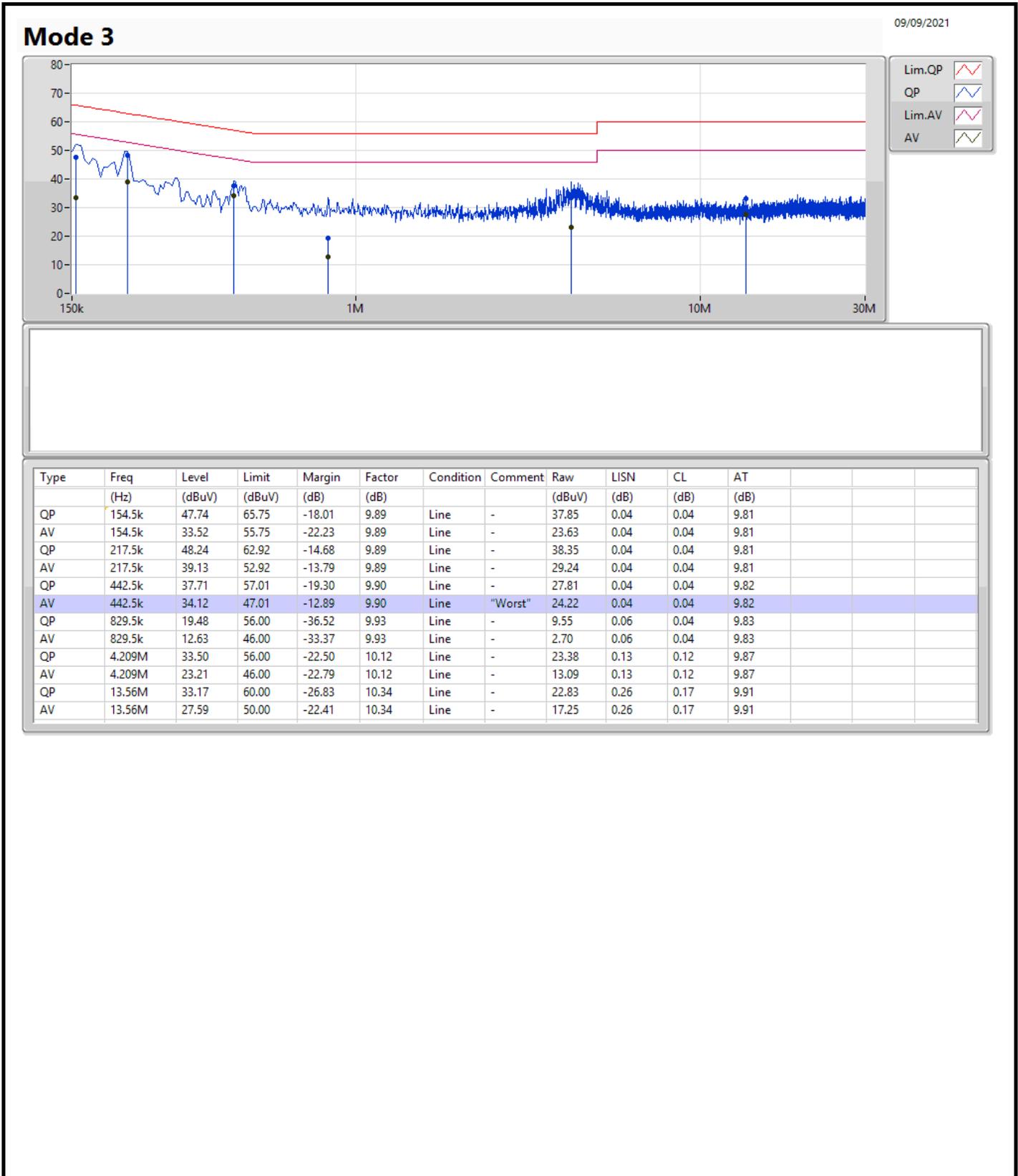
Note: Calibration Interval of instruments listed above is one year.

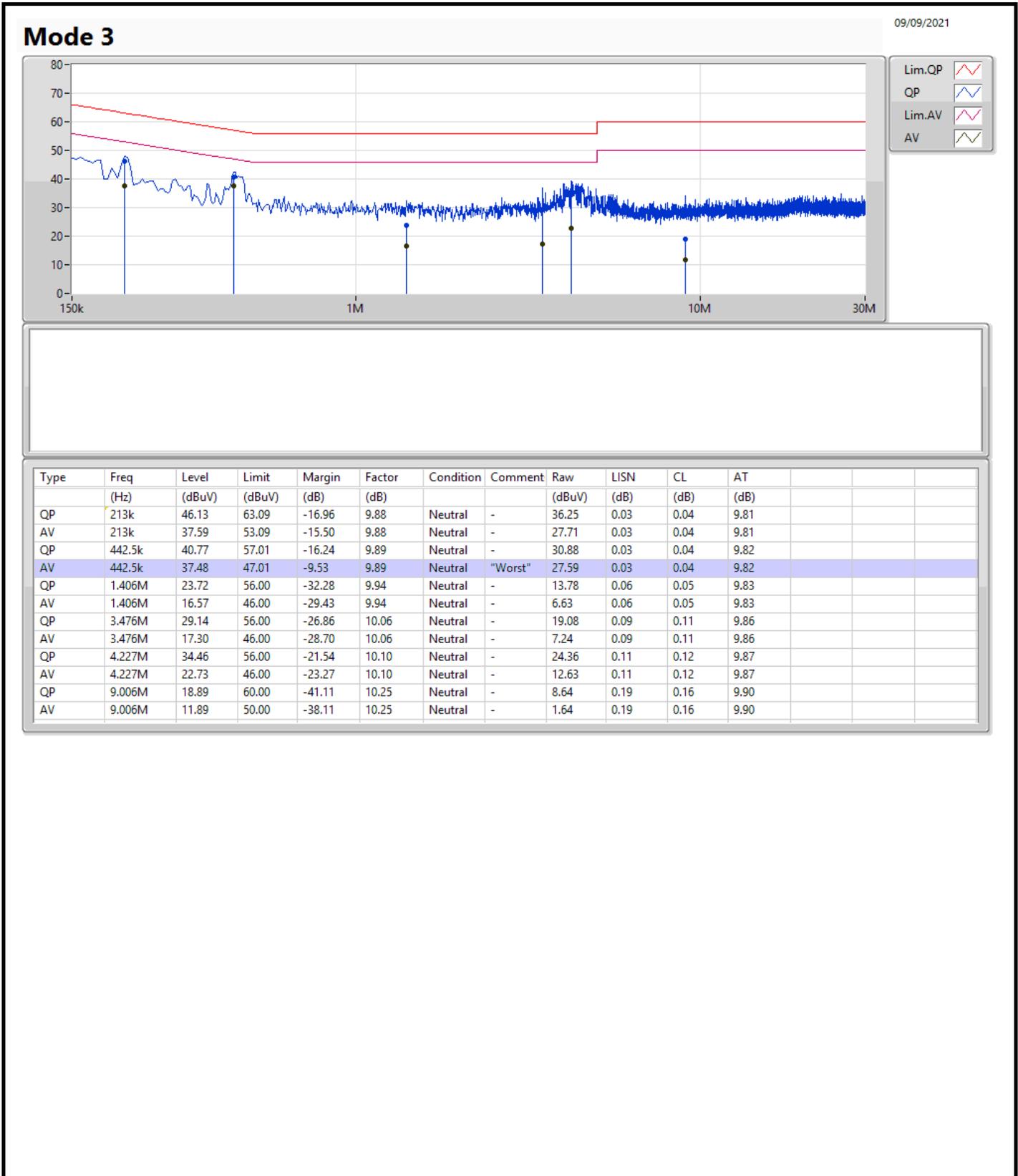
N.C.R. means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	442.5k	37.48	47.01	-9.53	Neutral







Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	264.24M	158.321M	158MD1D	217.68M	157.361M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	242.4M	157.841M	158MD1D	164.16M	157.121M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	262.56M	157.841M	158MD1D	218.64M	157.601M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	244.8M	157.841M	158MD1D	168.24M	157.121M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6185MHz	Pass	Inf	239.28M	158.081M	238.08M	157.601M	217.68M	157.361M	217.92M	157.361M
6345MHz	Pass	Inf	218.16M	158.321M	239.04M	157.601M	264.24M	158.321M	238.32M	157.841M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	226.56M	157.841M	218.16M	157.361M	242.4M	157.601M	164.16M	157.121M
6665MHz	Pass	Inf	262.56M	157.841M	238.56M	157.601M	247.68M	157.601M	218.64M	157.601M
6825MHz Straddle 6.525-6.875GHz										
6825MHz Straddle 6.875-7.125GHz	Pass	Inf	168.24M	157.361M	218.16M	157.361M	243.12M	157.601M	174.96M	157.121M
6985MHz	Pass	Inf	242.4M	157.841M	242.4M	157.601M	244.8M	157.841M	218.16M	157.121M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6185MHz

05/10/2021



802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6345MHz

05/10/2021

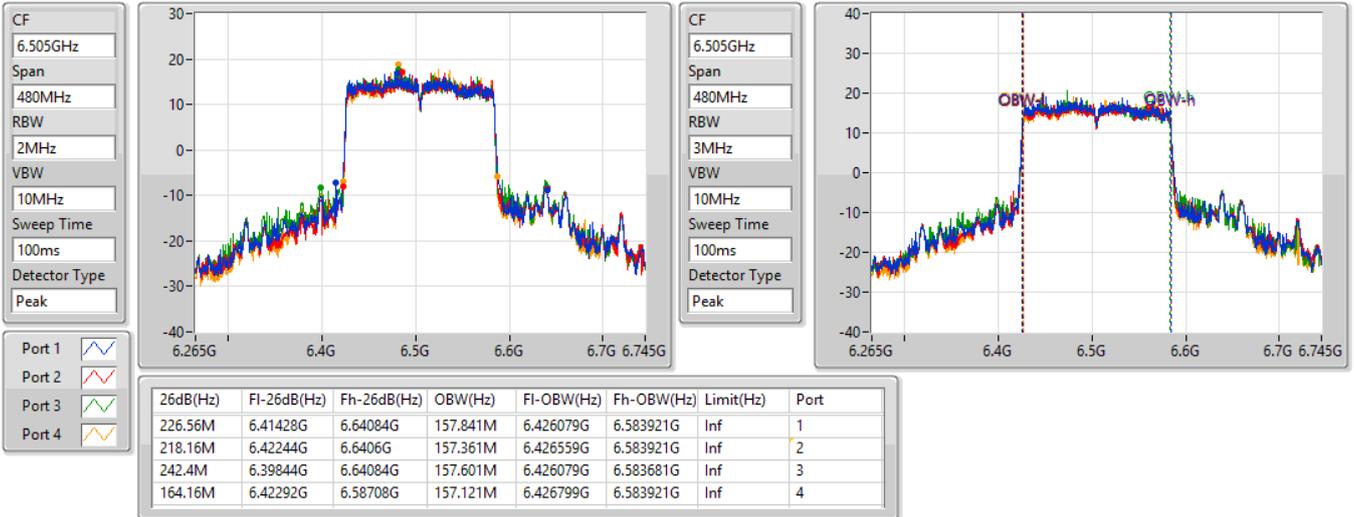


802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6505MHz Straddle 6.425-6.525GHz

05/10/2021

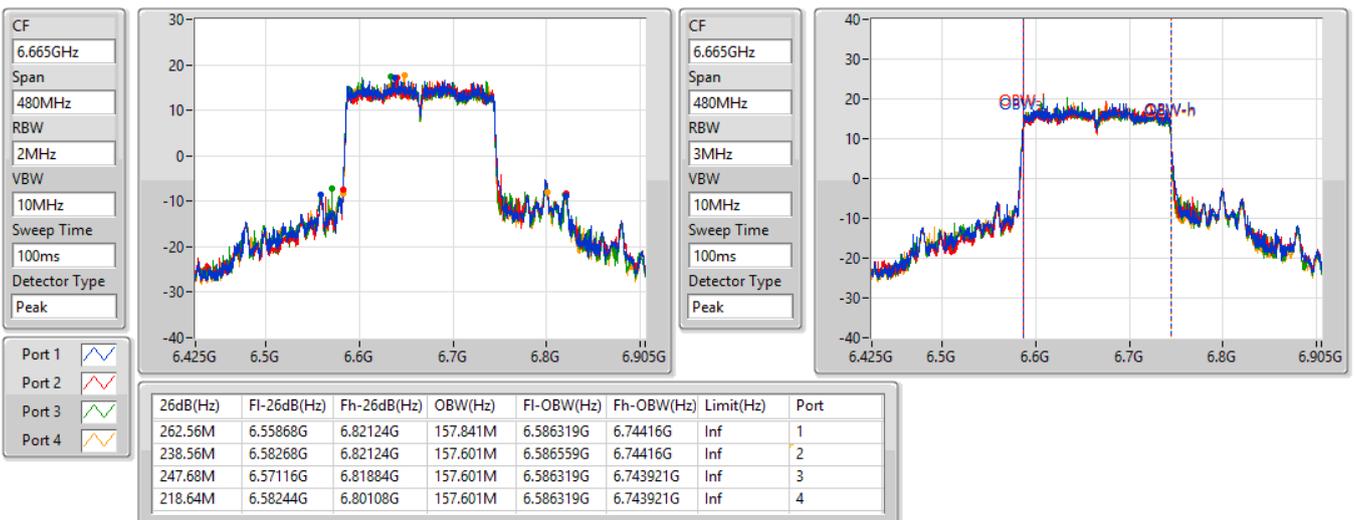


802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6665MHz

05/10/2021

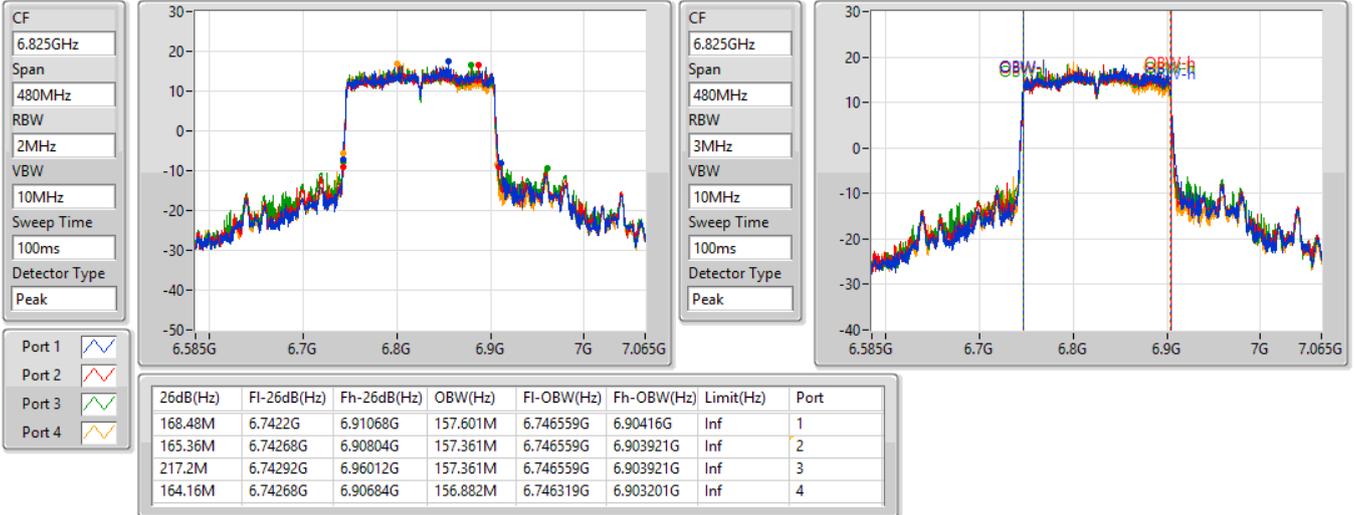


802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6825MHz

05/10/2021

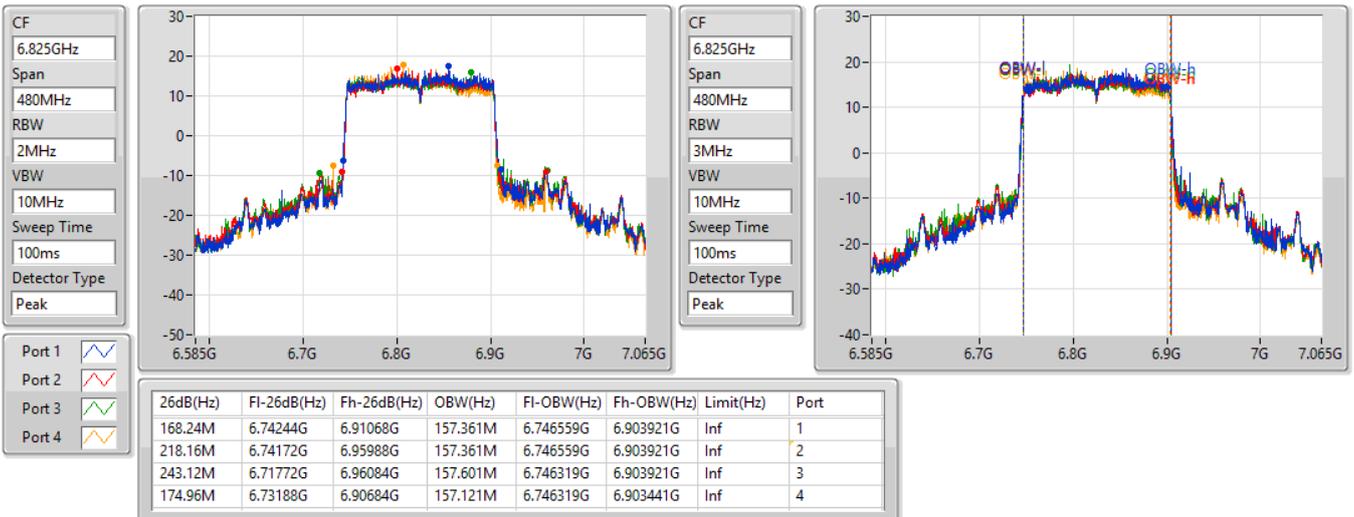


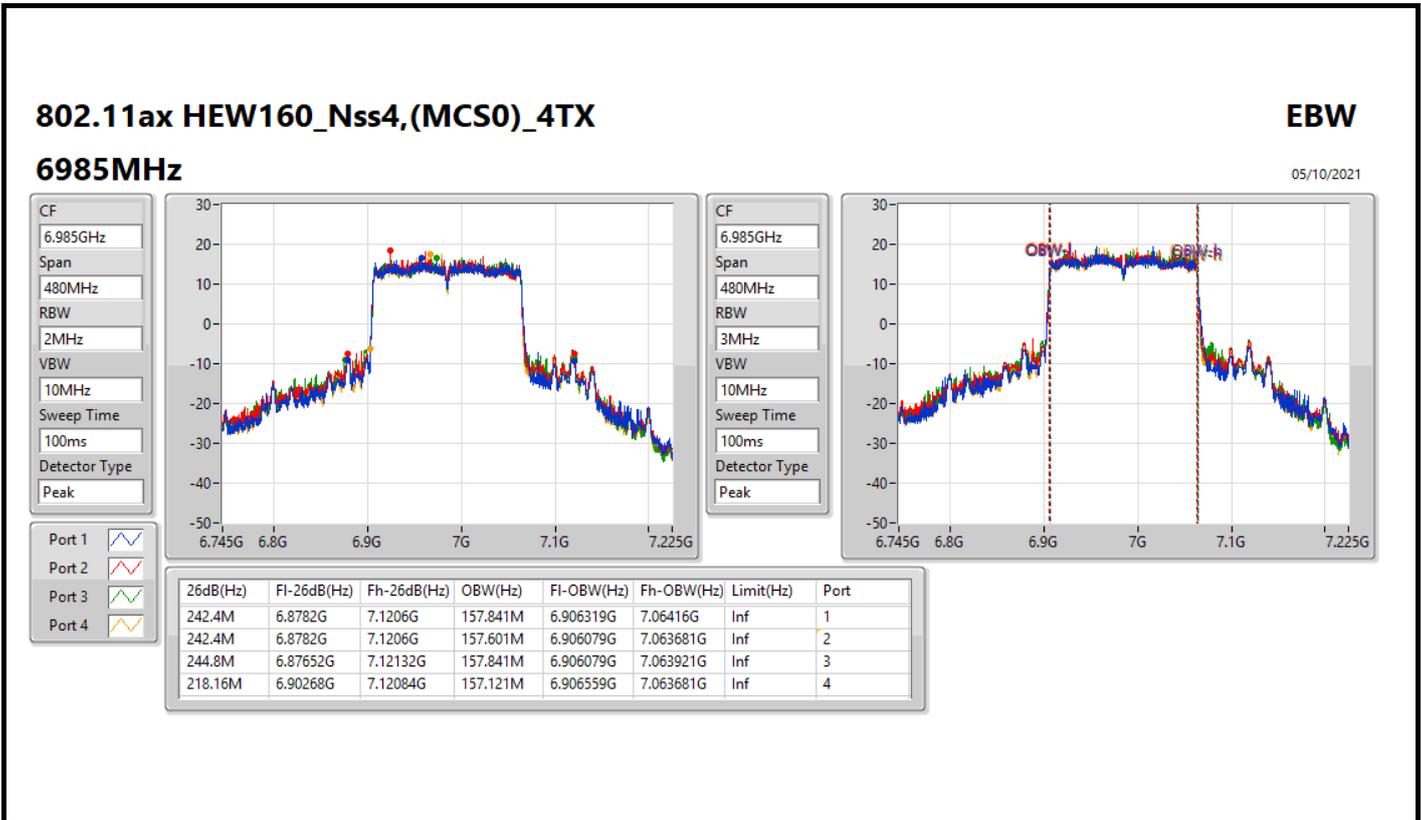
802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

6825MHz Straddle 6.875-7.125GHz

05/10/2021





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.08M	19.31M	19M3D1D	21.93M	19.22M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.18M	38.261M	38M3D1D	41.1M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.72M	78.081M	78M1D1D	82.44M	77.841M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.84M	157.121M	157MD1D	164.88M	156.642M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.04M	19.31M	19M3D1D	22.92M	19.22M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	44.64M	38.261M	38M3D1D	41.52M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	85.56M	78.201M	78M2D1D	22.98M	20.63M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.36M	156.642M	157MD1D	164.4M	156.642M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.08M	19.34M	19M3D1D	22.23M	19.22M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	49.14M	38.261M	38M3D1D	41.28M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	92.76M	78.201M	78M2D1D	81.96M	77.961M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	166.08M	156.882M	157MD1D	164.4M	156.642M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.18M	19.37M	19M4D1D	22.83M	19.19M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.78M	38.321M	38M3D1D	41.64M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.36M	78.201M	78M2D1D	82.68M	77.961M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.36M	156.882M	157MD1D	164.4M	156.642M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6115MHz	Pass	Inf	23.1M	19.22M	25.77M	19.22M	21.93M	19.22M	28.08M	19.31M
6255MHz	Pass	Inf	25.71M	19.28M	24.33M	19.22M	23.49M	19.25M	23.28M	19.22M
6415MHz	Pass	Inf	25.86M	19.25M	22.68M	19.22M	25.35M	19.25M	25.08M	19.22M
6435MHz	Pass	Inf	25.02M	19.28M	24.36M	19.28M	26.94M	19.25M	29.04M	19.28M
6475MHz	Pass	Inf	23.97M	19.22M	22.92M	19.28M	25.83M	19.25M	25.74M	19.22M
6515MHz	Pass	Inf	23.28M	19.31M	25.68M	19.25M	26.73M	19.25M	27.36M	19.25M
6535MHz	Pass	Inf	27M	19.25M	22.86M	19.28M	28.08M	19.22M	27.57M	19.28M
6695MHz	Pass	Inf	25.92M	19.22M	24.06M	19.31M	24.6M	19.22M	22.23M	19.25M
6855MHz	Pass	Inf	27.39M	19.28M	22.65M	19.28M	26.07M	19.25M	26.28M	19.28M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	23.25M	19.31M	25.59M	19.28M	23.1M	19.25M	27.78M	19.34M
6895MHz	Pass	Inf	25.62M	19.37M	26.52M	19.31M	22.83M	19.22M	25.29M	19.28M
6995MHz	Pass	Inf	24.69M	19.25M	23.7M	19.19M	25.89M	19.25M	24.87M	19.28M
7095MHz	Pass	Inf	23.04M	19.25M	23.7M	19.25M	27.18M	19.25M	25.08M	19.25M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6125MHz	Pass	Inf	42.96M	38.141M	41.22M	38.081M	42.24M	38.081M	41.82M	38.081M
6245MHz	Pass	Inf	42M	38.141M	41.58M	38.141M	45.18M	38.261M	41.94M	38.201M
6405MHz	Pass	Inf	42.54M	38.141M	42.9M	38.201M	41.1M	38.141M	42M	38.141M
6445MHz	Pass	Inf	41.52M	38.261M	42.54M	38.141M	43.62M	38.081M	42.3M	38.141M
6485MHz	Pass	Inf	42.54M	38.201M	42.78M	38.201M	44.64M	38.201M	43.56M	38.081M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	42M	38.201M	41.76M	38.141M	41.82M	38.201M	41.88M	38.141M
6565MHz	Pass	Inf	43.08M	38.141M	43.68M	38.081M	43.44M	38.201M	46.02M	38.141M
6685MHz	Pass	Inf	42.84M	38.141M	41.28M	38.081M	42.6M	38.261M	42.42M	38.141M
6845MHz	Pass	Inf	43.44M	38.201M	41.58M	38.141M	43.32M	38.201M	42M	38.141M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	42.12M	38.081M	42.84M	38.081M	42.54M	38.261M	49.14M	38.141M
6925MHz	Pass	Inf	42.6M	38.141M	42.3M	38.081M	42.24M	38.321M	42.6M	38.201M
7005MHz	Pass	Inf	42.9M	38.201M	43.32M	38.201M	45.24M	38.261M	42.42M	38.261M
7085MHz	Pass	Inf	41.64M	38.141M	41.88M	38.141M	43.14M	38.081M	45.78M	38.141M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6145MHz	Pass	Inf	82.8M	77.961M	83.4M	77.841M	83.64M	78.081M	82.68M	77.961M
6225MHz	Pass	Inf	84.96M	77.961M	82.68M	77.961M	86.52M	78.081M	83.04M	78.081M
6385MHz	Pass	Inf	84.84M	77.961M	82.44M	77.961M	87.72M	77.961M	83.52M	78.081M
6465MHz	Pass	Inf	85.56M	78.081M	82.56M	78.081M	83.28M	78.201M	84.12M	77.961M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	33.78M	21.649M	25.8M	20.93M	23.22M	20.93M	22.98M	20.63M
6625MHz	Pass	Inf	88.32M	77.961M	92.76M	78.081M	89.28M	78.081M	86.88M	78.081M
6705MHz	Pass	Inf	84.12M	78.201M	85.08M	77.961M	81.96M	77.961M	89.88M	77.961M
6785MHz	Pass	Inf	82.56M	78.081M	91.08M	78.081M	86.88M	78.081M	85.68M	78.081M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	84.36M	77.961M	82.8M	77.961M	85.56M	78.081M	92.04M	78.201M
6945MHz	Pass	Inf	83.4M	78.081M	82.92M	77.961M	83.52M	78.201M	82.8M	78.081M
7025MHz	Pass	Inf	87M	78.201M	82.68M	77.961M	87.36M	77.961M	84.36M	77.961M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6185MHz	Pass	Inf	165.12M	156.882M	165.36M	156.642M	165.84M	156.882M	165.12M	156.882M
6345MHz	Pass	Inf	165.36M	156.882M	164.88M	156.882M	165.12M	156.642M	165.12M	157.121M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	165.36M	156.642M	165.36M	156.642M	164.64M	156.642M	164.4M	156.642M
6665MHz	Pass	Inf	165.12M	156.882M	164.88M	156.882M	165.12M	156.882M	165.12M	156.642M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	164.4M	156.642M	164.88M	156.882M	166.08M	156.882M	164.4M	156.642M
6985MHz	Pass	Inf	165.36M	156.882M	165.12M	156.642M	165.12M	156.882M	164.4M	156.642M

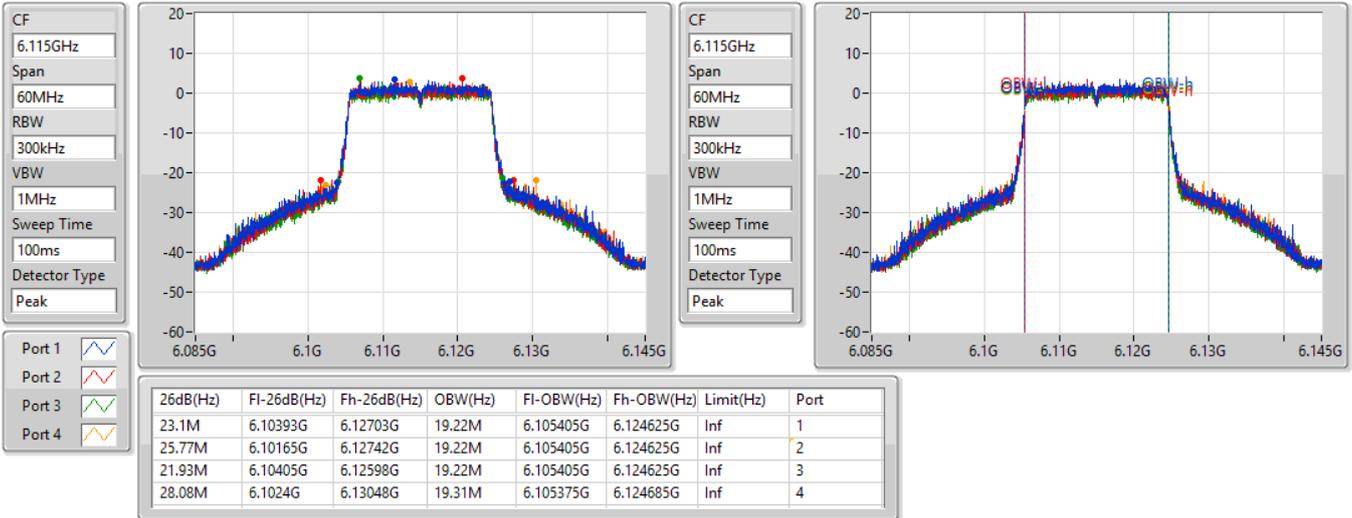
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6115MHz

06/10/2021

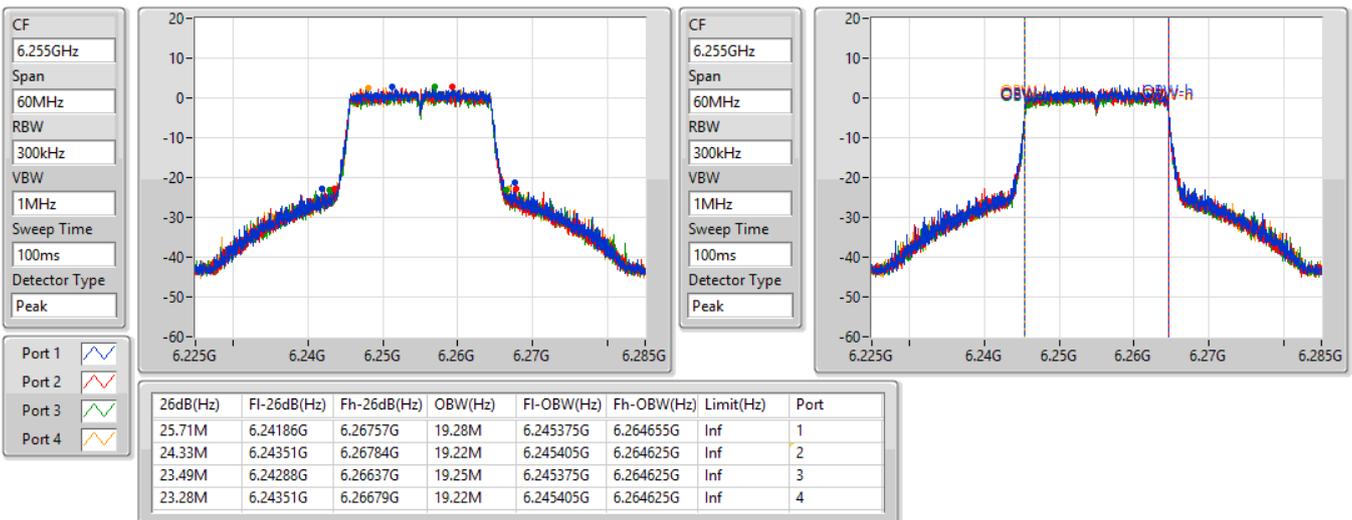


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6255MHz

06/10/2021



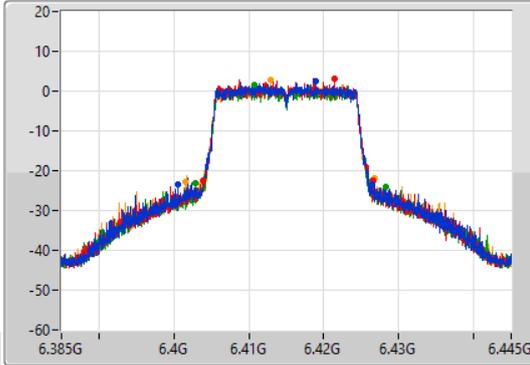
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

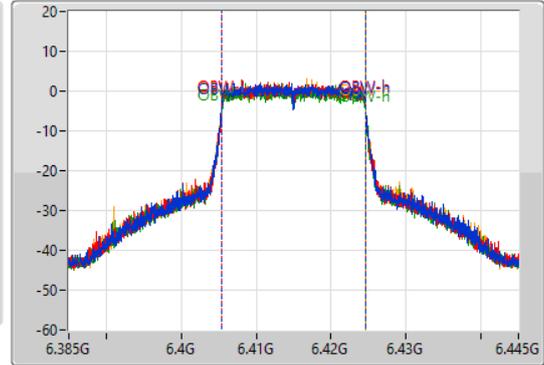
6415MHz

06/10/2021

CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.86M	6.40057G	6.42643G	19.25M	6.405375G	6.424625G	Inf	1
22.68M	6.40393G	6.42661G	19.22M	6.405405G	6.424625G	Inf	2
25.35M	6.40291G	6.42826G	19.25M	6.405375G	6.424625G	Inf	3
25.08M	6.40162G	6.4267G	19.22M	6.405375G	6.424595G	Inf	4

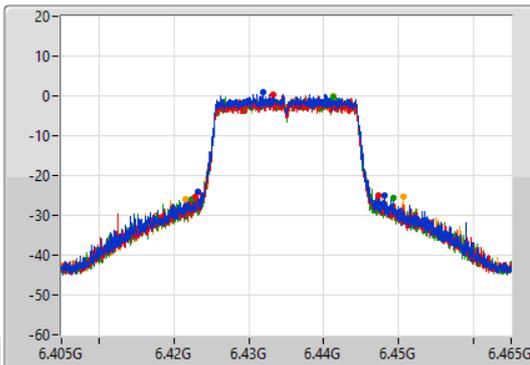
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

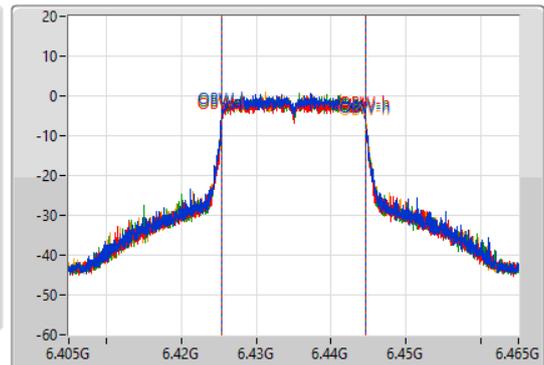
6435MHz

06/10/2021

CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.02M	6.42318G	6.4482G	19.28M	6.425345G	6.444625G	Inf	1
24.36M	6.42288G	6.44724G	19.28M	6.425345G	6.444625G	Inf	2
26.94M	6.42234G	6.44928G	19.25M	6.425375G	6.444625G	Inf	3
29.04M	6.42159G	6.45063G	19.28M	6.425375G	6.444655G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6475MHz

06/10/2021

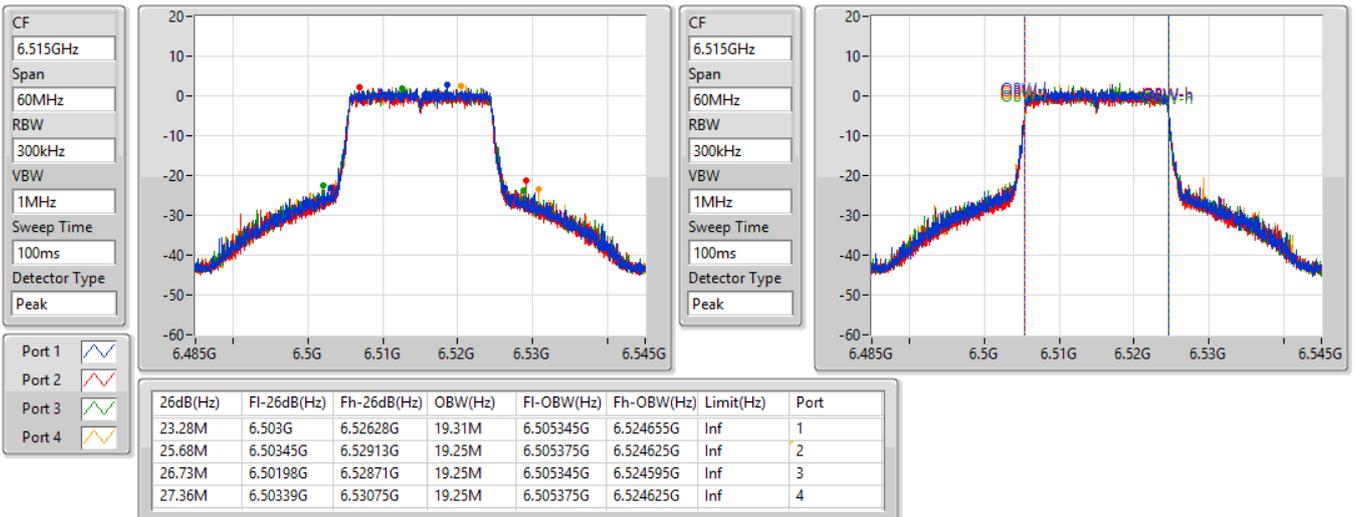


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6515MHz

06/10/2021



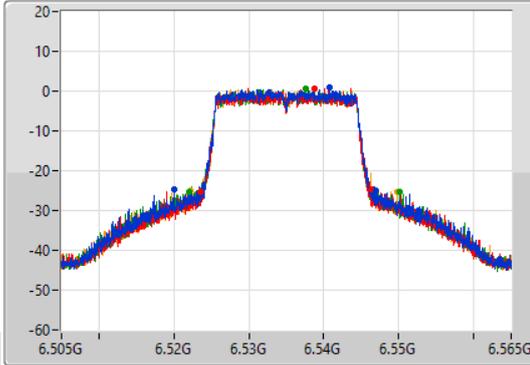
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

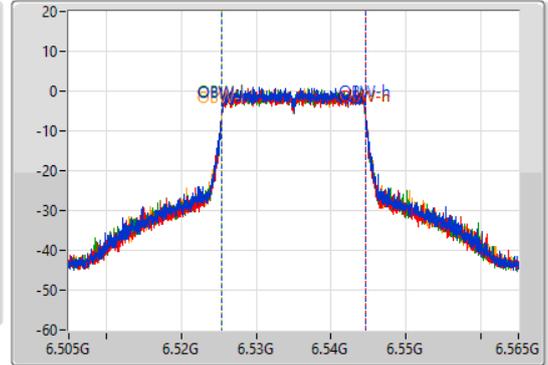
6535MHz

06/10/2021

CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27M	6.51997G	6.54697G	19.25M	6.525375G	6.544625G	Inf	1
22.86M	6.52357G	6.54643G	19.28M	6.525345G	6.544625G	Inf	2
28.08M	6.5221G	6.55018G	19.22M	6.525375G	6.544595G	Inf	3
27.57M	6.52216G	6.54973G	19.28M	6.525375G	6.544655G	Inf	4

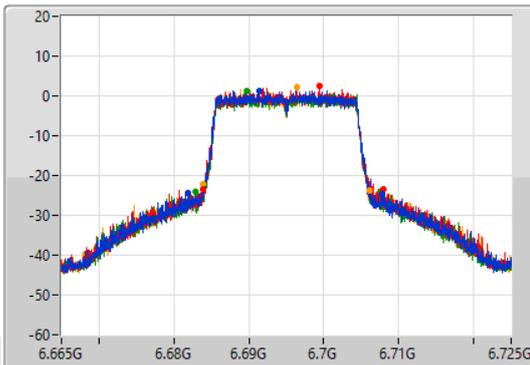
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

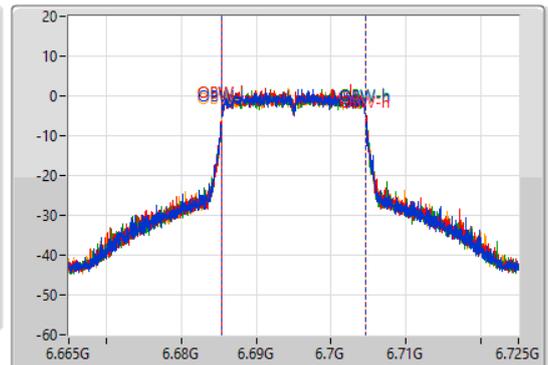
6695MHz

06/10/2021

CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.92M	6.6818G	6.70772G	19.22M	6.685405G	6.704625G	Inf	1
24.06M	6.68393G	6.70799G	19.31M	6.685345G	6.704655G	Inf	2
24.6M	6.68294G	6.70754G	19.22M	6.685405G	6.704625G	Inf	3
22.23M	6.68384G	6.70607G	19.25M	6.685375G	6.704625G	Inf	4

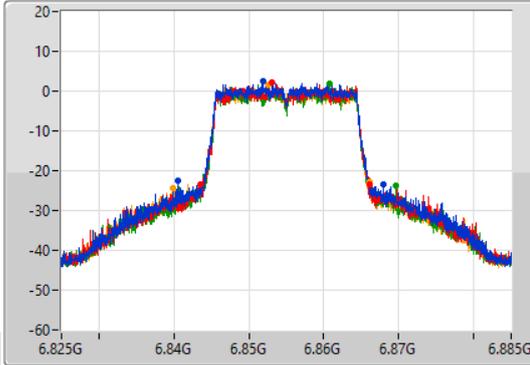
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

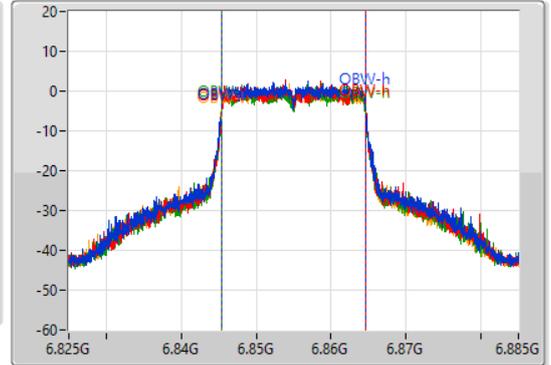
6855MHz

06/10/2021

CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.39M	6.84054G	6.86793G	19.28M	6.845345G	6.864625G	Inf	1
22.65M	6.84351G	6.86616G	19.28M	6.845405G	6.864685G	Inf	2
26.07M	6.84354G	6.86961G	19.25M	6.845345G	6.864595G	Inf	3
26.28M	6.83985G	6.86613G	19.28M	6.845315G	6.864595G	Inf	4

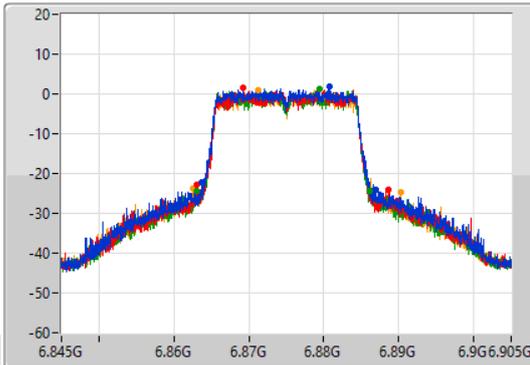
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

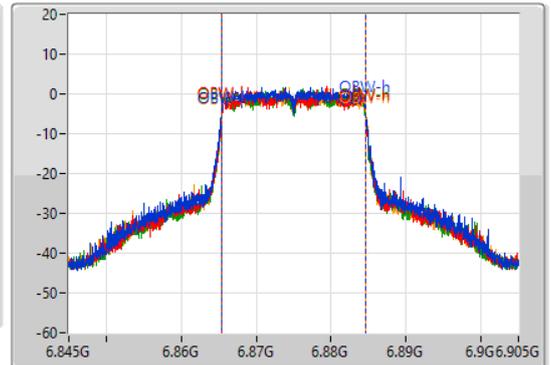
6875MHz Straddle 6.525-6.875GHz

06/10/2021

CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.25M	6.86369G	6.88694G	19.31M	6.865345G	6.884655G	Inf	1
25.59M	6.86309G	6.88868G	19.28M	6.865375G	6.884655G	Inf	2
23.1M	6.86306G	6.88616G	19.25M	6.865375G	6.884625G	Inf	3
27.78M	6.86258G	6.89036G	19.34M	6.865345G	6.884685G	Inf	4

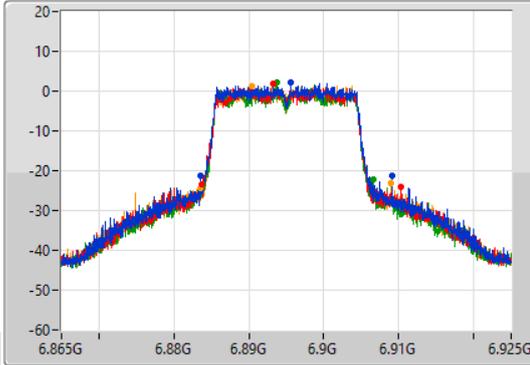
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

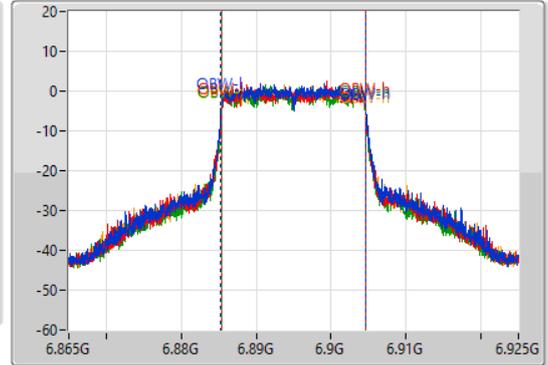
6895MHz

06/10/2021

CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.62M	6.88348G	6.9091G	19.37M	6.885285G	6.904655G	Inf	1
26.52M	6.88372G	6.91024G	19.31M	6.885375G	6.904685G	Inf	2
22.83M	6.88381G	6.90664G	19.22M	6.885375G	6.904595G	Inf	3
25.29M	6.88363G	6.90892G	19.28M	6.885375G	6.904655G	Inf	4

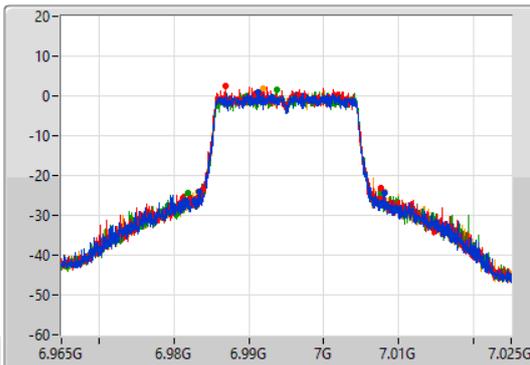
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

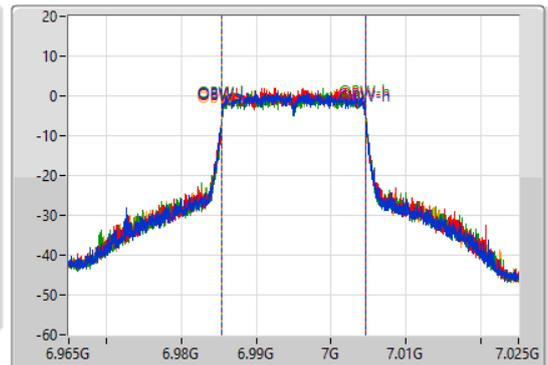
6995MHz

06/10/2021

CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.69M	6.98339G	7.00808G	19.25M	6.985375G	7.004625G	Inf	1
23.7M	6.98384G	7.00754G	19.19M	6.985405G	7.004595G	Inf	2
25.89M	6.9818G	7.00769G	19.25M	6.985405G	7.004655G	Inf	3
24.87M	6.98321G	7.00808G	19.28M	6.985375G	7.004655G	Inf	4

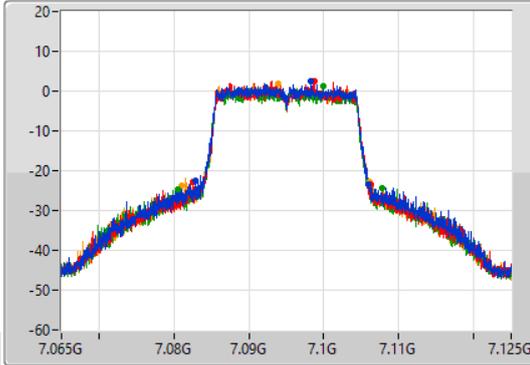
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

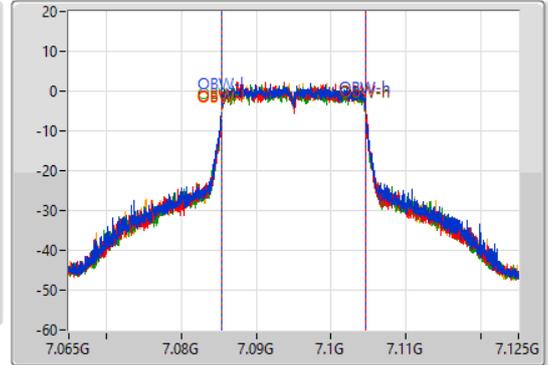
7095MHz

06/10/2021

CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.04M	7.08291G	7.10595G	19.25M	7.085345G	7.104595G	Inf	1
23.7M	7.08252G	7.10622G	19.25M	7.085375G	7.104625G	Inf	2
27.18M	7.08054G	7.10772G	19.25M	7.085345G	7.104595G	Inf	3
25.08M	7.08108G	7.10616G	19.25M	7.085345G	7.104595G	Inf	4

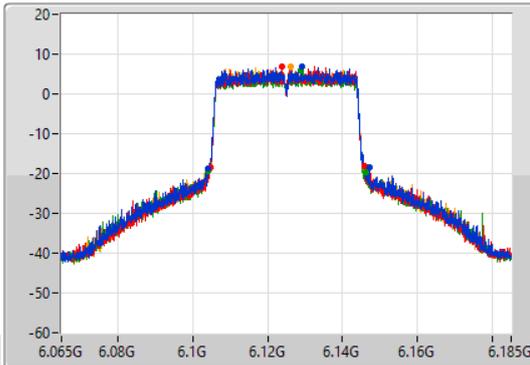
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

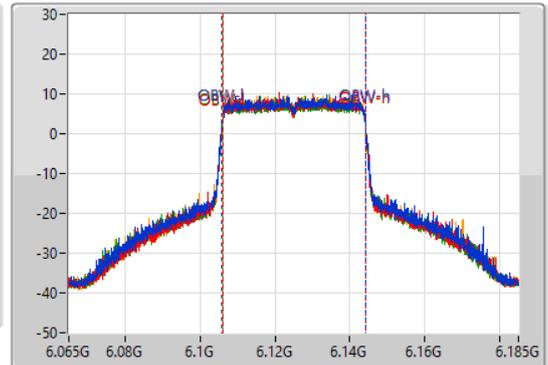
6125MHz

06/10/2021

CF
6.125GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.125GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.96M	6.10418G	6.14714G	38.141M	6.10593G	6.14407G	Inf	1
41.22M	6.10466G	6.14588G	38.081M	6.10599G	6.14407G	Inf	2
42.24M	6.104G	6.14624G	38.081M	6.106049G	6.14413G	Inf	3
41.82M	6.10442G	6.14624G	38.081M	6.10599G	6.14407G	Inf	4

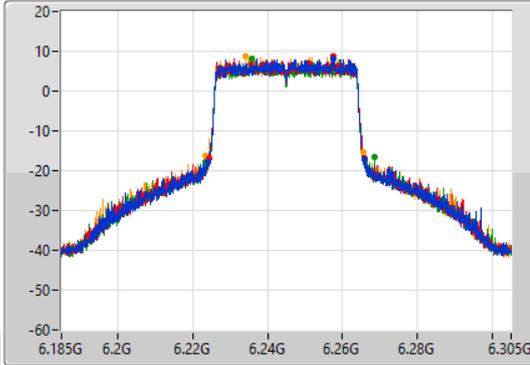
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

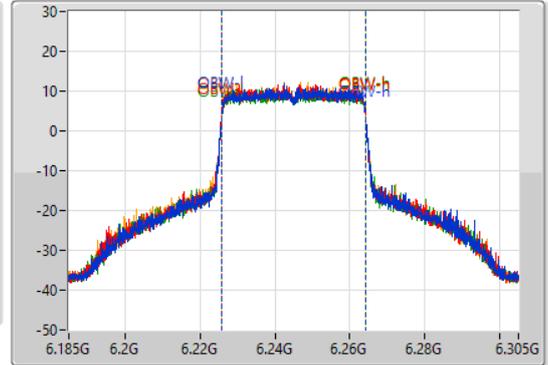
6245MHz

06/10/2021

CF
6.245GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.245GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42M	6.224G	6.266G	38.141M	6.22593G	6.26407G	Inf	1
41.58M	6.22442G	6.266G	38.141M	6.22593G	6.26407G	Inf	2
45.18M	6.22328G	6.26846G	38.261M	6.22587G	6.26413G	Inf	3
41.94M	6.22358G	6.26552G	38.201M	6.22593G	6.26413G	Inf	4

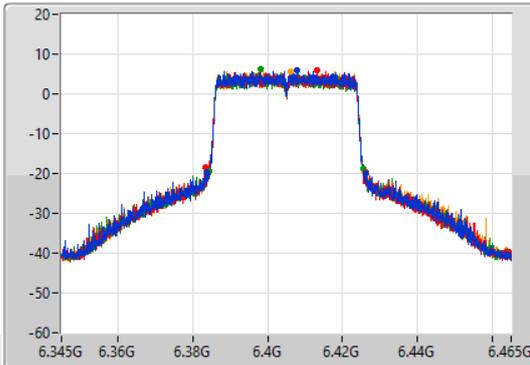
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

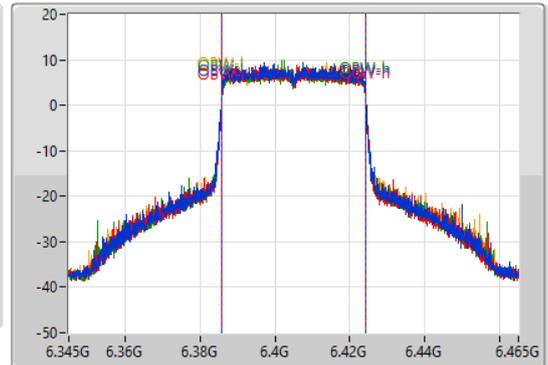
6405MHz

06/10/2021

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.54M	6.38376G	6.4263G	38.141M	6.38593G	6.42407G	Inf	1
42.9M	6.38328G	6.42618G	38.201M	6.38587G	6.42407G	Inf	2
41.1M	6.38436G	6.42546G	38.141M	6.38593G	6.42407G	Inf	3
42M	6.38388G	6.42588G	38.141M	6.38593G	6.42407G	Inf	4

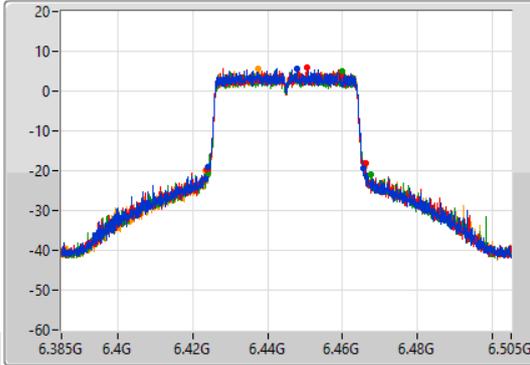
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

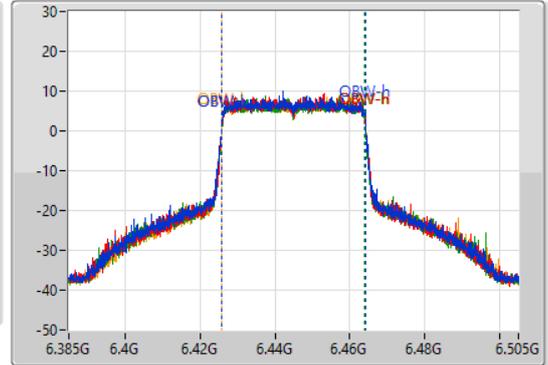
6445MHz

06/10/2021

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.52M	6.42412G	6.46564G	38.261M	6.42587G	6.46413G	Inf	1
42.54M	6.42364G	6.46618G	38.141M	6.42593G	6.46407G	Inf	2
43.62M	6.42406G	6.46768G	38.081M	6.42593G	6.46401G	Inf	3
42.3M	6.42352G	6.46582G	38.141M	6.42593G	6.46407G	Inf	4

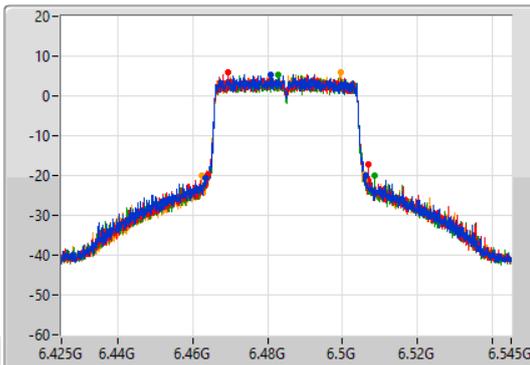
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

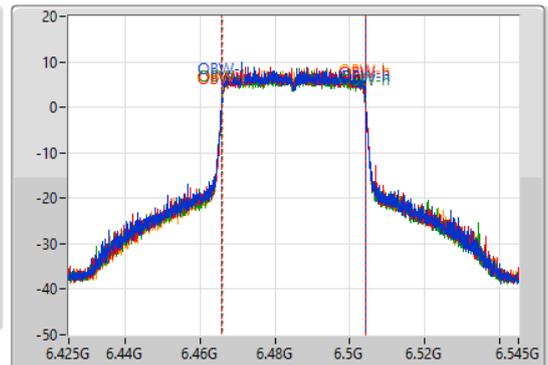
6485MHz

06/10/2021

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.54M	6.46358G	6.50612G	38.201M	6.46587G	6.50407G	Inf	1
42.78M	6.46424G	6.50702G	38.201M	6.46593G	6.50413G	Inf	2
44.64M	6.46394G	6.50858G	38.201M	6.46593G	6.50413G	Inf	3
43.56M	6.46232G	6.50588G	38.081M	6.46599G	6.50407G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6525MHz Straddle 6.425-6.525GHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6565MHz

06/10/2021

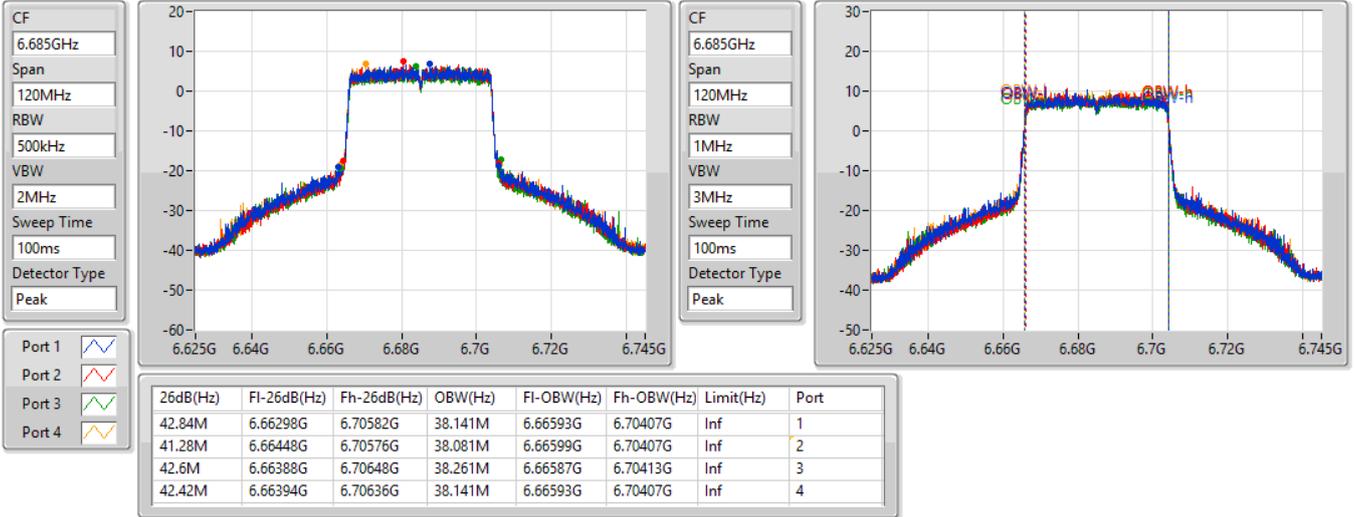


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6685MHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6845MHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6885MHz Straddle 6.525-6.875GHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6925MHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

7005MHz

06/10/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

7085MHz

06/10/2021



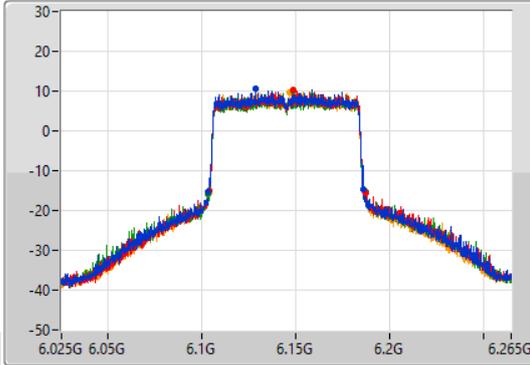
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

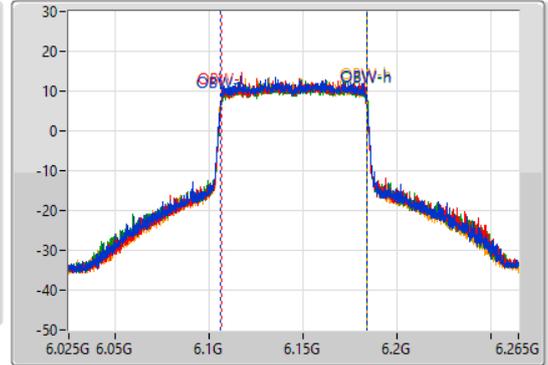
6145MHz

06/10/2021

CF
6.145GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.145GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.8M	6.10348G	6.18628G	77.961M	6.106019G	6.183981G	Inf	1
83.4M	6.10372G	6.18712G	77.841M	6.106259G	6.1841G	Inf	2
83.64M	6.10348G	6.18712G	78.081M	6.106139G	6.18422G	Inf	3
82.68M	6.10384G	6.18652G	77.961M	6.106019G	6.183981G	Inf	4

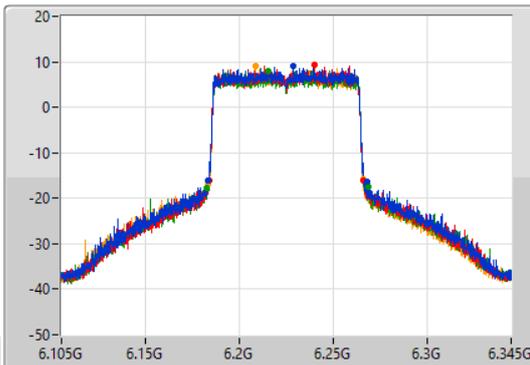
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

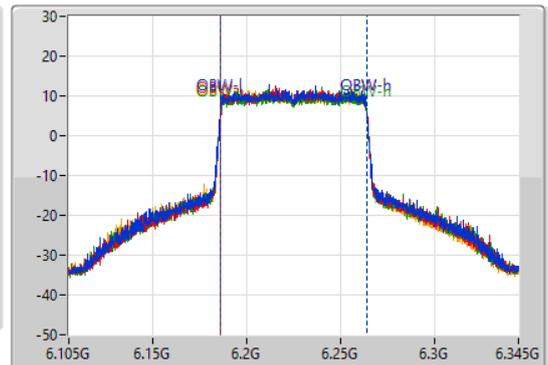
6225MHz

06/10/2021

CF
6.225GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.225GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.96M	6.183G	6.26796G	77.961M	6.186019G	6.263981G	Inf	1
82.68M	6.1836G	6.26628G	77.961M	6.186139G	6.2641G	Inf	2
86.52M	6.18228G	6.2688G	78.081M	6.186019G	6.2641G	Inf	3
83.04M	6.18312G	6.26616G	78.081M	6.1859G	6.263981G	Inf	4

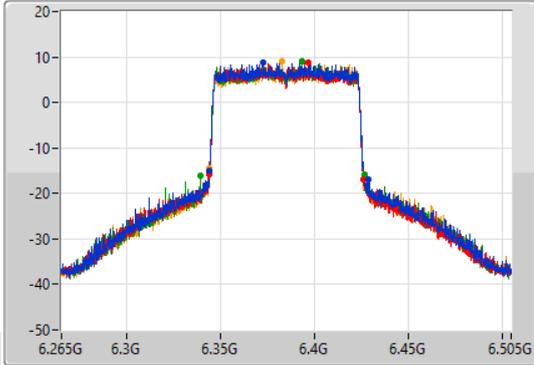
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

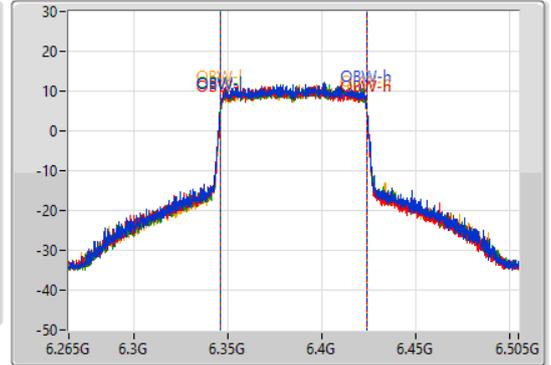
6385MHz

06/10/2021

CF
6.385GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.385GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.84M	6.34372G	6.42856G	77.961M	6.346019G	6.423981G	Inf	1
82.44M	6.3436G	6.42604G	77.961M	6.3459G	6.423861G	Inf	2
87.72M	6.33892G	6.42664G	77.961M	6.346019G	6.423981G	Inf	3
83.52M	6.34396G	6.42748G	78.081M	6.3459G	6.423981G	Inf	4

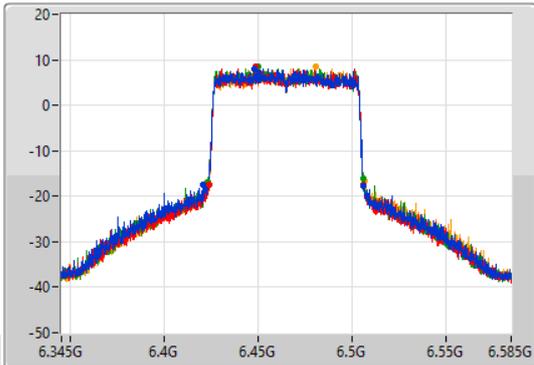
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

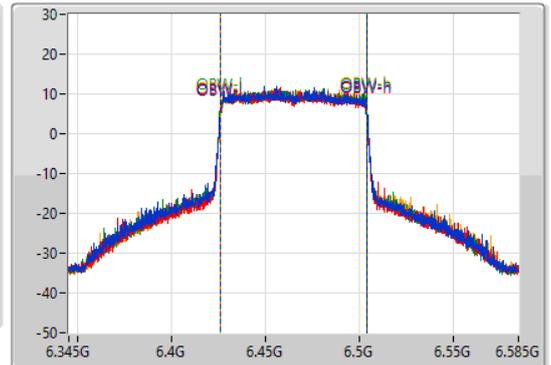
6465MHz

06/10/2021

CF
6.465GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.465GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
85.56M	6.42084G	6.5064G	78.081M	6.4259G	6.503981G	Inf	1
82.56M	6.42384G	6.5064G	78.081M	6.4259G	6.503981G	Inf	2
83.28M	6.42312G	6.5064G	78.201M	6.4259G	6.5041G	Inf	3
84.12M	6.42288G	6.507G	77.961M	6.426019G	6.503981G	Inf	4

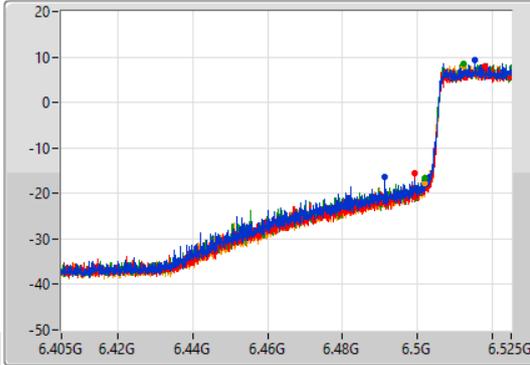
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

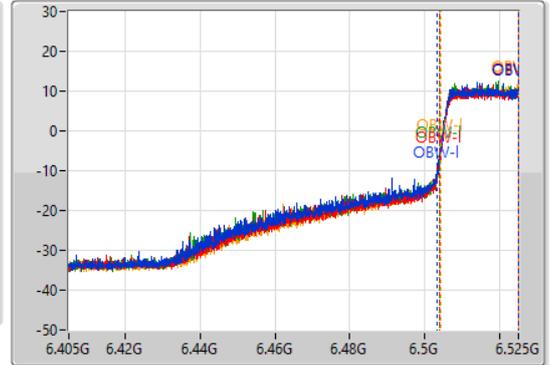
6545MHz Straddle 6.425-6.525GHz

06/10/2021

CF
6.465GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.465GHz
Span
120MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.78M	6.49122G	6.525G	21.649M	6.503261G	6.52491G	Inf	1
25.8M	6.4992G	6.525G	20.93M	6.503981G	6.52491G	Inf	2
23.22M	6.50178G	6.525G	20.93M	6.503981G	6.52491G	Inf	3
22.98M	6.50202G	6.525G	20.63M	6.50428G	6.52491G	Inf	4

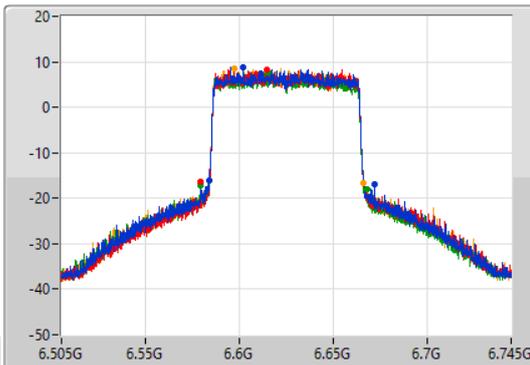
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

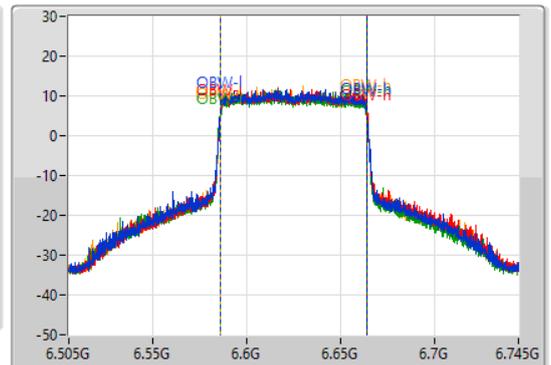
6625MHz

06/10/2021

CF
6.625GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.625GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

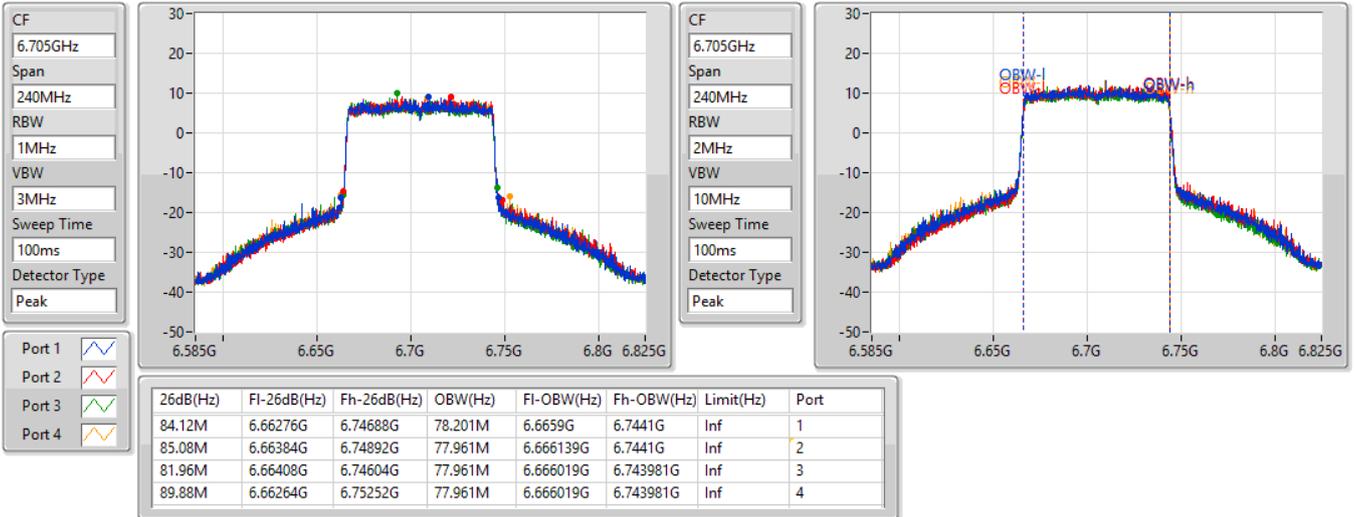
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
88.32M	6.5836G	6.67192G	77.961M	6.586019G	6.663981G	Inf	1
92.76M	6.57928G	6.67204G	78.081M	6.586019G	6.6641G	Inf	2
89.28M	6.57892G	6.6682G	78.081M	6.58578G	6.663861G	Inf	3
86.88M	6.5794G	6.66628G	78.081M	6.5859G	6.663981G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6705MHz

06/10/2021

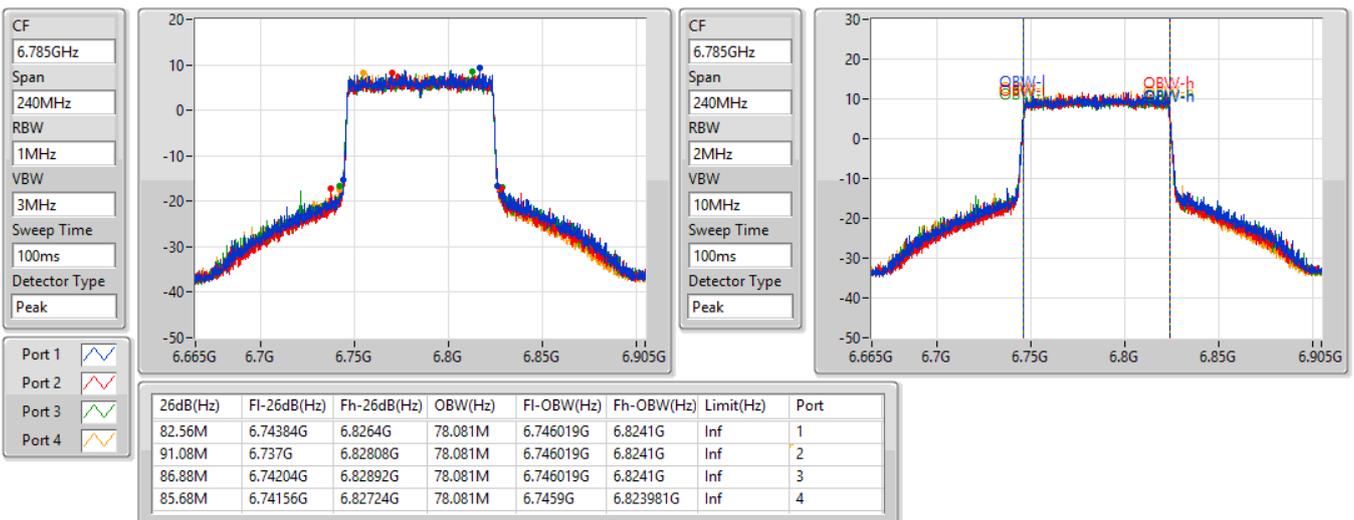


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6785MHz

06/10/2021



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6865MHz Straddle 6.525-6.875GHz

06/10/2021

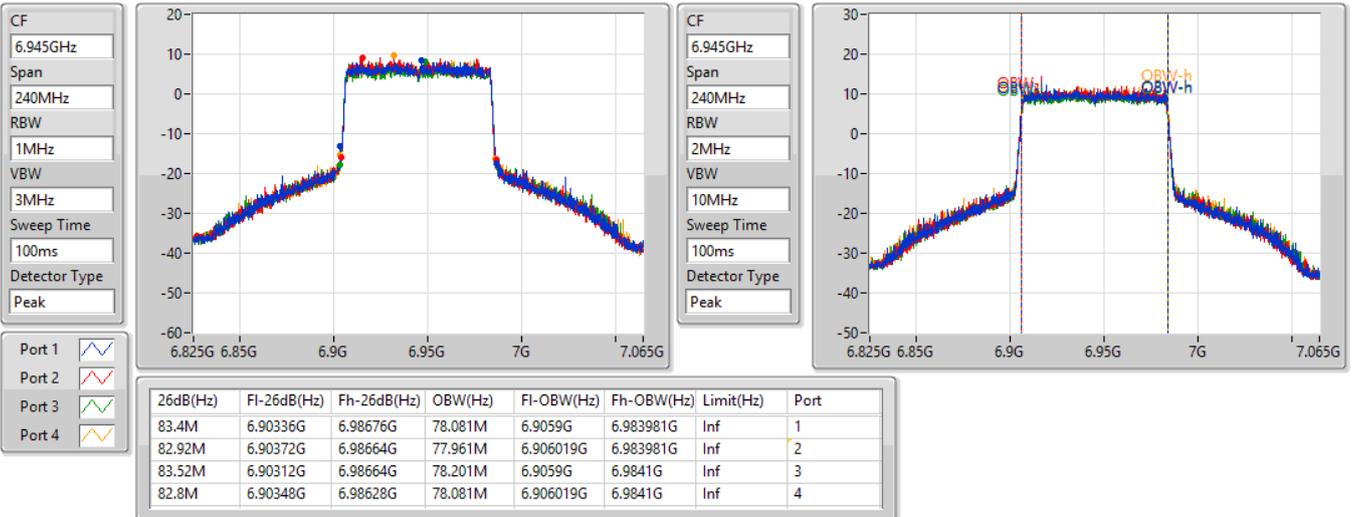


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6945MHz

06/10/2021

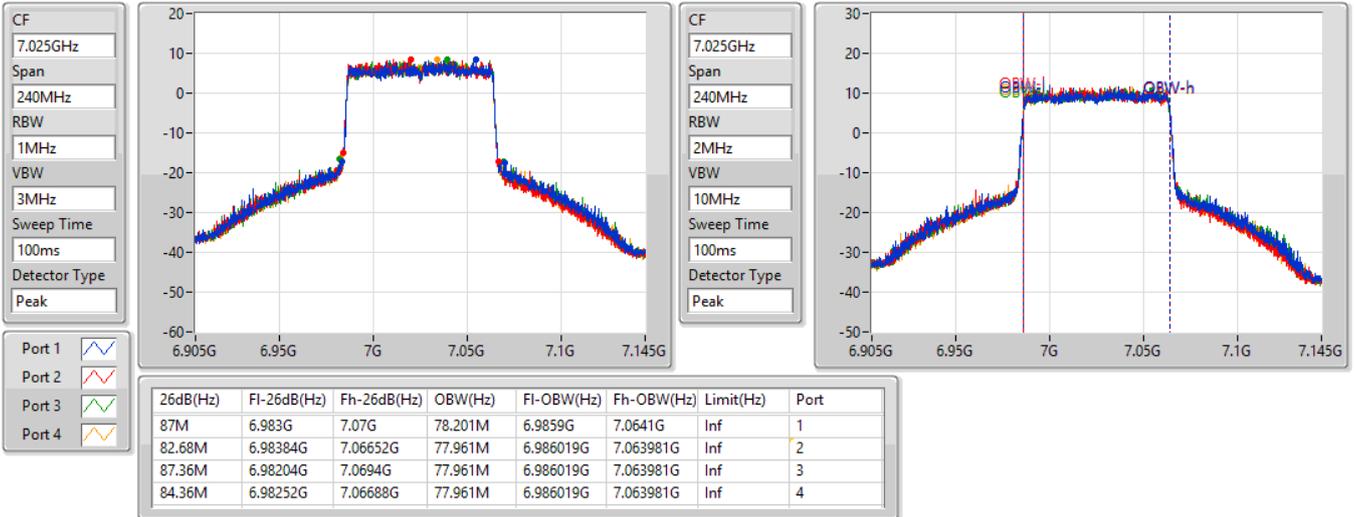


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

7025MHz

06/10/2021

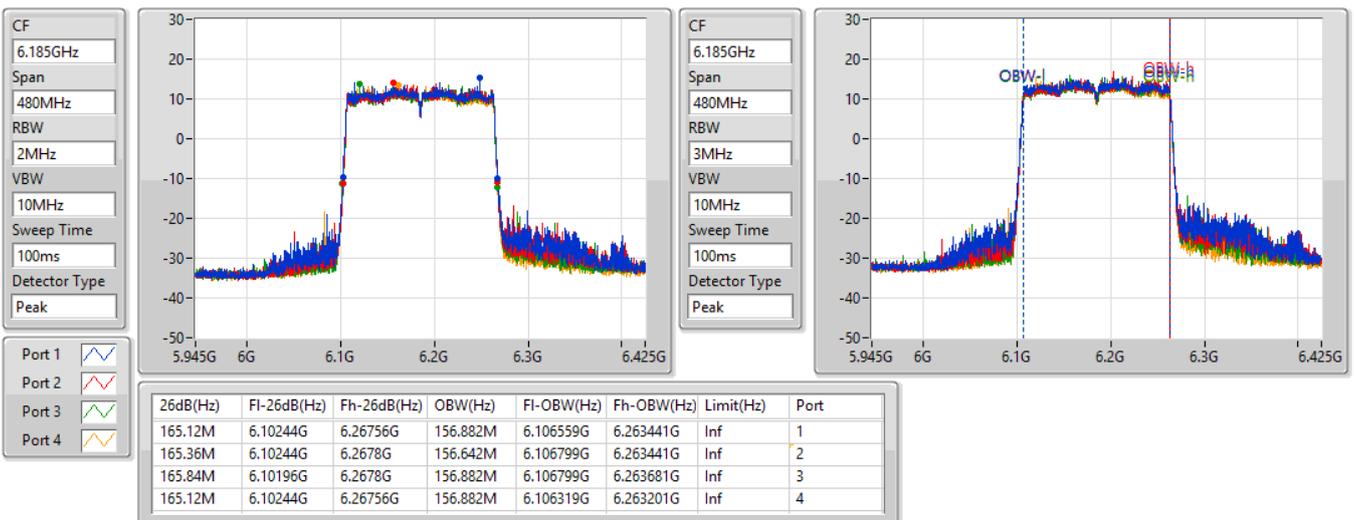


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6185MHz

06/10/2021



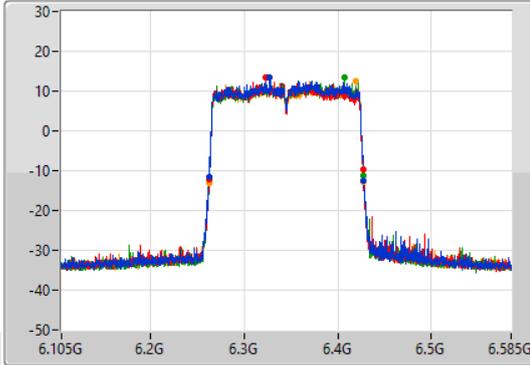
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

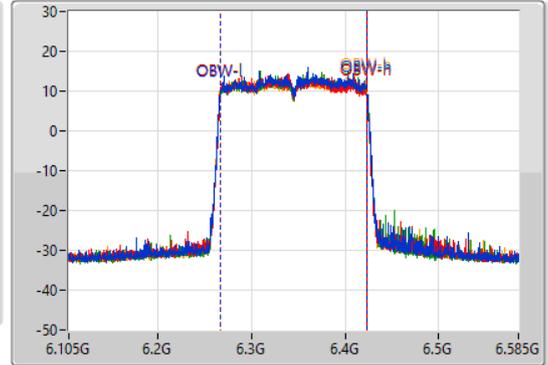
6345MHz

06/10/2021

CF
6.345GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.345GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
165.36M	6.2622G	6.42756G	156.882M	6.266559G	6.423441G	Inf	1
164.88M	6.2622G	6.42708G	156.882M	6.266319G	6.423201G	Inf	2
165.12M	6.26244G	6.42756G	156.642M	6.266799G	6.423441G	Inf	3
165.12M	6.2622G	6.42732G	157.121M	6.266319G	6.423441G	Inf	4

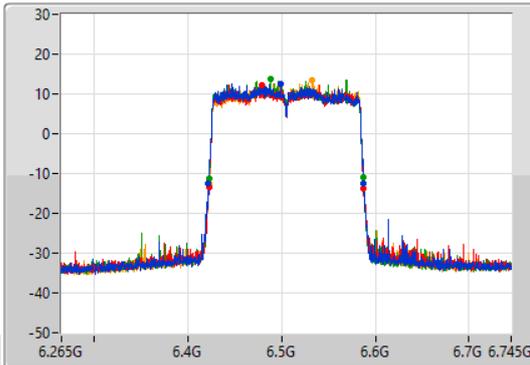
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

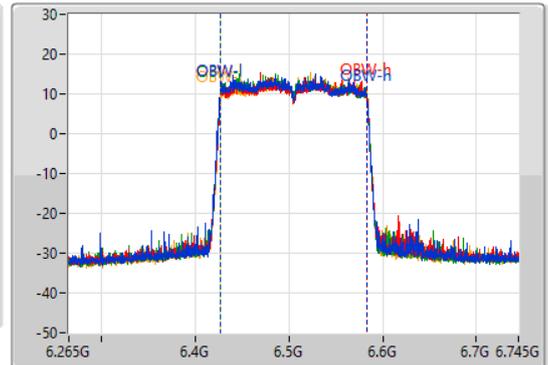
6505MHz Straddle 6.425-6.525GHz

06/10/2021

CF
6.505GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.505GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
165.36M	6.42196G	6.58732G	156.642M	6.426559G	6.583201G	Inf	1
165.36M	6.42244G	6.5878G	156.642M	6.426799G	6.583441G	Inf	2
164.64M	6.42268G	6.58732G	156.642M	6.426559G	6.583201G	Inf	3
164.4M	6.42268G	6.58708G	156.642M	6.426799G	6.583441G	Inf	4

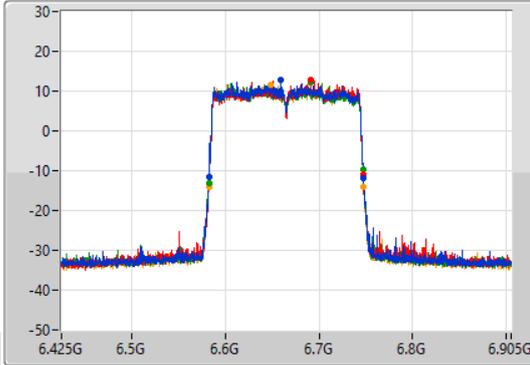
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

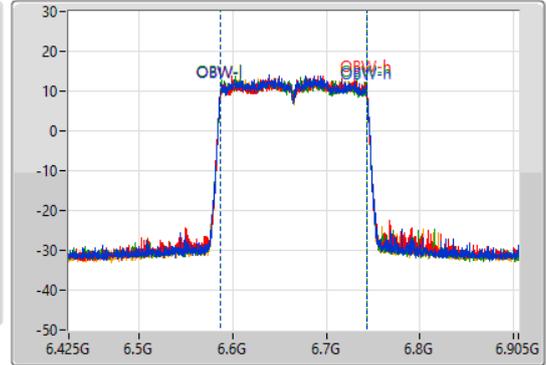
6665MHz

06/10/2021

CF
6.665GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.665GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
165.12M	6.58268G	6.7478G	156.882M	6.586559G	6.743441G	Inf	1
164.88M	6.58268G	6.74756G	156.882M	6.586559G	6.743441G	Inf	2
165.12M	6.5822G	6.74732G	156.882M	6.586559G	6.743441G	Inf	3
165.12M	6.58244G	6.74756G	156.642M	6.586559G	6.743201G	Inf	4

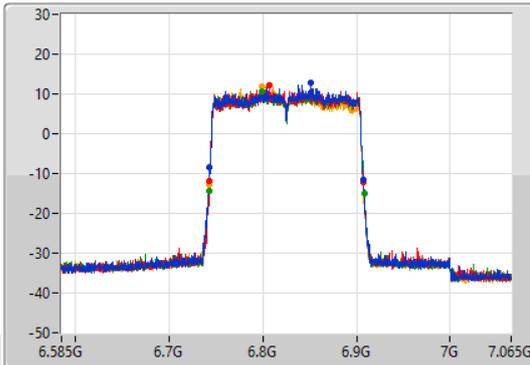
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

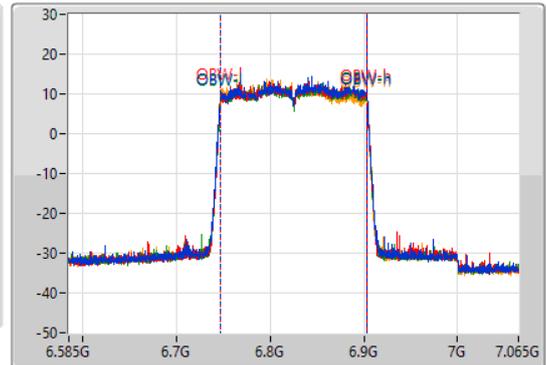
6825MHz Straddle 6.525-6.875GHz

06/10/2021

CF
6.825GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak

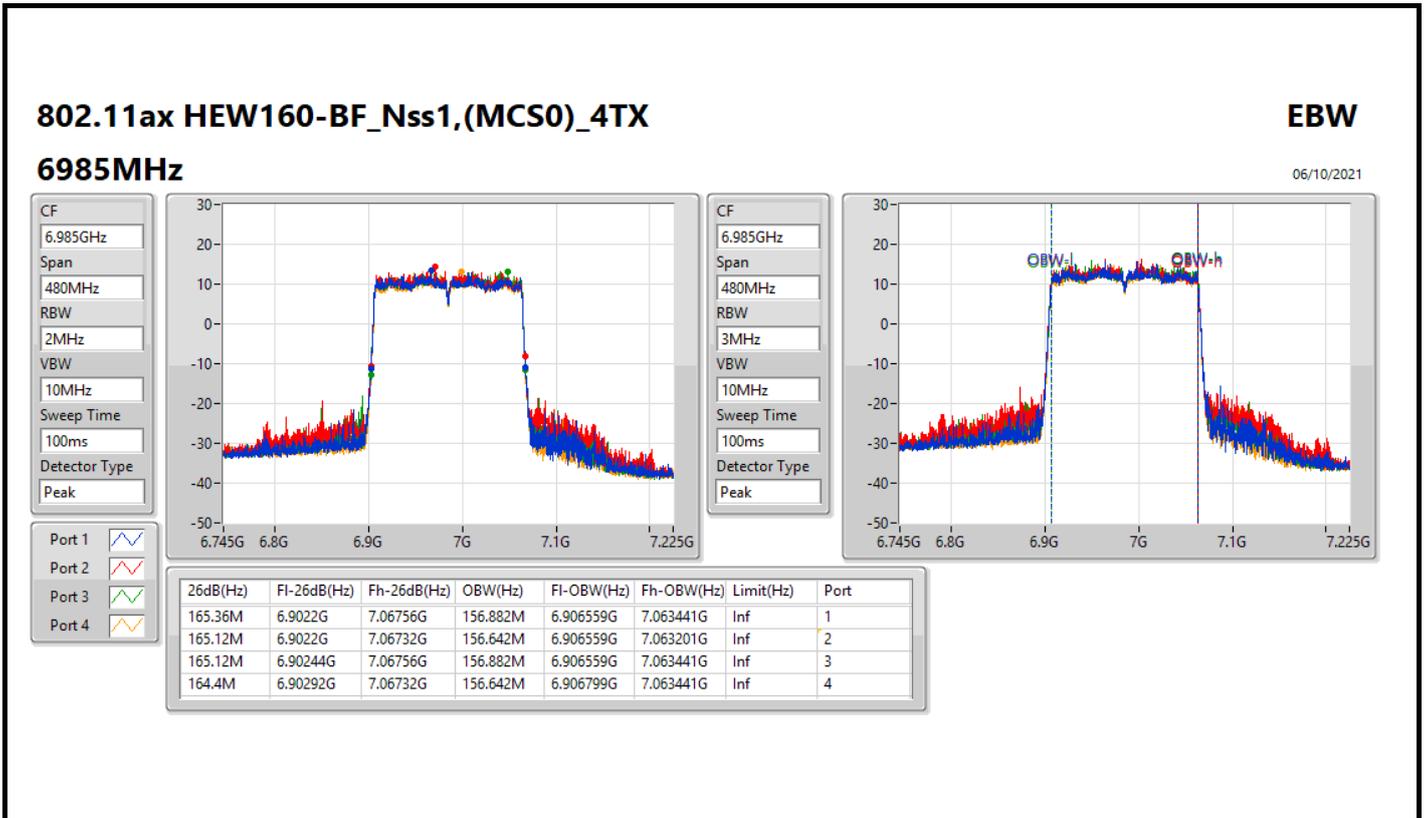


CF
6.825GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
164.4M	6.74292G	6.90732G	156.642M	6.746799G	6.903441G	Inf	1
164.88M	6.74268G	6.90756G	156.882M	6.746559G	6.903441G	Inf	2
166.08M	6.7422G	6.90828G	156.882M	6.746559G	6.903441G	Inf	3
164.4M	6.74268G	6.90708G	156.642M	6.746319G	6.902961G	Inf	4



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	27.93M	19.28M	19M3D1D	22.29M	19.19M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	46.2M	38.201M	38M2D1D	41.4M	38.081M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	87.24M	78.201M	78M2D1D	82.32M	77.721M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	274.56M	158.321M	158MD1D	233.28M	156.882M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.04M	19.31M	19M3D1D	22.68M	19.22M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	46.86M	38.201M	38M2D1D	41.64M	38.081M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	84.48M	78.081M	78M1D1D	81.96M	77.841M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	274.32M	157.841M	158MD1D	264M	157.841M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	28.95M	19.31M	19M3D1D	22.5M	19.22M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	45.18M	38.261M	38M3D1D	41.16M	38.141M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	86.88M	78.201M	78M2D1D	81.96M	77.841M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	274.32M	158.081M	158MD1D	261.6M	157.121M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	27M	19.31M	19M3D1D	23.28M	19.22M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	44.34M	38.261M	38M3D1D	41.22M	38.081M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	87.72M	78.201M	78M2D1D	82.2M	77.961M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	252.96M	157.841M	158MD1D	251.76M	157.361M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6115MHz	Pass	Inf	23.49M	19.22M	22.29M	19.19M	23.4M	19.28M	25.38M	19.25M
6255MHz	Pass	Inf	27.93M	19.28M	23.85M	19.25M	27M	19.25M	24.78M	19.22M
6415MHz	Pass	Inf	25.02M	19.22M	24.39M	19.28M	26.4M	19.28M	27.3M	19.25M
6435MHz	Pass	Inf	22.77M	19.25M	26.22M	19.28M	23.34M	19.28M	22.68M	19.28M
6475MHz	Pass	Inf	27.24M	19.25M	23.22M	19.22M	25.2M	19.22M	24.42M	19.22M
6515MHz	Pass	Inf	29.04M	19.22M	25.05M	19.22M	24.45M	19.31M	26.4M	19.28M
6535MHz	Pass	Inf	25.71M	19.25M	24.99M	19.25M	24.3M	19.25M	26.04M	19.22M
6695MHz	Pass	Inf	23.88M	19.22M	24M	19.25M	23.28M	19.25M	27.75M	19.28M
6855MHz	Pass	Inf	22.5M	19.31M	23.7M	19.28M	24.42M	19.25M	25.86M	19.25M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	22.95M	19.28M	25.11M	19.28M	28.95M	19.28M	25.53M	19.25M
6895MHz	Pass	Inf	24.27M	19.25M	27M	19.22M	23.64M	19.25M	23.46M	19.25M
6995MHz	Pass	Inf	24.39M	19.25M	26.22M	19.28M	26.01M	19.28M	25.32M	19.31M
7095MHz	Pass	Inf	23.28M	19.25M	24.69M	19.25M	24.99M	19.25M	23.88M	19.28M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6125MHz	Pass	Inf	42.66M	38.081M	42.42M	38.141M	43.02M	38.141M	42.54M	38.201M
6245MHz	Pass	Inf	42.06M	38.201M	41.4M	38.081M	41.4M	38.201M	43.74M	38.141M
6405MHz	Pass	Inf	41.94M	38.141M	46.2M	38.201M	45.48M	38.201M	46.2M	38.201M
6445MHz	Pass	Inf	43.26M	38.141M	46.86M	38.201M	42.3M	38.141M	42.96M	38.141M
6485MHz	Pass	Inf	43.92M	38.141M	42.24M	38.141M	43.14M	38.201M	42.24M	38.081M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	41.94M	38.141M	41.64M	38.141M	43.56M	38.141M	42.06M	38.141M
6565MHz	Pass	Inf	42.24M	38.201M	43.02M	38.141M	42.42M	38.141M	42.6M	38.201M
6685MHz	Pass	Inf	43.2M	38.141M	41.16M	38.141M	43.56M	38.201M	41.52M	38.141M
6845MHz	Pass	Inf	43.56M	38.261M	43.74M	38.261M	45.18M	38.201M	45.18M	38.141M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	43.26M	38.141M	41.52M	38.201M	42.84M	38.201M	43.08M	38.201M
6925MHz	Pass	Inf	42.6M	38.261M	41.4M	38.141M	42.66M	38.201M	42.84M	38.081M
7005MHz	Pass	Inf	43.44M	38.201M	41.34M	38.141M	44.1M	38.201M	42.9M	38.201M
7085MHz	Pass	Inf	43.44M	38.141M	41.64M	38.201M	44.34M	38.201M	41.22M	38.141M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6145MHz	Pass	Inf	83.16M	77.961M	82.68M	77.841M	82.32M	78.081M	84.6M	77.721M
6225MHz	Pass	Inf	83.4M	78.081M	83.88M	78.081M	83.16M	78.201M	82.8M	78.201M
6385MHz	Pass	Inf	85.2M	77.961M	83.52M	77.961M	87.24M	77.961M	83.4M	77.841M
6465MHz	Pass	Inf	84.48M	77.961M	83.04M	77.841M	83.76M	78.081M	83.16M	78.081M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	84.36M	78.081M	82.44M	77.961M	83.16M	78.081M	81.96M	77.961M
6625MHz	Pass	Inf	83.4M	78.201M	83.16M	77.961M	84.96M	78.201M	84M	77.841M
6705MHz	Pass	Inf	82.92M	78.081M	82.44M	77.961M	85.92M	78.201M	81.96M	78.081M
6785MHz	Pass	Inf	83.88M	78.081M	82.68M	77.961M	83.64M	78.081M	84.24M	78.081M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	86.88M	78.081M	84.24M	77.961M	82.56M	78.081M	84.72M	78.081M
6945MHz	Pass	Inf	83.88M	78.081M	83.52M	78.081M	85.08M	78.081M	87.72M	77.961M
7025MHz	Pass	Inf	84.36M	78.201M	82.2M	78.081M	82.56M	78.081M	82.68M	77.961M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6185MHz	Pass	Inf	274.32M	158.321M	265.68M	157.601M	274.56M	157.361M	251.76M	156.882M
6345MHz	Pass	Inf	263.76M	157.601M	264.24M	158.321M	273.84M	158.081M	233.28M	157.841M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	274.32M	157.841M	265.2M	157.841M	274.32M	157.841M	264M	157.841M
6665MHz	Pass	Inf	274.32M	157.841M	264.72M	158.081M	264.96M	157.601M	263.28M	157.601M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	263.04M	157.361M	273.36M	157.601M	273.36M	157.361M	261.6M	157.121M
6985MHz	Pass	Inf	252.48M	157.361M	252M	157.601M	252.96M	157.841M	251.76M	157.361M

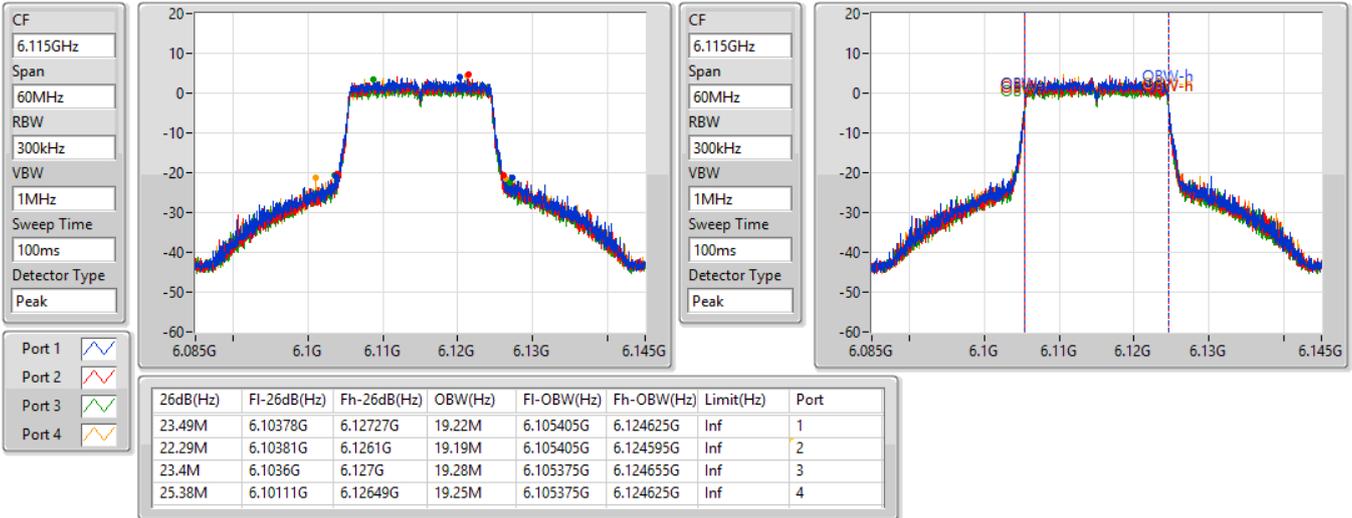
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

6115MHz

06/10/2021

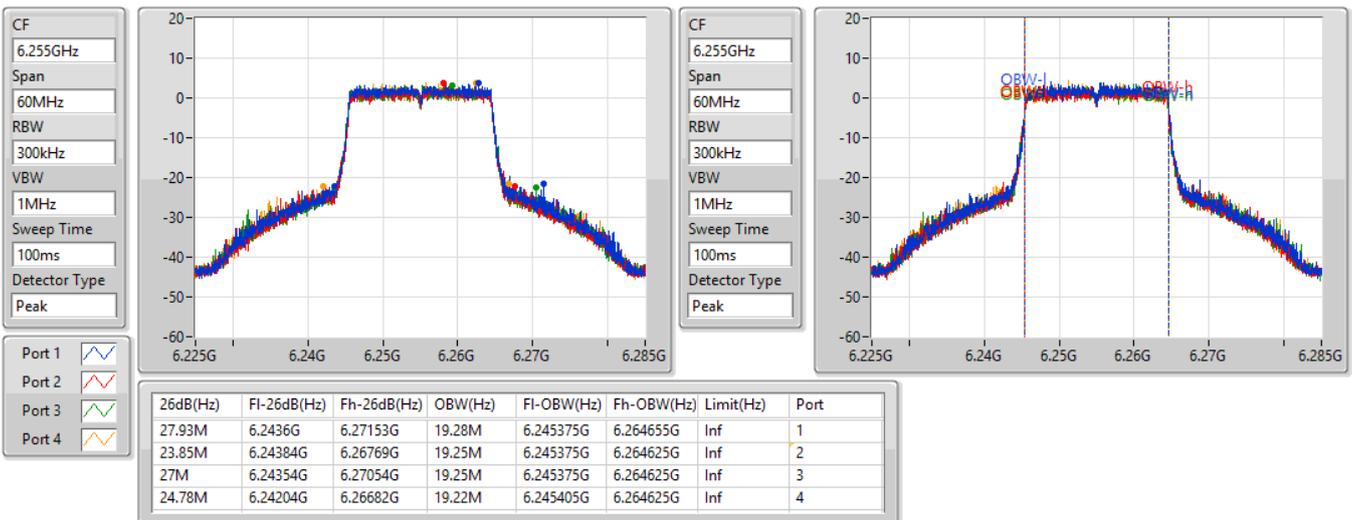


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

6255MHz

06/10/2021



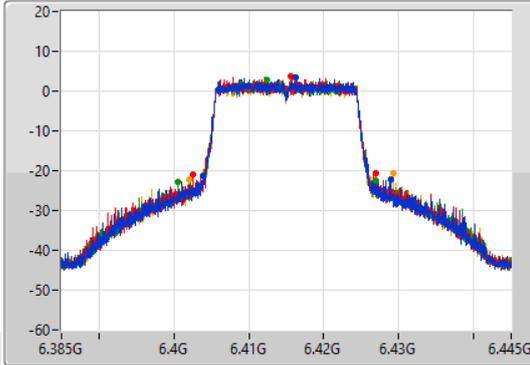
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

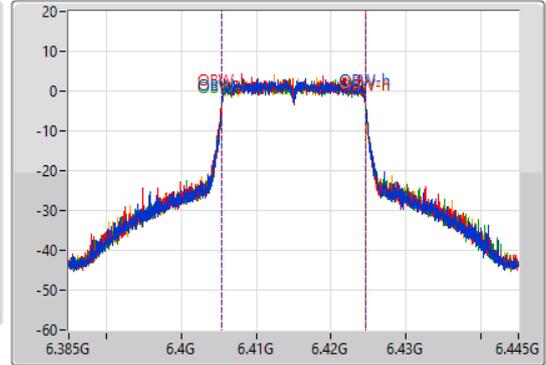
6415MHz

06/10/2021

CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.02M	6.40396G	6.42898G	19.22M	6.405405G	6.424625G	Inf	1
24.39M	6.40252G	6.42691G	19.28M	6.405345G	6.424625G	Inf	2
26.4M	6.40057G	6.42697G	19.28M	6.405375G	6.424655G	Inf	3
27.3M	6.40204G	6.42934G	19.25M	6.405375G	6.424625G	Inf	4

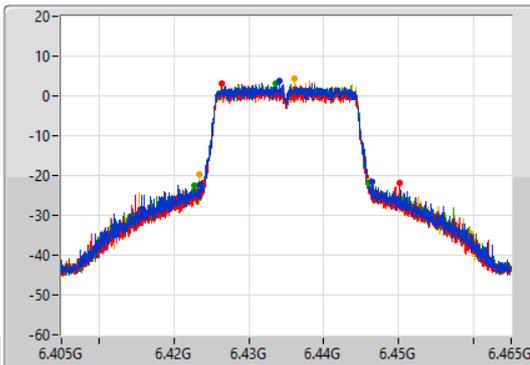
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

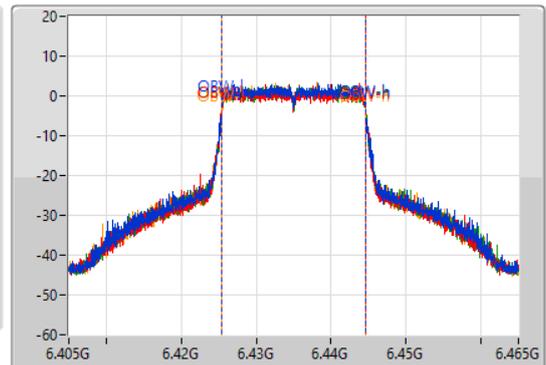
6435MHz

06/10/2021

CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.77M	6.42363G	6.4464G	19.25M	6.425375G	6.444625G	Inf	1
26.22M	6.42384G	6.45006G	19.28M	6.425345G	6.444625G	Inf	2
23.34M	6.42264G	6.44598G	19.28M	6.425375G	6.444655G	Inf	3
22.68M	6.42339G	6.44607G	19.28M	6.425375G	6.444655G	Inf	4

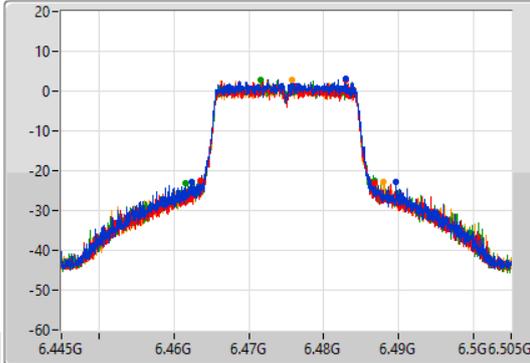
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

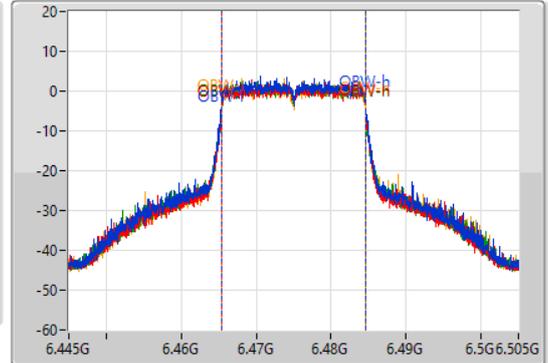
6475MHz

06/10/2021

CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.24M	6.46243G	6.48967G	19.25M	6.465345G	6.484595G	Inf	1
23.22M	6.46354G	6.48676G	19.22M	6.465375G	6.484595G	Inf	2
25.2M	6.46156G	6.48676G	19.22M	6.465405G	6.484625G	Inf	3
24.42M	6.4636G	6.48802G	19.22M	6.465405G	6.484625G	Inf	4

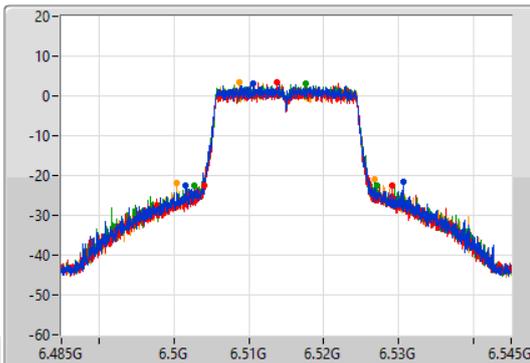
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

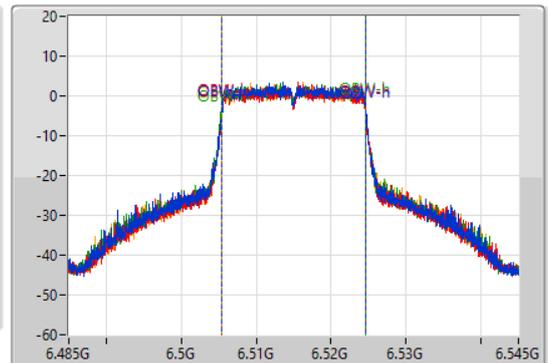
6515MHz

06/10/2021

CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.04M	6.50153G	6.53057G	19.22M	6.505405G	6.524625G	Inf	1
25.05M	6.50405G	6.5291G	19.22M	6.505405G	6.524625G	Inf	2
24.45M	6.50273G	6.52718G	19.31M	6.505315G	6.524625G	Inf	3
26.4M	6.50033G	6.52673G	19.28M	6.505375G	6.524655G	Inf	4

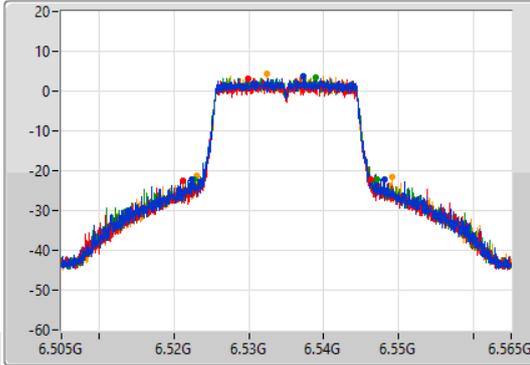
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

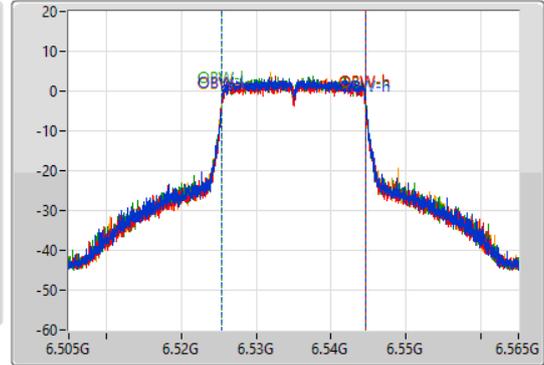
6535MHz

06/10/2021

CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.71M	6.52234G	6.54805G	19.25M	6.525405G	6.544655G	Inf	1
24.99M	6.52123G	6.54622G	19.25M	6.525375G	6.544625G	Inf	2
24.3M	6.52276G	6.54706G	19.25M	6.525405G	6.544655G	Inf	3
26.04M	6.523G	6.54904G	19.22M	6.525375G	6.544595G	Inf	4

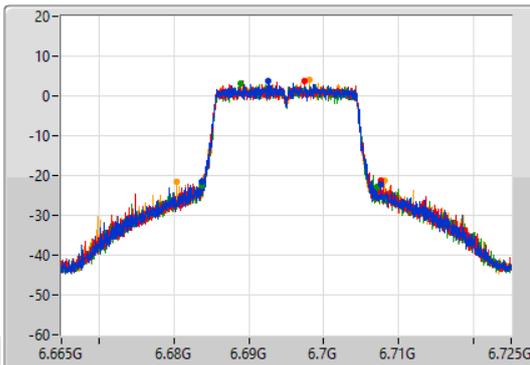
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

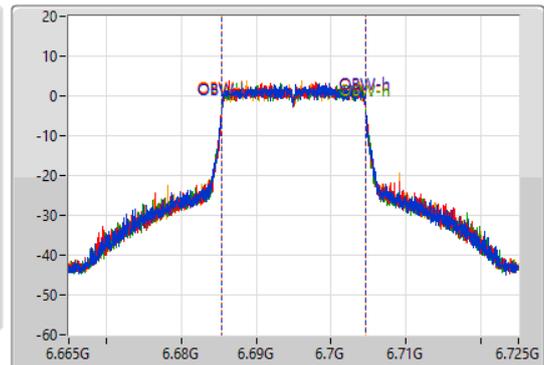
6695MHz

06/10/2021

CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

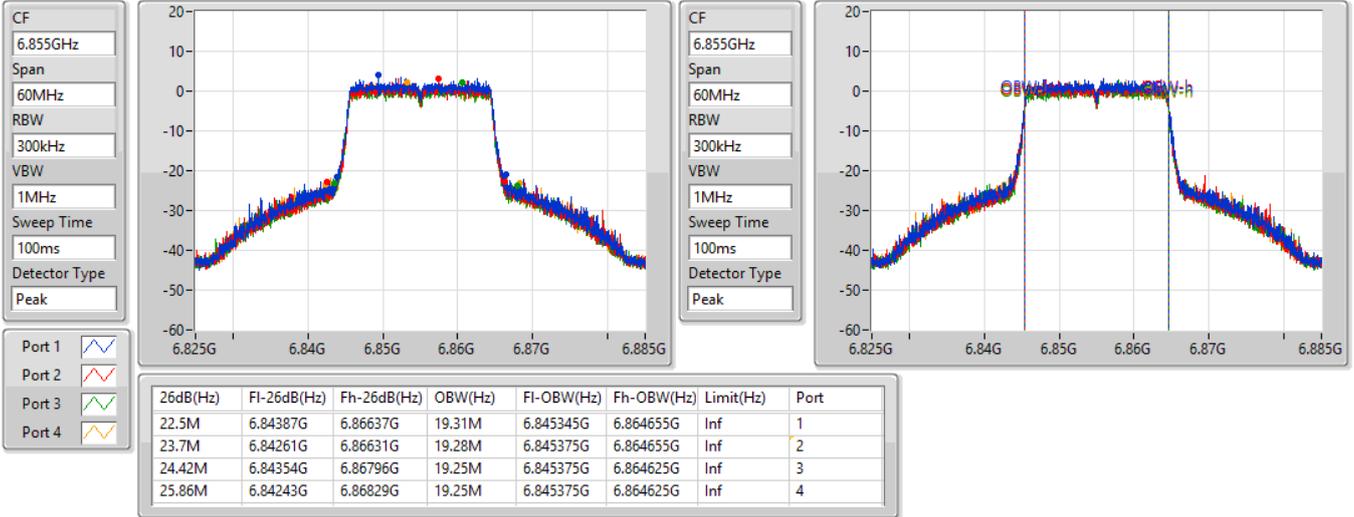
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.88M	6.68372G	6.7076G	19.22M	6.685405G	6.704625G	Inf	1
24M	6.68366G	6.70766G	19.25M	6.685375G	6.704625G	Inf	2
23.28M	6.68378G	6.70706G	19.25M	6.685375G	6.704625G	Inf	3
27.75M	6.68036G	6.70811G	19.28M	6.685375G	6.704655G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

6855MHz

06/10/2021



802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

6875MHz Straddle 6.525-6.875GHz

06/10/2021



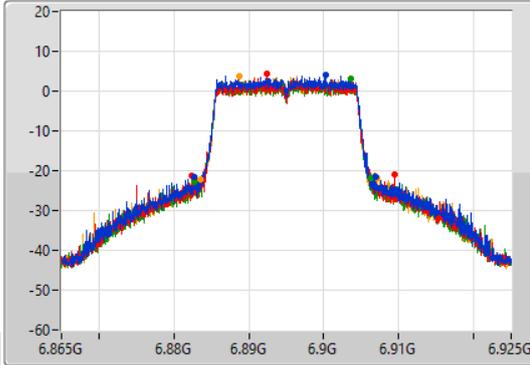
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

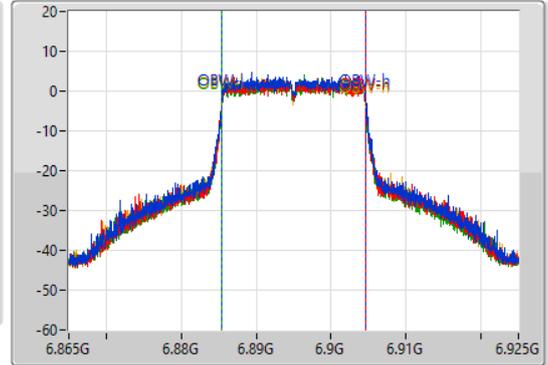
6895MHz

06/10/2021

CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.27M	6.88276G	6.90703G	19.25M	6.885405G	6.904655G	Inf	1
27M	6.8824G	6.9094G	19.22M	6.885405G	6.904625G	Inf	2
23.64M	6.8827G	6.90634G	19.25M	6.885375G	6.904625G	Inf	3
23.46M	6.88363G	6.90709G	19.25M	6.885405G	6.904655G	Inf	4

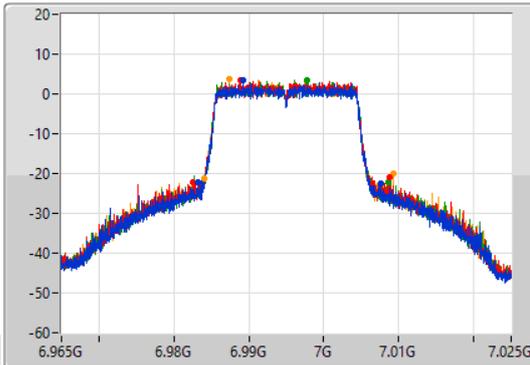
802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

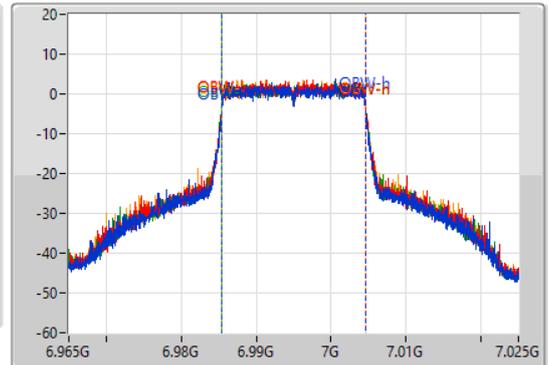
6995MHz

06/10/2021

CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

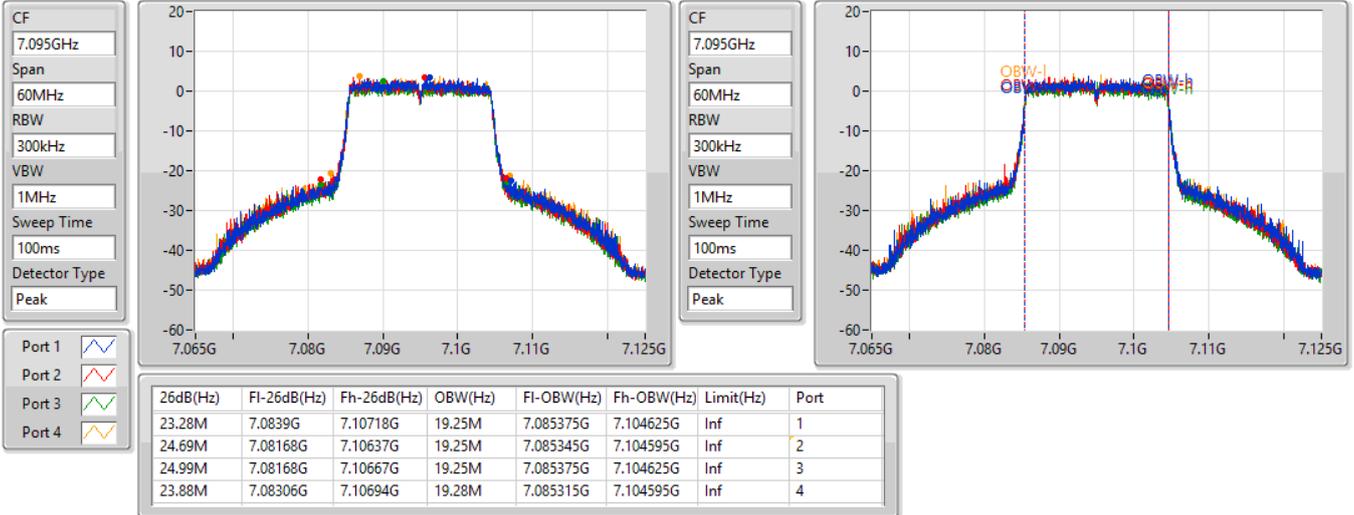
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.39M	6.98318G	7.00757G	19.25M	6.985375G	7.004625G	Inf	1
26.22M	6.98255G	7.00877G	19.28M	6.985375G	7.004655G	Inf	2
26.01M	6.98255G	7.00856G	19.28M	6.985375G	7.004655G	Inf	3
25.32M	6.98399G	7.00931G	19.31M	6.985345G	7.004655G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

7095MHz

06/10/2021



802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6125MHz

06/10/2021



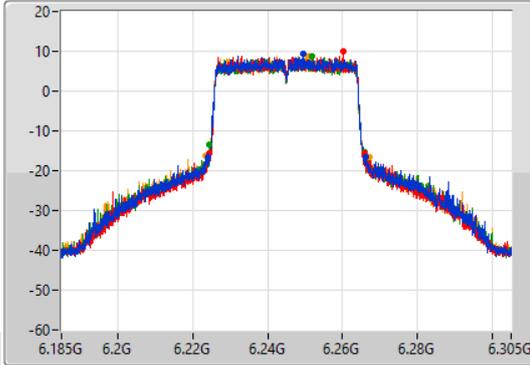
802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

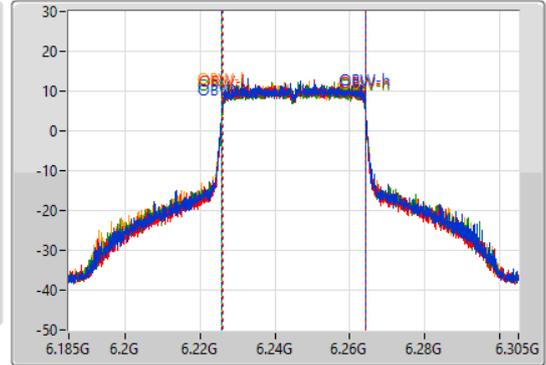
6245MHz

06/10/2021

CF
6.245GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.245GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.06M	6.22418G	6.26624G	38.201M	6.22593G	6.26413G	Inf	1
41.4M	6.22436G	6.26576G	38.081M	6.22599G	6.26407G	Inf	2
41.4M	6.22442G	6.26582G	38.201M	6.22593G	6.26413G	Inf	3
43.74M	6.22346G	6.2672G	38.141M	6.22593G	6.26407G	Inf	4

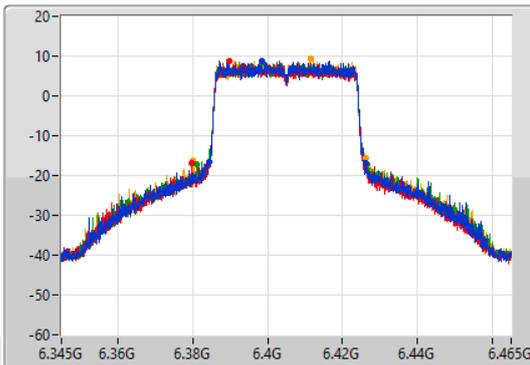
802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

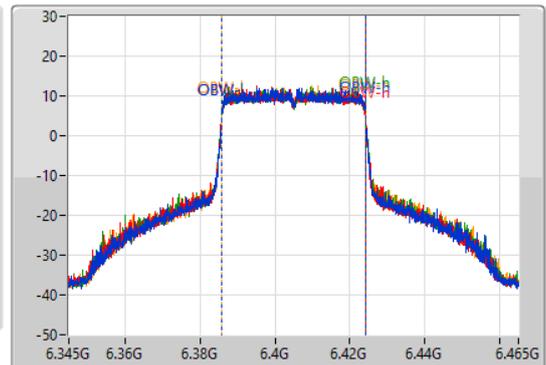
6405MHz

06/10/2021

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.94M	6.3843G	6.42624G	38.141M	6.38593G	6.42407G	Inf	1
46.2M	6.37986G	6.42606G	38.201M	6.38587G	6.42407G	Inf	2
45.48M	6.38124G	6.42672G	38.201M	6.38593G	6.42413G	Inf	3
46.2M	6.37998G	6.42618G	38.201M	6.38593G	6.42413G	Inf	4

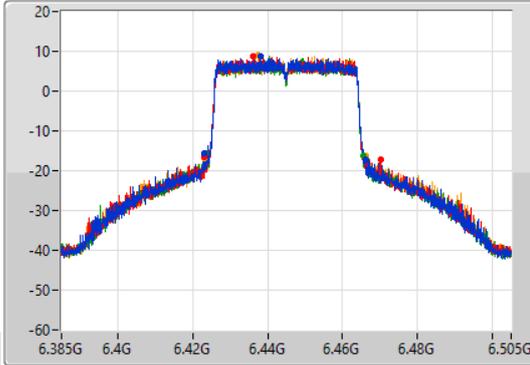
802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

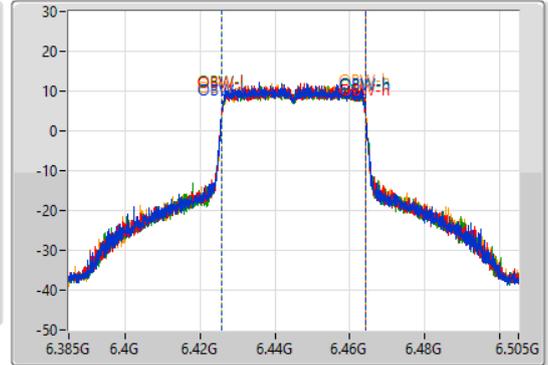
6445MHz

06/10/2021

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.26M	6.42298G	6.46624G	38.141M	6.42593G	6.46407G	Inf	1
46.86M	6.42322G	6.47008G	38.201M	6.42587G	6.46407G	Inf	2
42.3M	6.42334G	6.46564G	38.141M	6.42593G	6.46407G	Inf	3
42.96M	6.42322G	6.46618G	38.141M	6.42593G	6.46407G	Inf	4

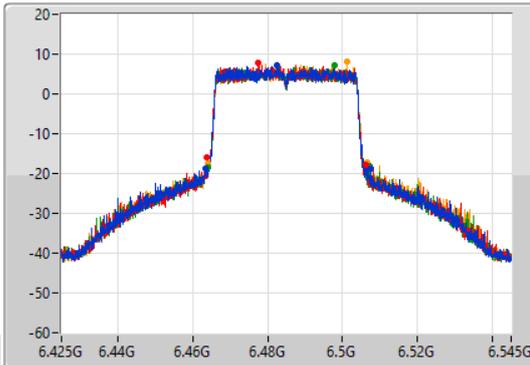
802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

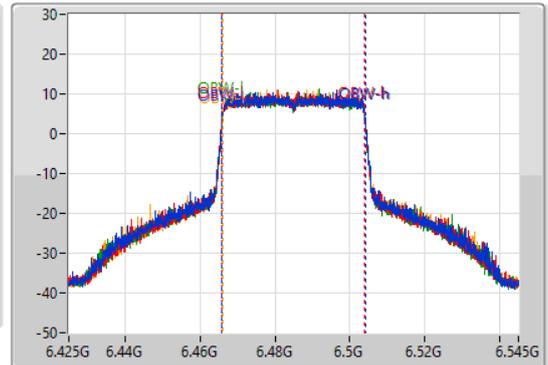
6485MHz

06/10/2021

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

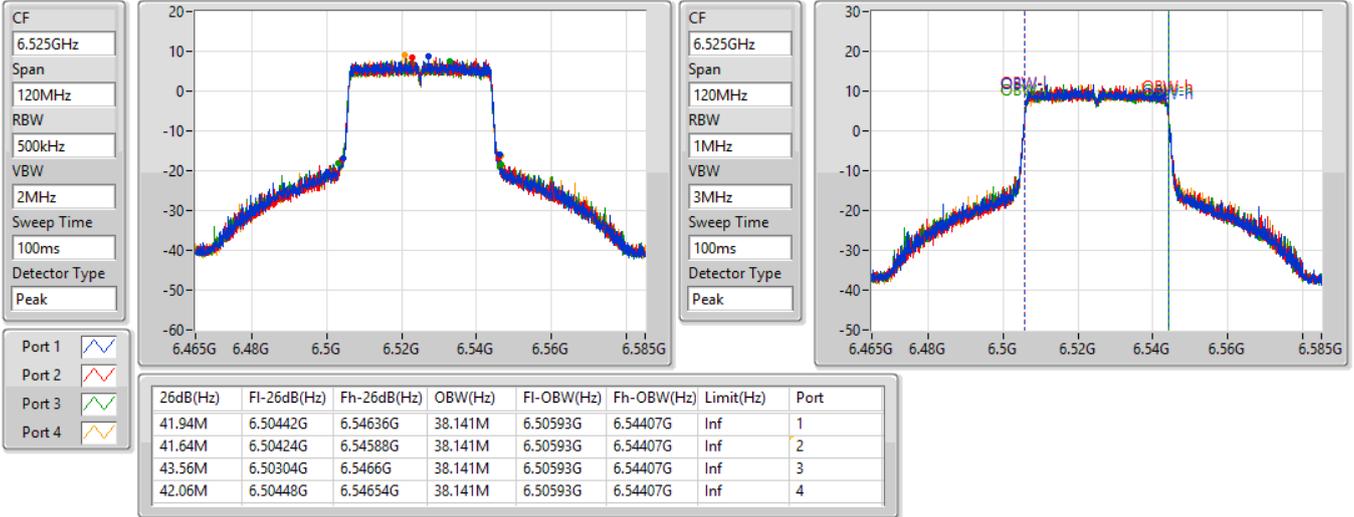
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.92M	6.46358G	6.5075G	38.141M	6.46593G	6.50407G	Inf	1
42.24M	6.46394G	6.50618G	38.141M	6.46587G	6.50407G	Inf	2
43.14M	6.46418G	6.50732G	38.201M	6.46587G	6.50407G	Inf	3
42.24M	6.46418G	6.50642G	38.081M	6.46599G	6.50407G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6525MHz Straddle 6.525-6.875GHz

06/10/2021



802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6565MHz

06/10/2021

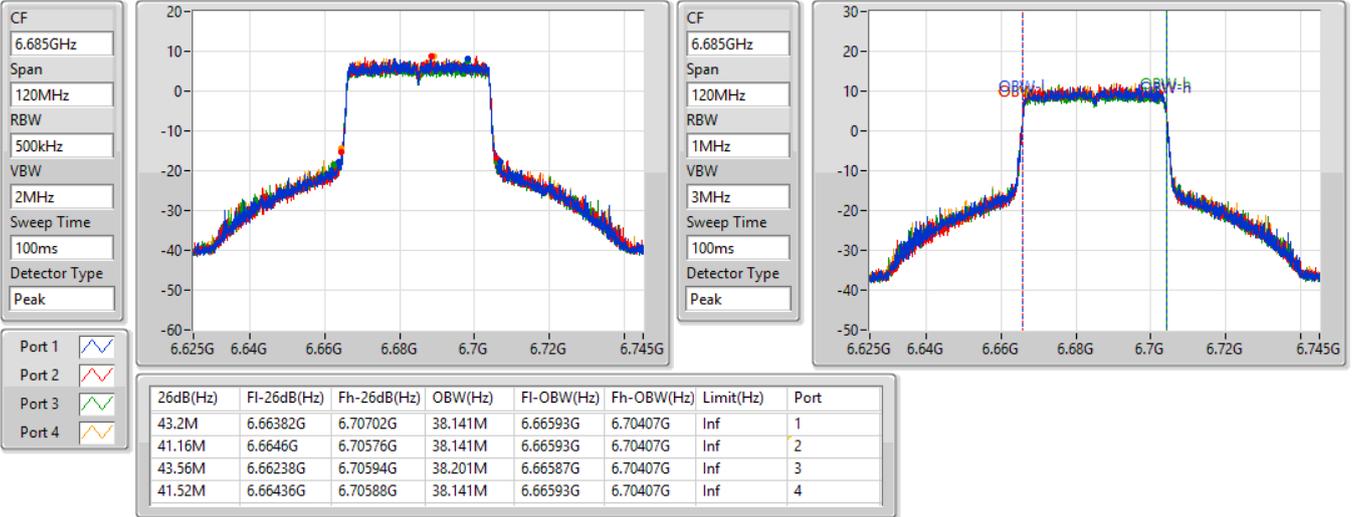


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6685MHz

06/10/2021

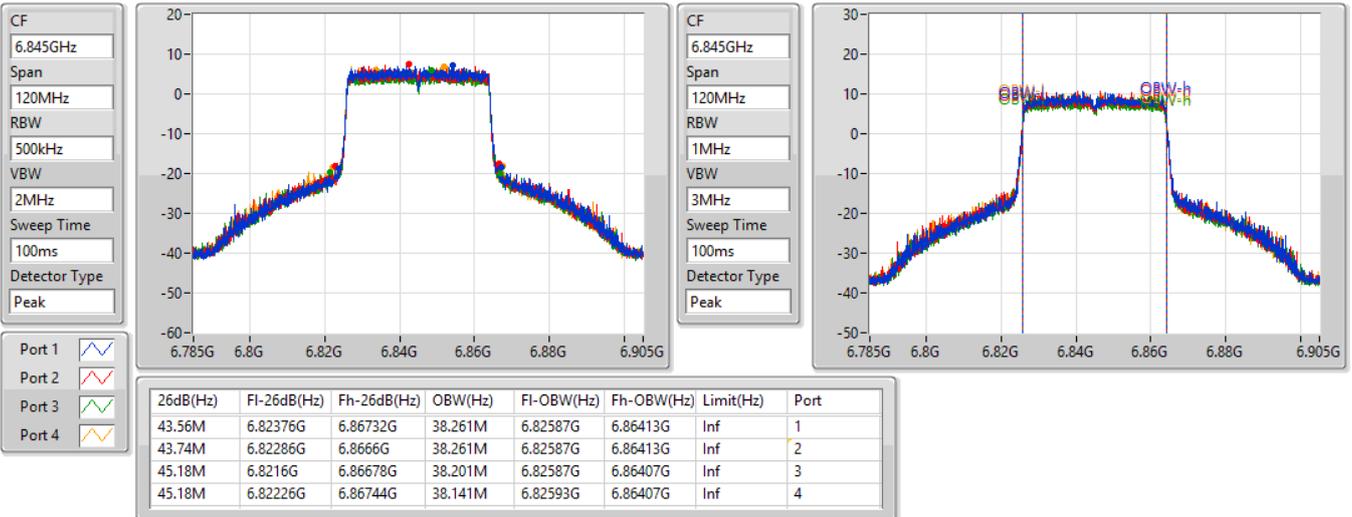


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6845MHz

06/10/2021

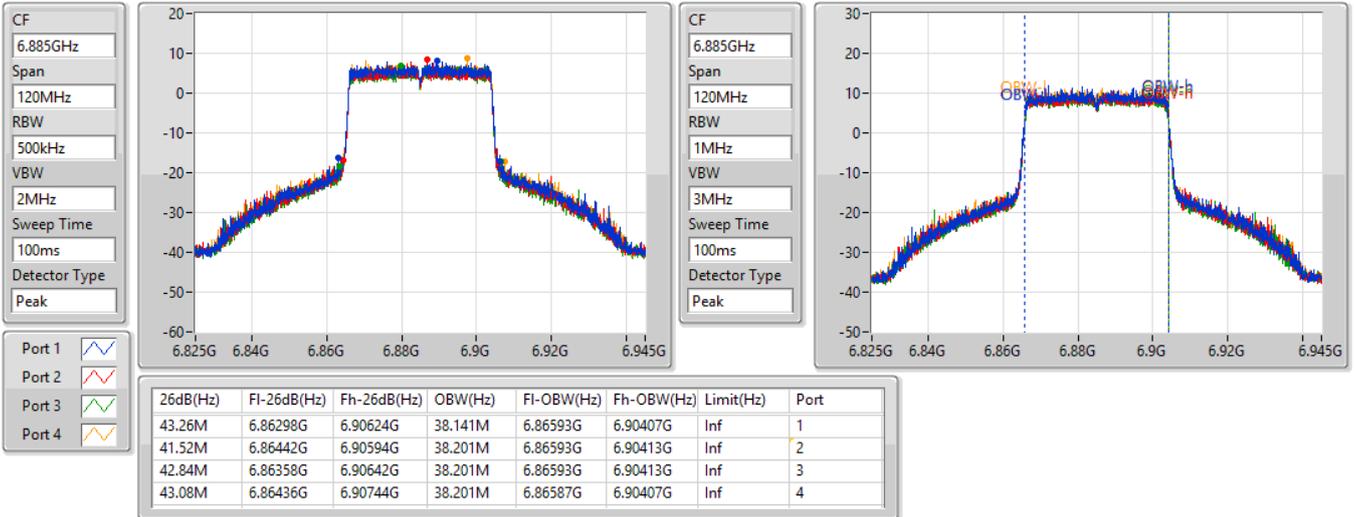


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6885MHz Straddle 6.525-6.875GHz

06/10/2021

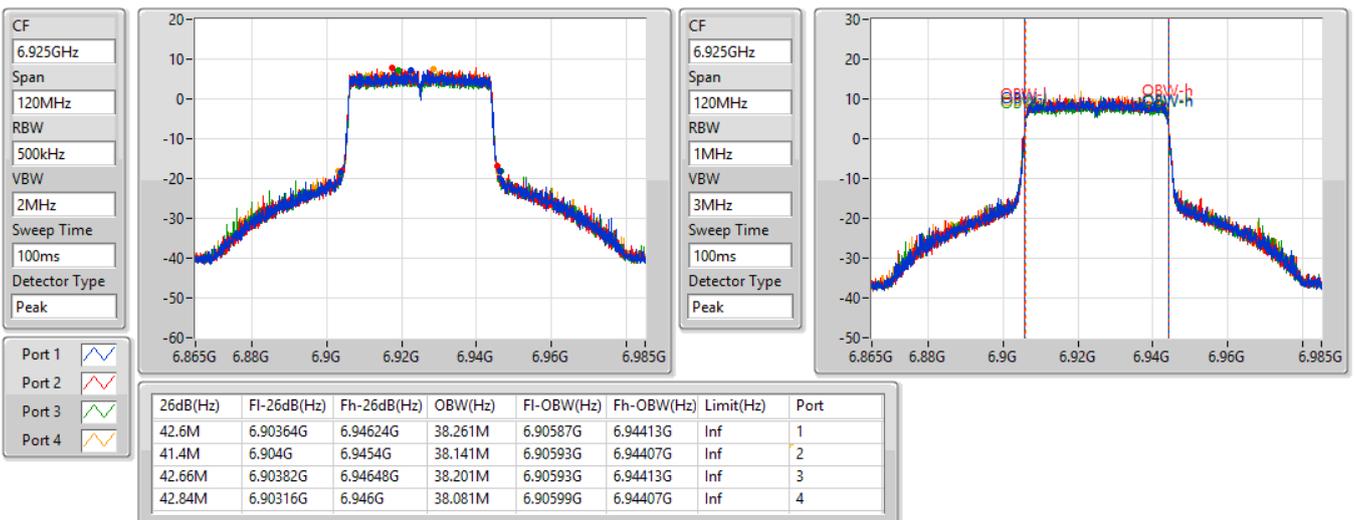


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

6925MHz

06/10/2021

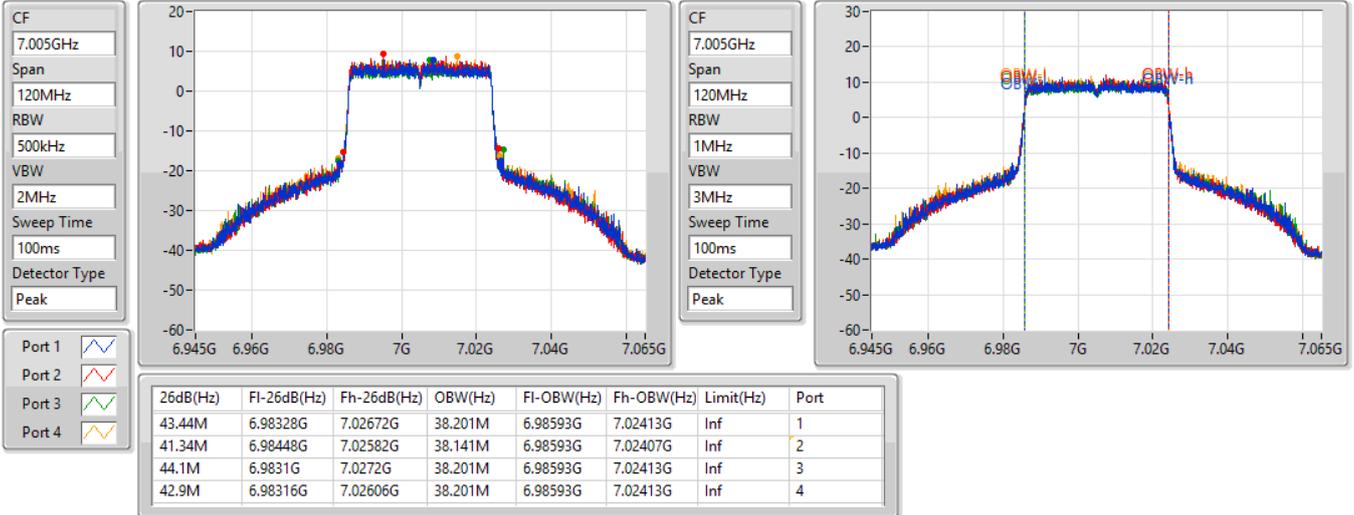


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

7005MHz

06/10/2021

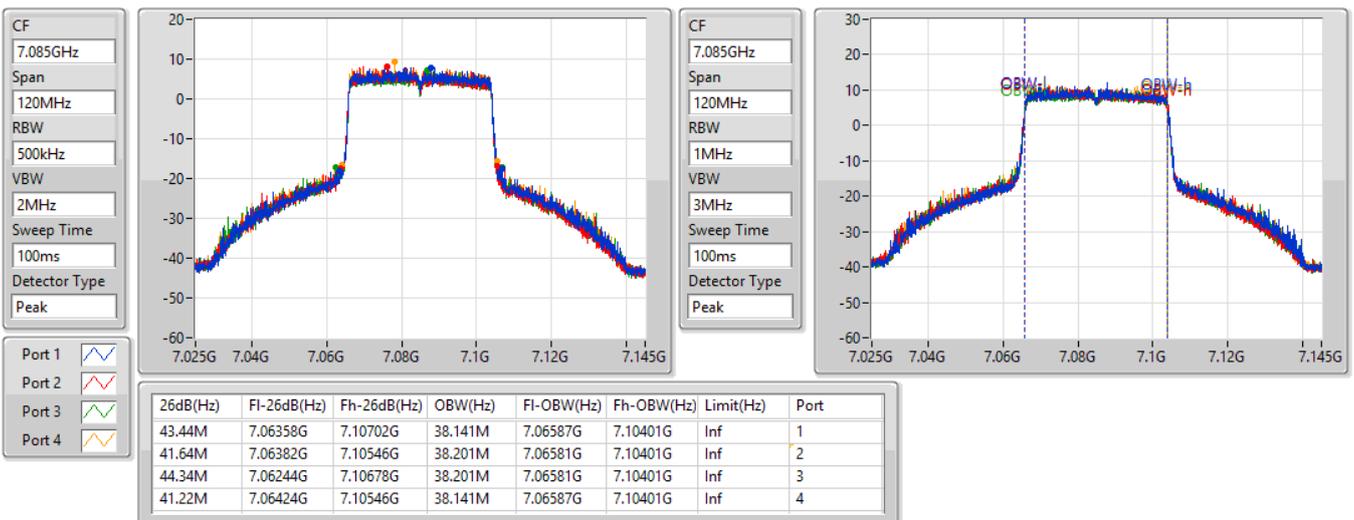


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

7085MHz

06/10/2021

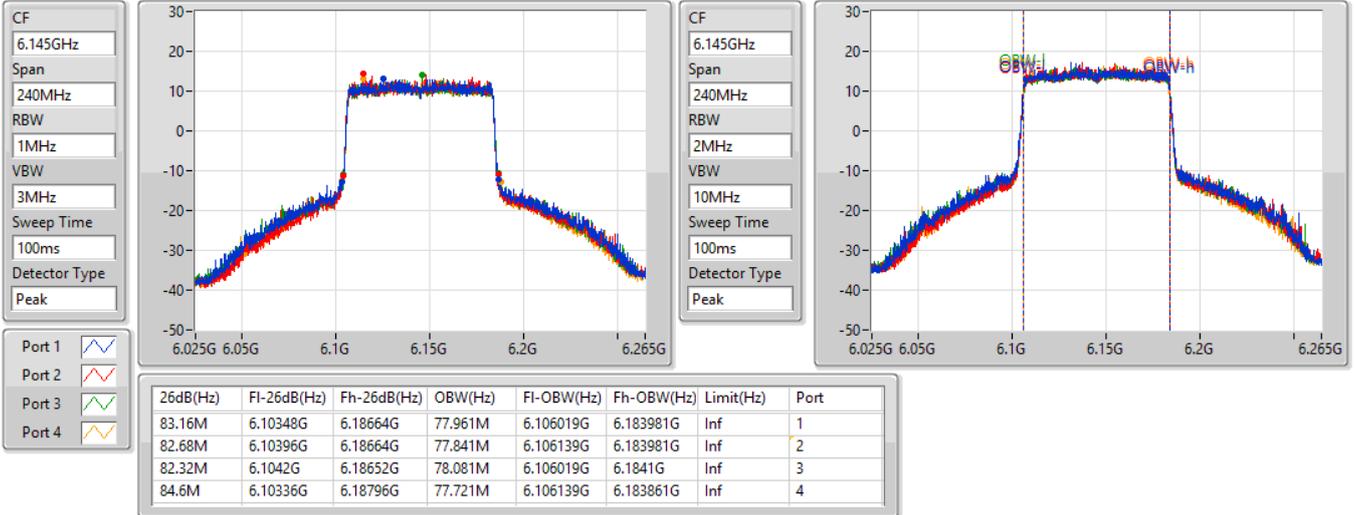


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6145MHz

06/10/2021

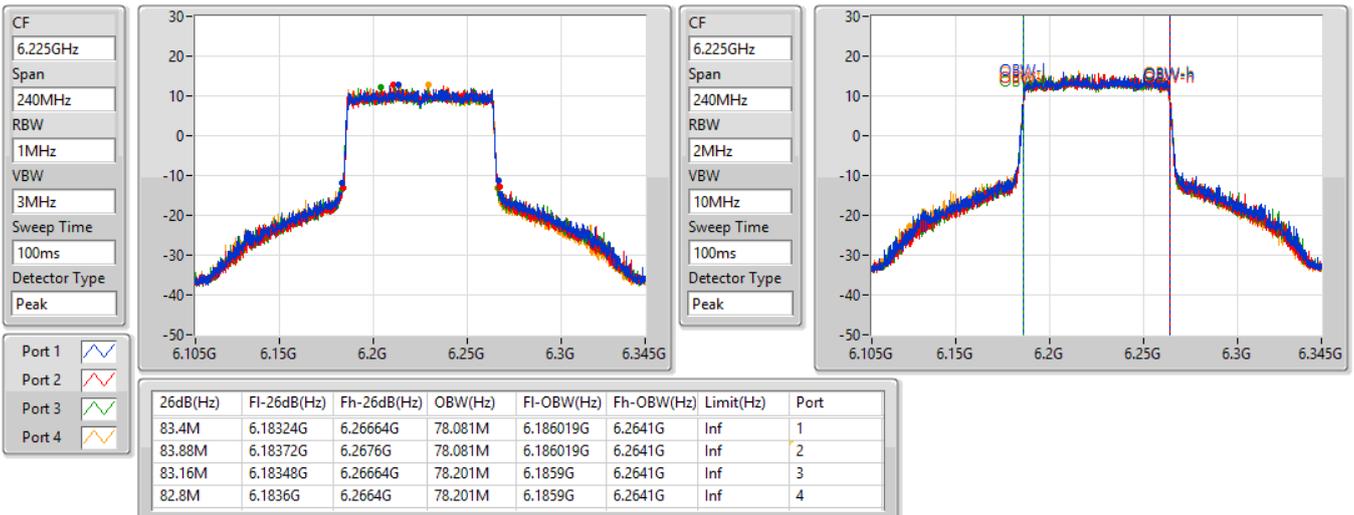


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6225MHz

06/10/2021



802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6385MHz

06/10/2021

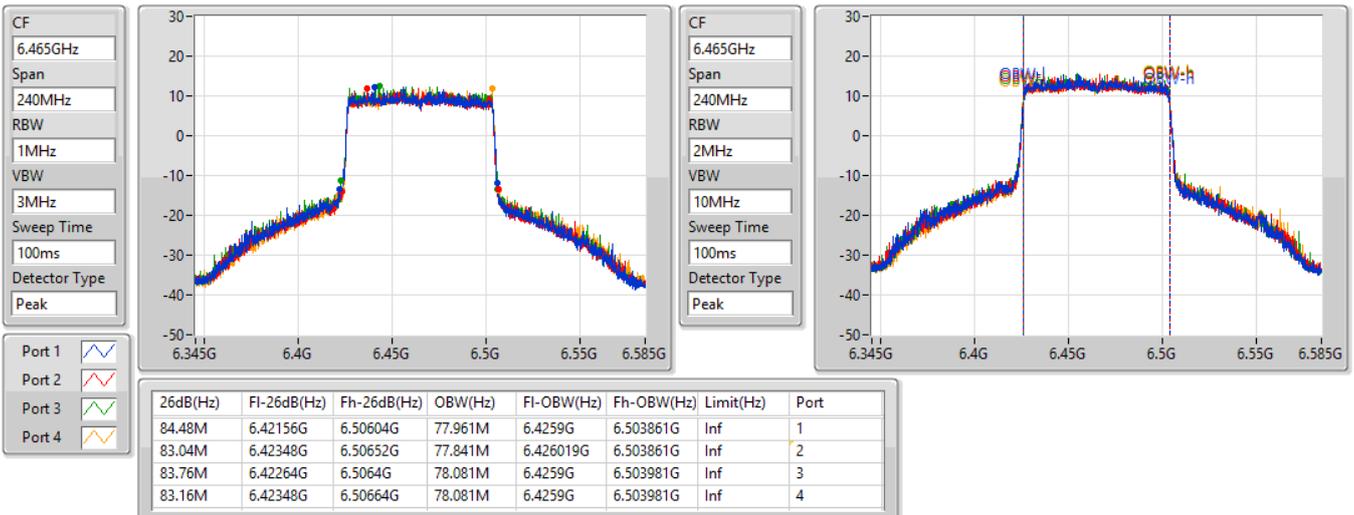


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6465MHz

06/10/2021

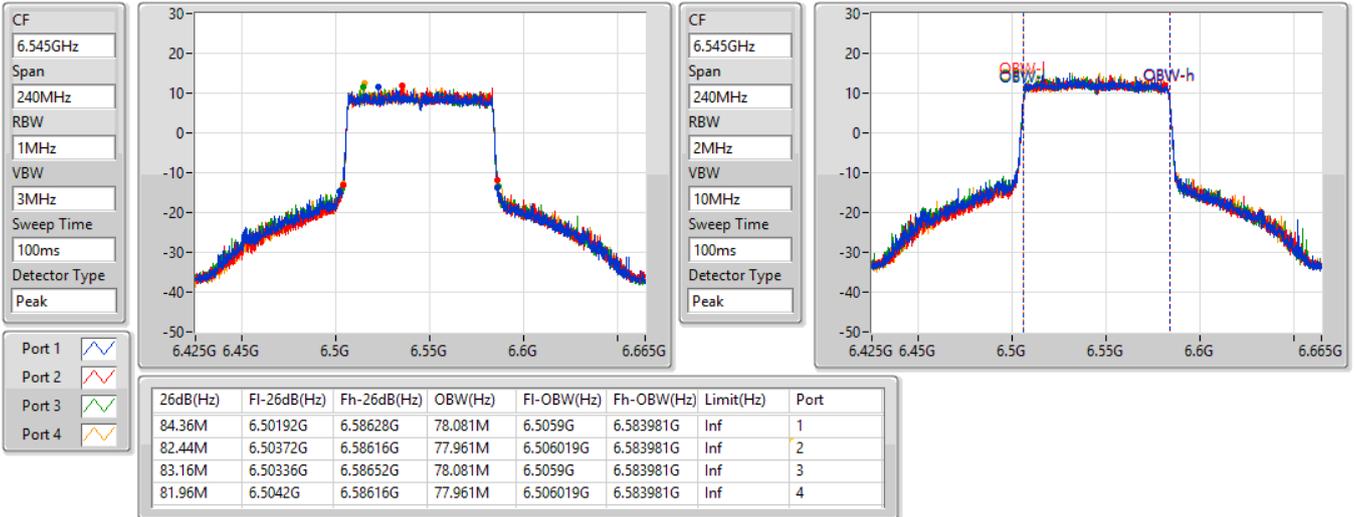


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6545MHz Straddle 6.525-6.875GHz

06/10/2021

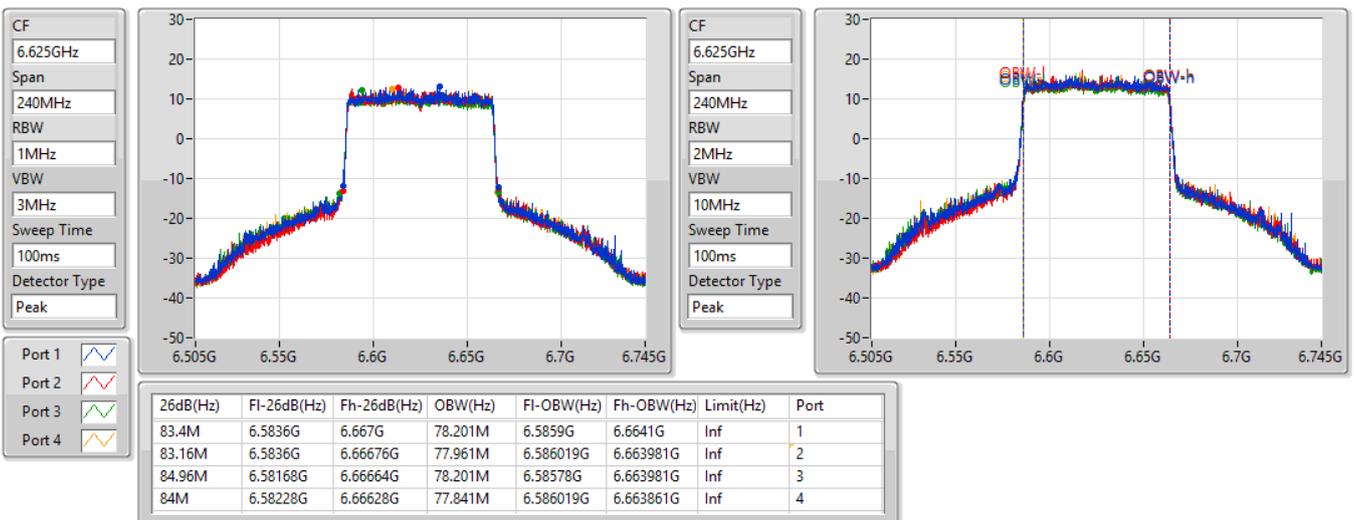


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6625MHz

06/10/2021



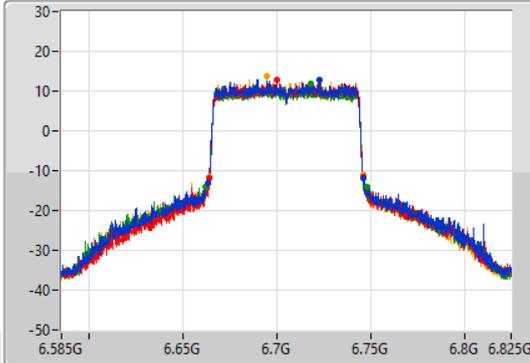
802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

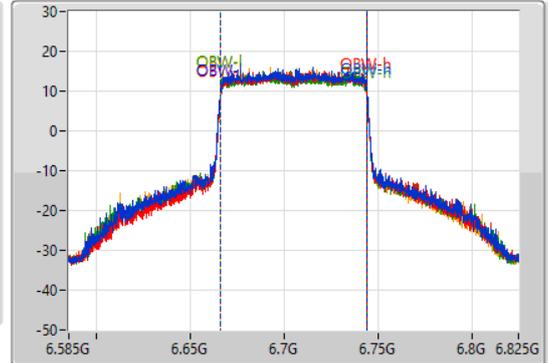
6705MHz

06/10/2021

CF
6.705GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.705GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.92M	6.66348G	6.7464G	78.081M	6.666019G	6.7441G	Inf	1
82.44M	6.66396G	6.7464G	77.961M	6.666139G	6.7441G	Inf	2
85.92M	6.66192G	6.74784G	78.201M	6.6659G	6.7441G	Inf	3
81.96M	6.66396G	6.74592G	78.081M	6.6659G	6.743981G	Inf	4

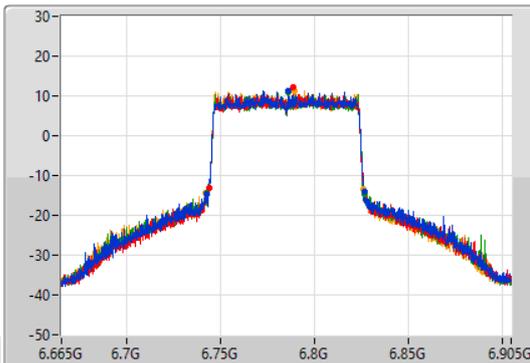
802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

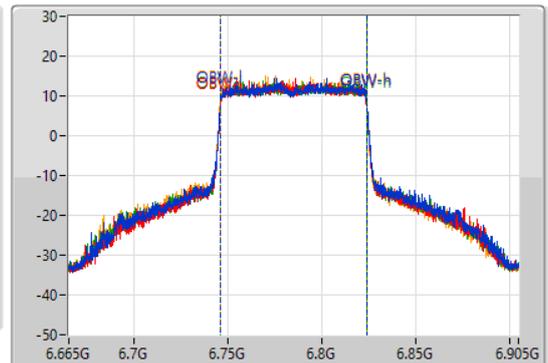
6785MHz

06/10/2021

CF
6.785GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.785GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.88M	6.74288G	6.82676G	78.081M	6.746019G	6.8241G	Inf	1
82.68M	6.74384G	6.82652G	77.961M	6.746019G	6.823981G	Inf	2
83.64M	6.74288G	6.82652G	78.081M	6.746019G	6.8241G	Inf	3
84.24M	6.7418G	6.82604G	78.081M	6.7459G	6.823981G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6865MHz Straddle 6.525-6.875GHz

06/10/2021

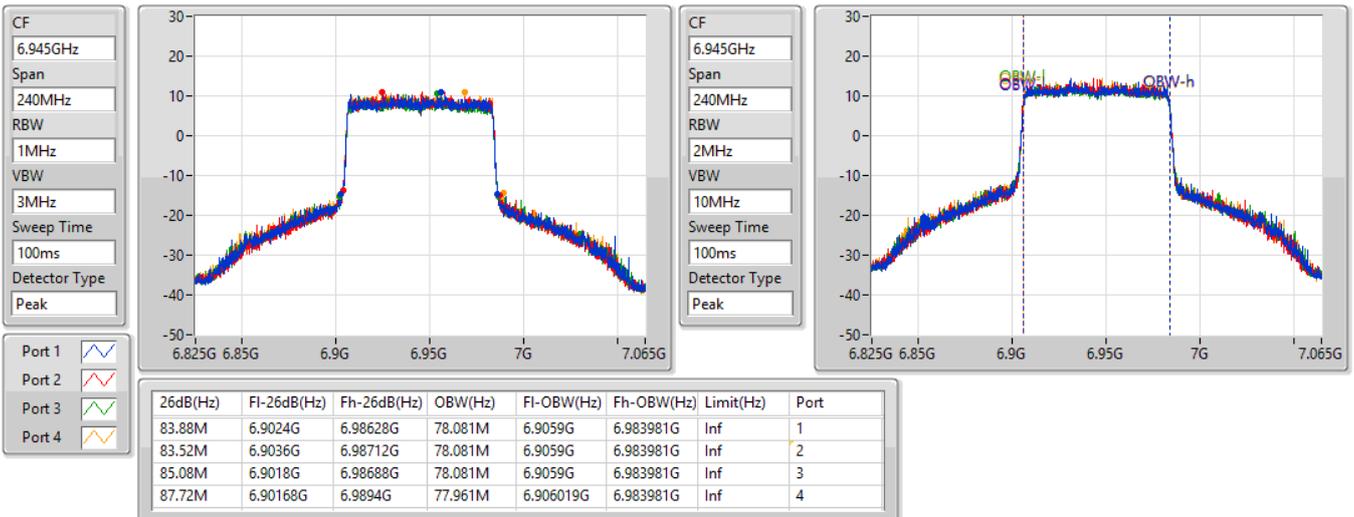


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

6945MHz

06/10/2021

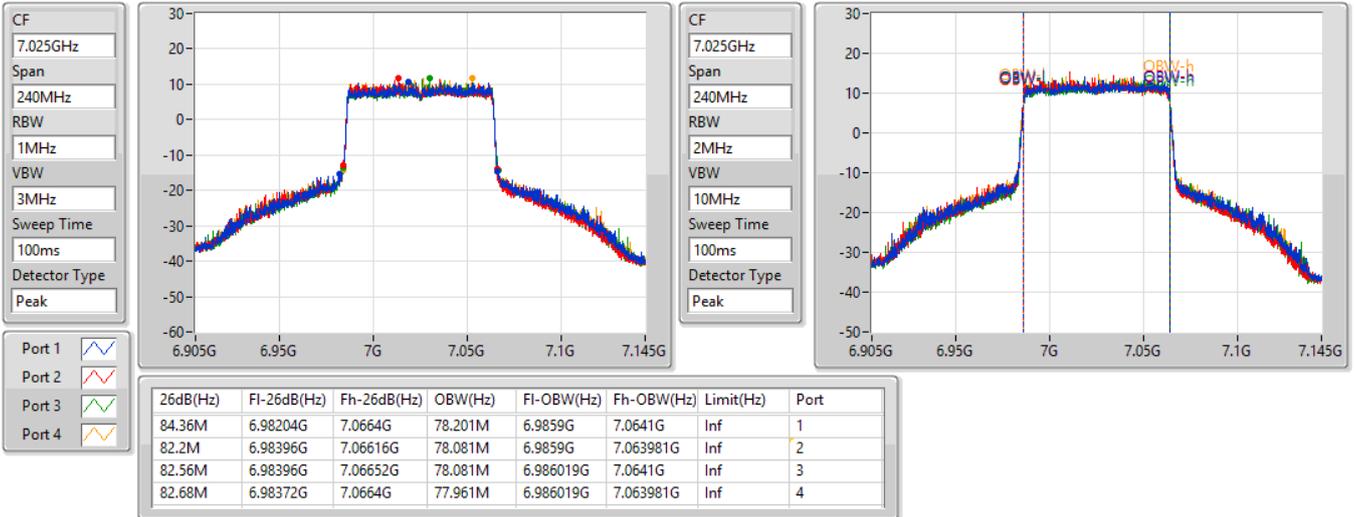


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

7025MHz

06/10/2021

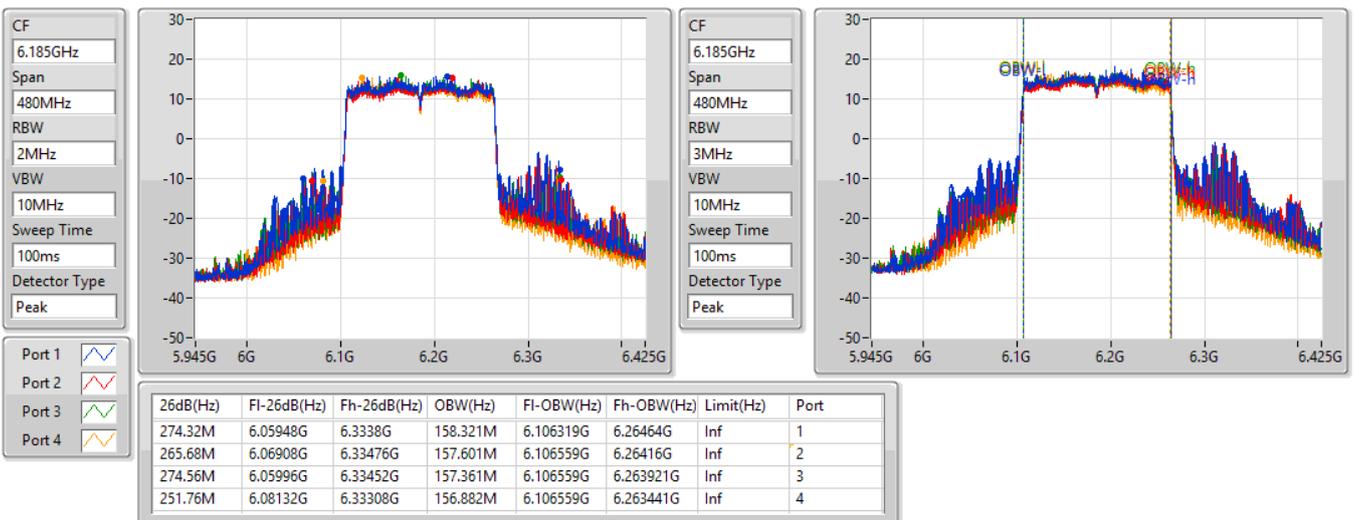


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

6185MHz

06/10/2021



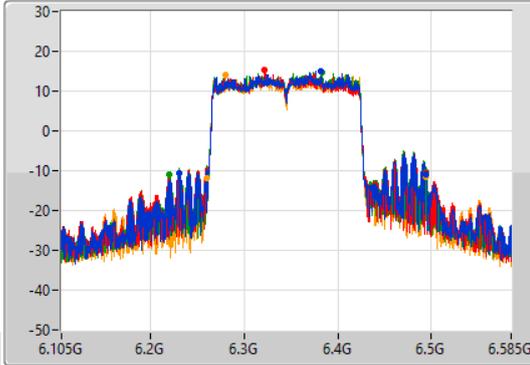
802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

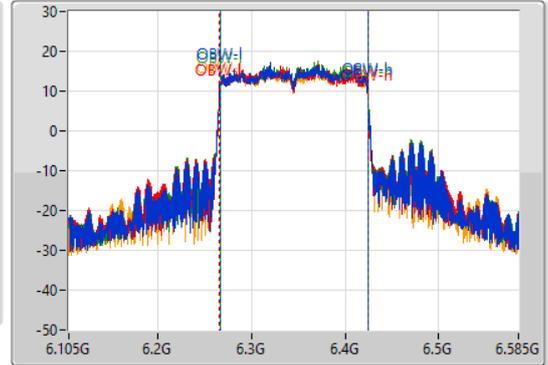
6345MHz

06/10/2021

CF
6.345GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.345GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
263.76M	6.23052G	6.49428G	157.601M	6.266319G	6.423921G	Inf	1
264.24M	6.23004G	6.49428G	158.321M	6.266079G	6.4244G	Inf	2
273.84M	6.22044G	6.49428G	158.081M	6.266319G	6.4244G	Inf	3
233.28M	6.26052G	6.4938G	157.841M	6.266319G	6.42416G	Inf	4

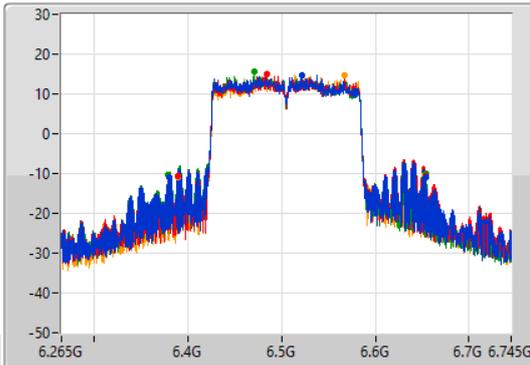
802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

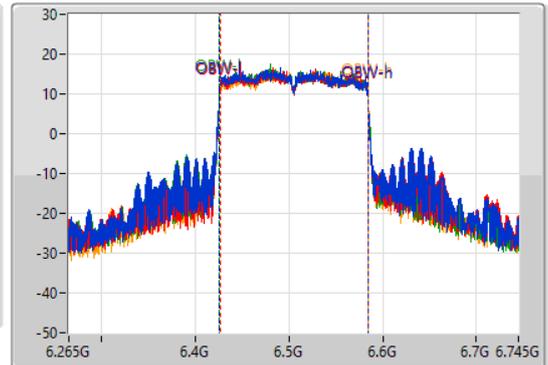
6505MHz Straddle 6.525-6.875GHz

06/10/2021

CF
6.505GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.505GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
274.32M	6.37972G	6.65404G	157.841M	6.426079G	6.583921G	Inf	1
265.2M	6.38884G	6.65404G	157.841M	6.426319G	6.58416G	Inf	2
274.32M	6.37924G	6.65356G	157.841M	6.426079G	6.583921G	Inf	3
264M	6.38932G	6.65332G	157.841M	6.426319G	6.58416G	Inf	4

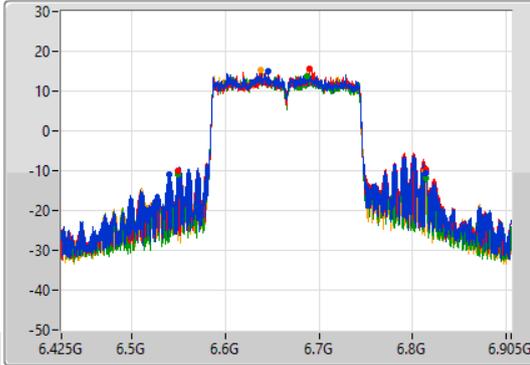
802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

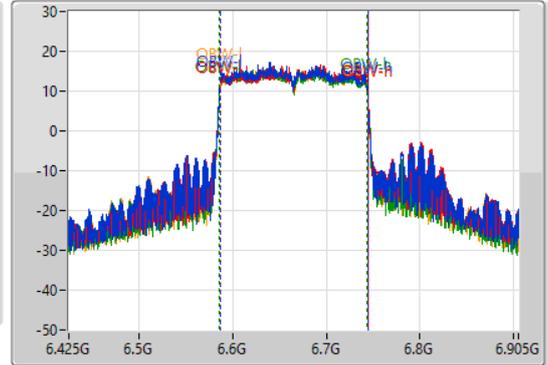
6665MHz

06/10/2021

CF
6.665GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.665GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
274.32M	6.53996G	6.81428G	157.841M	6.586319G	6.74416G	Inf	1
264.72M	6.54932G	6.81404G	158.081M	6.586319G	6.7444G	Inf	2
264.96M	6.54932G	6.81428G	157.601M	6.586079G	6.743681G	Inf	3
263.28M	6.54956G	6.81284G	157.601M	6.586319G	6.743921G	Inf	4

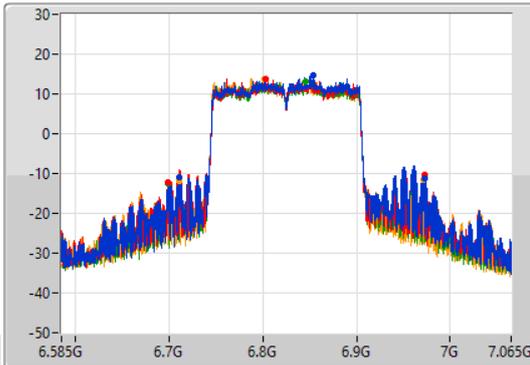
802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

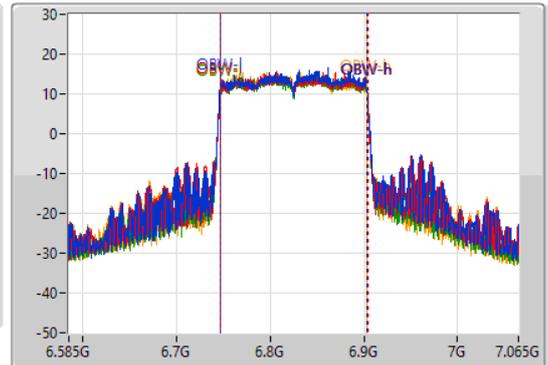
6825MHz Straddle 6.525-6.875GHz

06/10/2021

CF
6.825GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak

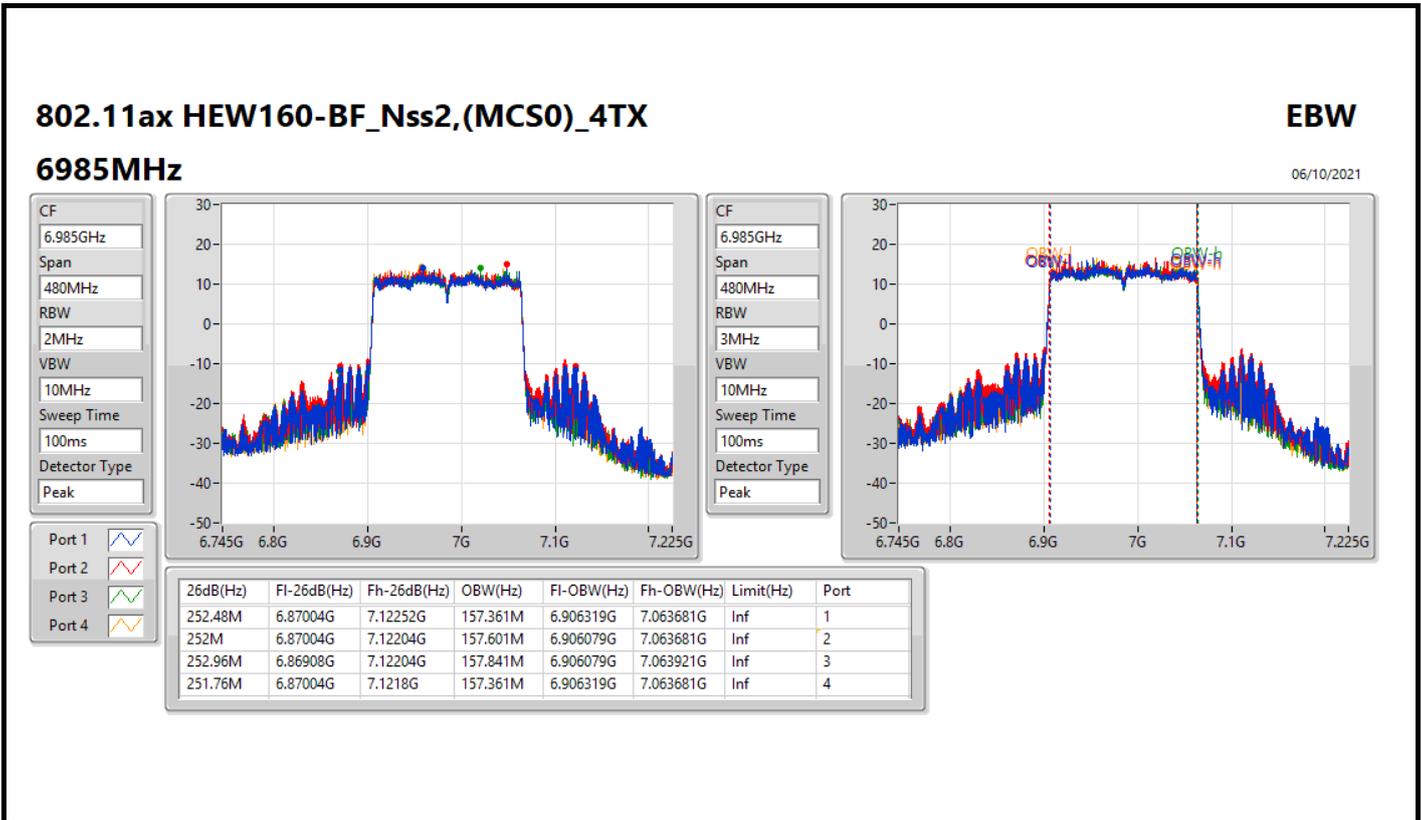


CF
6.825GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
263.04M	6.71004G	6.97308G	157.361M	6.746319G	6.903681G	Inf	1
273.36M	6.699G	6.97236G	157.601M	6.746319G	6.903921G	Inf	2
273.36M	6.699G	6.97236G	157.361M	6.746319G	6.903681G	Inf	3
261.6M	6.71004G	6.97164G	157.121M	6.746319G	6.903441G	Inf	4





Summary

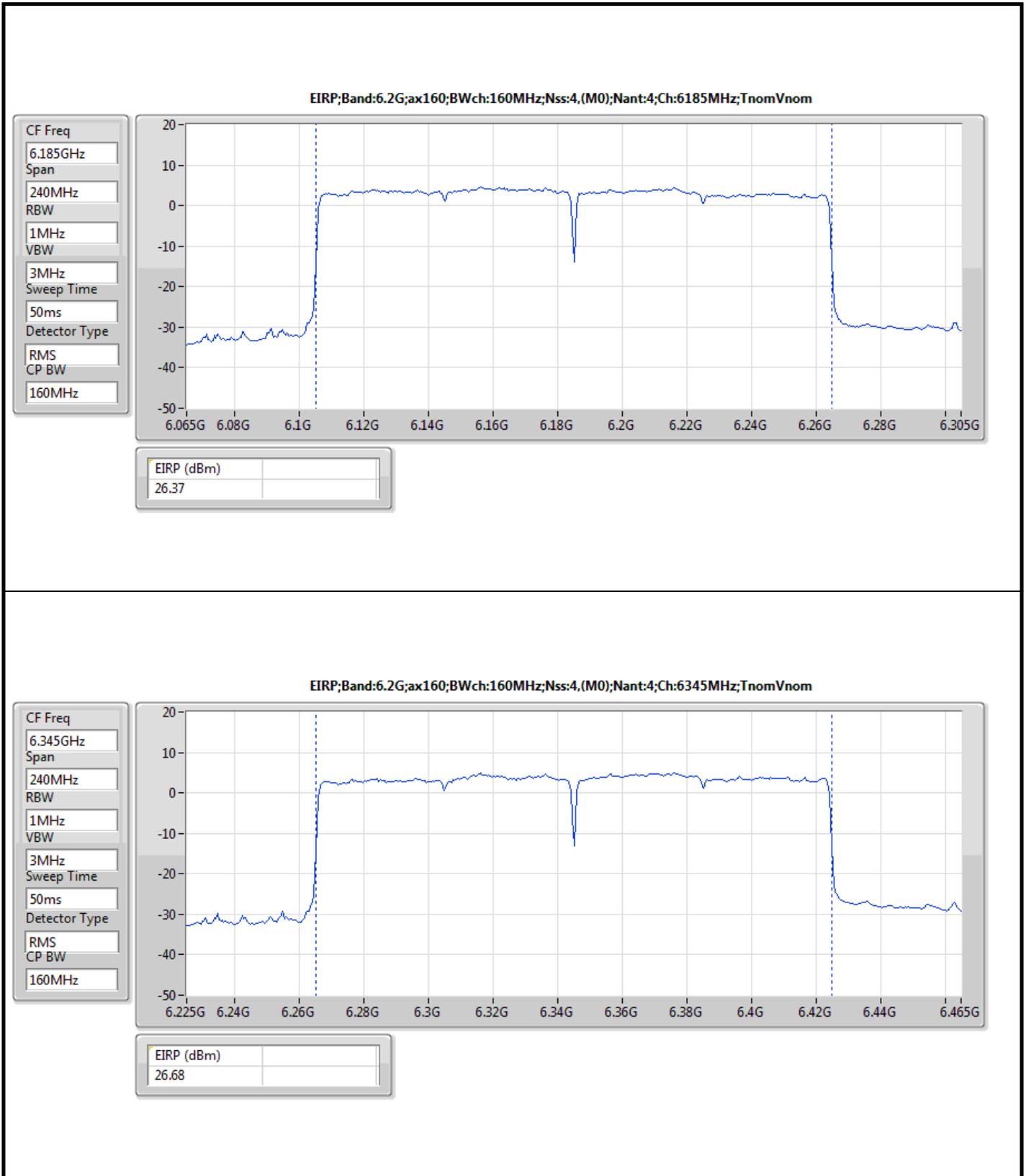
Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	26.68	0.46559
6.425-6.525GHz	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	26.56	0.45290
6.525-6.875GHz	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	26.24	0.42073
6.875-7.125GHz	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	26.36	0.43251

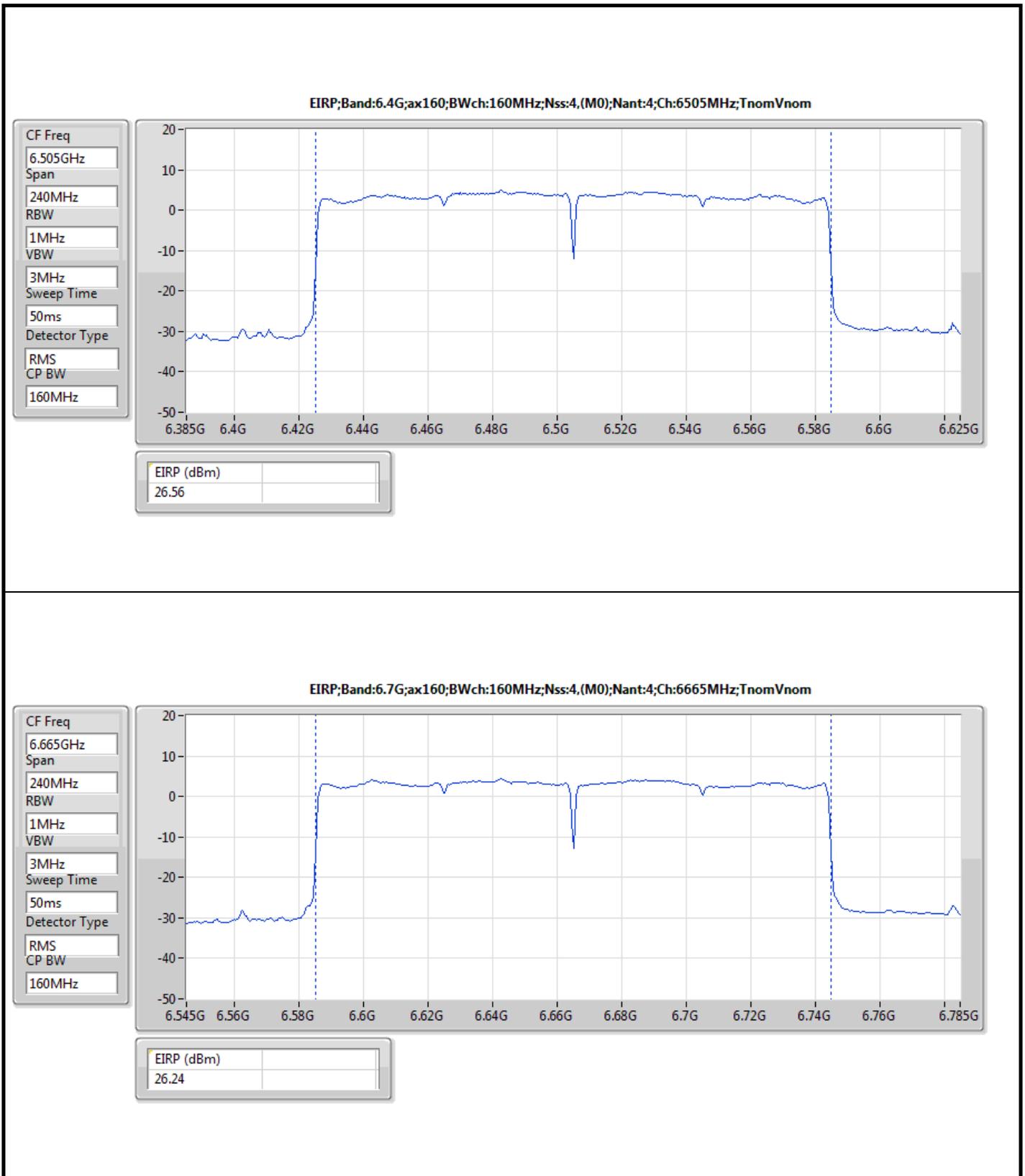


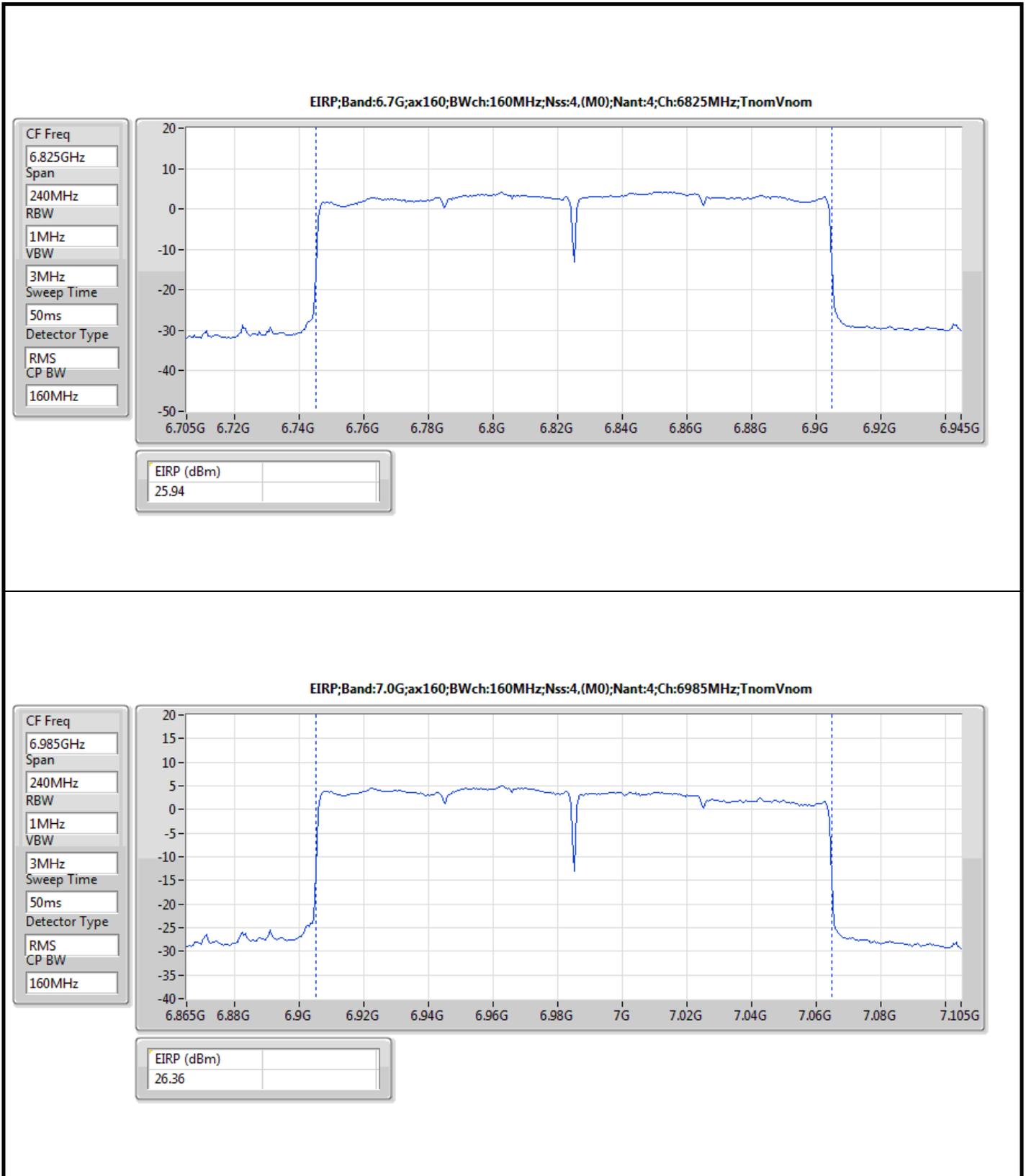
Result

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-
6185MHz	Pass	26.37	30.00
6345MHz	Pass	26.68	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	26.56	30.00
6665MHz	Pass	26.24	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	25.94	30.00
6985MHz	Pass	26.36	30.00

DG = Directional Gain
The test result used radiated measurement.









Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	17.77	0.05984
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	21.26	0.13366
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.36	0.27290
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	26.95	0.49545
6.425-6.525GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	17.46	0.05572
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	20.70	0.11749
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.54	0.28445
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	26.07	0.40458
6.525-6.875GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	17.13	0.05164
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	21.91	0.15524
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.54	0.28445
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	25.74	0.37497
6.875-7.125GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.81	0.04797
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.01	0.15885
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.22	0.26424
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	27.10	0.51286

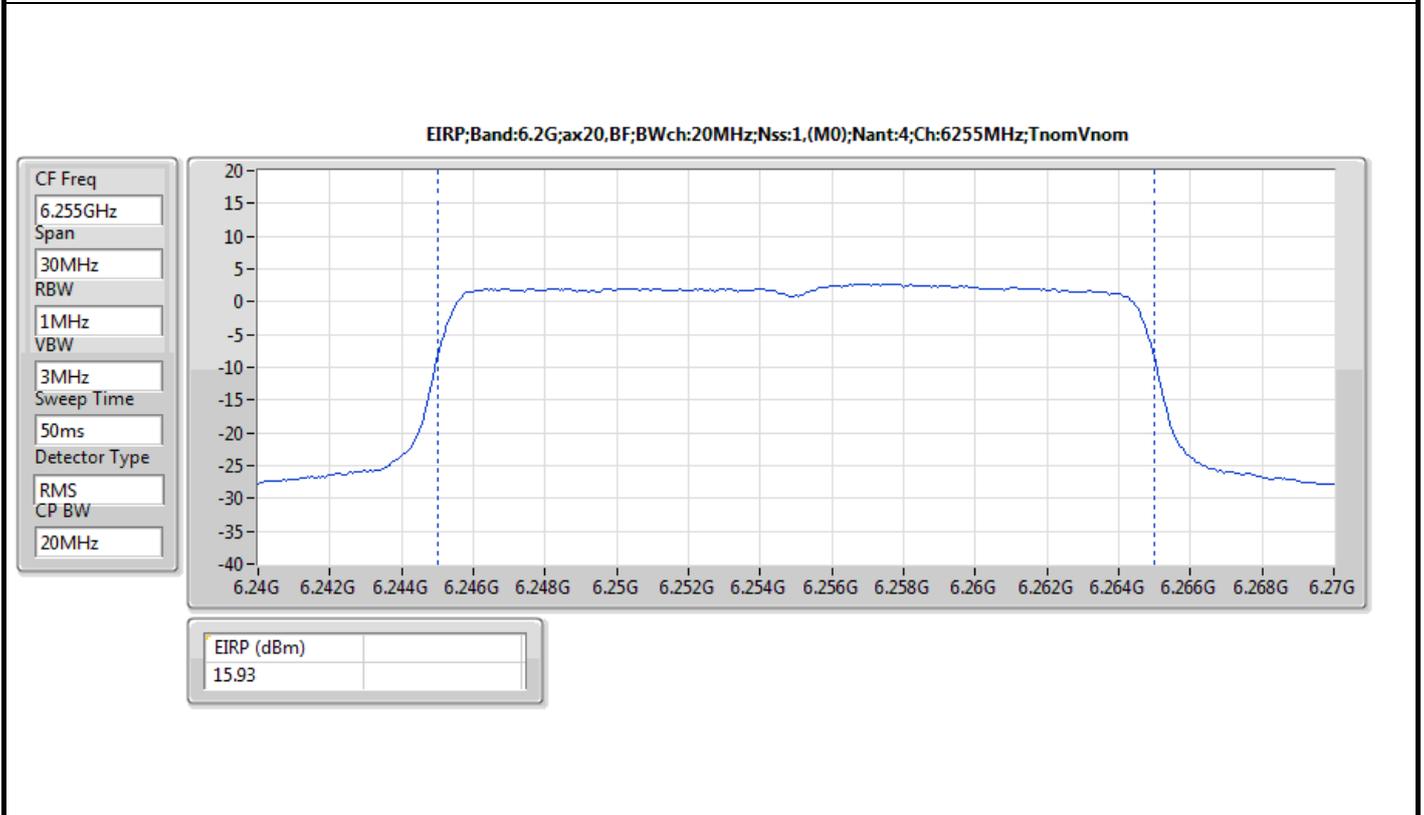
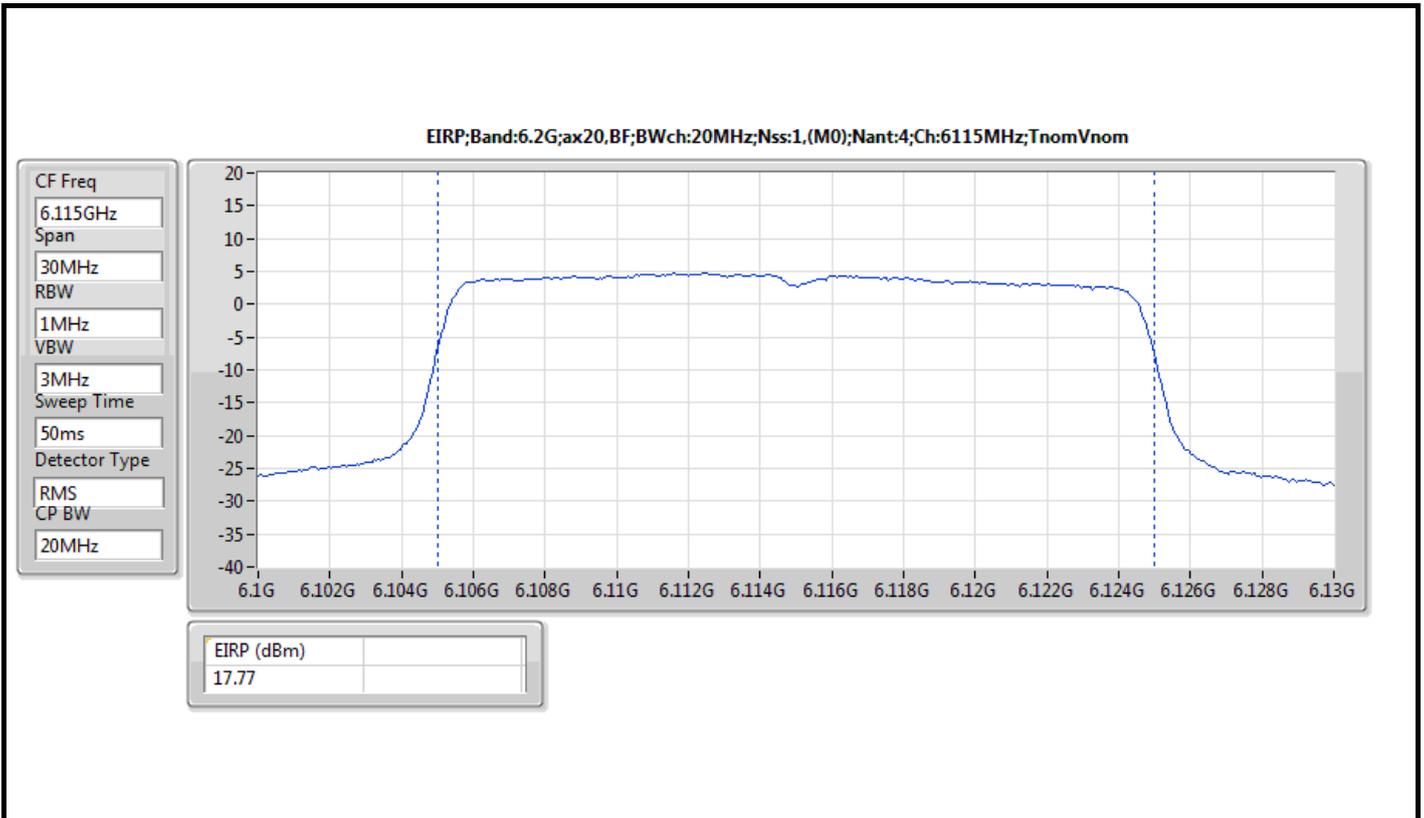


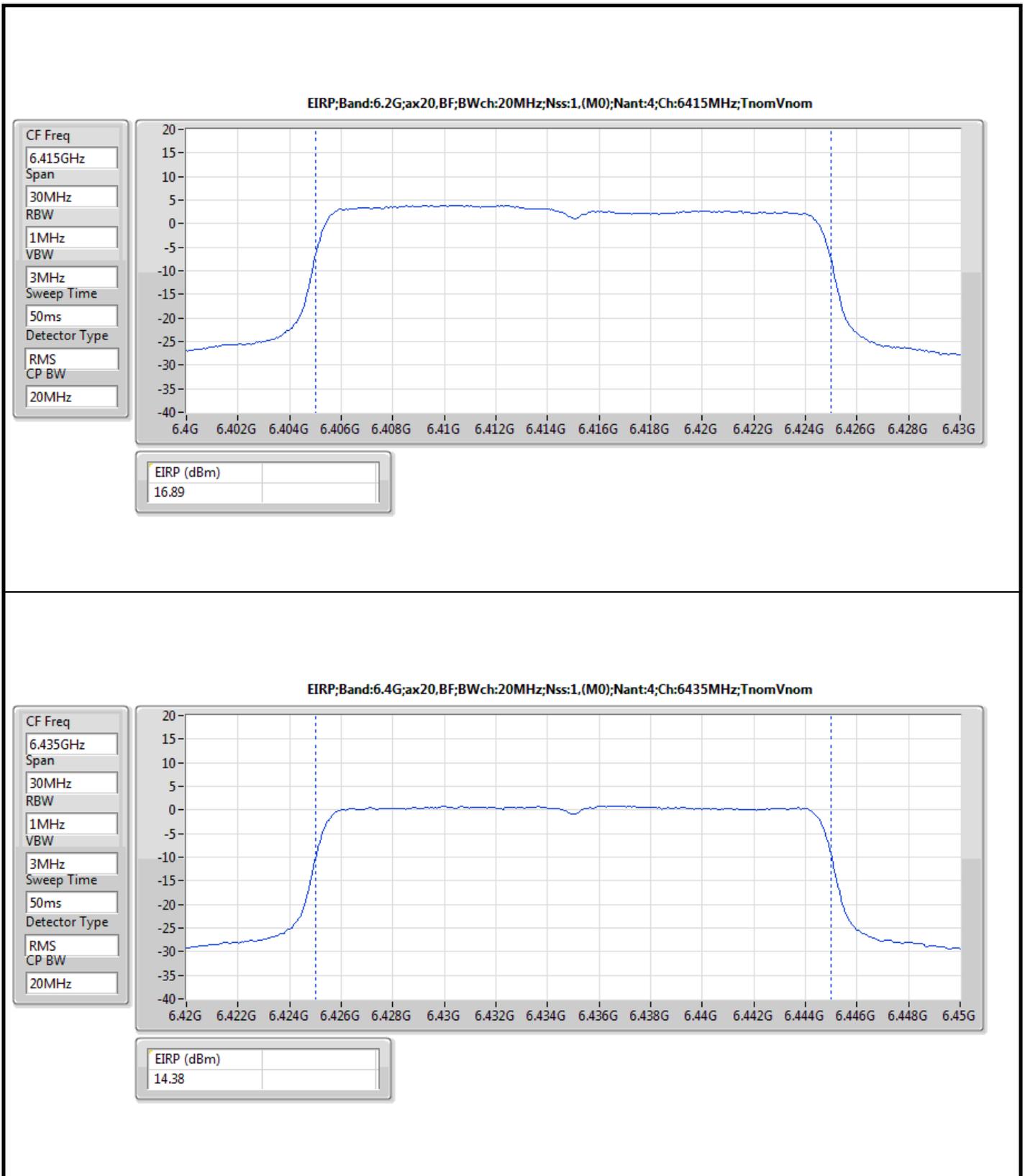
Result

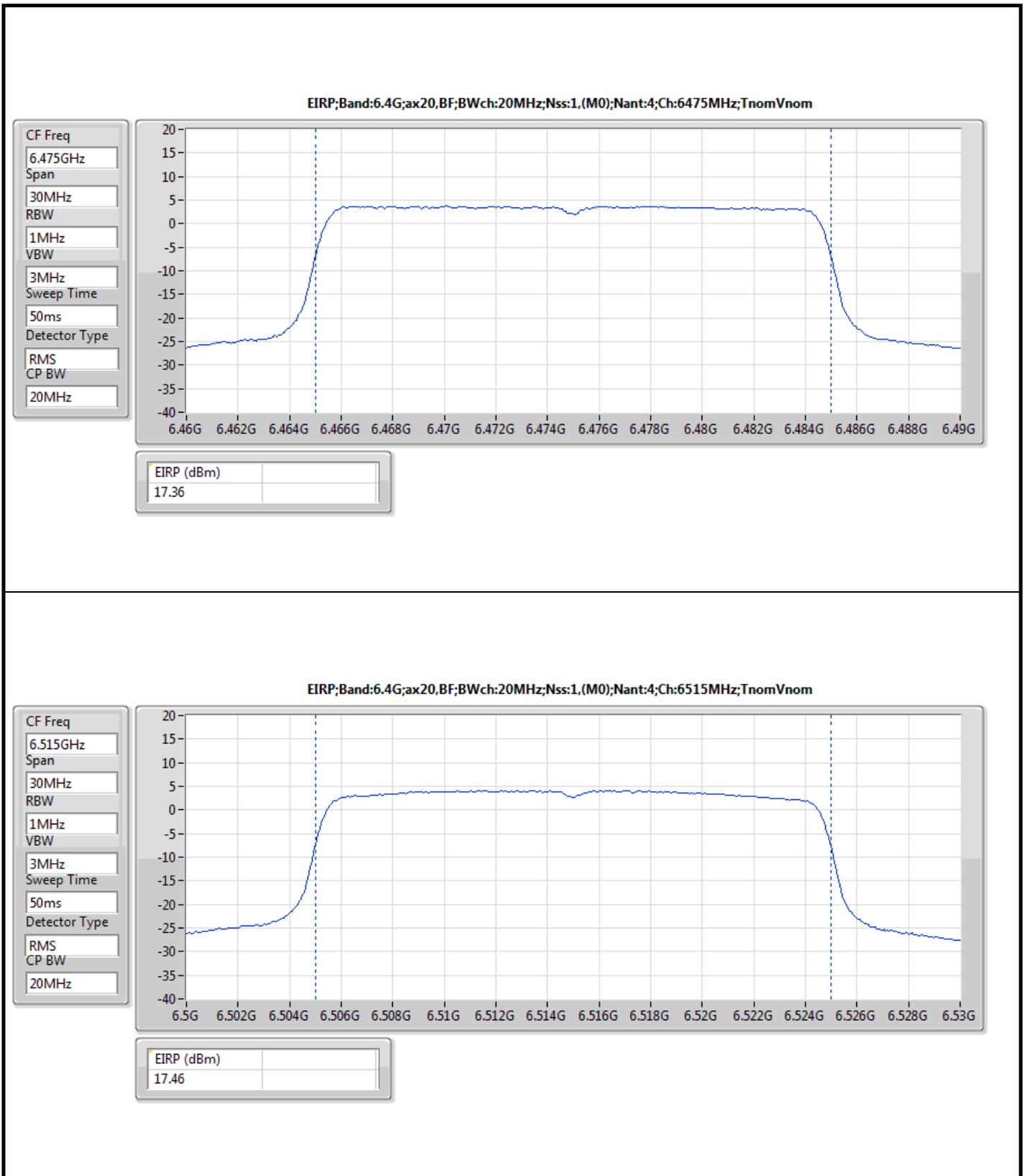
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-
6115MHz	Pass	17.77	30.00
6255MHz	Pass	15.93	30.00
6415MHz	Pass	16.89	30.00
6435MHz	Pass	14.38	30.00
6475MHz	Pass	17.36	30.00
6515MHz	Pass	17.46	30.00
6535MHz	Pass	15.94	30.00
6695MHz	Pass	15.84	30.00
6855MHz	Pass	17.13	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	16.14	30.00
6895MHz	Pass	16.81	30.00
6995MHz	Pass	16.44	30.00
7095MHz	Pass	16.56	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-
6125MHz	Pass	20.56	30.00
6245MHz	Pass	21.26	30.00
6405MHz	Pass	19.94	30.00
6445MHz	Pass	19.80	30.00
6485MHz	Pass	20.34	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	20.70	30.00
6565MHz	Pass	20.87	30.00
6685MHz	Pass	20.09	30.00
6845MHz	Pass	20.57	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	21.91	30.00
6925MHz	Pass	20.00	30.00
7005MHz	Pass	22.01	30.00
7085MHz	Pass	20.58	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-
6145MHz	Pass	24.36	30.00
6225MHz	Pass	23.60	30.00
6385MHz	Pass	23.11	30.00
6465MHz	Pass	23.50	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	24.54	30.00
6625MHz	Pass	23.07	30.00
6705MHz	Pass	23.33	30.00
6785MHz	Pass	23.72	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	24.54	30.00
6945MHz	Pass	24.22	30.00
7025MHz	Pass	23.71	30.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-
6185MHz	Pass	26.95	30.00
6345MHz	Pass	25.65	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	26.07	30.00
6665MHz	Pass	24.98	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	25.74	30.00
6985MHz	Pass	27.10	30.00

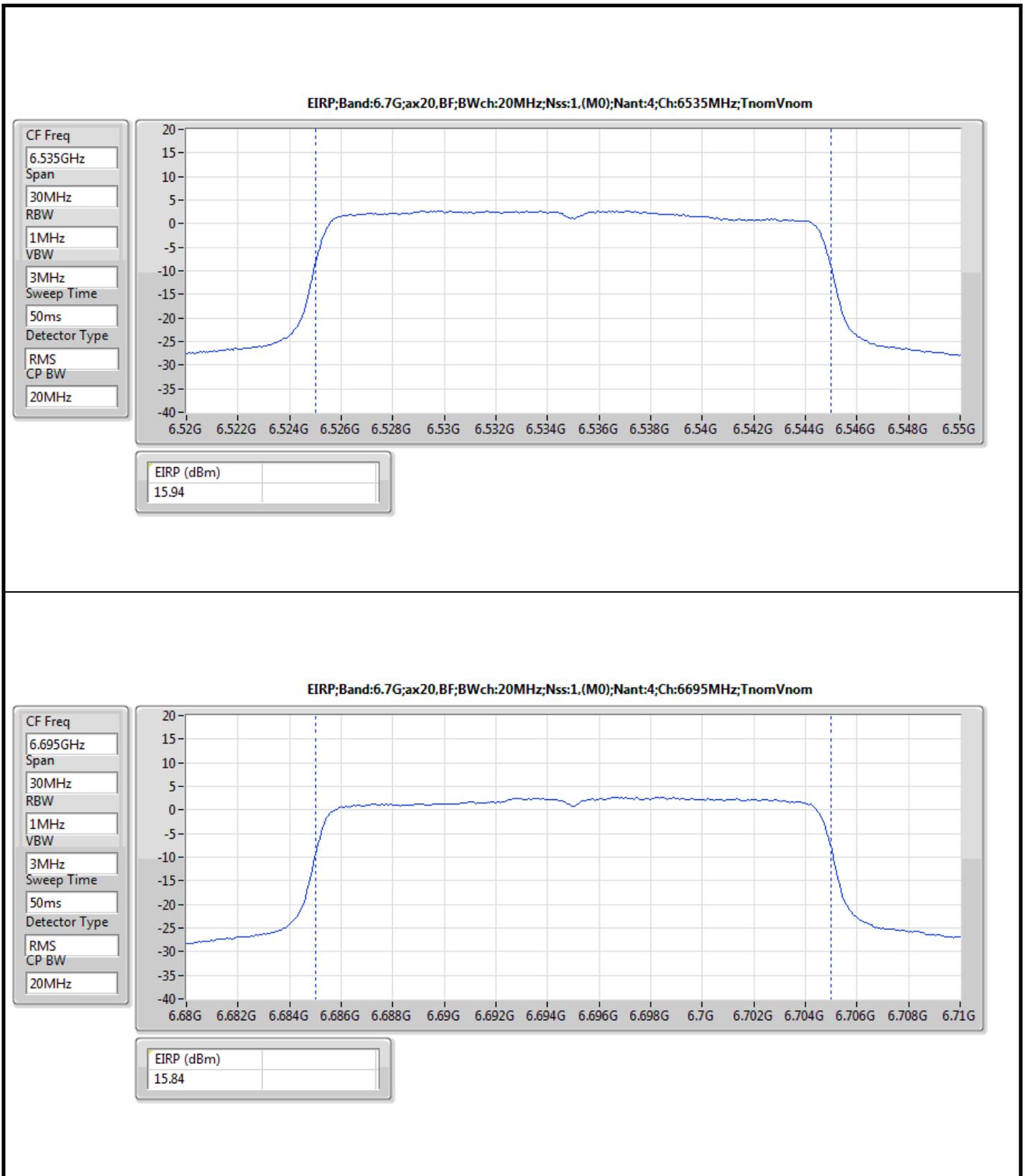
DG = Directional Gain

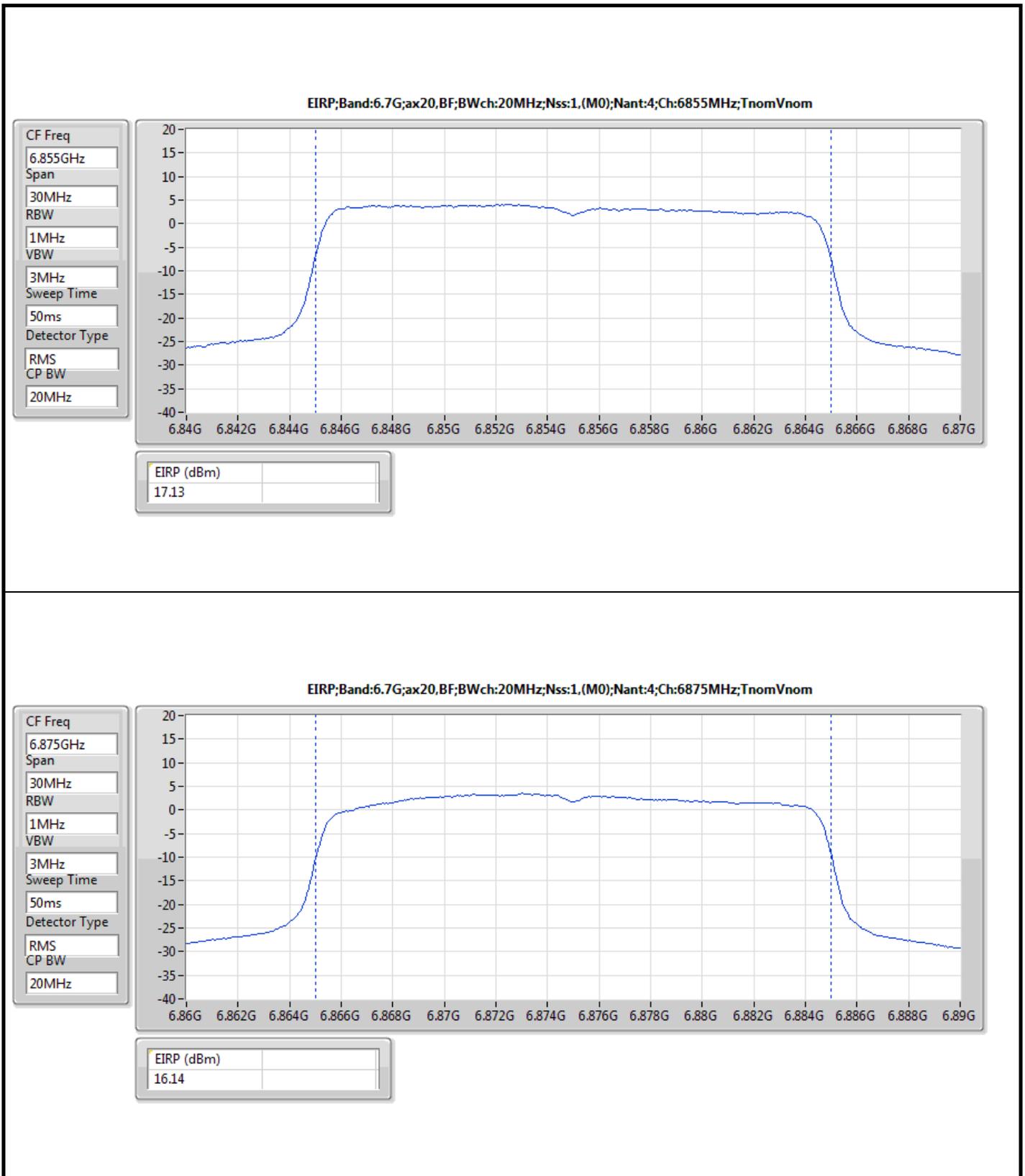
The test result used radiated measurement.

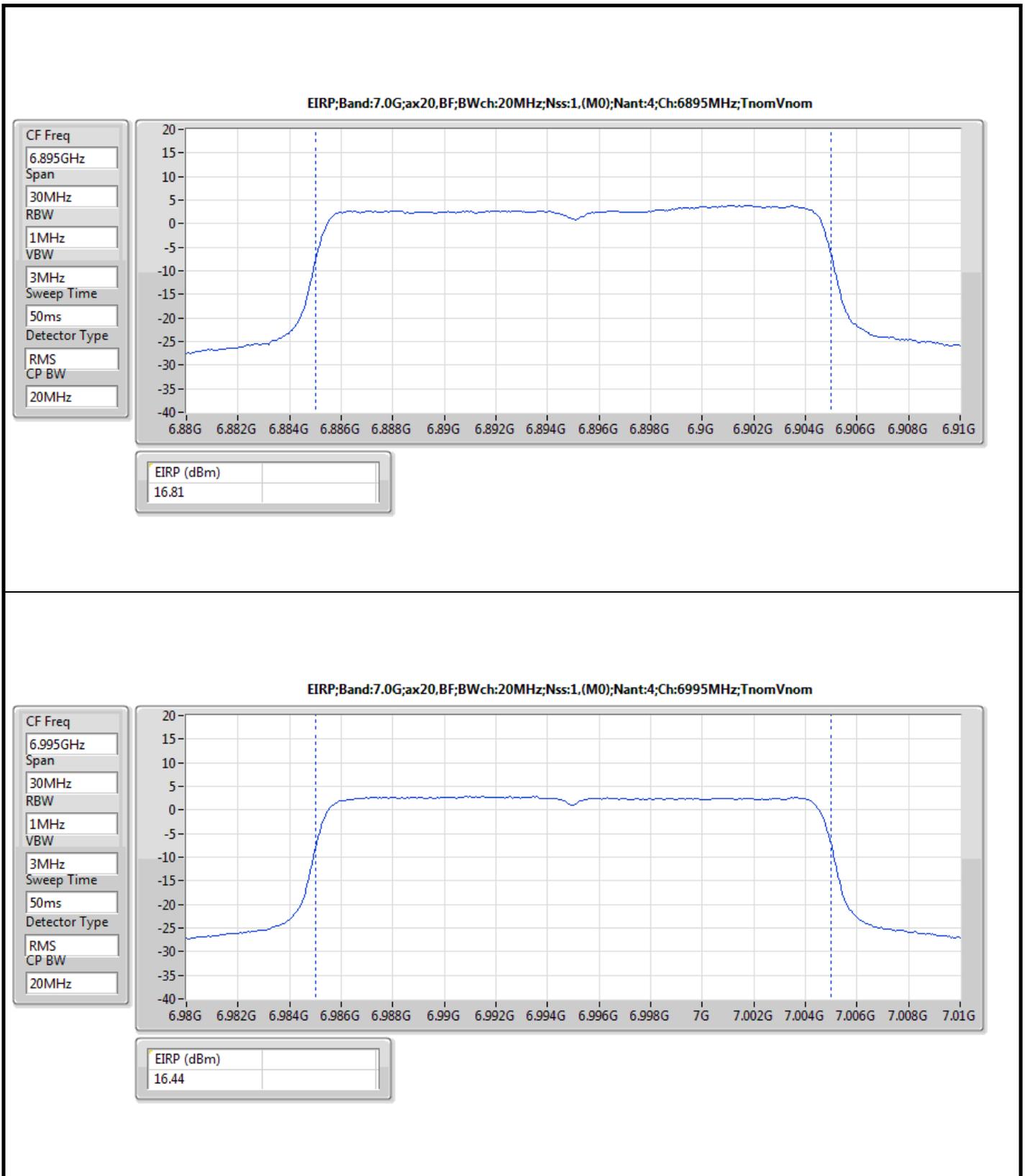


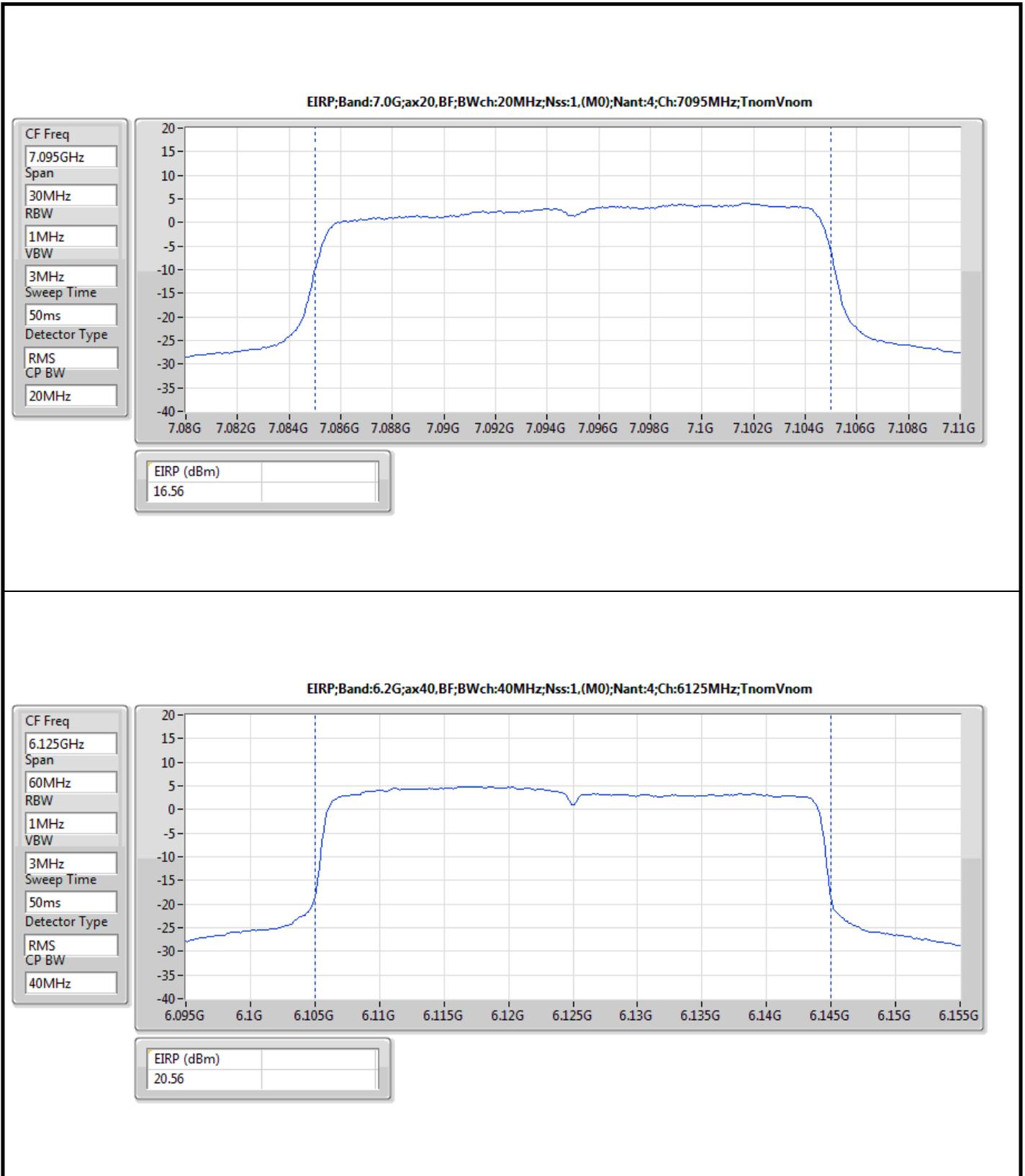


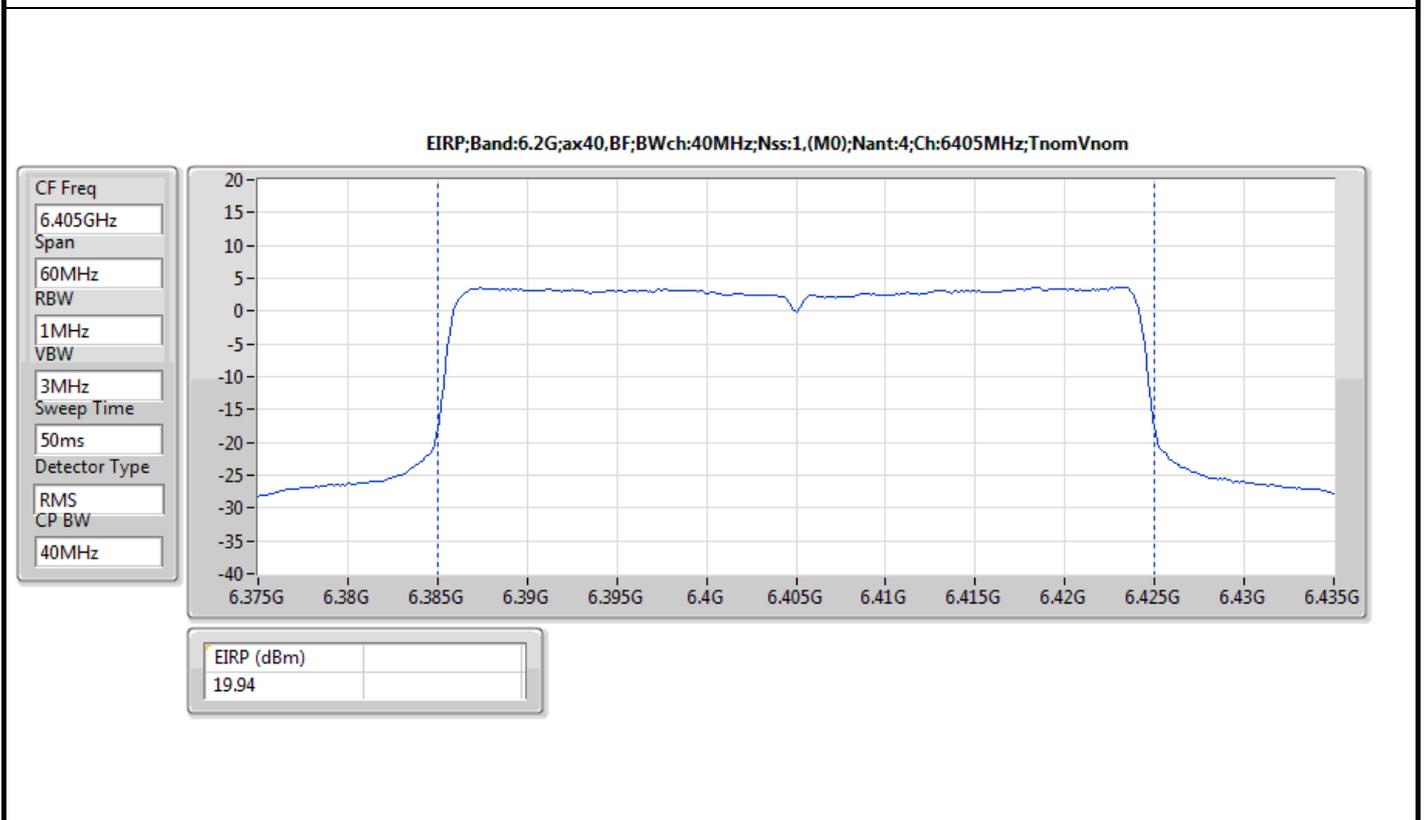
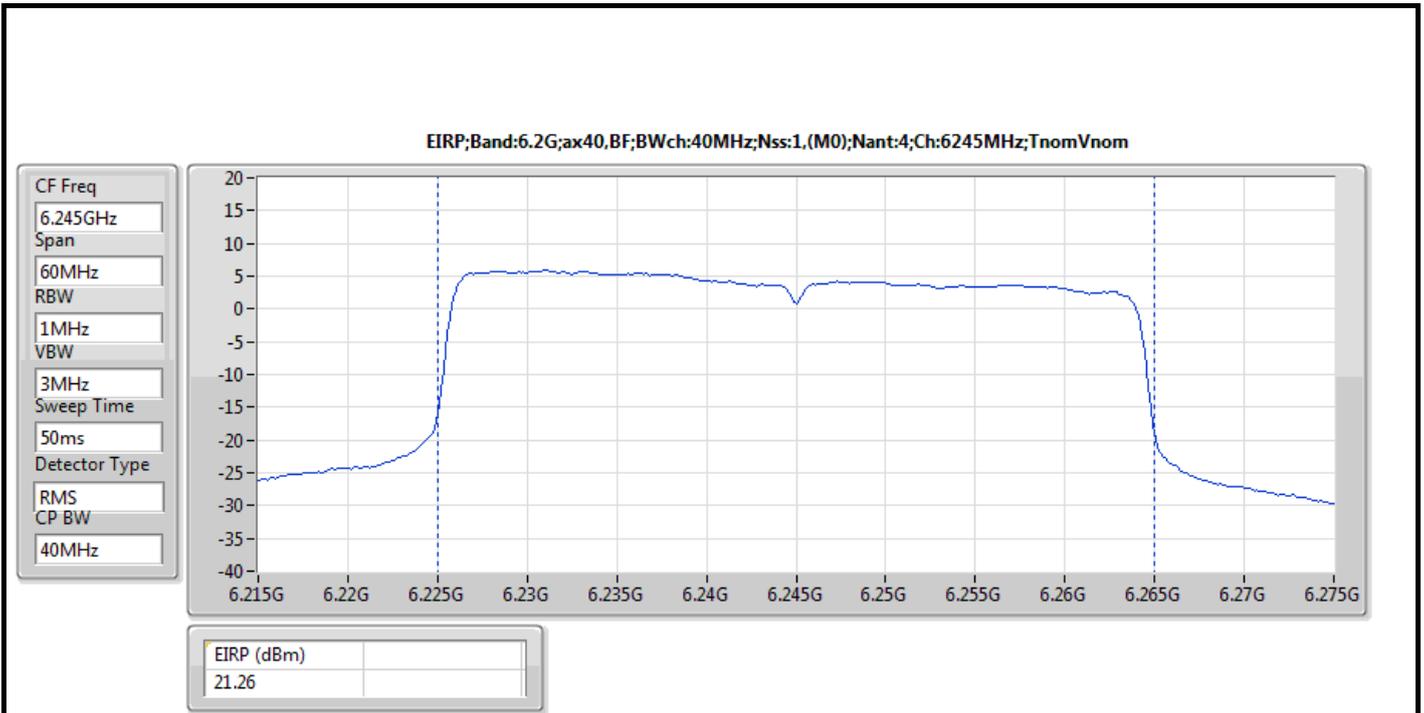


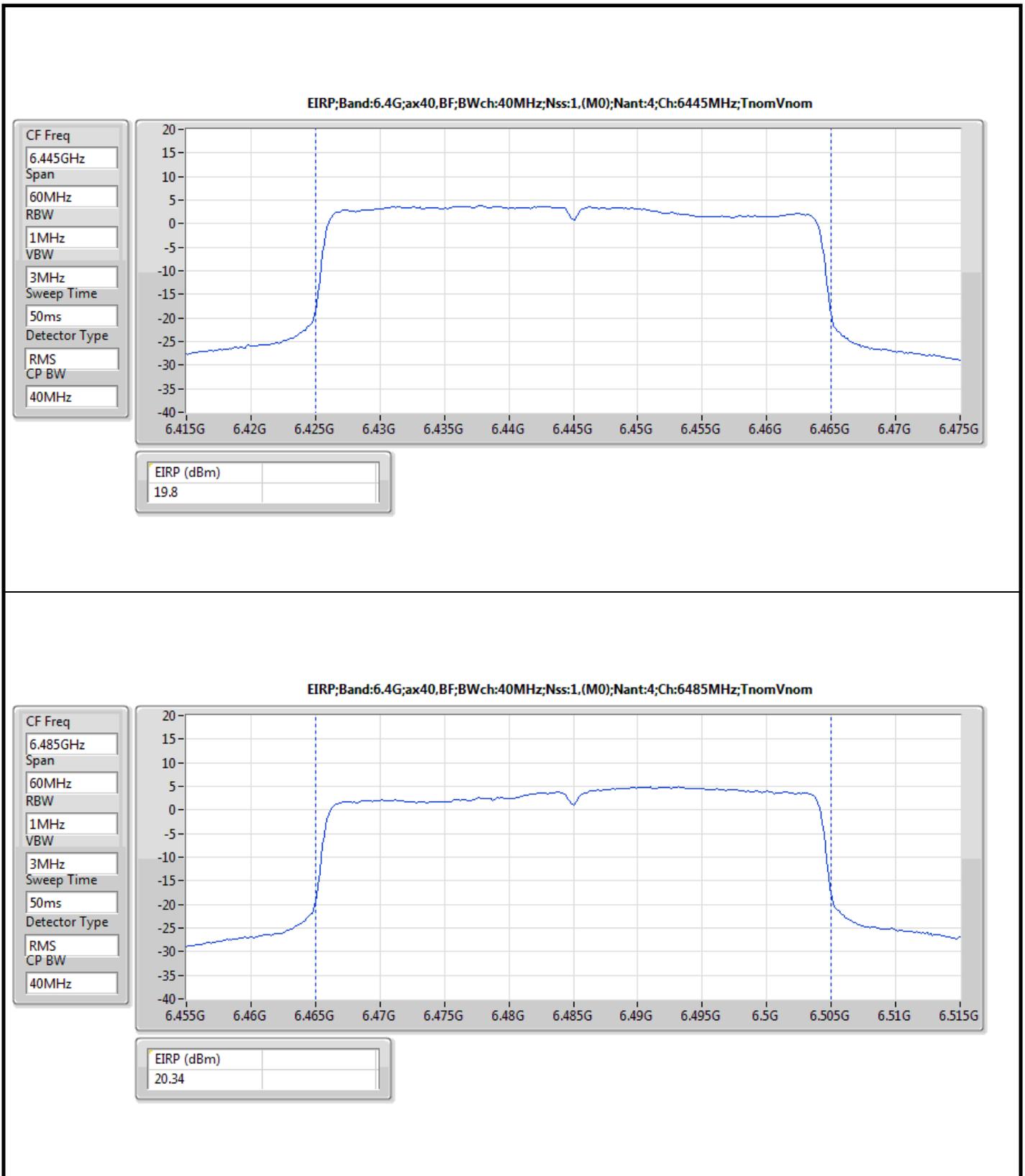


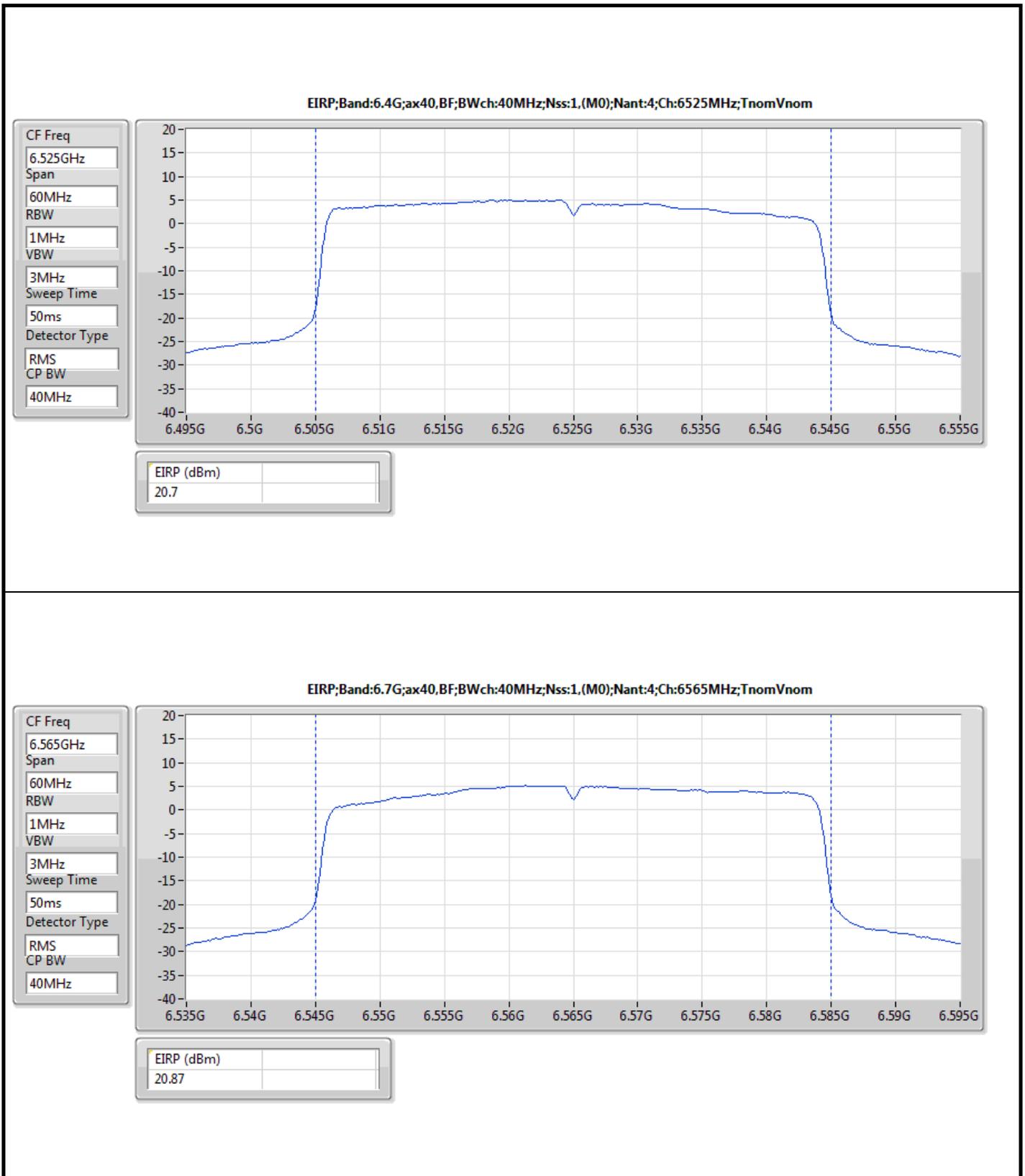


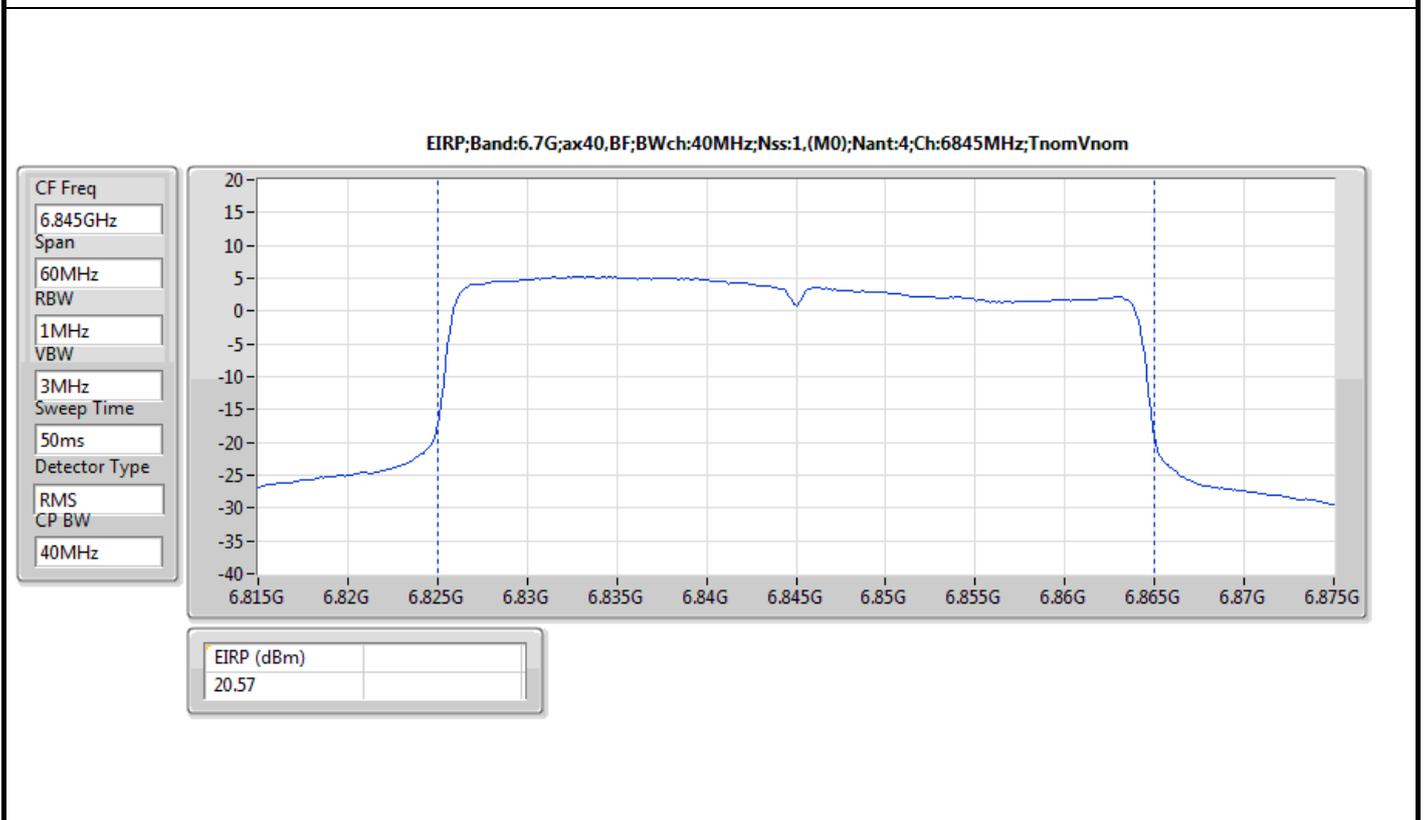
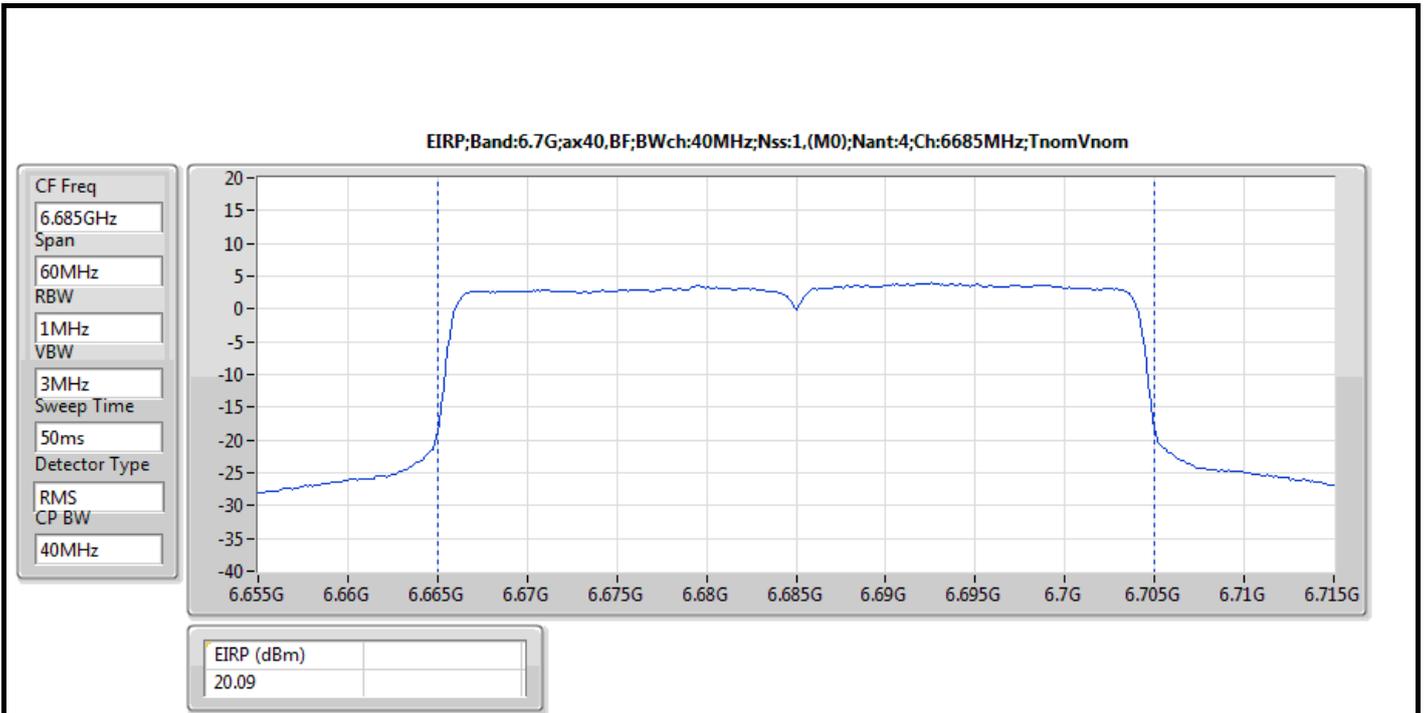


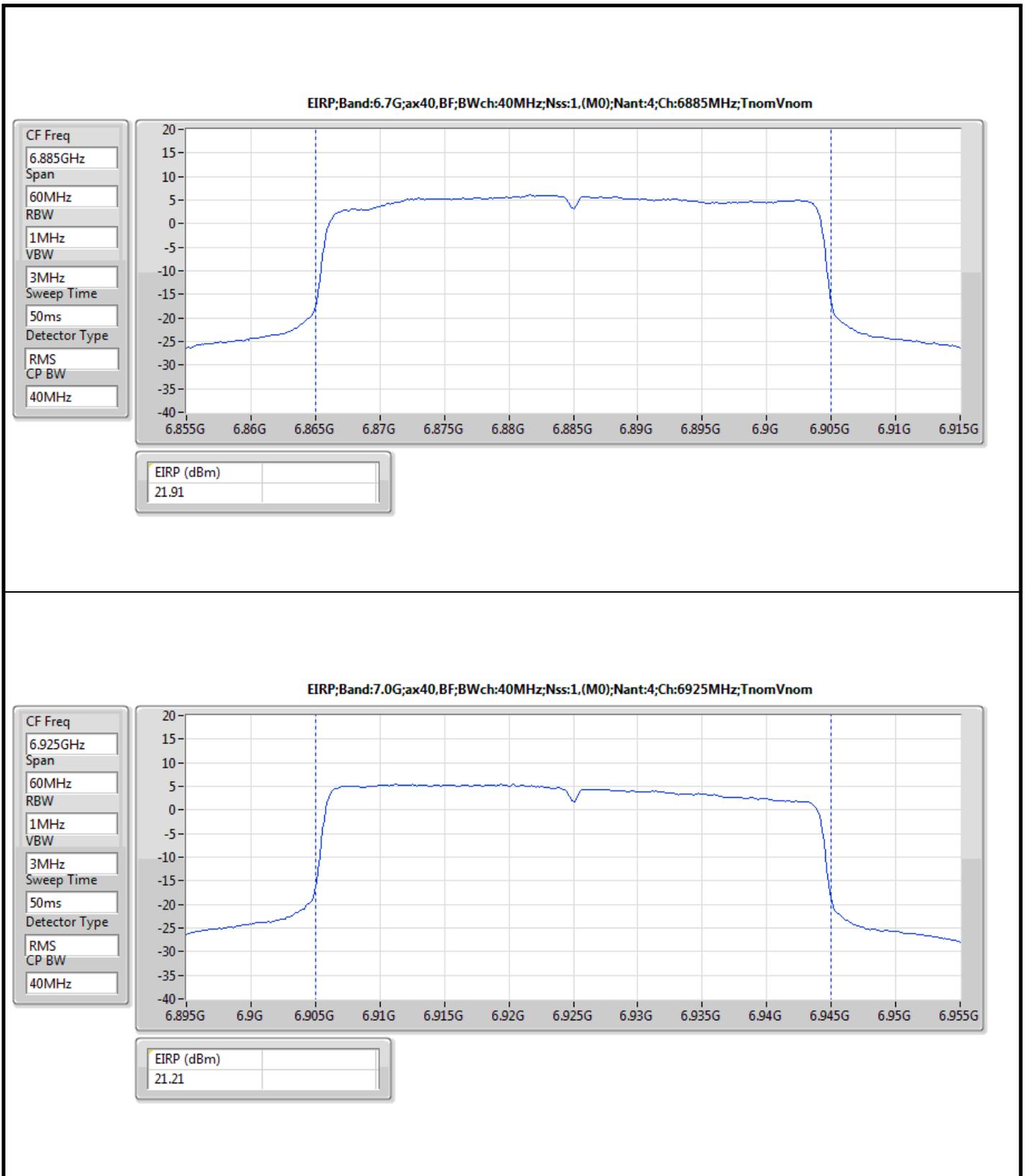


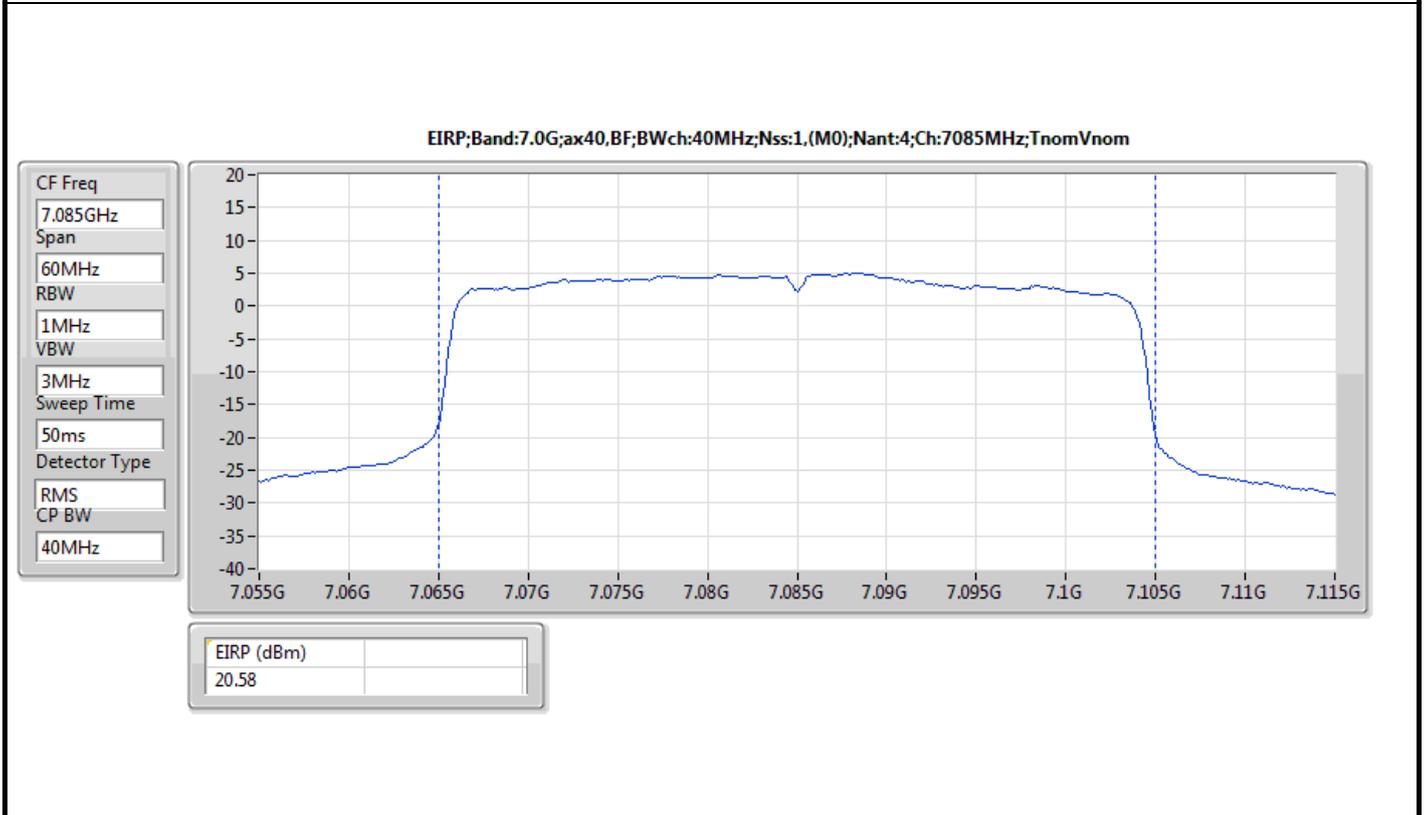
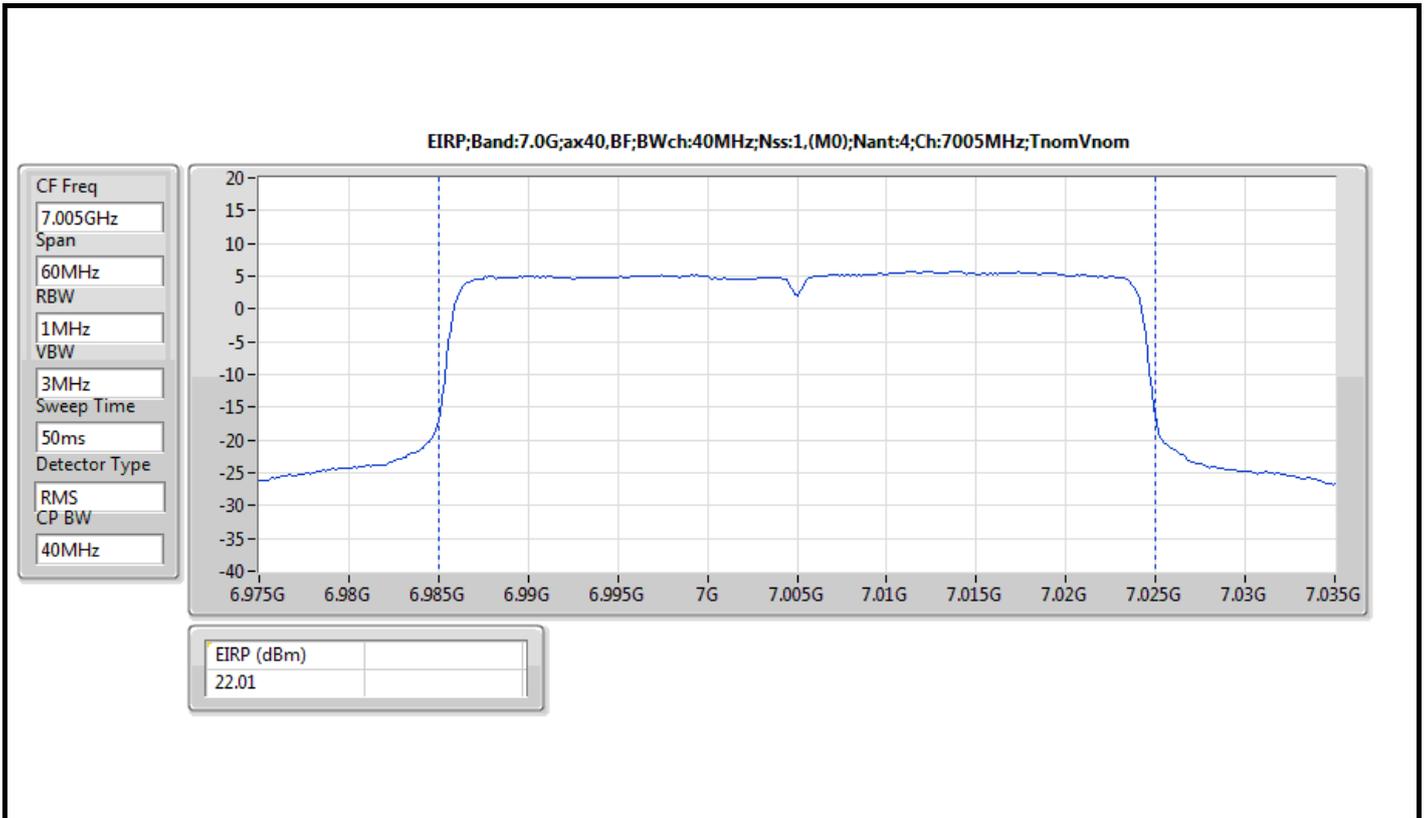


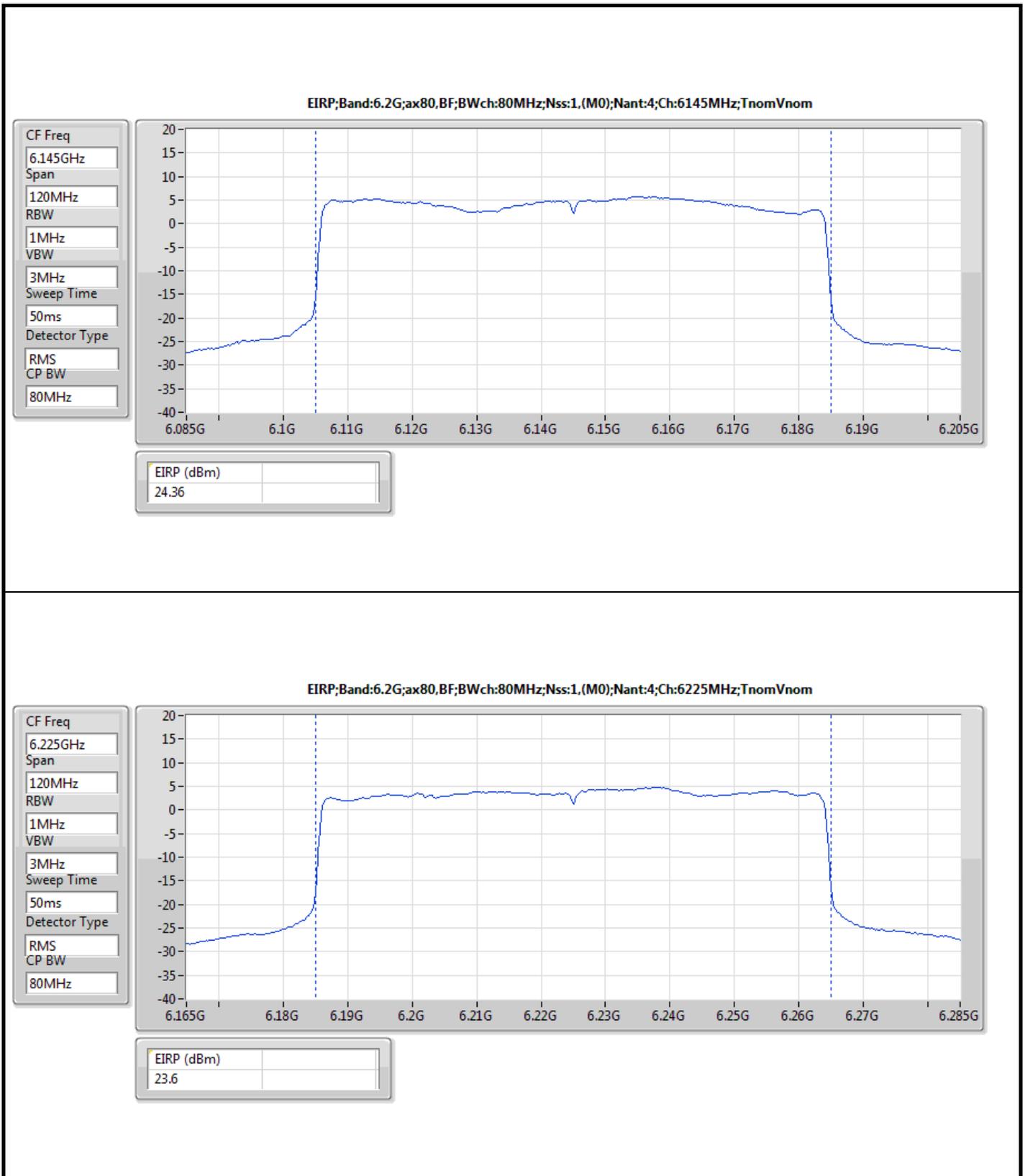


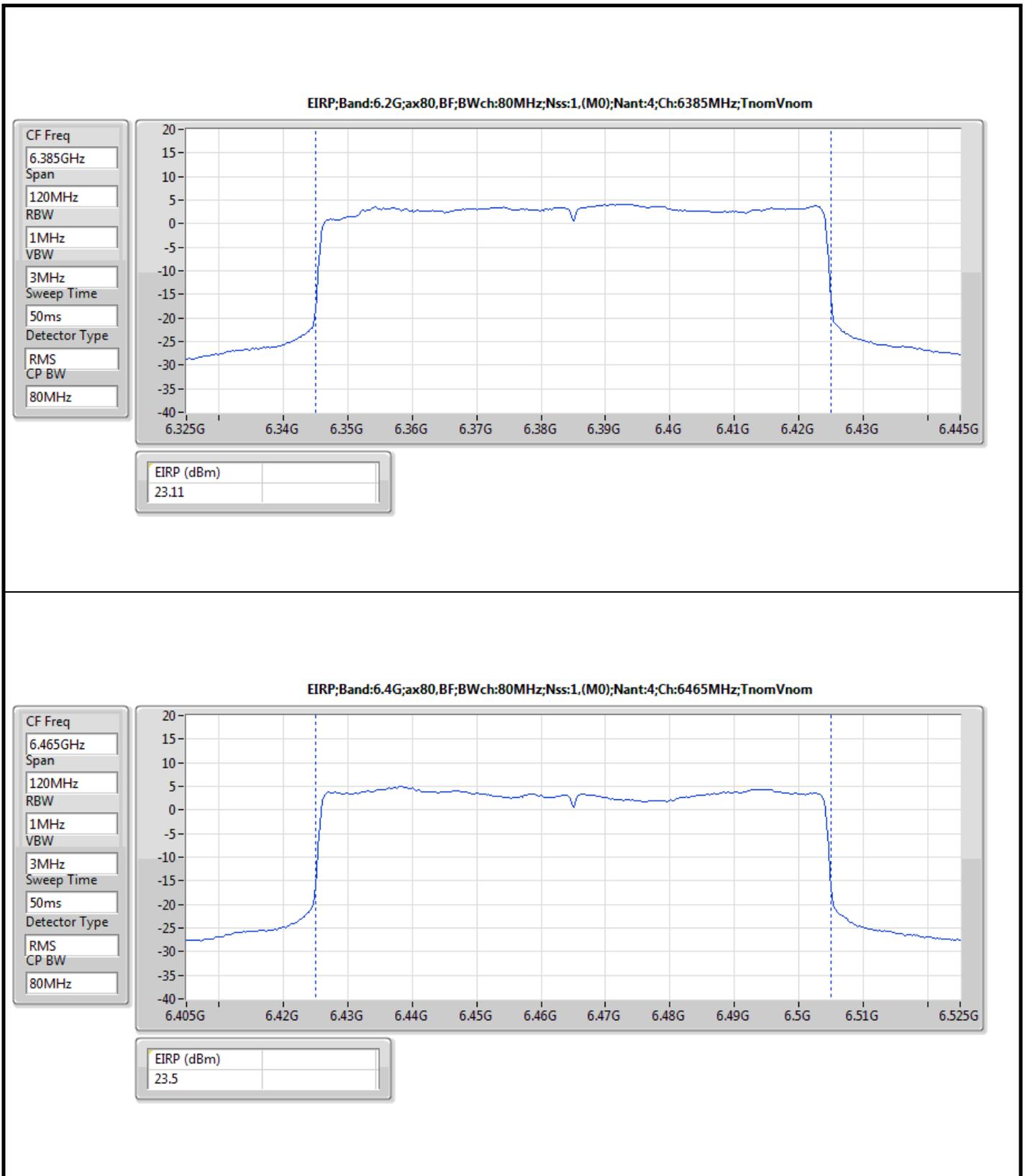


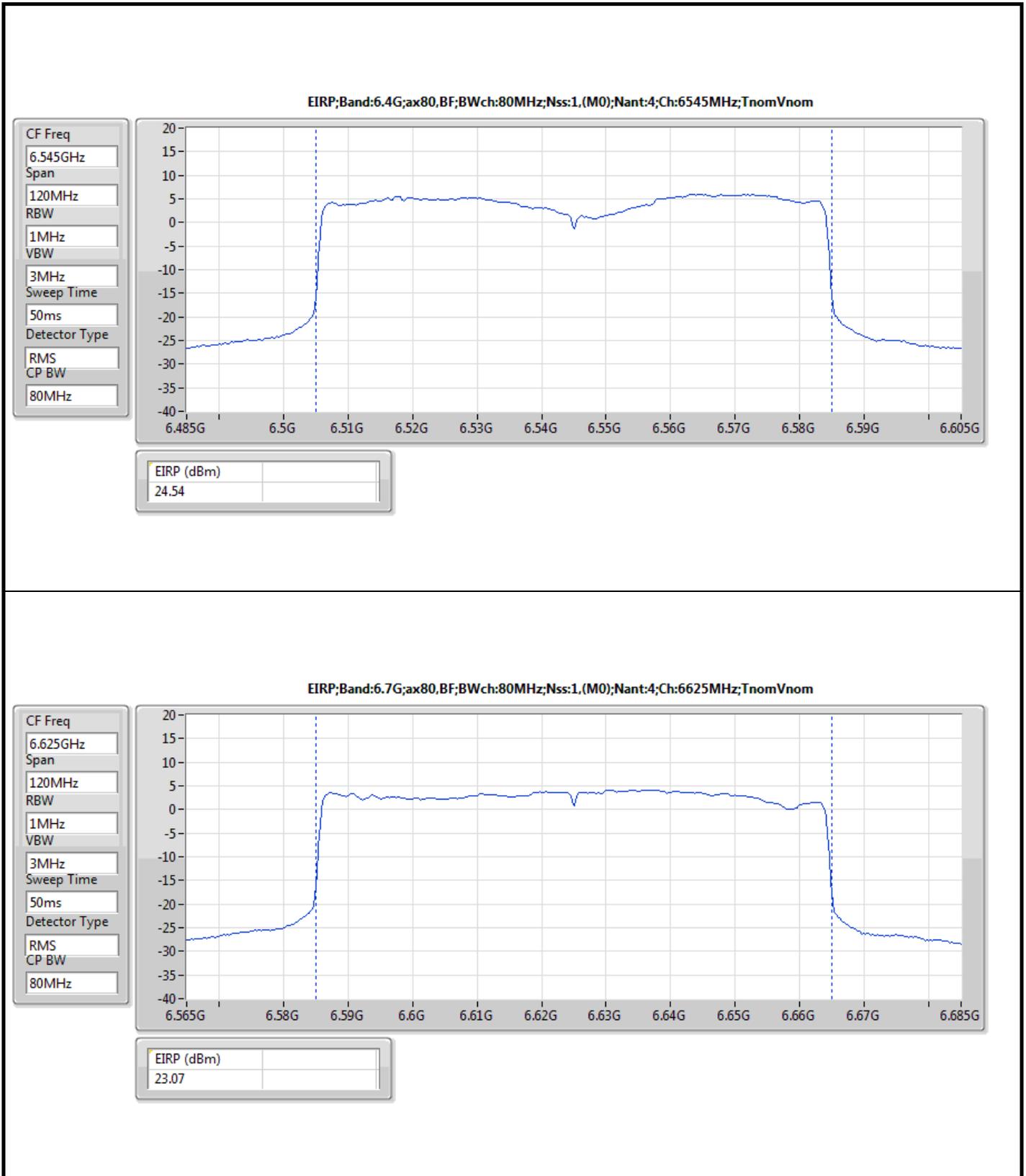


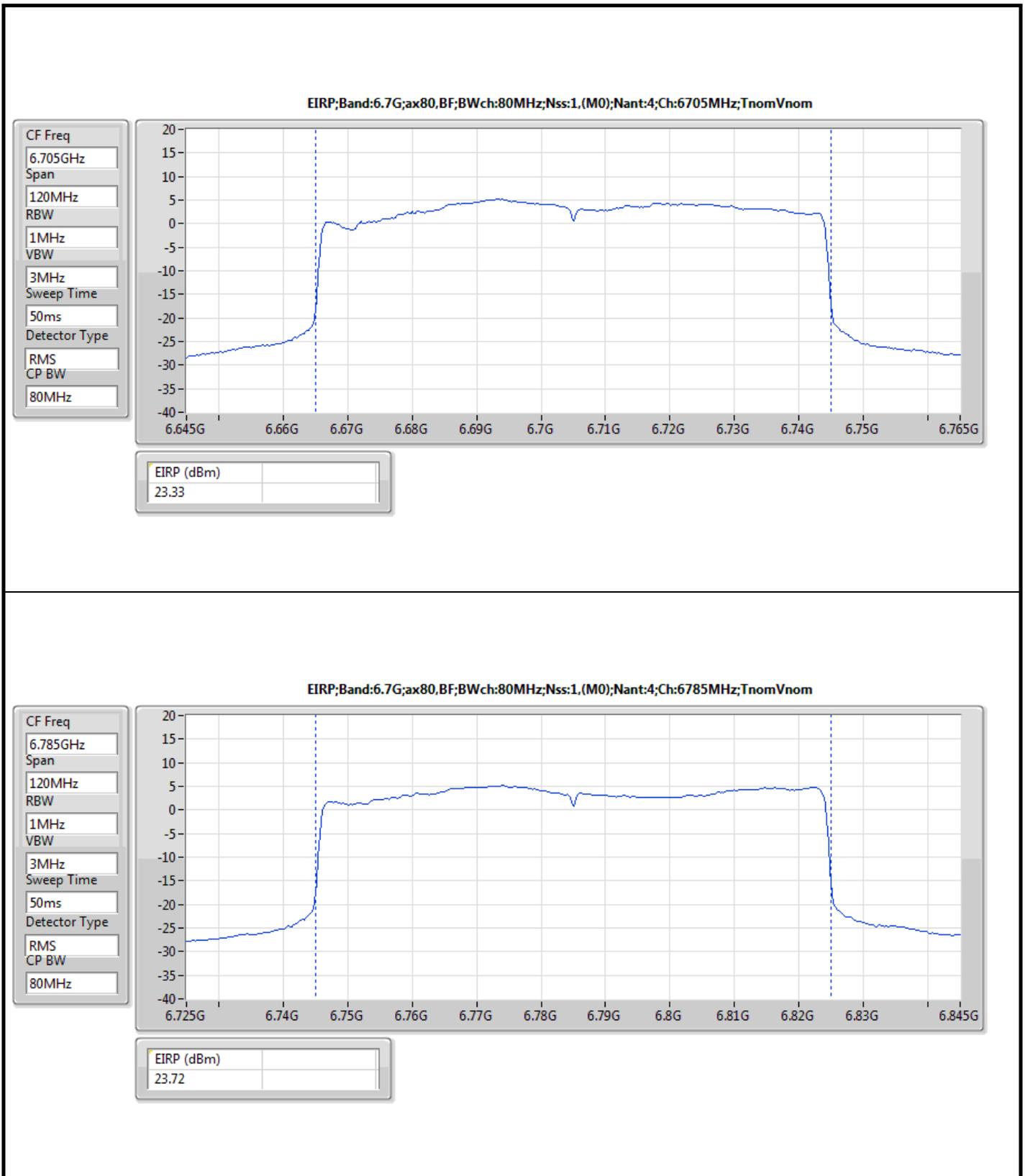


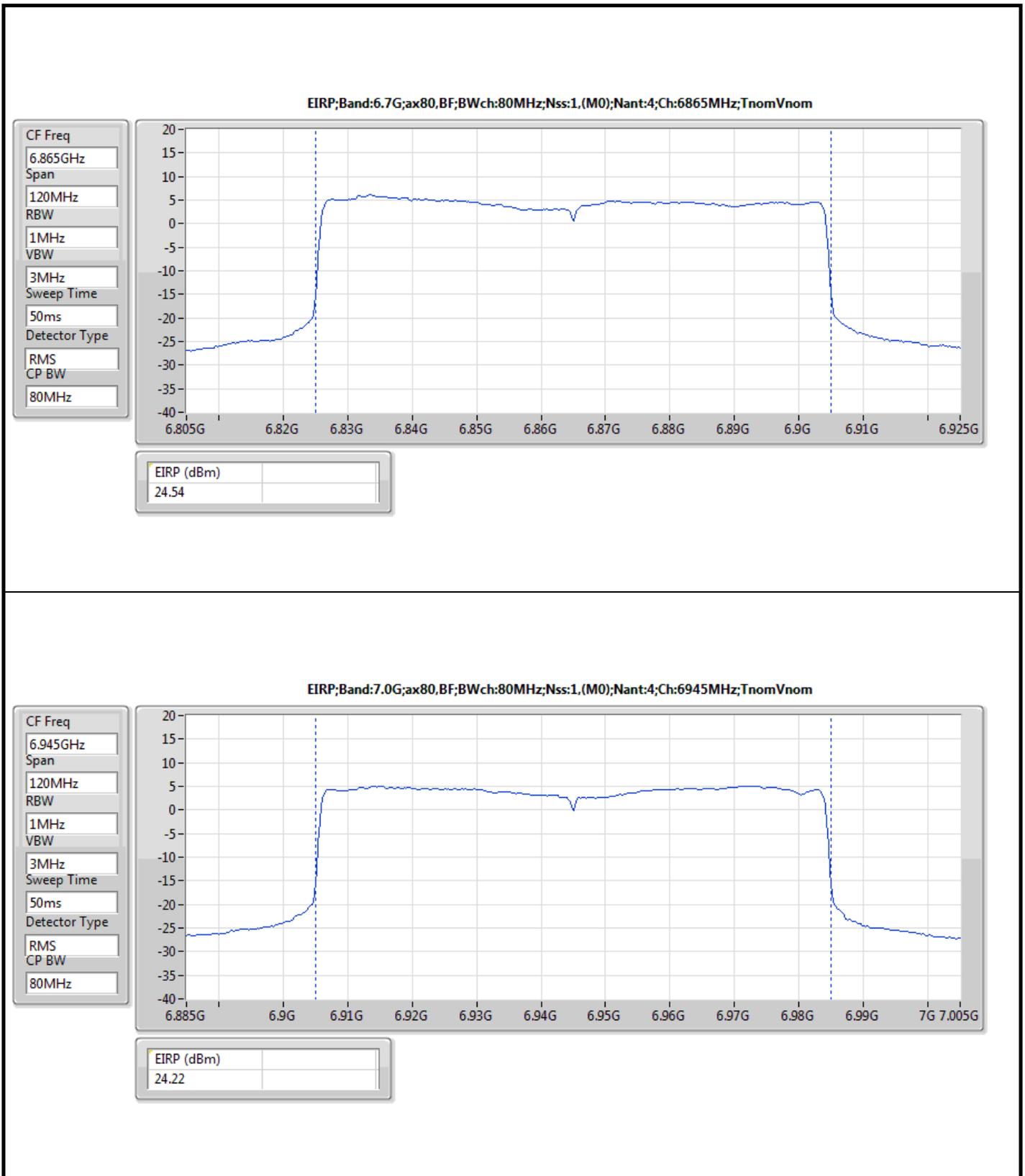


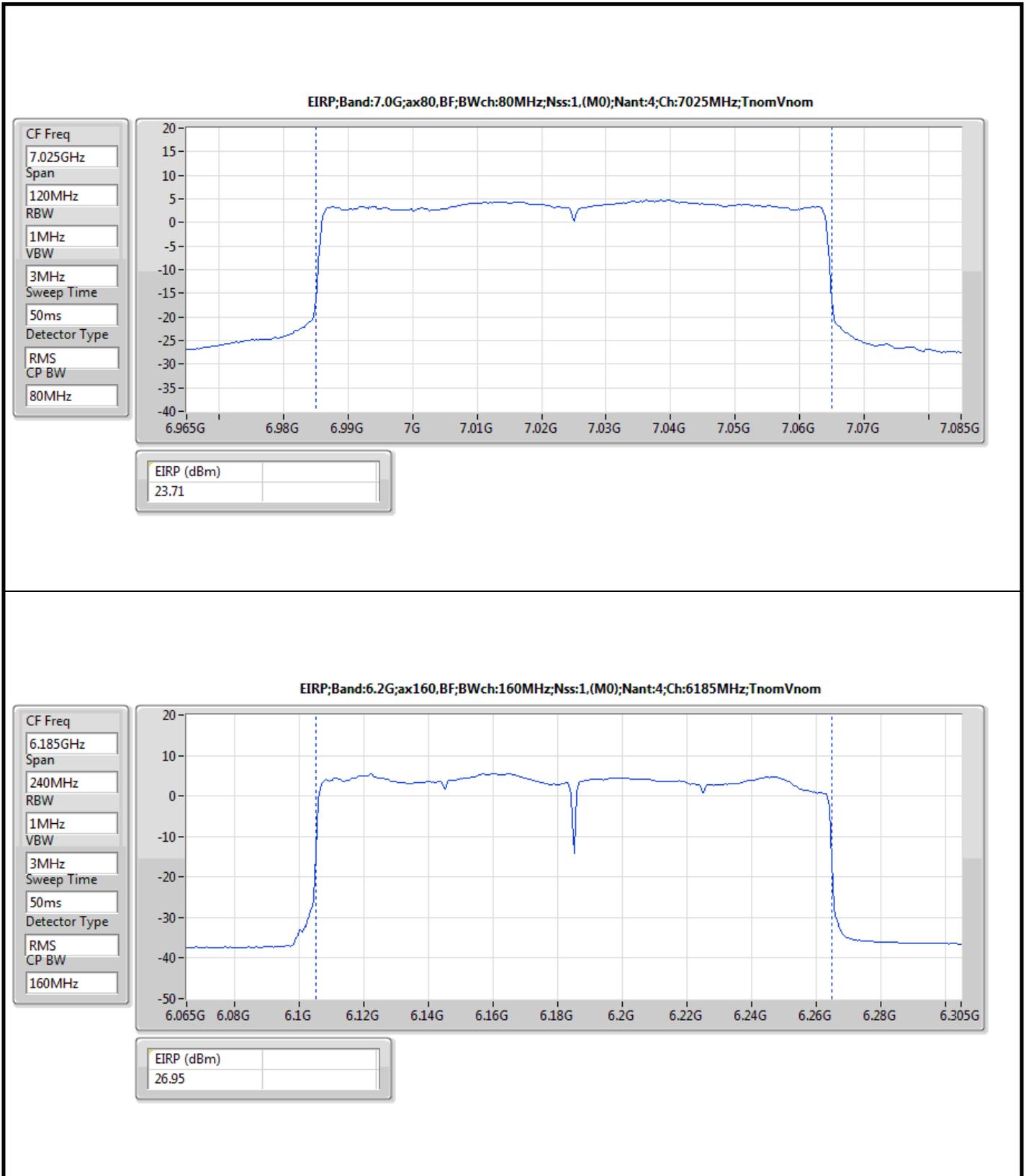


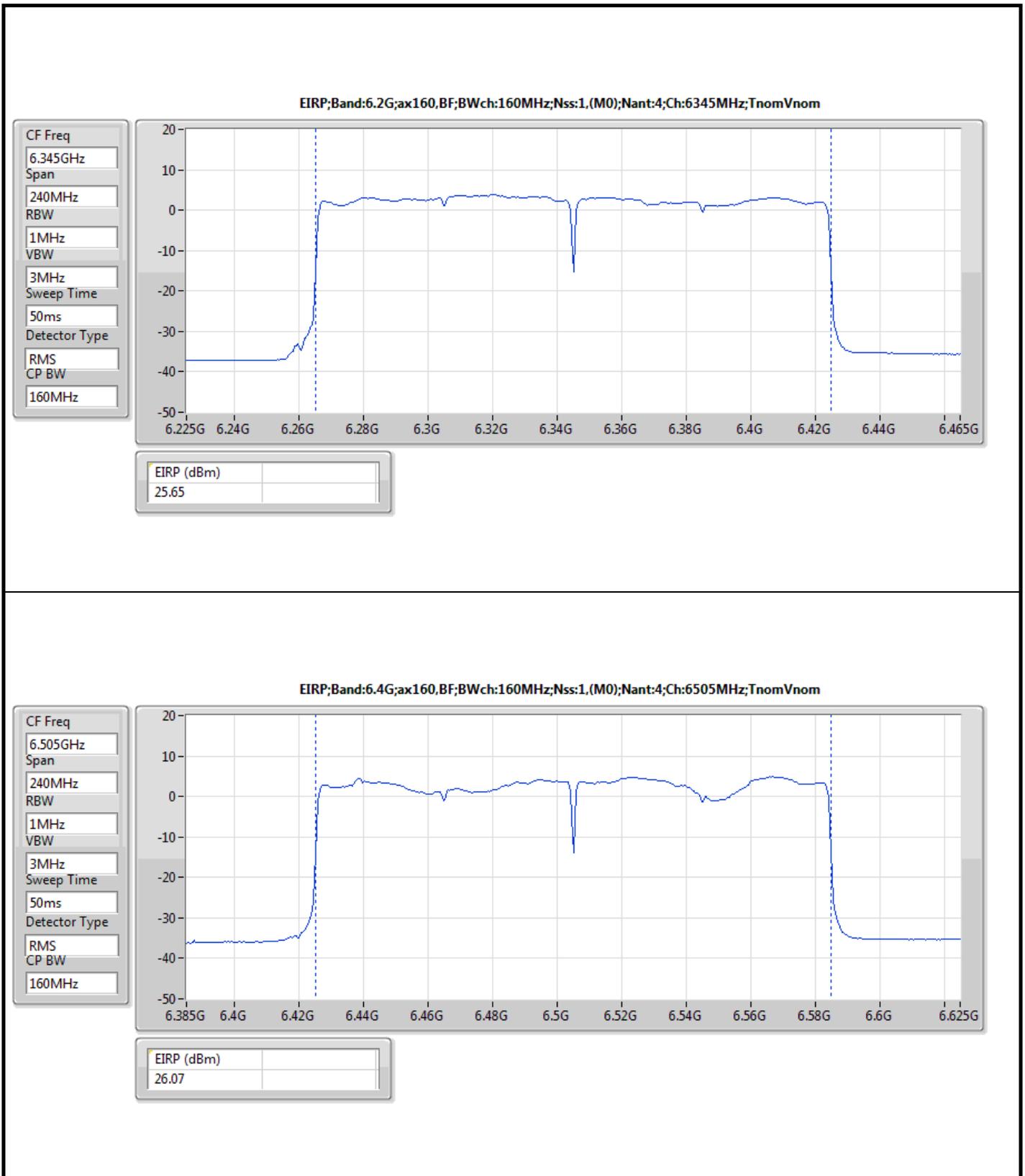


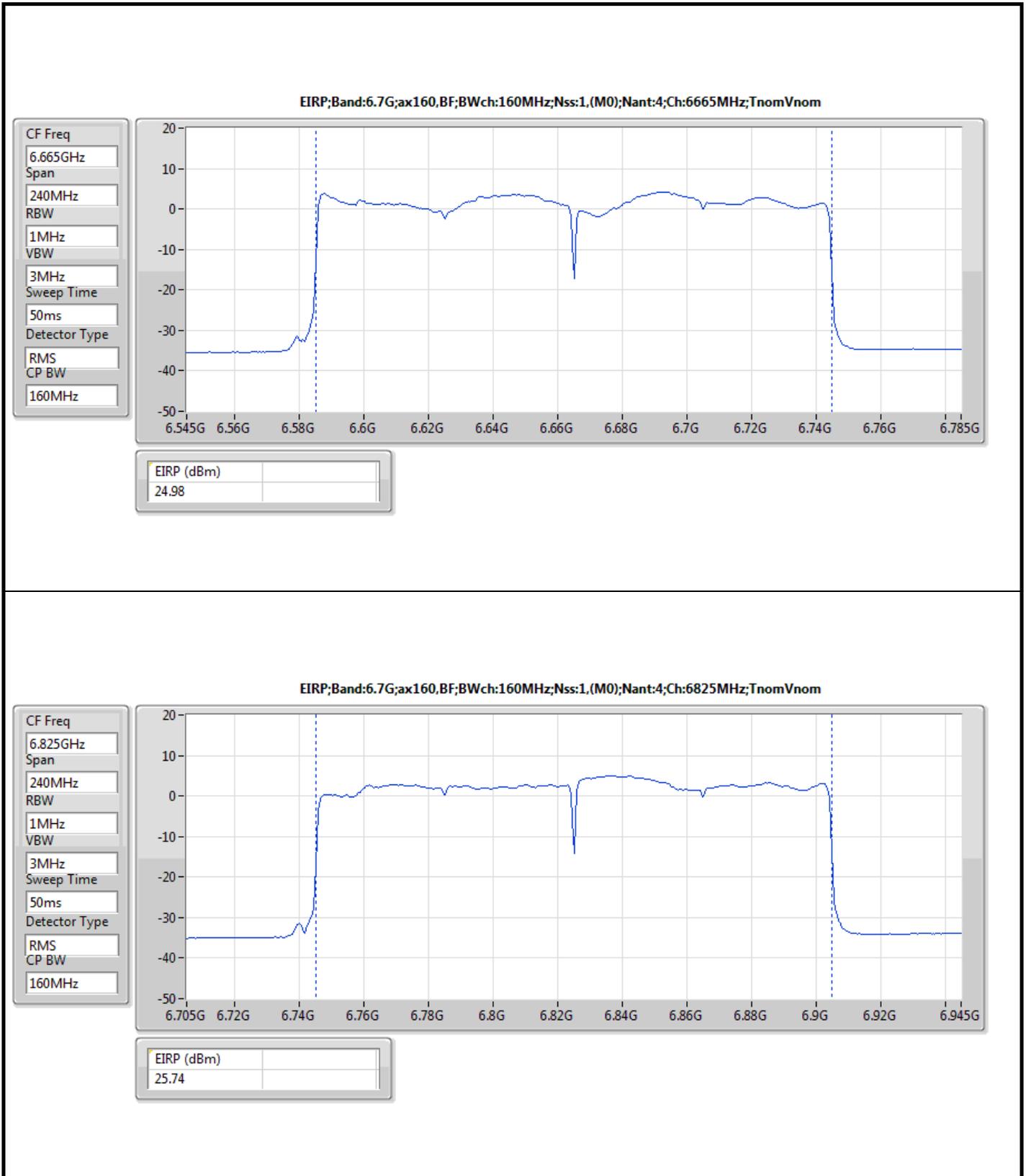


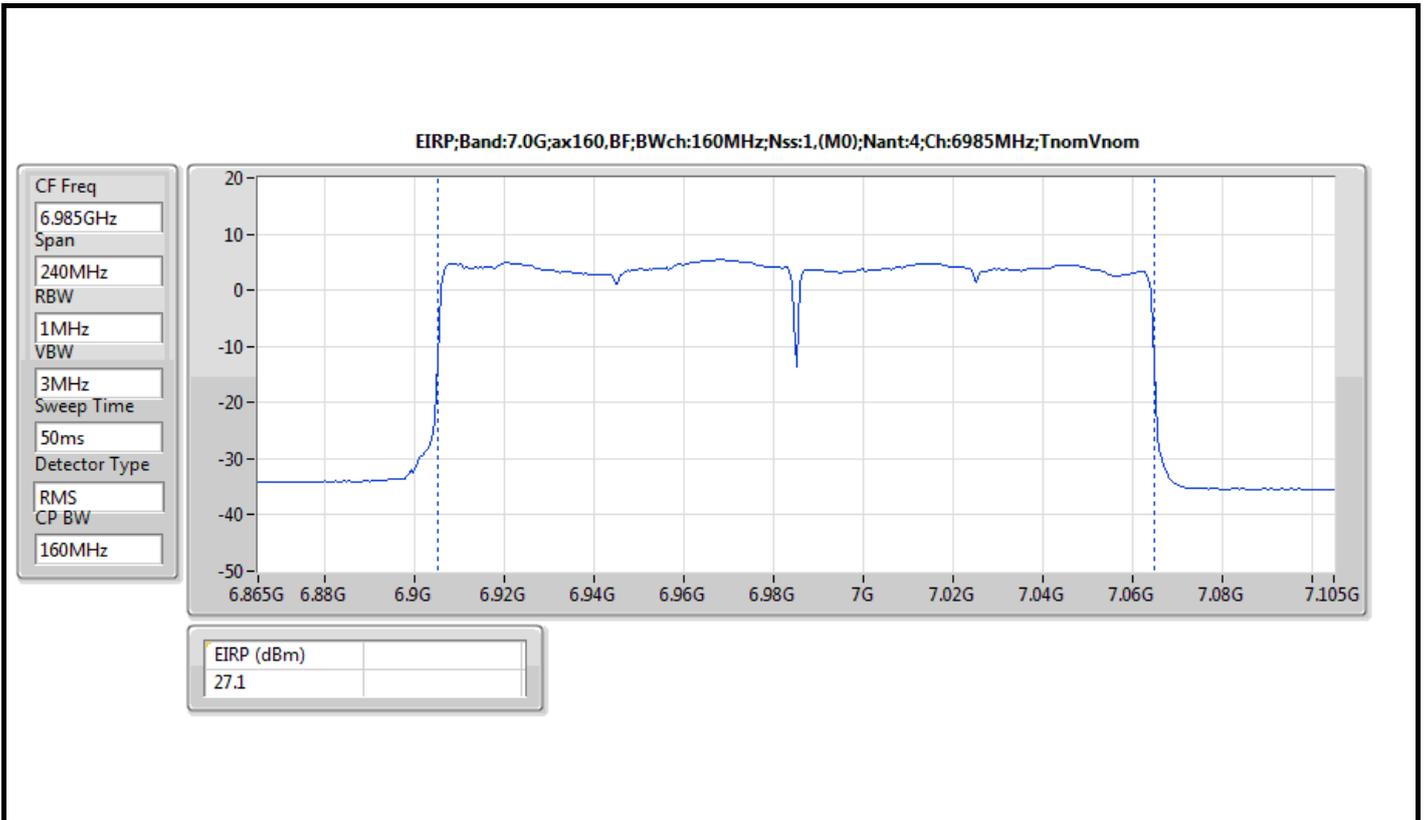














Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.07	0.06412
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	22.61	0.18239
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	26.58	0.45499
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	27.31	0.53827
6.425-6.525GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.08	0.06427
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	22.88	0.19409
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	25.45	0.35075
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	26.22	0.41879
6.525-6.875GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.08	0.06427
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	22.14	0.16368
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	25.16	0.32810
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	26.17	0.41400
6.875-7.125GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.69	0.07396
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	21.73	0.14894
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	24.46	0.27925
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	25.68	0.36983

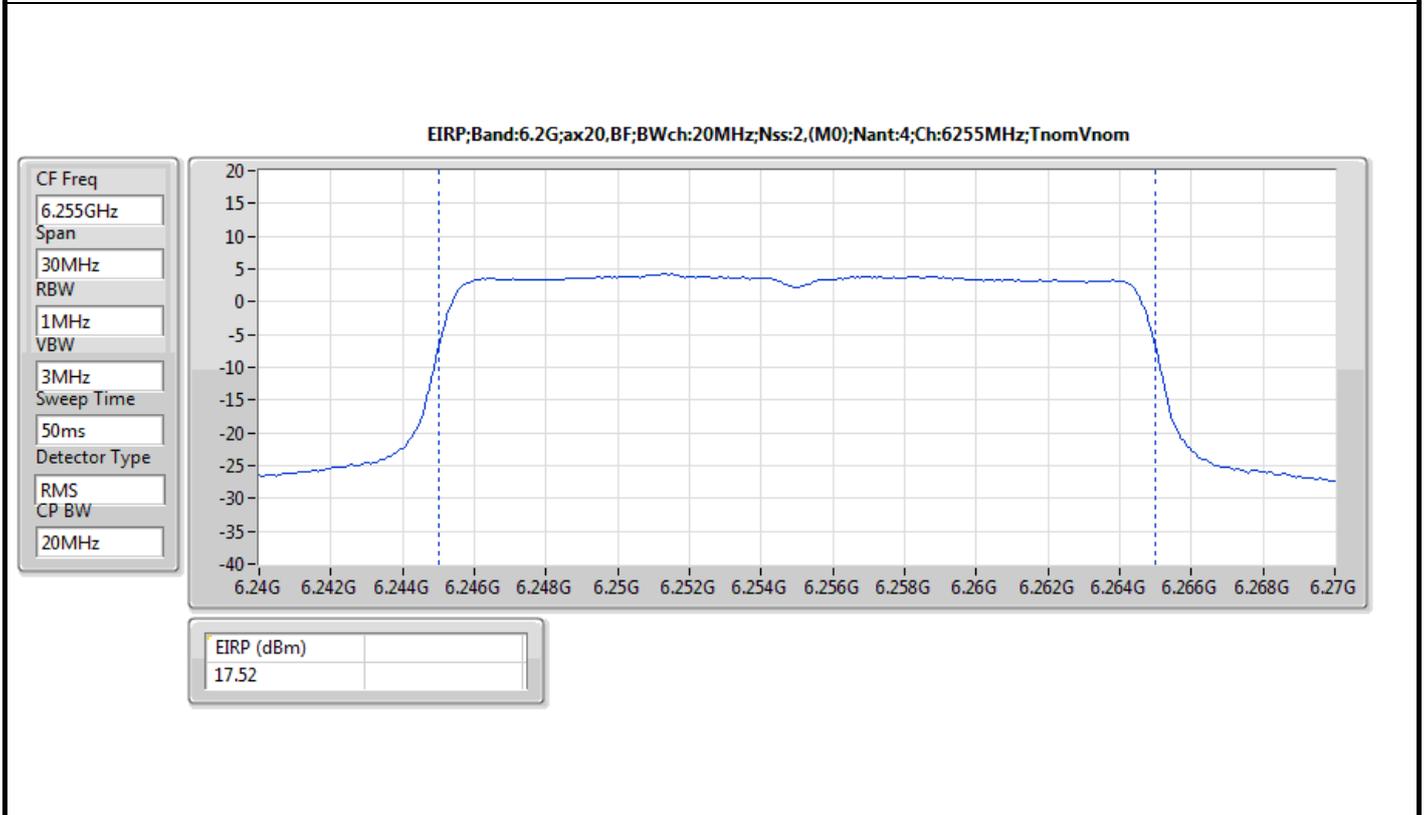
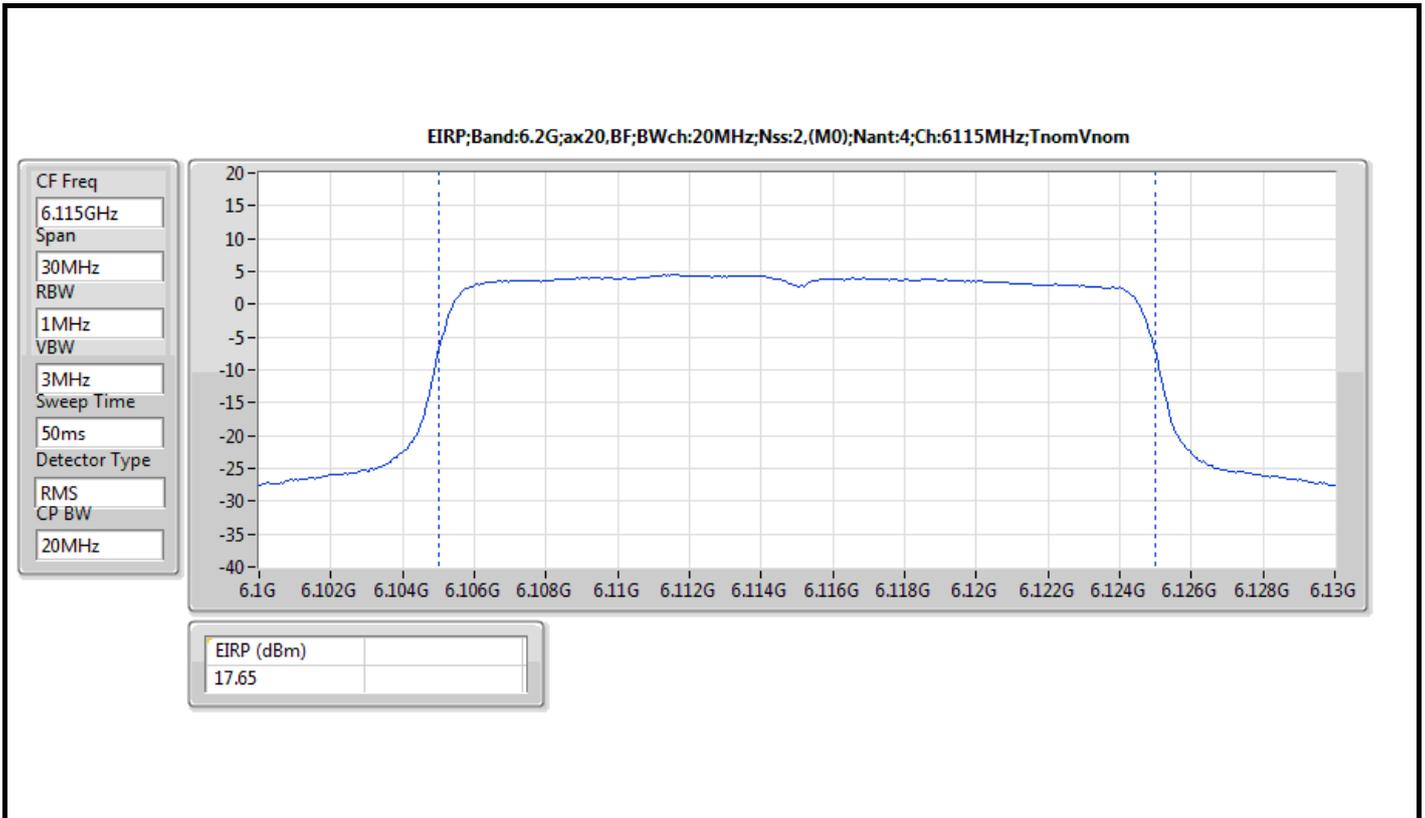


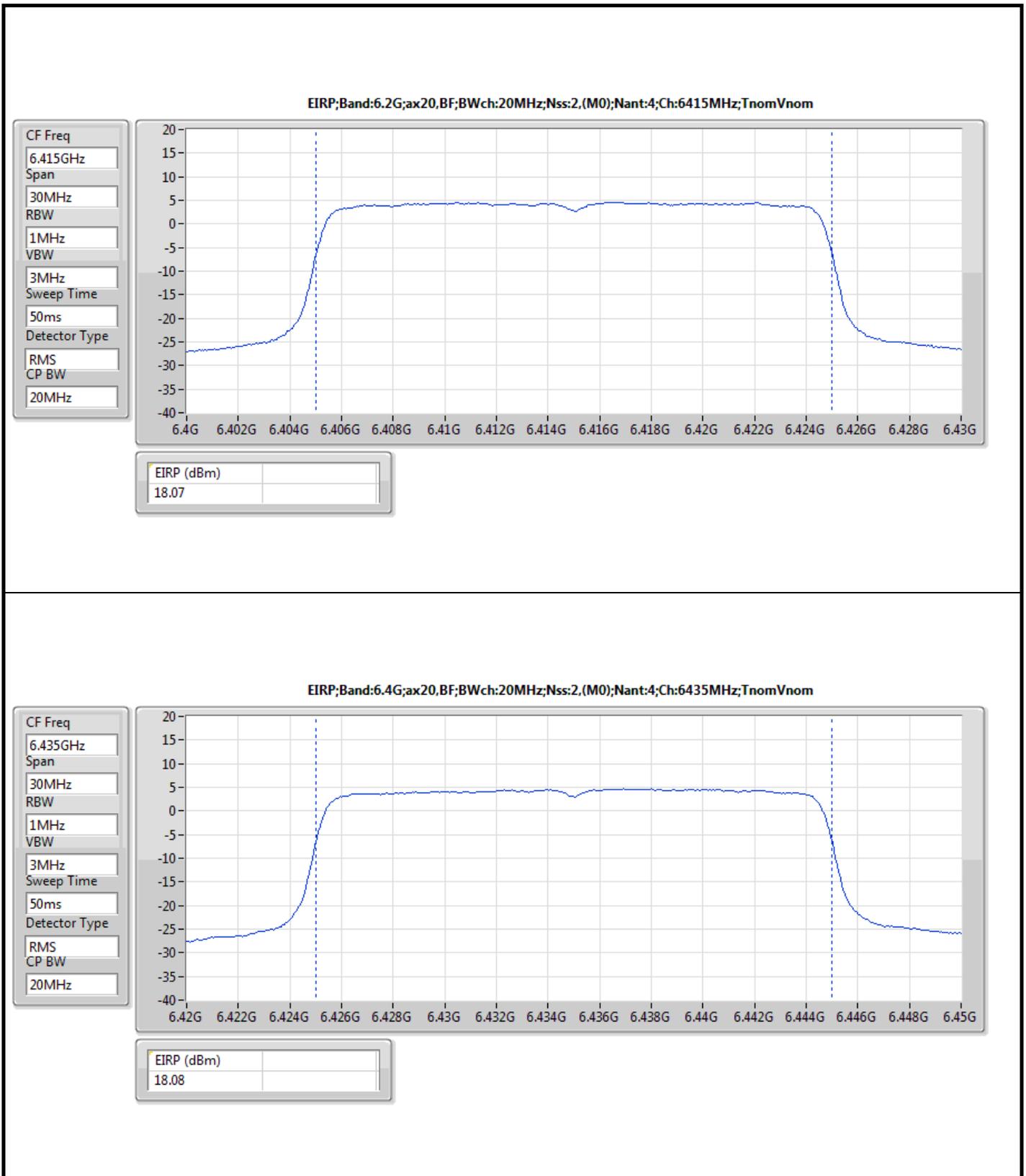
Result

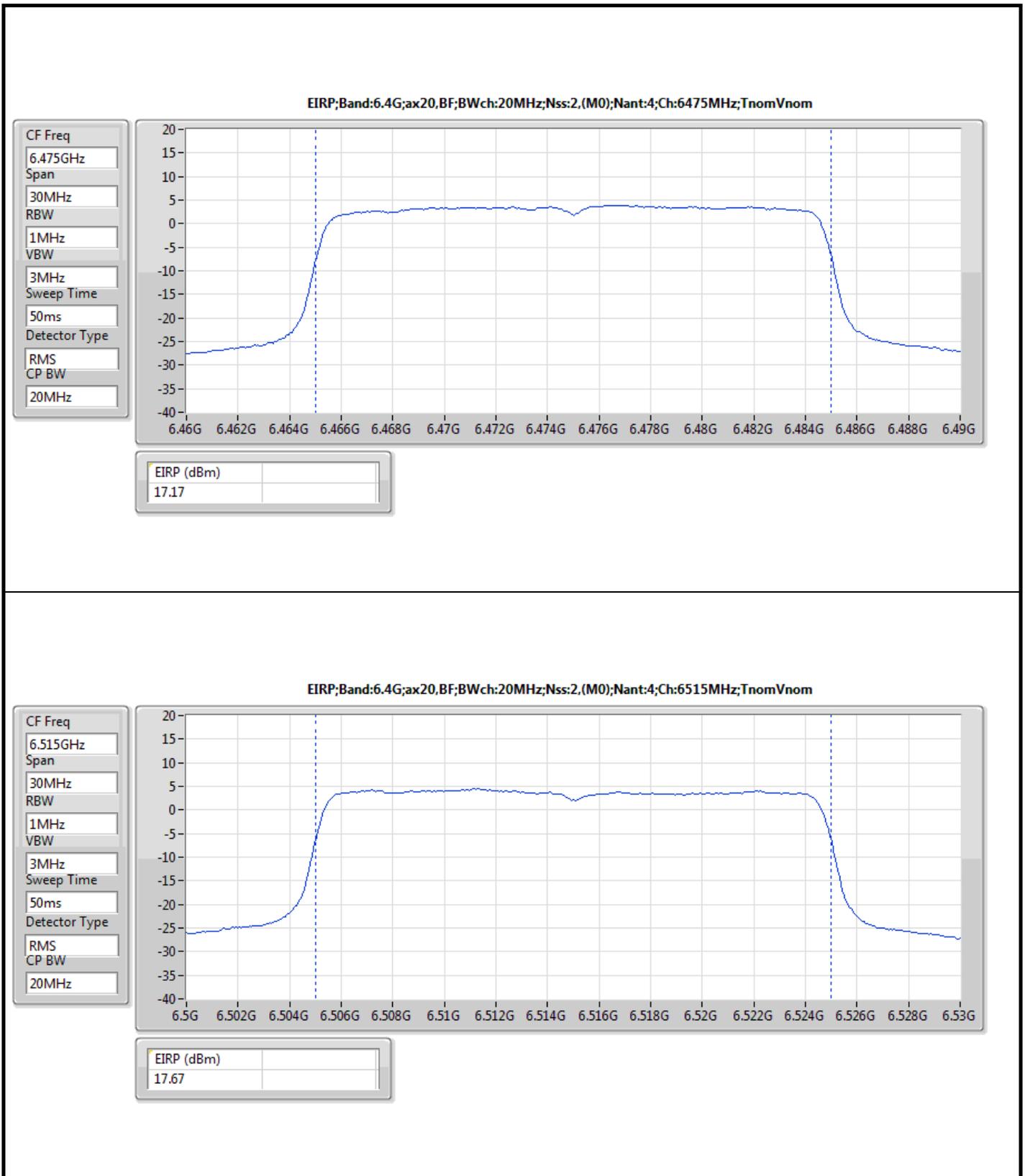
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-
6115MHz	Pass	17.65	30.00
6255MHz	Pass	17.52	30.00
6415MHz	Pass	18.07	30.00
6435MHz	Pass	18.08	30.00
6475MHz	Pass	17.17	30.00
6515MHz	Pass	17.67	30.00
6535MHz	Pass	17.91	30.00
6695MHz	Pass	17.05	30.00
6855MHz	Pass	18.08	30.00
6875MHz Straddle 6.525-6.875GHz	Pass	17.44	30.00
6895MHz	Pass	18.69	30.00
6995MHz	Pass	18.06	30.00
7095MHz	Pass	18.21	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-
6125MHz	Pass	21.90	30.00
6245MHz	Pass	21.82	30.00
6405MHz	Pass	22.61	30.00
6445MHz	Pass	22.88	30.00
6485MHz	Pass	20.89	30.00
6525MHz Straddle 6.425-6.525GHz	Pass	21.84	30.00
6565MHz	Pass	22.14	30.00
6685MHz	Pass	21.17	30.00
6845MHz	Pass	21.24	30.00
6885MHz Straddle 6.525-6.875GHz	Pass	21.92	30.00
6925MHz	Pass	21.46	30.00
7005MHz	Pass	21.45	30.00
7085MHz	Pass	21.73	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-
6145MHz	Pass	26.58	30.00
6225MHz	Pass	25.21	30.00
6385MHz	Pass	24.8	30.00
6465MHz	Pass	25.45	30.00
6545MHz Straddle 6.425-6.525GHz	Pass	24.1	30.00
6625MHz	Pass	25.16	30.00
6705MHz	Pass	24.76	30.00
6785MHz	Pass	24.05	30.00
6865MHz Straddle 6.525-6.875GHz	Pass	24.50	30.00
6945MHz	Pass	24.46	30.00
7025MHz	Pass	23.80	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-
6185MHz	Pass	27.31	30.00
6345MHz	Pass	26.36	30.00
6505MHz Straddle 6.425-6.525GHz	Pass	26.22	30.00
6665MHz	Pass	25.92	30.00
6825MHz Straddle 6.525-6.875GHz	Pass	26.17	30.00
6985MHz	Pass	25.68	30.00

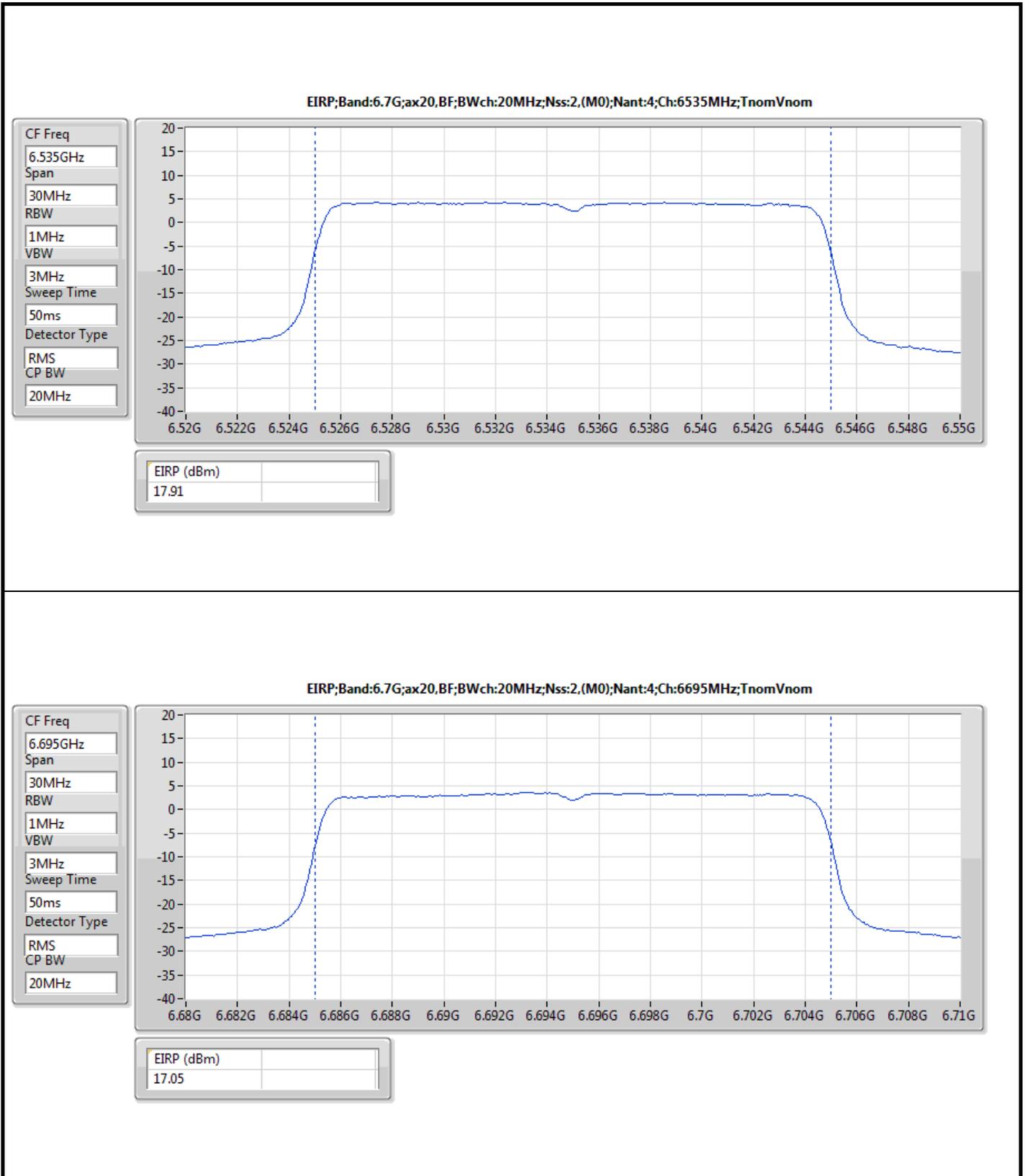
DG = Directional Gain

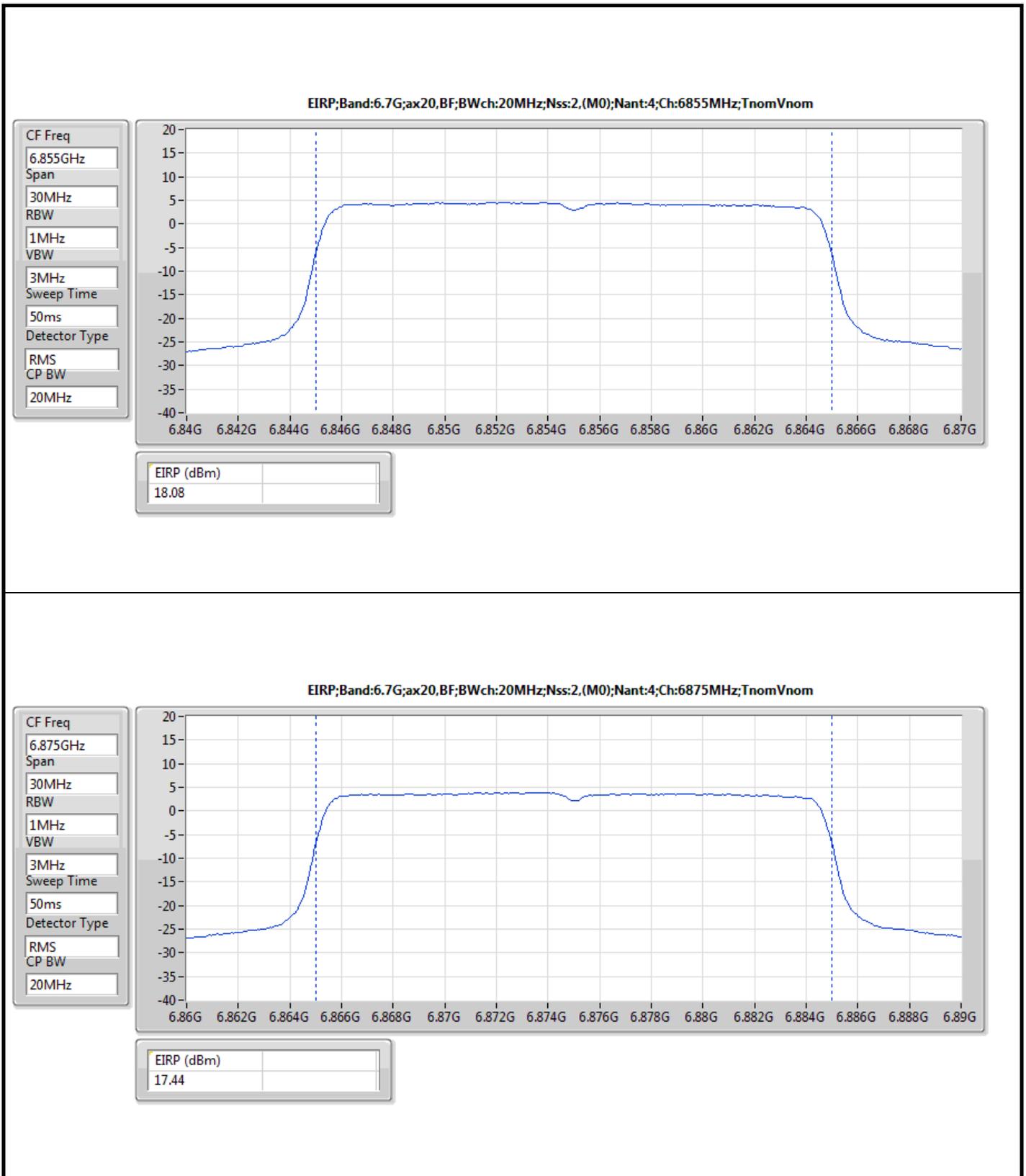
The test result used radiated measurement.

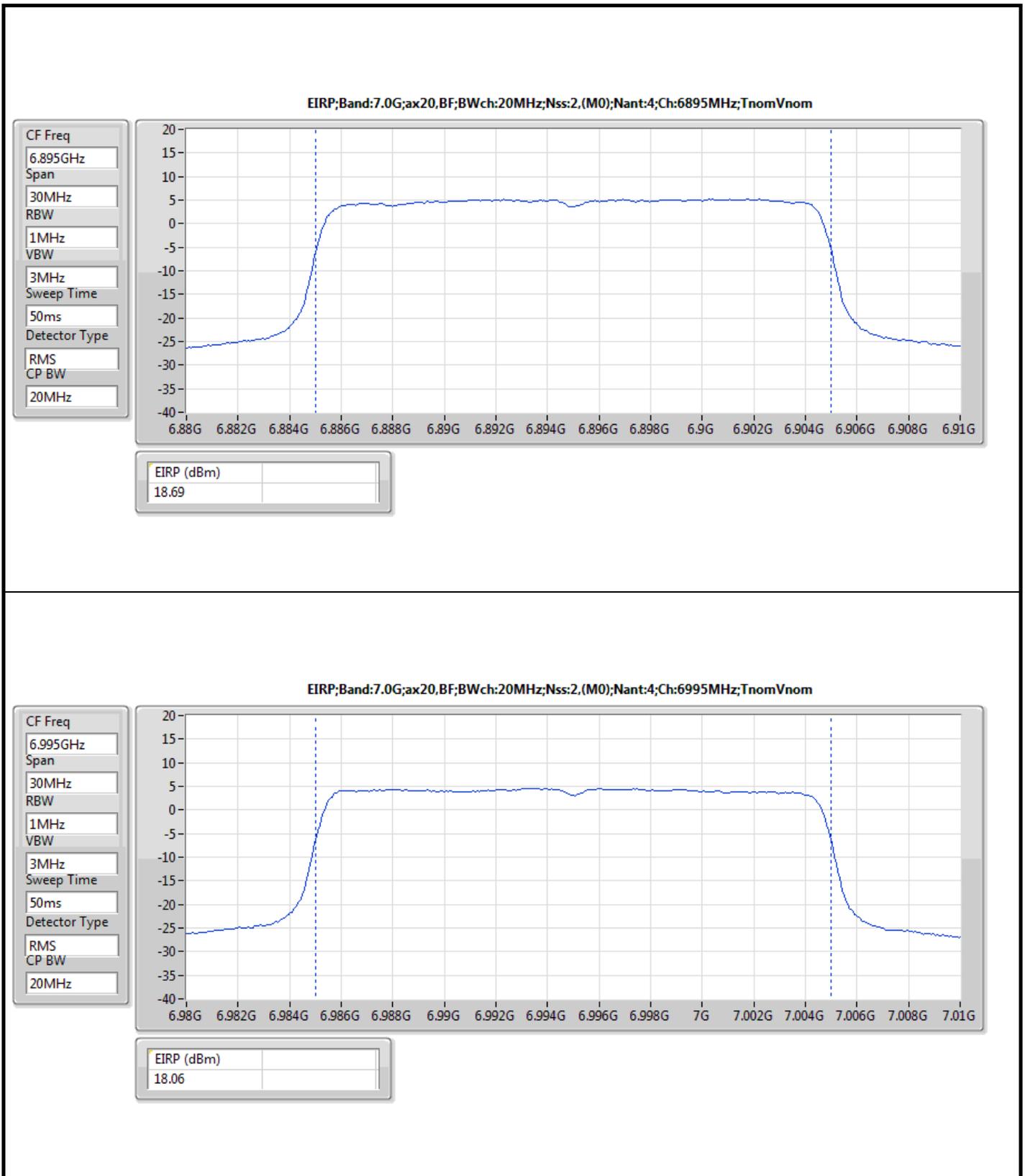


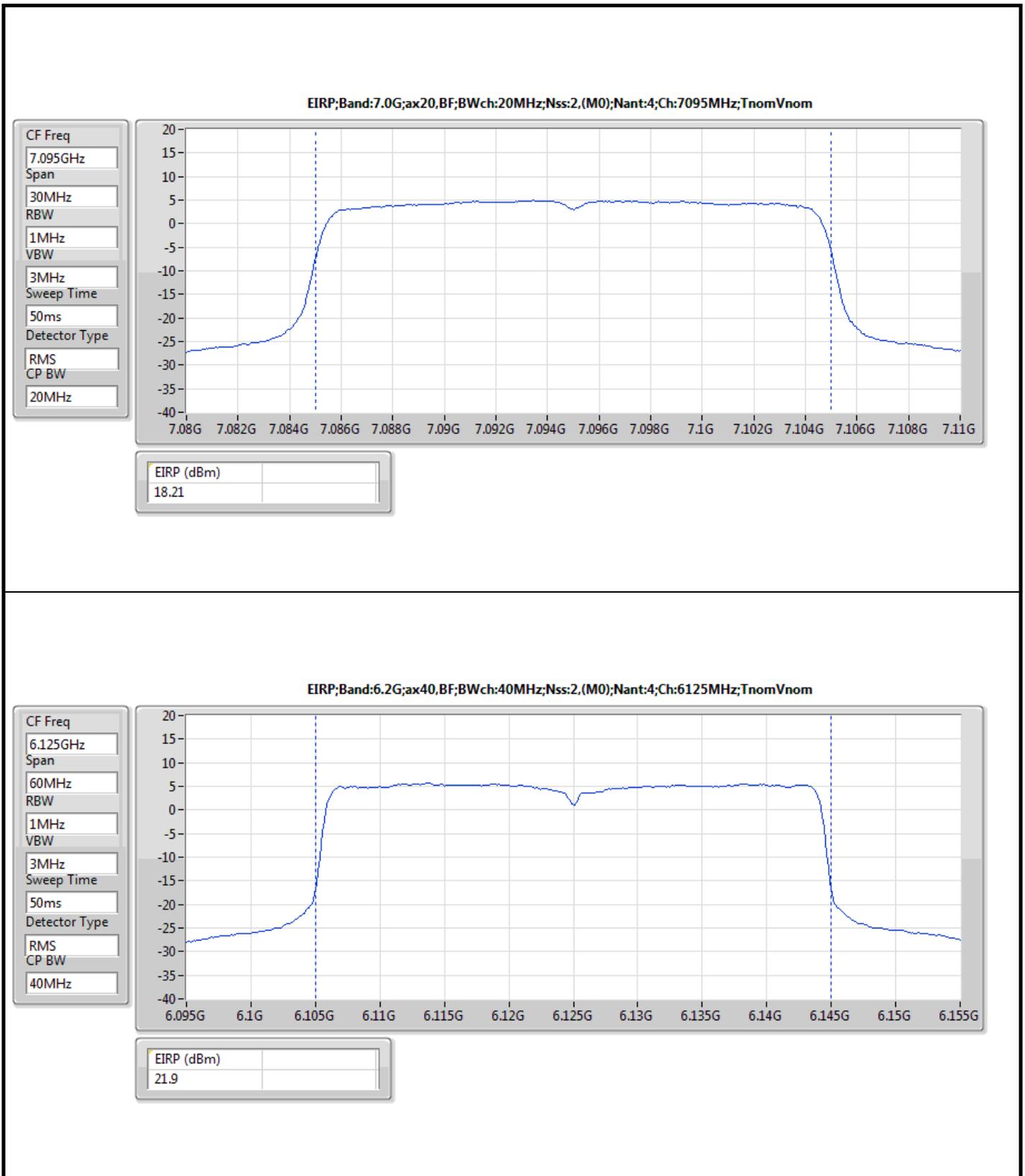


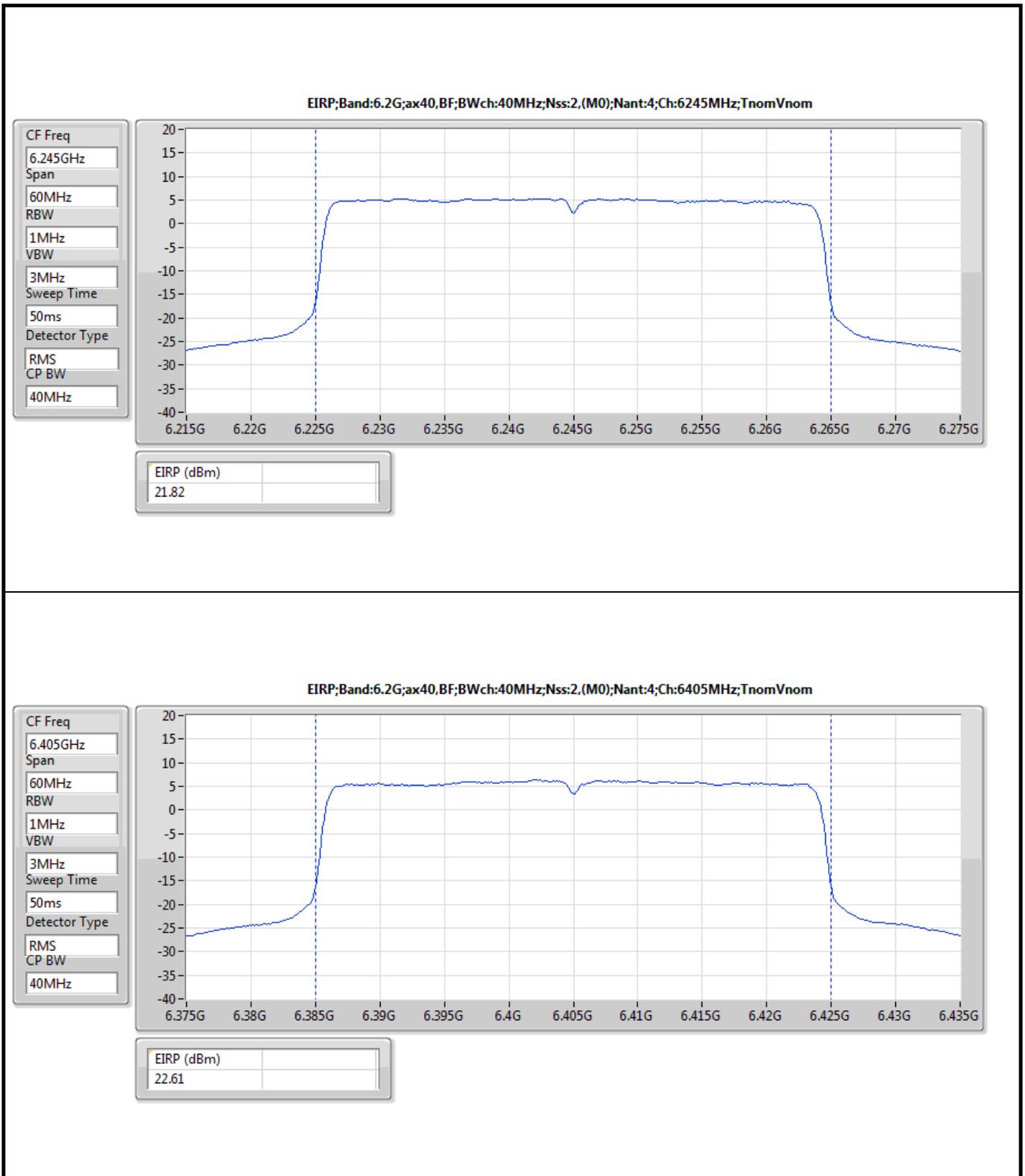


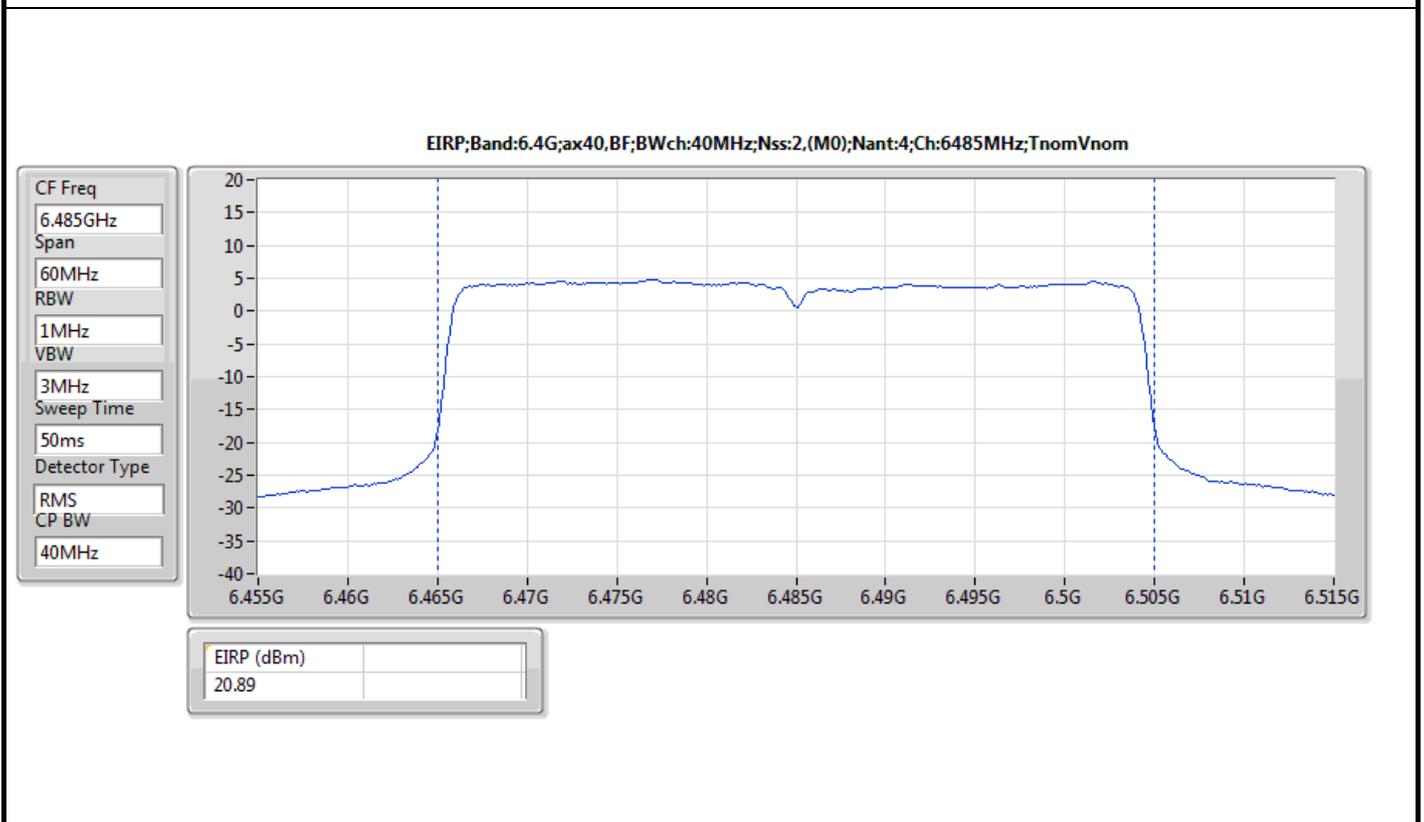
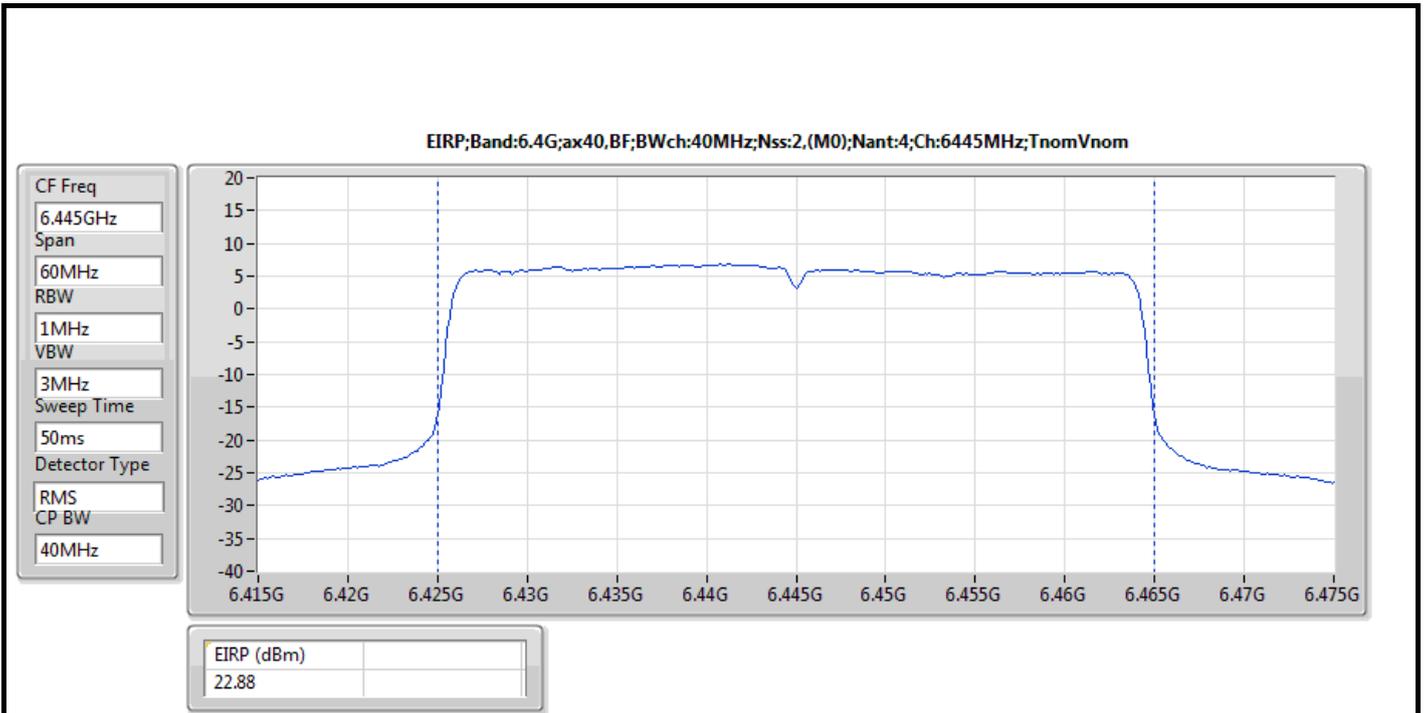


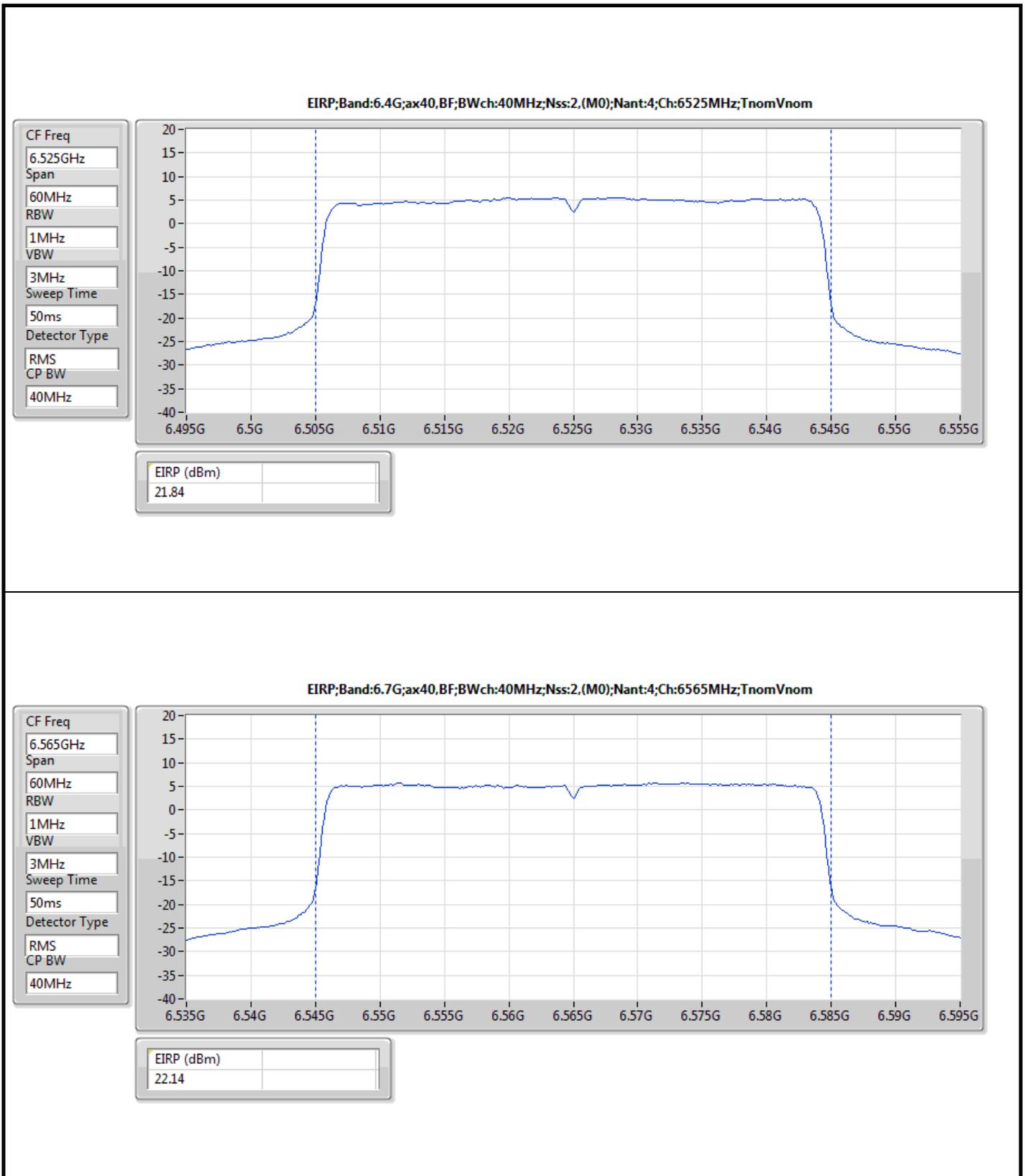


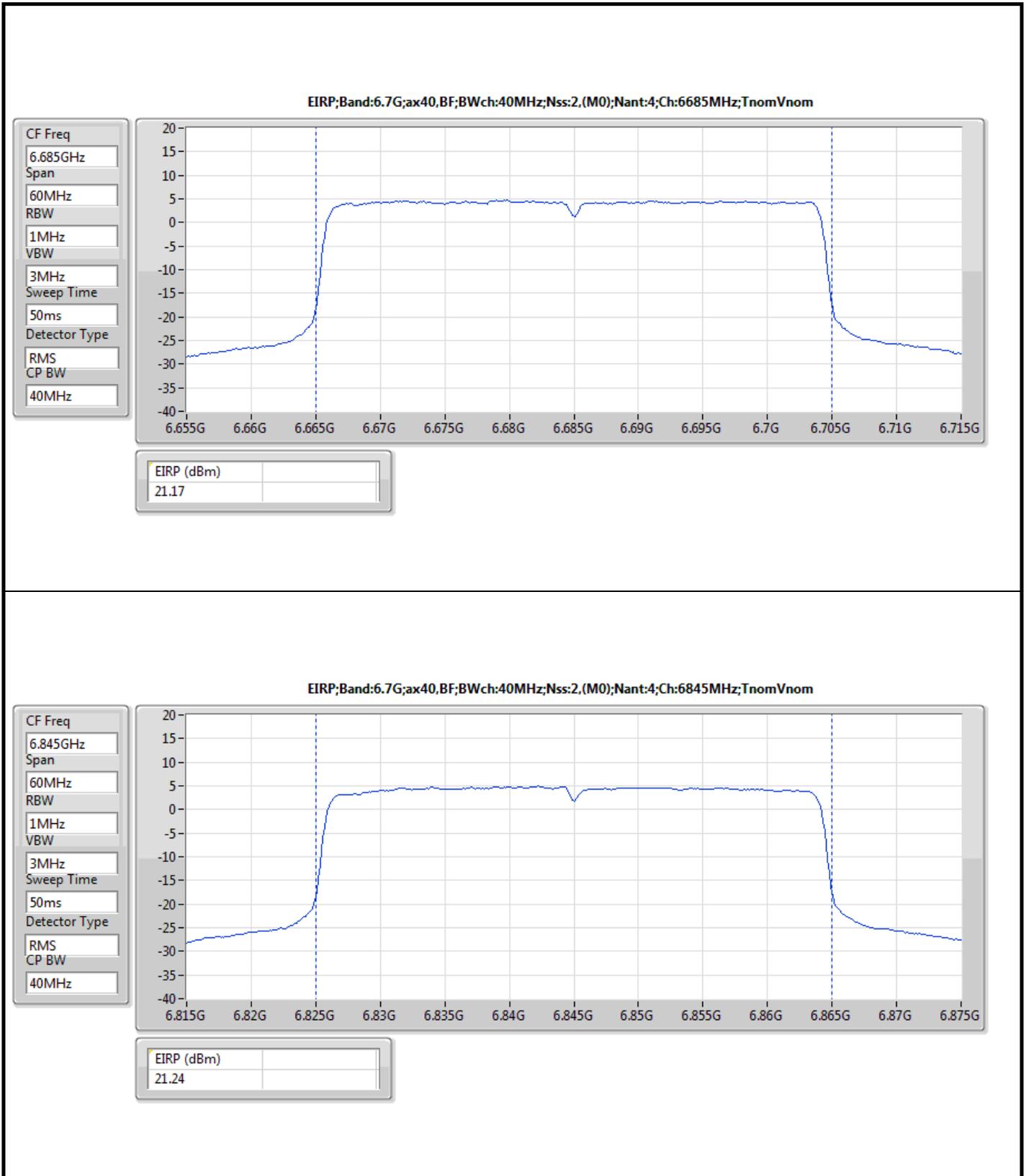


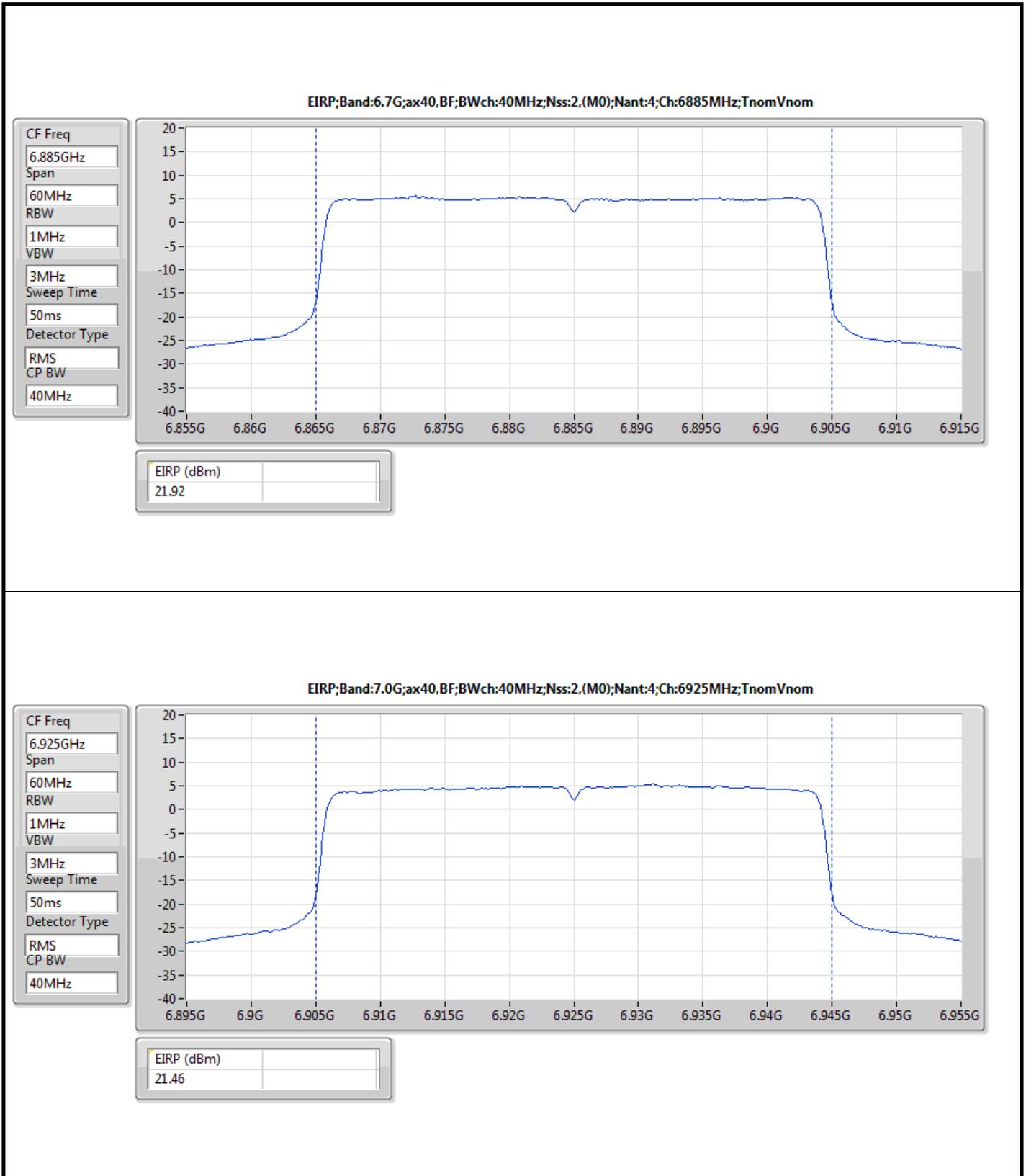


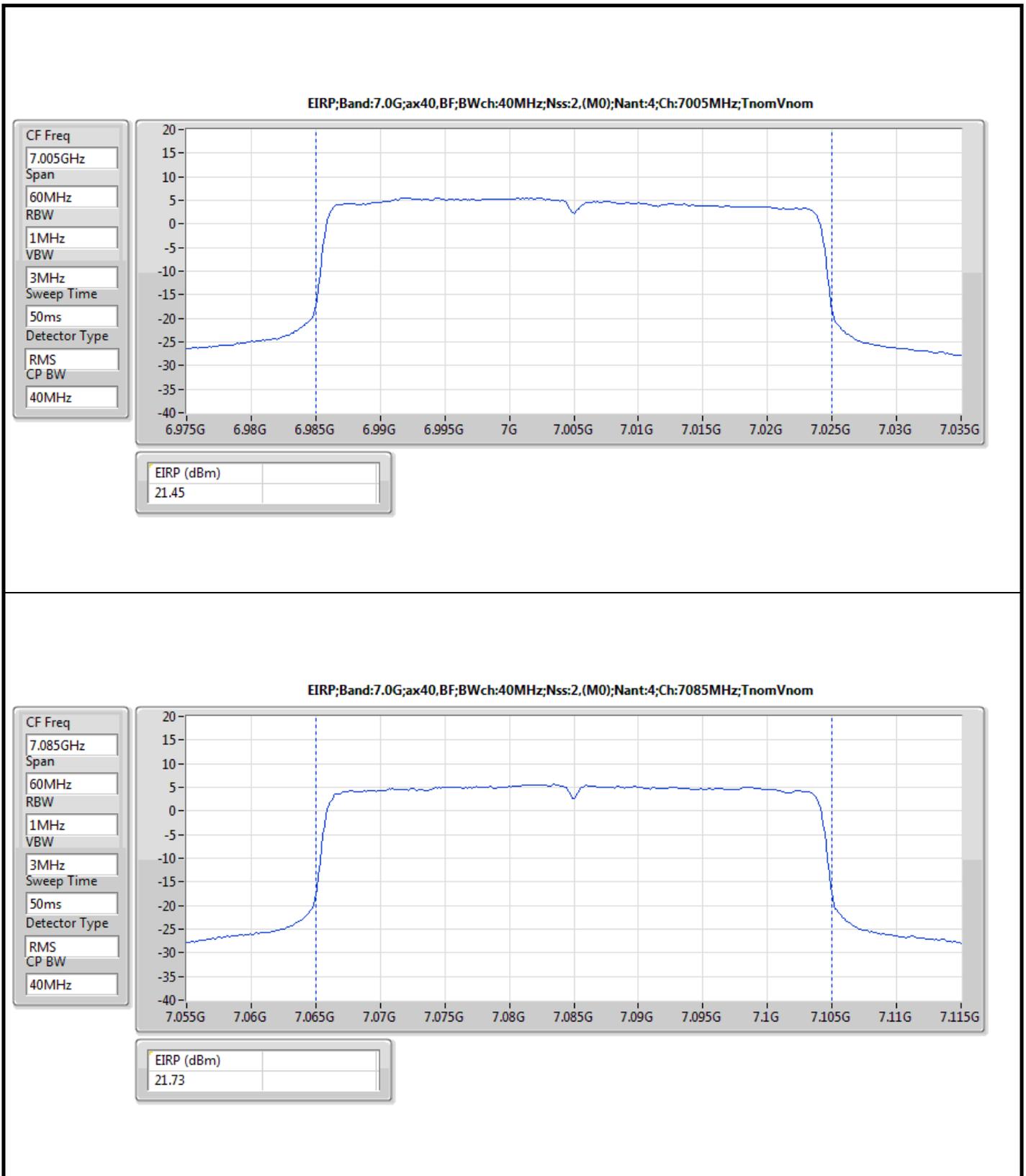


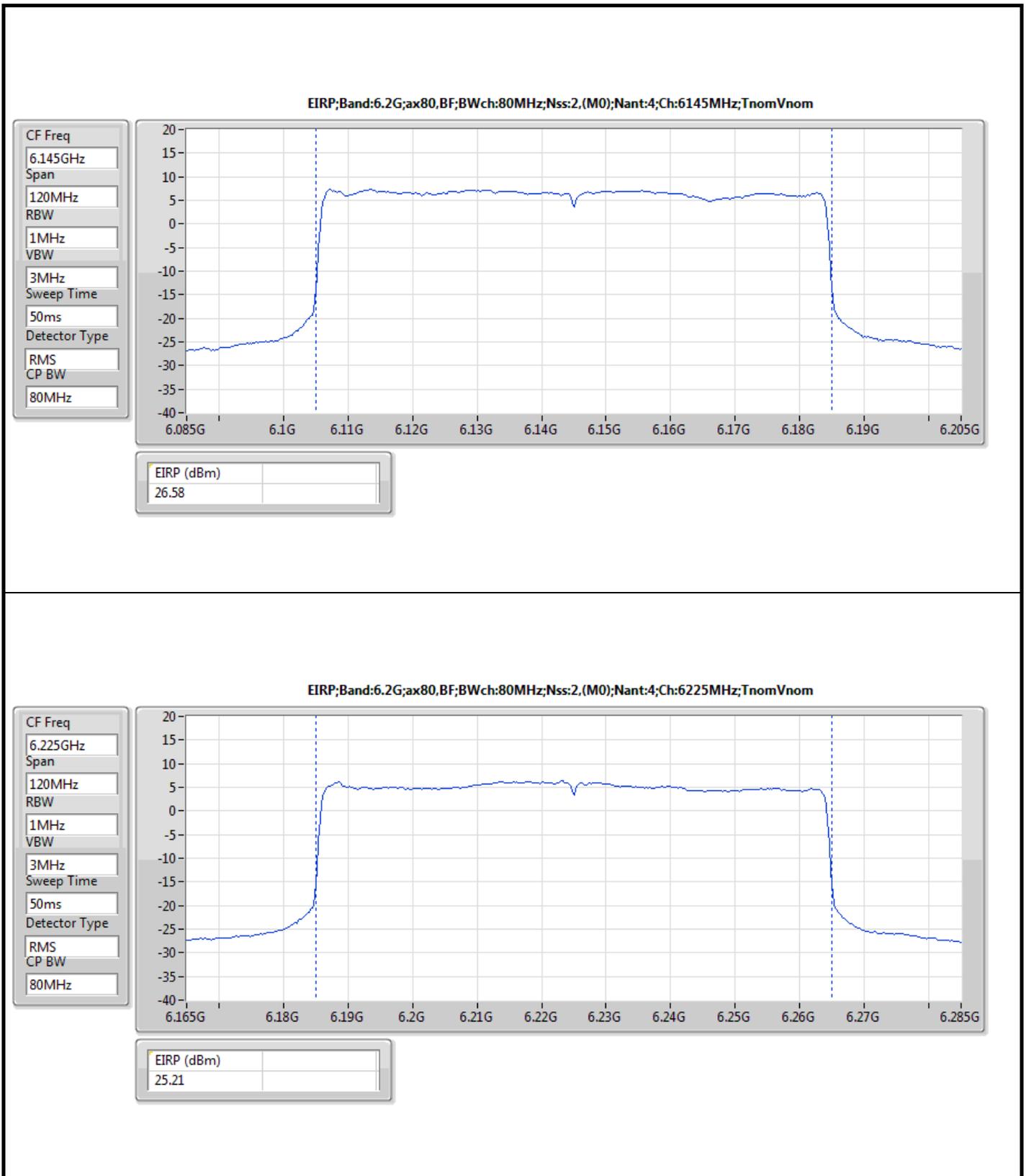


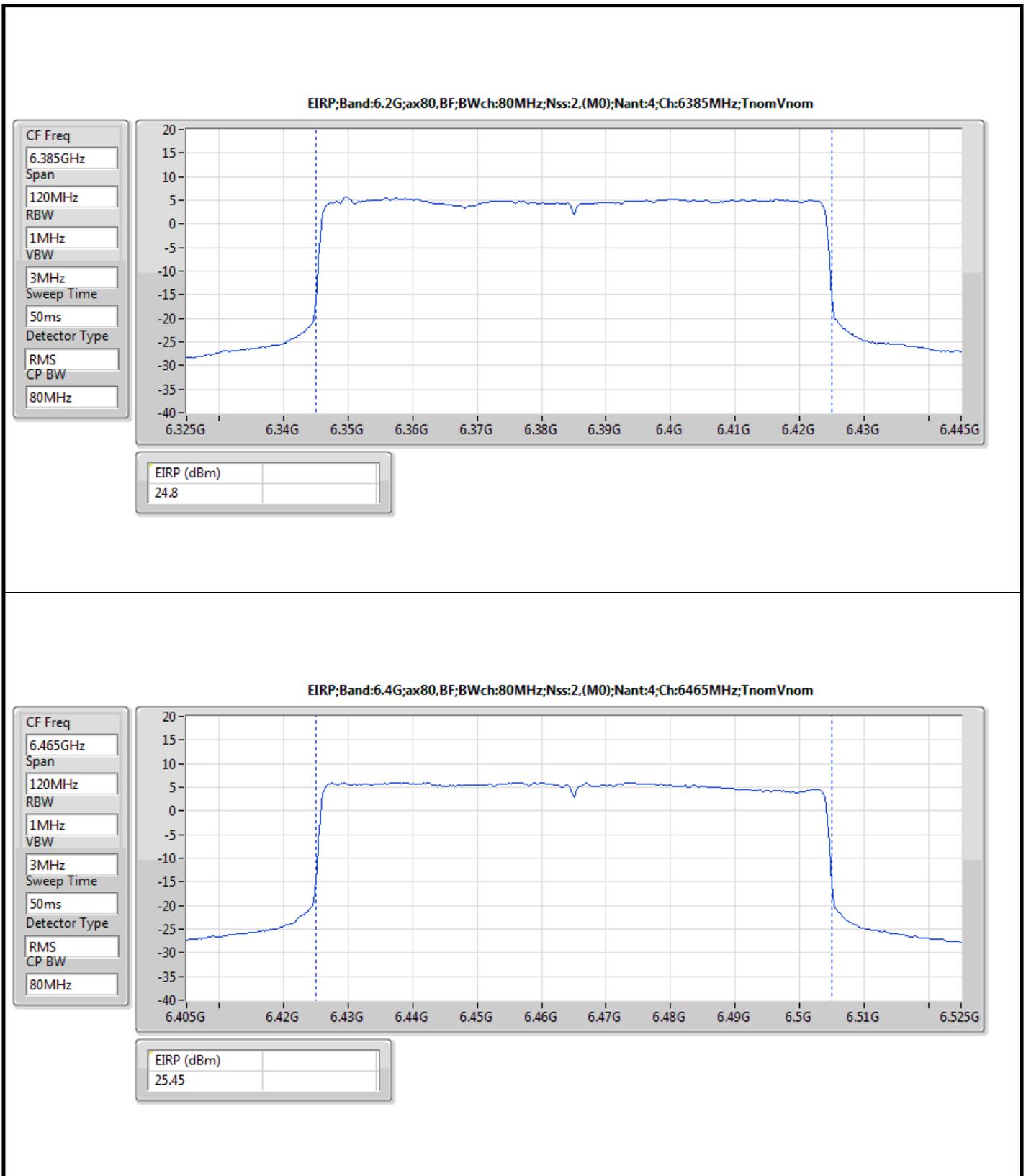


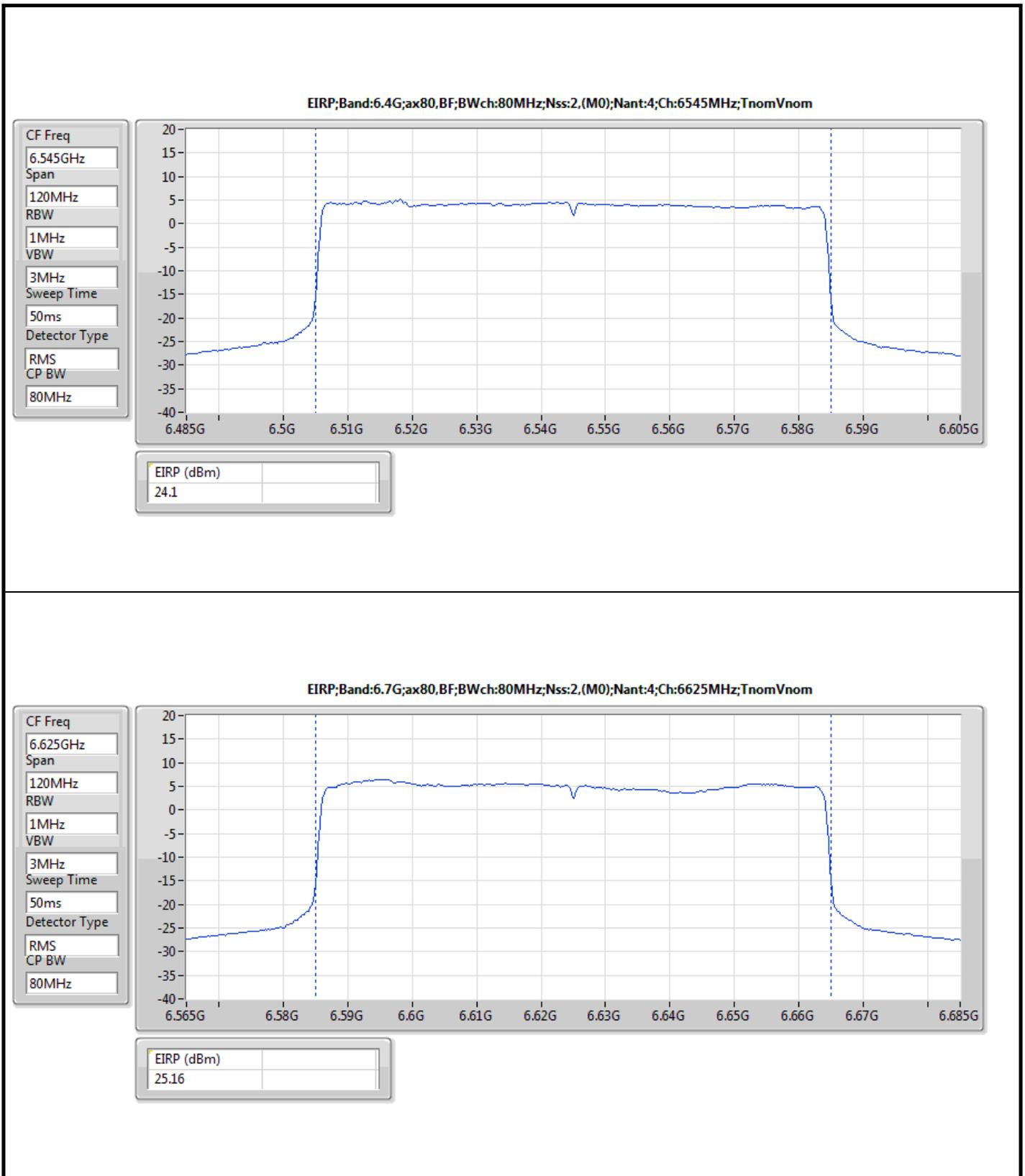


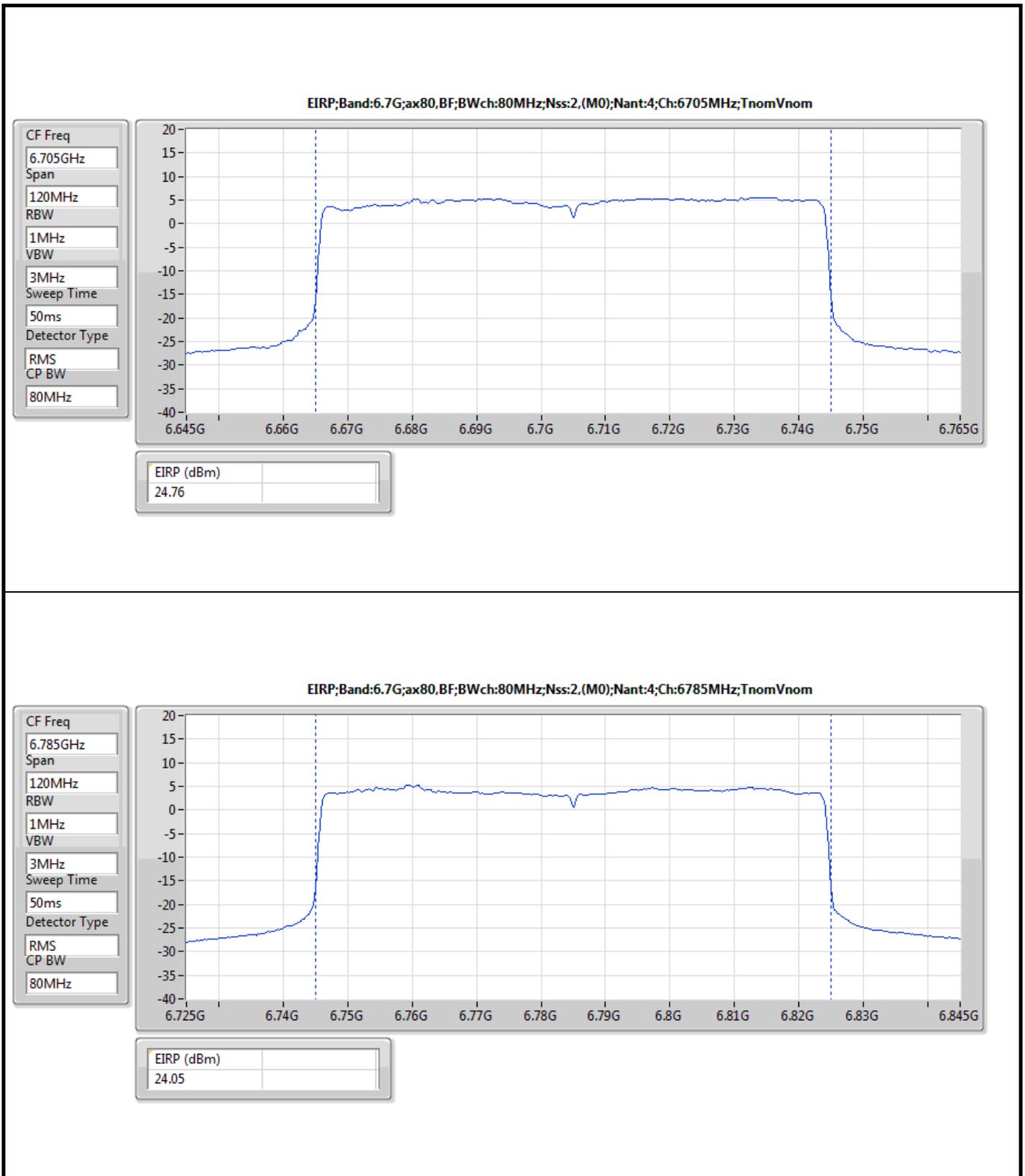


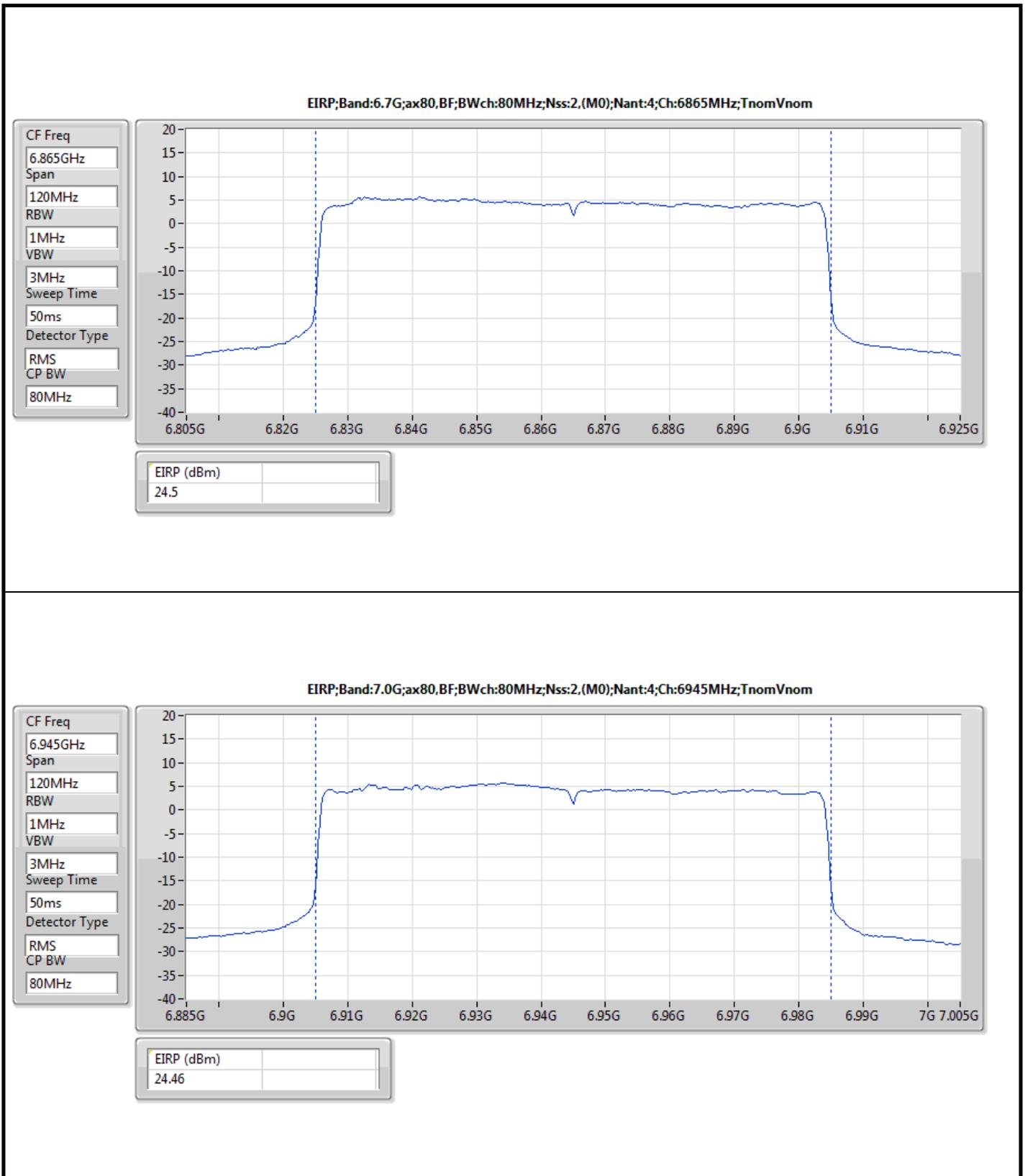


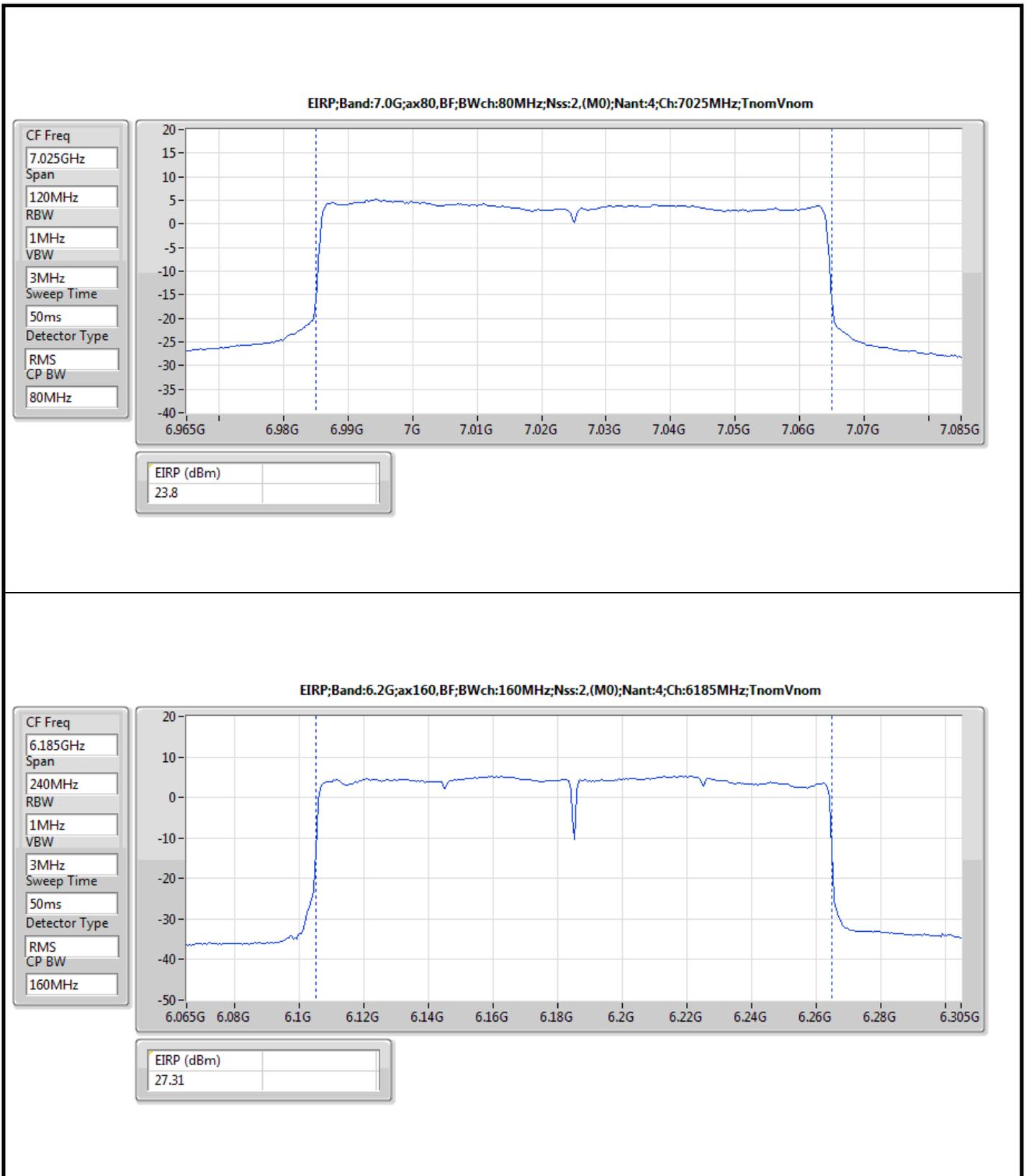


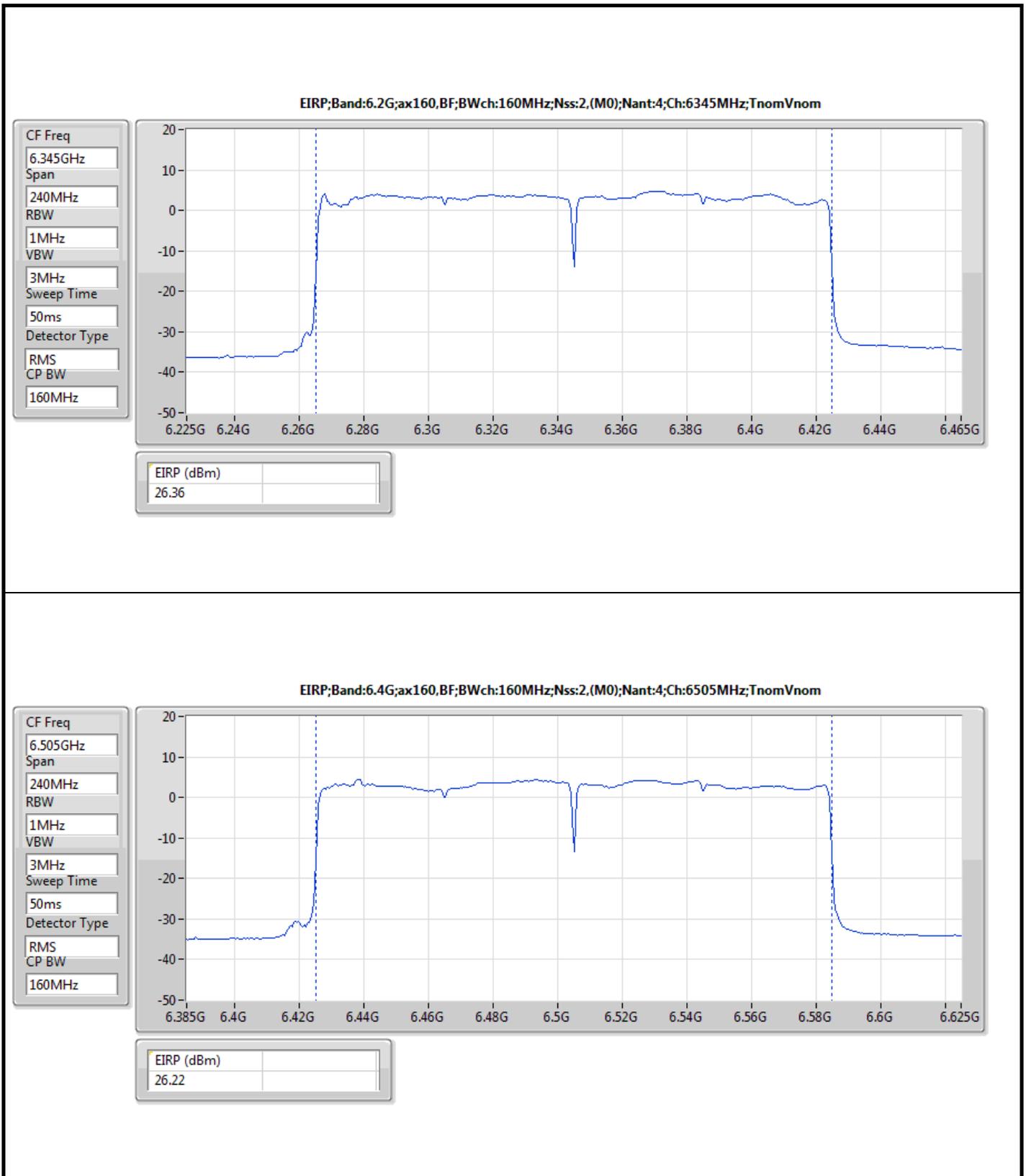


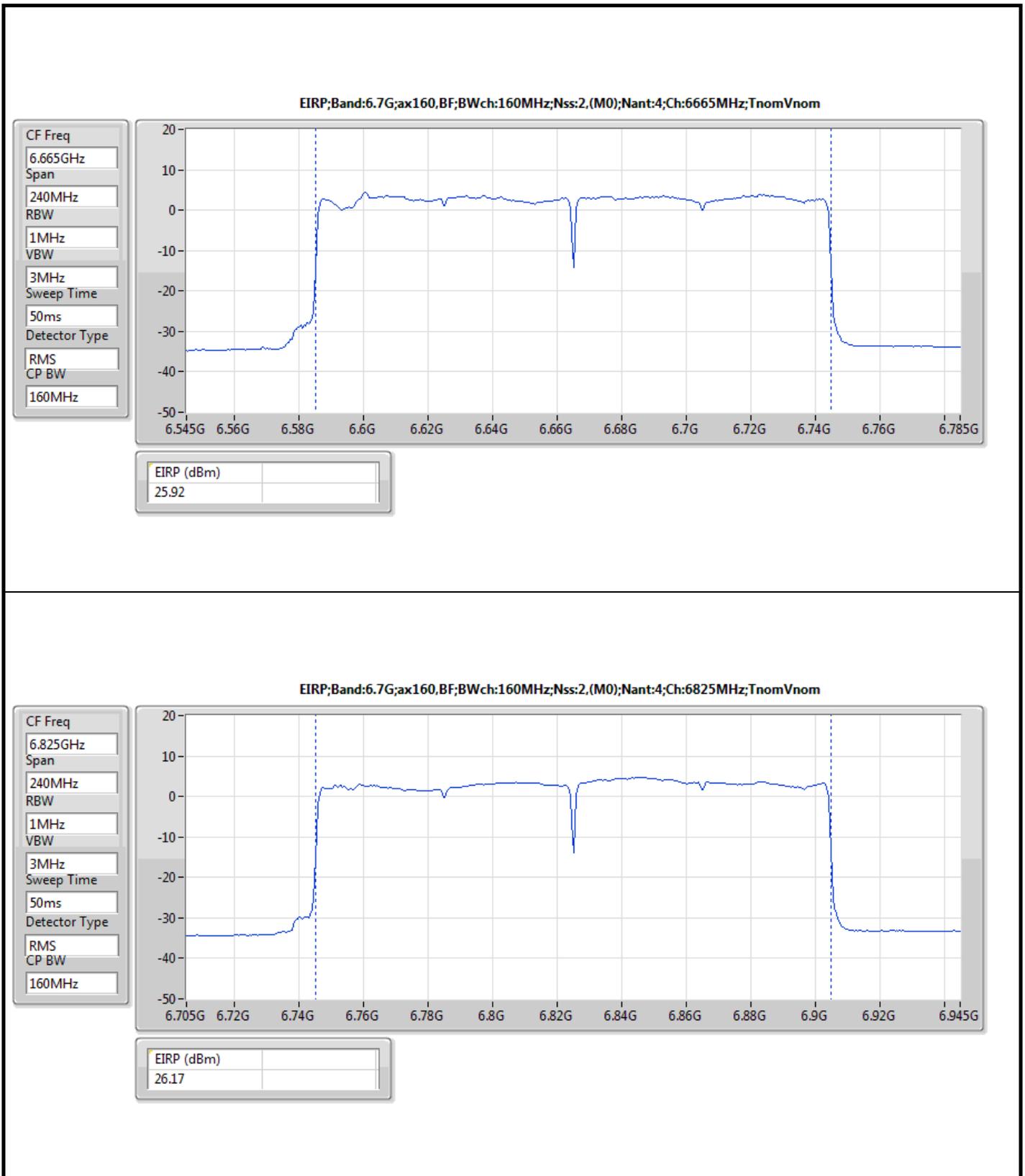


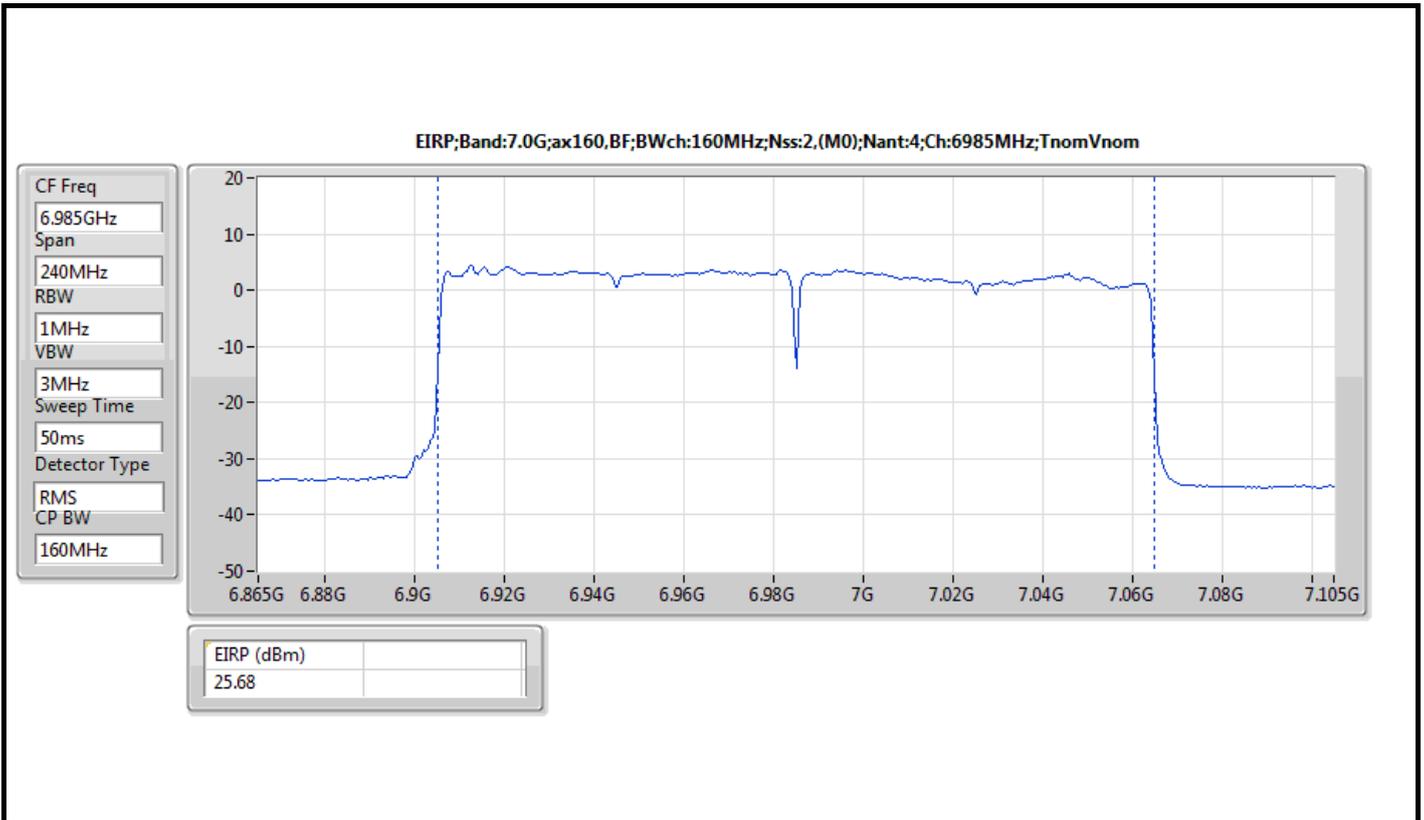














Summary

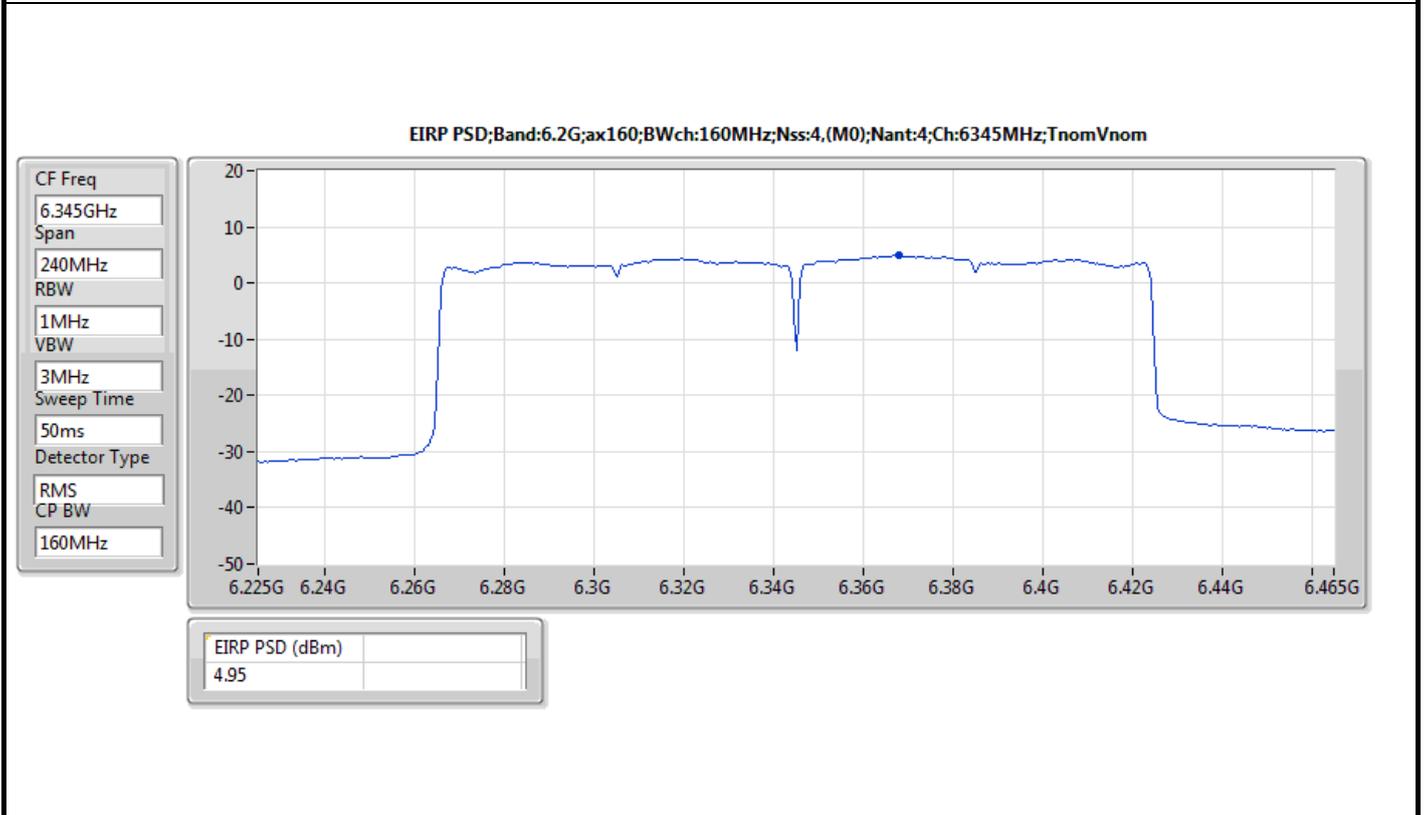
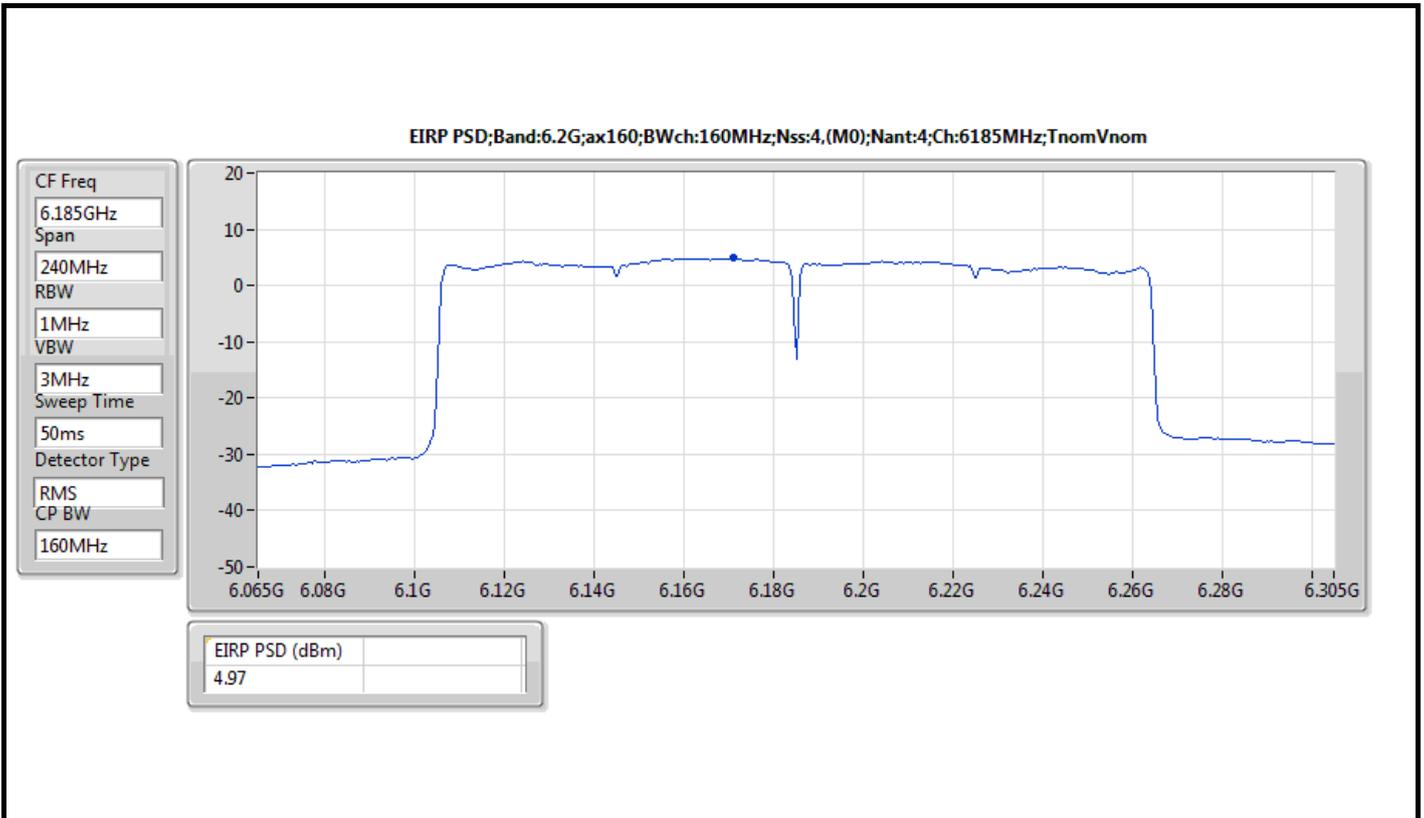
Mode	EIRP PD (dBm/RBW)
5.925-6.425GHz	-
802.11ax HEW160_Nss4,(MCS0)_4TX	4.97
6.425-6.525GHz	-
802.11ax HEW160_Nss4,(MCS0)_4TX	4.88
6.525-6.875GHz	-
802.11ax HEW160_Nss4,(MCS0)_4TX	4.93
6.875-7.125GHz	-
802.11ax HEW160_Nss4,(MCS0)_4TX	4.93

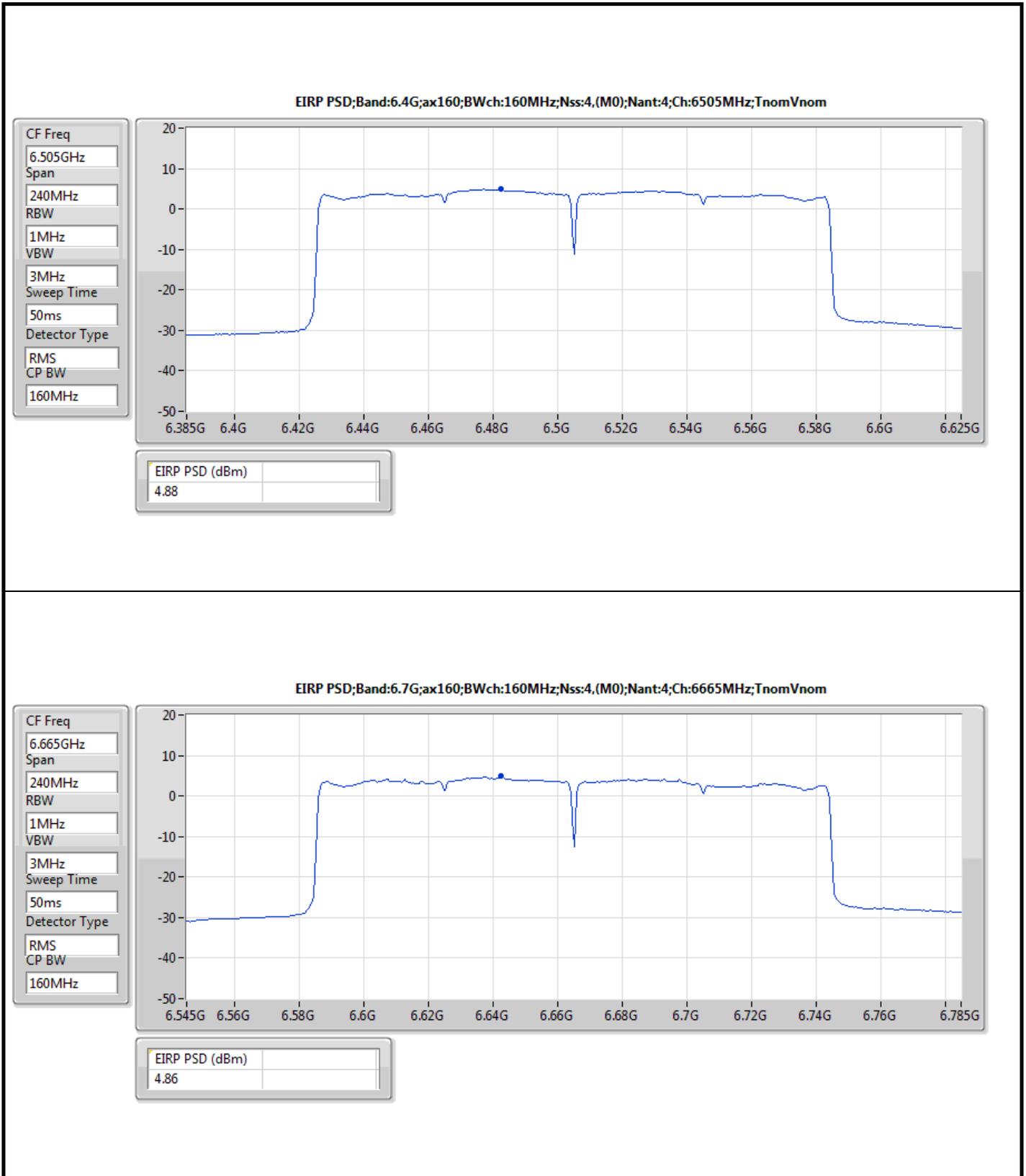


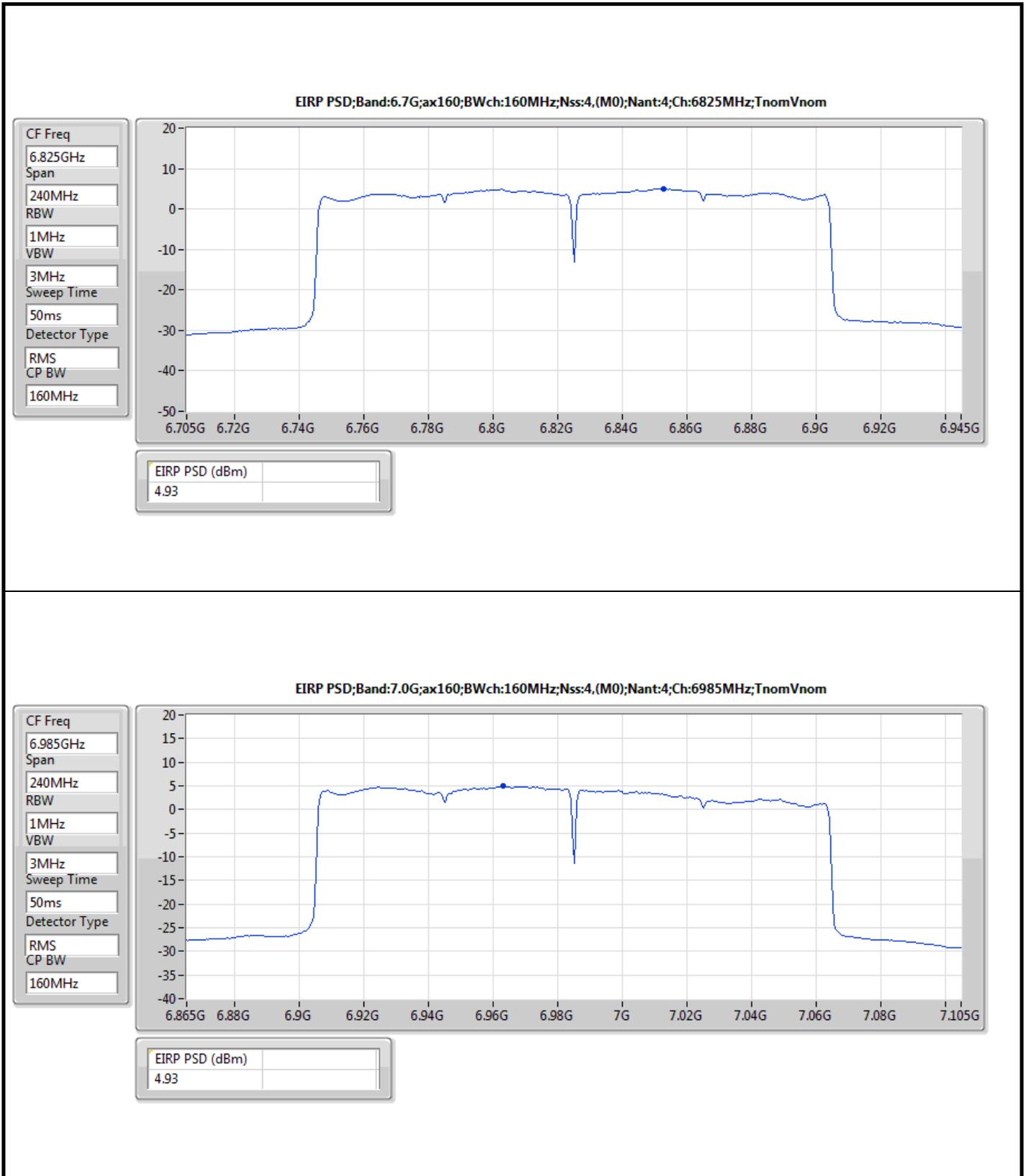
Result

Mode	Result	EIRP PSD (dBm/RBW)	EIRP PSD Limit (dBm/RBW)
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-
6185MHz	Pass	4.97	5.00
6345MHz	Pass	4.95	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.88	5.00
6665MHz	Pass	4.86	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	4.93	5.00
6985MHz	Pass	4.93	5.00

The test result used radiated measurement.







Summary

Mode	EIRP PD (dBm/RBW)
5.925-6.425GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.99
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.98
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.97
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.98
6.425-6.525GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.96
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.96
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.84
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.87
6.525-6.875GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.99
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.97
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.96
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.97
6.875-7.125GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.94
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.94
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.99
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.99

Result

Mode	Result	EIRP PSD (dBm/RBW)	EIRP PSD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-		
6115MHz	Pass	4.86	5.00
6255MHz	Pass	4.95	5.00
6415MHz	Pass	4.99	5.00
6435MHz	Pass	4.83	5.00
6475MHz	Pass	4.89	5.00
6515MHz	Pass	4.96	5.00
6535MHz	Pass	4.84	5.00
6695MHz	Pass	4.86	5.00
6855MHz	Pass	4.99	5.00
6875MHz Straddle 6.525-6.875GHz	Pass	4.92	5.00
6895MHz	Pass	4.94	5.00
6995MHz	Pass	4.80	5.00
7095MHz	Pass	4.87	5.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-
6125MHz	Pass	4.98	5.00
6245MHz	Pass	4.95	5.00
6405MHz	Pass	4.98	5.00
6445MHz	Pass	4.87	5.00
6485MHz	Pass	4.96	5.00
6525MHz Straddle 6.425-6.525GHz	Pass	4.87	5.00
6565MHz	Pass	4.8	5.00
6685MHz	Pass	4.97	5.00
6845MHz	Pass	4.82	5.00
6885MHz Straddle 6.525-6.875GHz	Pass	4.88	5.00
6925MHz	Pass	4.92	5.00
7005MHz	Pass	4.94	5.00
7085MHz	Pass	4.75	5.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-
6145MHz	Pass	4.94	5.00
6225MHz	Pass	4.9	5.00
6385MHz	Pass	4.97	5.00
6465MHz	Pass	4.79	5.00
6545MHz Straddle 6.425-6.525GHz	Pass	4.84	5.00
6625MHz	Pass	4.75	5.00
6705MHz	Pass	4.94	5.00
6785MHz	Pass	4.96	5.00
6865MHz Straddle 6.525-6.875GHz	Pass	4.88	5.00
6945MHz	Pass	4.94	5.00
7025MHz	Pass	4.99	5.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-
6185MHz	Pass	4.98	5.00
6345MHz	Pass	4.98	5.00
6505MHz Straddle 6.425-6.525GHz	Pass	4.87	5.00
6665MHz	Pass	4.97	5.00
6825MHz Straddle 6.525-6.875GHz	Pass	4.92	5.00
6985MHz	Pass	4.99	5.00

The test result used radiated measurement.

