

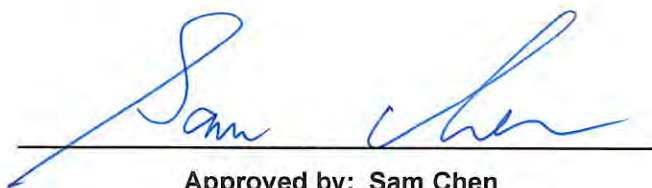


RADIO TEST REPORT

FCC ID : UDX-600155010
Equipment : Catalyst Wireless 9162I Series Wi-Fi 6E Access Point
Brand Name : CISCO
Model Name : CW9162I-B, CW9162I-MR
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 22, 2023, and testing was started from Aug. 22, 2023 and completed on Sep. 07, 2023. 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 variant 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: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	12
1.3 Testing Location Information	12
1.4 Measurement Uncertainty	12
2 Test Configuration of EUT	13
2.1 Test Channel Mode	13
2.2 The Worst Case Measurement Configuration	16
2.3 EUT Operation during Test	18
2.4 Accessories	18
2.5 Support Equipment.....	19
2.6 Test Setup Diagram	20
3 Transmitter Test Result	22
3.1 Emission Bandwidth	22
3.2 Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	23
3.3 Peak Power Spectral Density (E.I.R.P.)	26
3.4 Unwanted Emissions.....	29
4 Test Equipment and Calibration Data	33
Appendix A. Test Results of Emission Bandwidth	
Appendix B. Test Results of Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	
Appendix C. Test Results of Peak Power Spectral Density (E.I.R.P.)	
Appendix D. Test Results of Unwanted Emissions	
Appendix E. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_5 Ver1.1



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	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
3.3	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-
-	15.407(d)	Contention-Based Protocol	N/A	Standard Power AP w/o test

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

Reviewed by: Sam Chen**Report Producer: Sophia Shiung**



1 General Description

1.1 Information

1.1.1 RF General Information

For LPI AP

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-7125	ax (HEW20)	5955-7115	1-233 [59]
5925-7125	ax (HEW40)	5965-7085	3-227 [29]
5925-7125	ax (HEW80)	5985-7025	7-215 [14]
5925-7125	ax (HEW160)	6025-6985	15-207 [7]

For Radio 2

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	1, 2 TX
5.925-7.125GHz	802.11ax HEW20-BF	20	2 TX
5.925-7.125GHz	802.11ax HEW40	40	1, 2 TX
5.925-7.125GHz	802.11ax HEW40-BF	40	2 TX
5.925-7.125GHz	802.11ax HEW80	80	1, 2 TX
5.925-7.125GHz	802.11ax HEW80-BF	80	2 TX
5.925-7.125GHz	802.11ax HEW160	160	1, 2 TX
5.925-7.125GHz	802.11ax HEW160-BF	160	2 TX

For Scanning Radio 3

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	1 TX

**For Standard Power AP**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-6425	ax (HEW20)	5955-6415	1-93 [24]
6525-6875		6535-6855	117-181 [17]
5925-6425	ax (HEW40)	5965-6405	3-91 [12]
6525-6875		6565-6845	123-179 [8]
5925-6425	ax (HEW80)	5985-6385	7-87 [6]
6525-6875		6625-6785	135-167 [3]
5925-6425	ax (HEW160)	6025-6345	15-79 [3]
6525-6875		6665	143 [1]

For Radio 2

Band	Mode	BWch (MHz)	Nant
5925-6425 / 6525-6875 MHz	802.11ax HEW20	20	1, 2TX
5925-6425 / 6525-6875 MHz	802.11ax HEW20-BF	20	2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW40	40	1, 2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW40-BF	40	2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW80	80	1, 2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW80-BF	80	2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW160	160	1, 2 TX
5925-6425 / 6525-6875 MHz	802.11ax HEW160-BF	160	2 TX

For Scanning Radio 3

Band	Mode	BWch (MHz)	Nant
5925-6425 / 6525-6875 MHz	802.11ax HEW20	20	1 TX

Note:

- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port								Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz (Radio 1)		WLAN 5GHz (Radio 1)		WLAN 6E (Radio 2)		WLAN 2.4GHz / WLAN 5GHz / WLAN 6GHz (Scanning Radio 3)	BT (Radio 4)					
	1TX	2TX	1TX	2TX	1TX	2TX							
1	1	2	1	2	-	-	-	-	WNC	95XEAJ15.G19	PIFA	I-PEX	Note 1
2	-	1	-	1	-	-	-	-	WNC	95XEAJ15.G20	PIFA	I-PEX	
3	-	-	-	-	1	2	-	-	WNC	95XEAJ15.G21	Dipole	I-PEX	
4	-	-	-	-	-	1	-	-	WNC	95XEAJ15.G22	Dipole	I-PEX	
5	-	-	-	-	-	-	-	1	WNC	95XEAJ15.G23	PIFA	I-PEX	
6	-	-	-	-	-	-	1	-	WNC	95XEAJ15.G24	PIFA	I-PEX	

Note 1:

NOTE 1:

Ant.	Antenna Gain (dBi)																
	WLAN 2.4GHz (Radio 1)	WLAN 5GHz (Radio 1)					WLAN 6GHz (Radio 2)				WLAN 2.4GHz (Scanning Radio 3)	WLAN 5GHz (Scanning Radio 3)	WLAN 6GHz (Scanning Radio 3)				BT (Radio 4)
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 4	UNII 5	UNII 6	UNII 7	UNII 8		UNII 1~UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2.74	1.75	1.67	1.80	1.64	1.45	-	-	-	-	-	-	-	-	-	-	-
2	2.51	2.13	2.37	1.82	1.50	2.06	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	4.38	3.62	3.78	4.08	-	-	-	-	-	-	-
4	-	-	-	-	-	-	4.33	3.72	3.95	4.11	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.85
6	-	-	-	-	-	-	-	-	-	-	3.80	5.54	5.43	5.23	5.50	5.40	-

Ant.	Directional Gain (dBi)											
	WLAN 2.4GHz (Radio 1)		WLAN 5GHz (Radio 1)									
			UNII 1		UNII 2A		UNII 2C		UNII 3		UNII 4	
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
1	5.12	2.74	4.19	2.13	4.07	2.37	4.41	1.82	4.08	1.64	3.96	2.06
2												

Note 2: Directional gain information of Radio 2 6GHz UNII 5 and UNII 7

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{out}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{out}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{out}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{out}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20};$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$6G \text{ UNII-5 } G1 = 4.38 \text{ dBi} ; G2 = 4.33 \text{ dBi} ; DG = 7.37 \text{ dBi}$$

$$6G \text{ UNII-7 } G1 = 3.78 \text{ dBi} ; G2 = 3.95 \text{ dBi} ; DG = 6.88 \text{ dBi}$$

Note 3: The EUT has six antennas.

Note 4: The above information (excepting antenna gain of Radio 1 2.4GHz and 5GHz UNII 1~UNII 4) was declared by manufacturer.

Note 5: Radio 1 2.4GHz, 5GHz UNII 1~UNII 4: Maximum Directional Gain following KDB662911 D03.

For Radio 1

For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):

Only Port 1 can be use as transmitting antenna.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

For 5GHz UNII 1~4:

For IEEE 802.11a/n/ac/ax mode (1TX/2RX):

Only Port 1 can be use as transmitting antenna.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

**For IEEE 802.11a/n/ac/ax mode (2TX/2RX):**

Port 1, Port 2 can be use as transmitting antenna.
Port 1, Port 2 could transmitting simultaneously.
Port 1, Port 2 can be used as receiving antennas.
Port 1, Port 2 could receive simultaneously.

For Radio 2**For 6GHz UNII 5~8:****For IEEE 802.11ax mode (1TX/2RX):**

Only Port 1 can be use as transmitting antenna.
Port 1, Port 2 can be used as receiving antennas.
Port 1, Port 2 could receive simultaneously.

For IEEE 802.11ax mode (2TX/2RX):

Port 1, Port 2 can be use as transmitting antenna.
Port 1, Port 2 could transmitting simultaneously.
Port 1, Port 2 can be used as receiving antennas.
Port 1, Port 2 could receive simultaneously.

For Radio 4**Bluetooth (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Scanning Radio 3**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For 5GHz UNII 1~3:**For IEEE 802.11a/n/ac/ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For 6GHz UNII 5~8:**For IEEE 802.11ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

For Standard Power AP

<Radio 2>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.942	0.26	5.452m	300
802.11ax HEW40	0.947	0.24	5.452m	300
802.11ax HEW80	0.945	0.25	5.452m	300
802.11ax HEW160	0.938	0.28	5.452m	300
802.11ax HEW20-BF	0.931	0.31	5.452m	300
802.11ax HEW40-BF	0.944	0.25	1.978m	1k
802.11ax HEW80-BF	0.952	0.21	1.89m	1k
802.11ax HEW160-BF	0.866	0.62	1.94m	1k

<Radio 3>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20_Nss 1,(M0)	0.855	0.68	5.452m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in radio 1 2.4GHz, 11n/11ac/ax in radio 1 5GHz UNII 1~4 and 11ax in radio 2 6GHz.			
Device Type	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client	☒	Standard Power Access Point
	☐	Dual Client	☐	Standard Client
	☐	Fixed Client		
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For RF Conducted Beamforming mode: DOS V6.1.7601 For other test modes: Version 5.0-00199			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	EUT No.	SW
CW9162I-B	1	Cisco
CW9162I-MR	2	Meraki

Note 1: From the above models, model: CW9162I-B (EUT 1) was selected for all test items.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for Radio function

Radio (R)	WLAN 2.4GHz	5GHz UNII 1~3	5GHz UNII 4	6GHz UNII 5~8	Bluetooth
R1	V	V	V	-	-
R2	-	-	-	V	-
R3 (Scanning radio)	V	V	-	V	-
R4	-	-	-	-	V

Note: The above information was declared by manufacturer.

1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR230306AC.

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding Standard Power mode for the EUT	1. Emission Bandwidth 2. Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) 3. Peak Power Spectral Density (E.I.R.P.) 4. Unwanted Emissions > 1GHz



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 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Nyle Chang	24.2~24.6 / 51~63	Sep. 04, 2023~ Sep. 07, 2023
Radiated	03CH01-CB	Gordon Hung	21.2~22.6 / 62~65	Aug. 22, 2023~ Aug. 31, 2023
	03CH02-CB		22.2~22.8 / 61~64	

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
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Standard Power AP

<Radio 2>

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5955MHz	23.5
6195MHz	25
6415MHz	24.5
6535MHz	24.5
6695MHz	25
6855MHz	25
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5965MHz	20.5
6205MHz	25
6405MHz	24
6565MHz	25
6685MHz	25
6845MHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5985MHz	20.5
6225MHz	25
6385MHz	24
6625MHz	25
6705MHz	25
6785MHz	25
802.11ax HEW160_Nss1,(MCS0)_1TX	-
6025MHz	21
6185MHz	25
6345MHz	23.5
6665MHz	25
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5955MHz	20.5
6195MHz	25
6415MHz	23.5
6535MHz	23.5
6695MHz	25
6855MHz	25



Mode	Power Setting
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5965MHz	19.5
6205MHz	25
6405MHz	23
6565MHz	25
6685MHz	25
6845MHz	23.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5985MHz	19.5
6225MHz	25
6385MHz	23
6625MHz	25
6705MHz	25
6785MHz	25
802.11ax HEW160_Nss1,(MCS0)_2TX	-
6025MHz	20
6185MHz	25
6345MHz	22
6665MHz	25
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	-
5955MHz	20
6195MHz	20
6415MHz	20
6535MHz	20
6695MHz	20
6855MHz	20
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	-
5965MHz	20
6205MHz	20
6405MHz	20
6565MHz	20
6685MHz	20
6845MHz	20
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	-
5985MHz	20
6225MHz	20
6385MHz	20
6625MHz	20
6705MHz	20



Mode	Power Setting
6785MHz	20
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	-
6025MHz	20
6185MHz	20
6345MHz	20
6665MHz	20

<Radio 3>

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5955MHz	22.5
6195MHz	24
6415MHz	21.5
6535MHz	21.5
6695MHz	24
6855MHz	22



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Emission MASK
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R2: 1TX (Standard Power)
2	EUT 1_R2: 2TX_Non beamforming mode (Standard Power)
3	EUT 1_R2: 2TX_Beamforming mode (Standard Power)
4	EUT 1_Scanning R3 (Standard Power)

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	Radiated measurement 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. Thus, the measurement will follow this same test configuration.
1	EUT 1 in Y axis_R2: 1TX (Standard Power)
2	EUT 1 in Y axis_R2: 2TX_Non beamforming mode (Standard Power)
3	EUT 1 in Y axis_R2: 2TX_Beamforming mode (Standard Power)
Test Condition	Conducted measurement at transmit chains
4	EUT 1_Scanning R3 (Standard Power)

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	CTX The EUT was performed at X axis, Y axis and Z axis position test. The worst cases were found at Y axis in Radio 2 and X axis in Scanning Radio 3, so the measurement will follow these same test configurations.
1	EUT 1 in Y axis_R2: 1TX (Standard Power)
2	EUT 1 in Y axis_R2: 2TX_Non beamforming mode (Standard Power)
3	EUT 1 in Y axis_R2: 2TX_Beamforming mode (Standard Power)
4	EUT 1 in X axis_Scanning R3 (Standard Power)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 2.4GHz
2	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 5GHz
3	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 6GHz (LPI mode)
4	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 2.4GHz
5	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 5GHz
6	EUT 1_R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 6GHz (Standard Power mode)
Refer to Sporton Test Report No.: FA230306-20 for Co-location RF Exposure Evaluation.	

Note: The Adapter and PoEs are for measurement only, would not be marketed.

Adapter and PoEs information as below:

Power	Brand	Model
Adapter	CISCO	MA-PWR-30W-US (MA-PWR-30W)
PoE 1	CISCO	POE16U-1AF (AIR-PWRINJ5)
PoE 2	CISCO	SB-PWR-INJ2 (AIR-PWRINJ6)
PoE 3	PHIHONG	POE29U-1AT(PL) (AIR-PWRINJ6)
PoE 4	Delta	ADH-65AR B (AIR-PWRINJ7)
PoE 5	PHIHONG	POEA33U-1ATE (MA-INJ-4)
PoE 6	PHIHONG	POE60U-1BT-X (MA-INJ-6)

According to the manufacturer's declaration, the console port is not used for end-users.



2.3 EUT Operation during Test

<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.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

2.4 Accessories

Accessories
Bracket*1



2.5 Support Equipment

For Radiated (above 1GHz) and RF Radiated (Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) and Peak Power Spectral Density (E.I.R.P.):

<Non-beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Adapter	CISCO	MA-PWR-30W-US (MA-PWR-30W)	N/A

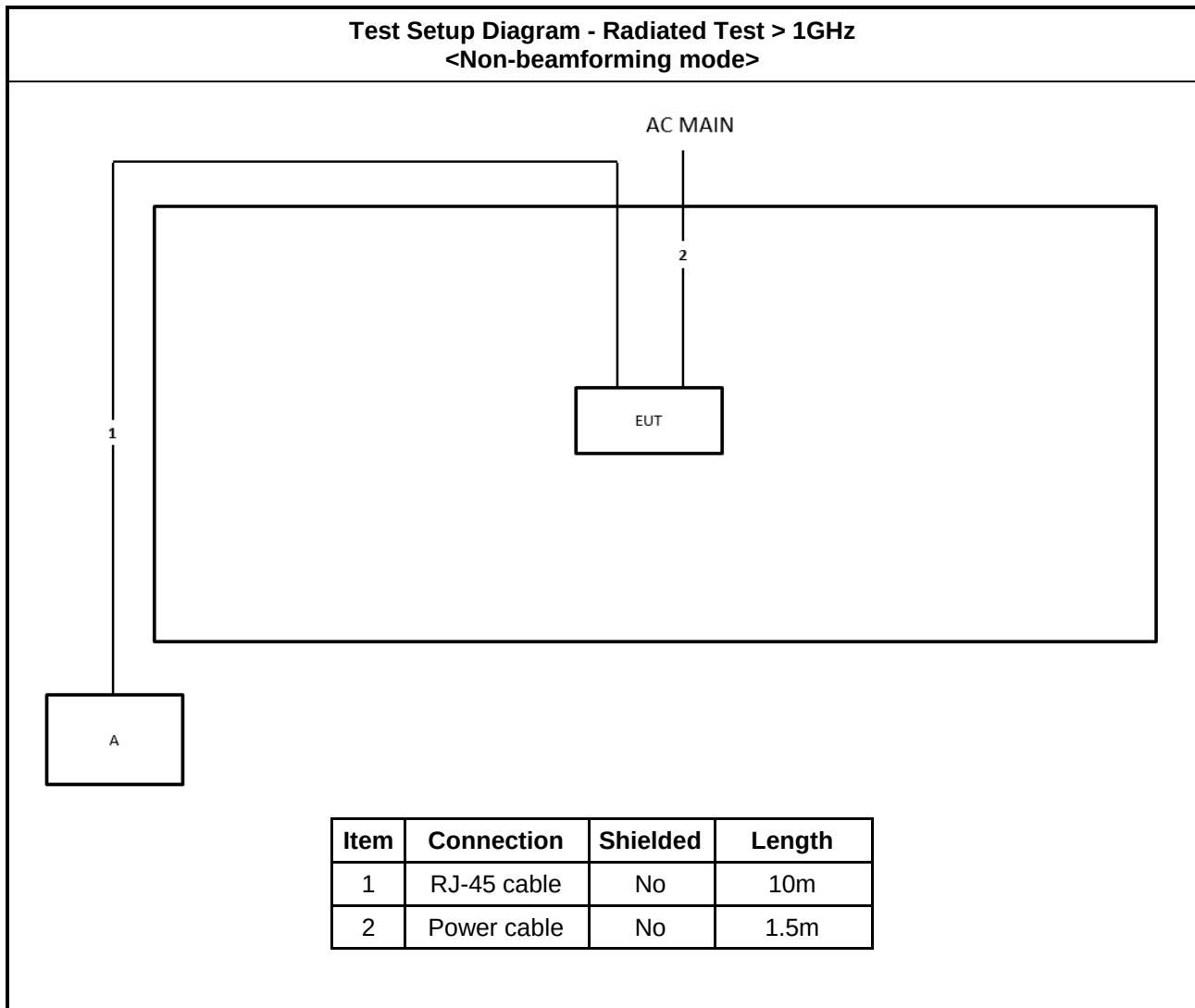
<Beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Client	CISCO	RXAQ-MR2	N/A
D	Adapter	CISCO	MA-PWR-30W-US (MA-PWR-30W)	N/A

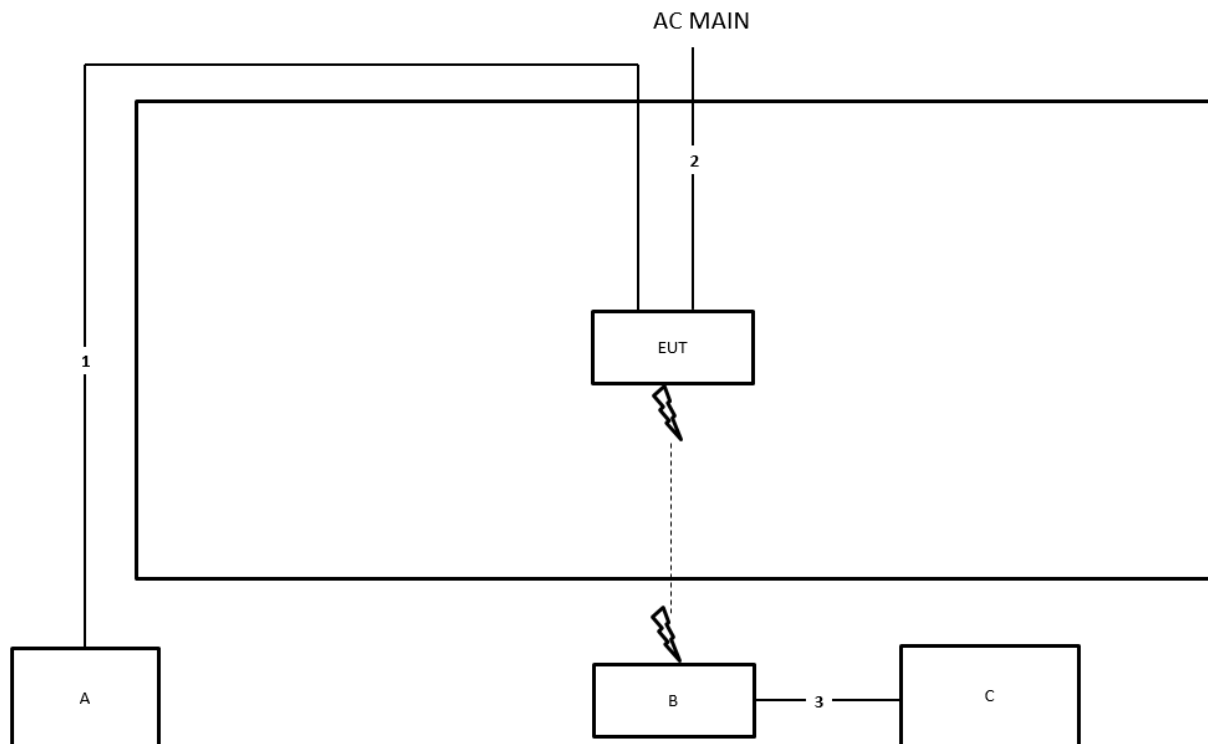
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Adapter	CISCO	MA-PWR-30W-US (MA-PWR-30W)	N/A

2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test > 1GHz
<Beamforming mode>**



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

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5925-6425 GHz band, N/A
☐	For the 6425-6525 GHz band, N/A
☒	For the 6525-6875 GHz band, N/A
☐	For the 6875-7125 GHz band, N/A
RLAN Devices	
☐	For the 5925-6425 GHz band, N/A
☐	For the 6425-6525 GHz band, N/A
☐	For the 6525-6875 GHz band, N/A
☐	For the 6875-7125 GHz band, N/A

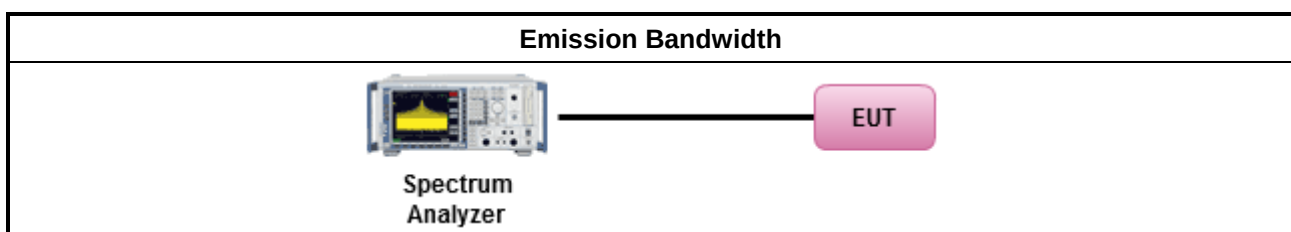
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	According to FCC 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.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



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

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

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ 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.
☐ For the 6.425 ~ 6.525 GHz band:	
	■ 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.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ 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.
☐ For the 6.875 ~ 7.125 GHz band:	
	■ 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.
RLAN Devices	
☐ For the 5.925 ~ 7.125 GHz band:	
	■ For low-power indoor access-points & indoor subordinate devices < 30 dBm .
	■ For low-power client devices < 24 dBm.
☐ For the 5.925 ~ 6.875 GHz band:	
	■ For standard-power access points & fixed client devices < 36 dBm.
	■ For standard client devices < 30 dBm.



3.2.2 Measuring Instruments

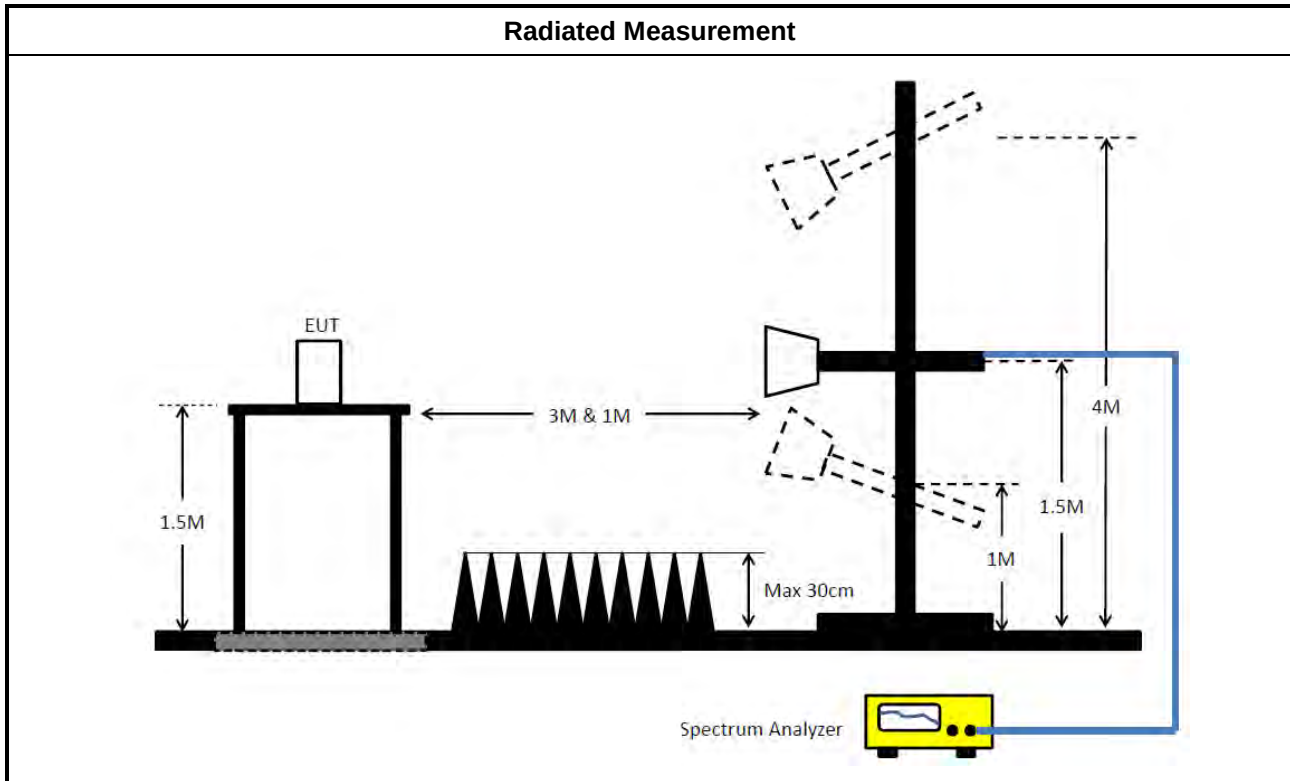
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

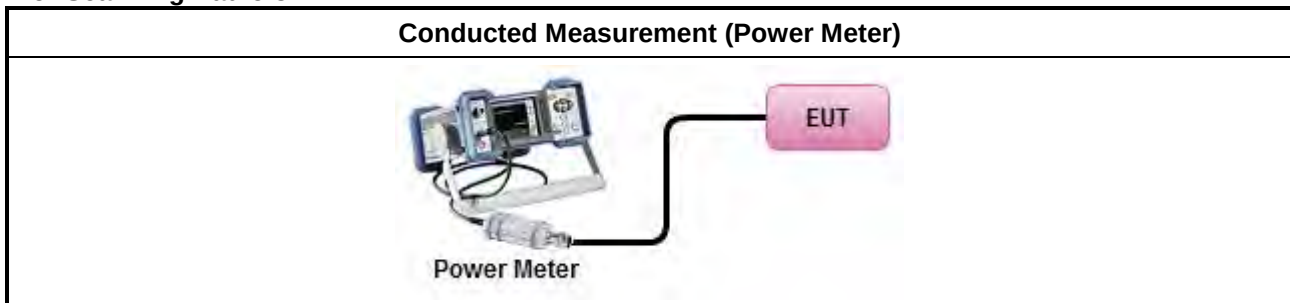
Test Method	
▪ According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.	
	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). Spectrum analyzer setting: RBW/VBW : 1/3MHz ; Detector : RMS ; Trace mode : Average ; Sweep Count 100.
	☐ 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
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒ For conducted measurement.	
	▪ 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]) $EIRP_{total} = P_{total} + DG$
☒ For radiated measurement.	
	▪ Refer as FCC KDB 789033 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.

3.2.4 Test Setup

For Radio 2



For Scanning Radio 3



3.2.5 Test Result of Maximum Equivalent Isotopically Radiated Power (E.I.R.P)

Refer as Appendix B

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

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

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
☒	For the 5.925 ~ 6.425 GHz band:
☐	For the 6.425 ~ 6.525 GHz band:
☒	For the 6.525 ~ 6.875 GHz band:
☐	For the 6.875 ~ 7.125 GHz band:
RLAN Devices	
☐	For the 5.925 ~ 7.125 GHz band:
☐	For the 5.925 ~ 6.875 GHz band:

3.3.2 Measuring Instruments

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

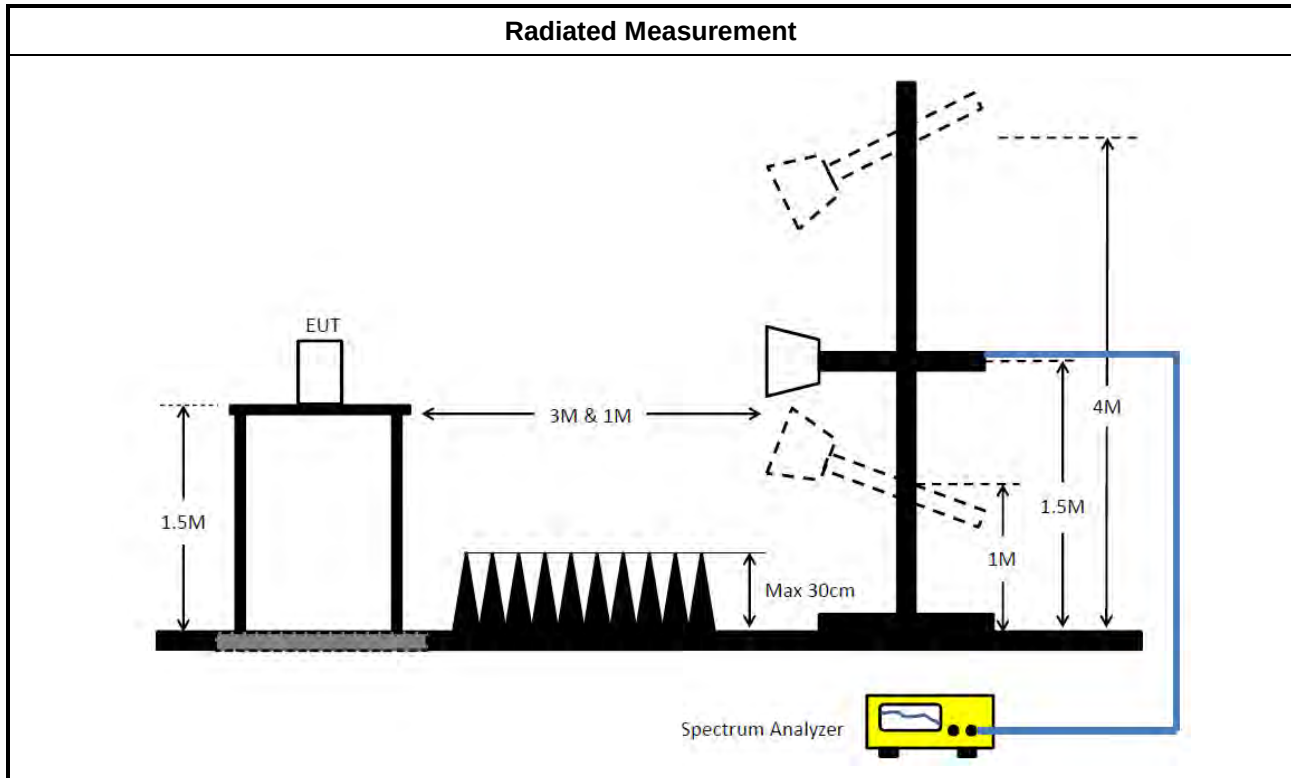
**3.3.3 Test Procedures**

Test Method	
According to FCC 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:	
☐	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]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	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	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒	For conducted measurement.
If the EUT supports multiple transmit chains using options given below:	
☐	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.
☐	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,
☐	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]) $EIRP_{total} = PPSD_{total} + DG$	
☒	For radiated measurement.
Refer as FCC KDB 789033 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.	

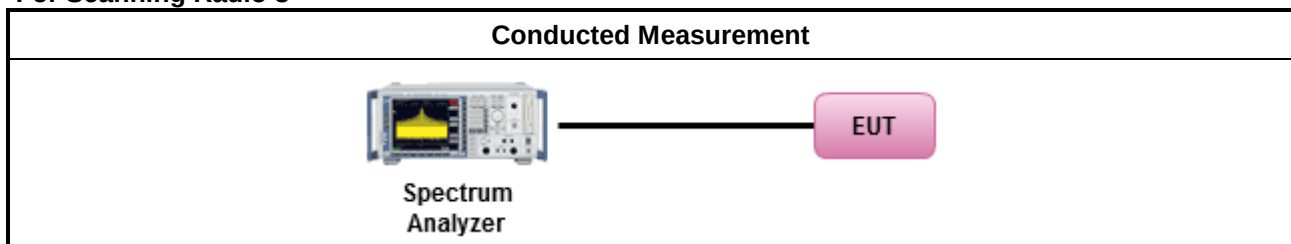
Test Method	
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For Radio 2



For Scanning Radio 3



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

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

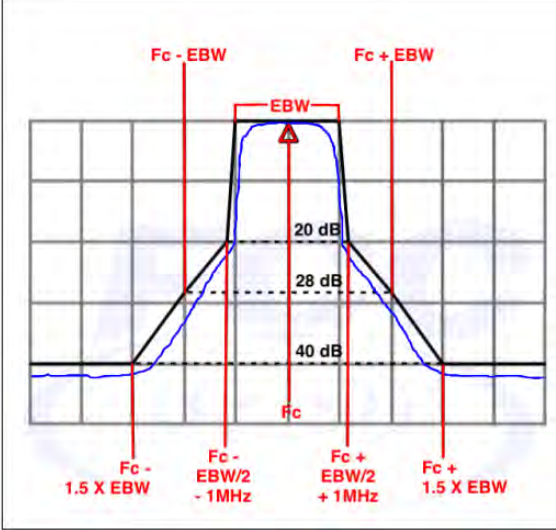
Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
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) = $54\text{dBuV/m at 3m} + 9.54\text{dB} = 63.54\text{dBuV/m at 1m}$.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] 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) = $68.2\text{dBuV/m at 3m} + 9.54\text{dB} = 77.74\text{dBuV/m at 1m}$. 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.

Frequency	Emission MASK Limit
5.945 – 7.125 GHz	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. 



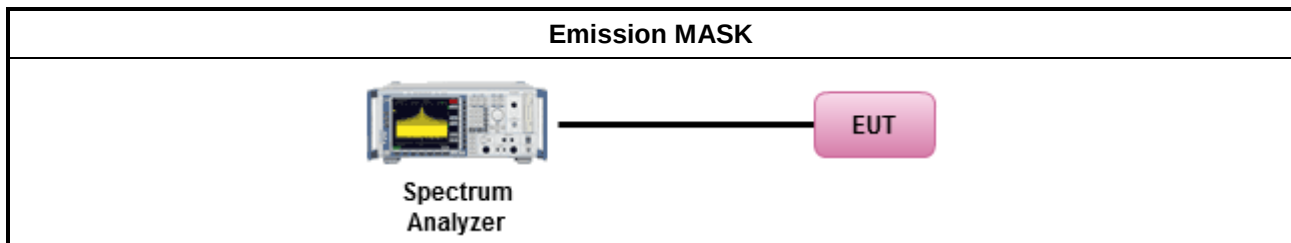
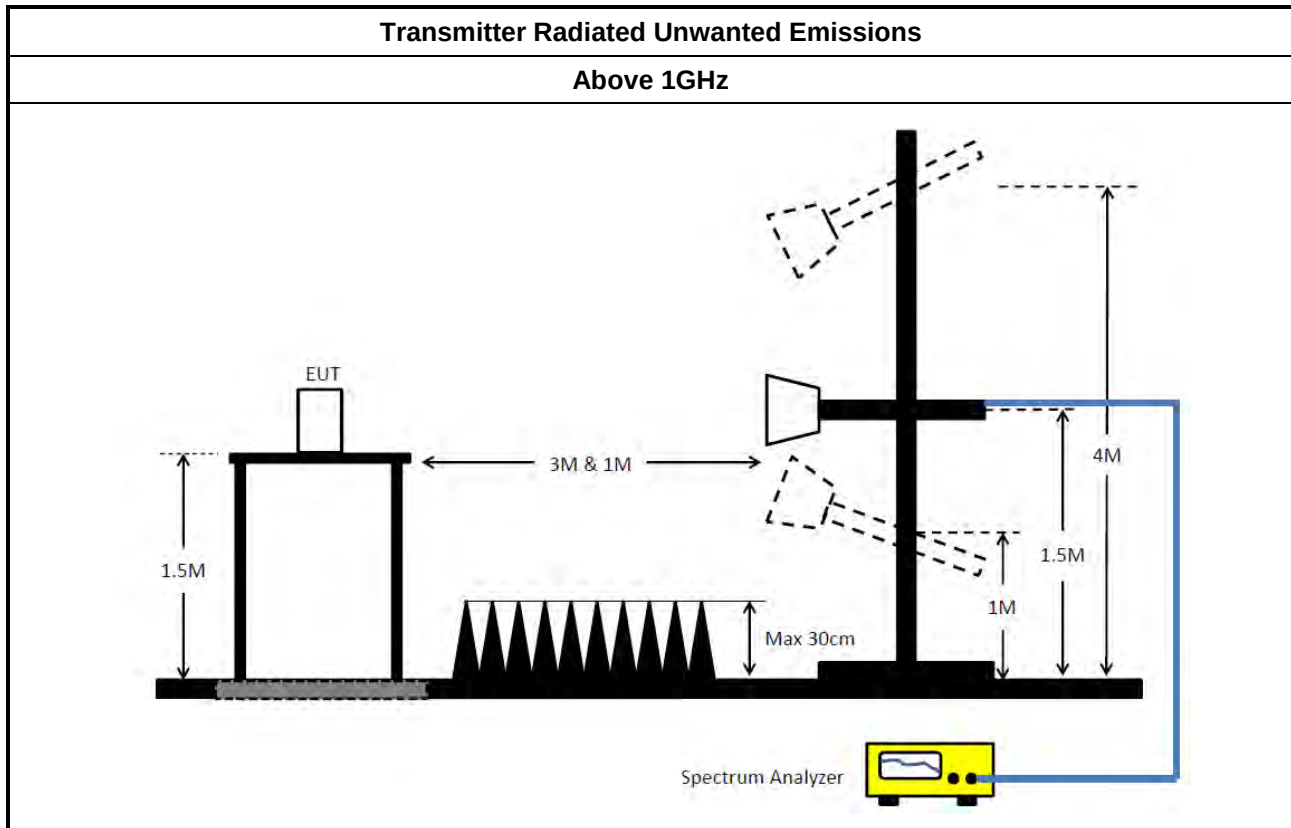
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
According to FCC 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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.(For restricted band average measurement)
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
Refer as FCC KDB 789033 D02, clause G)3)d)ii) for Band edge Integration measurements.	
For emission MASK shall be measured using following options below:	
	☒ Refer as FCC KDB 987594 D02, J) In-Band Emissions
For radiated measurement.	
	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.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup



3.4.5 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

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Band Rejector	MTJ	6G Band Rejector	CB6G-BRJ-01	1GHz ~ 7.4GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
Band Rejector	MTJ	6G Band Rejector	CB6G-BRJ-02	1GHz ~ 8GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

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_Nss1,(MCS0)_1TX	39.93M	21.989M	22M0D1D	37.895M	19.24M
802.11ax HEW20_Nss1,(MCS0)_2TX	47.025M	28.336M	28M3D1D	21.175M	19.065M
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	21.45M	19.04M	19M0D1D	20.625M	18.991M
802.11ax HEW40_Nss1,(MCS0)_1TX	88.44M	56.522M	56M5D1D	38.94M	37.781M
802.11ax HEW40_Nss1,(MCS0)_2TX	99.99M	63.868M	63M9D1D	39.38M	37.531M
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	39.71M	37.731M	37M7D1D	39.38M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	170.72M	108.446M	108MD1D	80.52M	77.061M
802.11ax HEW80_Nss1,(MCS0)_2TX	197.56M	125.937M	126MD1D	80.74M	76.962M
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	81.62M	77.161M	77M2D1D	80.52M	76.262M
802.11ax HEW160_Nss1,(MCS0)_1TX	367.4M	225.087M	225MD1D	164.12M	154.723M
802.11ax HEW160_Nss1,(MCS0)_2TX	397.76M	243.078M	243MD1D	162.36M	154.323M
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	164.12M	155.322M	155MD1D	161.92M	152.524M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	50.38M	36.307M	36M3D1D	31.515M	19.69M
802.11ax HEW20_Nss1,(MCS0)_2TX	54.175M	37.381M	37M4D1D	27.83M	19.165M
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	21.065M	19.04M	19M0D1D	20.57M	18.991M
802.11ax HEW40_Nss1,(MCS0)_1TX	98.78M	65.567M	65M6D1D	84.15M	59.22M
802.11ax HEW40_Nss1,(MCS0)_2TX	104.39M	68.666M	68M7D1D	90.09M	52.124M
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	39.82M	37.681M	37M7D1D	39.16M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	205.92M	130.135M	130MD1D	187.44M	120.44M
802.11ax HEW80_Nss1,(MCS0)_2TX	220.22M	139.13M	139MD1D	184.36M	119.44M
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	82.06M	77.161M	77M2D1D	80.52M	76.862M
802.11ax HEW160_Nss1,(MCS0)_1TX	380.16M	251.874M	252MD1D	380.16M	251.874M
802.11ax HEW160_Nss1,(MCS0)_2TX	390.72M	263.268M	263MD1D	388.96M	252.874M
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	163.24M	154.523M	155MD1D	161.92M	154.523M

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

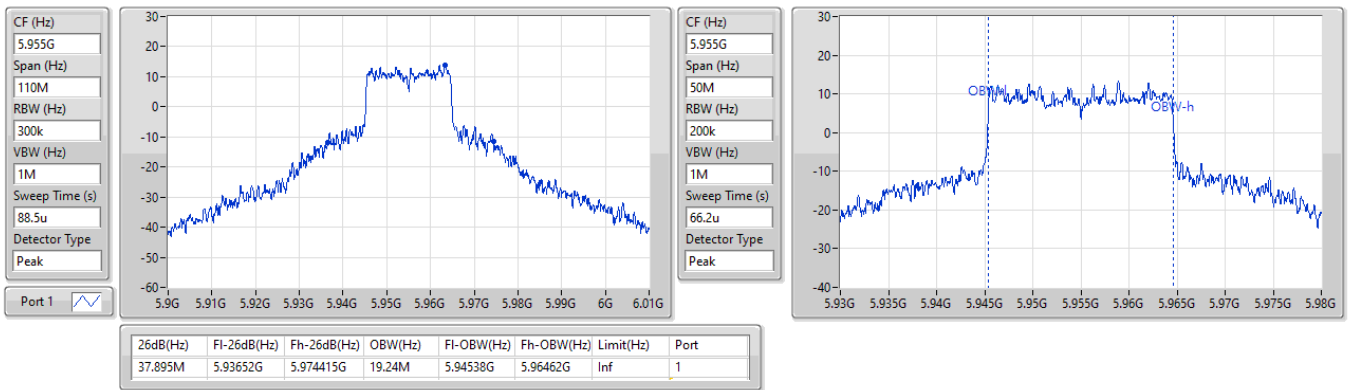
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5955MHz	Pass	Inf	37.895M	19.24M	-	-
6195MHz	Pass	Inf	39.93M	21.989M	-	-
6415MHz	Pass	Inf	38.995M	19.89M	-	-
6535MHz	Pass	Inf	31.515M	19.69M	-	-
6695MHz	Pass	Inf	50.38M	30.66M	-	-
6855MHz	Pass	Inf	49.17M	36.307M	-	-
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5965MHz	Pass	Inf	38.94M	37.781M	-	-
6205MHz	Pass	Inf	88.44M	56.522M	-	-
6405MHz	Pass	Inf	72.6M	39.93M	-	-
6565MHz	Pass	Inf	84.15M	59.22M	-	-
6685MHz	Pass	Inf	98.78M	65.567M	-	-
6845MHz	Pass	Inf	91.96M	59.42M	-	-
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.52M	77.061M	-	-
6225MHz	Pass	Inf	170.72M	108.446M	-	-
6385MHz	Pass	Inf	168.52M	79.56M	-	-
6625MHz	Pass	Inf	187.44M	120.44M	-	-
6705MHz	Pass	Inf	205.92M	125.537M	-	-
6785MHz	Pass	Inf	205.04M	130.135M	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-	-	-
6025MHz	Pass	Inf	164.12M	154.723M	-	-
6185MHz	Pass	Inf	367.4M	225.087M	-	-
6345MHz	Pass	Inf	308.88M	158.121M	-	-
6665MHz	Pass	Inf	380.16M	251.874M	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.175M	19.065M	21.615M	19.09M
6195MHz	Pass	Inf	47.025M	28.336M	45.43M	24.588M
6415MHz	Pass	Inf	37.235M	19.765M	28.105M	19.215M
6535MHz	Pass	Inf	37.565M	19.415M	27.83M	19.165M
6695MHz	Pass	Inf	52.085M	30.36M	53.13M	33.258M
6855MHz	Pass	Inf	54.175M	37.381M	53.295M	35.082M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.82M	37.681M	39.38M	37.531M
6205MHz	Pass	Inf	99.99M	63.868M	91.08M	59.72M
6405MHz	Pass	Inf	75.57M	38.381M	57.09M	37.981M
6565MHz	Pass	Inf	99.77M	66.517M	91.74M	56.372M
6685MHz	Pass	Inf	100.65M	65.017M	104.39M	68.666M
6845MHz	Pass	Inf	90.09M	57.621M	91.41M	52.124M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	82.5M	76.962M	80.74M	77.061M
6225MHz	Pass	Inf	197.56M	125.937M	186.56M	114.743M
6385MHz	Pass	Inf	161.26M	79.26M	120.34M	77.761M
6625MHz	Pass	Inf	196.9M	129.235M	184.36M	119.44M
6705MHz	Pass	Inf	194.04M	124.338M	210.32M	132.534M
6785MHz	Pass	Inf	203.06M	135.432M	220.22M	139.13M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	163.68M	154.723M	162.36M	154.323M
6185MHz	Pass	Inf	397.76M	243.078M	372.68M	233.483M
6345MHz	Pass	Inf	316.8M	157.521M	217.36M	155.722M
6665MHz	Pass	Inf	388.96M	263.268M	390.72M	252.874M
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.23M	18.991M	21.395M	19.015M
6195MHz	Pass	Inf	21.45M	19.04M	20.625M	19.04M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6415MHz	Pass	Inf	20.845M	19.04M	21.065M	19.015M
6535MHz	Pass	Inf	20.79M	19.015M	20.955M	19.015M
6695MHz	Pass	Inf	20.57M	19.015M	21.065M	19.04M
6855MHz	Pass	Inf	20.79M	18.991M	20.845M	19.015M
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.71M	37.581M	39.38M	37.731M
6205MHz	Pass	Inf	39.38M	37.681M	39.6M	37.581M
6405MHz	Pass	Inf	39.49M	37.731M	39.6M	37.581M
6565MHz	Pass	Inf	39.49M	37.581M	39.38M	37.631M
6685MHz	Pass	Inf	39.82M	37.681M	39.16M	37.631M
6845MHz	Pass	Inf	39.38M	37.681M	39.38M	37.581M
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	81.4M	77.161M	81.62M	76.762M
6225MHz	Pass	Inf	81.62M	76.862M	81.62M	77.061M
6385MHz	Pass	Inf	81.18M	76.962M	80.52M	76.262M
6625MHz	Pass	Inf	80.52M	76.862M	81.18M	76.862M
6705MHz	Pass	Inf	80.74M	76.862M	81.18M	77.161M
6785MHz	Pass	Inf	81.4M	76.862M	82.06M	77.061M
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	164.12M	154.123M	162.8M	154.523M
6185MHz	Pass	Inf	162.36M	154.123M	162.36M	155.322M
6345MHz	Pass	Inf	163.24M	154.723M	161.92M	152.524M
6665MHz	Pass	Inf	163.24M	154.523M	161.92M	154.523M

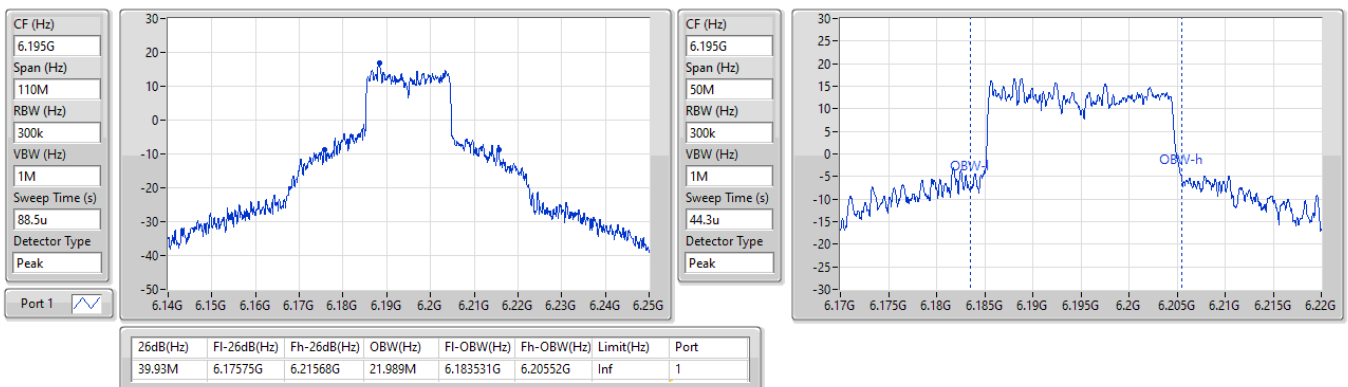
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5955MHz

04/09/2023

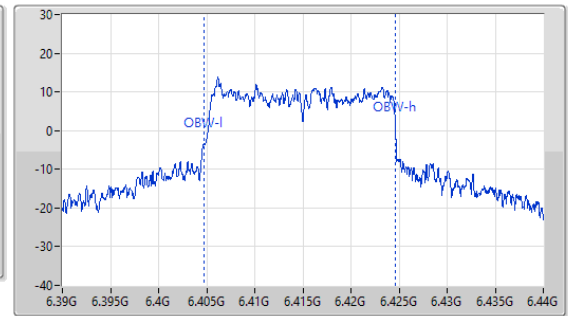
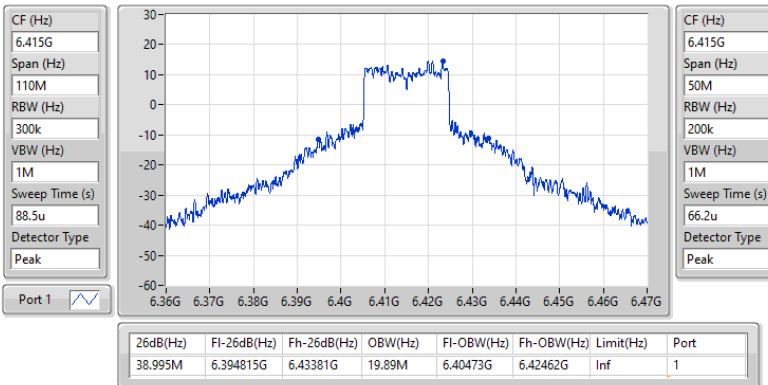

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6195MHz

04/09/2023

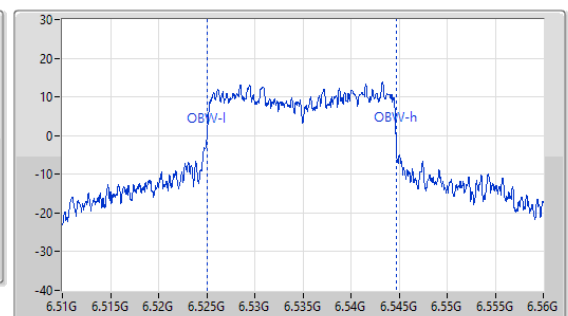
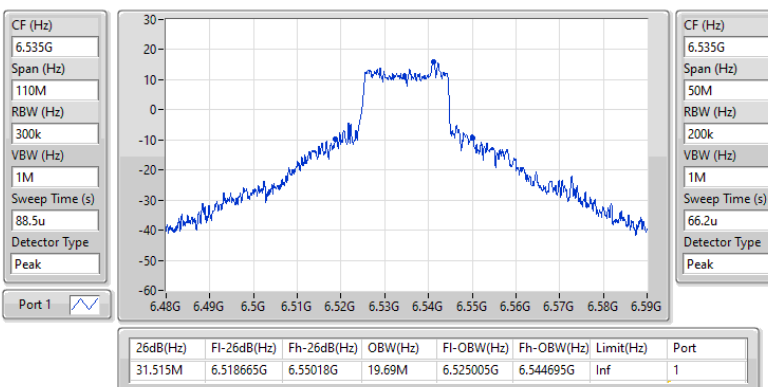


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6415MHz

04/09/2023

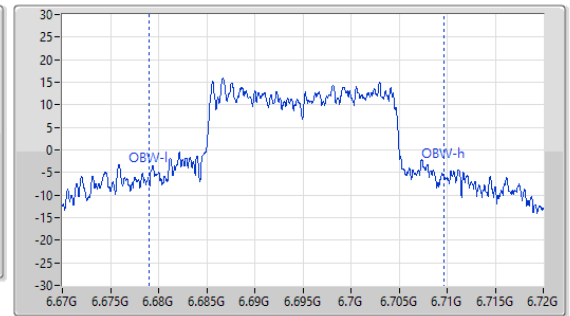
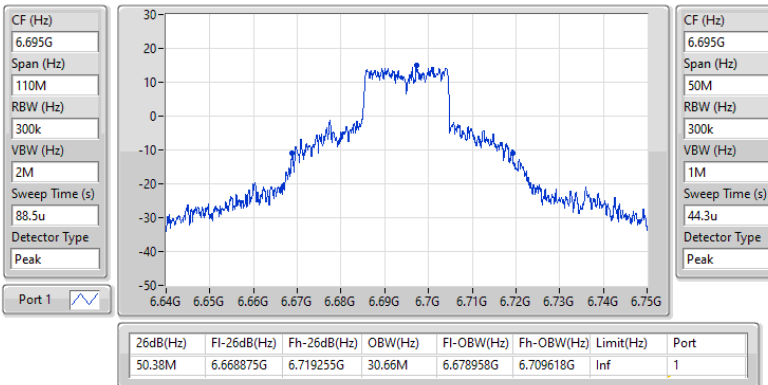

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6535MHz

04/09/2023

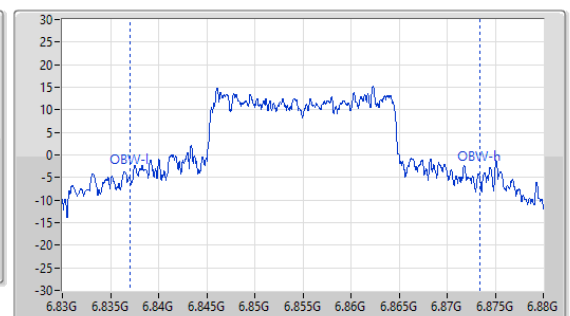
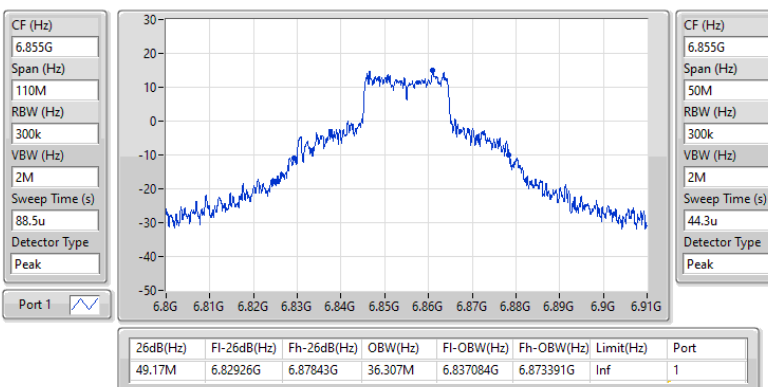


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6695MHz

04/09/2023

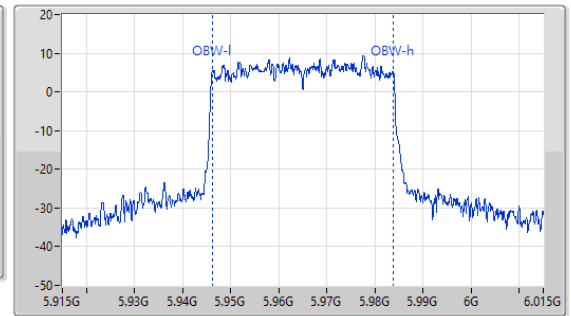
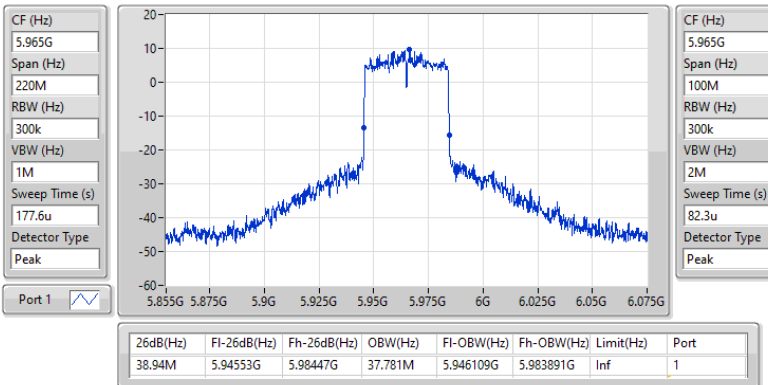

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6855MHz

04/09/2023

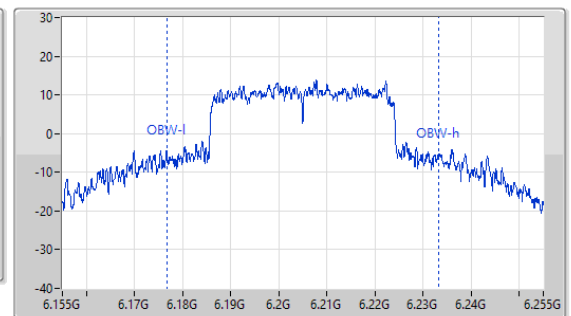
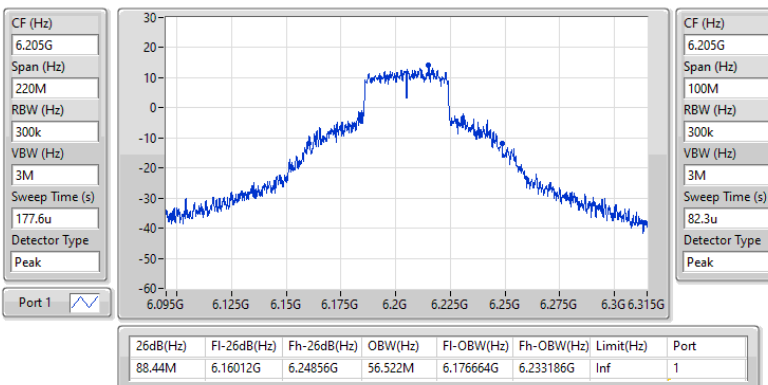


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5965MHz

04/09/2023

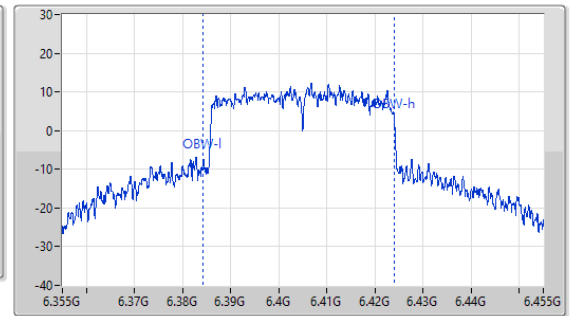
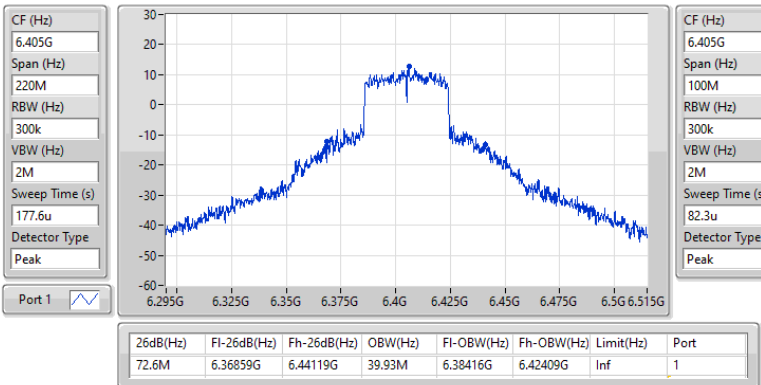

5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6205MHz

04/09/2023

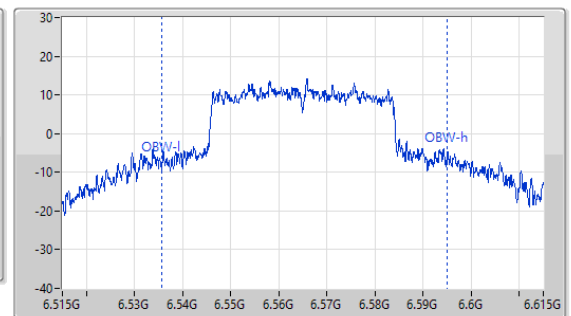
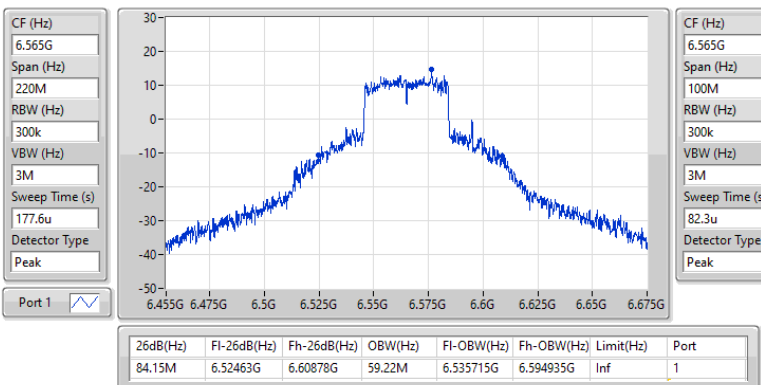


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6405MHz

04/09/2023

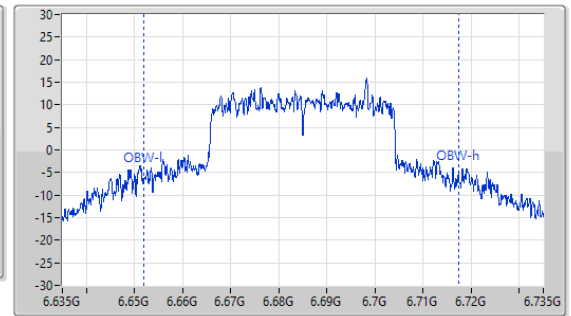
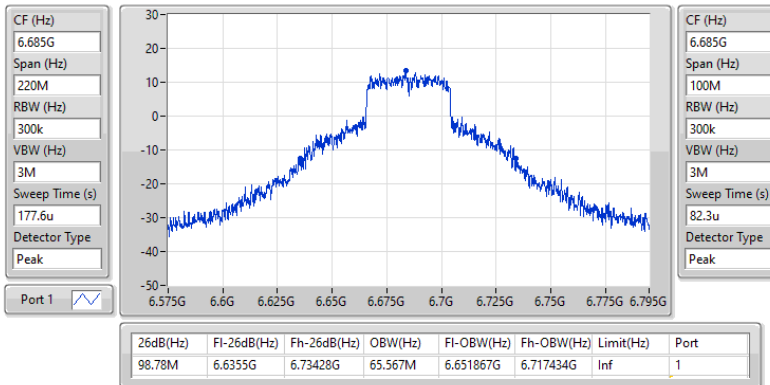

6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6565MHz

04/09/2023

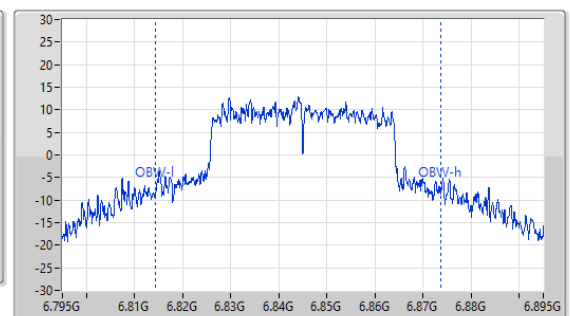
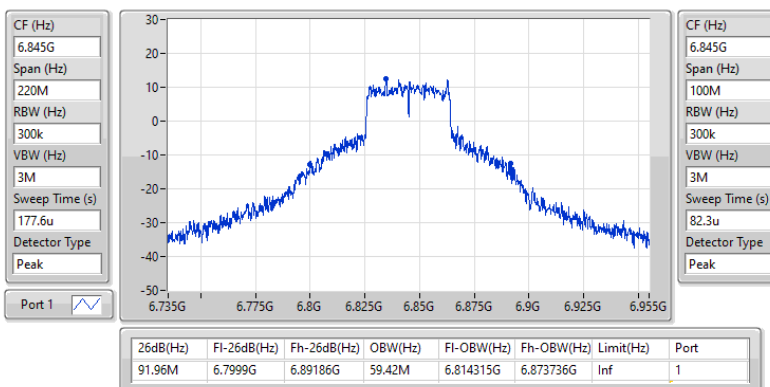


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6685MHz

04/09/2023

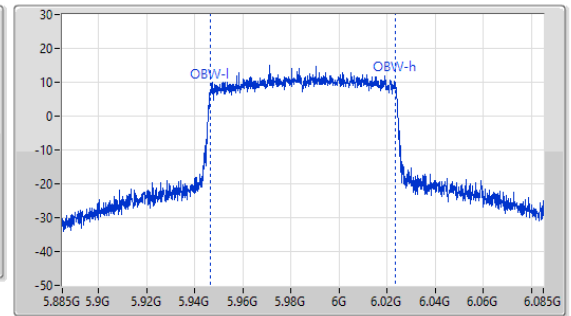
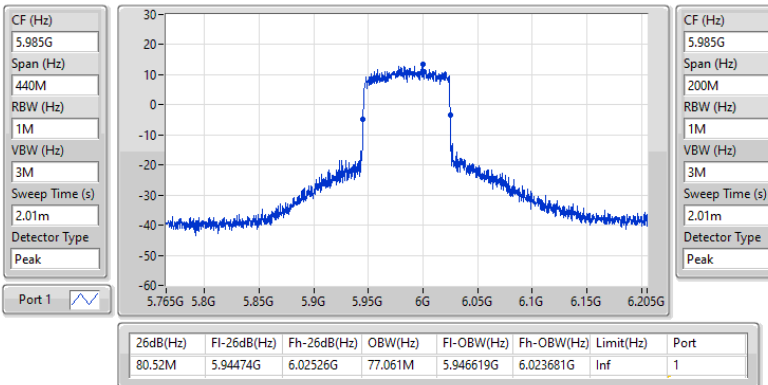

6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6845MHz

04/09/2023

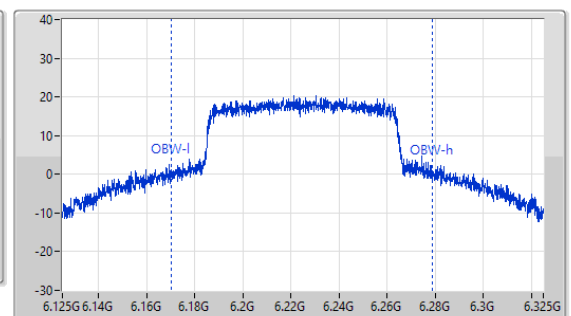
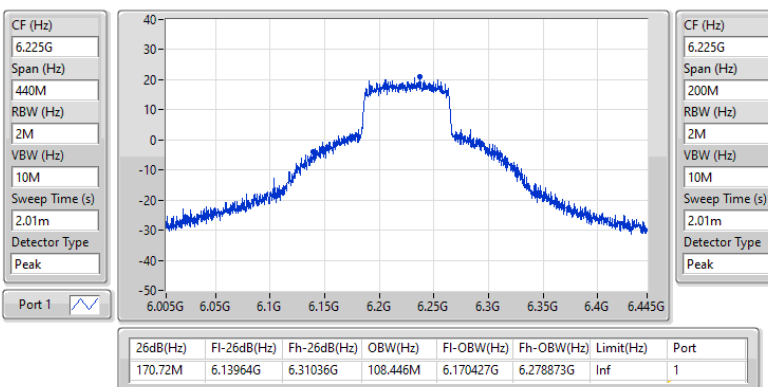


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5985MHz

04/09/2023

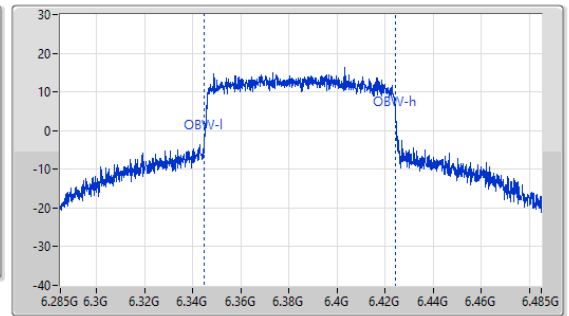
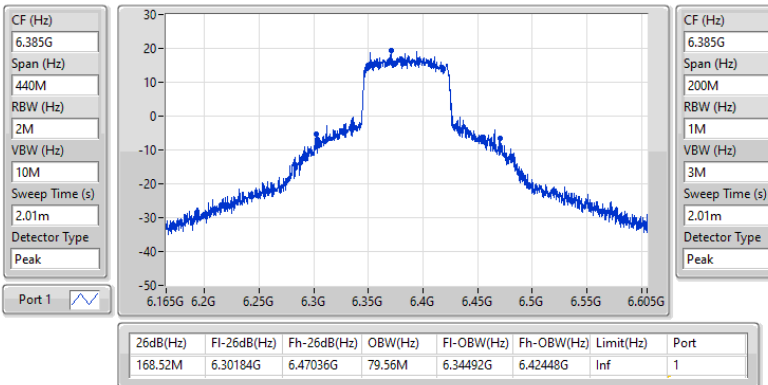

5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6225MHz

04/09/2023

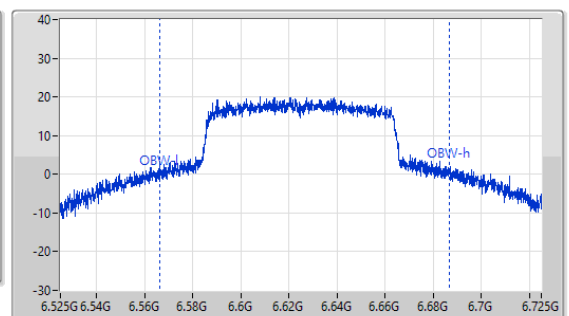
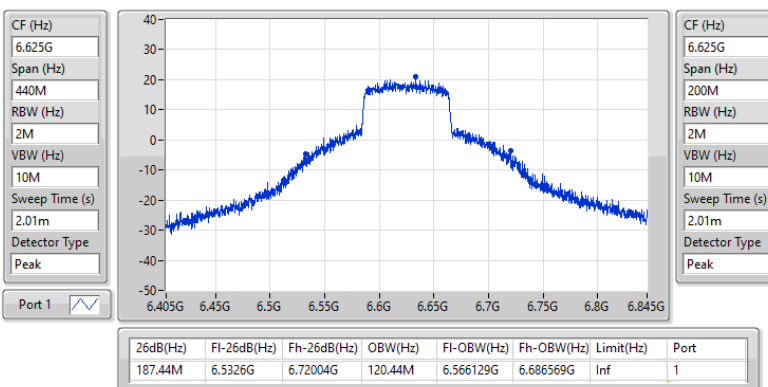


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6385MHz

04/09/2023

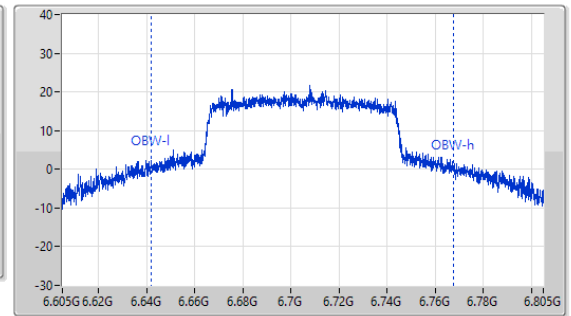
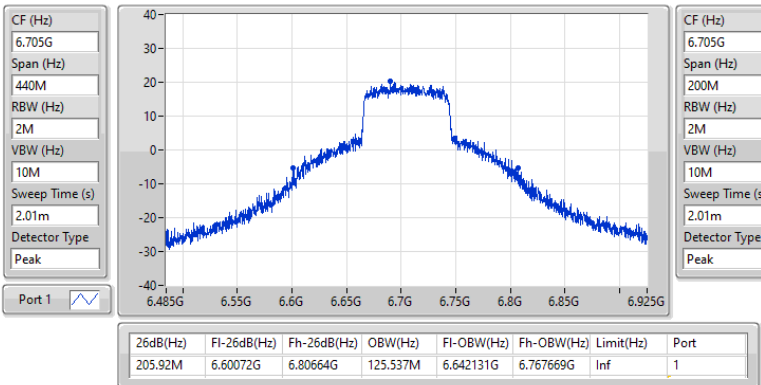

6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6625MHz

04/09/2023

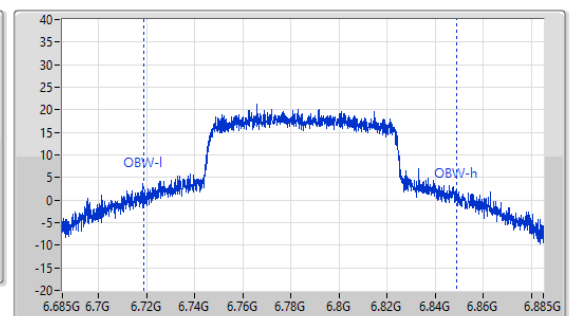
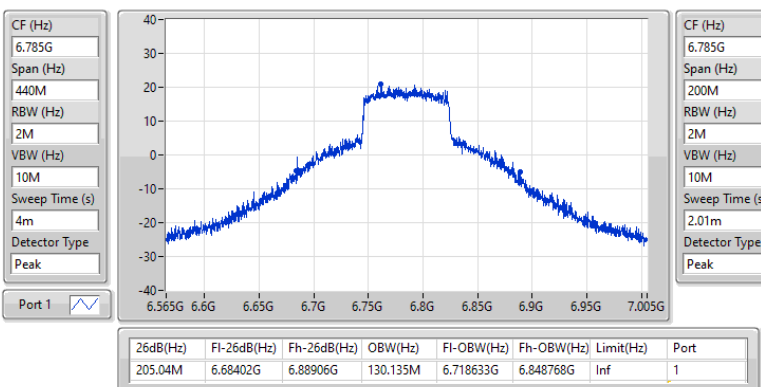


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6705MHz

04/09/2023

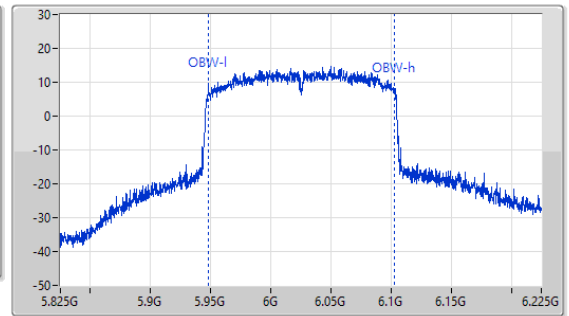
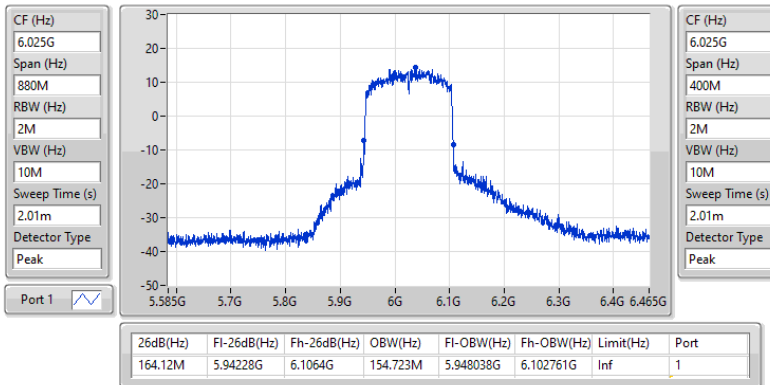

6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6785MHz

04/09/2023

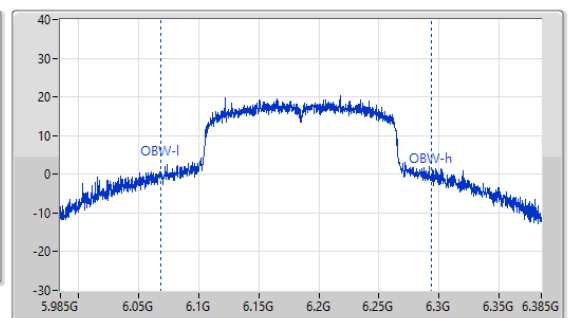
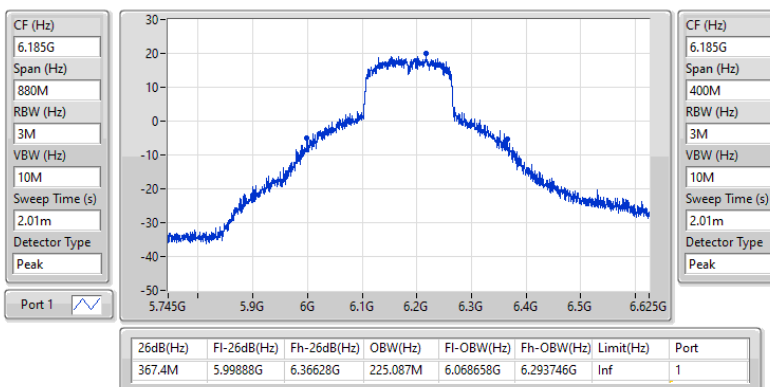


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6025MHz

04/09/2023

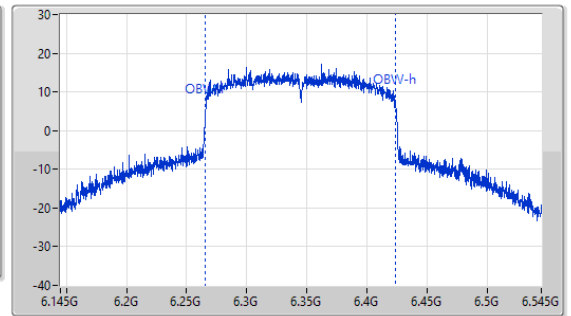
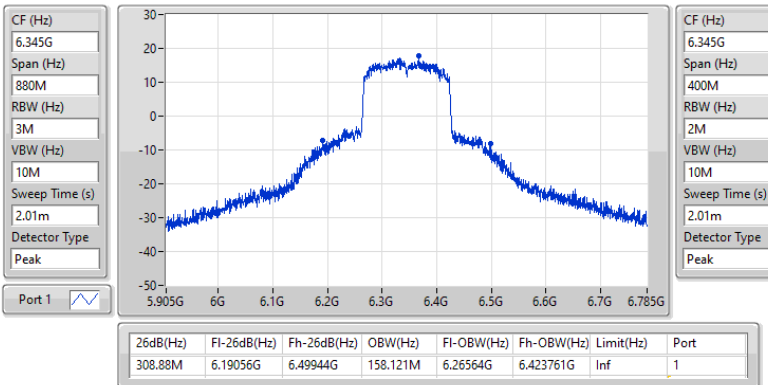

5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6185MHz

04/09/2023

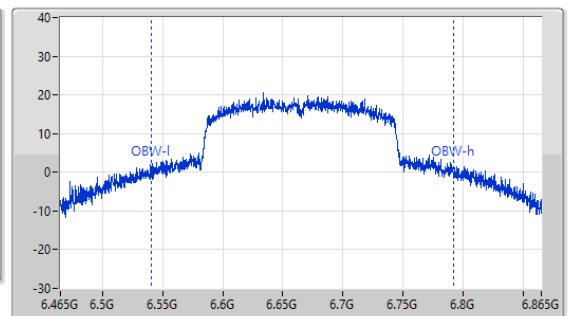
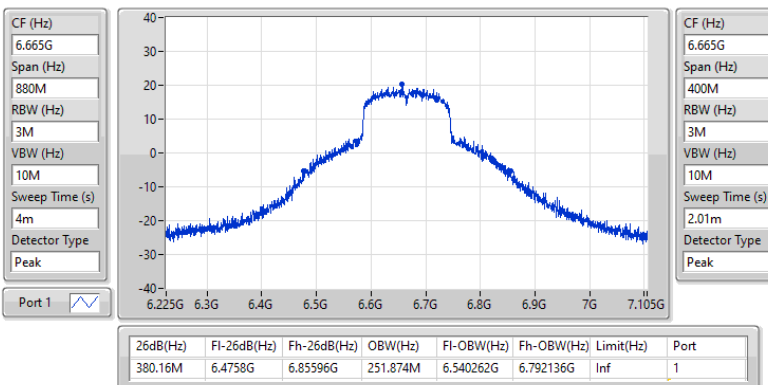


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6345MHz

04/09/2023

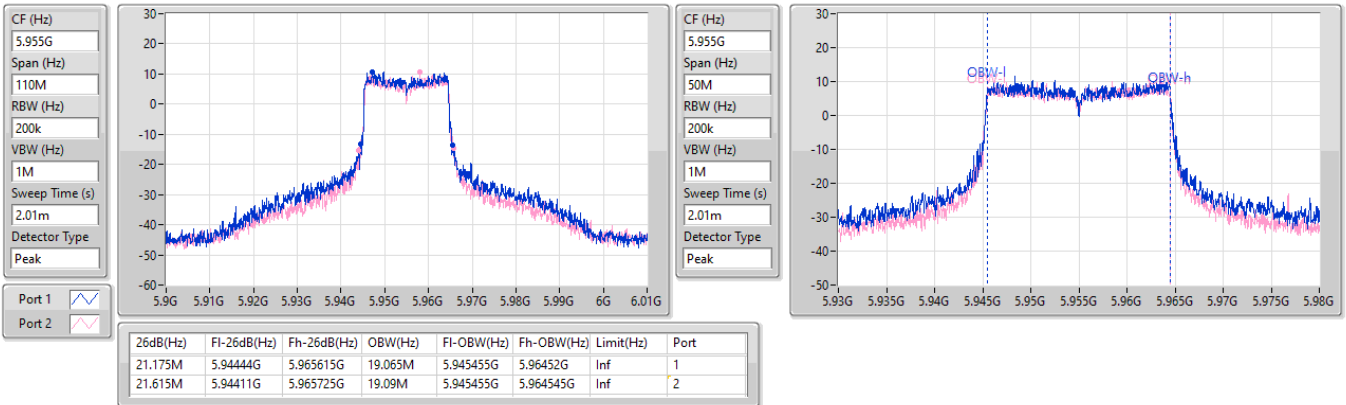

6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6665MHz

04/09/2023

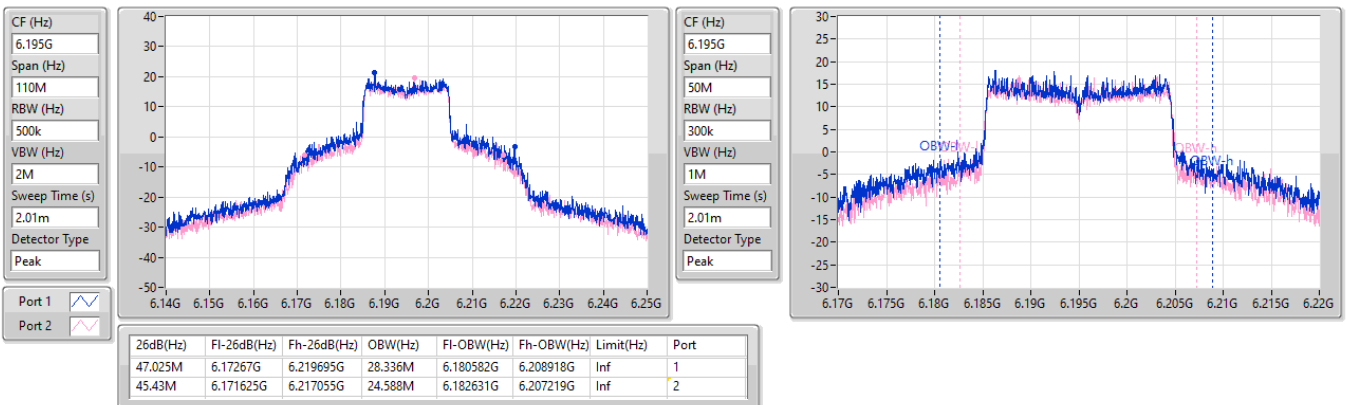


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5955MHz

04/09/2023


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
6195MHz

04/09/2023

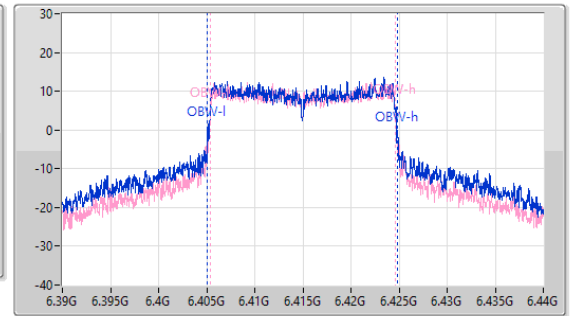
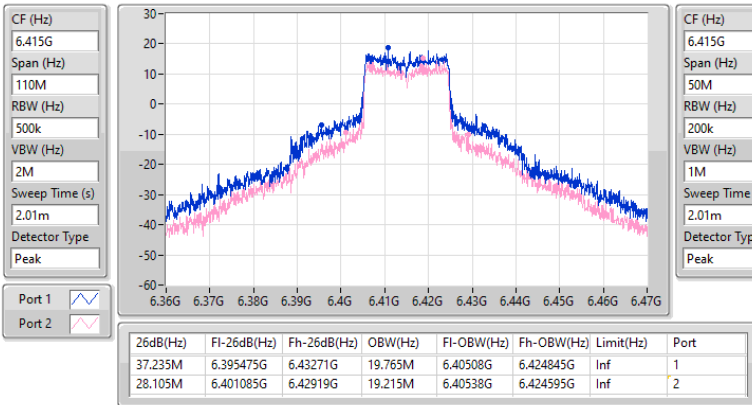


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6415MHz

04/09/2023

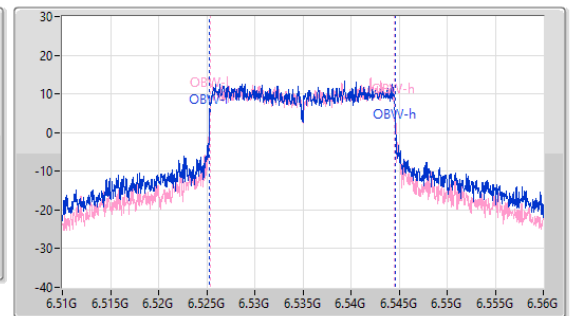
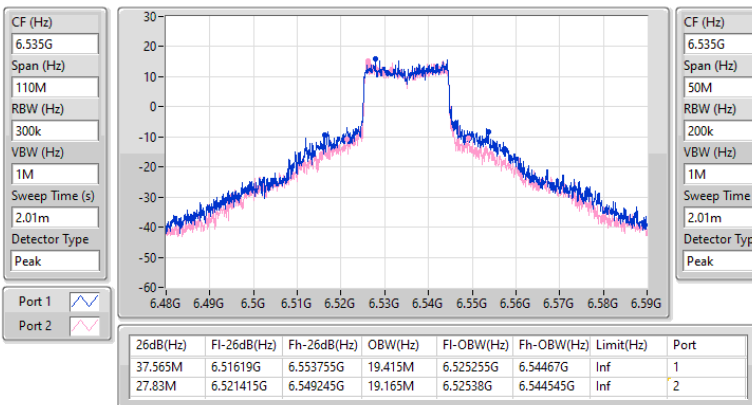


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

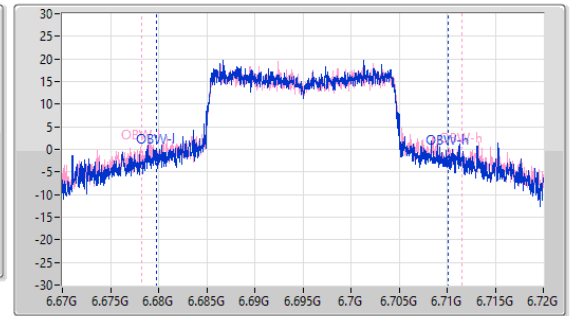
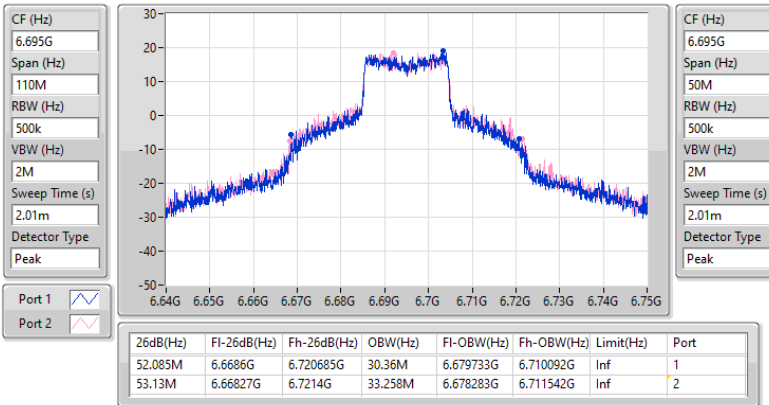
6535MHz

04/09/2023

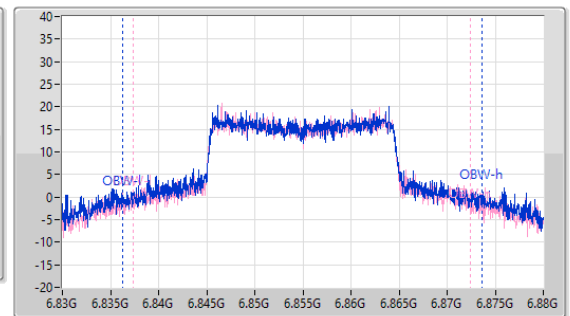
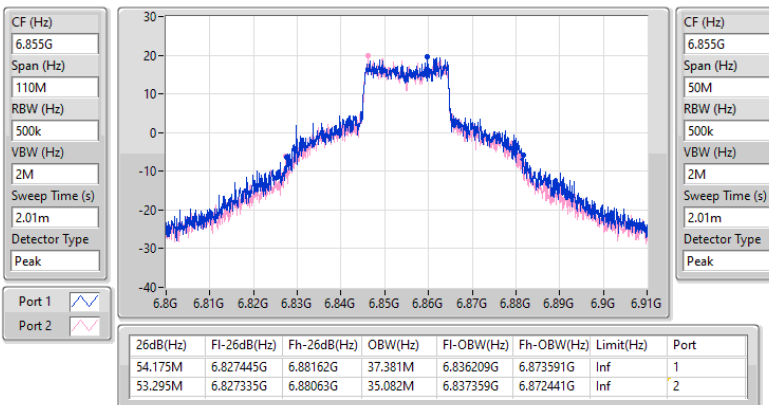


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
6695MHz

04/09/2023

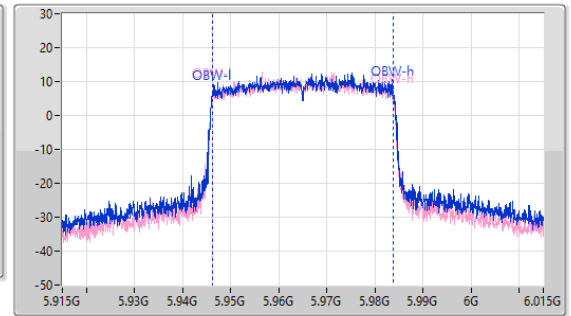
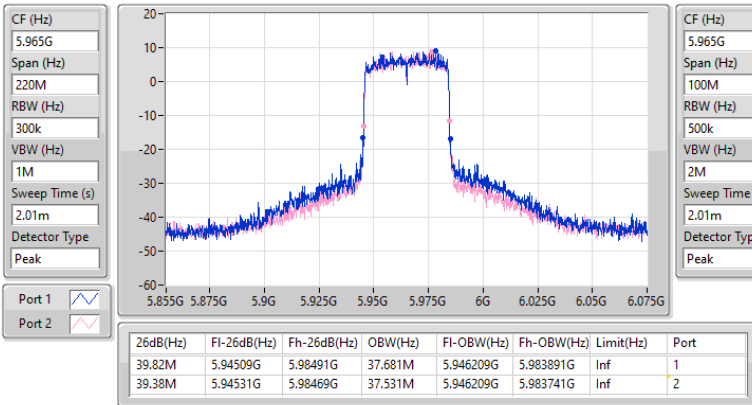

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
6855MHz

04/09/2023

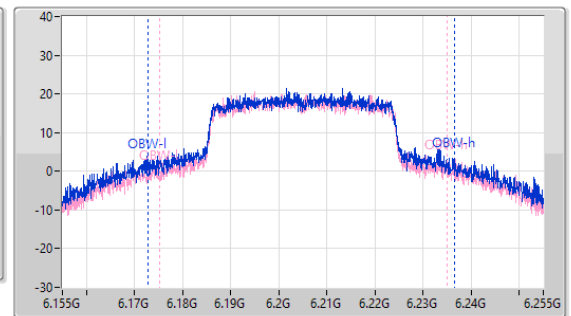
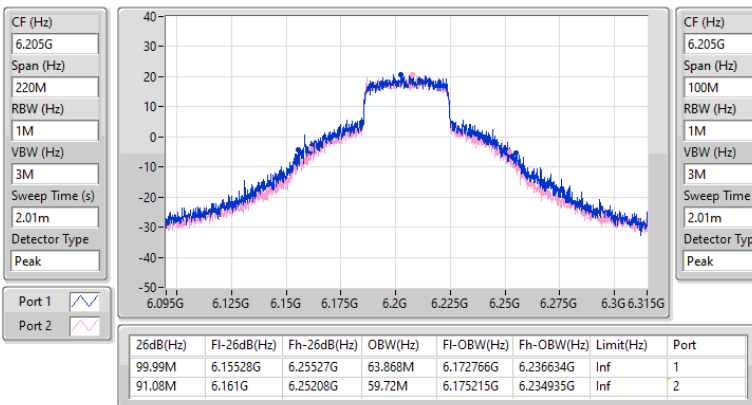


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5965MHz

04/09/2023

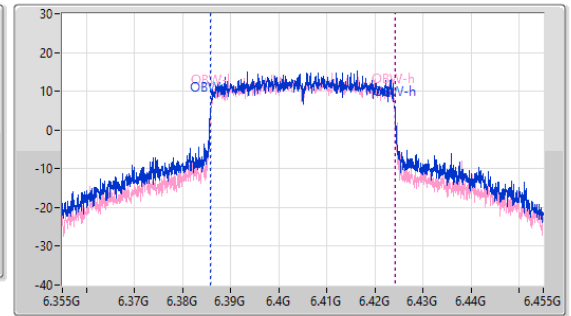
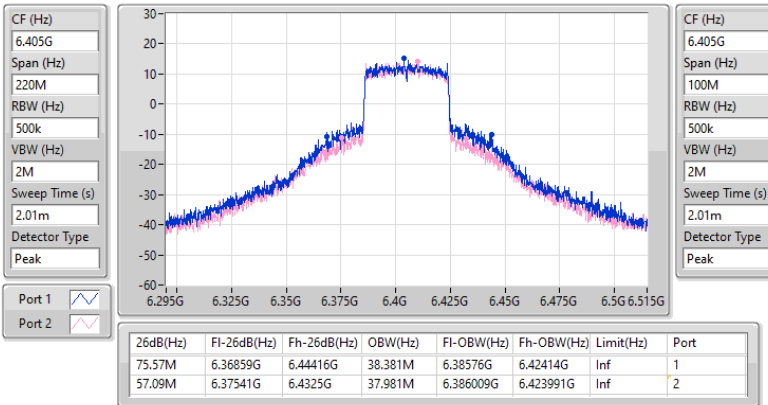

5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
6205MHz

04/09/2023

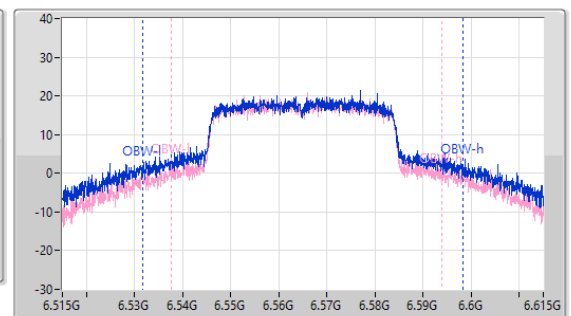
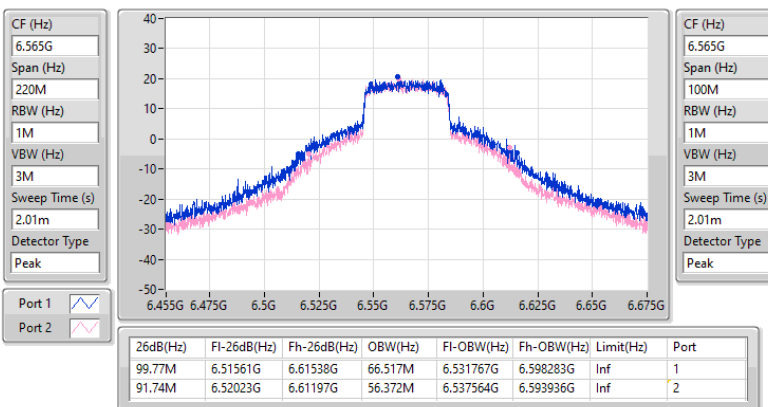


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
6405MHz

04/09/2023

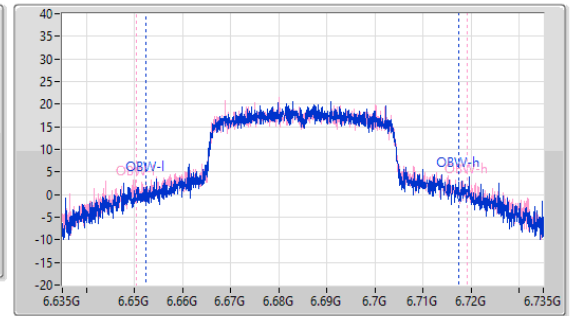
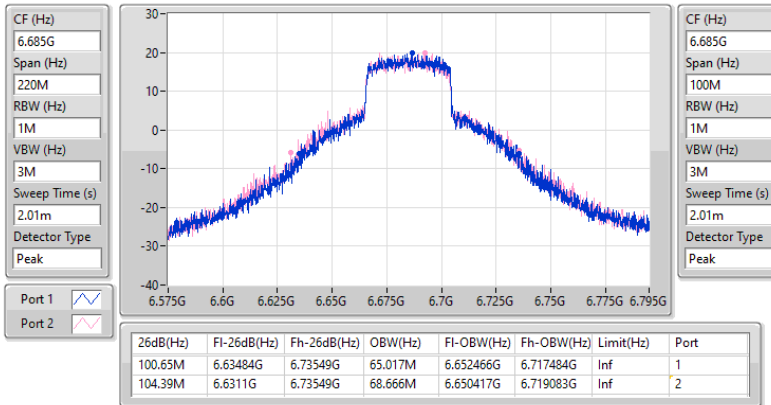

6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
6565MHz

04/09/2023

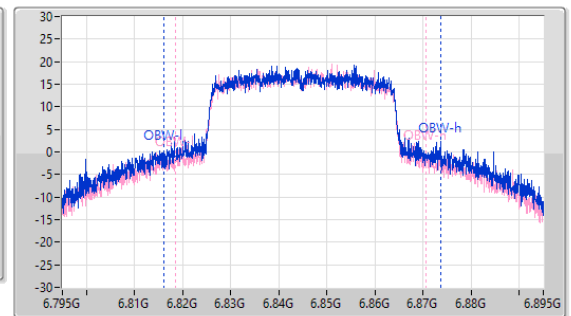
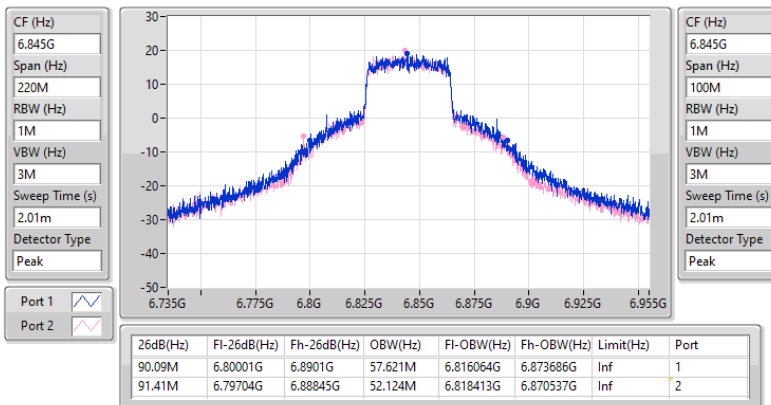


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
6685MHz

04/09/2023


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
6845MHz

04/09/2023

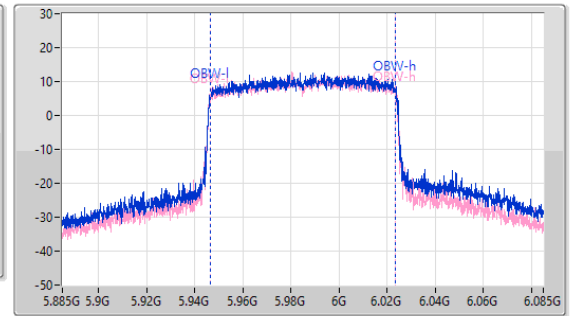
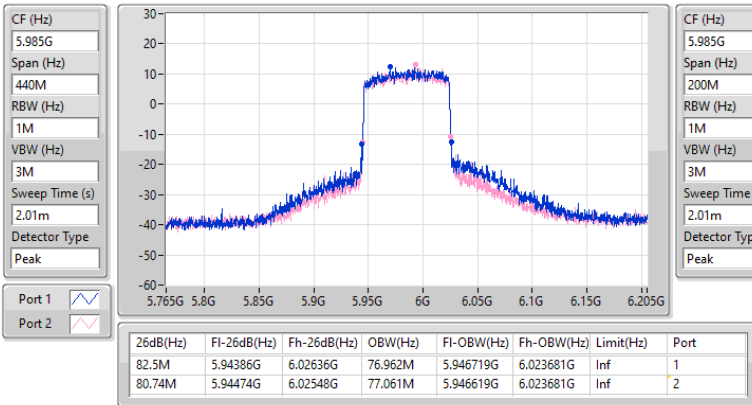


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5985MHz

04/09/2023

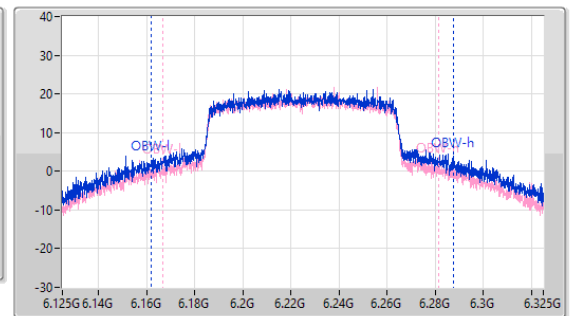
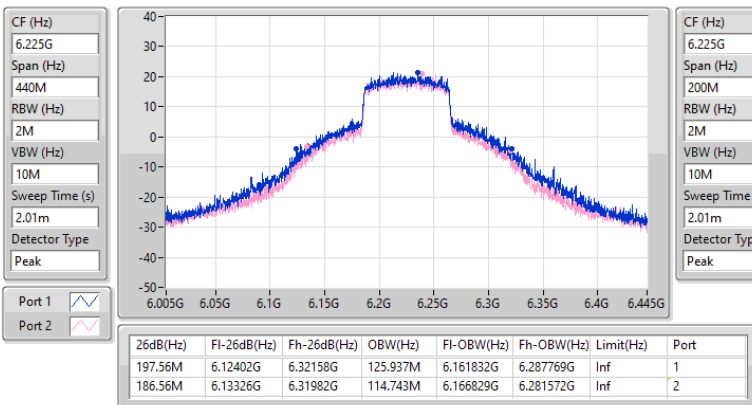


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

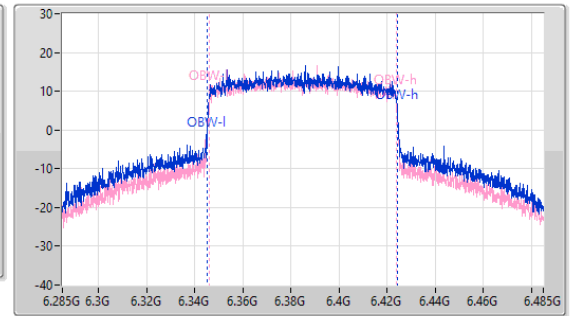
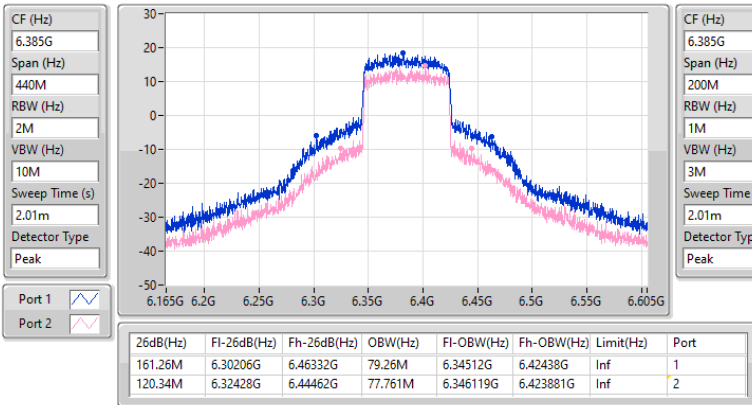
6225MHz

04/09/2023

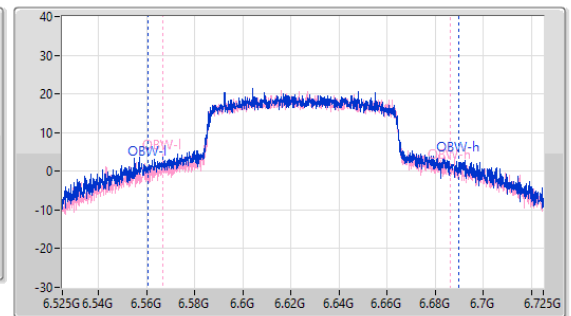
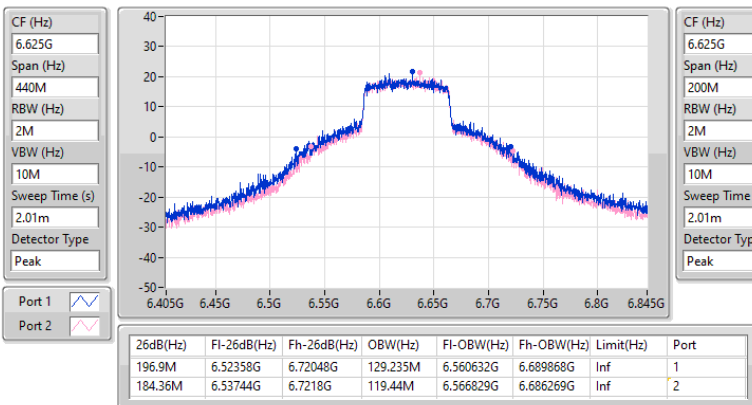


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
6385MHz

04/09/2023

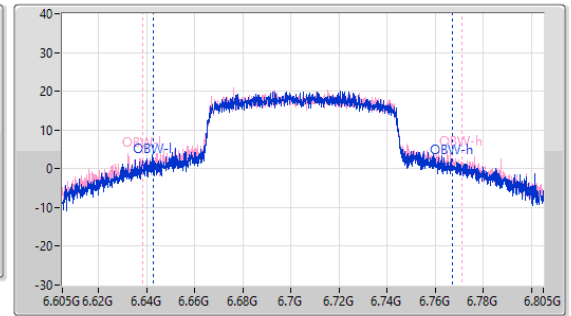
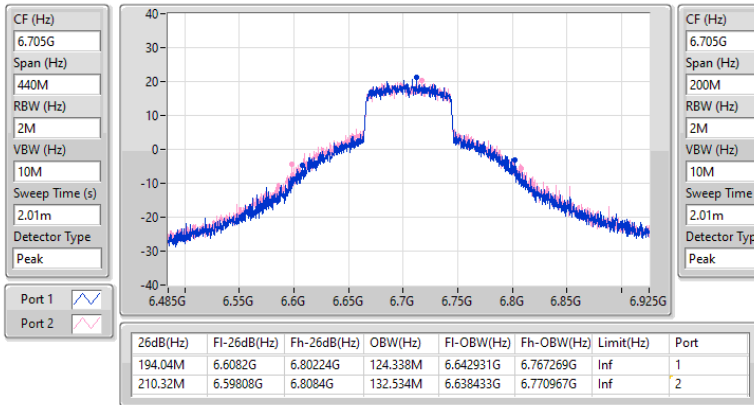

6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
6625MHz

04/09/2023

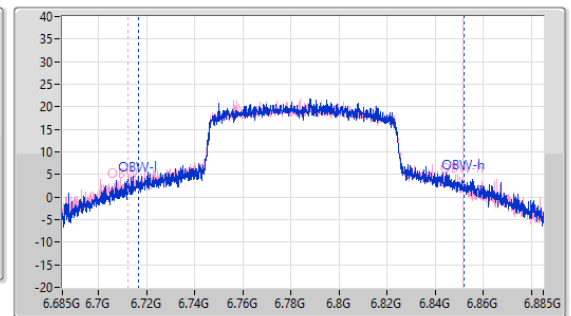
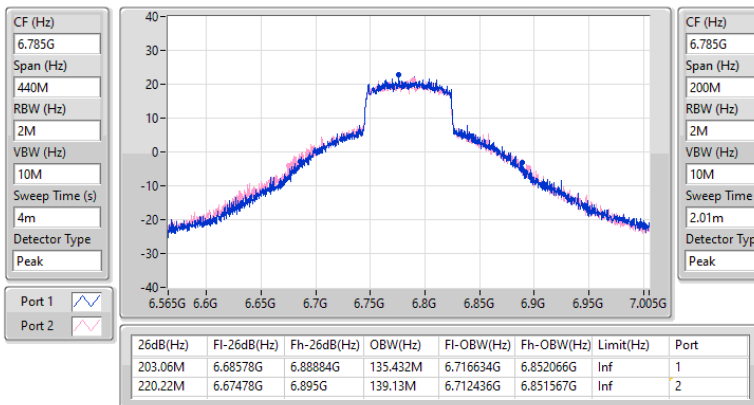


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
6705MHz

04/09/2023

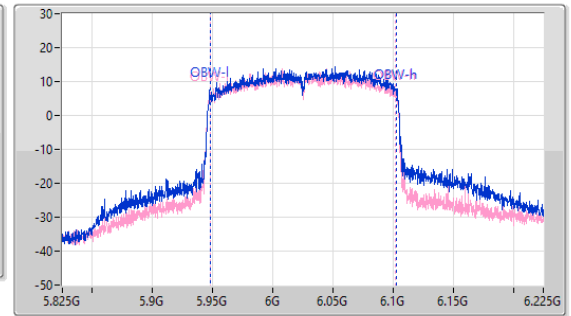
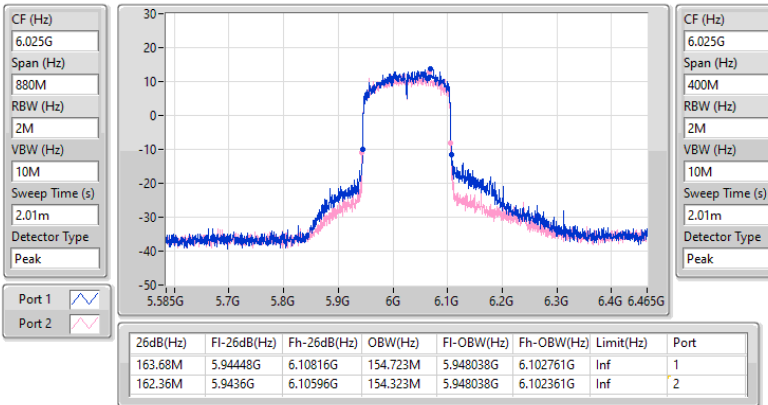

6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
6785MHz

05/09/2023

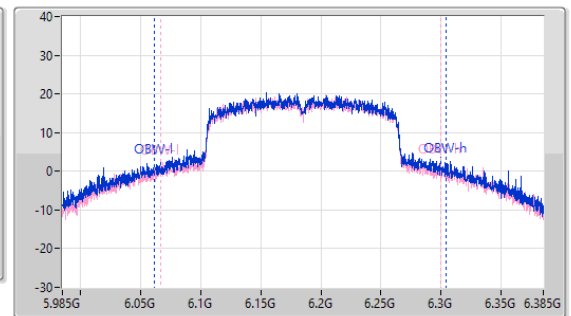
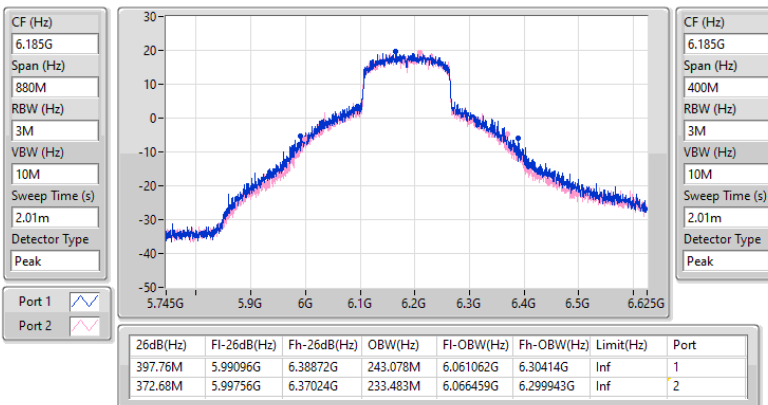


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
EBW
6025MHz

04/09/2023

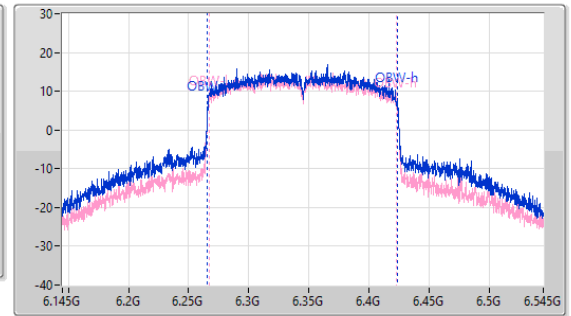
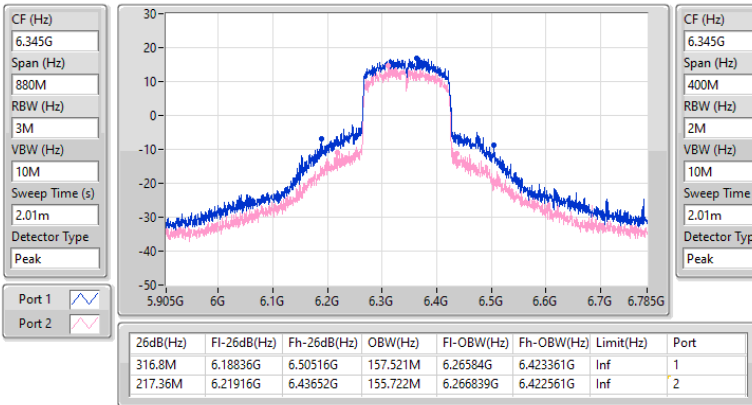

5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
EBW
6185MHz

04/09/2023

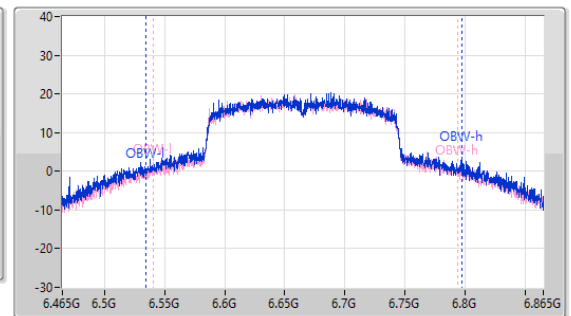
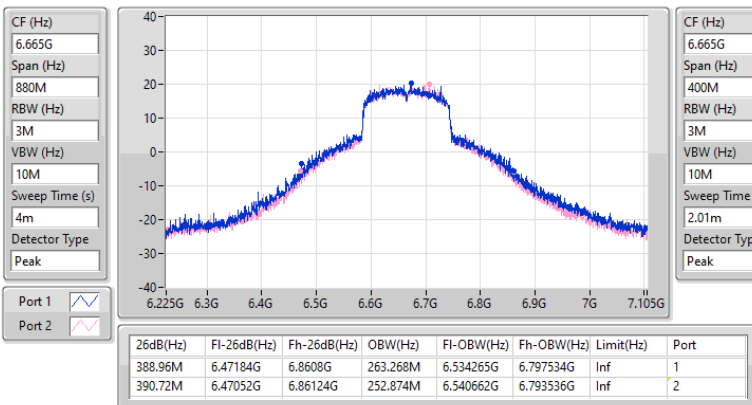


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
EBW
6345MHz

04/09/2023

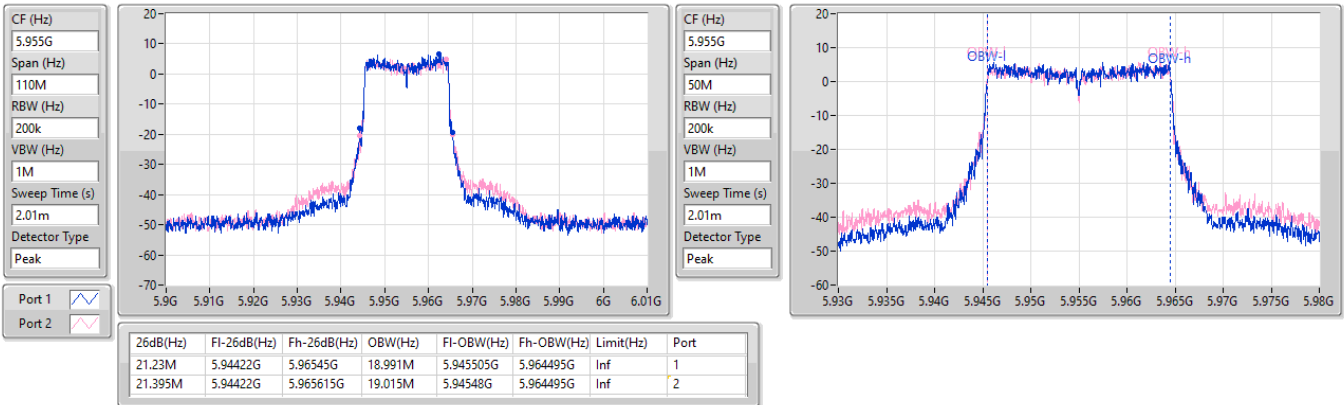

6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
EBW
6665MHz

04/09/2023

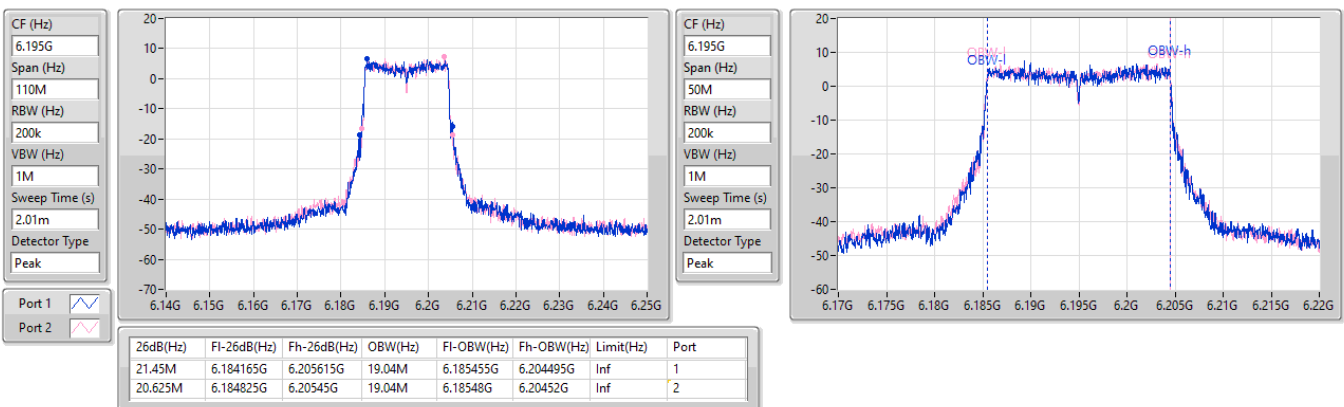


5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX
EBW
5955MHz

05/09/2023


5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX
EBW
6195MHz

05/09/2023

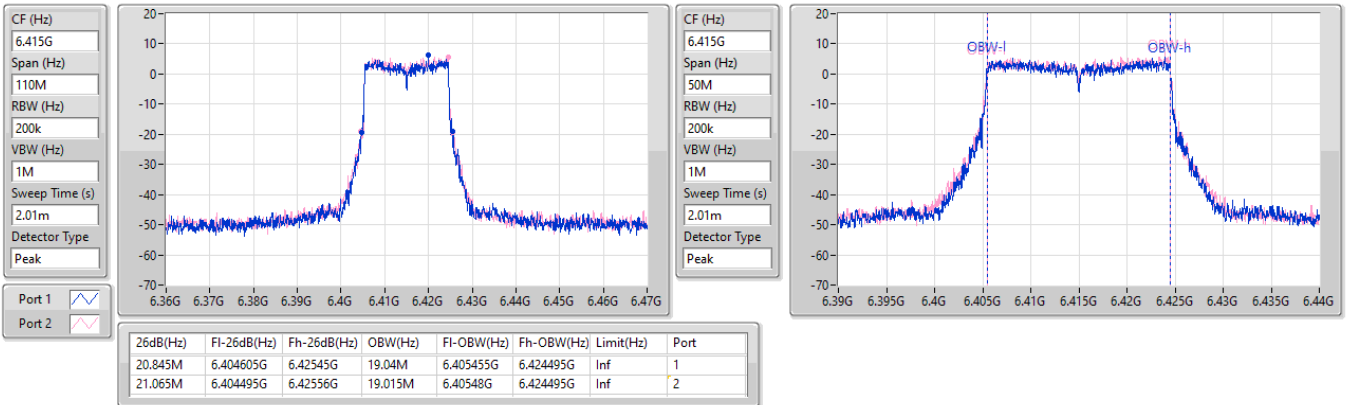


5.925-6.425GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX

EBW

6415MHz

05/09/2023

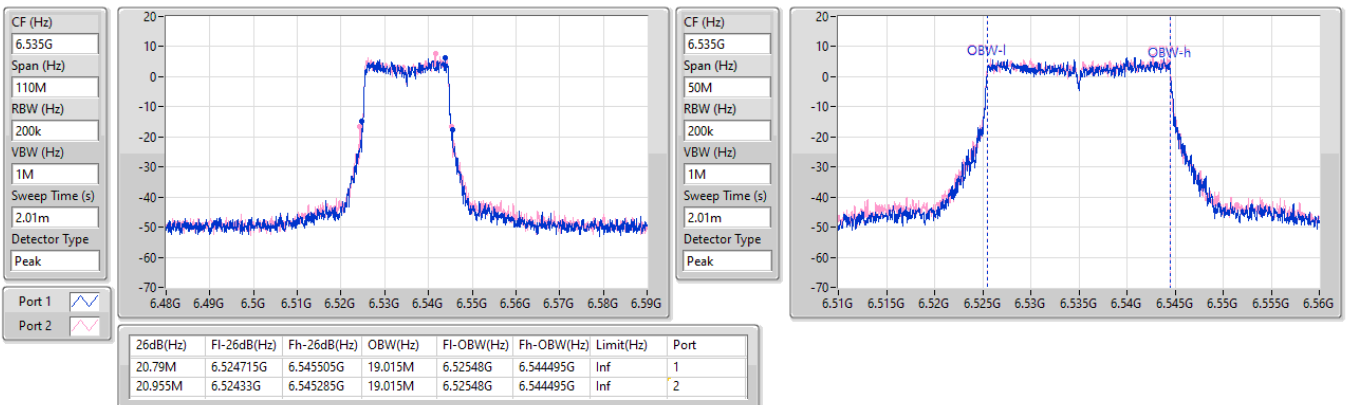


6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX

EBW

6535MHz

05/09/2023

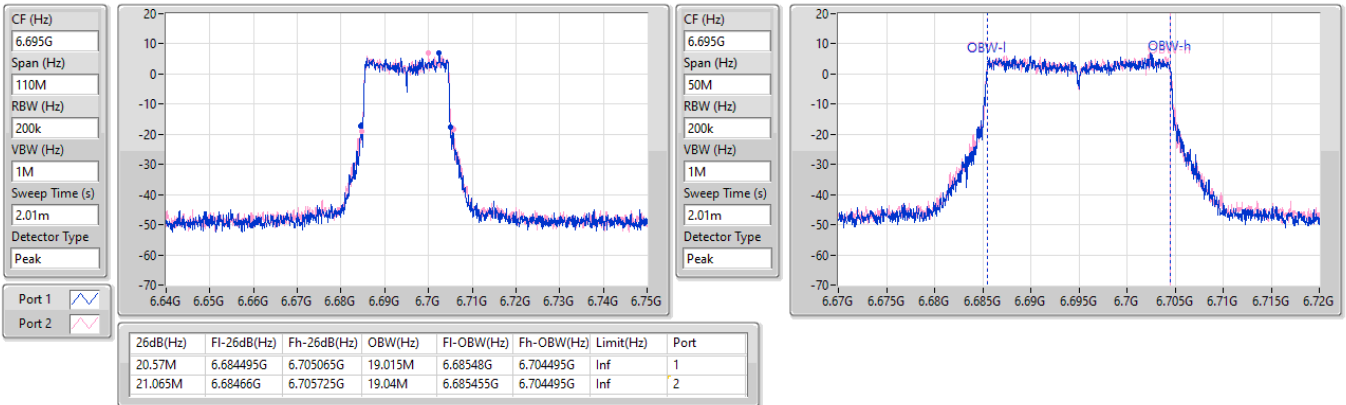


6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX

EBW

6695MHz

05/09/2023

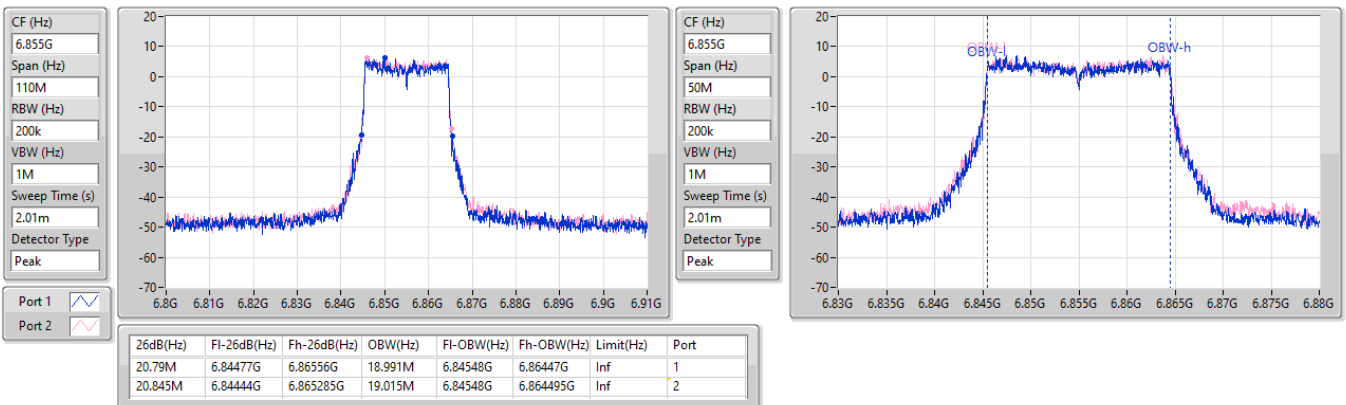


6.525-6.875GHz_802.11ax HEW20-BF_Nss1,(MCS3)_2TX

EBW

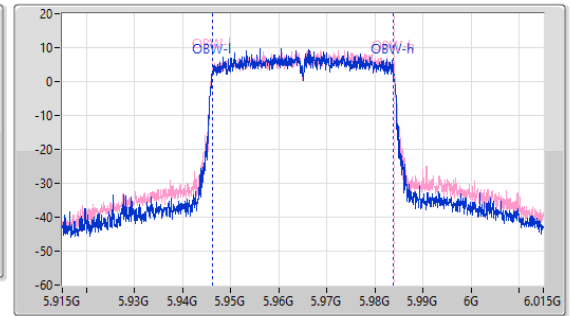
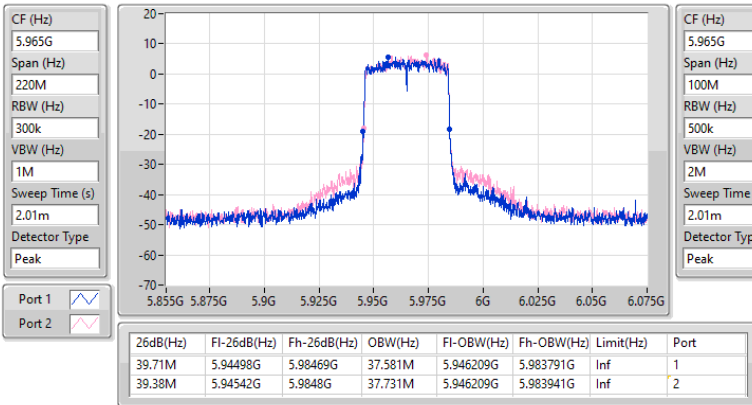
6855MHz

05/09/2023

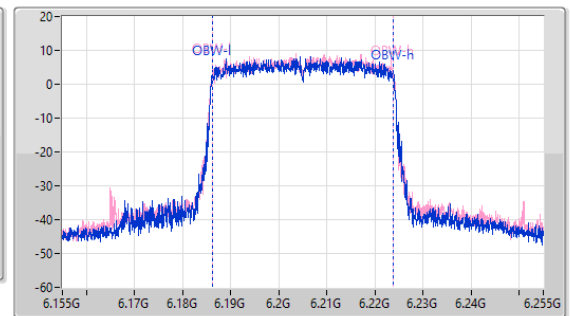
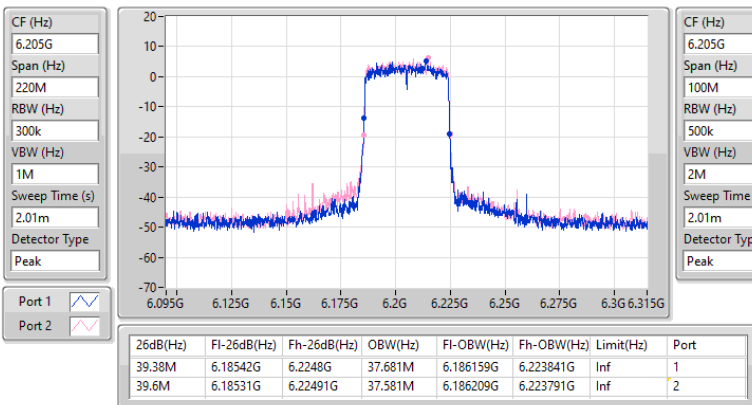


5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
5965MHz

05/09/2023

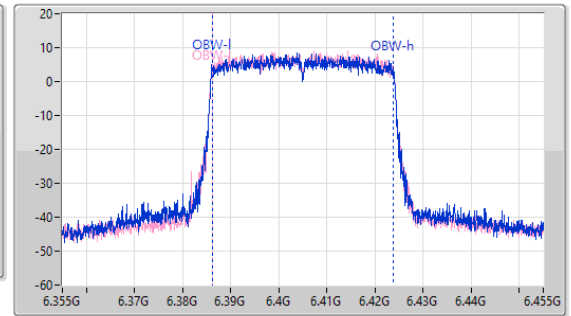
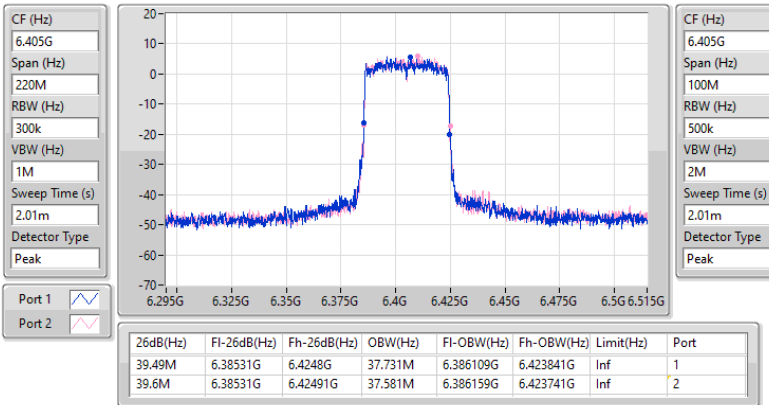

5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
6205MHz

05/09/2023

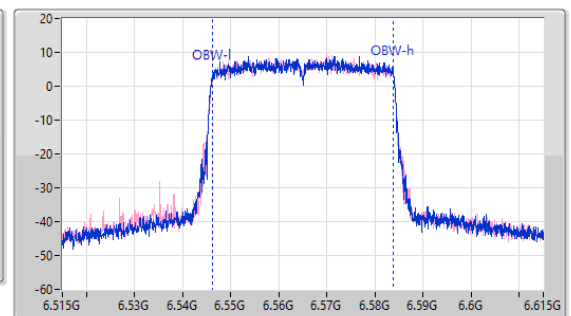
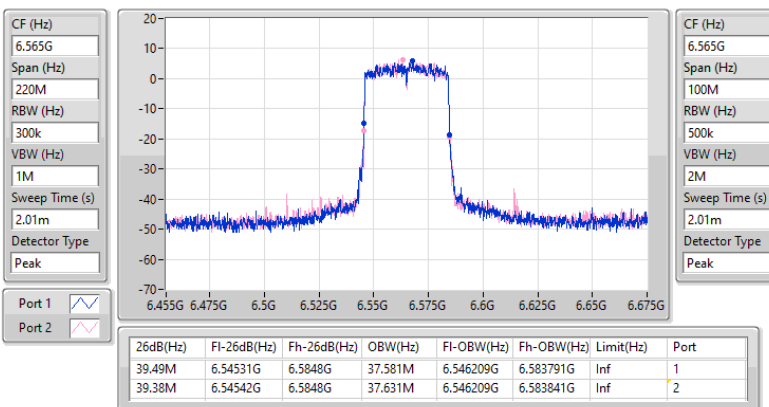


5.925-6.425GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
6405MHz

05/09/2023

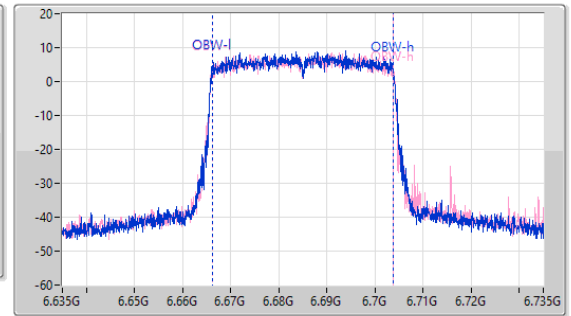
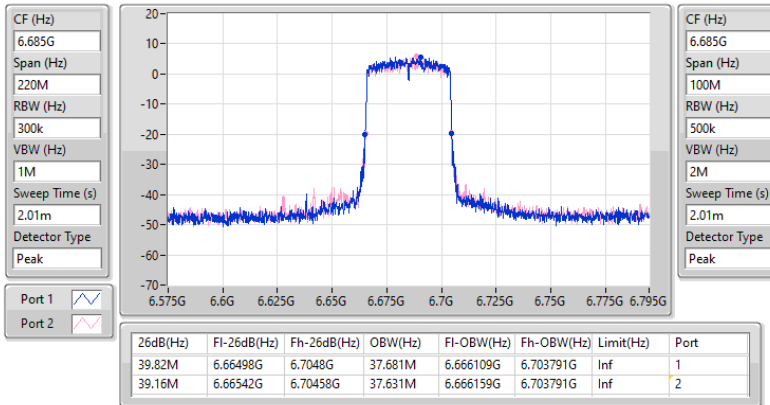

6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
6565MHz

05/09/2023

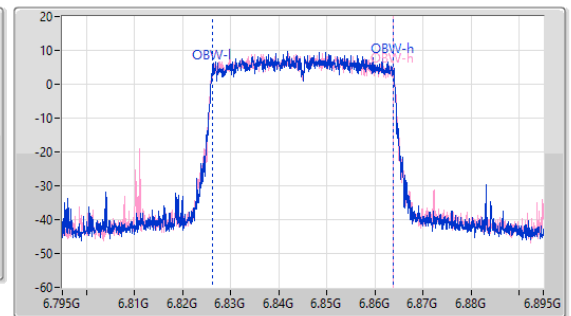
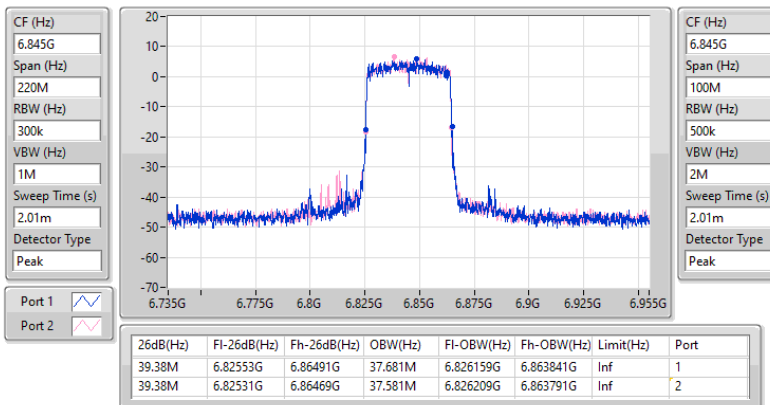


6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
6685MHz

05/09/2023

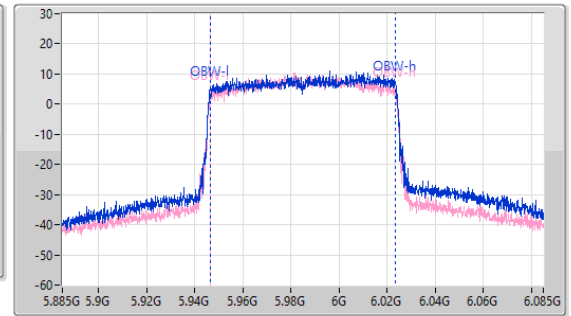
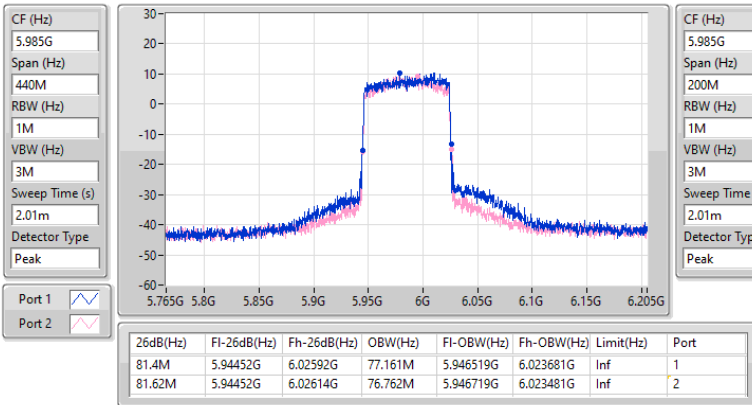

6.525-6.875GHz_802.11ax HEW40-BF_Nss1,(MCS3)_2TX
EBW
6845MHz

05/09/2023

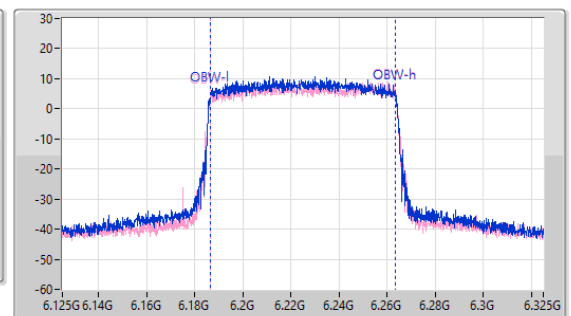
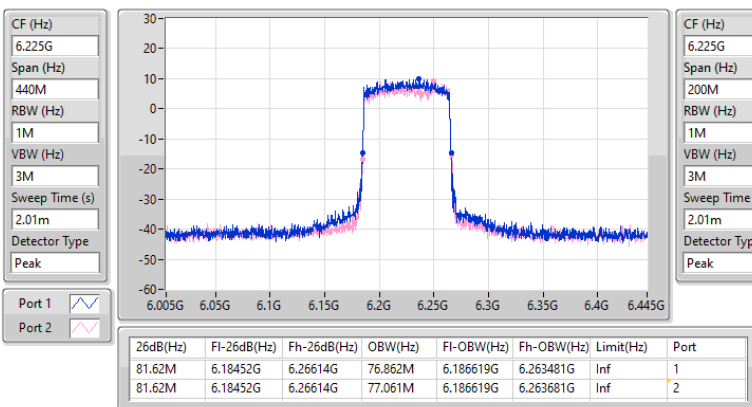


5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
5985MHz

05/09/2023

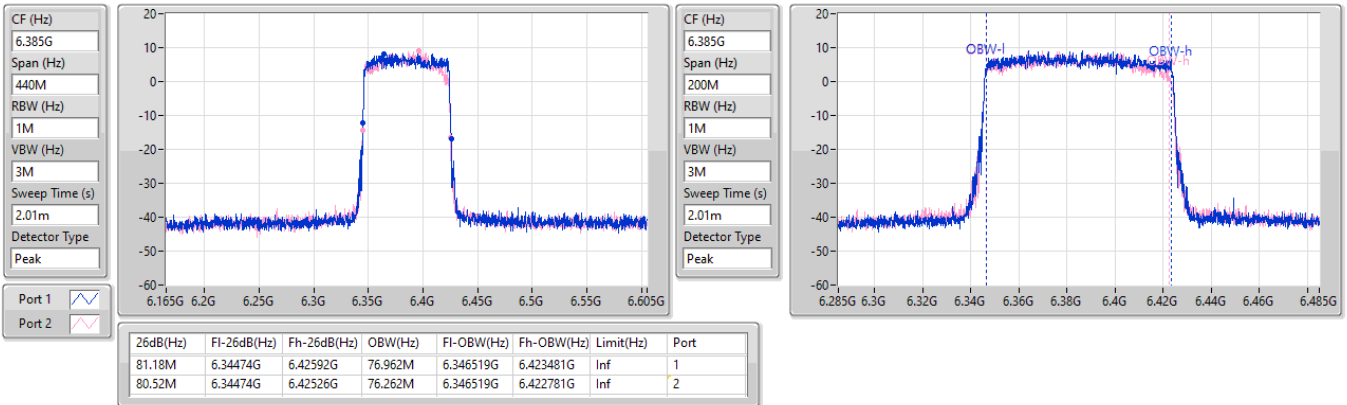

5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
6225MHz

05/09/2023

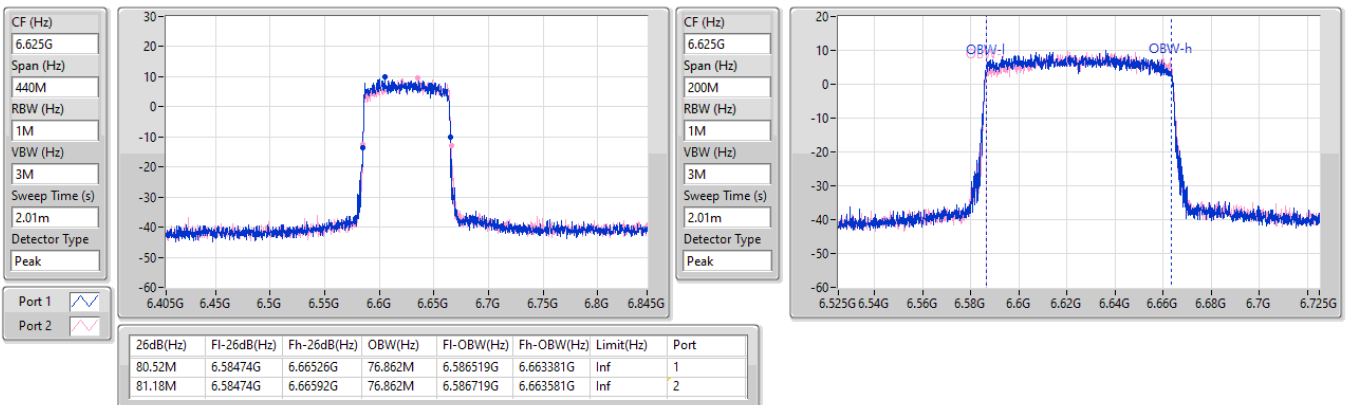


5.925-6.425GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
6385MHz

05/09/2023

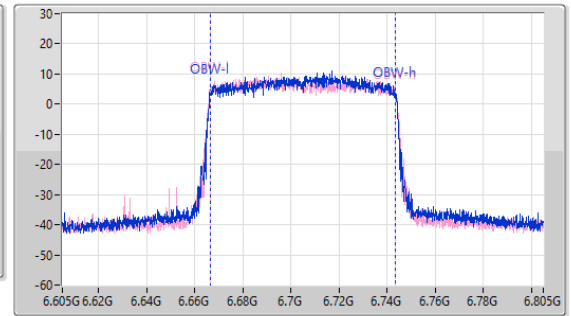
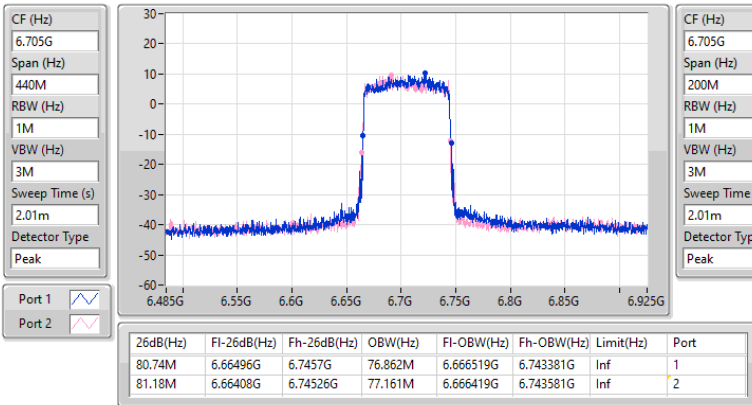

6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
6625MHz

05/09/2023

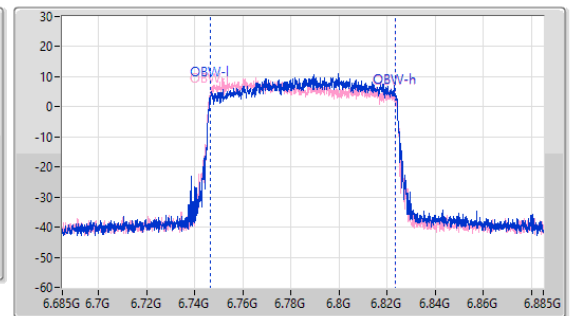
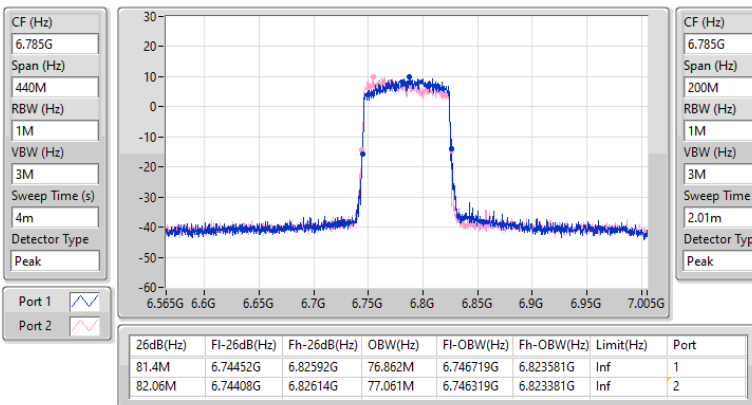


6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
6705MHz

05/09/2023

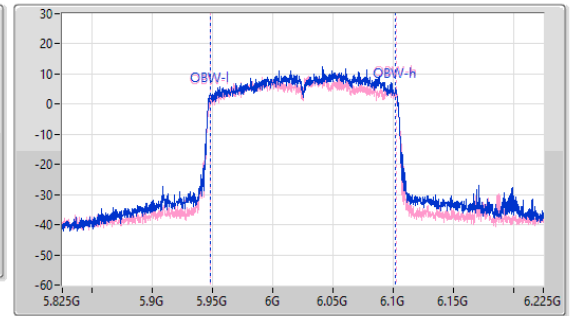
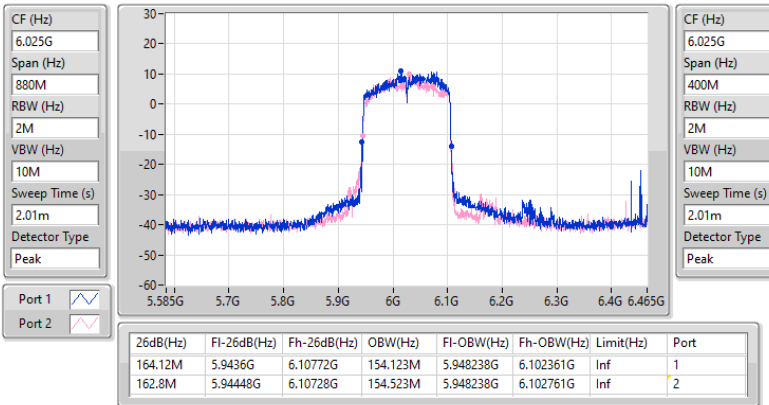

6.525-6.875GHz_802.11ax HEW80-BF_Nss1,(MCS3)_2TX
EBW
6785MHz

05/09/2023

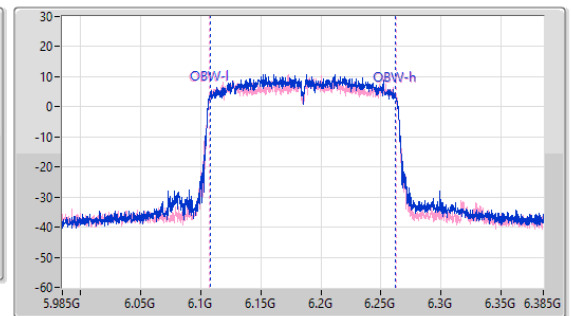
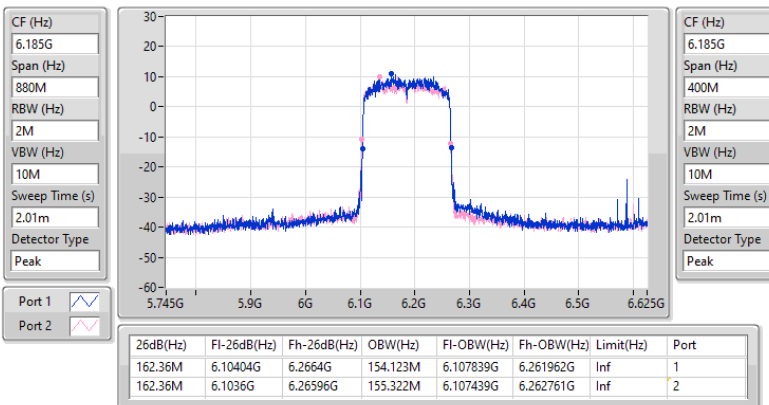


5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS3)_2TX
EBW
6025MHz

05/09/2023

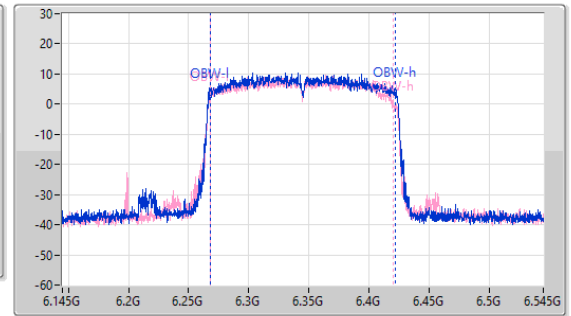
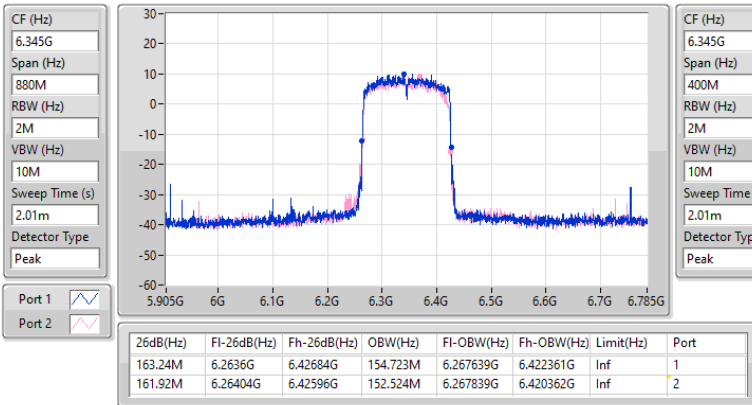

5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS3)_2TX
EBW
6185MHz

05/09/2023

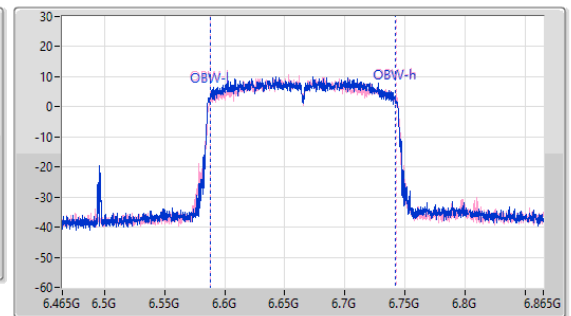
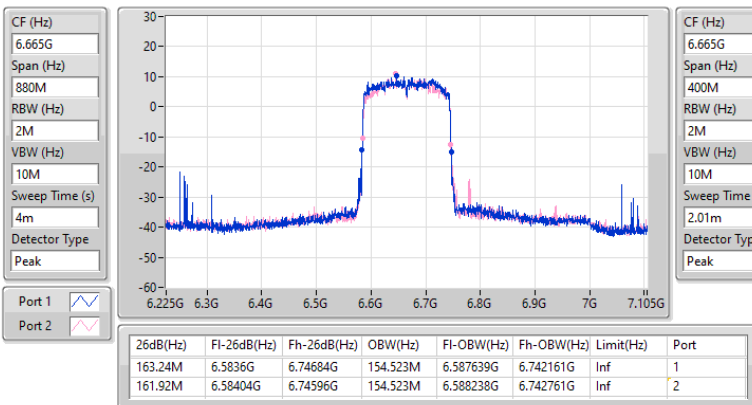


5.925-6.425GHz_802.11ax HEW160-BF_Nss1,(MCS3)_2TX
EBW
6345MHz

05/09/2023


6.525-6.875GHz_802.11ax HEW160-BF_Nss1,(MCS3)_2TX
EBW
6665MHz

05/09/2023



**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_Nss1,(MCS0)_1TX	72.49M	41.304M	41M3D1D	38.445M	19.415M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	75.735M	40.93M	40M9D1D	36.905M	19.54M

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)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	51.425M	34.058M
6195MHz	Pass	Inf	72.49M	41.304M
6415MHz	Pass	Inf	38.445M	19.415M
6535MHz	Pass	Inf	36.905M	19.54M
6695MHz	Pass	Inf	75.735M	40.93M
6855MHz	Pass	Inf	53.515M	35.557M

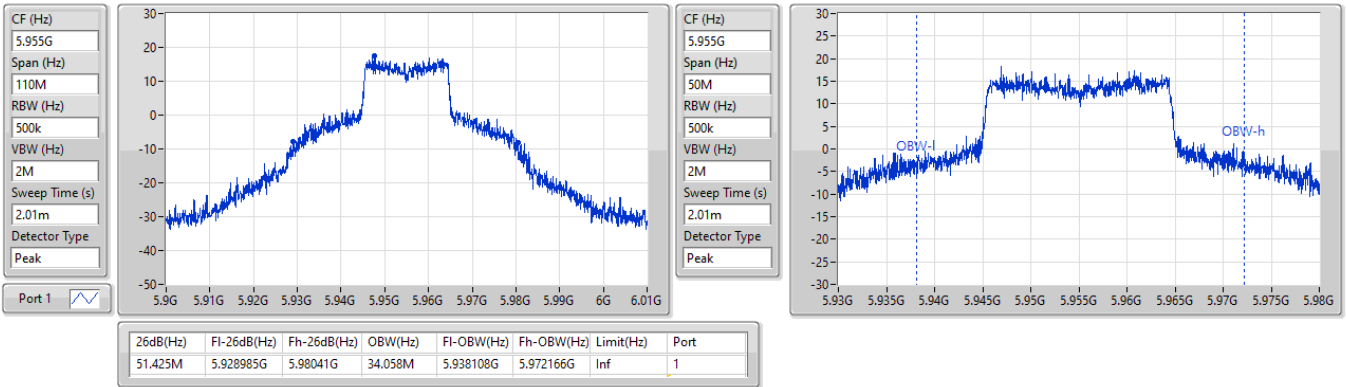
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5955MHz

04/09/2023

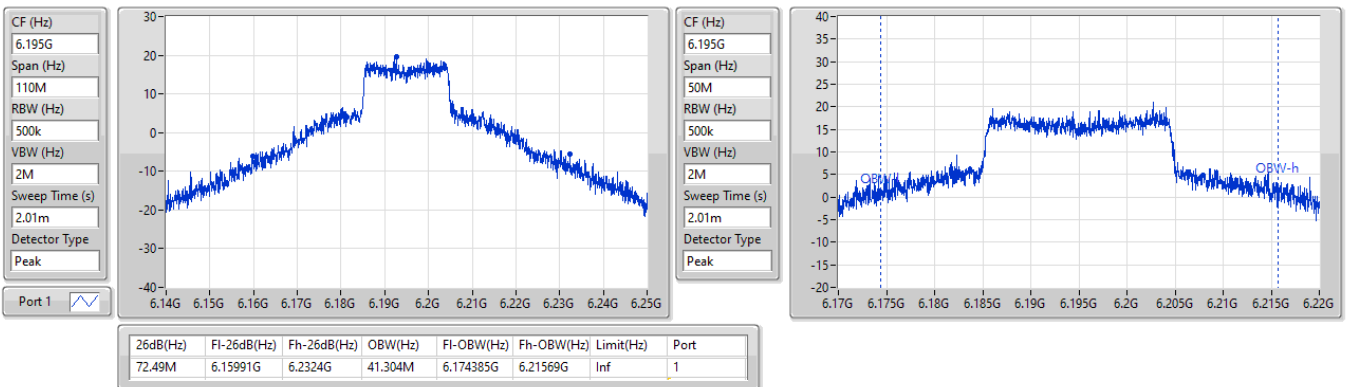


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6195MHz

04/09/2023

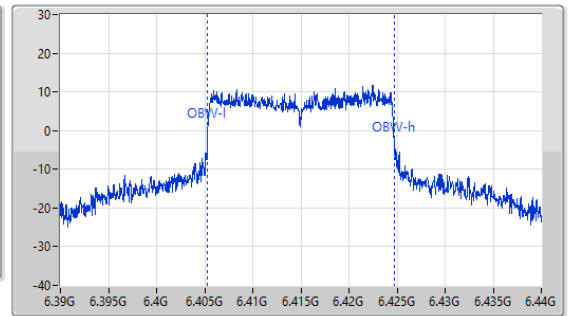
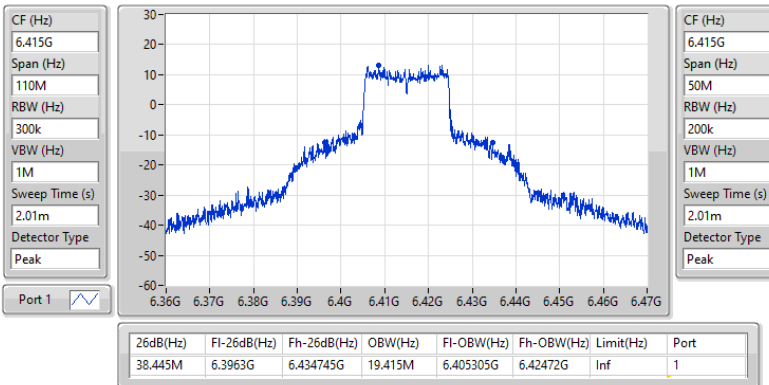


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6415MHz

04/09/2023

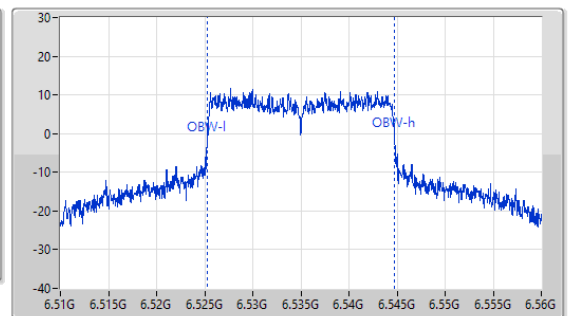
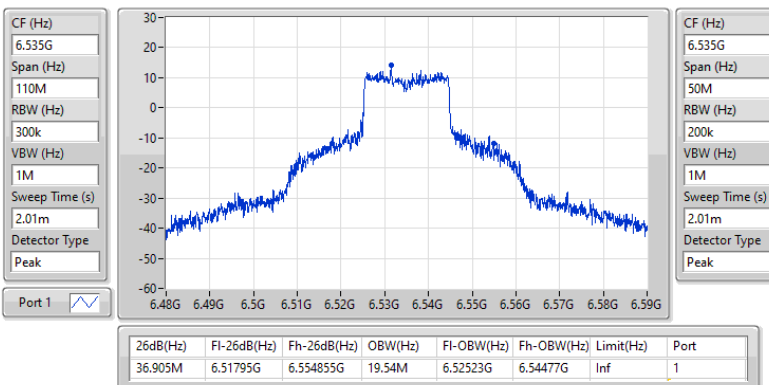


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6535MHz

04/09/2023

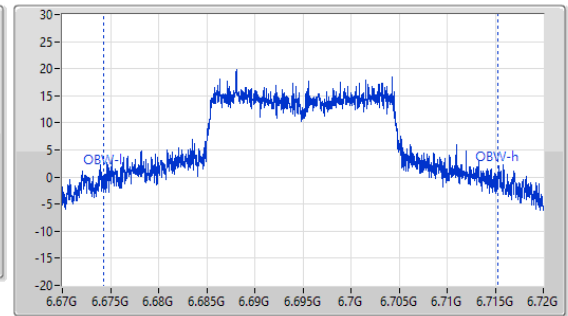
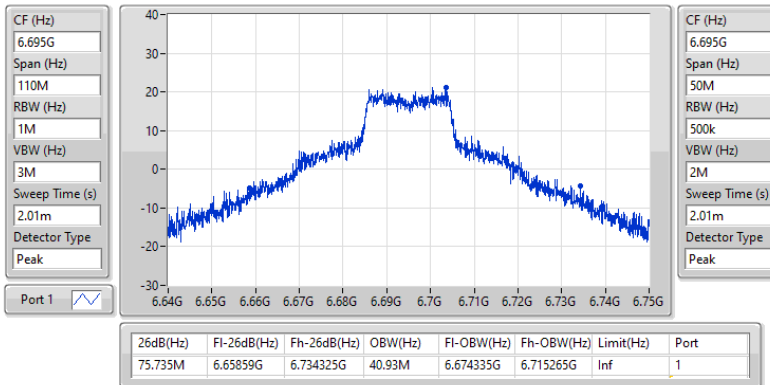


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6695MHz

04/09/2023

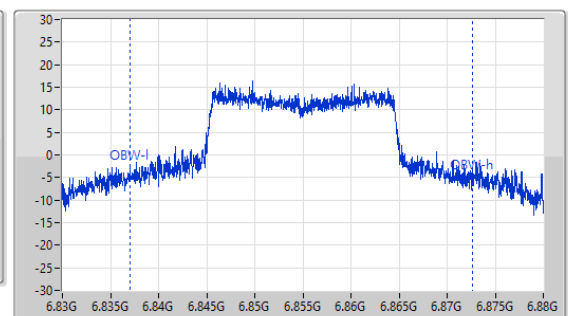
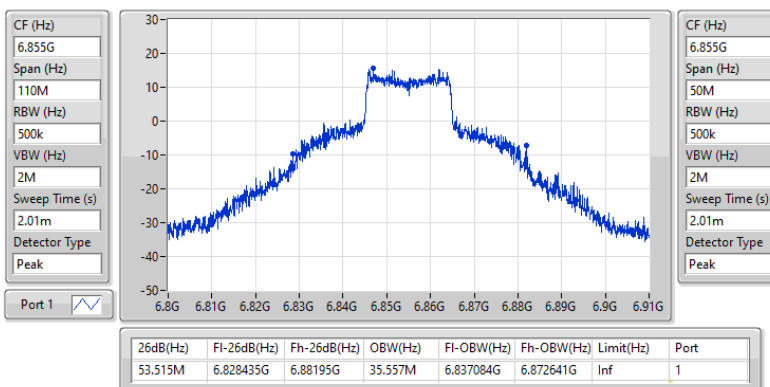


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6855MHz

04/09/2023



Summary

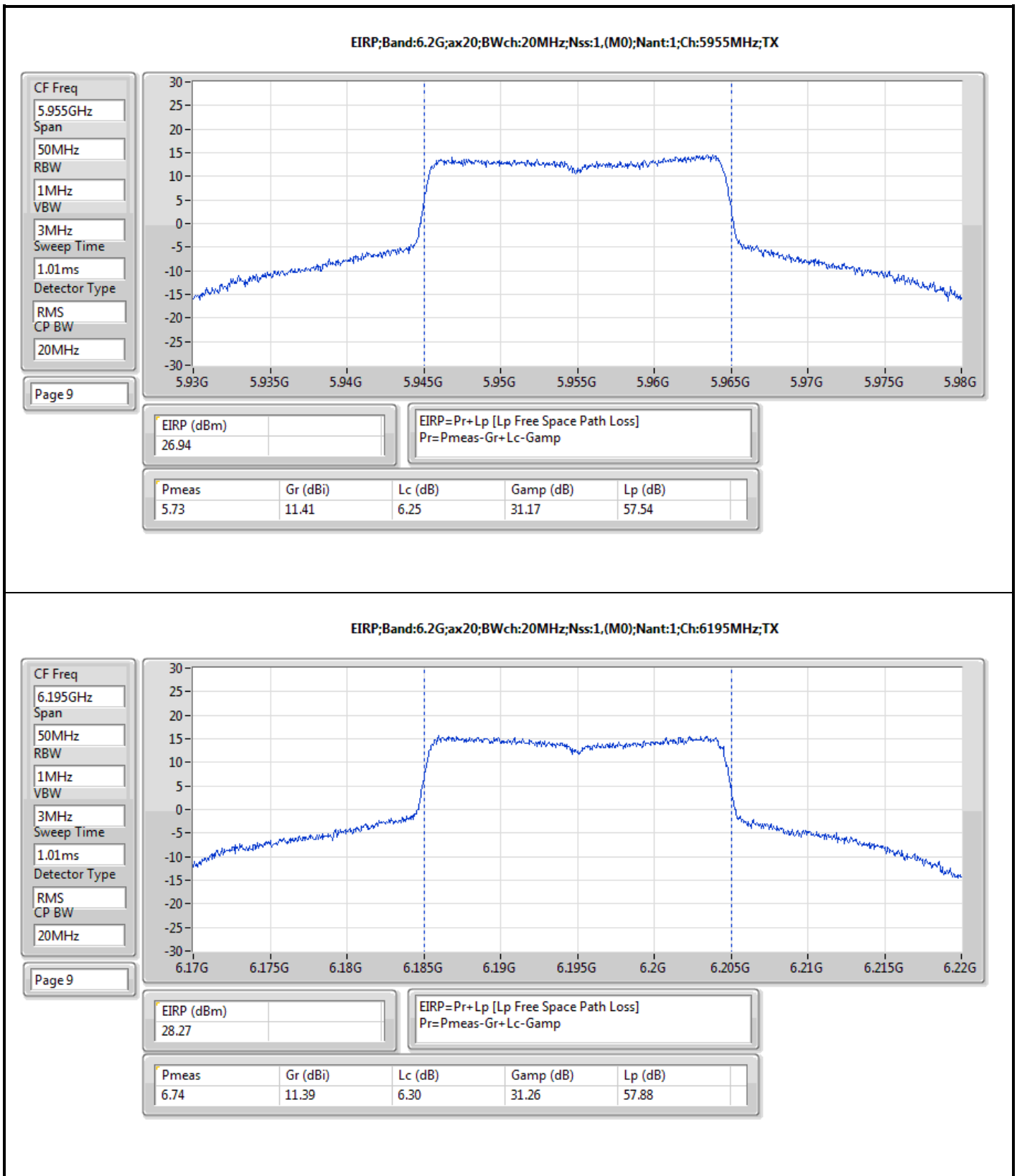
Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	28.27	0.67143
802.11ax HEW20_Nss1,(MCS0)_2TX	30.00	1.00000
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	21.80	0.15136
802.11ax HEW40_Nss1,(MCS0)_1TX	27.34	0.54200
802.11ax HEW40_Nss1,(MCS0)_2TX	30.73	1.18304
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	24.84	0.30479
802.11ax HEW80_Nss1,(MCS0)_1TX	27.86	0.61094
802.11ax HEW80_Nss1,(MCS0)_2TX	30.52	1.12720
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	25.84	0.38371
802.11ax HEW160_Nss1,(MCS0)_1TX	27.44	0.55463
802.11ax HEW160_Nss1,(MCS0)_2TX	30.71	1.17761
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	23.90	0.24547
6.525-6.875GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	26.37	0.43351
802.11ax HEW20_Nss1,(MCS0)_2TX	27.93	0.62087
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	22.27	0.16866
802.11ax HEW40_Nss1,(MCS0)_1TX	27.40	0.54954
802.11ax HEW40_Nss1,(MCS0)_2TX	28.44	0.69823
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	21.64	0.14588
802.11ax HEW80_Nss1,(MCS0)_1TX	26.16	0.41305
802.11ax HEW80_Nss1,(MCS0)_2TX	27.90	0.61660
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	21.09	0.12853
802.11ax HEW160_Nss1,(MCS0)_1TX	25.18	0.32961
802.11ax HEW160_Nss1,(MCS0)_2TX	27.62	0.57810
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	20.65	0.11614

Result

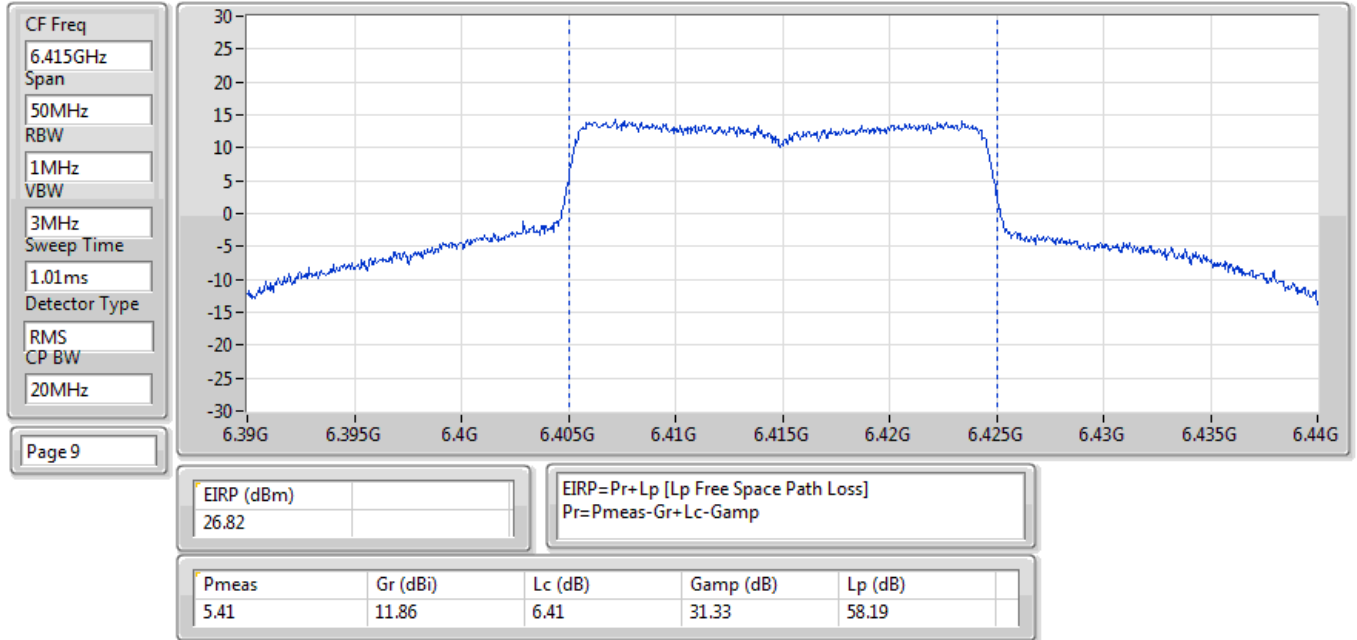
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-
5955MHz	Pass	26.94	36.00
6195MHz	Pass	28.27	36.00
6415MHz	Pass	26.82	36.00
6535MHz	Pass	26.20	36.00
6695MHz	Pass	26.37	36.00
6855MHz	Pass	25.79	36.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-
5965MHz	Pass	23.80	36.00
6205MHz	Pass	27.34	36.00
6405MHz	Pass	26.04	36.00
6565MHz	Pass	27.40	36.00
6685MHz	Pass	26.70	36.00
6845MHz	Pass	26.18	36.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-
5985MHz	Pass	23.72	36.00
6225MHz	Pass	27.86	36.00
6385MHz	Pass	25.55	36.00
6625MHz	Pass	26.16	36.00
6705MHz	Pass	25.69	36.00
6785MHz	Pass	24.36	36.00
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-
6025MHz	Pass	24.47	36.00
6185MHz	Pass	27.44	36.00
6345MHz	Pass	26.12	36.00
6665MHz	Pass	25.18	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	27.18	36.00
6195MHz	Pass	30.00	36.00
6415MHz	Pass	28.00	36.00
6535MHz	Pass	27.93	36.00
6695MHz	Pass	27.06	36.00
6855MHz	Pass	26.72	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	26.14	36.00
6205MHz	Pass	30.73	36.00
6405MHz	Pass	28.06	36.00
6565MHz	Pass	28.44	36.00
6685MHz	Pass	27.80	36.00
6845MHz	Pass	27.07	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	26.04	36.00
6225MHz	Pass	30.52	36.00
6385MHz	Pass	26.52	36.00
6625MHz	Pass	27.60	36.00
6705MHz	Pass	27.81	36.00
6785MHz	Pass	27.90	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	26.70	36.00
6185MHz	Pass	30.71	36.00
6345MHz	Pass	27.88	36.00
6665MHz	Pass	27.62	36.00
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	-	-	-
5955MHz	Pass	21.79	36.00
6195MHz	Pass	21.80	36.00

Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
6415MHz	Pass	21.03	36.00
6535MHz	Pass	22.27	36.00
6695MHz	Pass	21.06	36.00
6855MHz	Pass	21.58	36.00
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	-	-	-
5965MHz	Pass	24.84	36.00
6205MHz	Pass	20.95	36.00
6405MHz	Pass	21.30	36.00
6565MHz	Pass	20.65	36.00
6685MHz	Pass	21.64	36.00
6845MHz	Pass	21.64	36.00
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	-	-	-
5985MHz	Pass	25.84	36.00
6225MHz	Pass	24.18	36.00
6385MHz	Pass	21.58	36.00
6625MHz	Pass	21.09	36.00
6705MHz	Pass	20.25	36.00
6785MHz	Pass	20.96	36.00
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	-	-	-
6025MHz	Pass	23.90	36.00
6185MHz	Pass	23.13	36.00
6345MHz	Pass	23.30	36.00
6665MHz	Pass	20.65	36.00

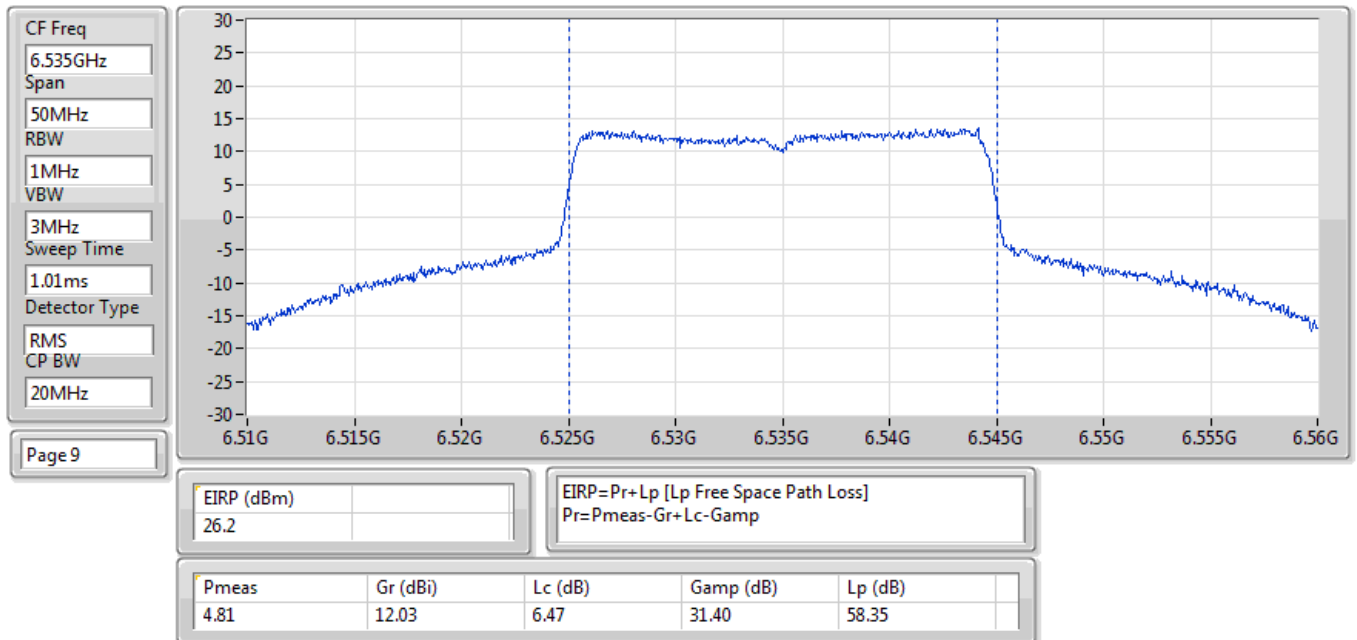
DG = Directional Gain; Port X = Port X output power



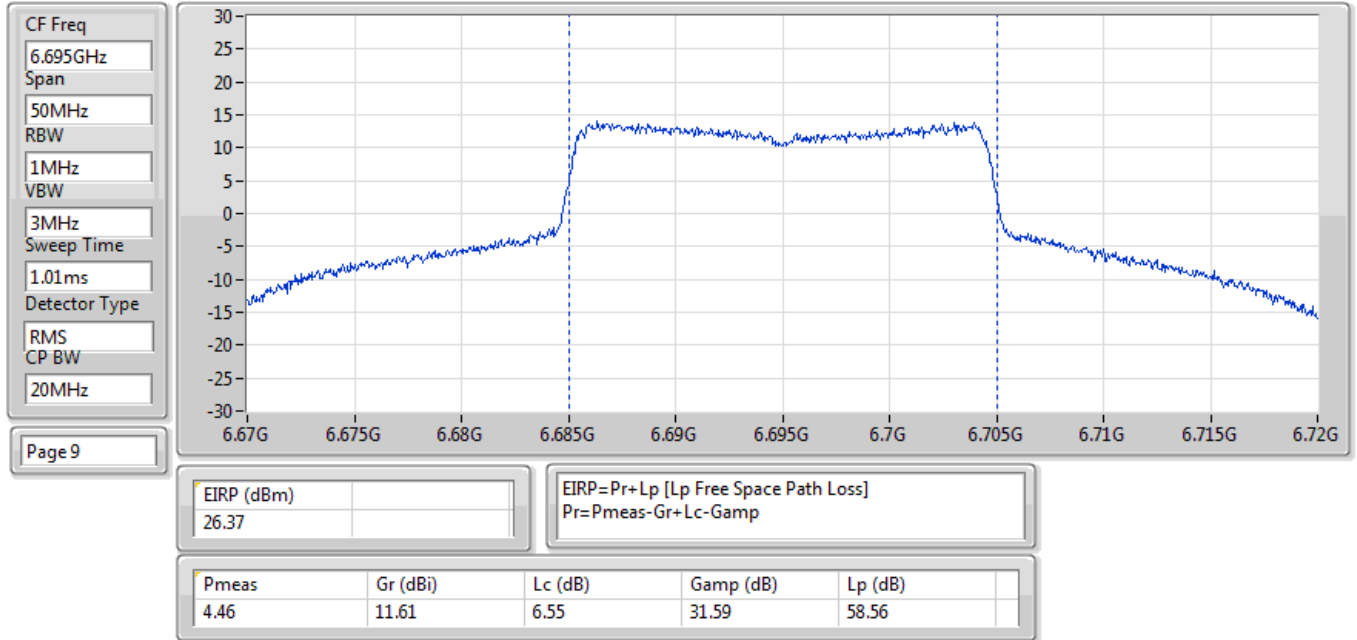
EIRP;Band:6.2G;ax20;BWch:20MHz;Nss:1;(M0);Nant:1;Ch:6415MHz;TX



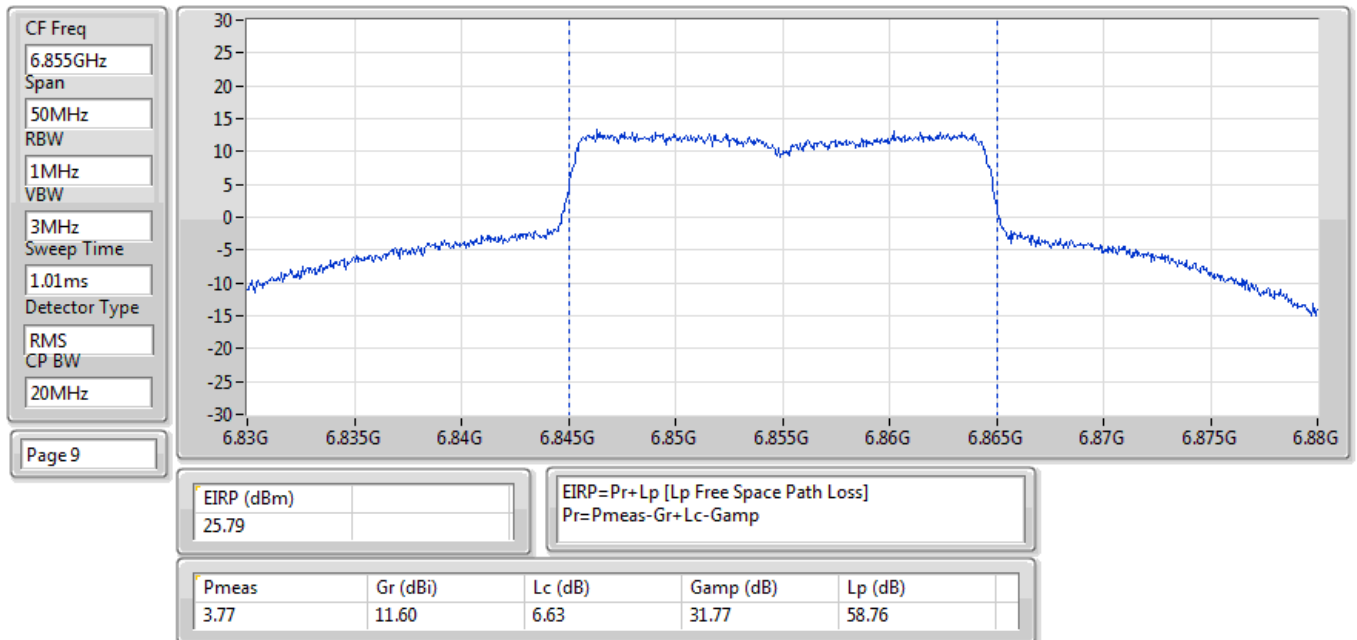
EIRP;Band:6.7G;ax20;BWch:20MHz;Nss:1;(M0);Nant:1;Ch:6535MHz;TX



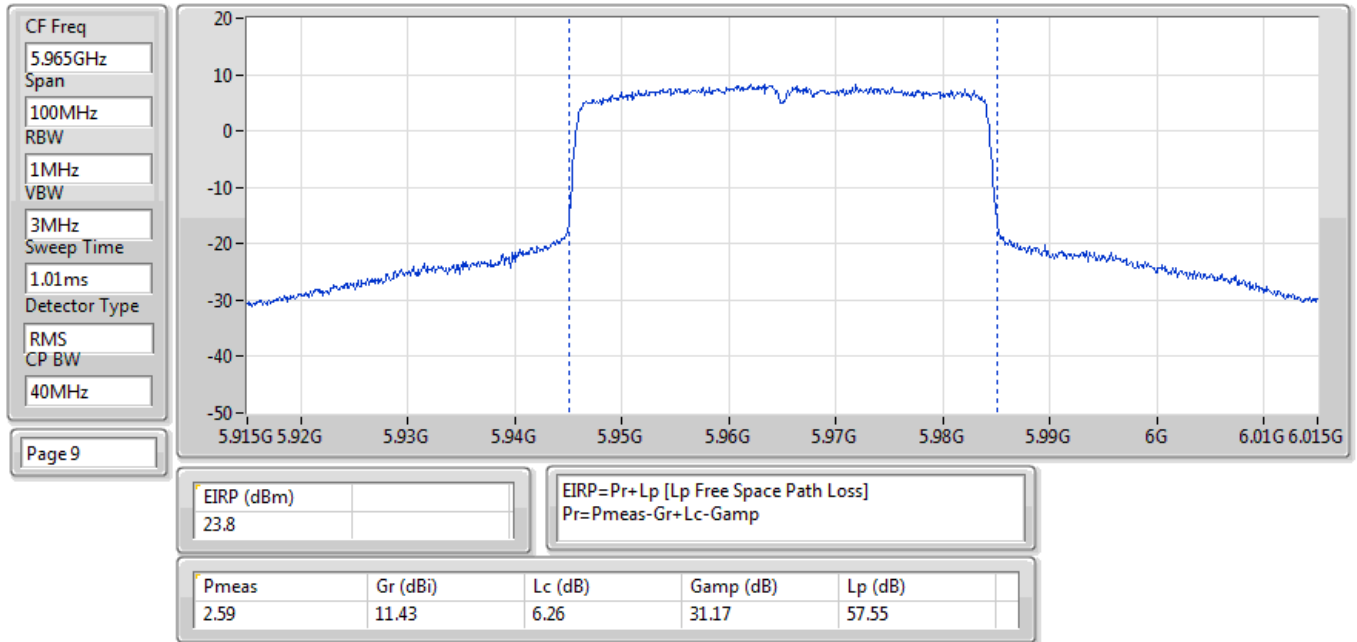
EIRP;Band:6.7G;ax20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6695MHz;TX



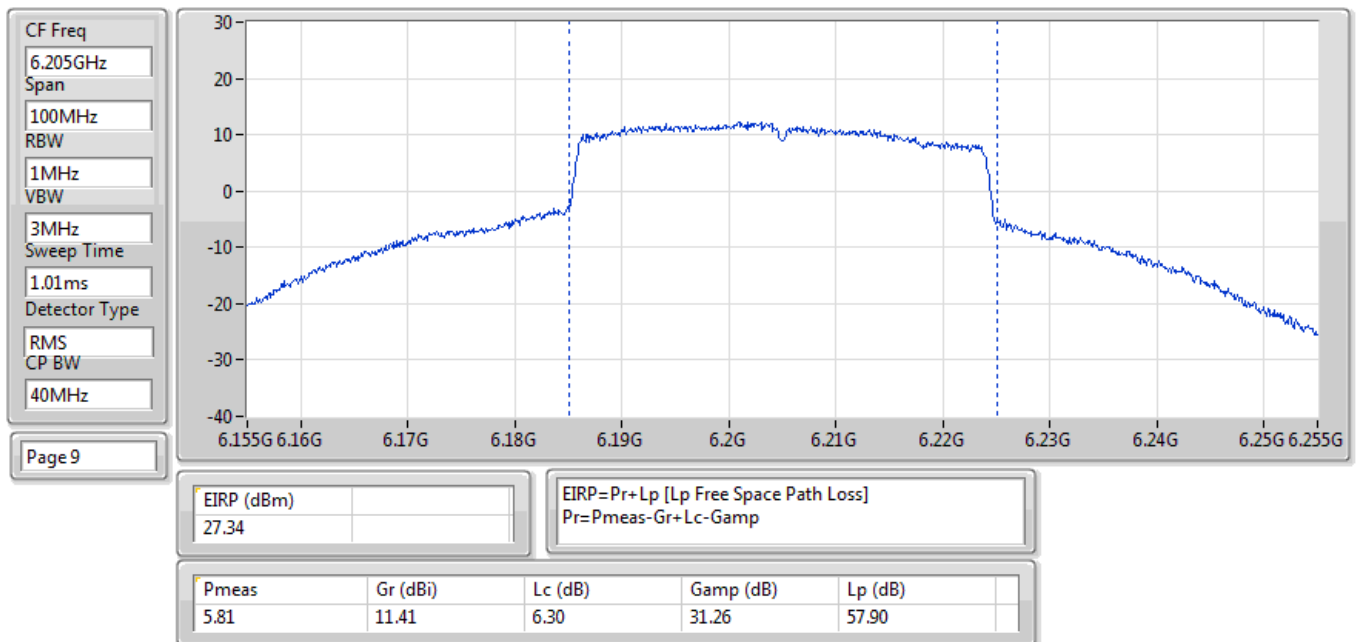
EIRP;Band:6.7G;ax20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6855MHz;TX



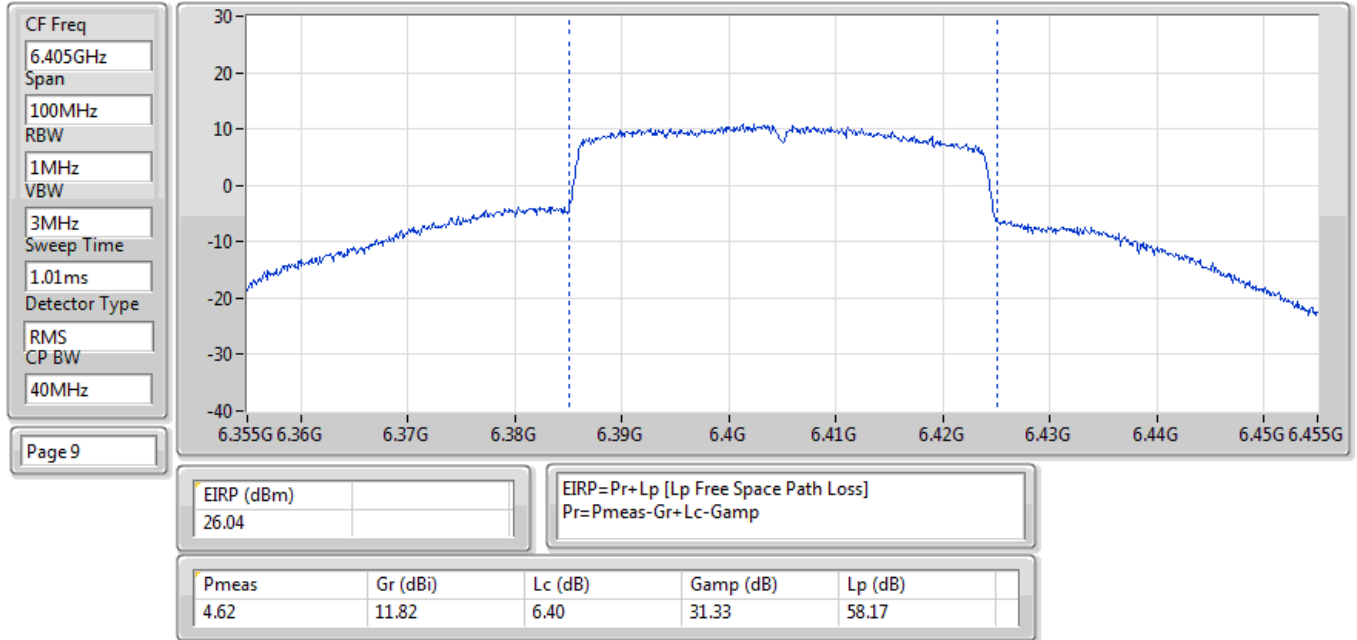
EIRP;Band:6.2G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5965MHz;TX



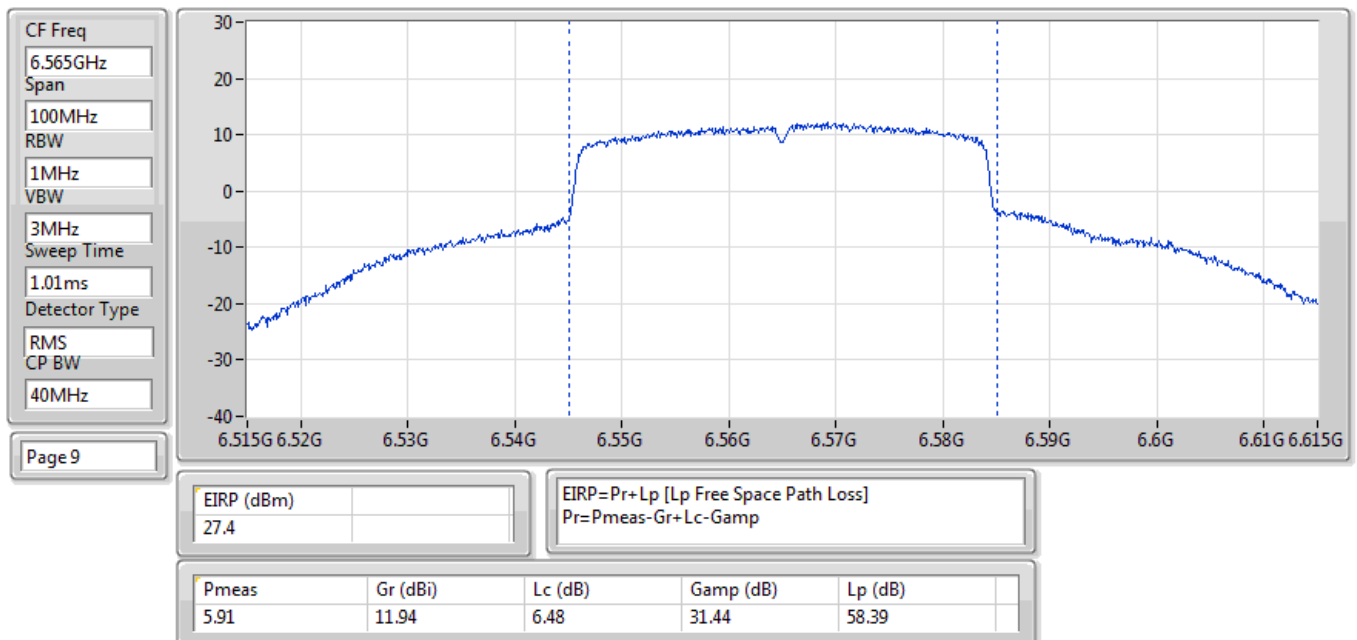
EIRP;Band:6.2G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6205MHz;TX



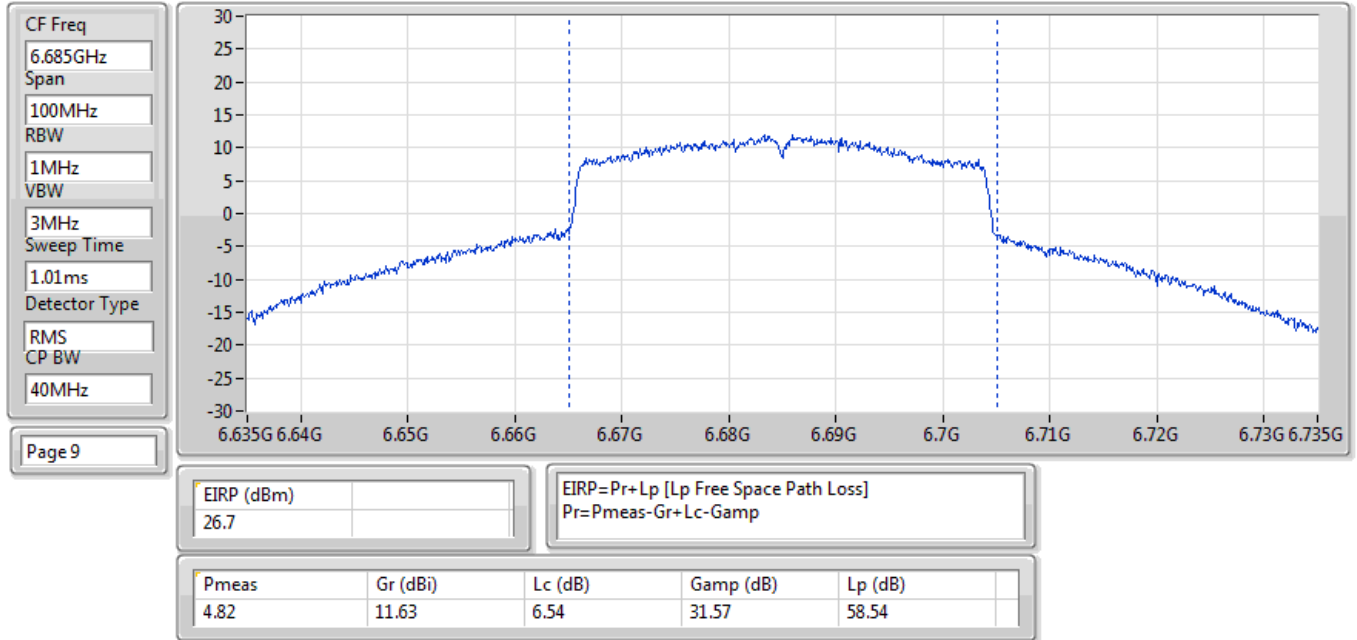
EIRP;Band:6.2G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6405MHz;TX



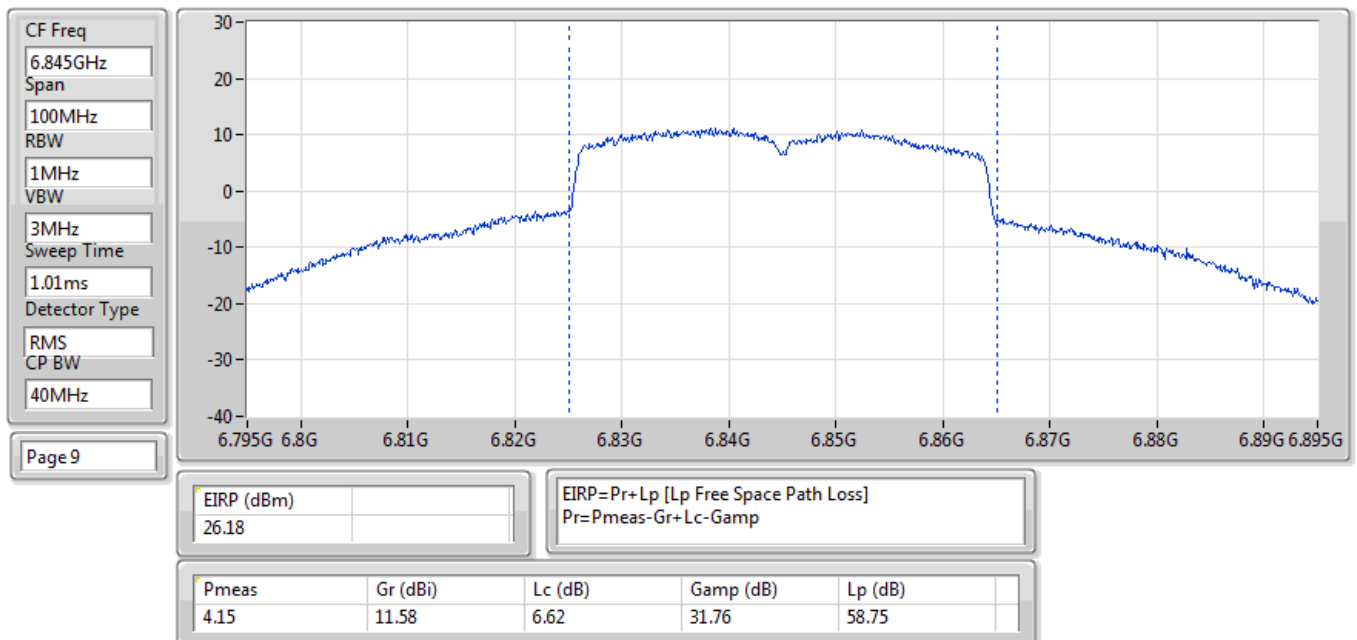
EIRP;Band:6.7G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6565MHz;TX



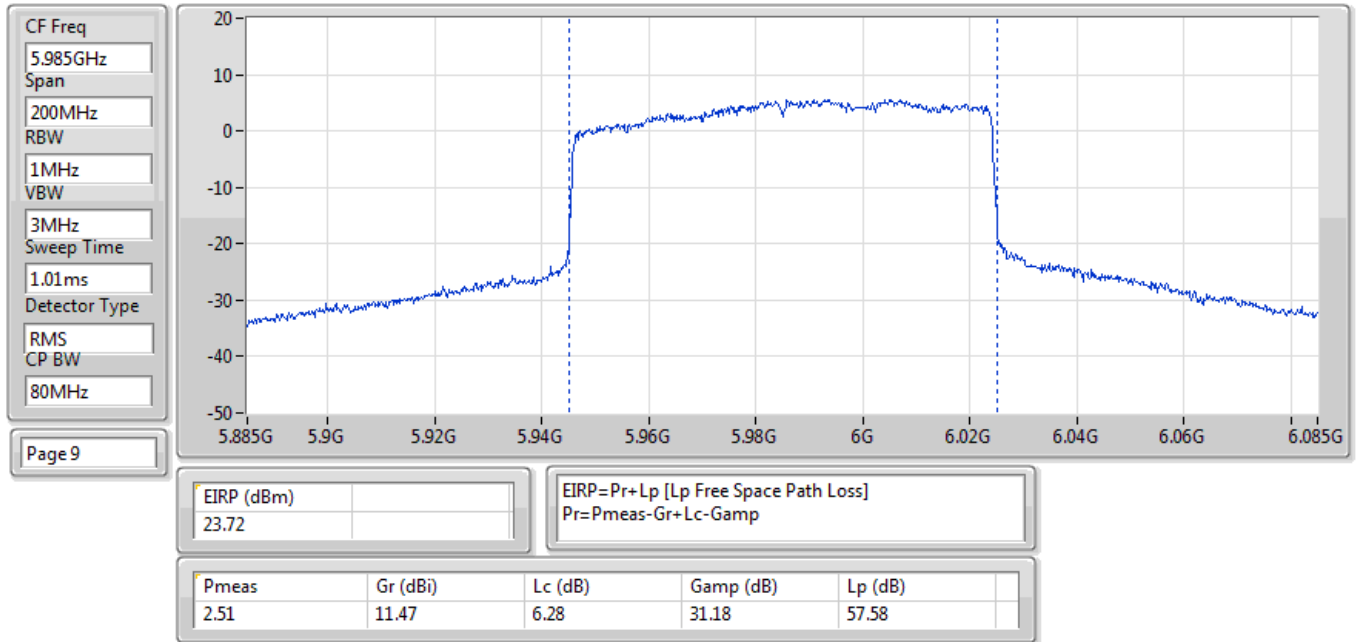
EIRP;Band:6.7G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6685MHz;TX



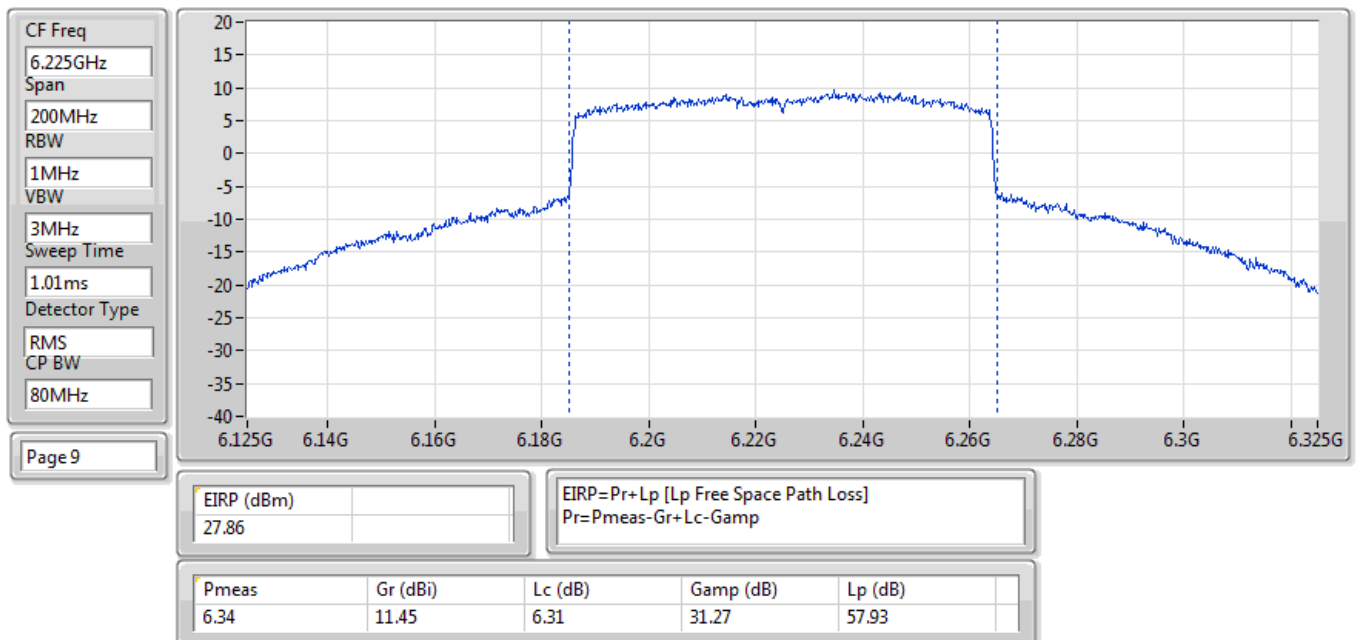
EIRP;Band:6.7G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6845MHz;TX



EIRP;Band:6.2G;ax80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5985MHz;TX



EIRP;Band:6.2G;ax80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6225MHz;TX



EIRP;Band:6.2G;ax80;BWch:80MHz;Nss:1;(M0);Nant:1;Ch:6385MHz;TX

CF Freq

6.385GHz

Span

200MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1.01ms

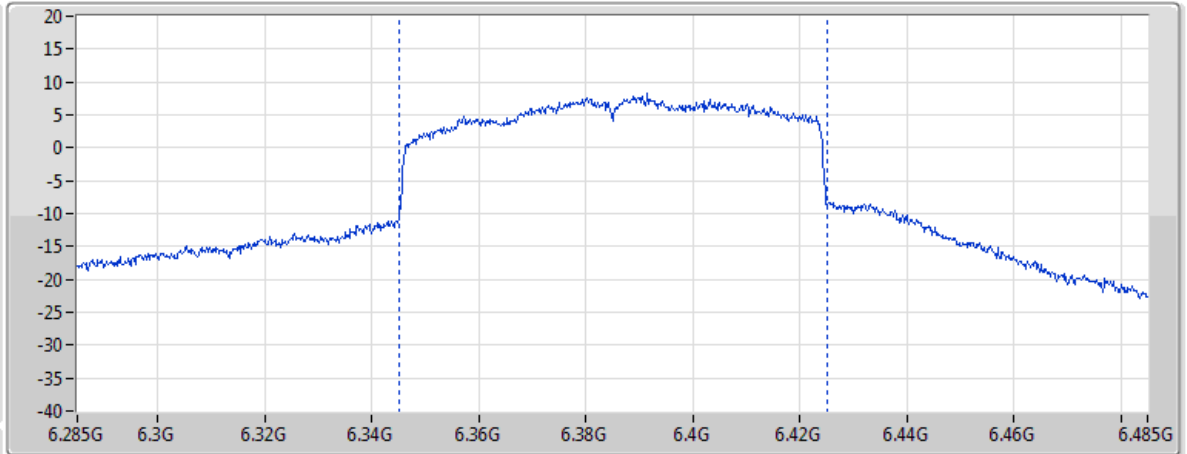
Detector Type

RMS

CP BW

80MHz

Page 9



EIRP (dBm)

25.55

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas

4.13

Gr (dBi)

11.80

Lc (dB)

6.39

Gamp (dB)

31.32

Lp (dB)

58.15

EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1;(M0);Nant:1;Ch:6625MHz;TX

CF Freq

6.625GHz

Span

200MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1.01ms

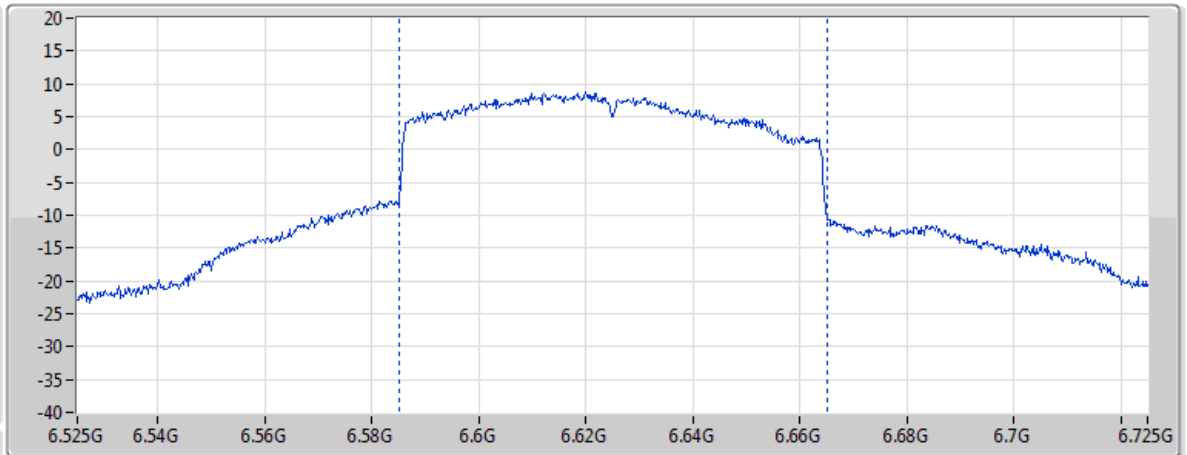
Detector Type

RMS

CP BW

80MHz

Page 9



EIRP (dBm)

26.16

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas

4.43

Gr (dBi)

11.75

Lc (dB)

6.51

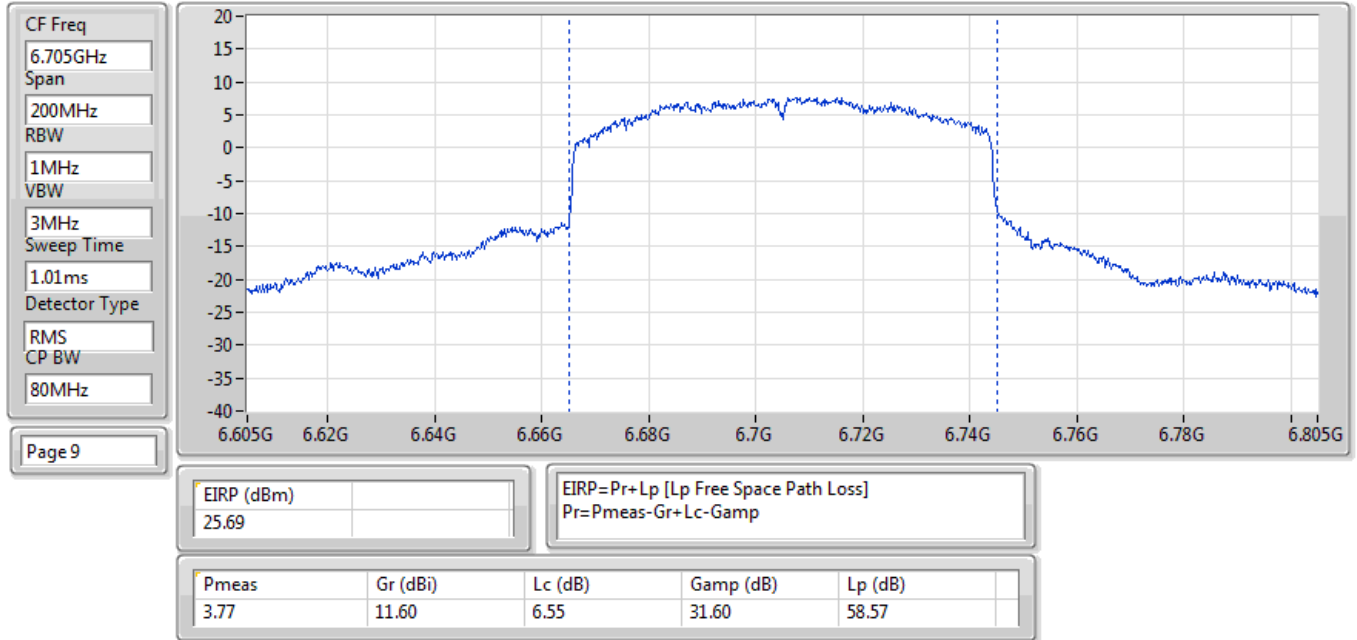
Gamp (dB)

31.50

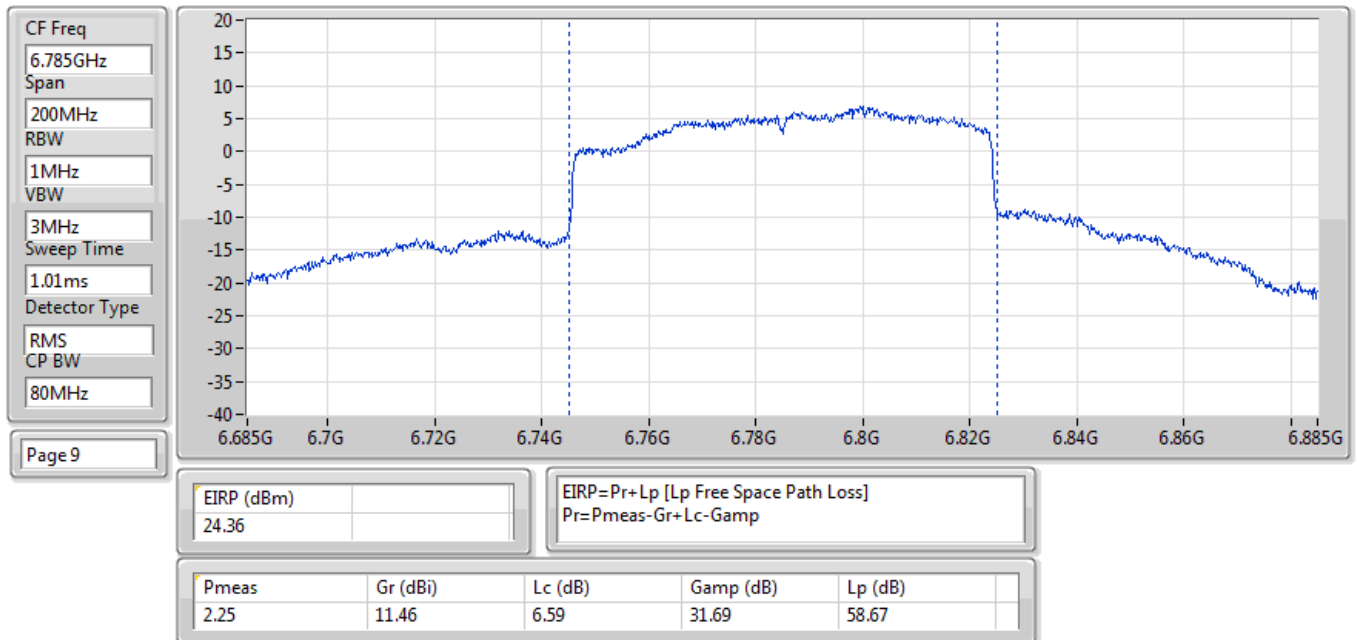
Lp (dB)

58.47

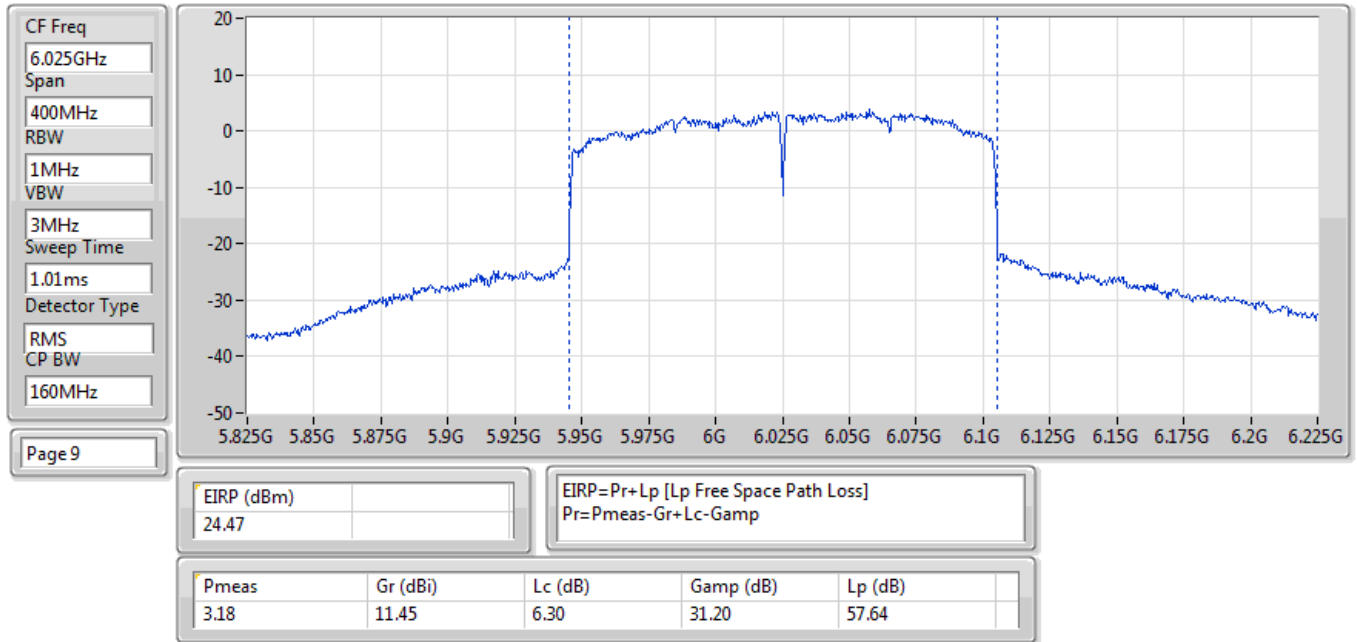
EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6705MHz;TX



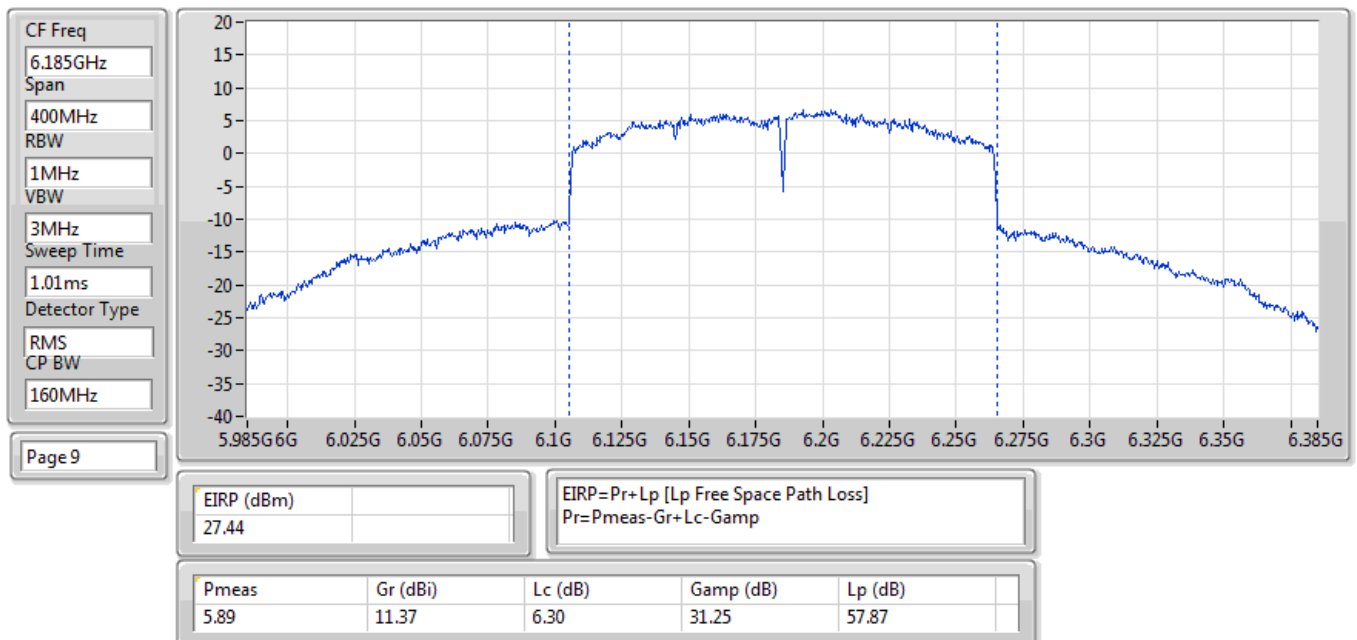
EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:6785MHz;TX



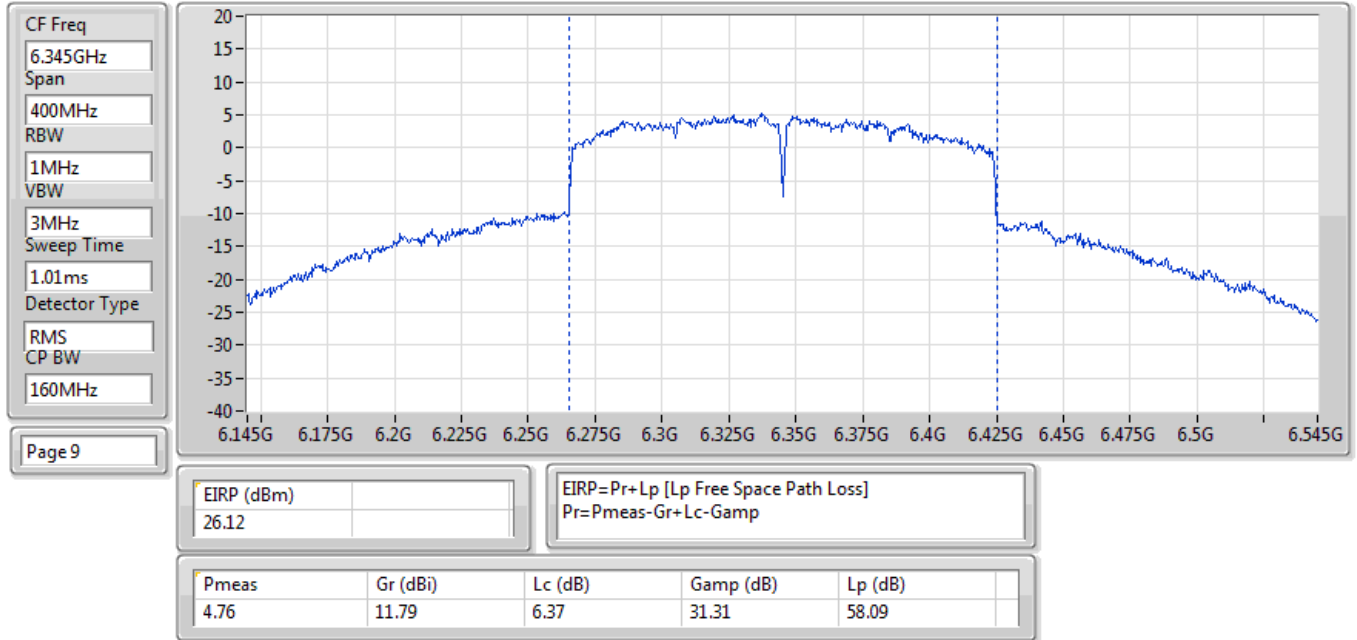
EIRP;Band:6.2G;ax160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6025MHz;TX



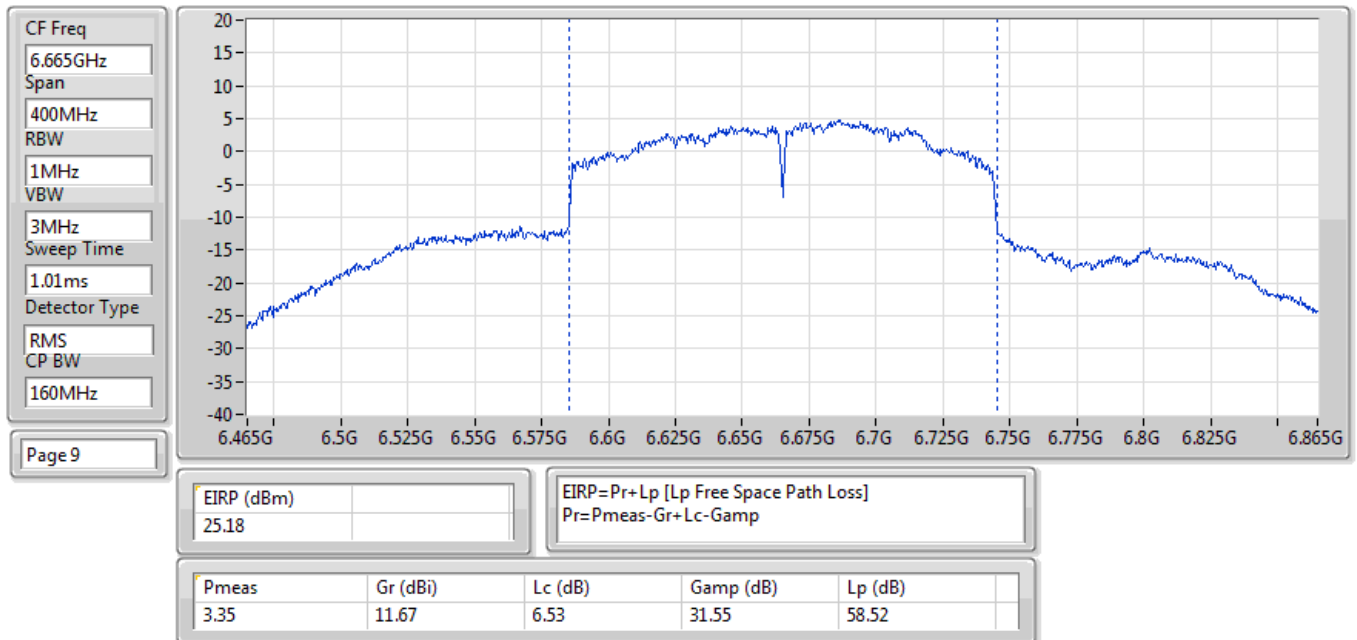
EIRP;Band:6.2G;ax160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6185MHz;TX



EIRP;Band:6.2G;ax160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6345MHz;TX



EIRP;Band:6.7G;ax160;BWch:160MHz;Nss:1,(M0);Nant:1;Ch:6665MHz;TX



EIRP;Band:6.2G;ax20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:5955MHz;TX

CF Freq

5.955GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1.01ms

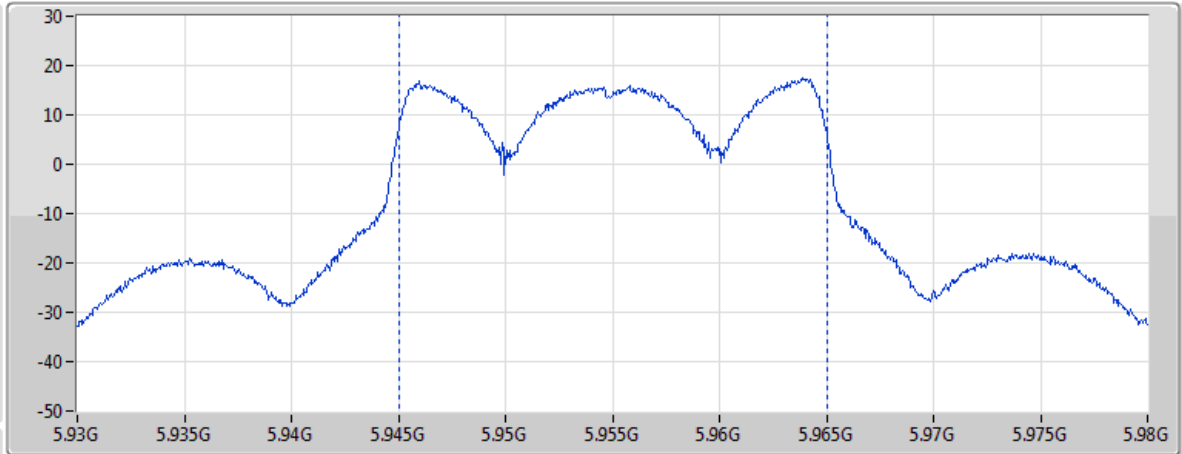
Detector Type

RMS

CP BW

20MHz

Page 9



EIRP (dBm)

27.18

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas

6.44

Gr (dBi)

10.20

Lc (dB)

6.38

Gamp (dB)

32.98

Lp (dB)

57.54

EIRP;Band:6.2G;ax20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:6195MHz;TX

CF Freq

6.195GHz

Span

50MHz

RBW

1MHz

VBW

3MHz

Sweep Time

1.01ms

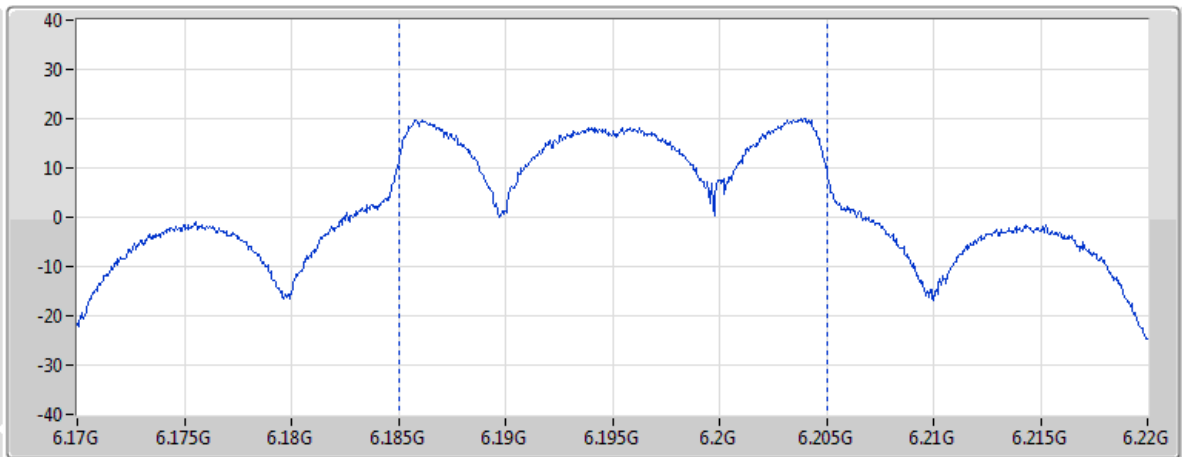
Detector Type

RMS

CP BW

20MHz

Page 9



EIRP (dBm)

30

EIRP=Pr+Lp [Lp Free Space Path Loss]

Pr=Pmeas-Gr+Lc-Gamp

Pmeas

8.94

Gr (dBi)

10.30

Lc (dB)

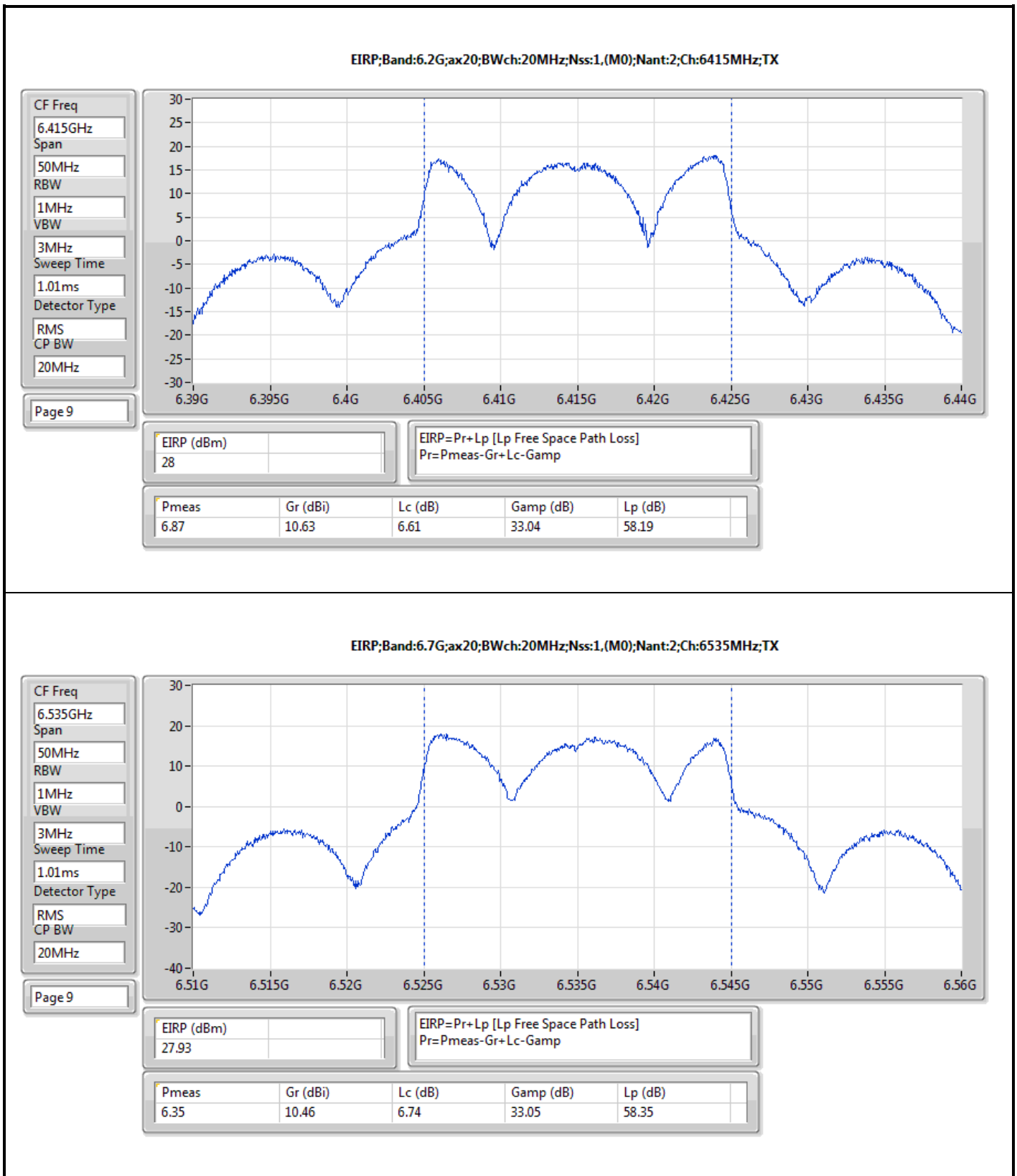
6.50

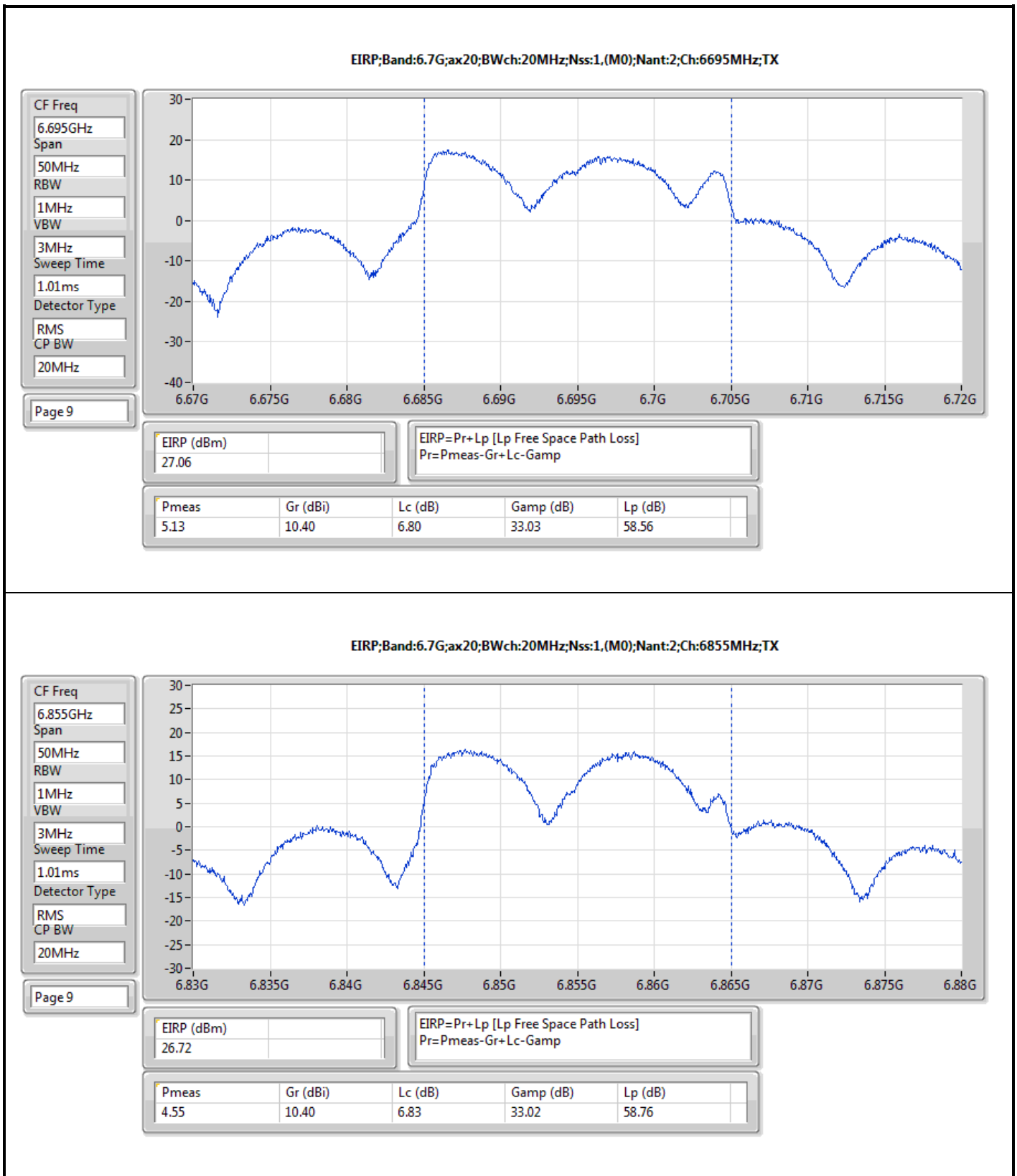
Gamp (dB)

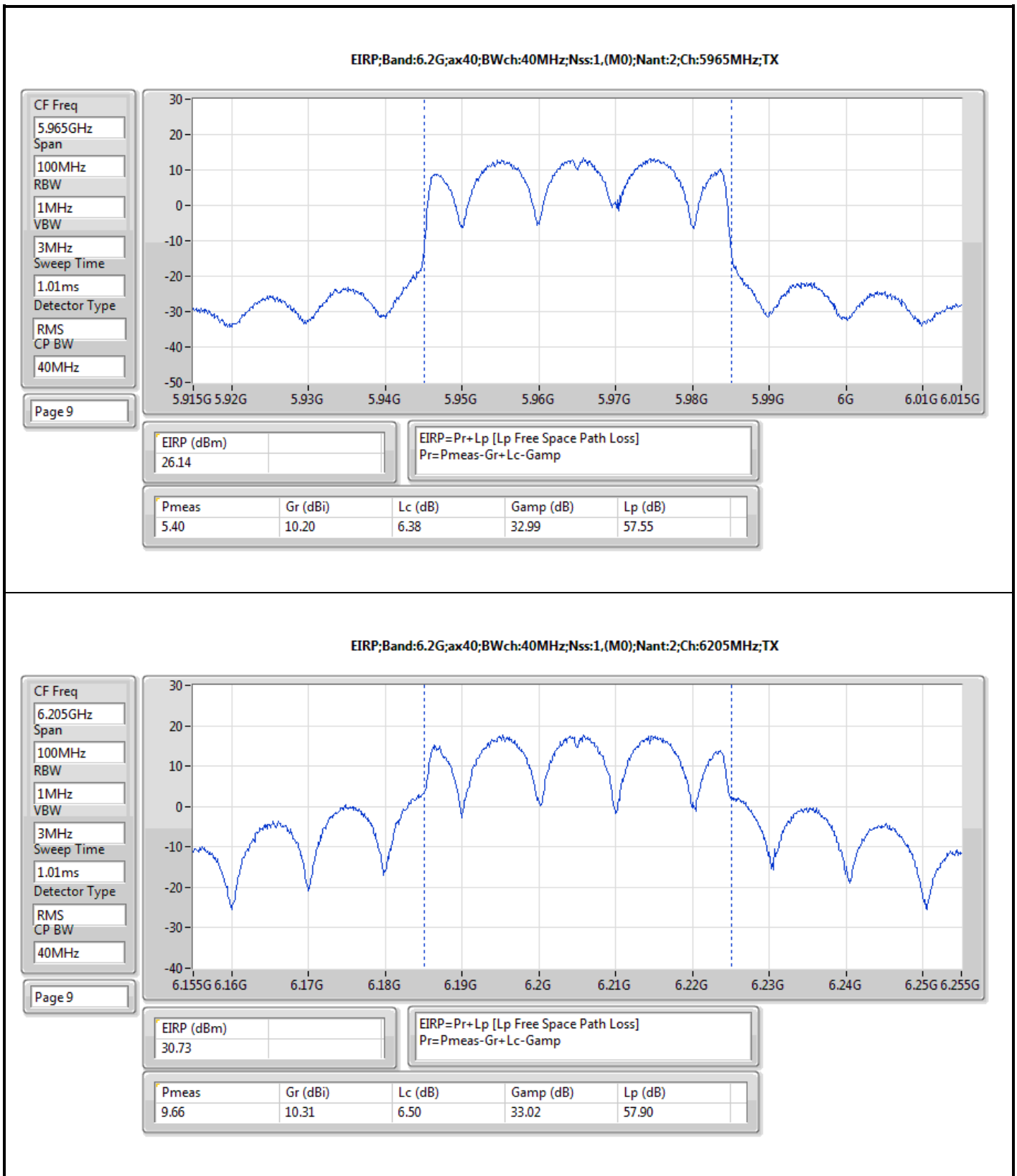
33.02

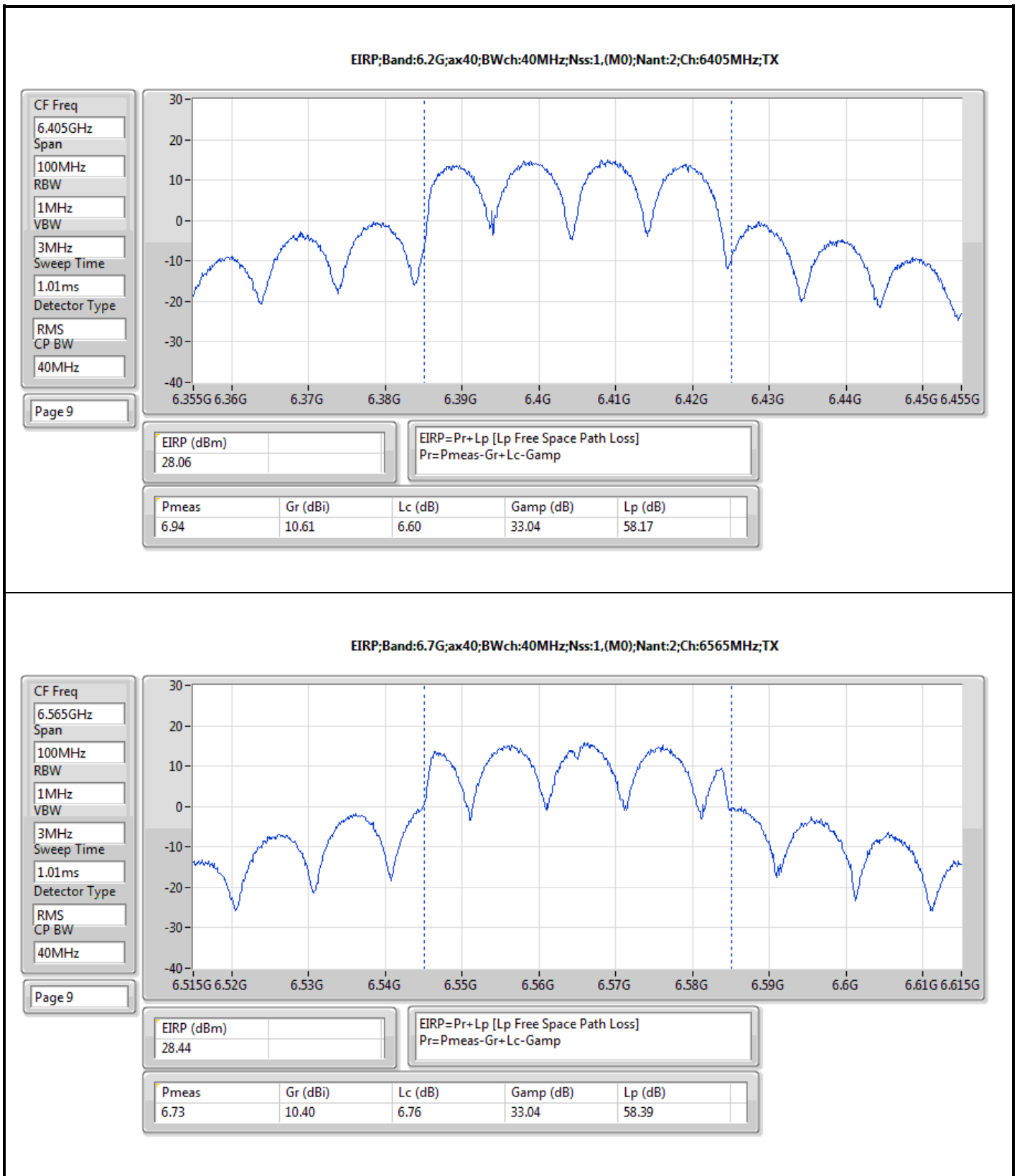
Lp (dB)

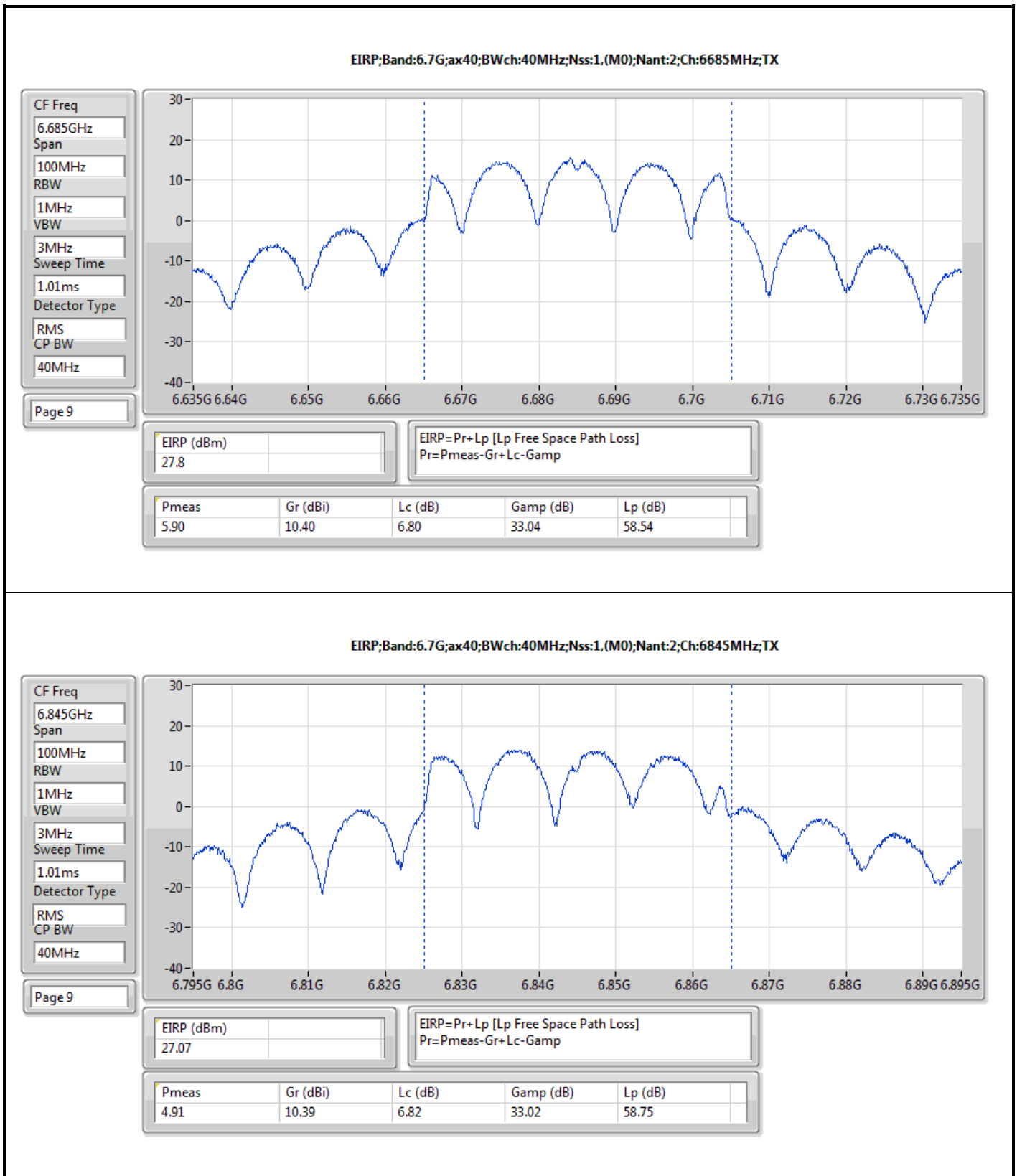
57.88

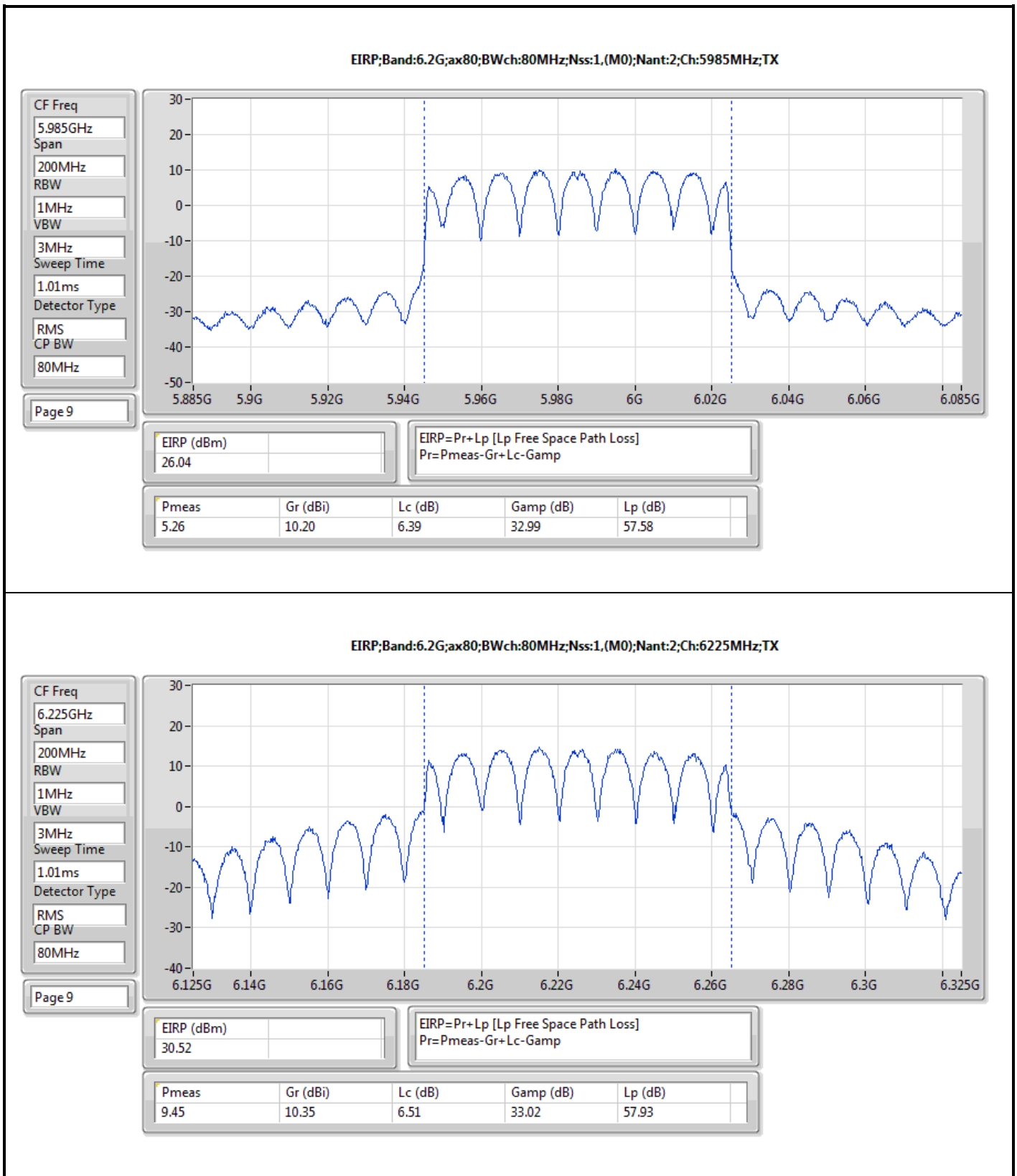




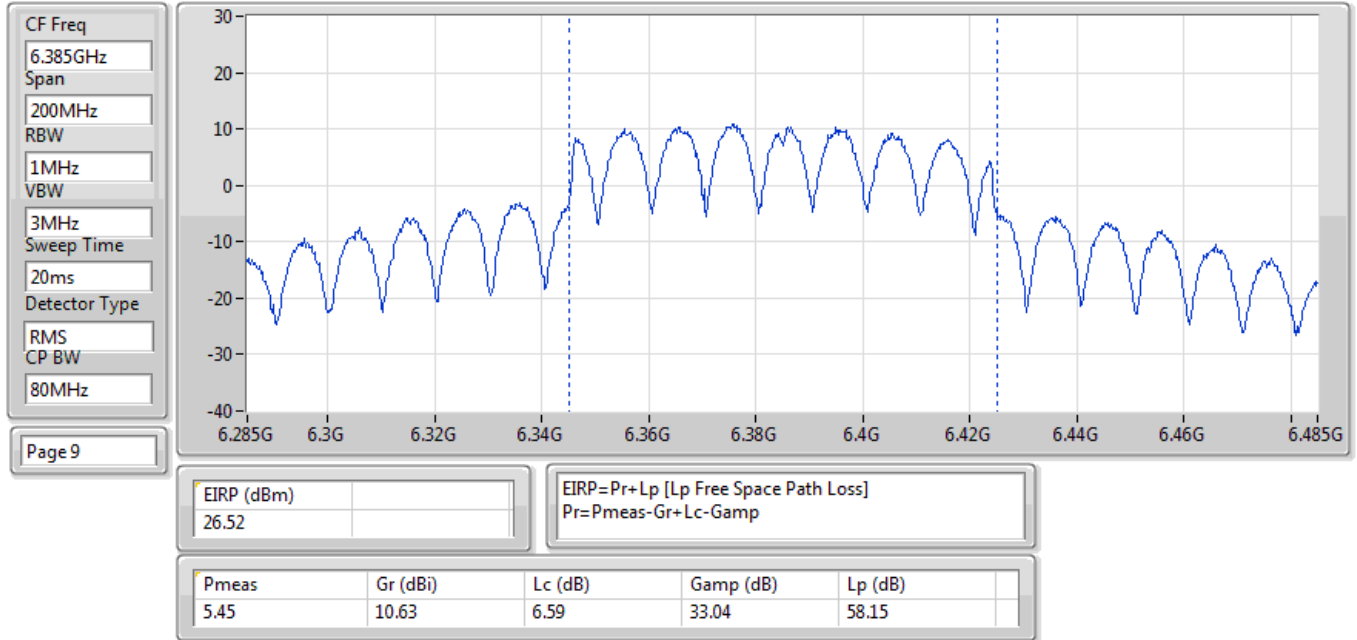




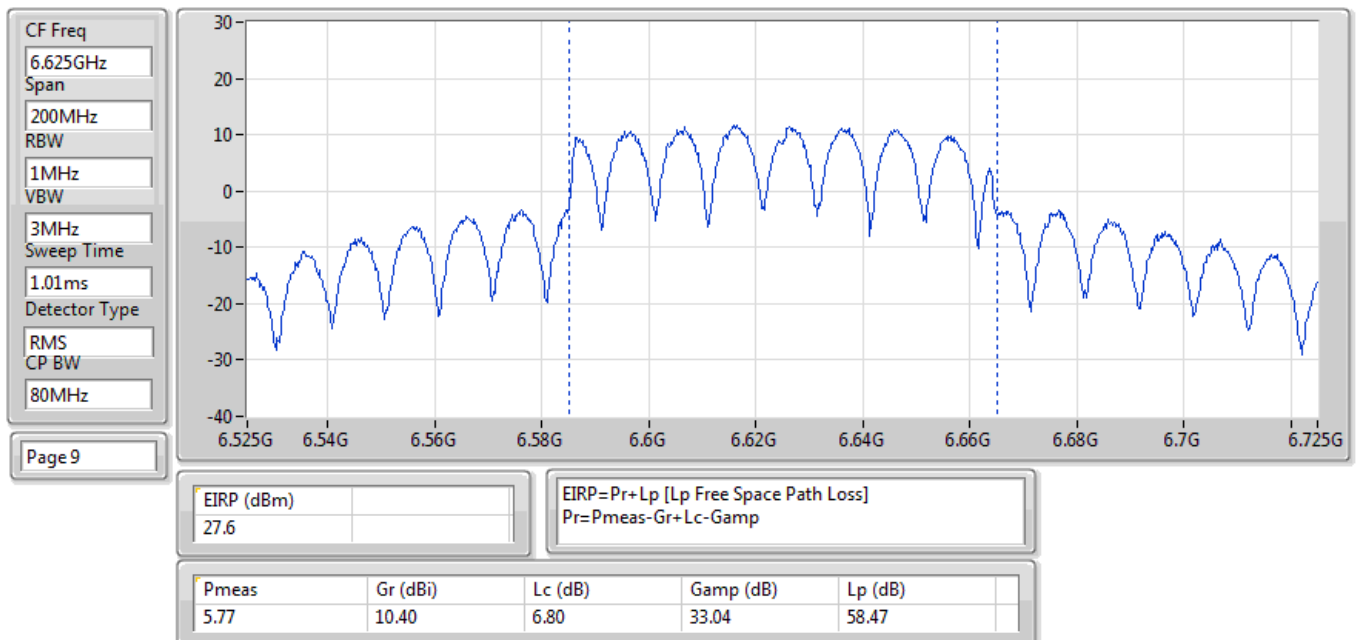




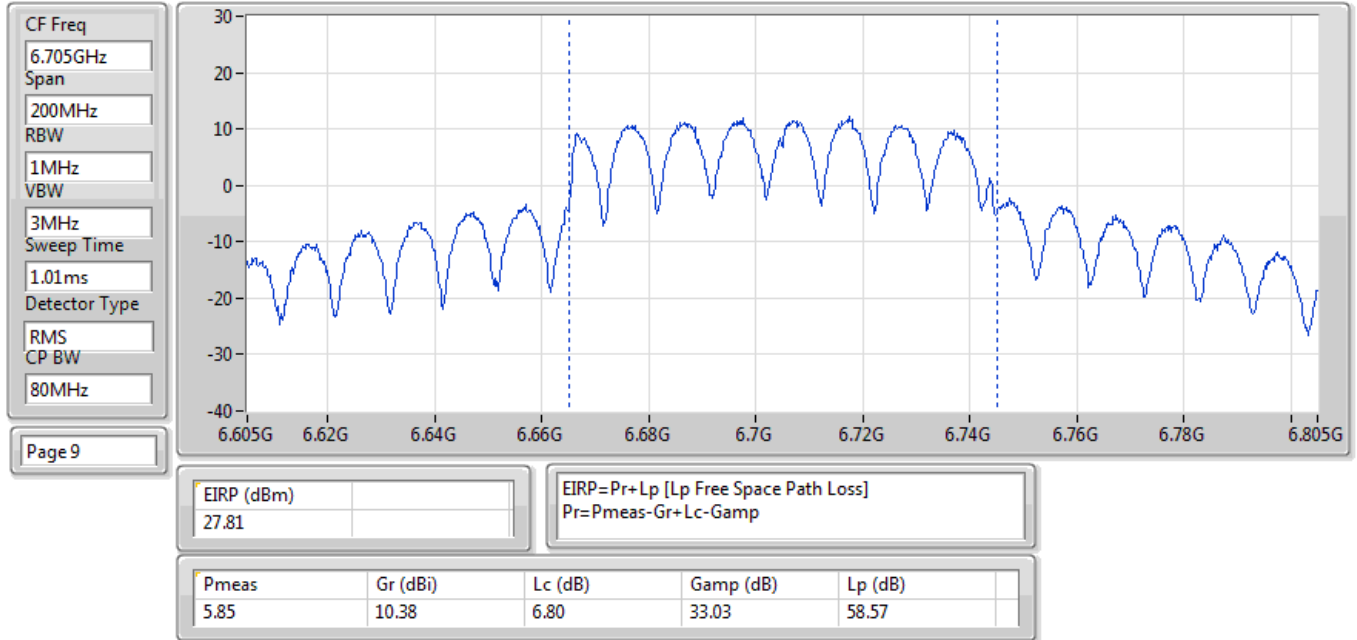
EIRP;Band:6.2G;ax80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6385MHz;TX



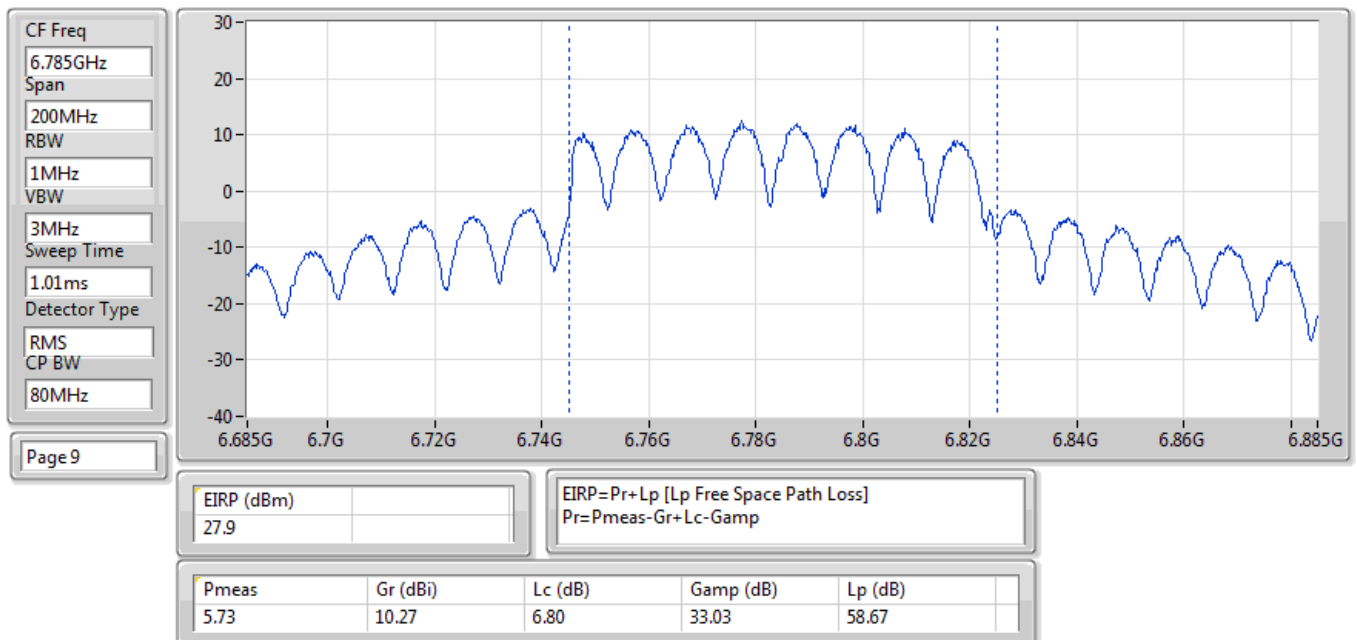
EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6625MHz;TX



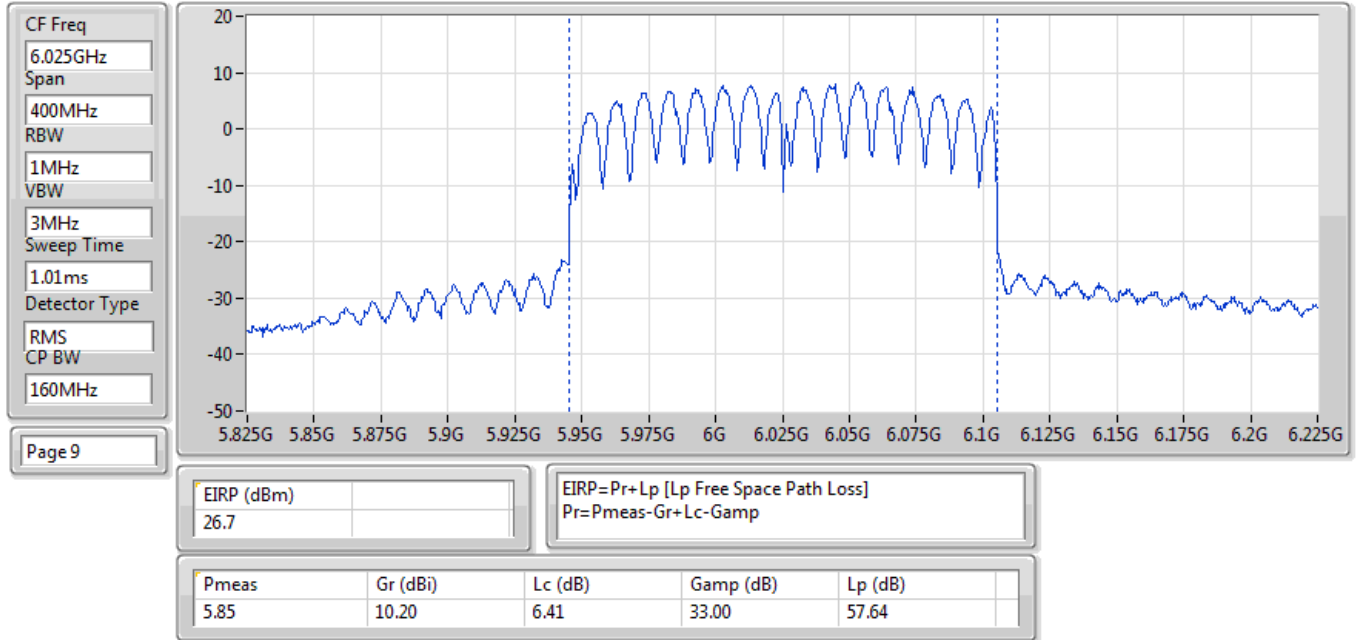
EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6705MHz;TX



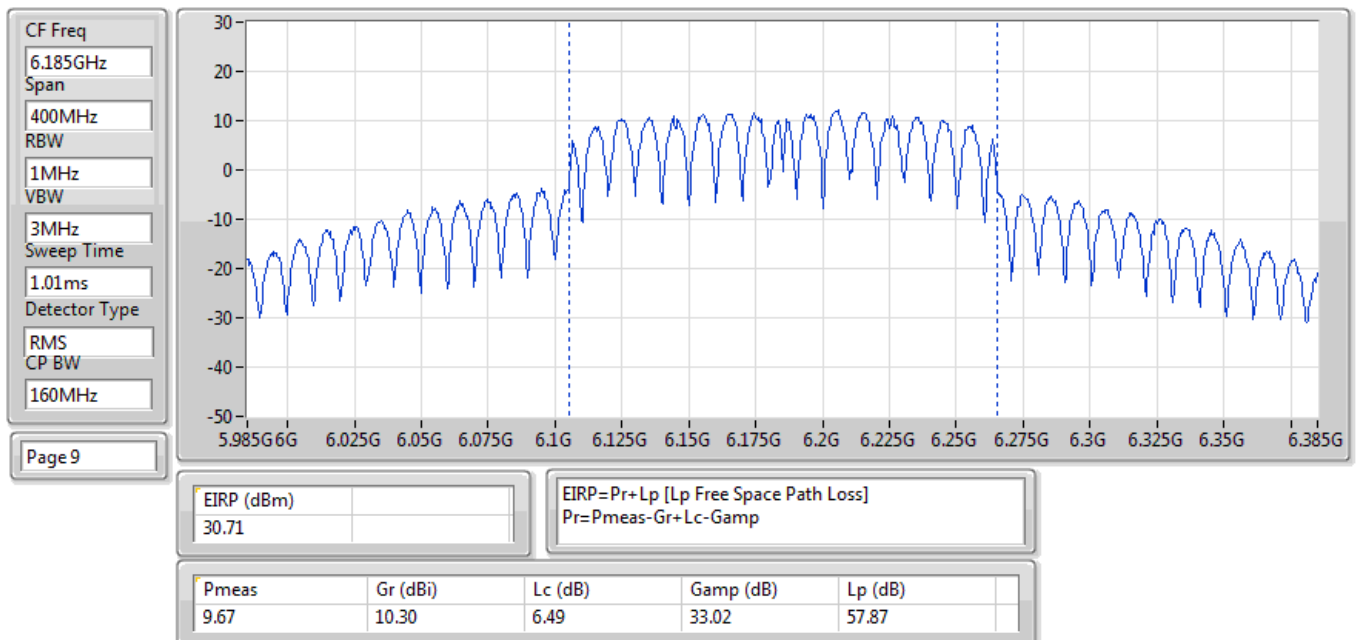
EIRP;Band:6.7G;ax80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:6785MHz;TX

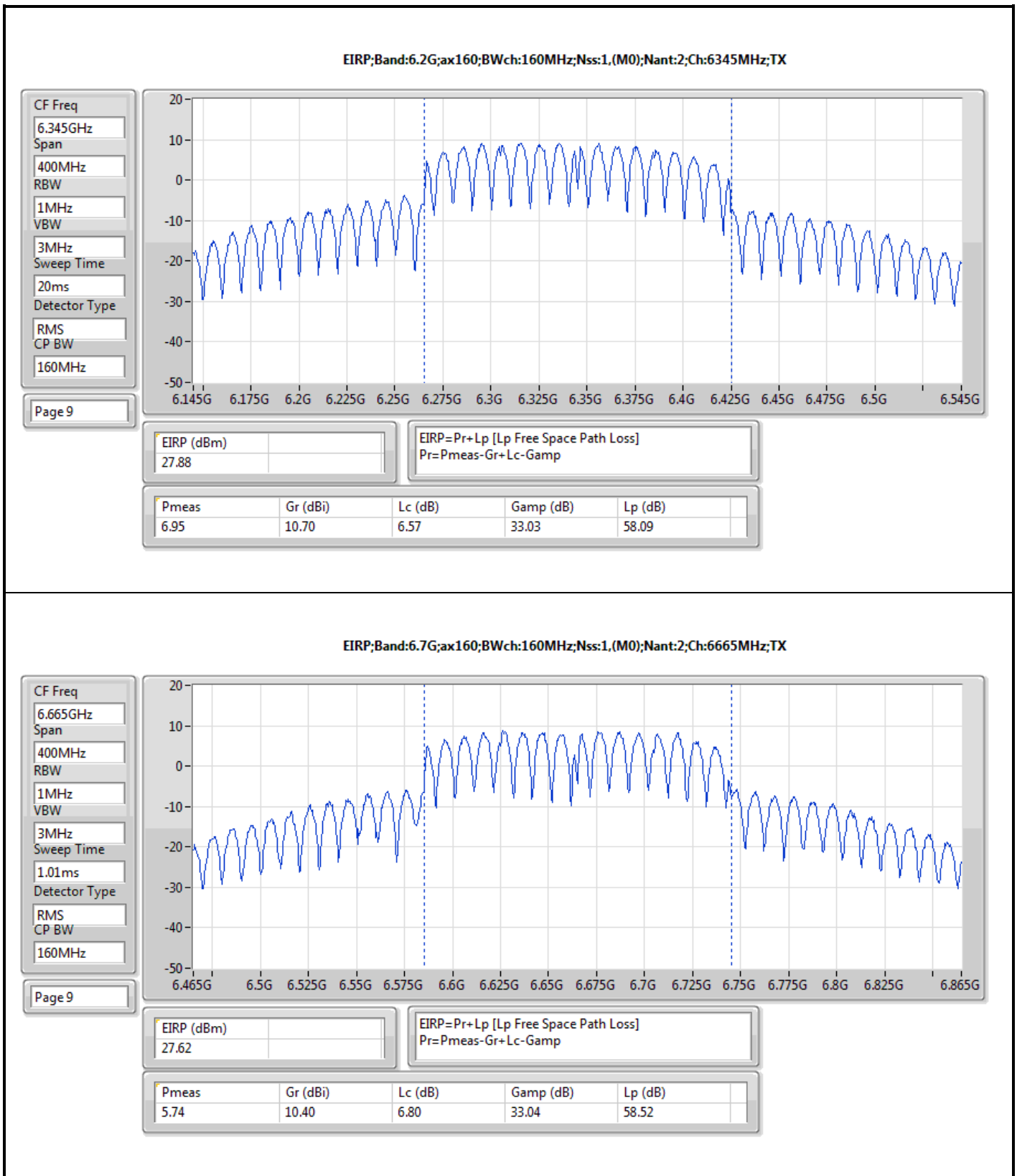


EIRP;Band:6.2G;ax160;BWch:160MHz;Nss:1,(M0);Nant:2;Ch:6025MHz;TX

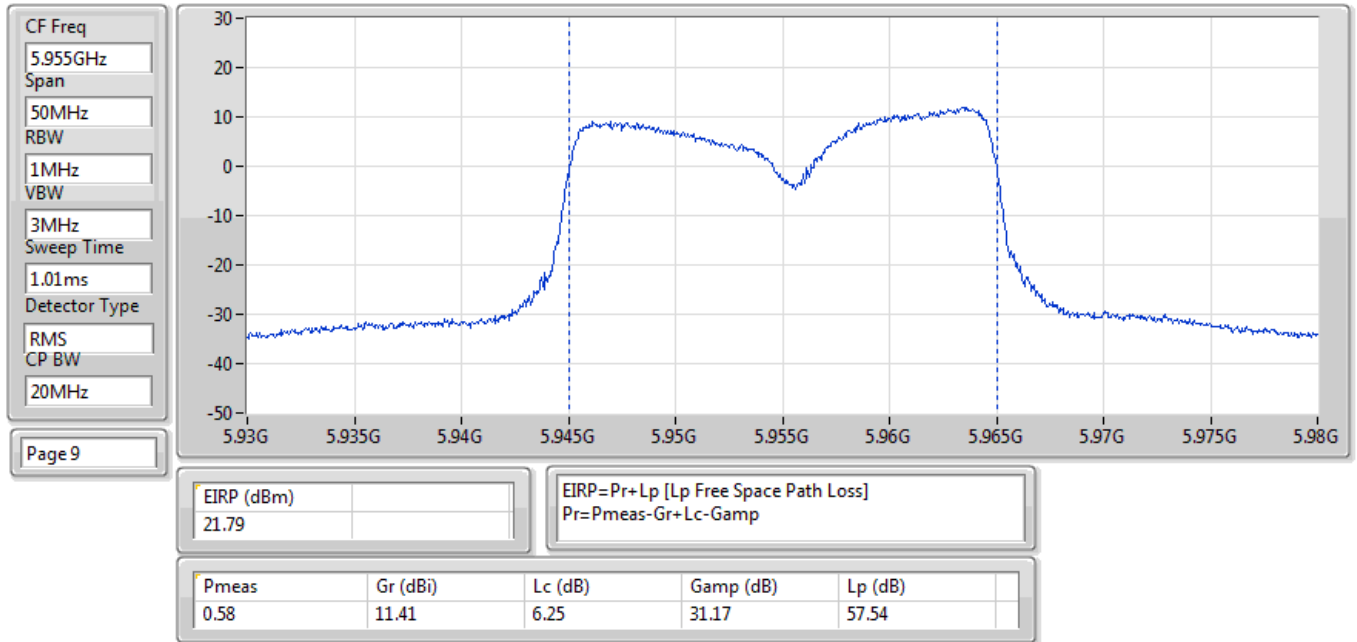


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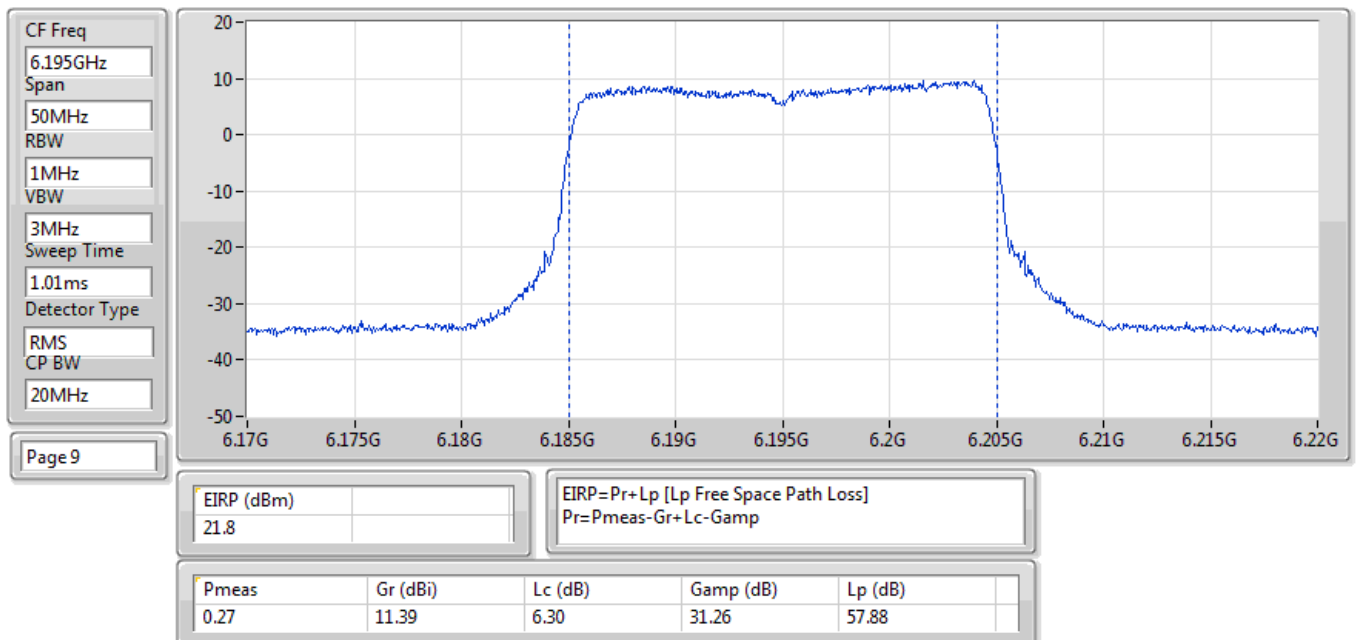




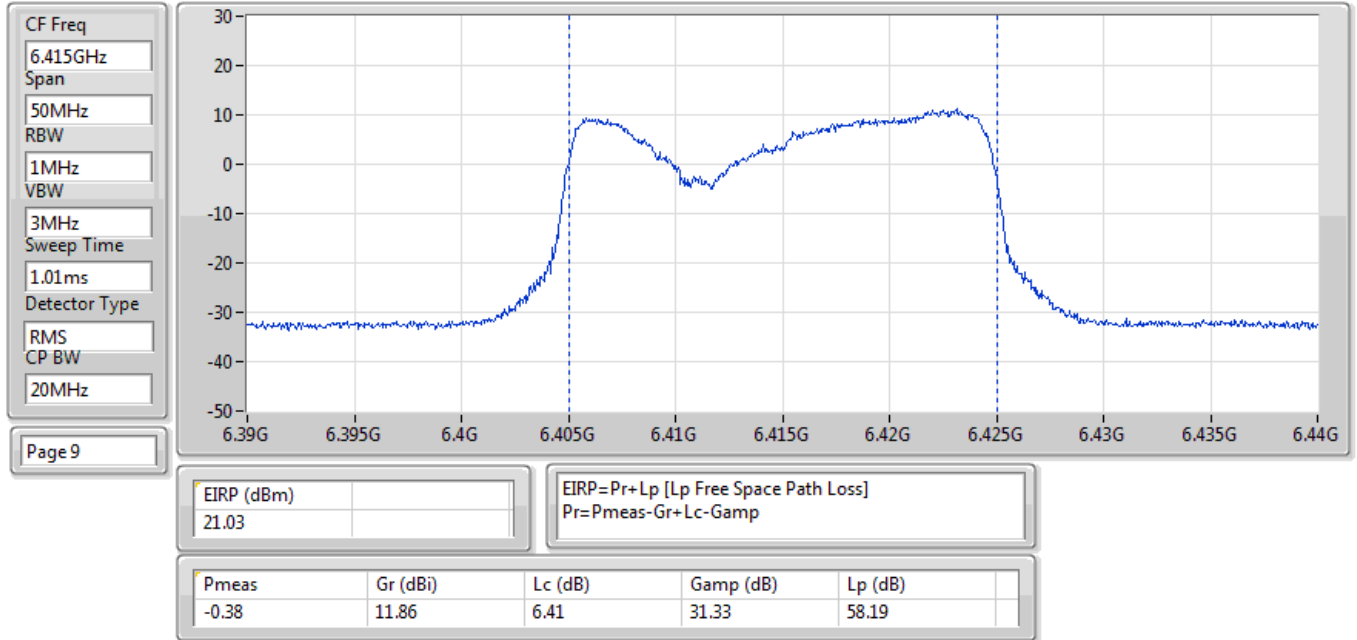
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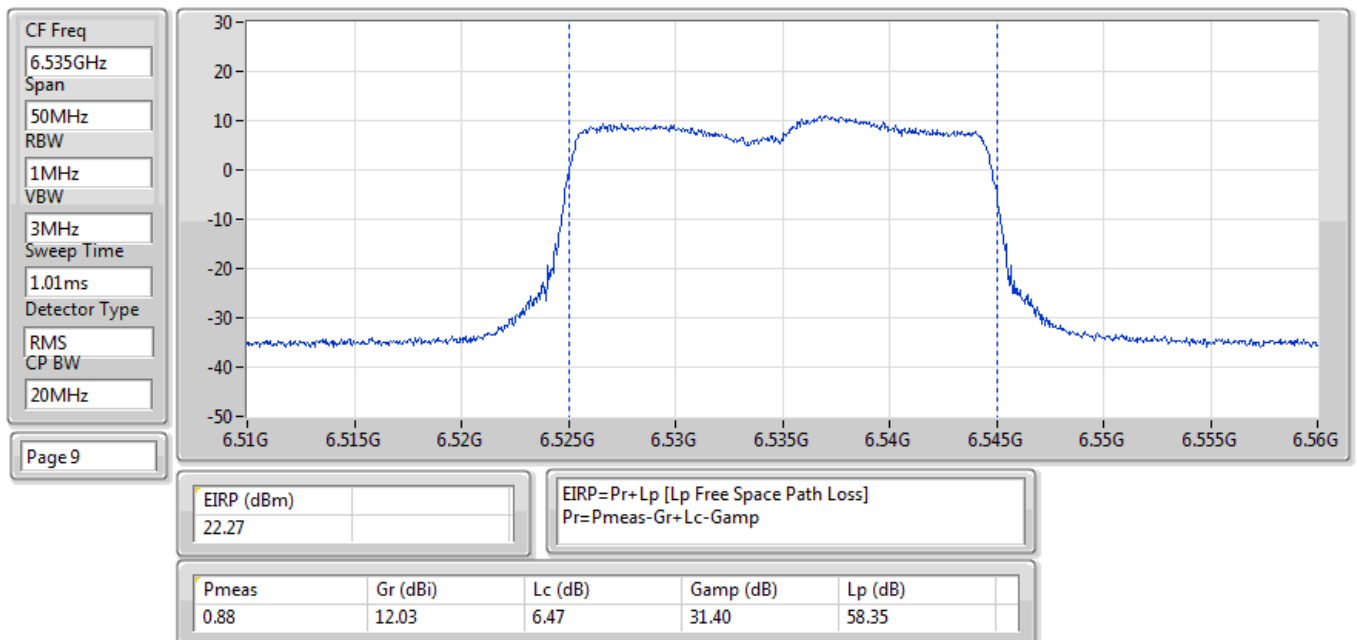
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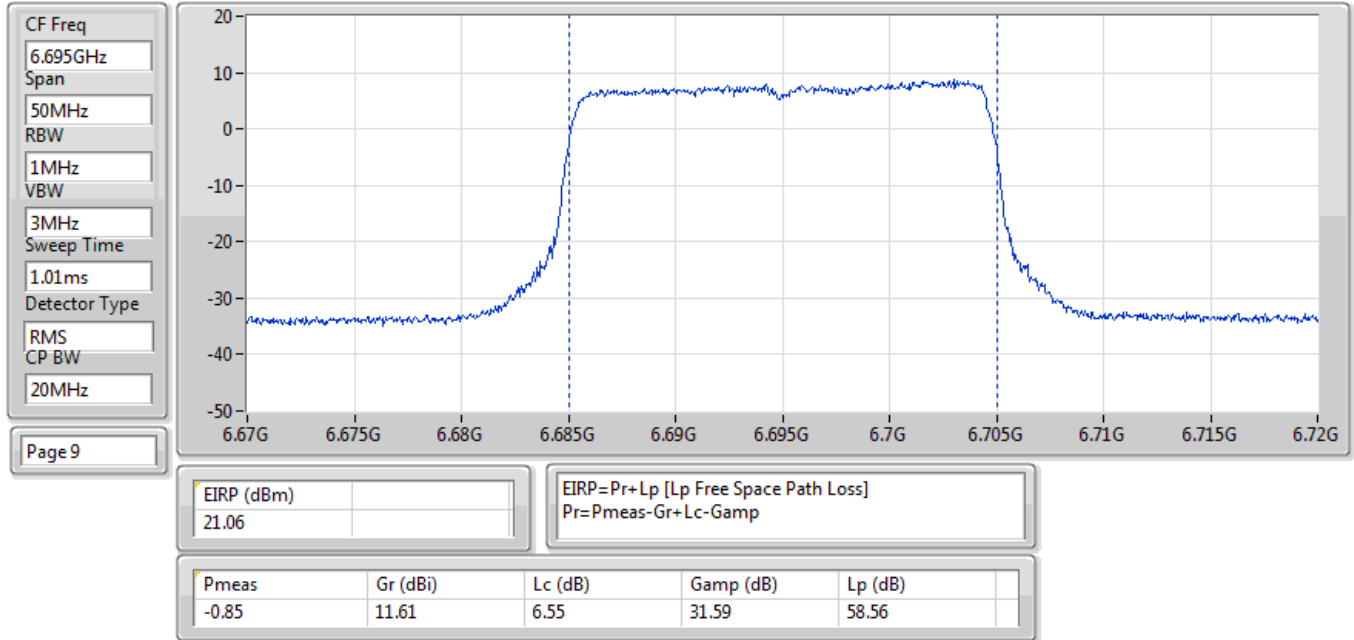
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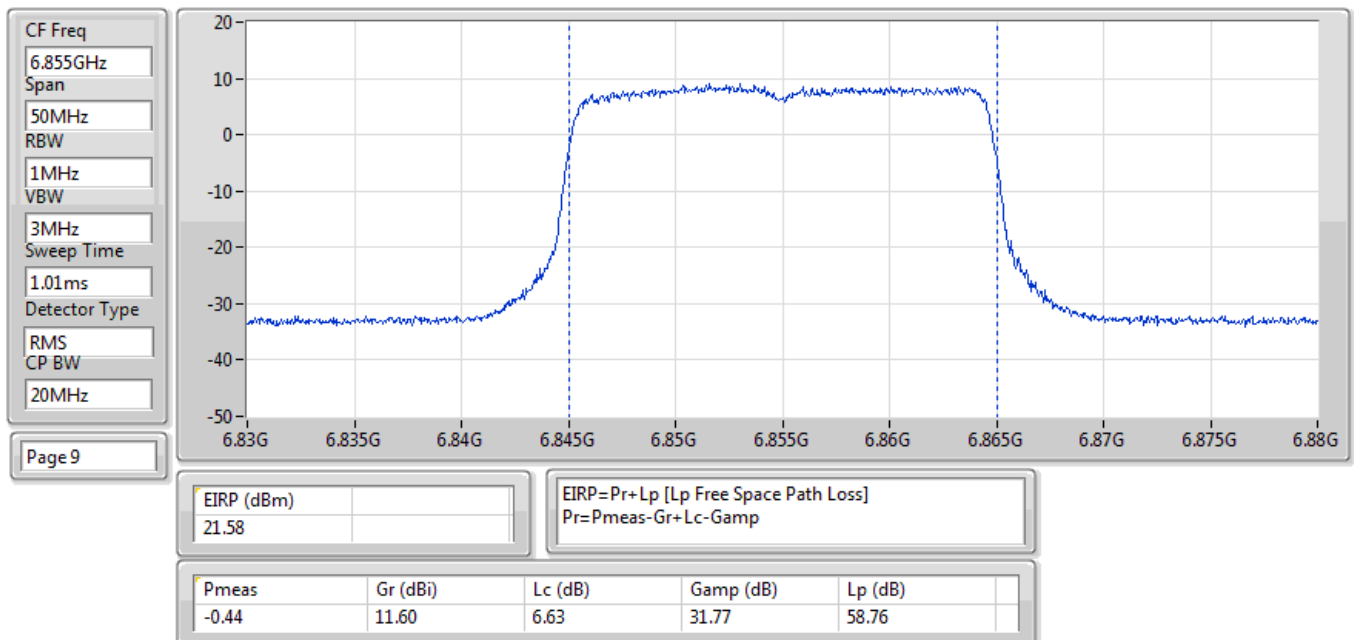
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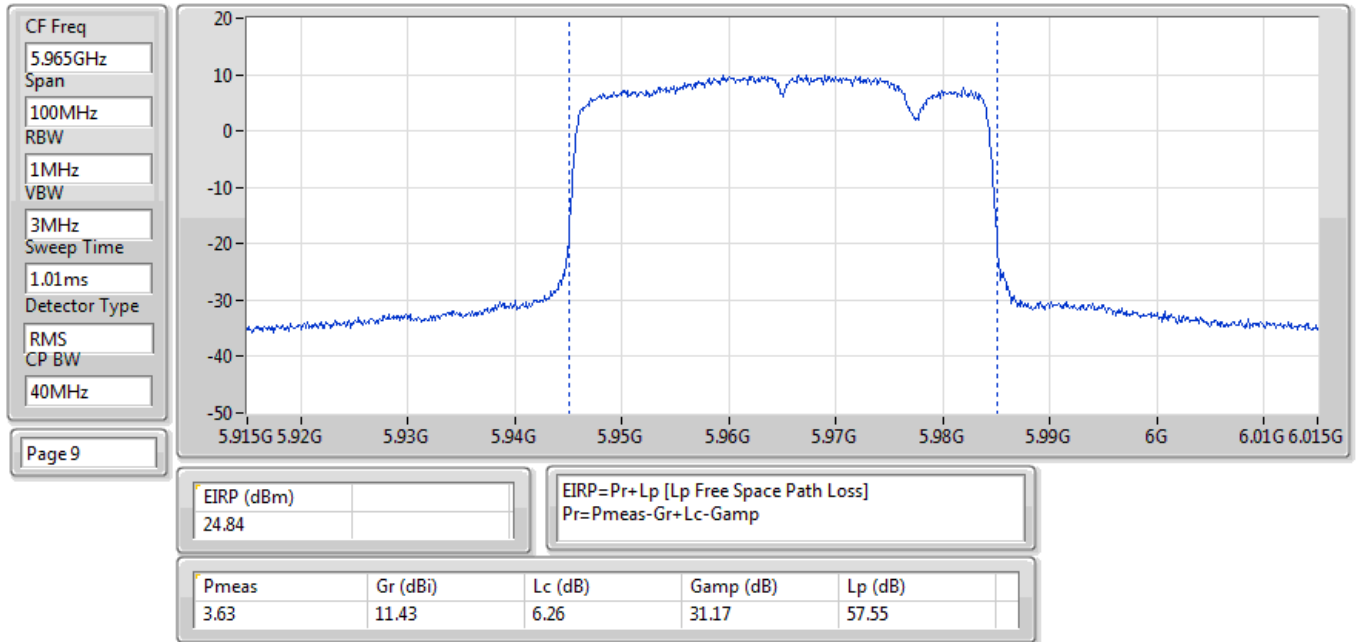
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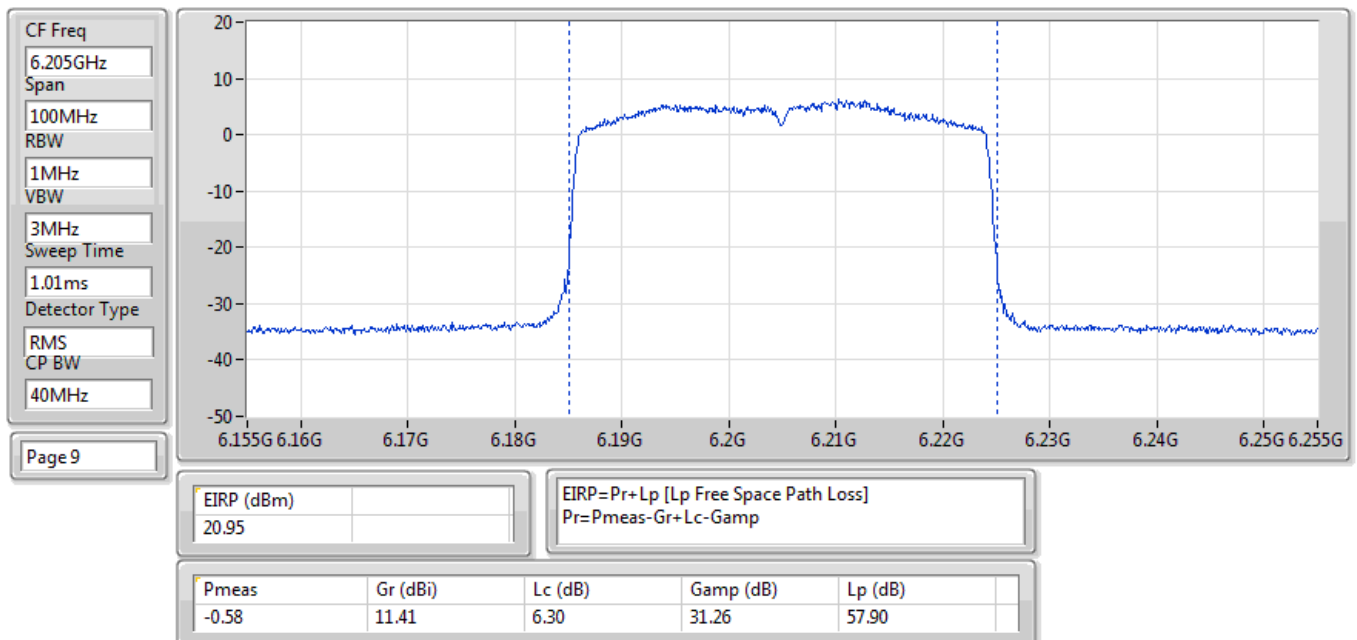
EIRP;Band:6.7G;ax20,BF;BWch:20MHz;Nss:1,(M3);Nant:2;Ch:6855MHz;TX



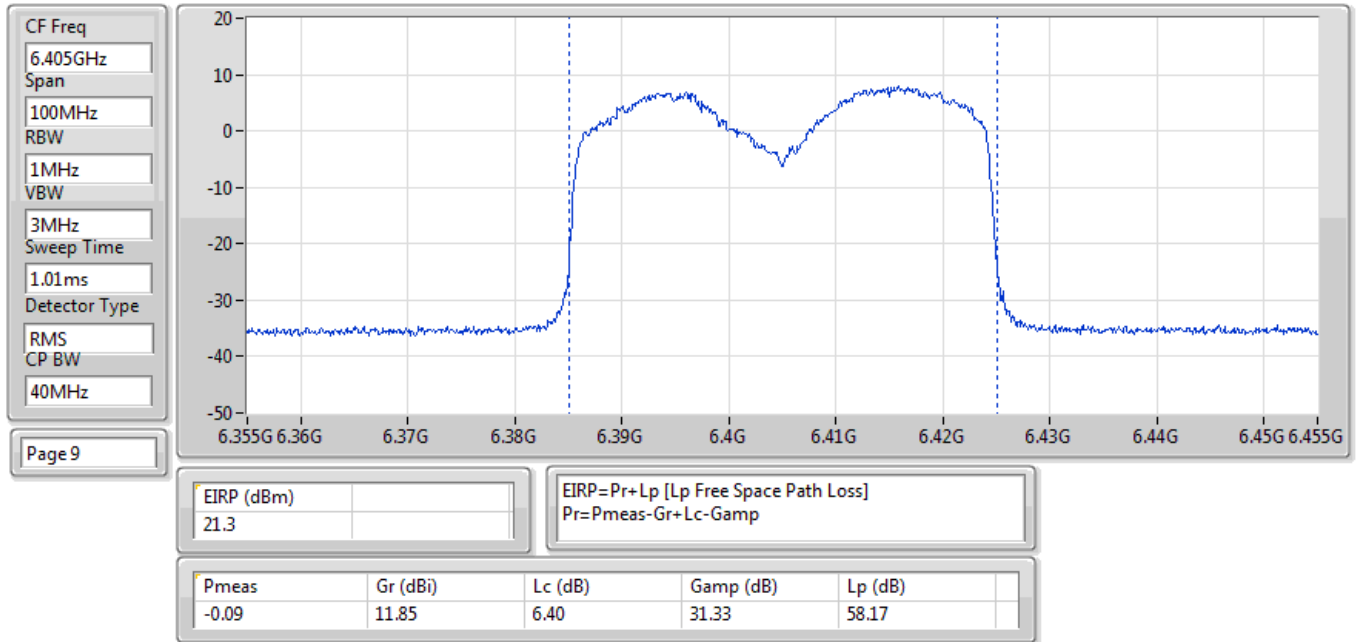
EIRP;Band:6.2G;ax40,BF;BWch:40MHz;Nss:1,(M3);Nant:2;Ch:5965MHz;TX



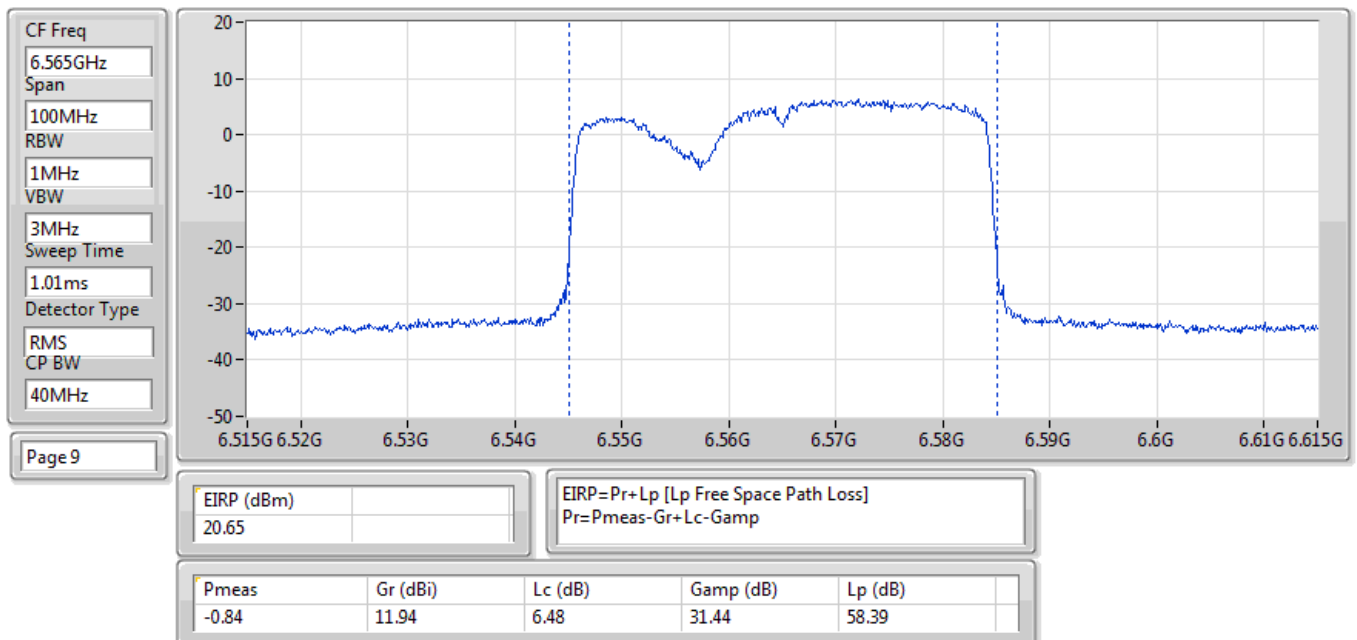
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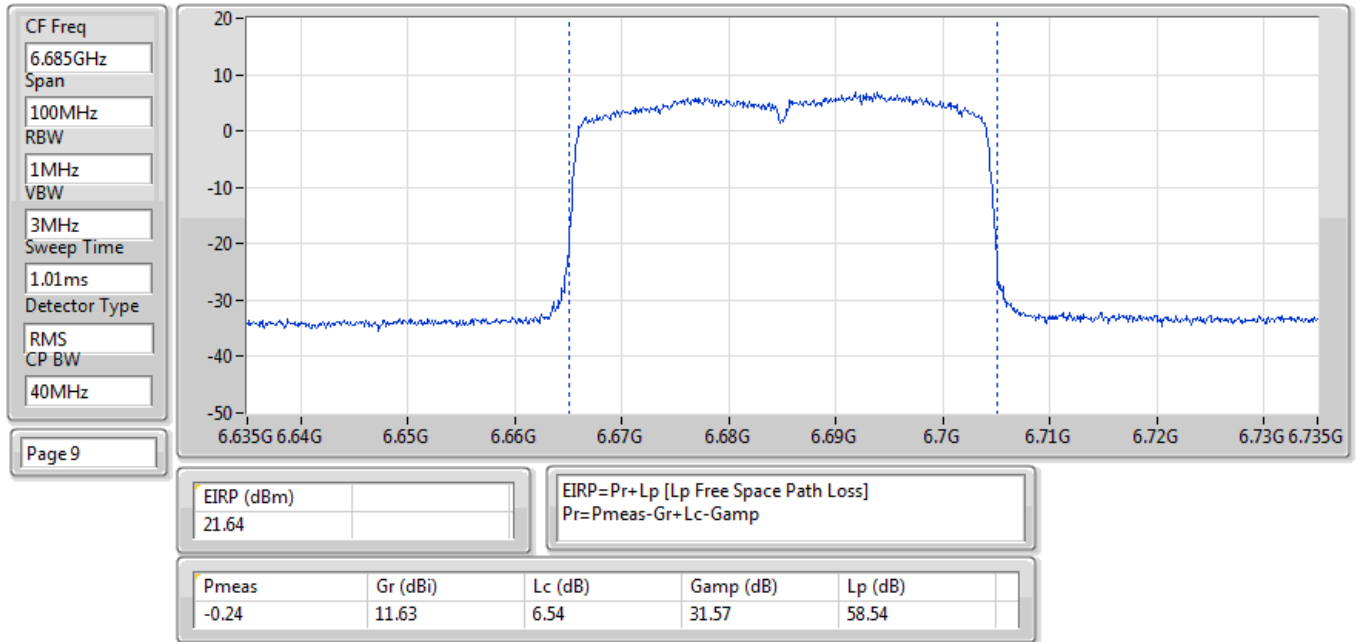
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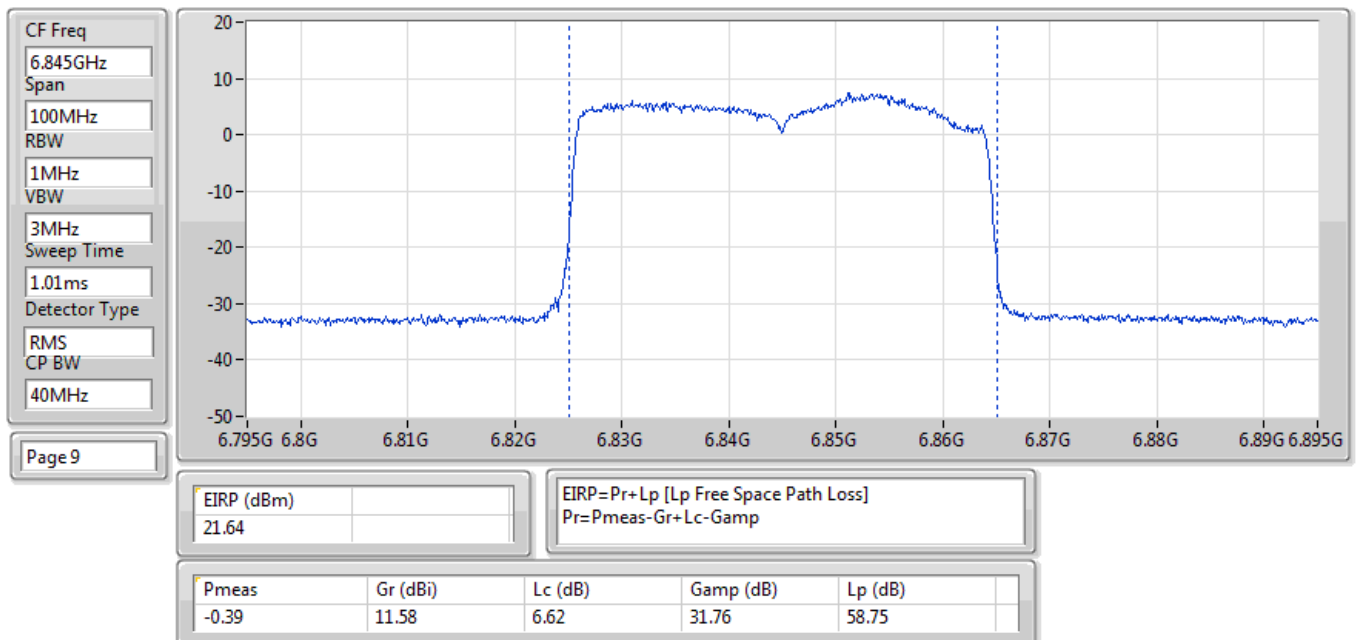
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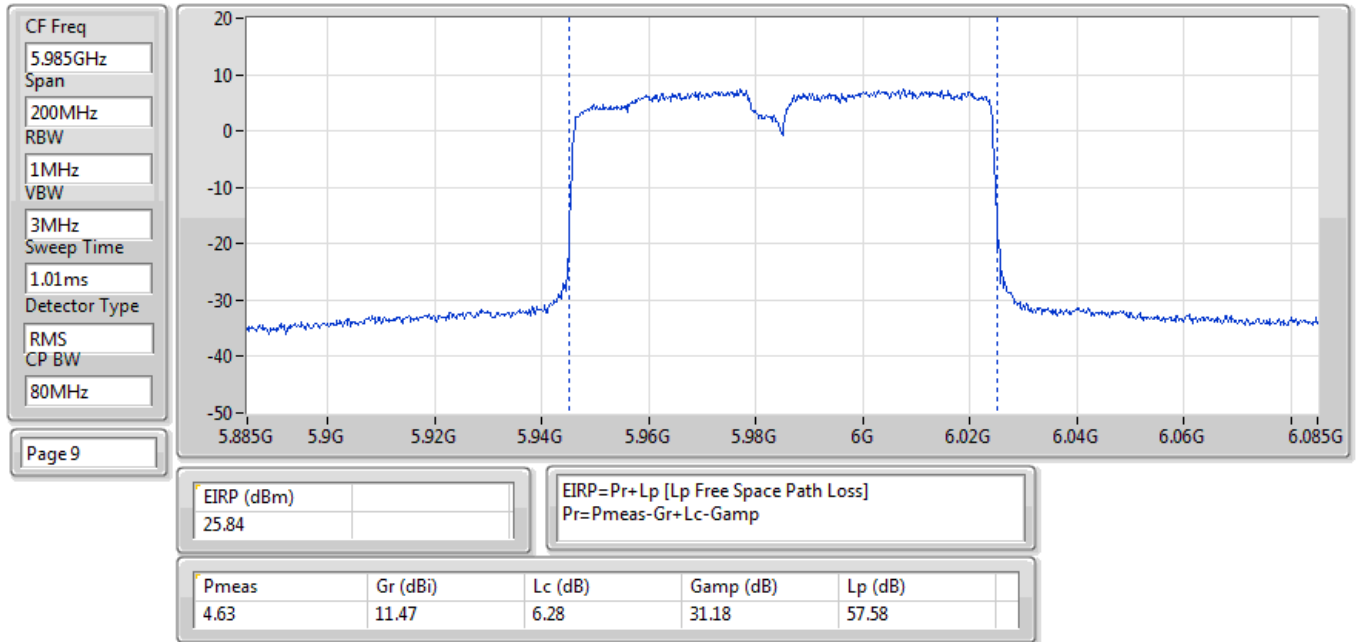
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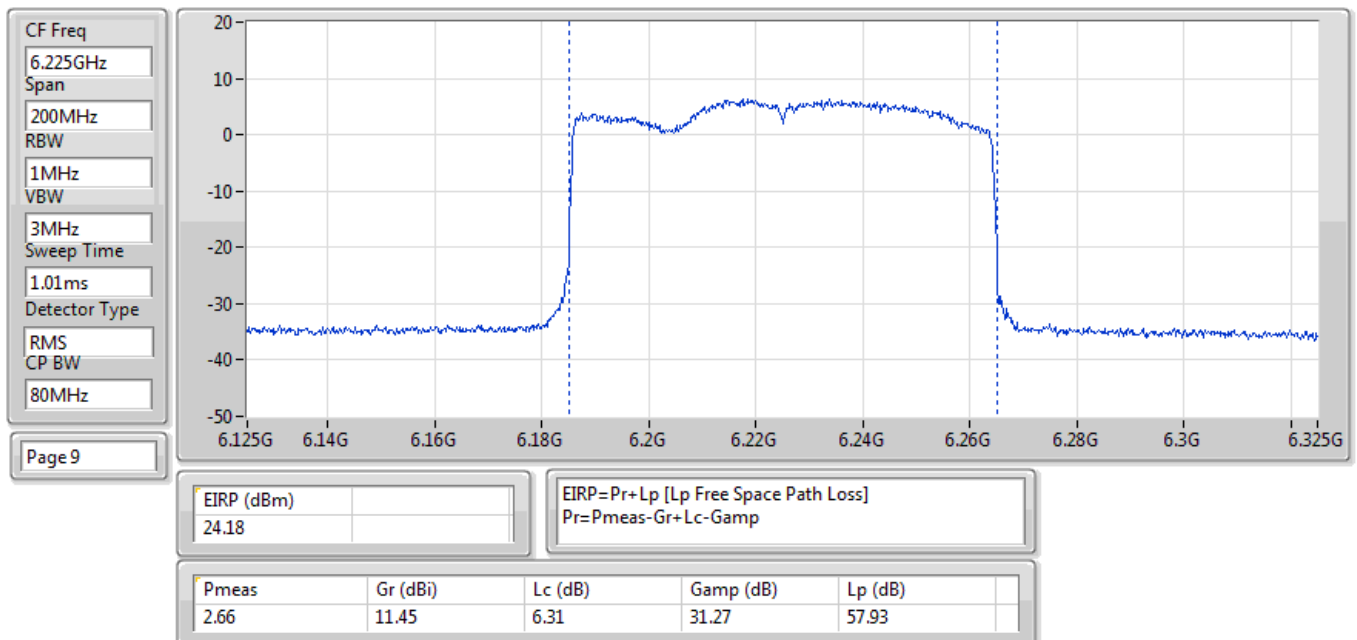
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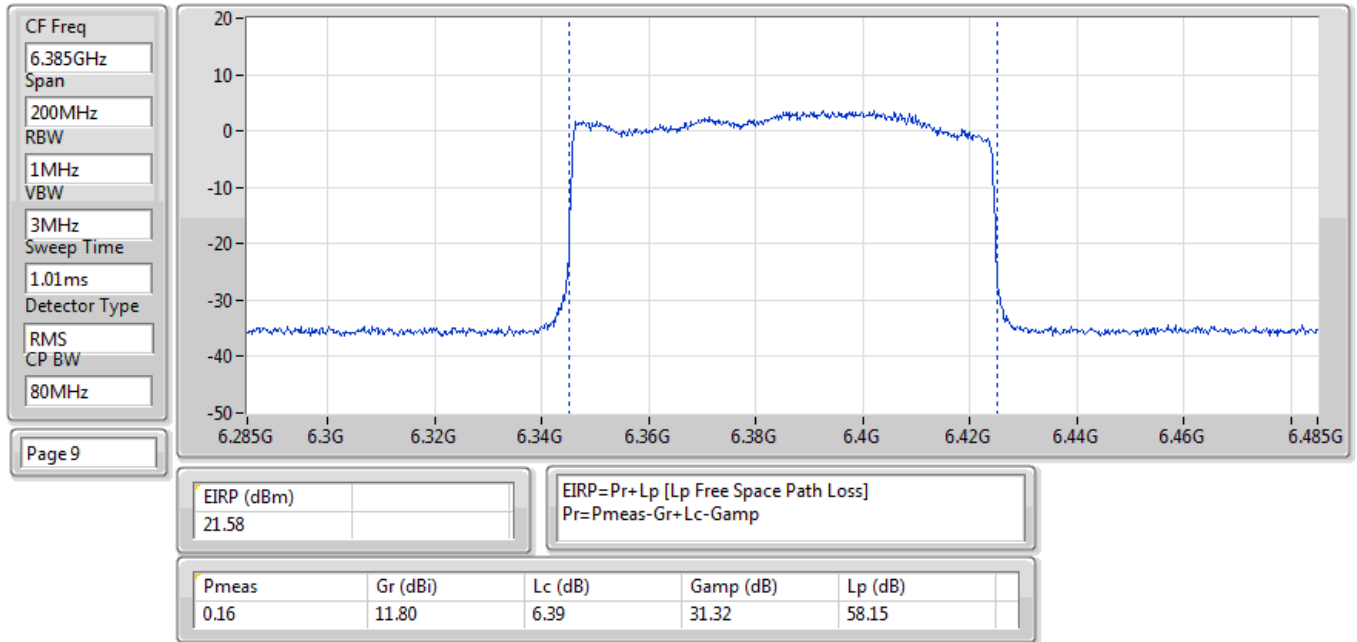
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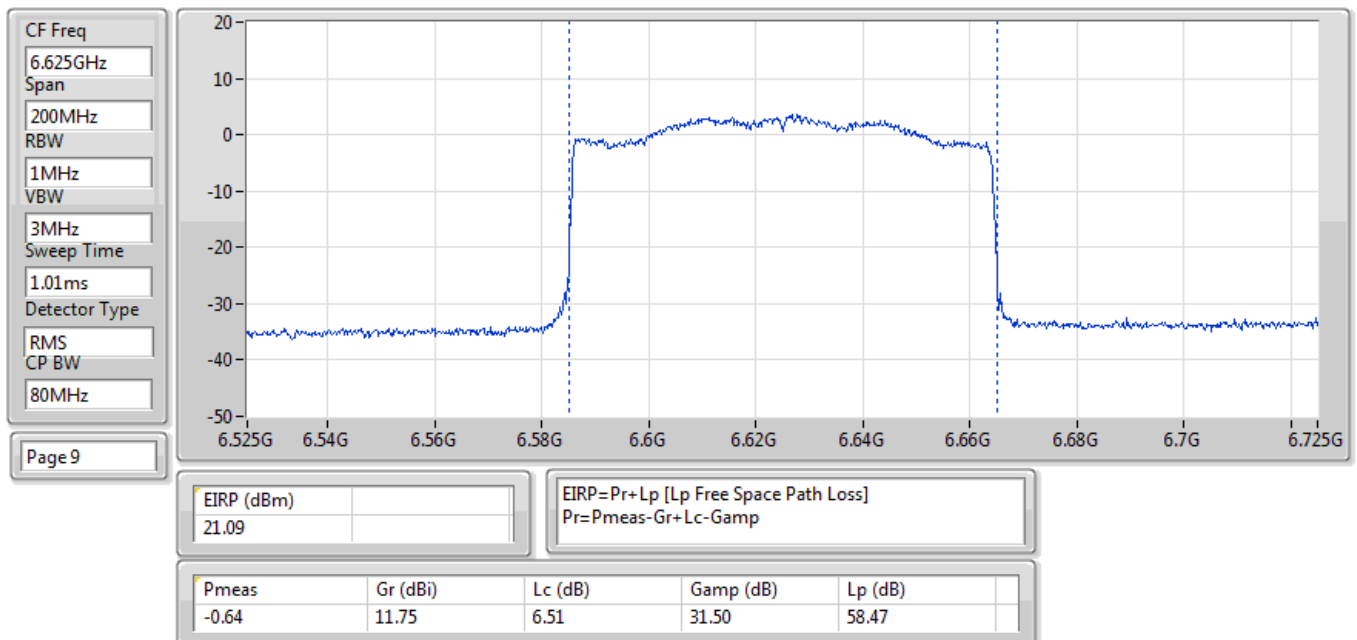
EIRP;Band:6.2G;ax80,BF;BWch:80MHz;Nss:1,(M3);Nant:2;Ch:6225MHz;TX



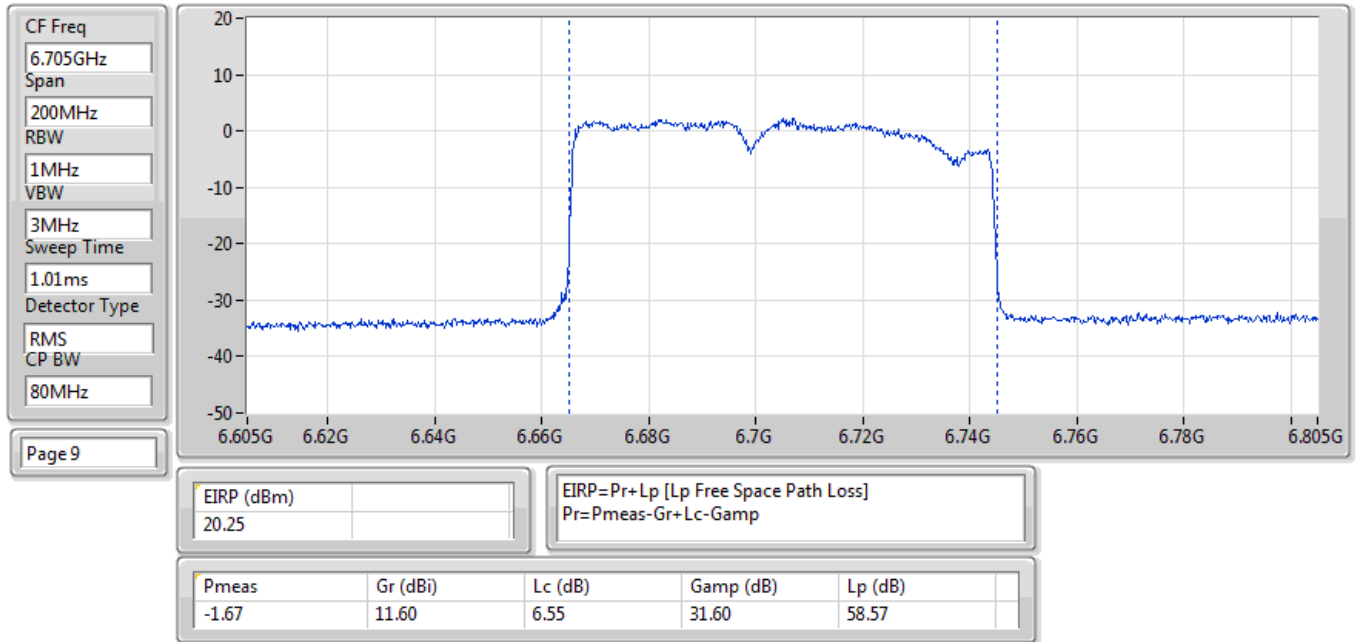
EIRP;Band:6.2G;ax80,BF;BWch:80MHz;Nss:1,(M3);Nant:2;Ch:6385MHz;TX



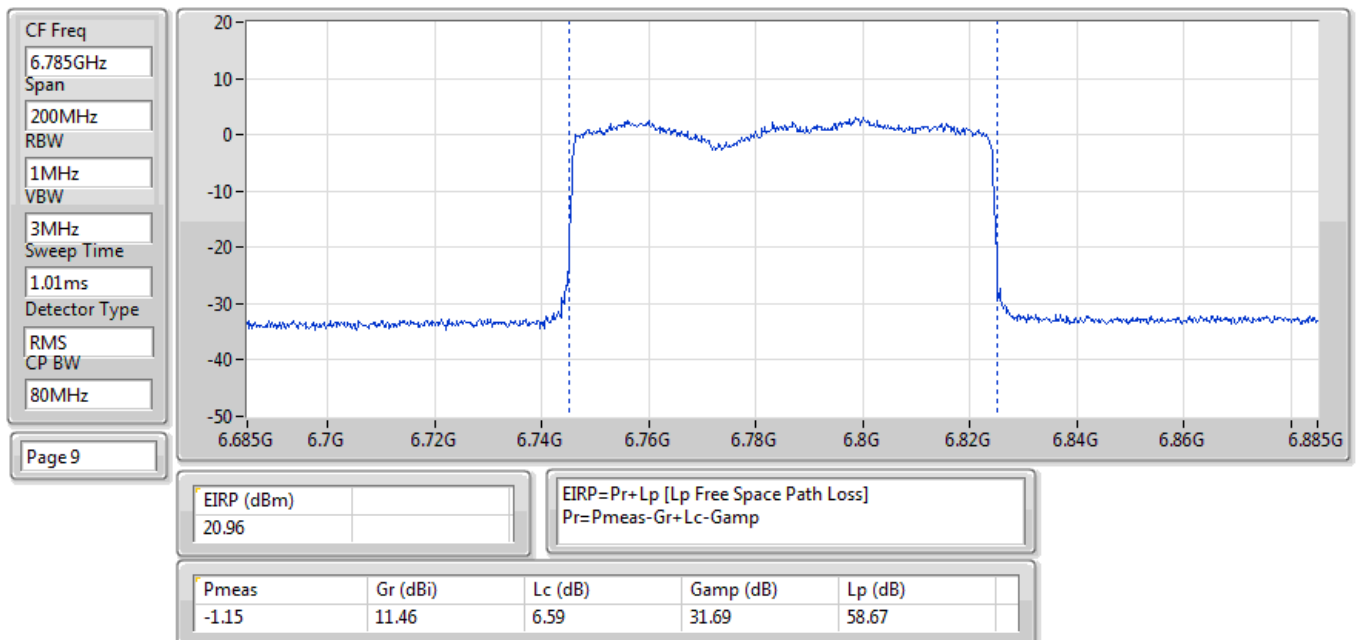
EIRP;Band:6.7G;ax80,BF;BWch:80MHz;Nss:1,(M3);Nant:2;Ch:6625MHz;TX



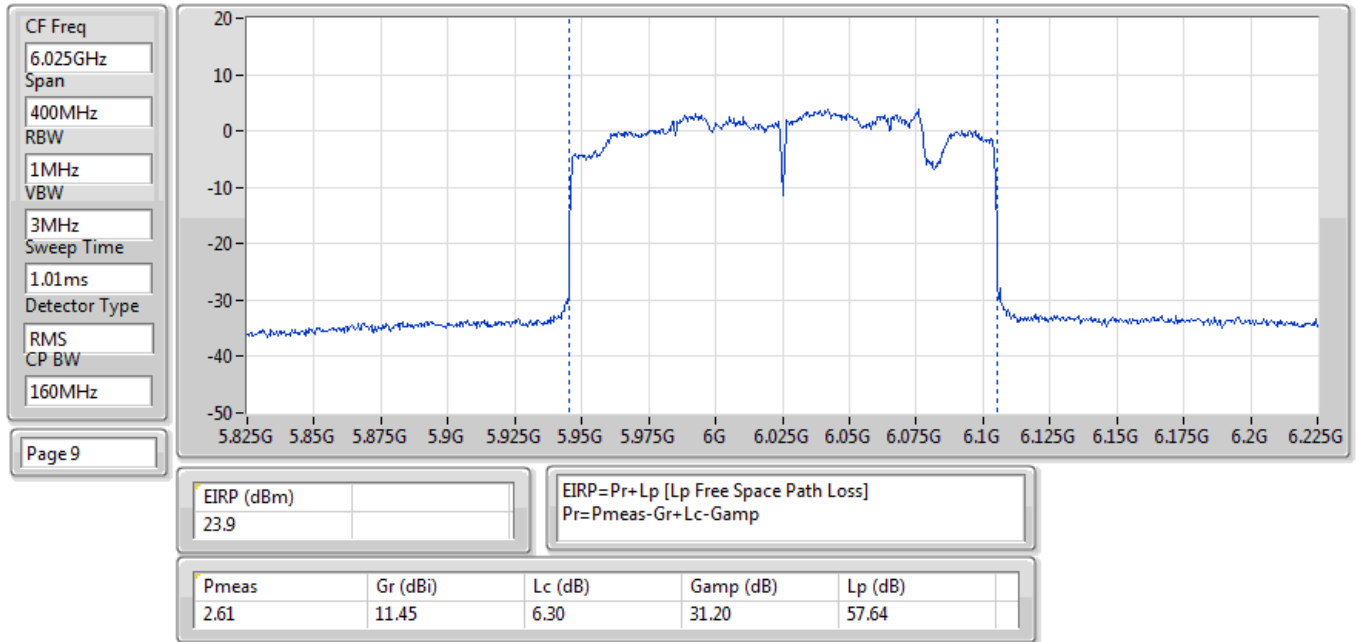
EIRP;Band:6.7G;ax80,BF;BWch:80MHz;Nss:1,(M3);Nant:2;Ch:6705MHz;TX



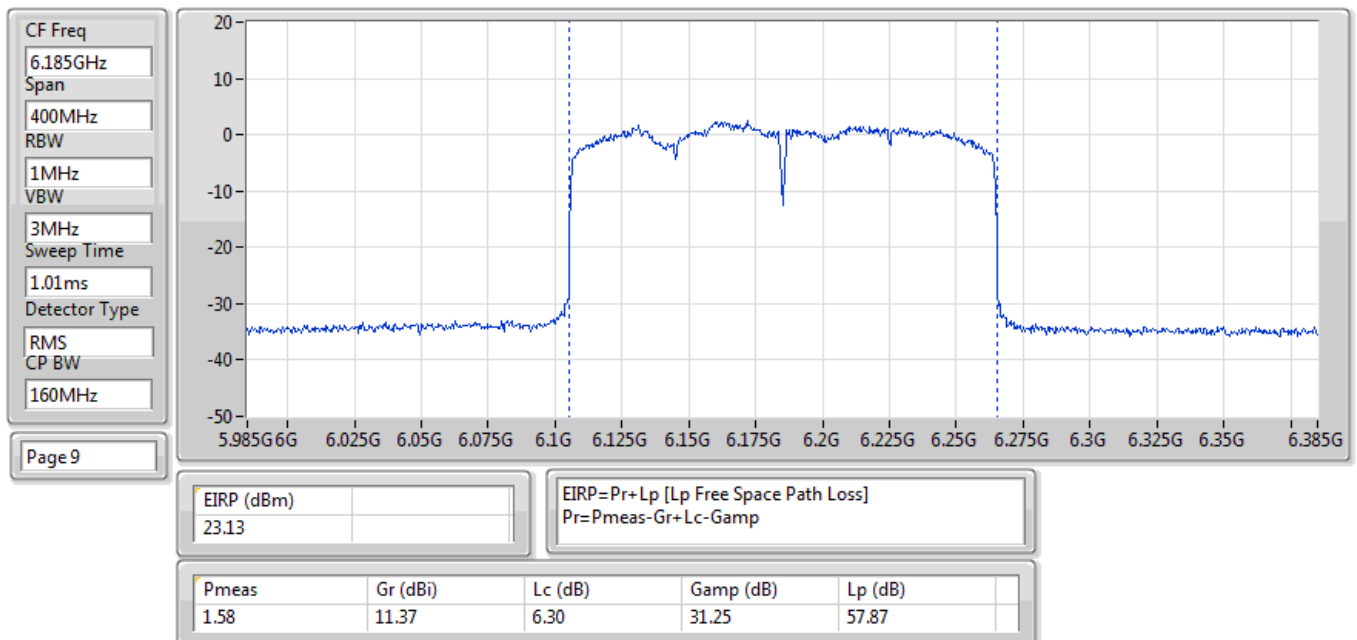
EIRP;Band:6.7G;ax80,BF;BWch:80MHz;Nss:1,(M3);Nant:2;Ch:6785MHz;TX



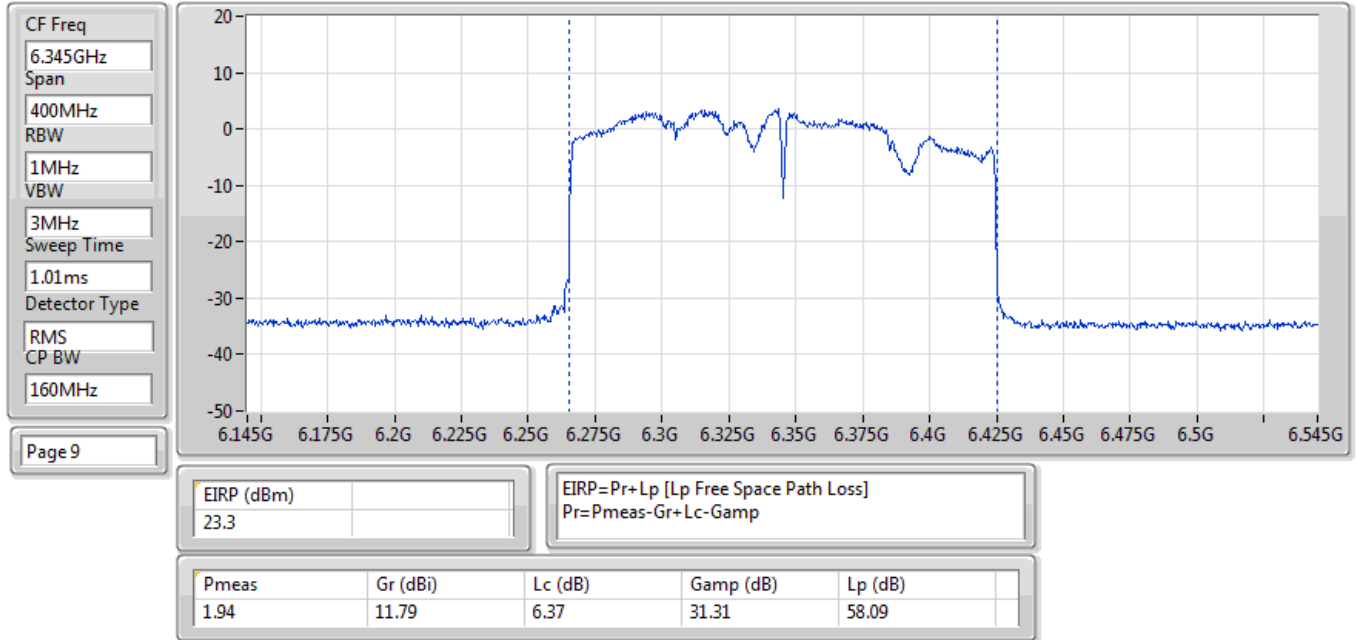
EIRP;Band:6.2G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6025MHz;TX



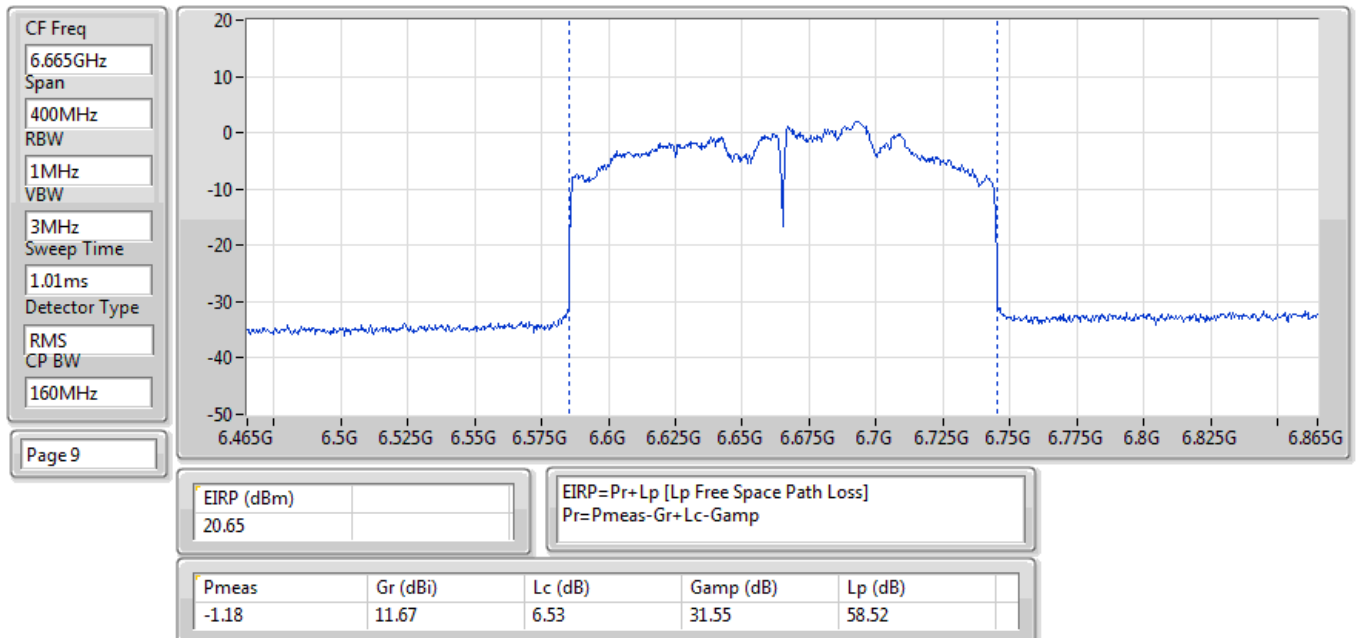
EIRP;Band:6.2G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6185MHz;TX



EIRP;Band:6.2G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6345MHz;TX



EIRP;Band:6.7G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6665MHz;TX





Average Power_Scanning Radio 3

Appendix B.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	25.46	0.35156	30.89	1.22744
6.525-6.875GHz	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	23.41	0.21928	28.91	0.77804



Average Power_Scanning Radio 3

Appendix B.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5955MHz	Pass	5.43	22.87	22.87	28.30	36.00
6195MHz	Pass	5.43	25.46	25.46	30.89	36.00
6415MHz	Pass	5.43	21.41	21.41	26.84	36.00
6535MHz	Pass	5.50	21.41	21.41	26.91	36.00
6695MHz	Pass	5.50	23.41	23.41	28.91	36.00
6855MHz	Pass	5.50	21.06	21.06	26.56	36.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	EIRP PD (dBm/RBW)
5.925-6.425GHz	-
802.11ax HEW20_Nss1,(MCS0)_1TX	16.45
802.11ax HEW20_Nss1,(MCS0)_2TX	20.63
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	13.46
802.11ax HEW40_Nss1,(MCS0)_1TX	13.45
802.11ax HEW40_Nss1,(MCS0)_2TX	17.57
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	10.92
802.11ax HEW80_Nss1,(MCS0)_1TX	10.63
802.11ax HEW80_Nss1,(MCS0)_2TX	13.94
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	8.20
802.11ax HEW160_Nss1,(MCS0)_1TX	7.13
802.11ax HEW160_Nss1,(MCS0)_2TX	11.65
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	5.23
6.525-6.875GHz	-
802.11ax HEW20_Nss1,(MCS0)_1TX	14.89
802.11ax HEW20_Nss1,(MCS0)_2TX	17.49
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	12.95
802.11ax HEW40_Nss1,(MCS0)_1TX	13.14
802.11ax HEW40_Nss1,(MCS0)_2TX	16.00
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	9.39
802.11ax HEW80_Nss1,(MCS0)_1TX	9.78
802.11ax HEW80_Nss1,(MCS0)_2TX	12.20
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	5.44
802.11ax HEW160_Nss1,(MCS0)_1TX	7.29
802.11ax HEW160_Nss1,(MCS0)_2TX	8.62
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	1.41

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

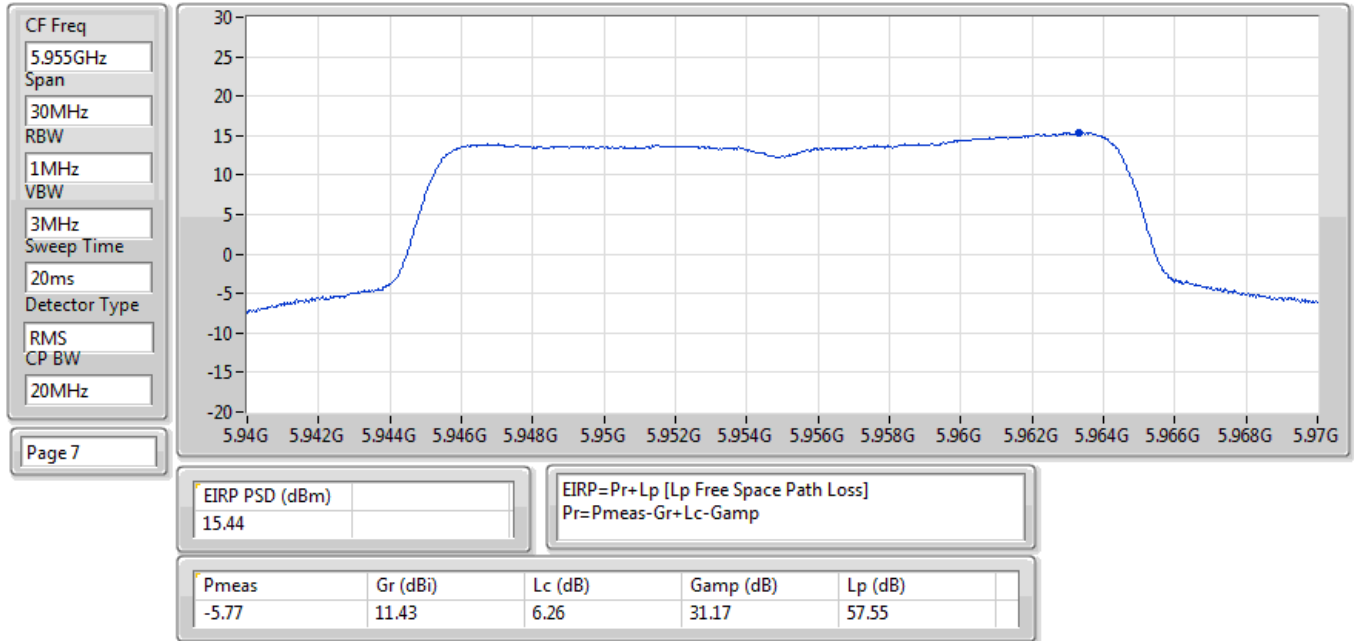
Result

Mode	Result	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-
5955MHz	Pass	15.44	23.00
6195MHz	Pass	16.45	23.00
6415MHz	Pass	14.40	23.00
6535MHz	Pass	14.65	23.00
6695MHz	Pass	14.89	23.00
6855MHz	Pass	14.56	23.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-
5965MHz	Pass	9.74	23.00
6205MHz	Pass	13.45	23.00
6405MHz	Pass	11.87	23.00
6565MHz	Pass	12.72	23.00
6685MHz	Pass	13.14	23.00
6845MHz	Pass	11.98	23.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-
5985MHz	Pass	6.56	23.00
6225MHz	Pass	10.63	23.00
6385MHz	Pass	9.15	23.00
6625MHz	Pass	9.78	23.00
6705MHz	Pass	8.96	23.00
6785MHz	Pass	8.83	23.00
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-
6025MHz	Pass	4.80	23.00
6185MHz	Pass	7.13	23.00
6345MHz	Pass	6.89	23.00
6665MHz	Pass	7.29	23.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	16.91	23.00
6195MHz	Pass	20.63	23.00
6415MHz	Pass	18.21	23.00
6535MHz	Pass	17.49	23.00
6695MHz	Pass	17.14	23.00
6855MHz	Pass	16.48	23.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	12.97	23.00
6205MHz	Pass	17.57	23.00
6405MHz	Pass	14.86	23.00
6565MHz	Pass	16.00	23.00
6685MHz	Pass	14.23	23.00
6845MHz	Pass	13.51	23.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	9.70	23.00
6225MHz	Pass	13.94	23.00
6385MHz	Pass	10.89	23.00
6625MHz	Pass	11.43	23.00
6705MHz	Pass	11.94	23.00
6785MHz	Pass	12.20	23.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	8.13	23.00
6185MHz	Pass	11.65	23.00
6345MHz	Pass	8.02	23.00
6665MHz	Pass	8.62	23.00
802.11ax HEW20-BF_Nss1,(MCS3)_2TX	-	-	-
5955MHz	Pass	12.13	23.00
6195MHz	Pass	13.46	23.00

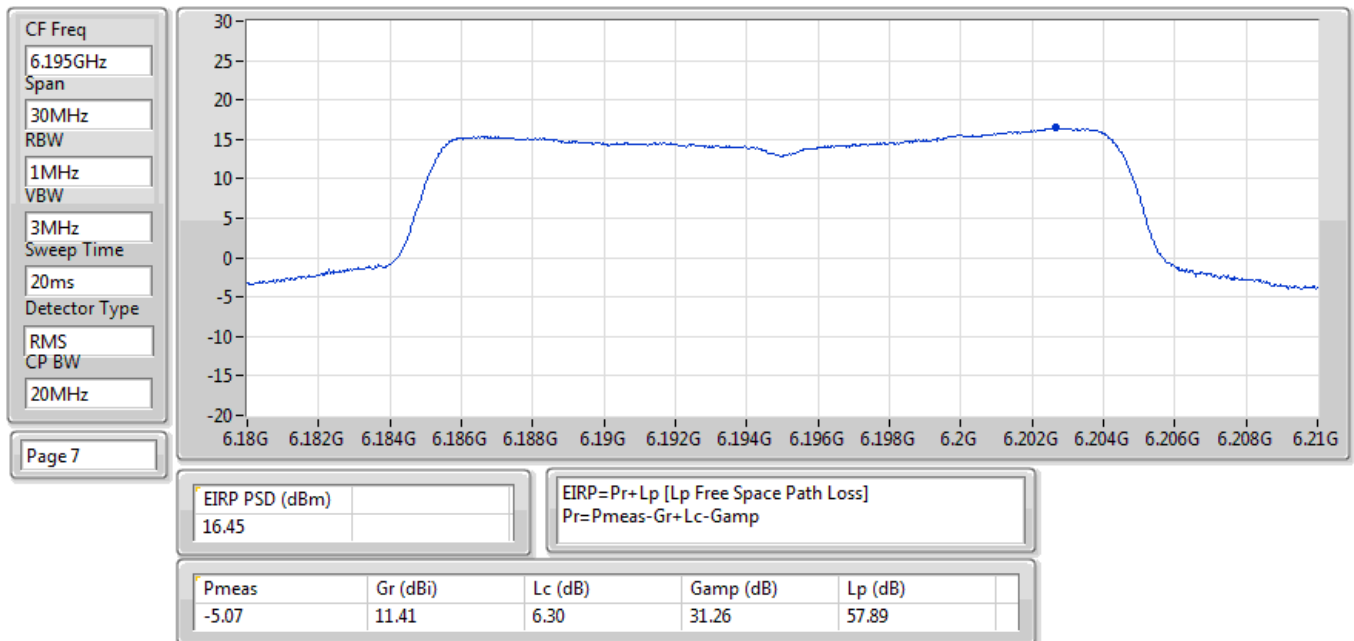
Mode	Result	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
6415MHz	Pass	12.05	23.00
6535MHz	Pass	12.08	23.00
6695MHz	Pass	12.40	23.00
6855MHz	Pass	12.95	23.00
802.11ax HEW40-BF_Nss1,(MCS3)_2TX	-	-	-
5965MHz	Pass	10.92	23.00
6205MHz	Pass	7.90	23.00
6405MHz	Pass	9.18	23.00
6565MHz	Pass	8.74	23.00
6685MHz	Pass	9.39	23.00
6845MHz	Pass	8.18	23.00
802.11ax HEW80-BF_Nss1,(MCS3)_2TX	-	-	-
5985MHz	Pass	8.20	23.00
6225MHz	Pass	7.74	23.00
6385MHz	Pass	6.00	23.00
6625MHz	Pass	2.20	23.00
6705MHz	Pass	3.84	23.00
6785MHz	Pass	5.44	23.00
802.11ax HEW160-BF_Nss1,(MCS3)_2TX	-	-	-
6025MHz	Pass	3.61	23.00
6185MHz	Pass	3.59	23.00
6345MHz	Pass	5.23	23.00
6665MHz	Pass	1.41	23.00

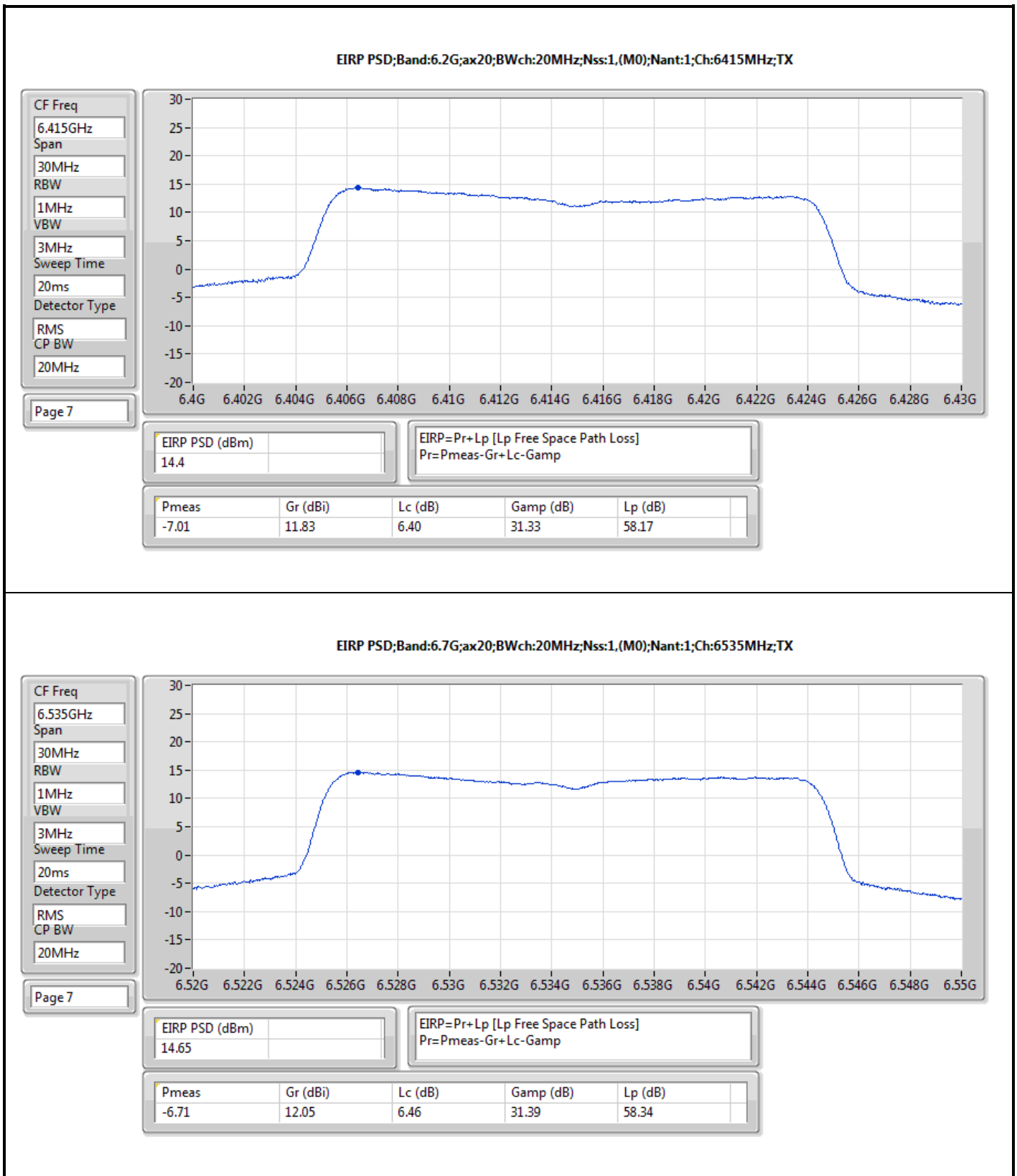
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

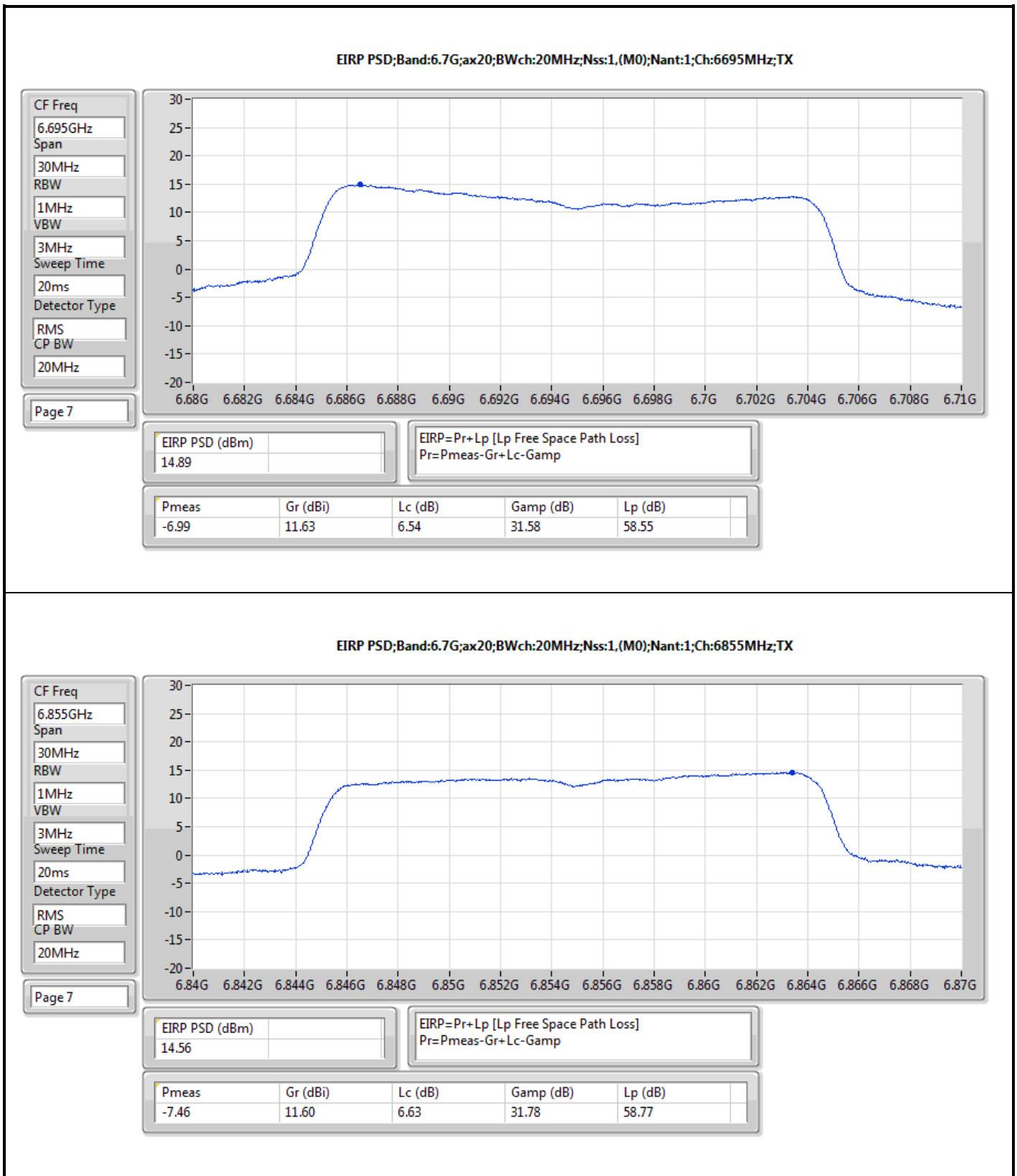
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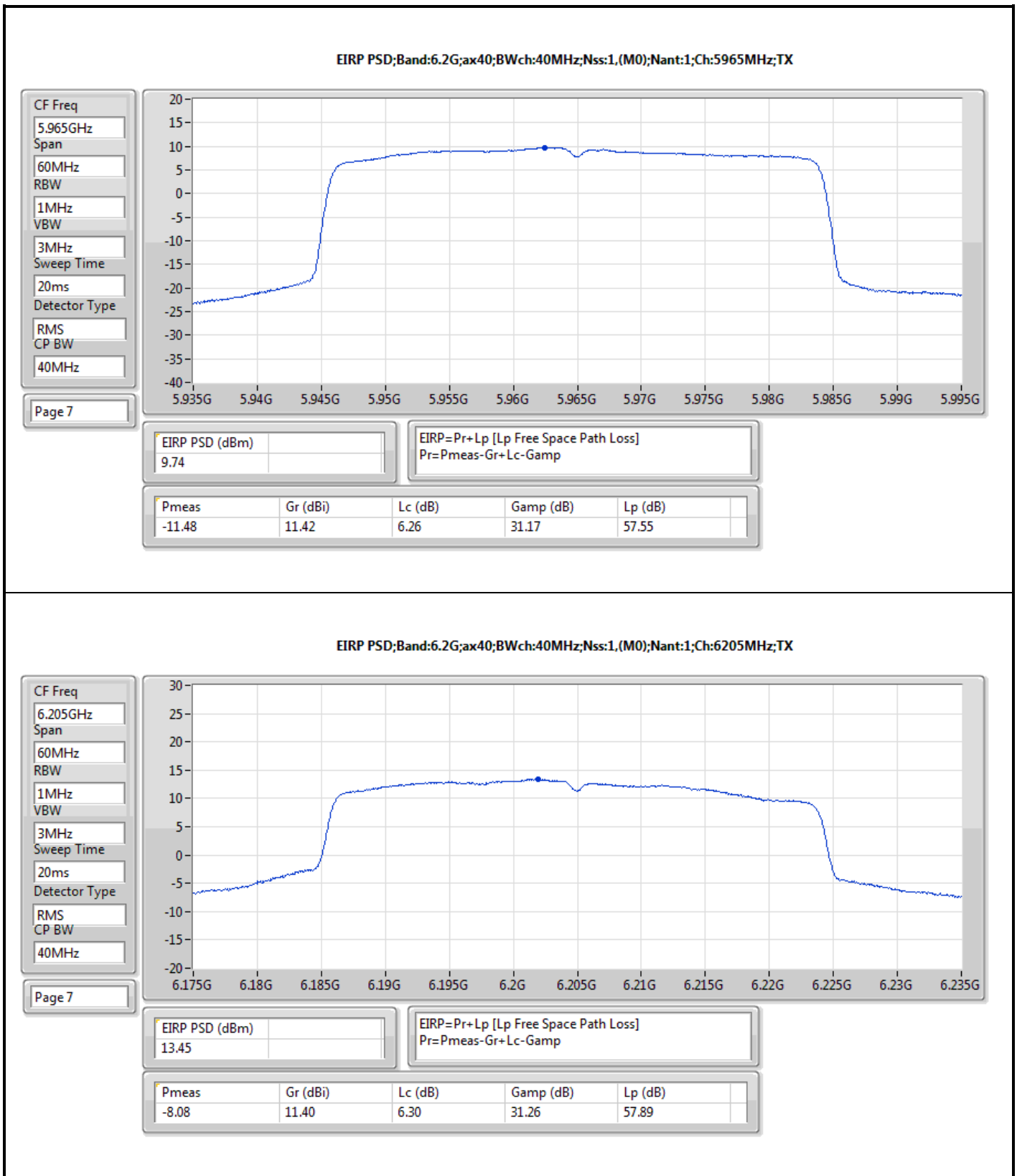


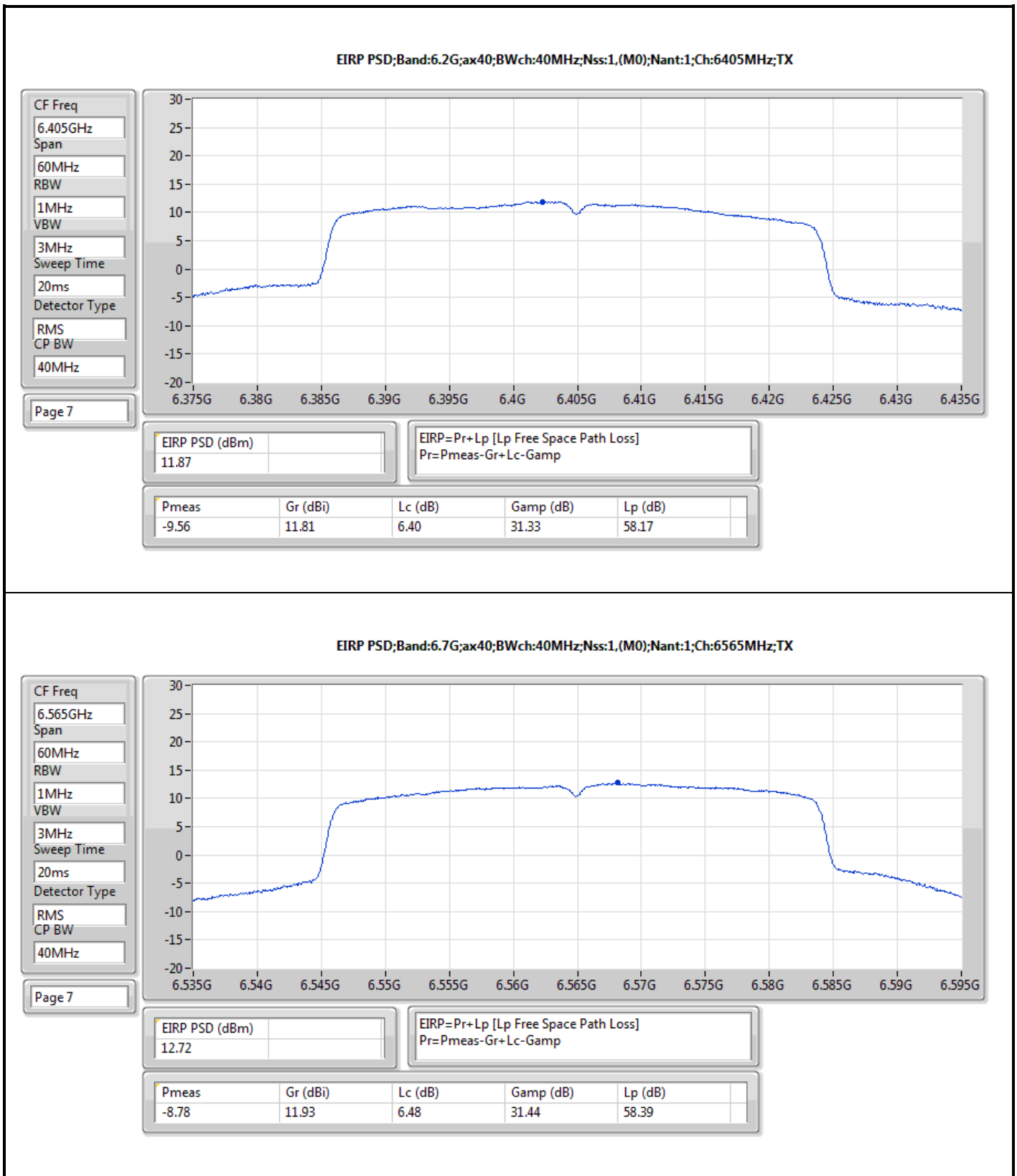
EIRP PSD;Band:6.2G;ax20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:6195MHz;TX



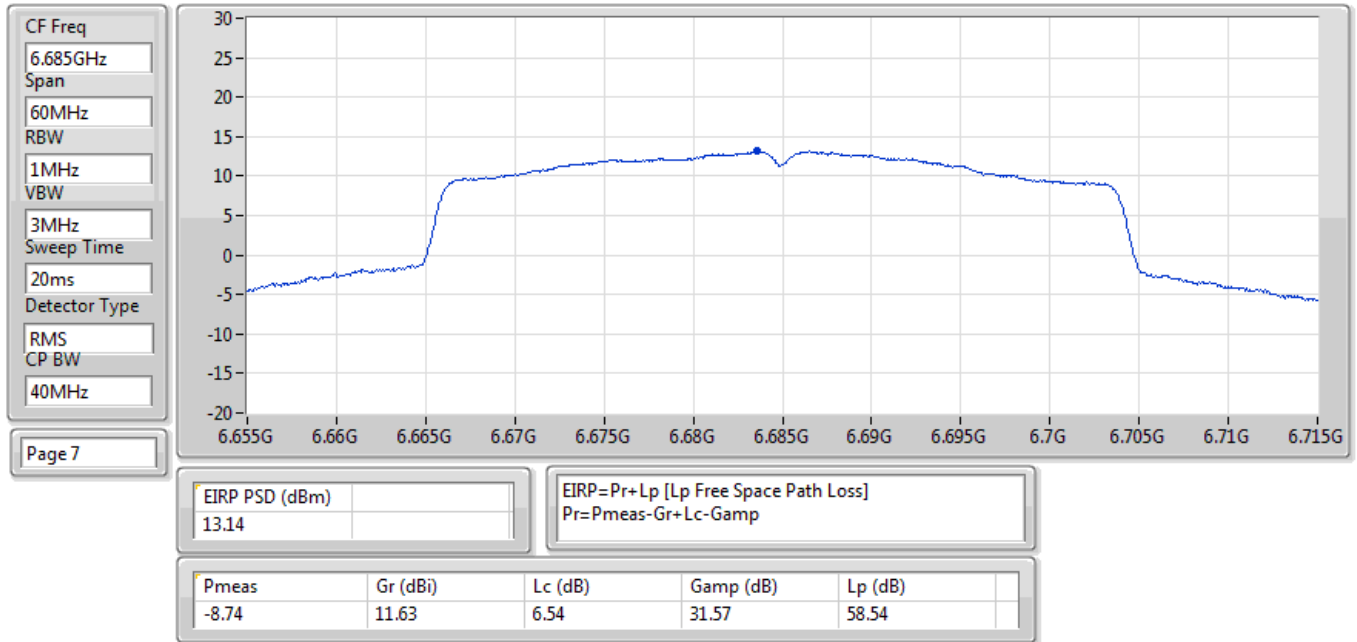




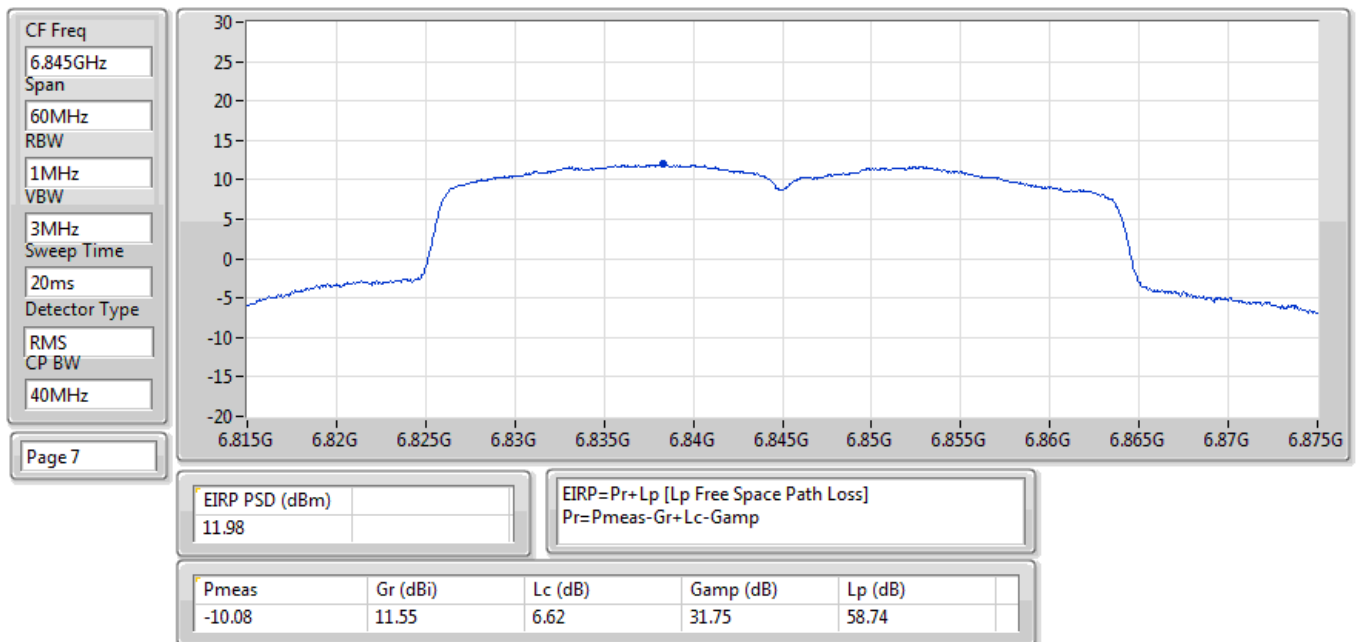




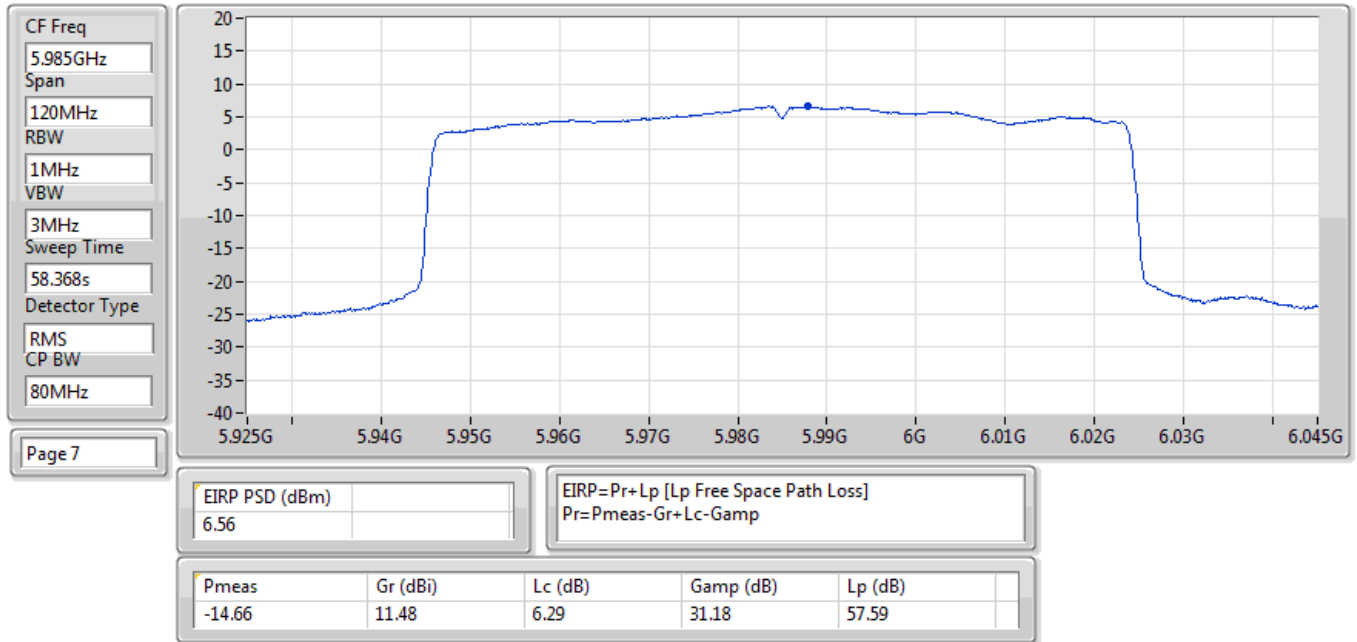
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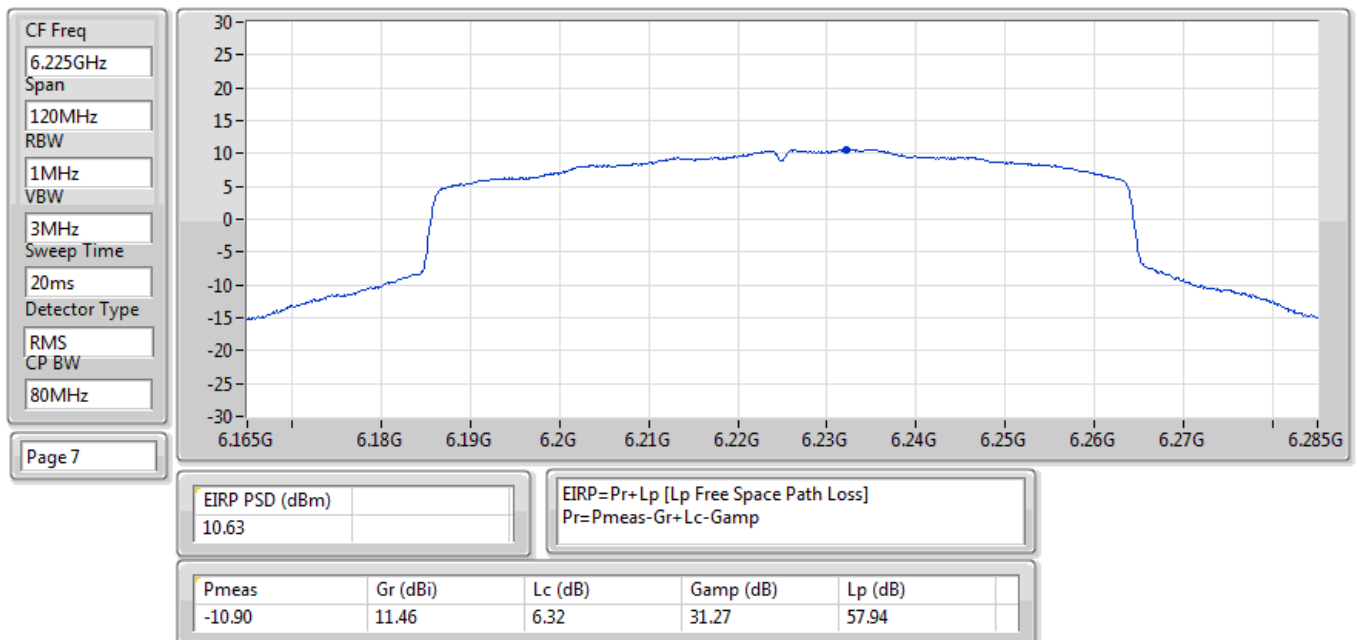
EIRP PSD;Band:6.7G;ax40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:6845MHz;TX

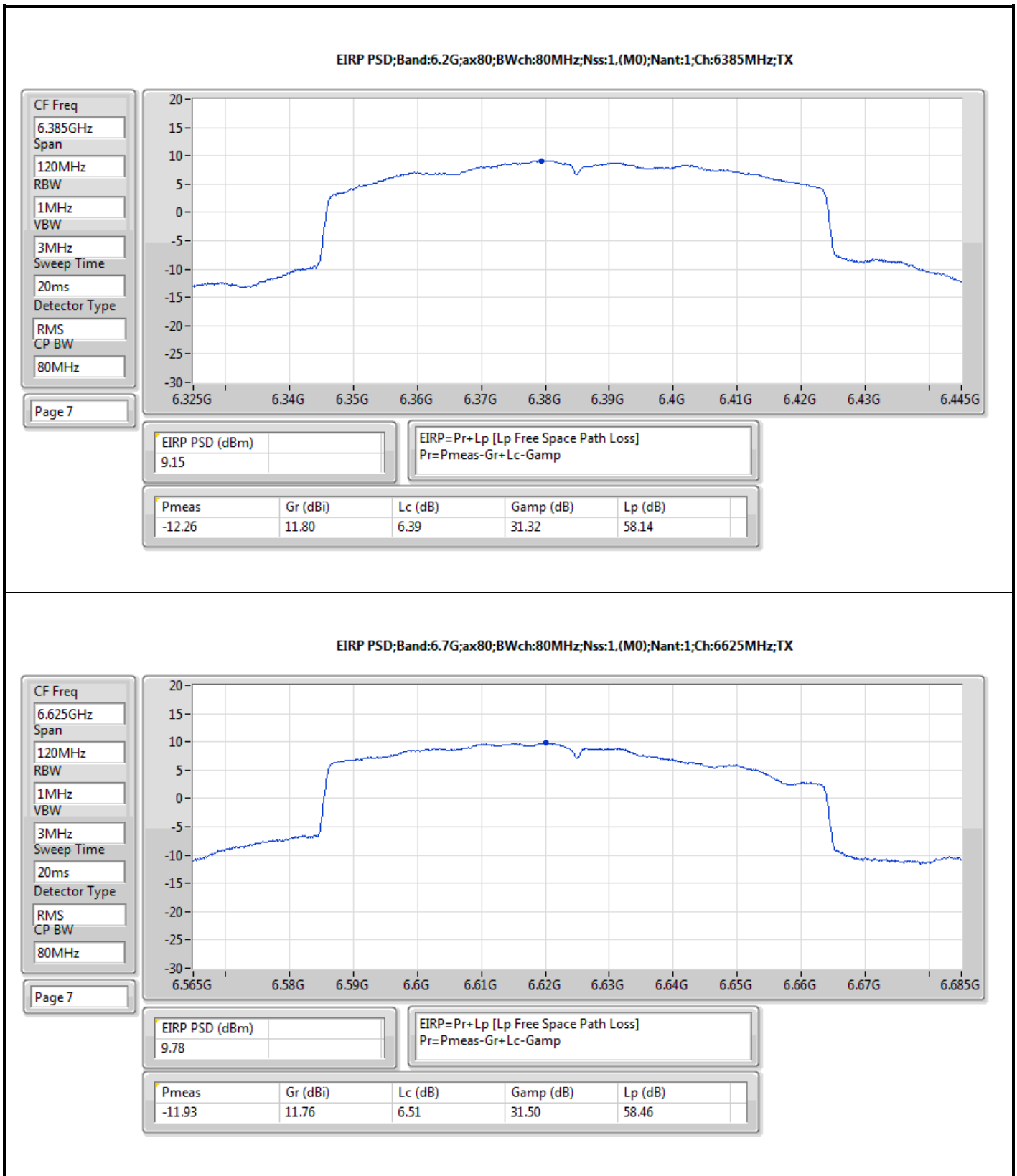


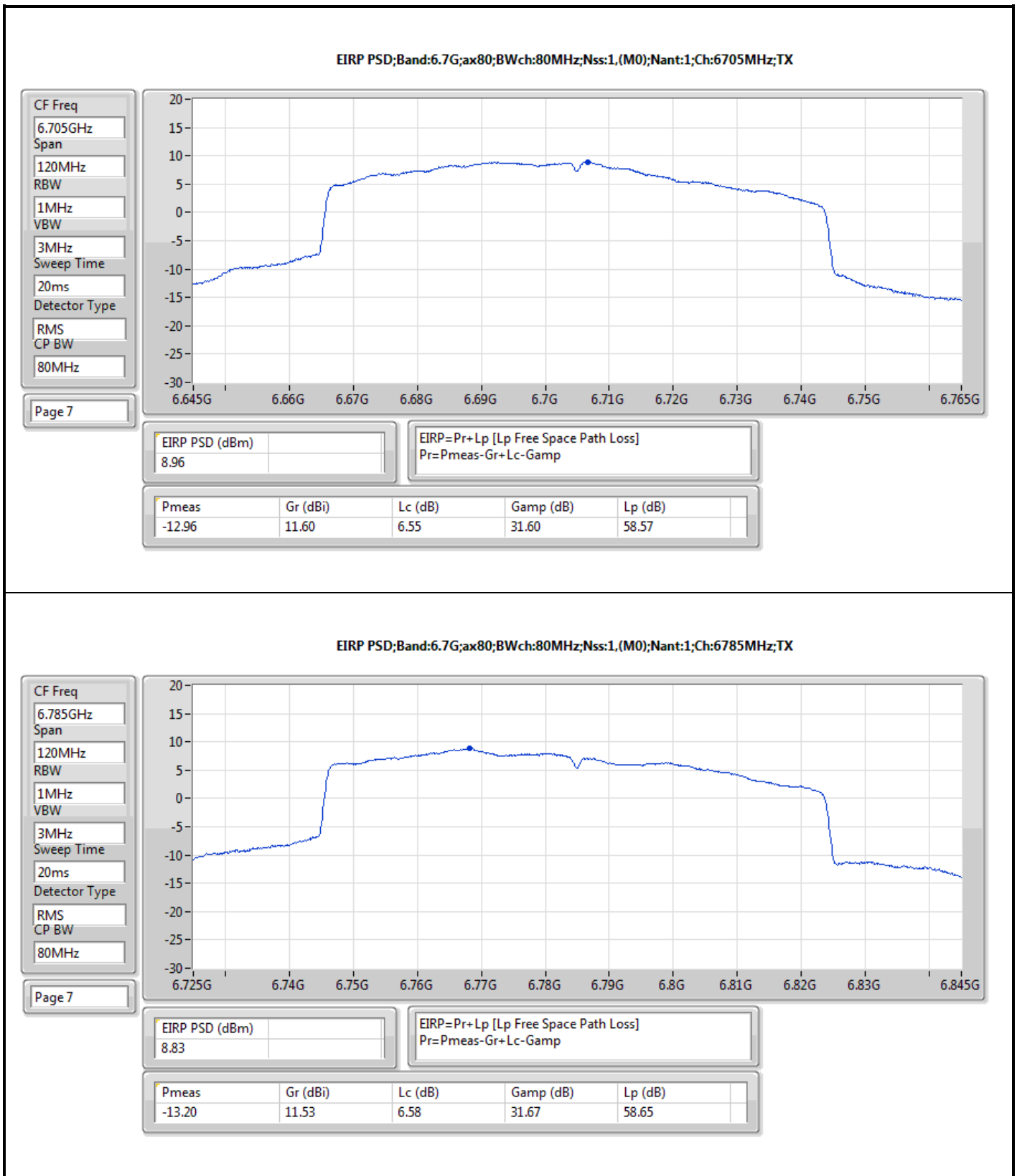
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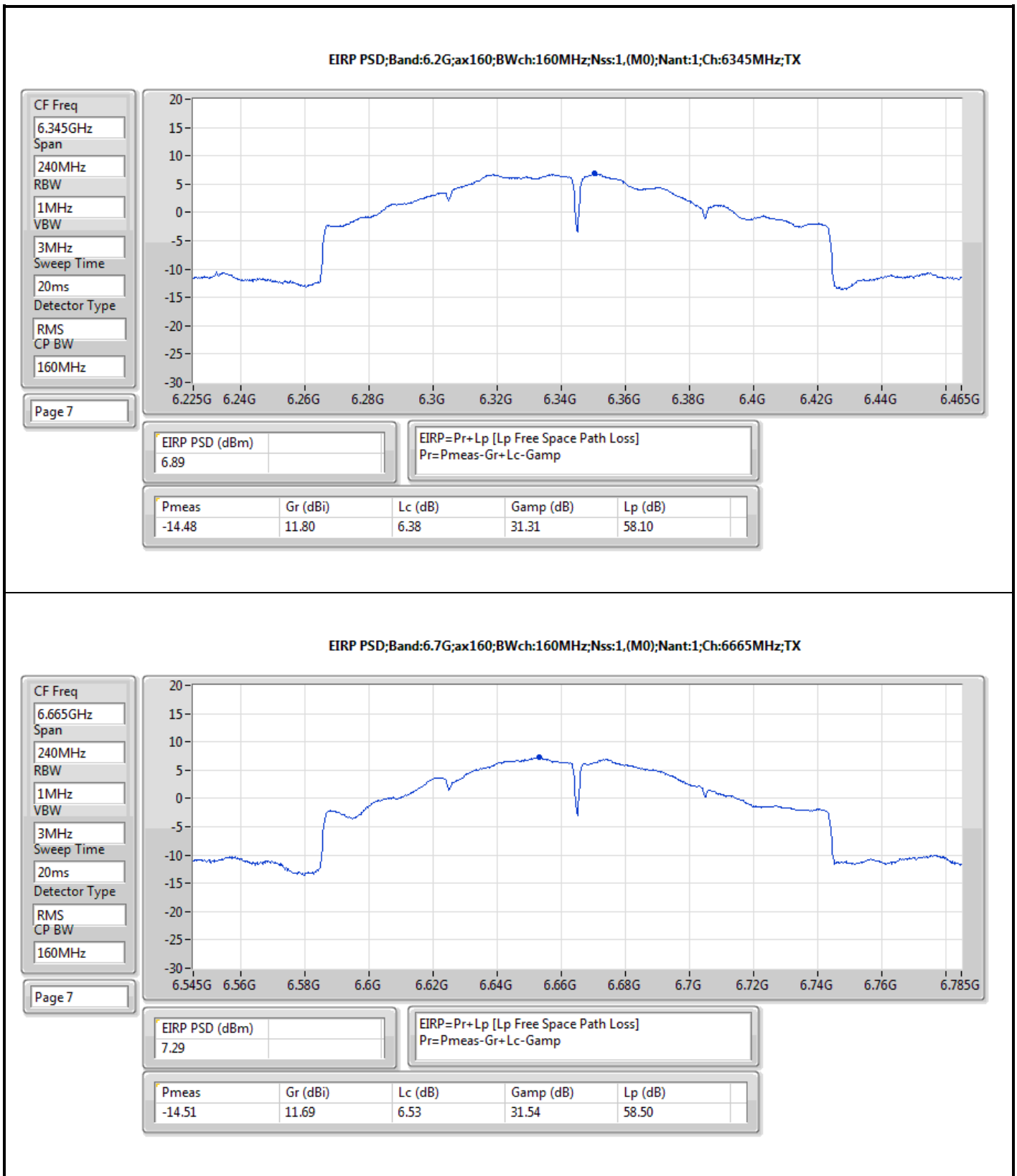
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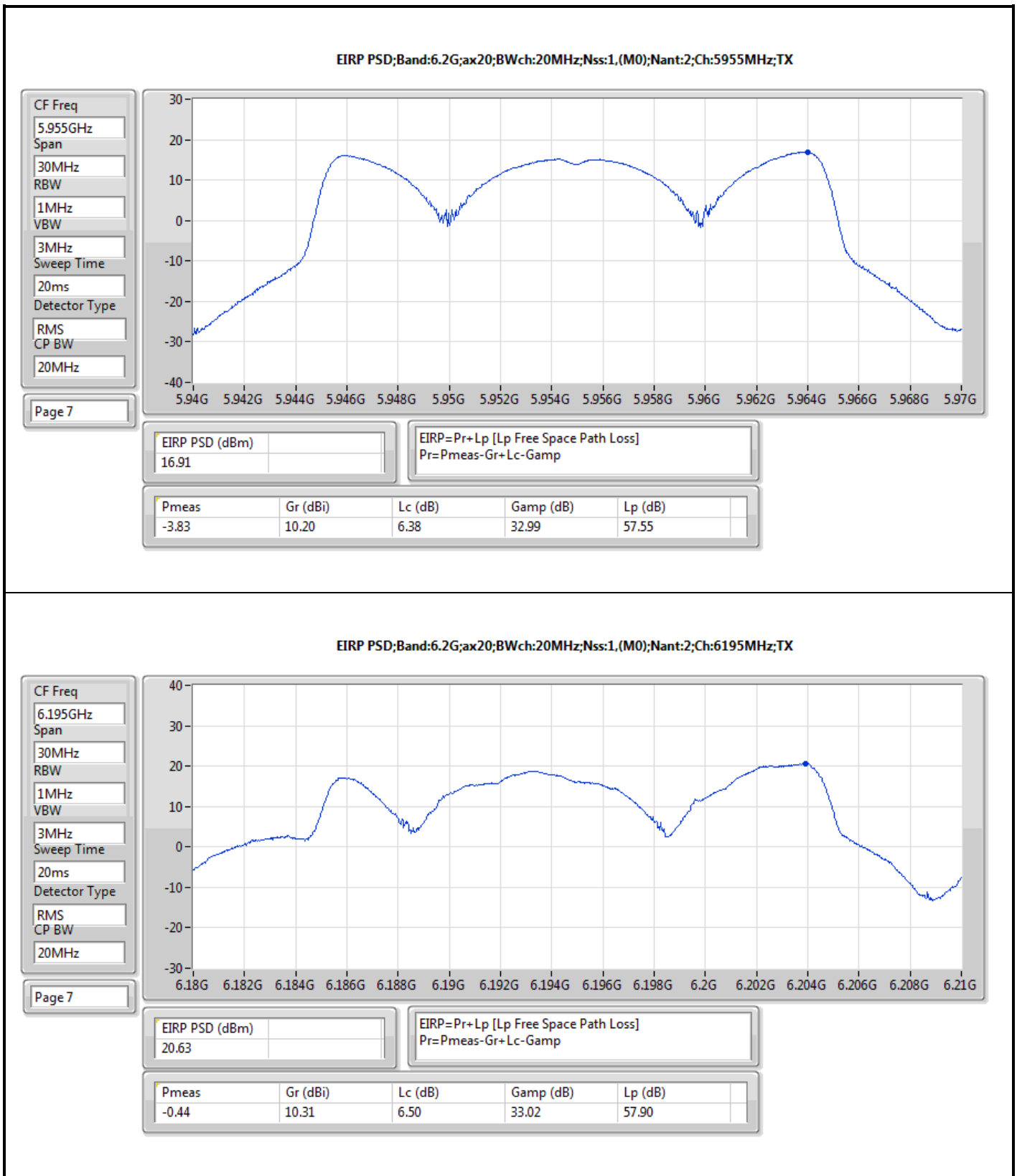


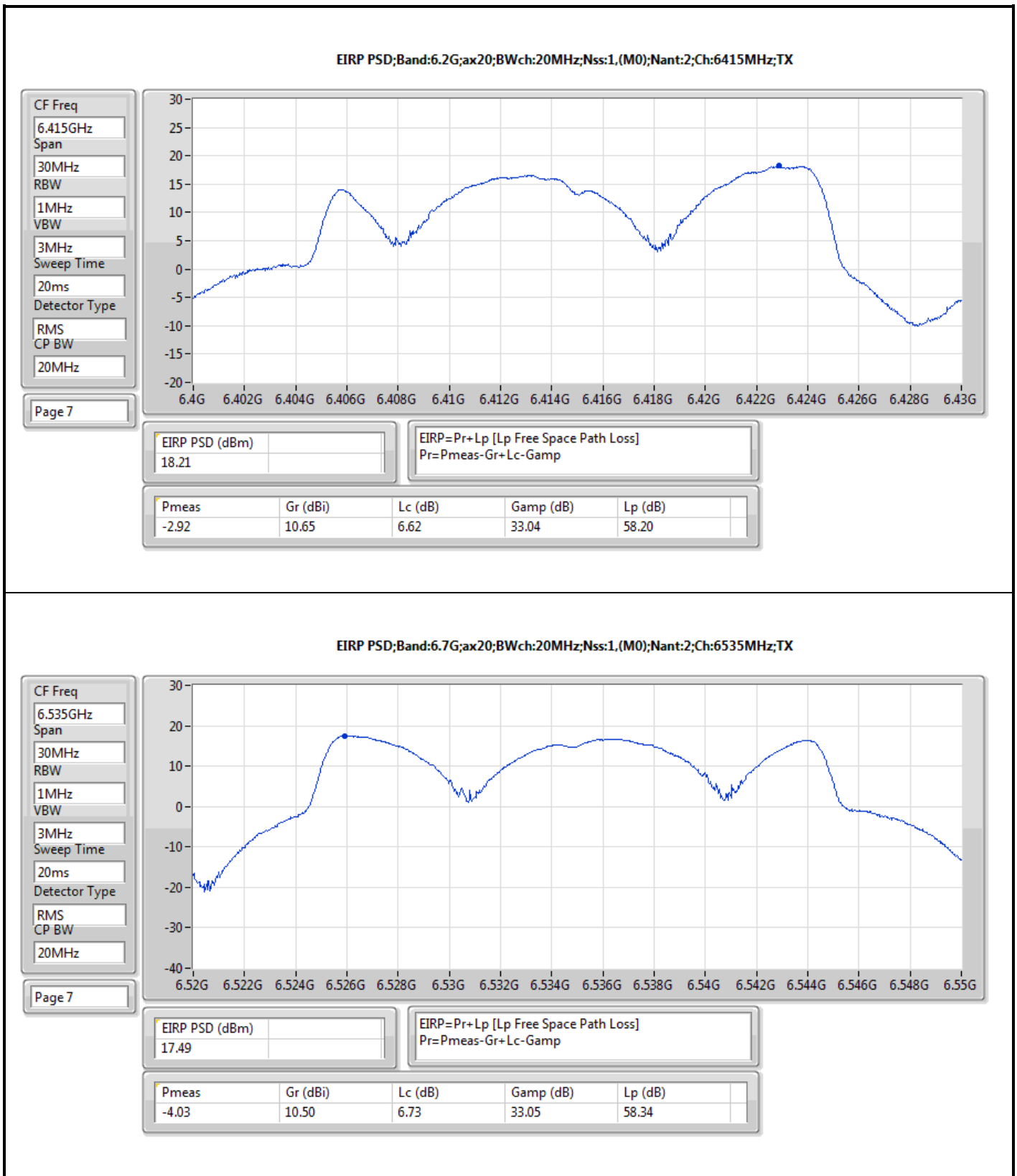


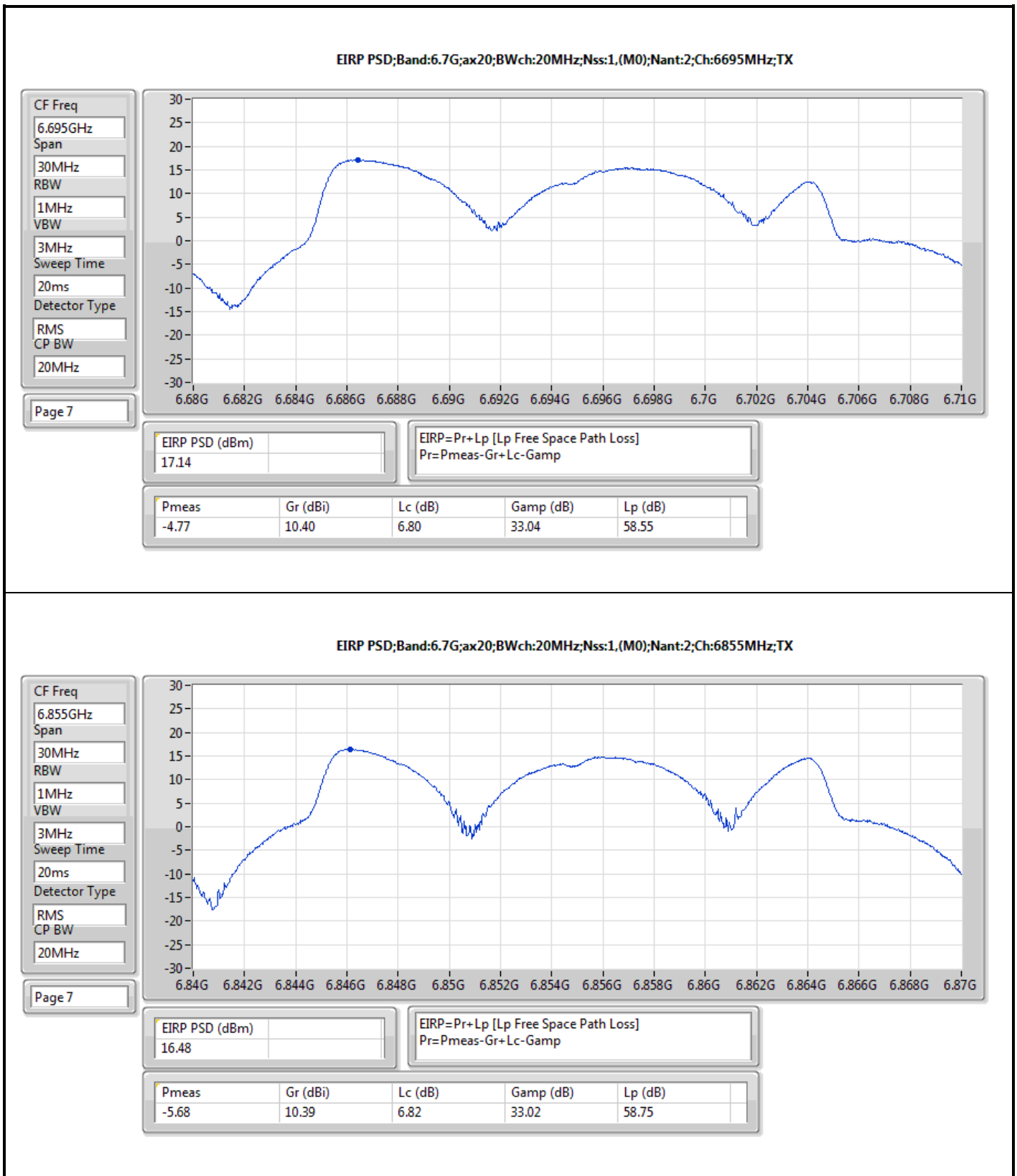


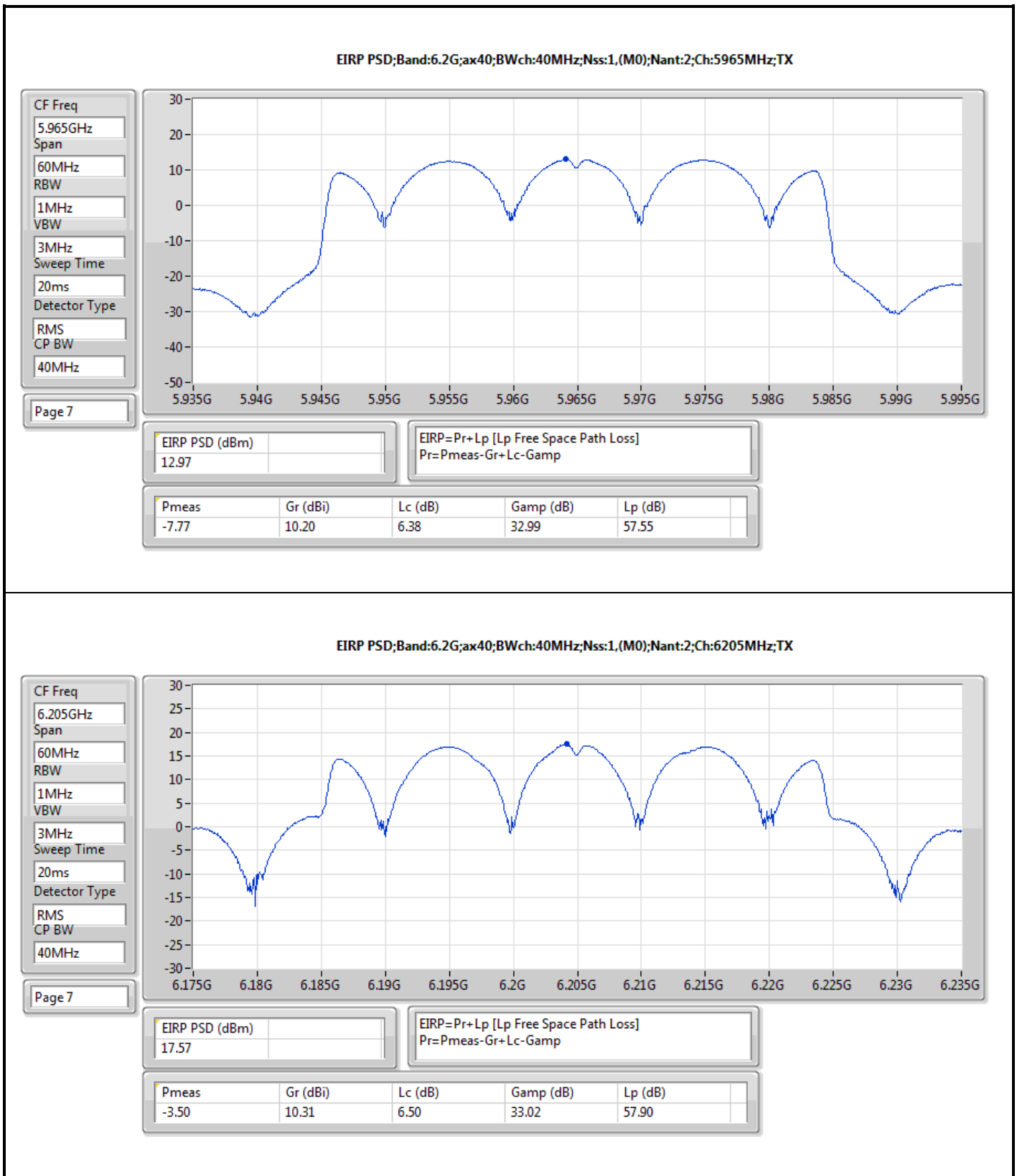


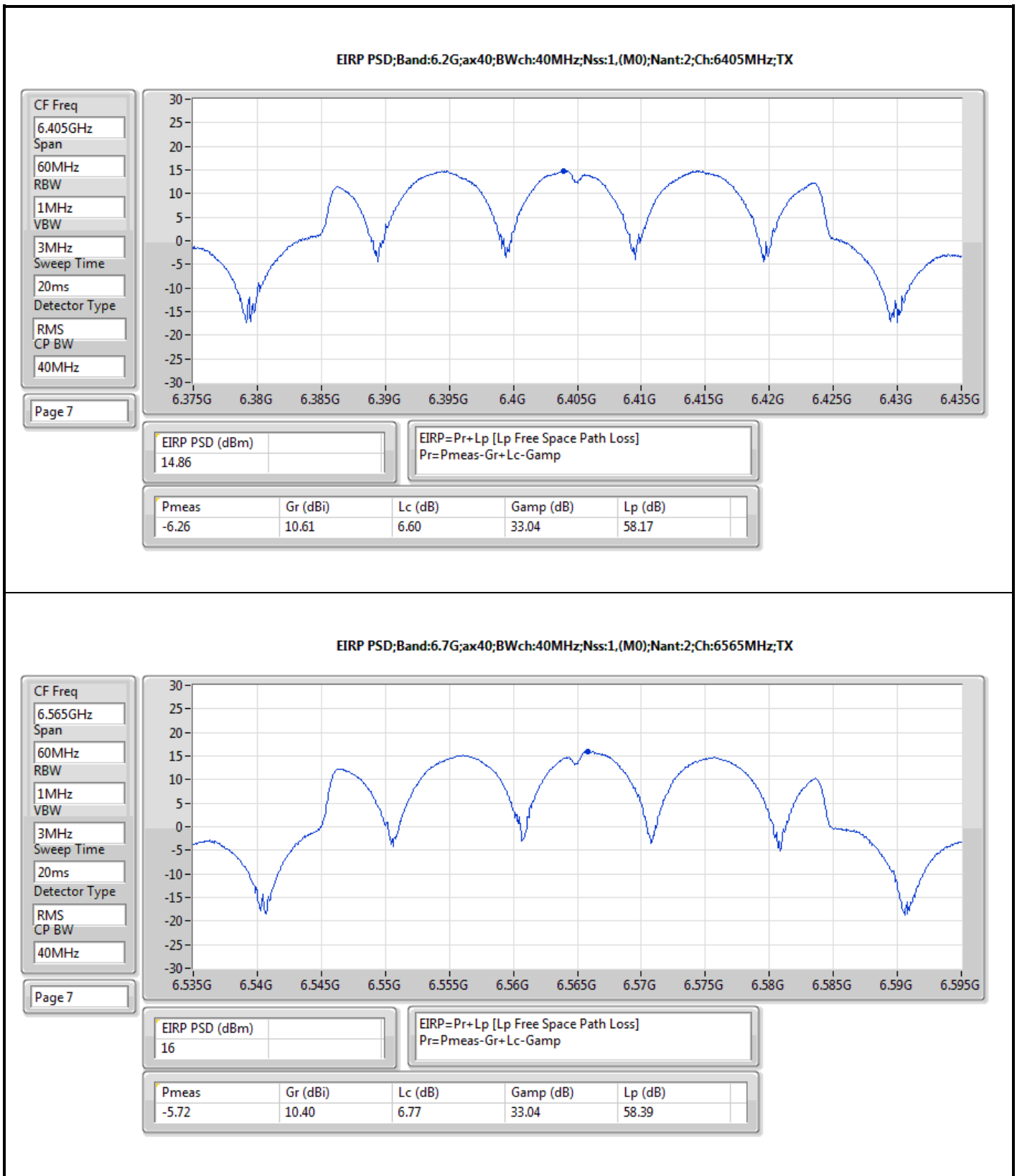


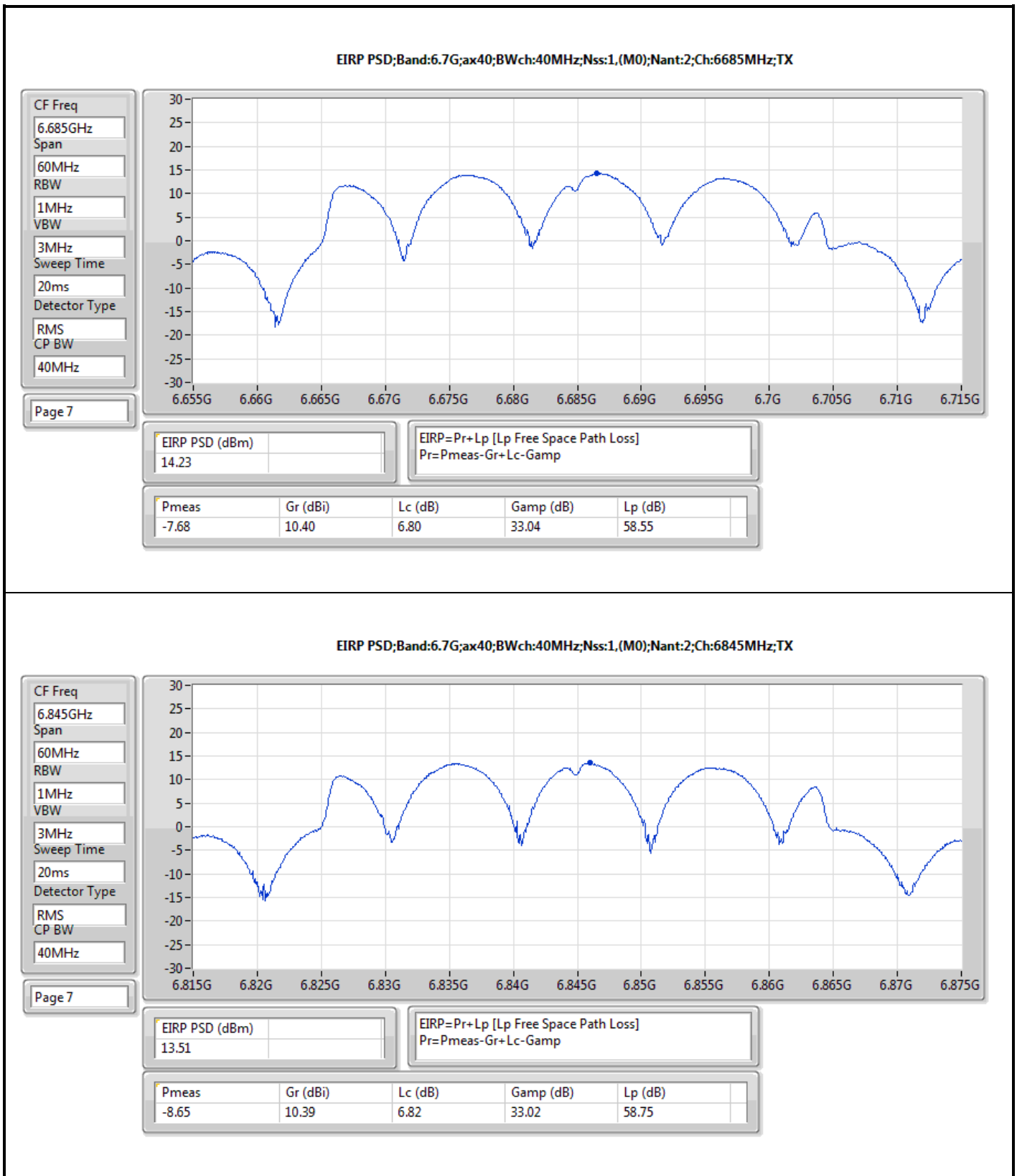


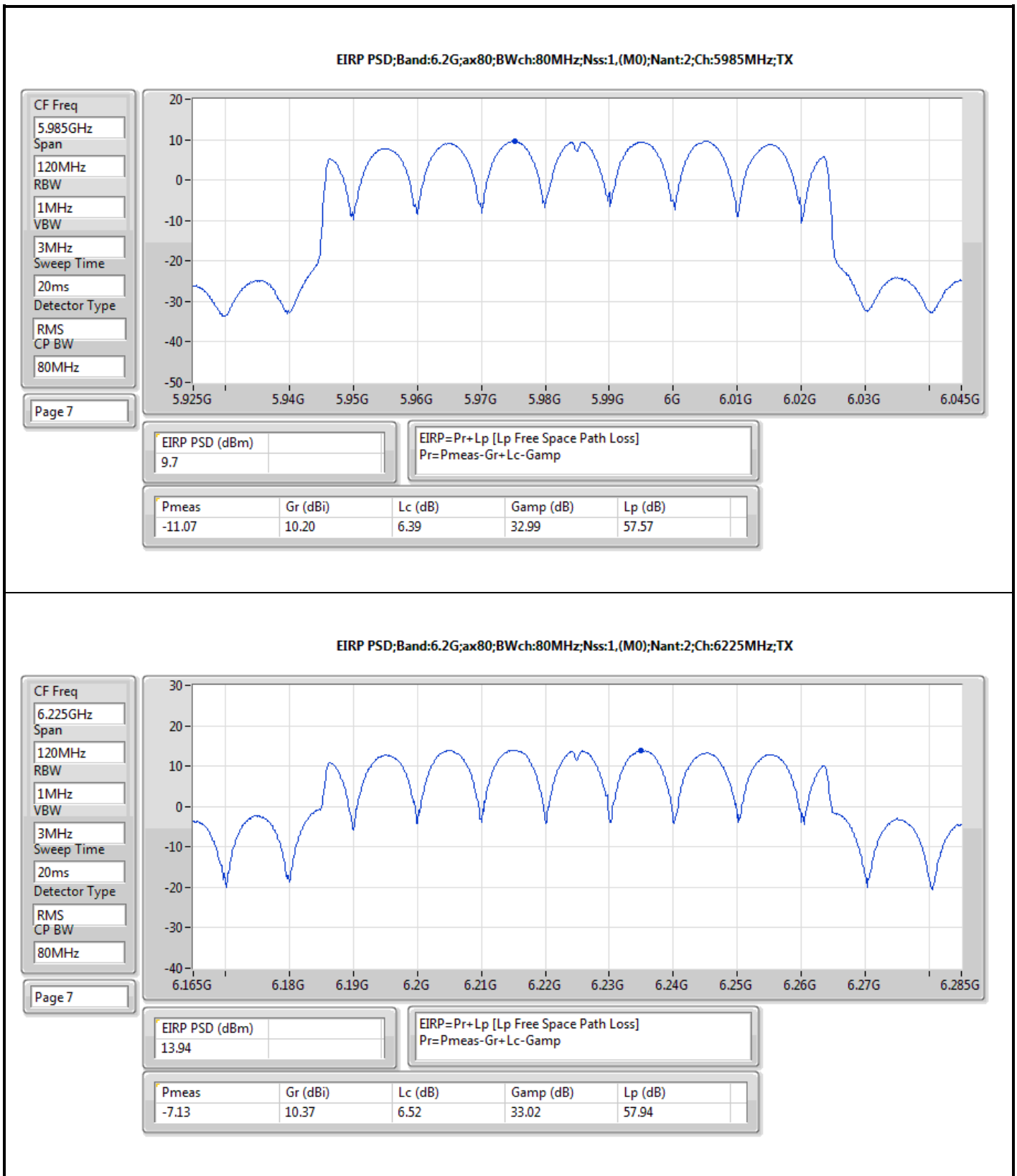


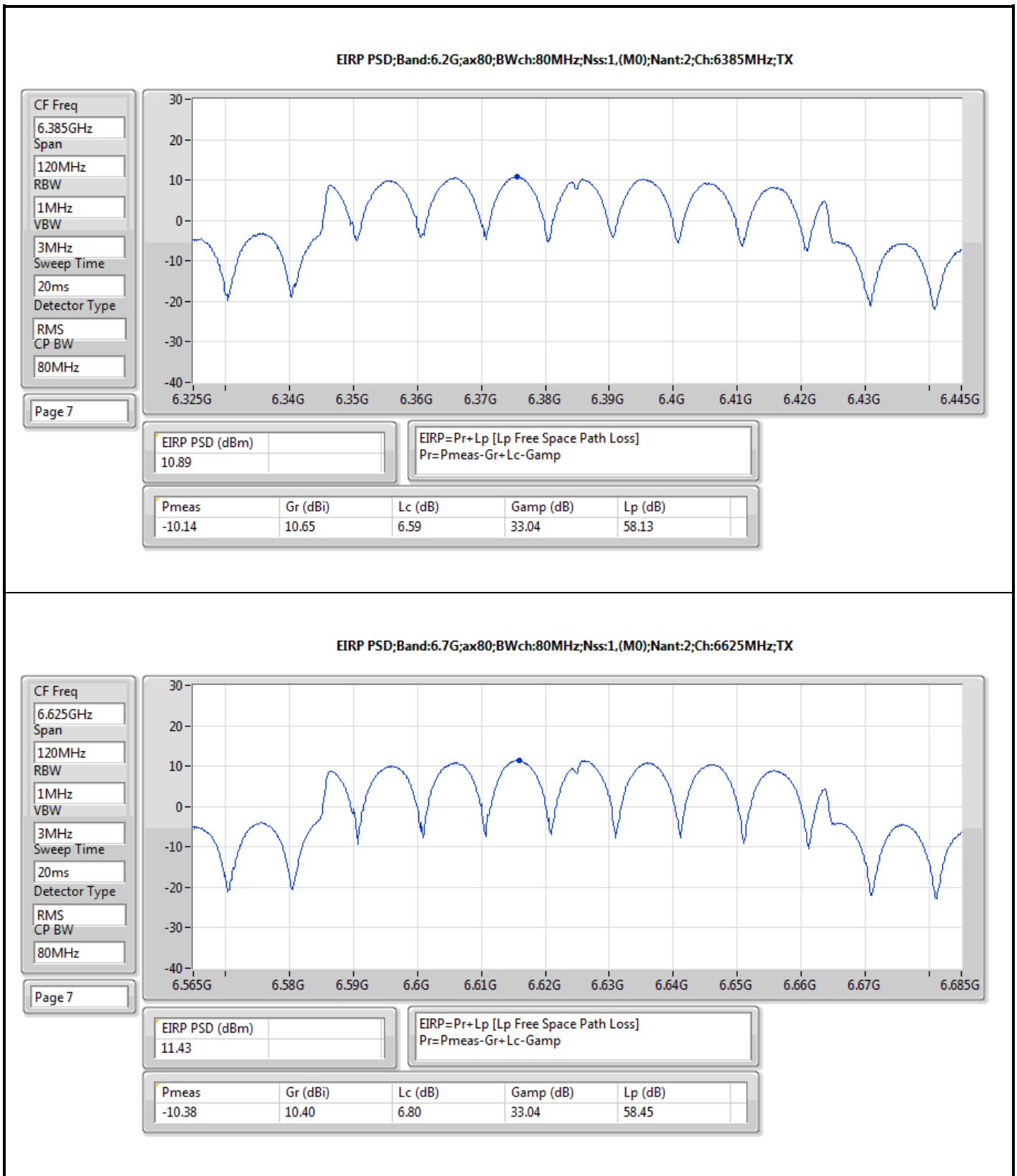


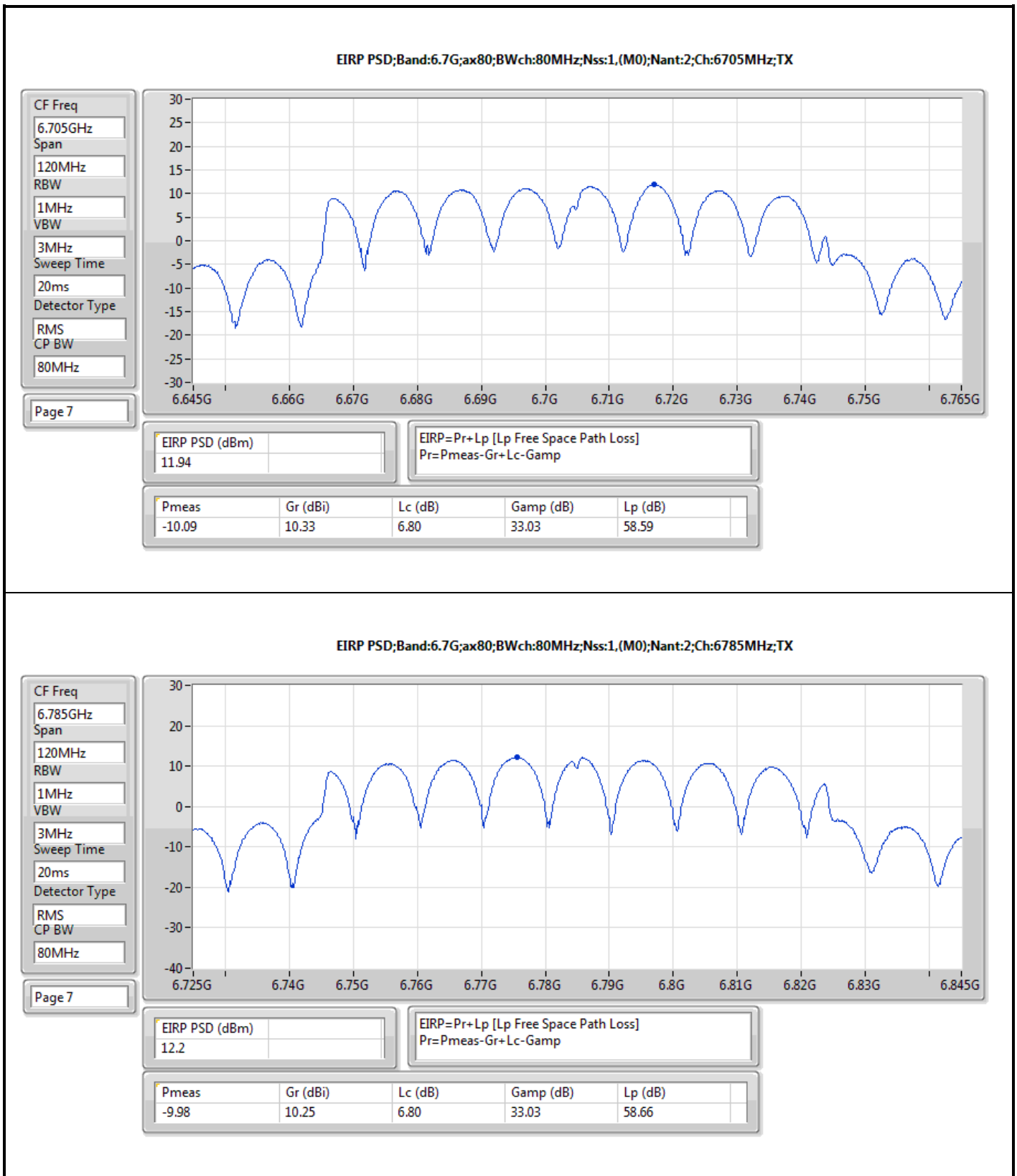


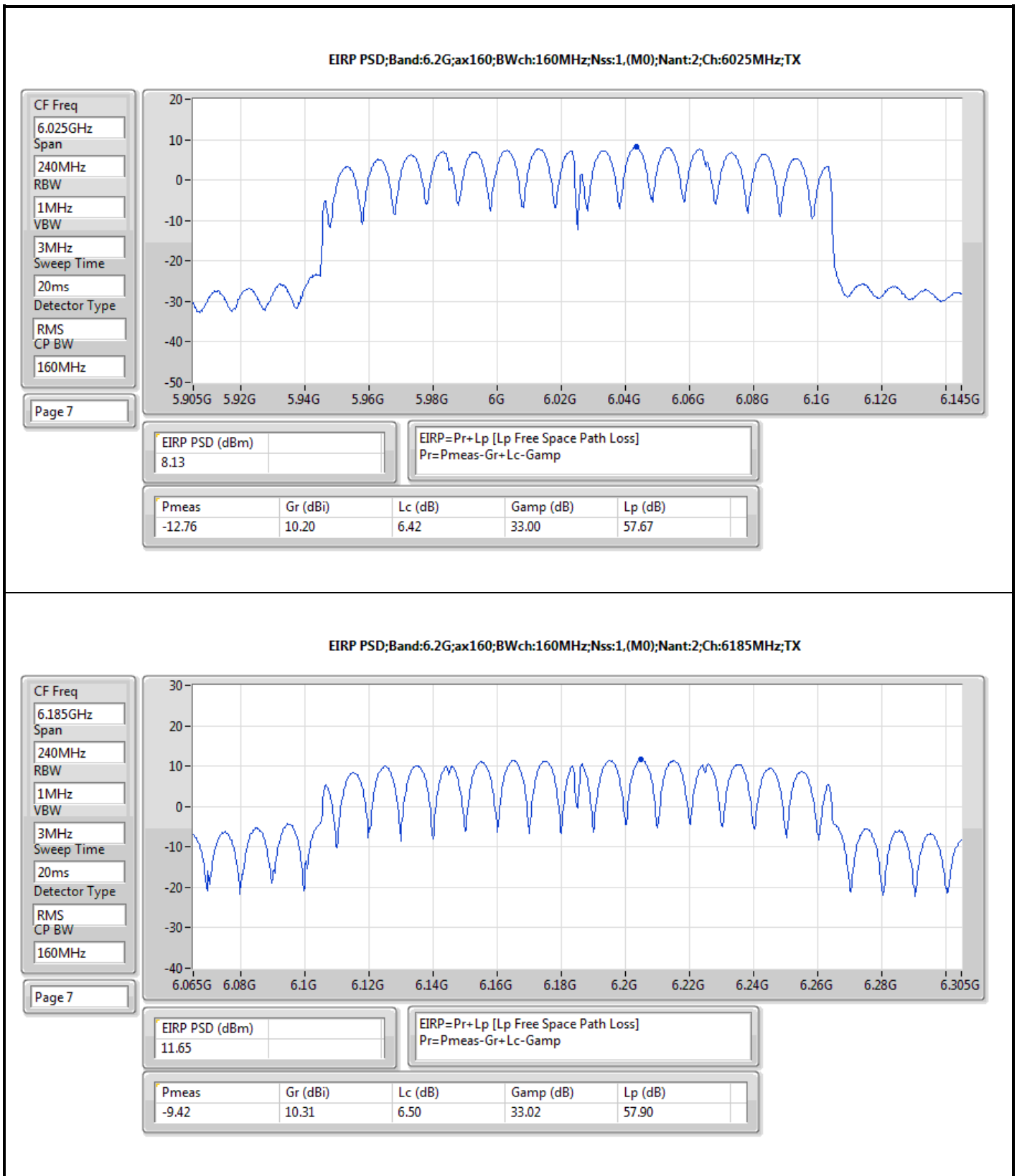


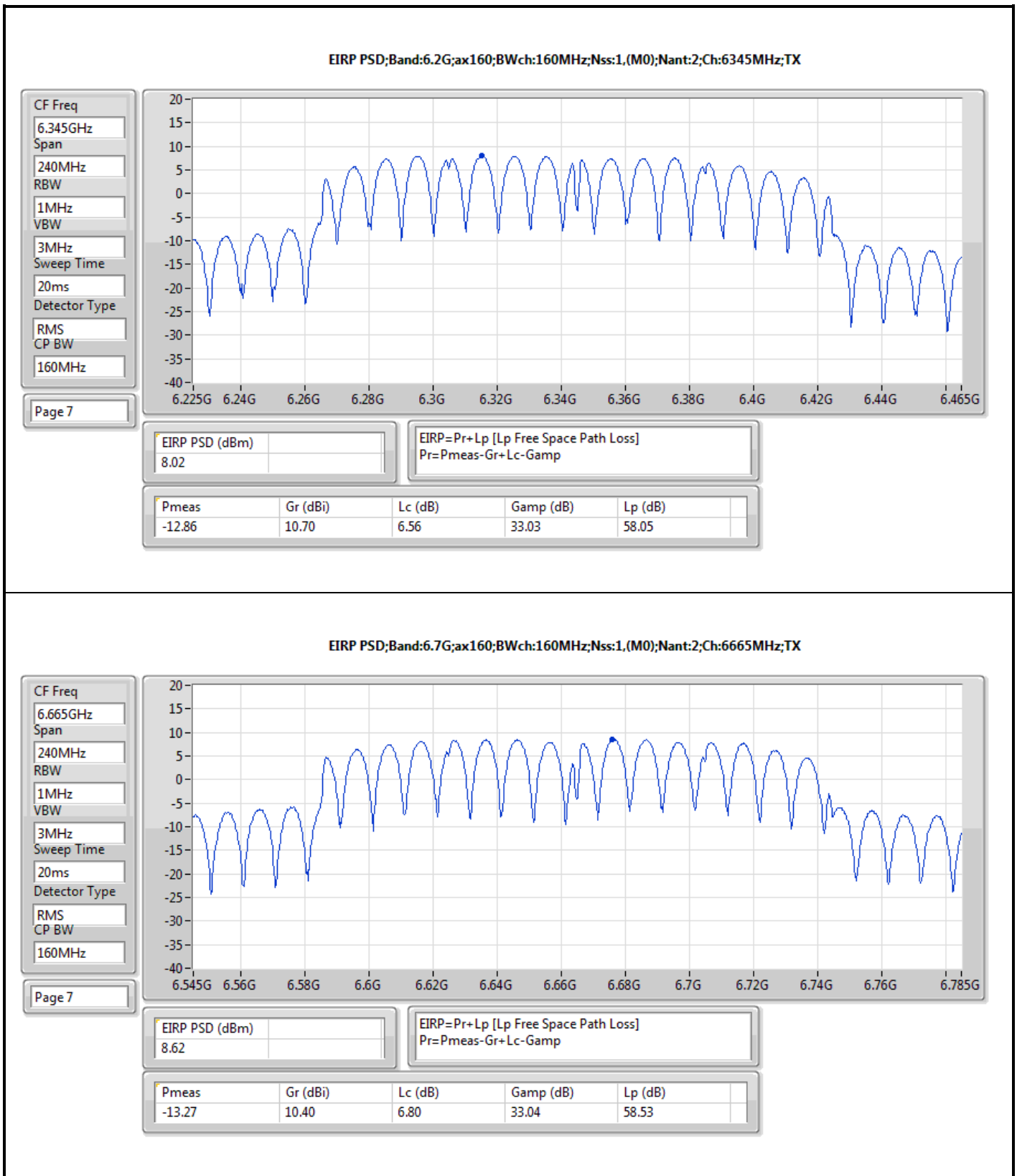


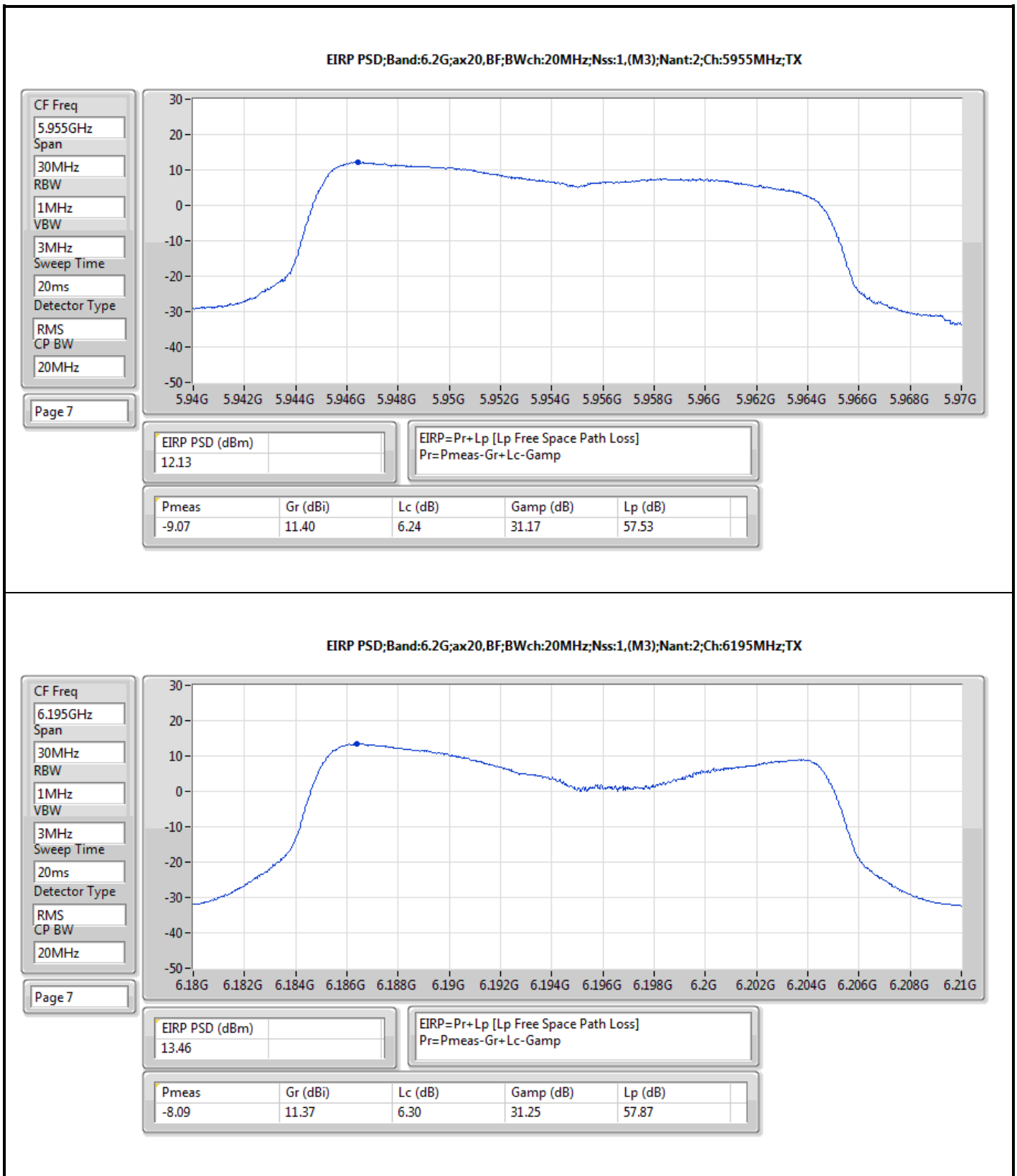




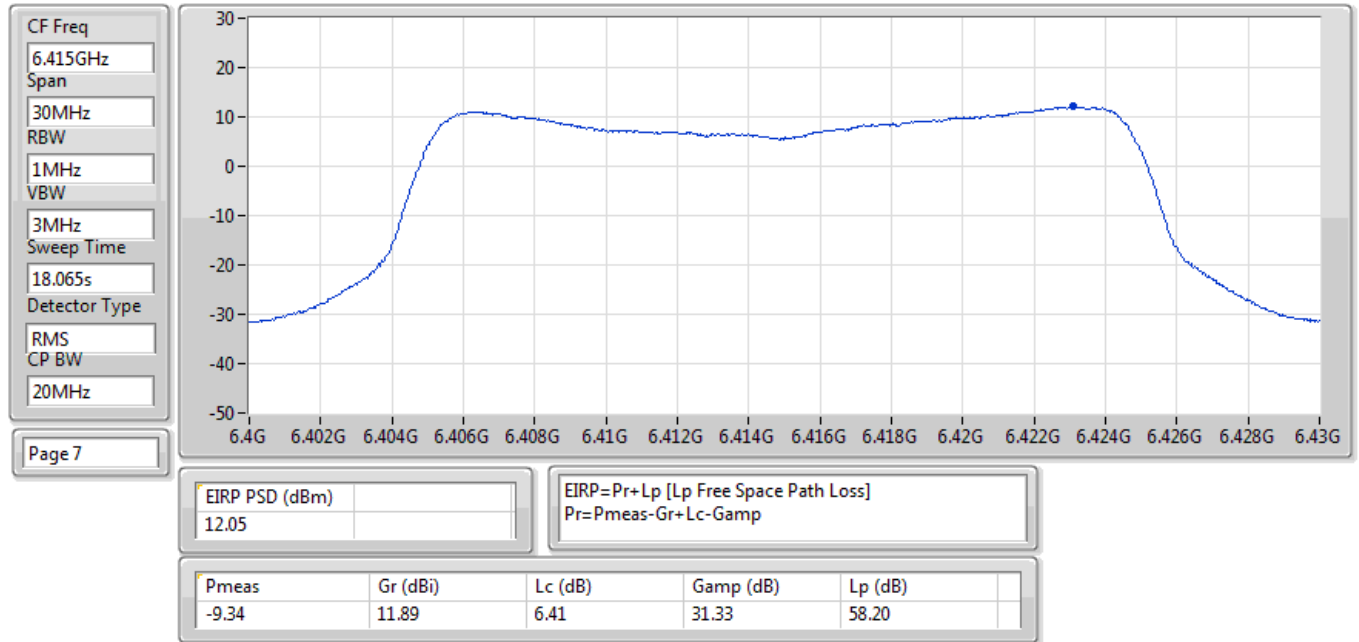




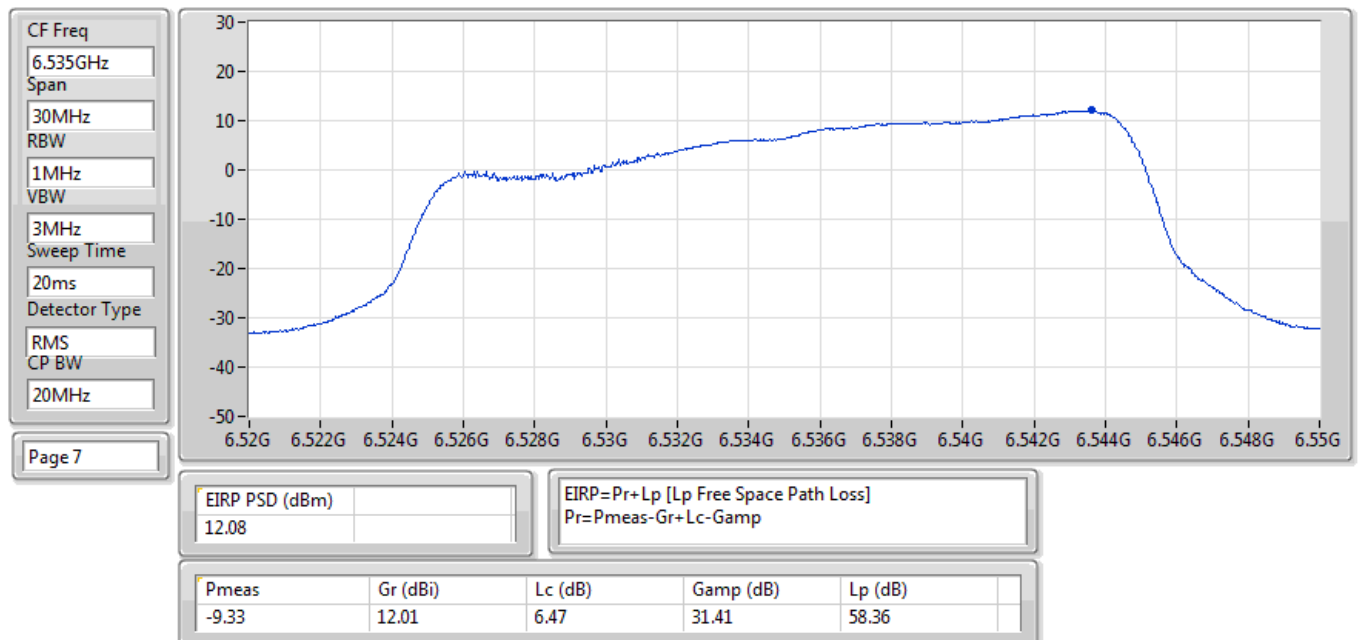


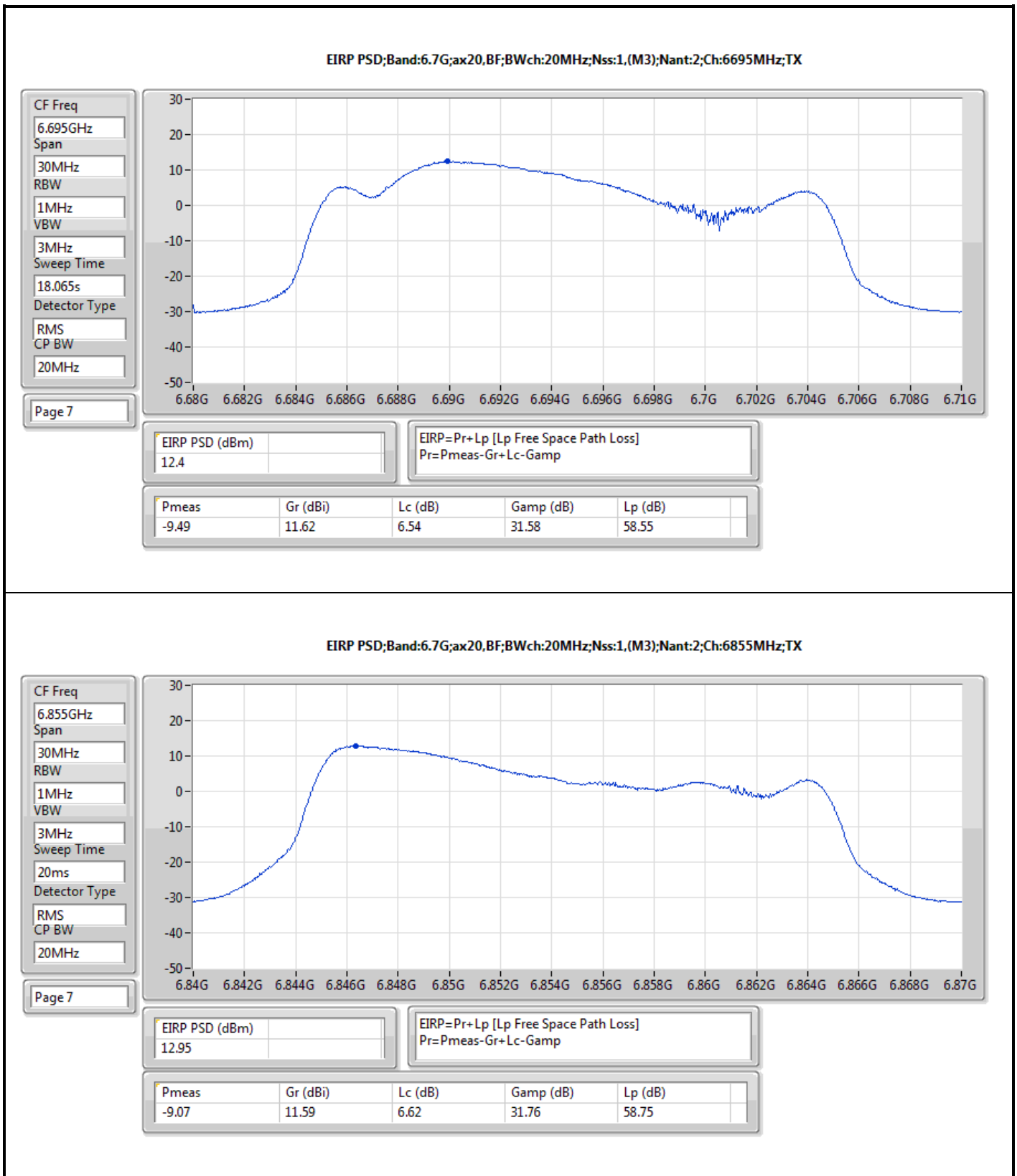


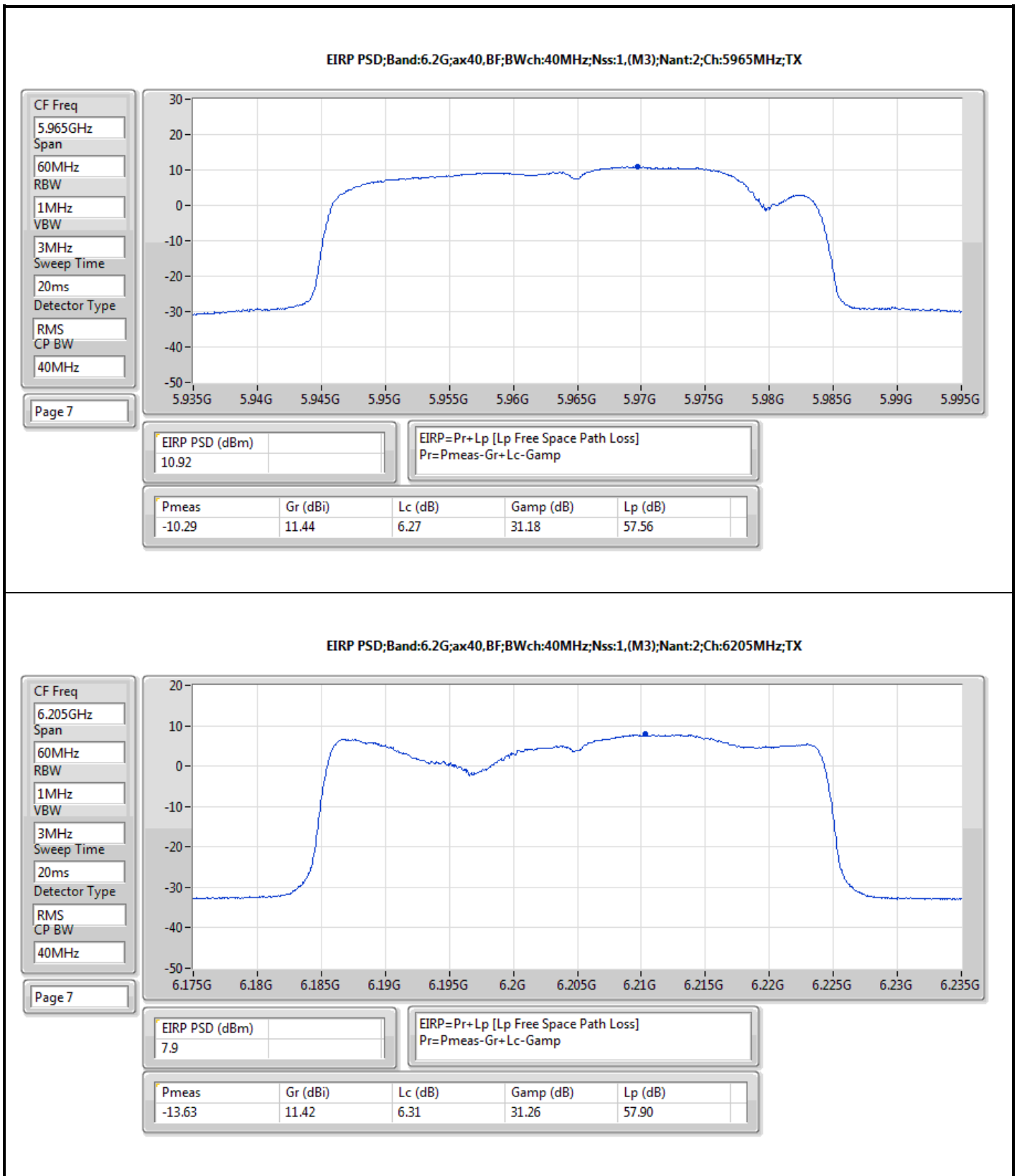
EIRP PSD;Band:6.2G;ax20,BF;BWch:20MHz;Nss:1,(M3);Nant:2;Ch:6415MHz;TX

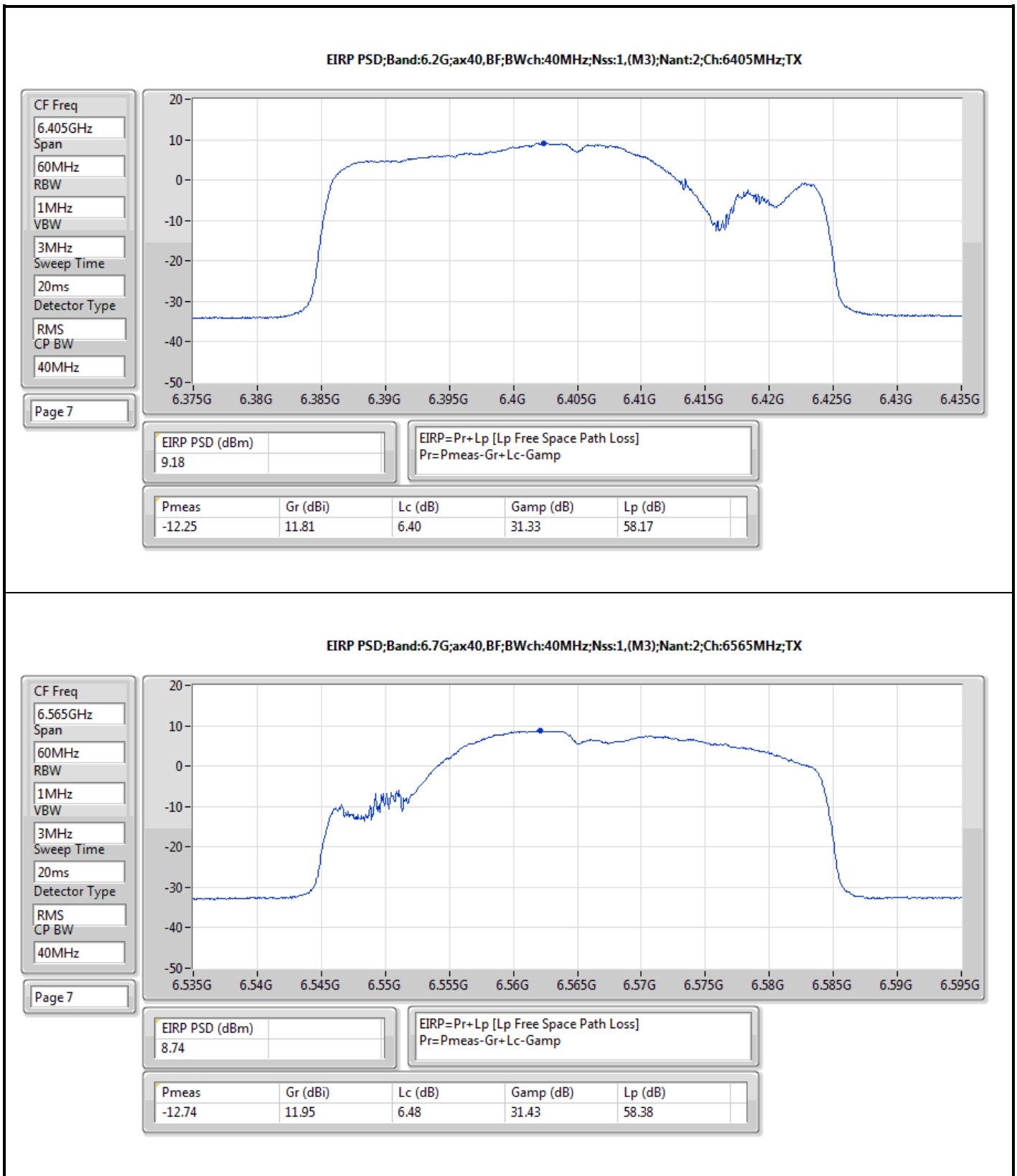


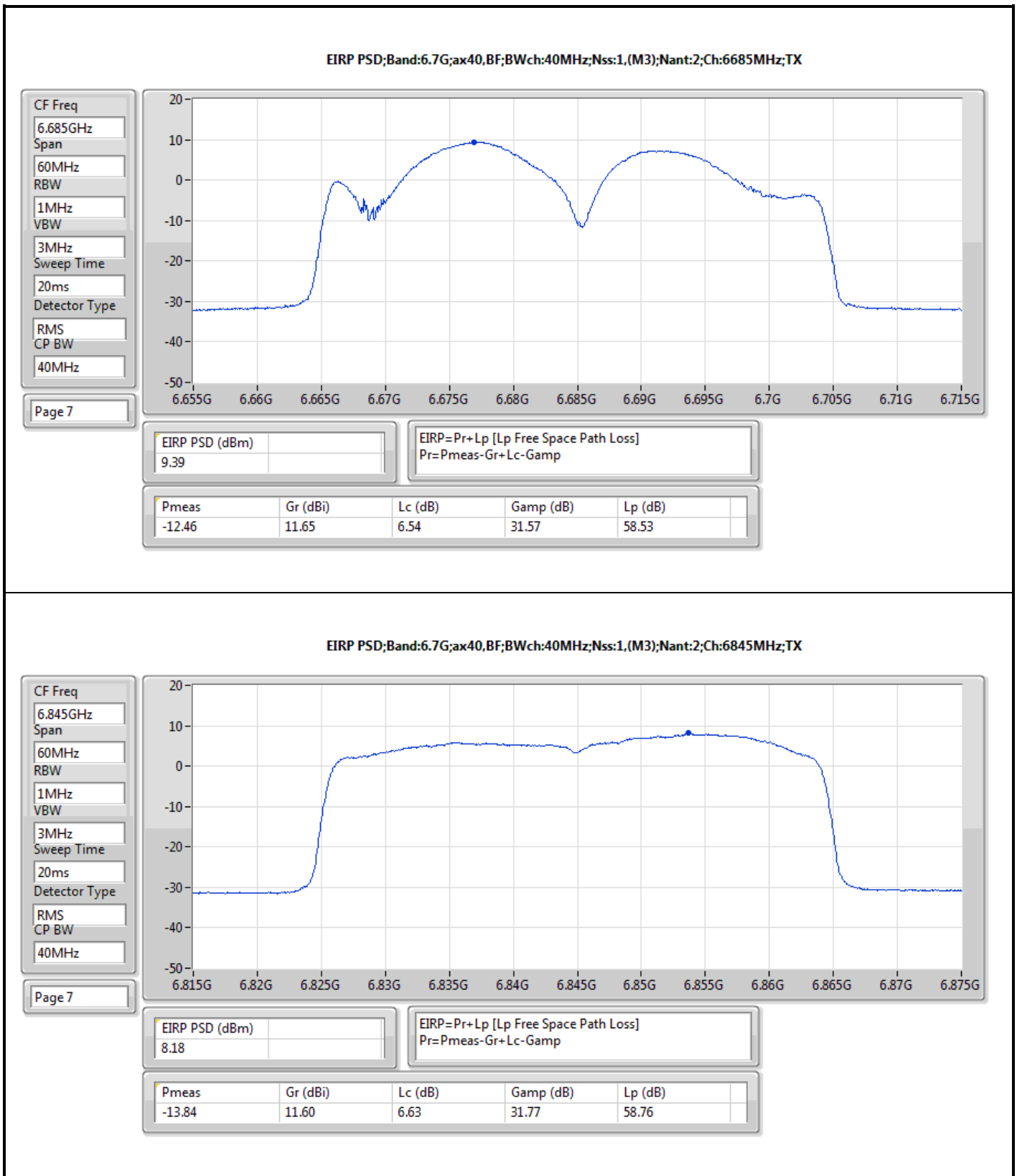
EIRP PSD;Band:6.7G;ax20,BF;BWch:20MHz;Nss:1,(M3);Nant:2;Ch:6535MHz;TX











CF Freq
6.845GHz

Span
60MHz

RBW
1MHz

VBW
3MHz

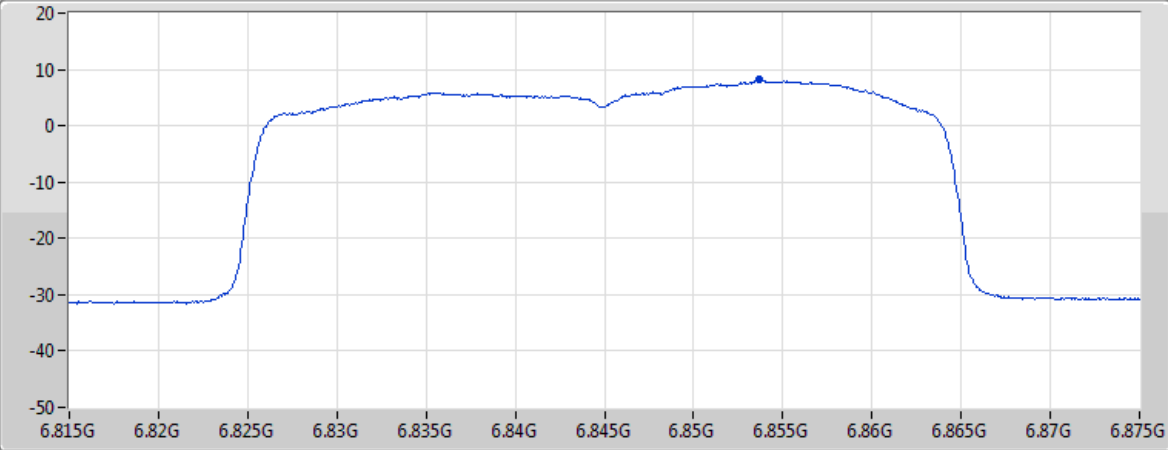
Sweep Time
20ms

Detector Type
RMS

CP BW
40MHz

Page 7

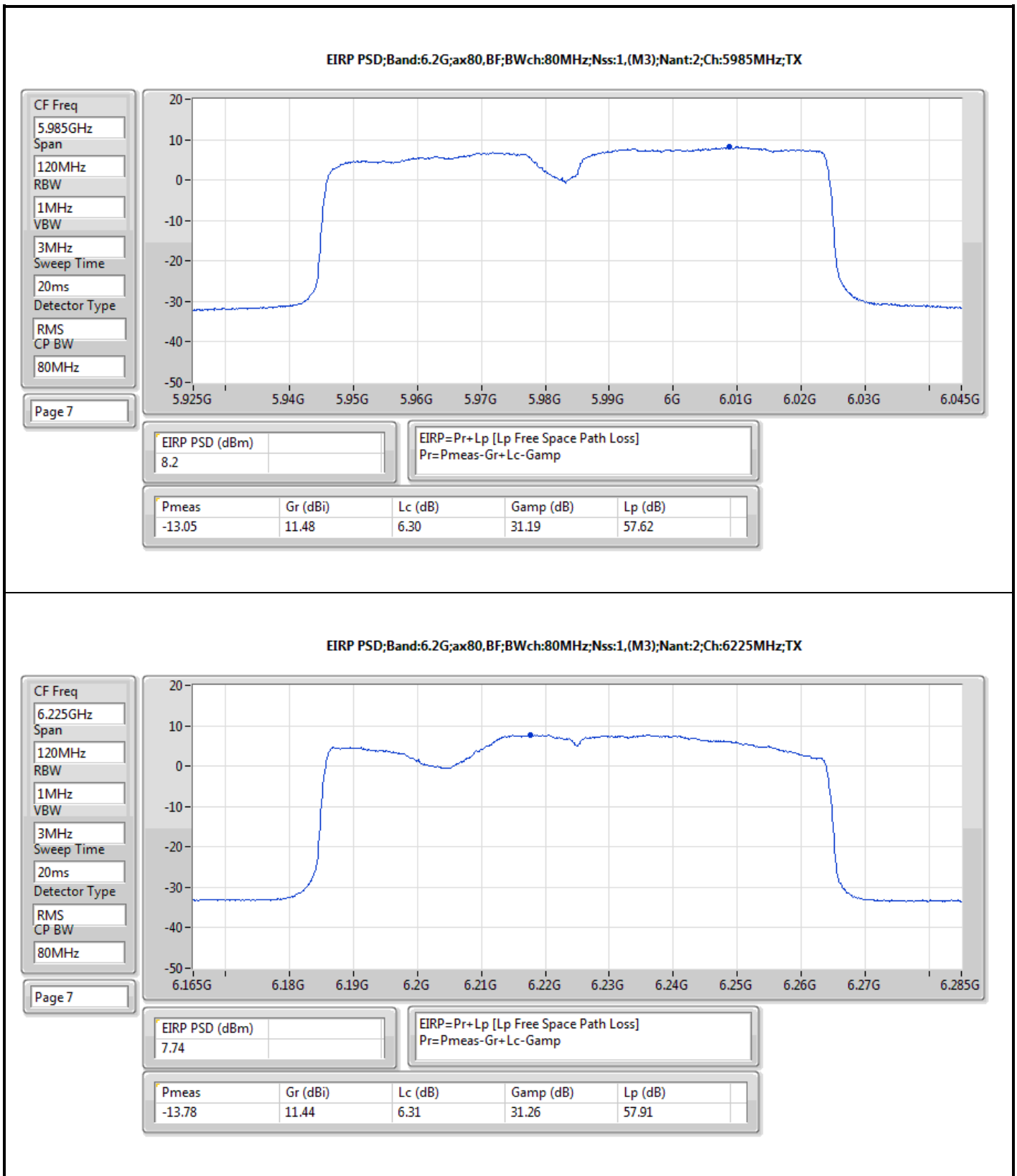
EIRP PSD;Band:6.7G;ax40,BF;BWch:40MHz;Nss:1,(M3);Nant:2;Ch:6845MHz;TX

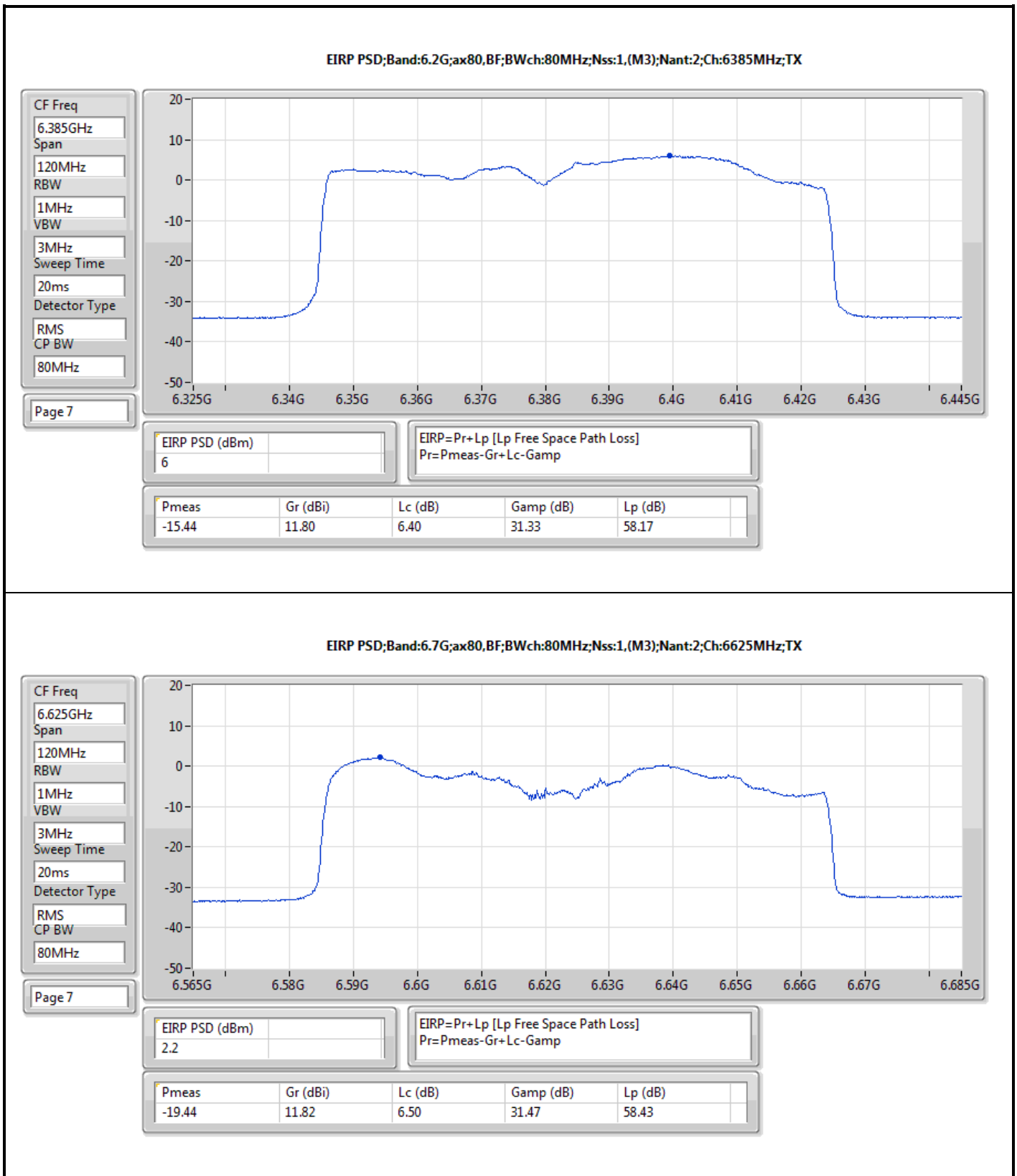


EIRP PSD (dBm)
8.18

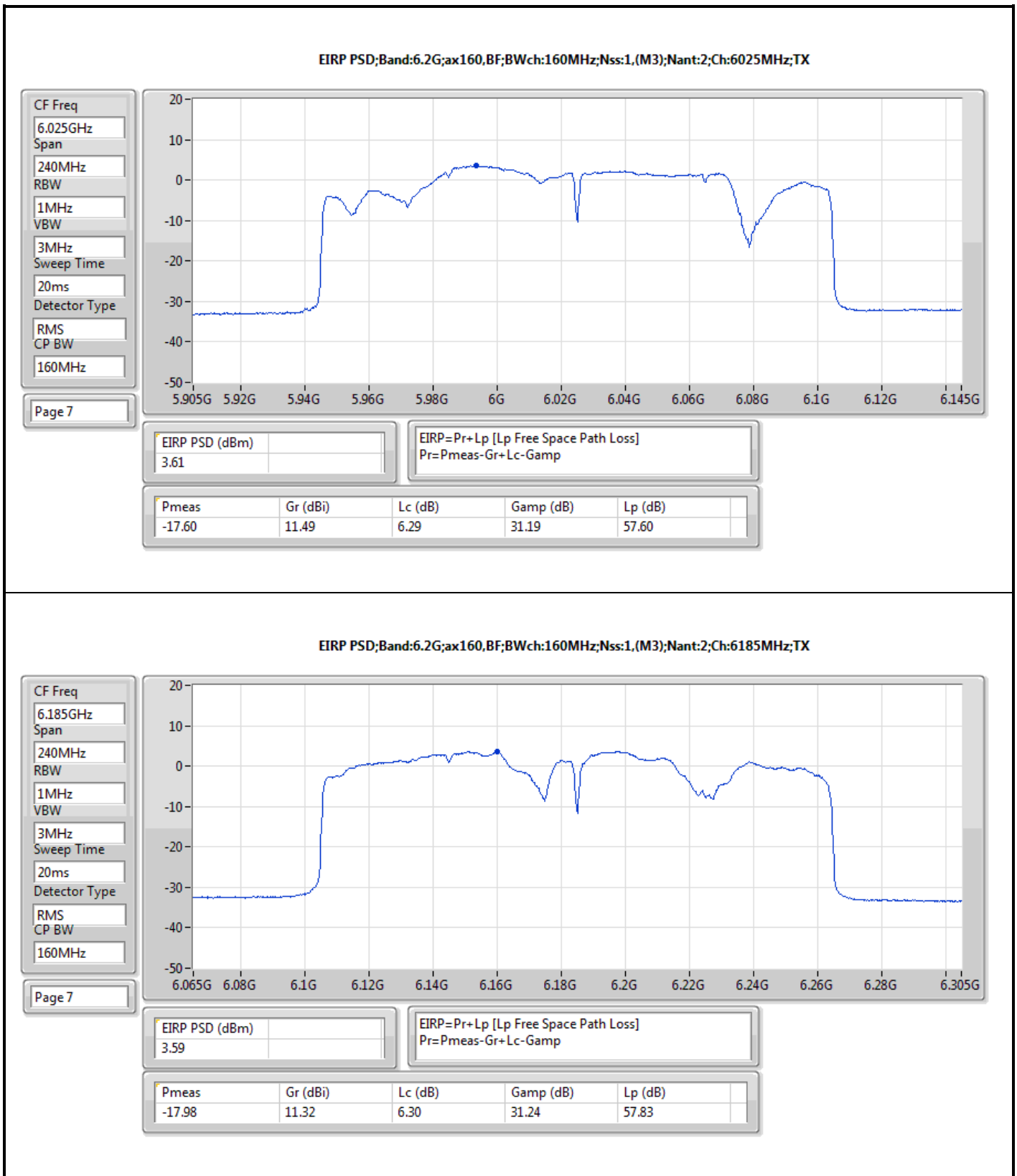
EIRP=Pr+Lp [Lp Free Space Path Loss]
Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-13.84	11.60	6.63	31.77	58.76









CF Freq
6.185GHz

Span
240MHz

RBW
1MHz

VBW
3MHz

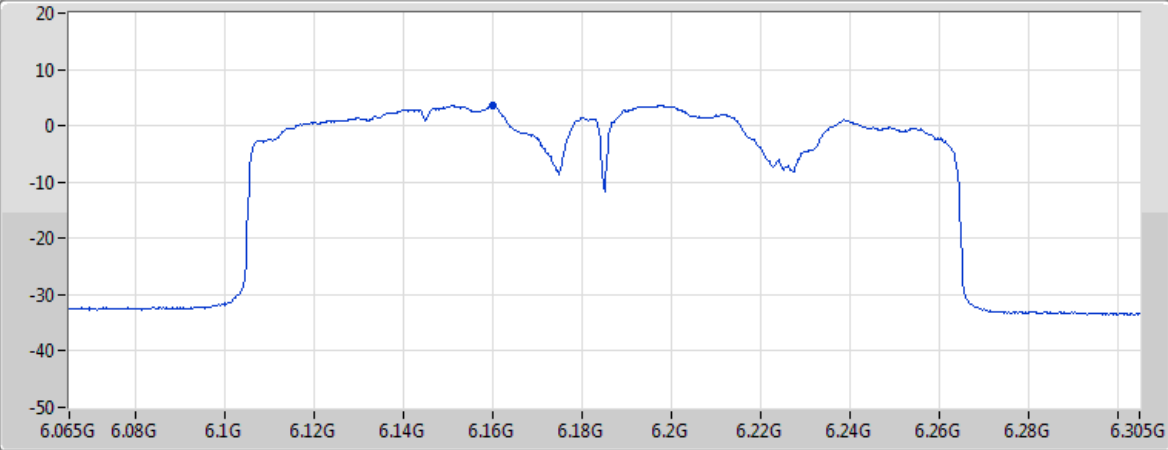
Sweep Time
20ms

Detector Type
RMS

CP BW
160MHz

Page 7

EIRP PSD;Band:6.2G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6185MHz;TX



EIRP PSD (dBm)
3.59

EIRP=Pr+Lp [Lp Free Space Path Loss]
Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-17.98	11.32	6.30	31.24	57.83



CF Freq
6.665GHz

Span
240MHz

RBW
1MHz

VBW
3MHz

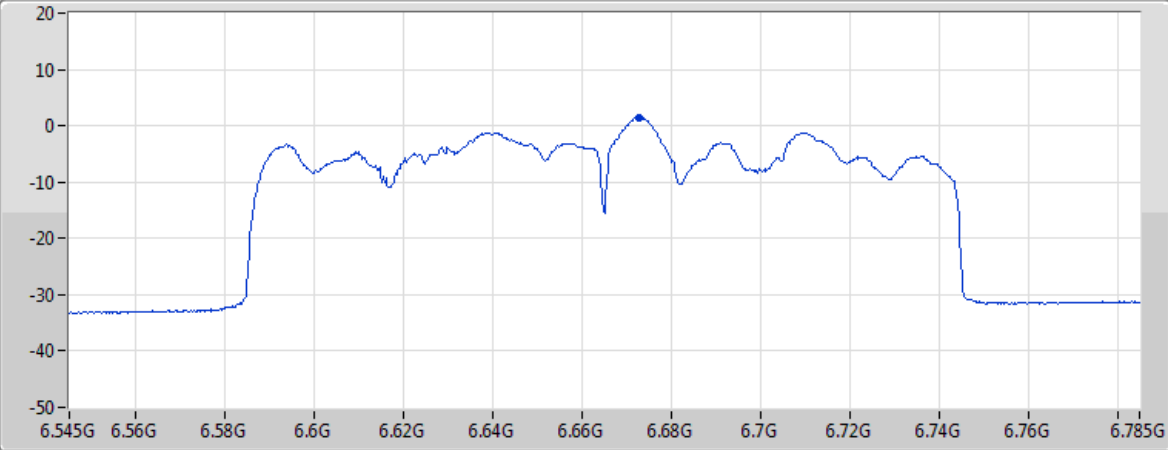
Sweep Time
20ms

Detector Type
RMS

CP BW
160MHz

Page 7

EIRP PSD;Band:6.7G;ax160,BF;BWch:160MHz;Nss:1,(M3);Nant:2;Ch:6665MHz;TX



EIRP PSD (dBm)
1.41

EIRP=Pr+Lp [Lp Free Space Path Loss]
Pr=Pmeas-Gr+Lc-Gamp

Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
-20.45	11.65	6.54	31.56	58.53



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.925-6.425GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	12.13	17.56
6.525-6.875GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	10.12	15.62

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5955MHz	Pass	5.43	10.01	10.01	15.44	23.00
6195MHz	Pass	5.43	12.13	12.13	17.56	23.00
6415MHz	Pass	5.43	8.58	8.58	14.01	23.00
6535MHz	Pass	5.50	8.42	8.42	13.92	23.00
6695MHz	Pass	5.50	10.12	10.12	15.62	23.00
6855MHz	Pass	5.50	8.22	8.22	13.72	23.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5955MHz

06/09/2023

CF (Hz)
5.955G

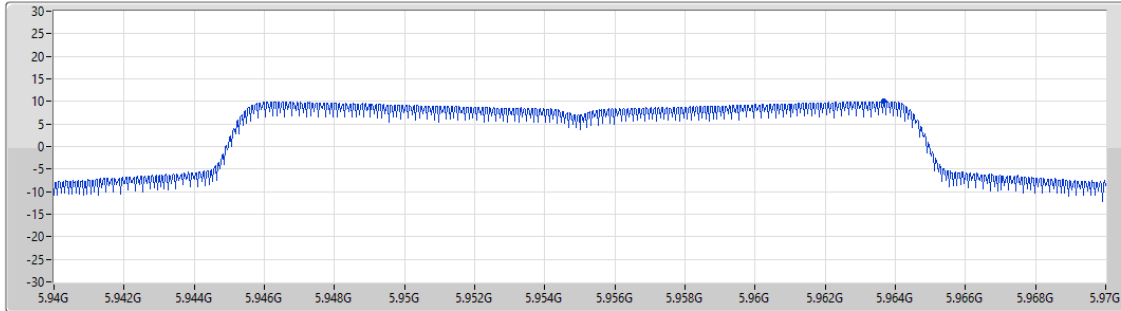
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.01	10.01	10.01

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

6195MHz

06/09/2023

CF (Hz)
6.195G

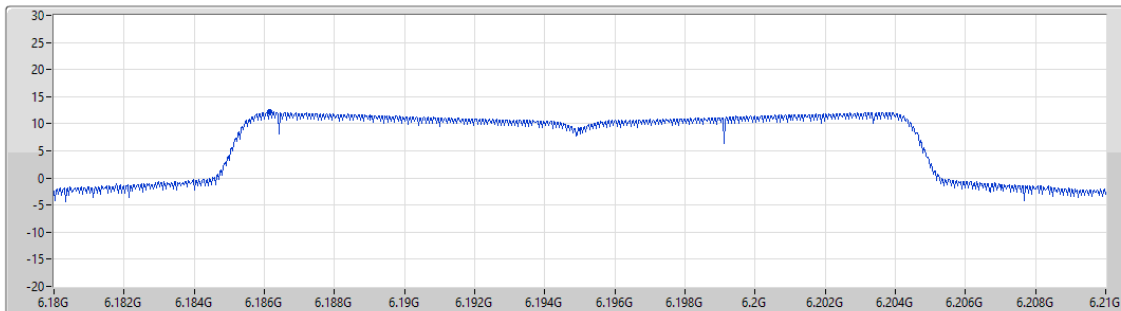
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Port 1

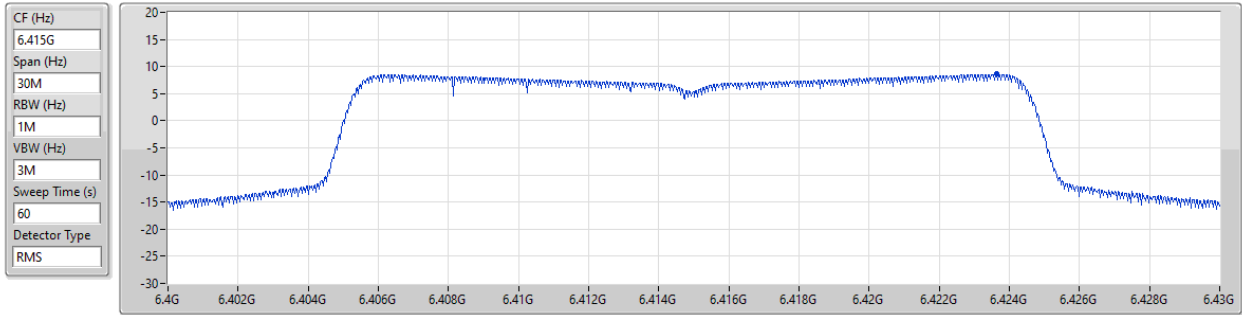
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.13	12.13	12.13

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

6415MHz

06/09/2023



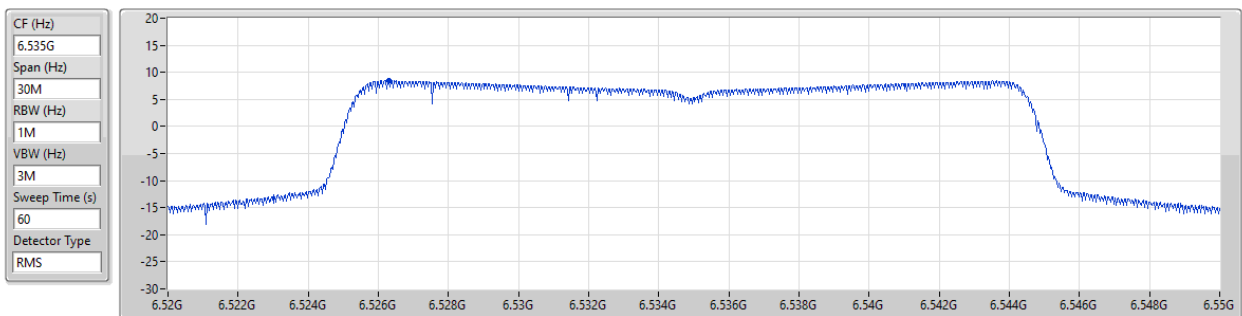
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.58	8.58	8.58

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

6535MHz

06/09/2023



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.42	8.42	8.42

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

6695MHz

06/09/2023

CF (Hz)
6.695G

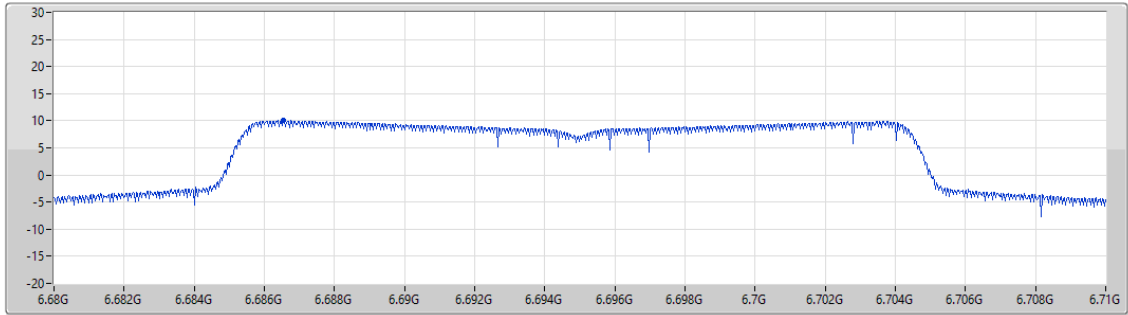
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.12	10.12	10.12

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

6855MHz

06/09/2023

CF (Hz)
6.855G

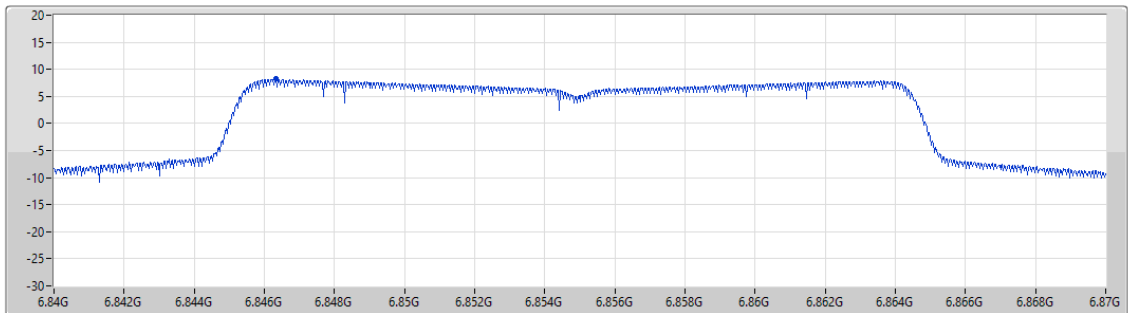
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.22	8.22	8.22

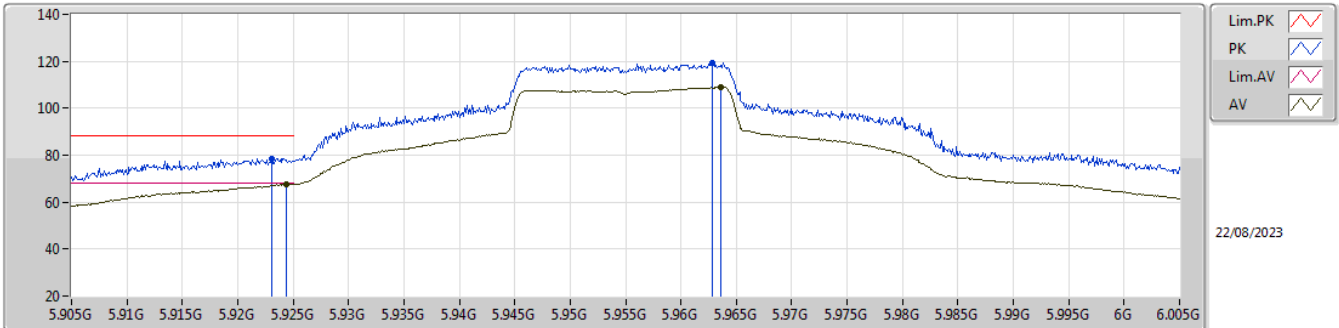


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.925-6.425GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	RMS	5.9244G	67.78	68.20	-0.42	3	Vertical	305	2.20	-

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

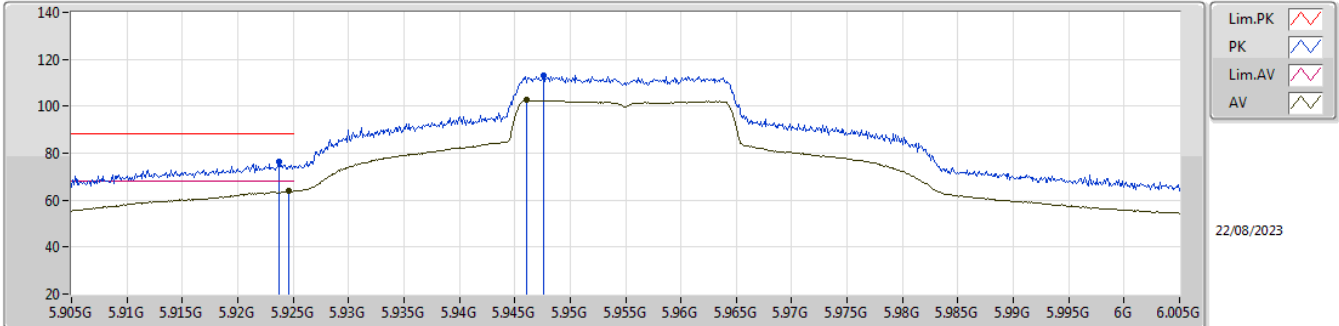


EUT Y_1TX
Setting 23.5
02-H-P-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.9231G	78.59	88.20	-9.61	69.27	3	Vertical	305	2.20	-	34.25	6.22	31.15			
RMS	5.9244G	67.78	68.20	-0.42	58.47	3	Vertical	305	2.20	-	34.25	6.22	31.16			
PK	5.9628G	119.53	Inf	-Inf	110.14	3	Vertical	305	2.20	-	34.30	6.26	31.17			
RMS	5.9636G	108.99	Inf	-Inf	99.60	3	Vertical	305	2.20	-	34.30	6.26	31.17			

5.925-6.425GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

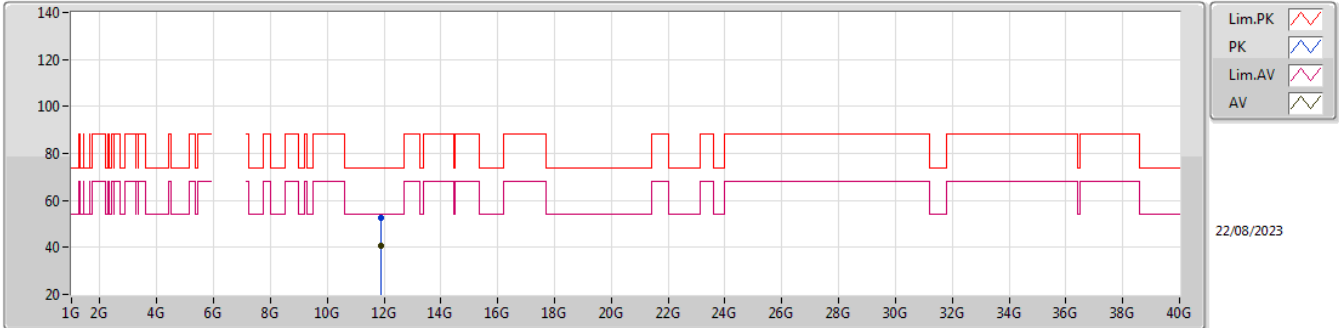


EUT Y_1TX
Setting 23.5
02-H-P-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.9237G	76.14	88.20	-12.06	66.82	3	Horizontal	347	2.94	-	34.25	6.22	31.15			
RMS	5.9246G	63.73	68.20	-4.47	54.42	3	Horizontal	347	2.94	-	34.25	6.22	31.16			
PK	5.9476G	113.09	Inf	-Inf	103.72	3	Horizontal	347	2.94	-	34.30	6.24	31.17			
RMS	5.9461G	102.51	Inf	-Inf	93.15	3	Horizontal	347	2.94	-	34.29	6.24	31.17			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

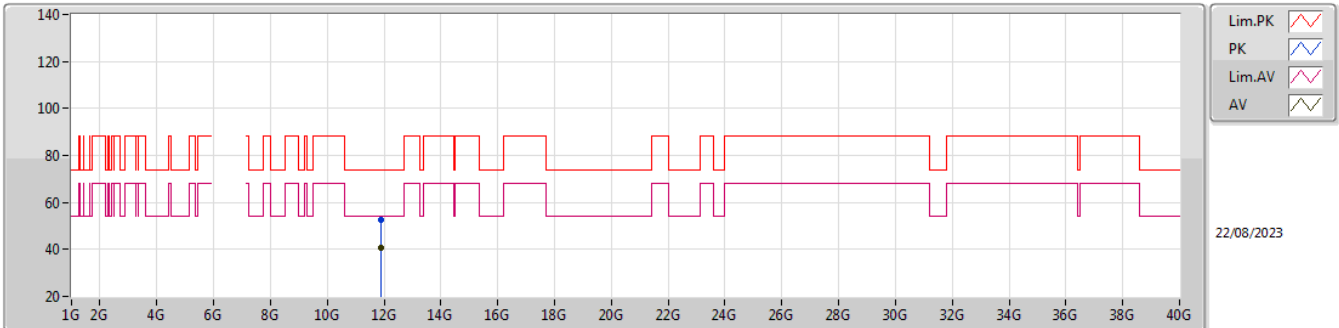


EUT Y_1TX
Setting 23.5
02-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	11.90948G	52.53	74.00	-21.47	47.49	3	Vertical	203	2.94	-	39.30	8.97	43.23			
AV	11.91176G	40.63	54.00	-13.37	35.59	3	Vertical	203	2.94	-	39.30	8.97	43.23			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

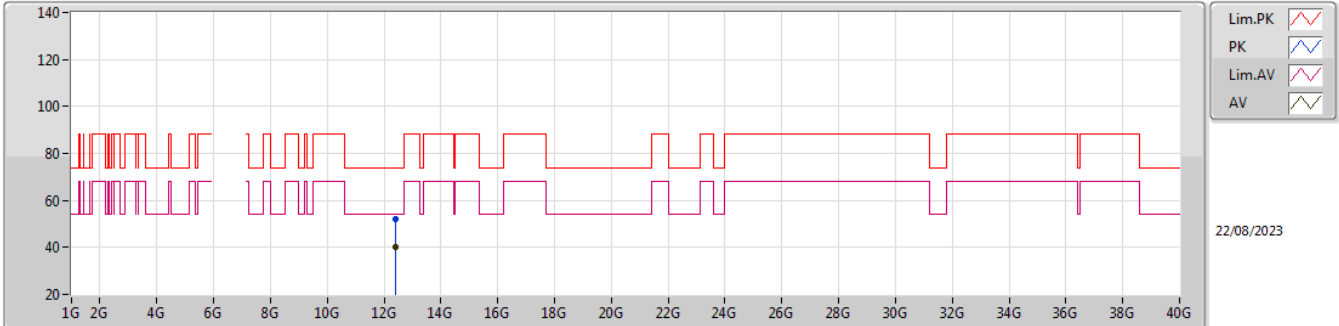


EUT Y_1TX
Setting 23.5
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	11.9082G	52.48	74.00	-21.52	47.44	3	Horizontal	330	1.27	-	39.30	8.97	43.23			
AV	11.91212G	40.63	54.00	-13.37	35.59	3	Horizontal	330	1.27	-	39.30	8.97	43.23			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6195MHz_TX

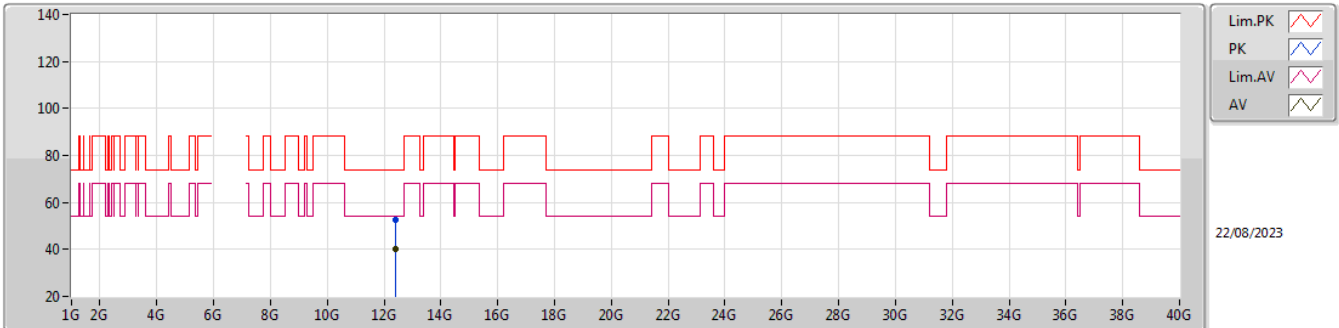


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	12.38804G	52.30	74.00	-21.70	47.71	3	Vertical	283	1.84	-	38.62	9.14	43.17			
AV	12.39734G	40.30	54.00	-13.70	35.71	3	Vertical	283	1.84	-	38.61	9.14	43.16			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6195MHz_TX

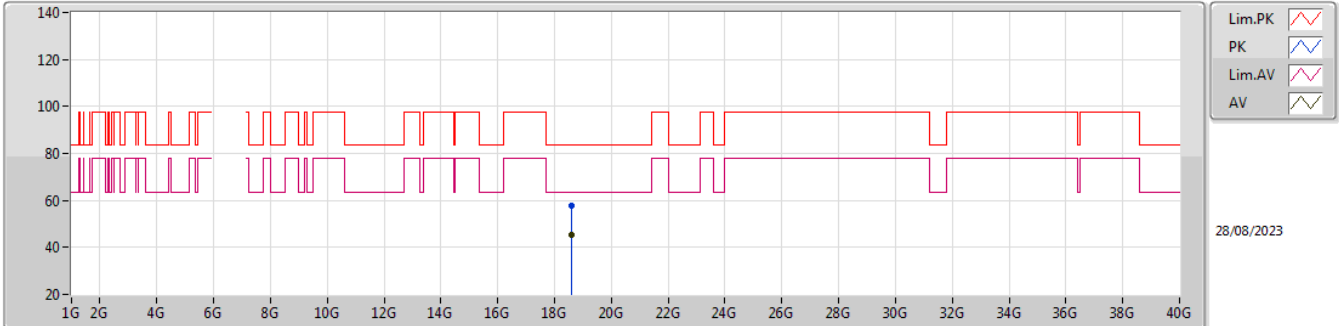


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	12.39804G	52.44	74.00	-21.56	47.86	3	Horizontal	254	1.47	-	38.60	9.14	43.16			
AV	12.39916G	40.21	54.00	-13.79	35.63	3	Horizontal	254	1.47	-	38.60	9.14	43.16			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6195MHz_TX

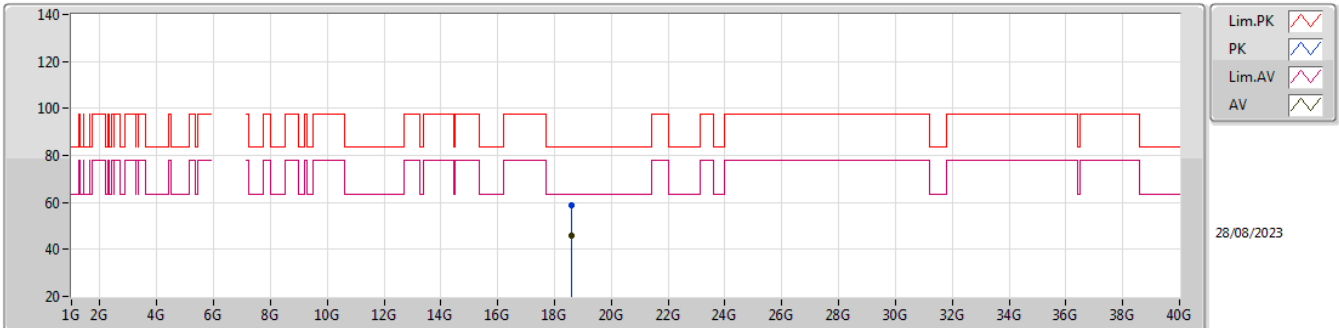


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	18.582G	57.84	83.54	-25.70	53.84	1	Vertical	194	1.80	-	37.70	16.68	50.38			
AV	18.58374G	45.54	63.54	-18.00	41.54	1	Vertical	194	1.80	-	37.70	16.68	50.38			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6195MHz_TX

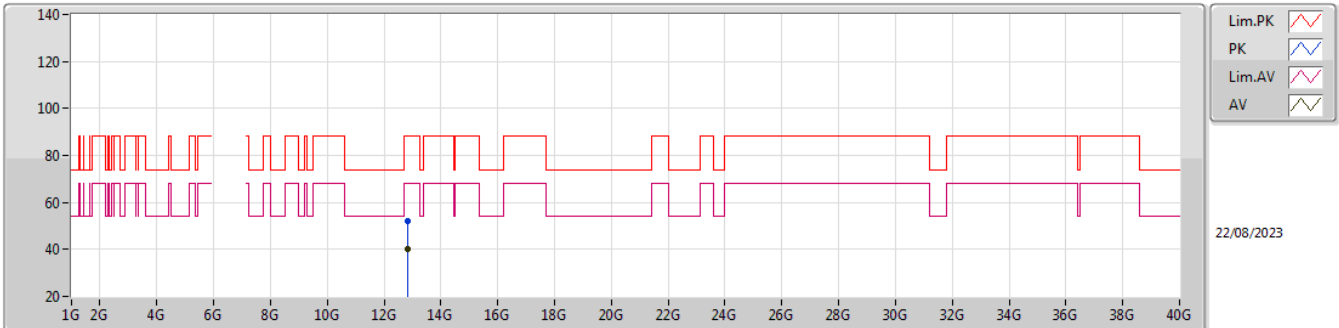


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	18.58518G	58.63	83.54	-24.91	54.64	1	Horizontal	182	1.63	-	37.70	16.68	50.39			
AV	18.58521G	46.08	63.54	-17.46	42.09	1	Horizontal	182	1.63	-	37.70	16.68	50.39			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

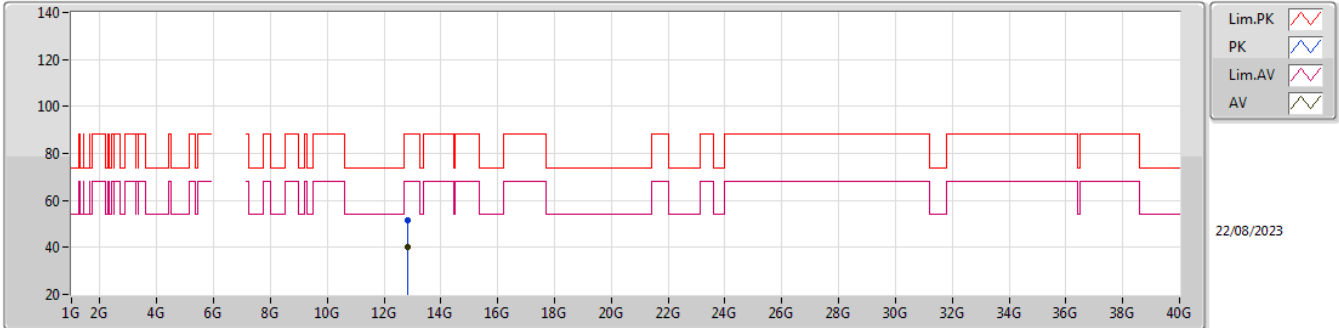


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	12.82476G	52.26	88.20	-35.94	46.85	3	Vertical	282	1.25	-	38.95	9.29	42.83			
AV	12.8227G	40.19	68.20	-28.01	34.78	3	Vertical	282	1.25	-	38.95	9.29	42.83			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

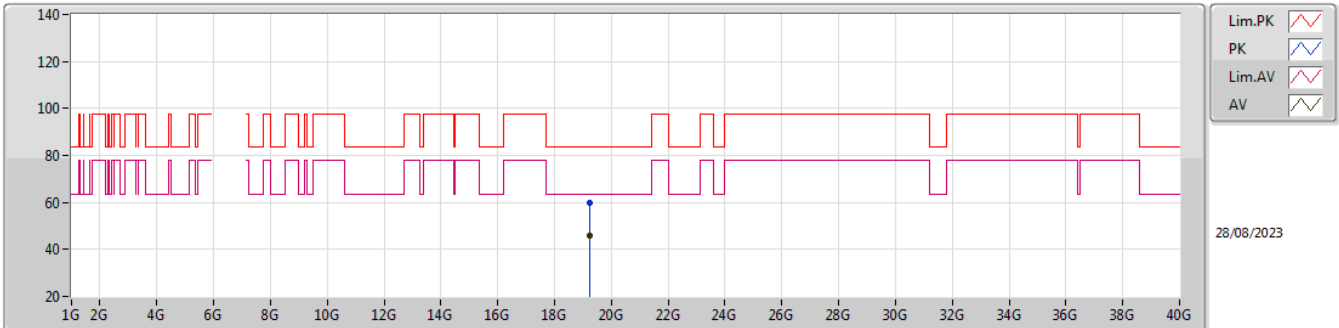


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	12.8394G	51.81	88.20	-36.39	46.35	3	Horizontal	207	2.40	-	38.98	9.29	42.81			
AV	12.826G	40.23	68.20	-27.97	34.81	3	Horizontal	207	2.40	-	38.95	9.29	42.82			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

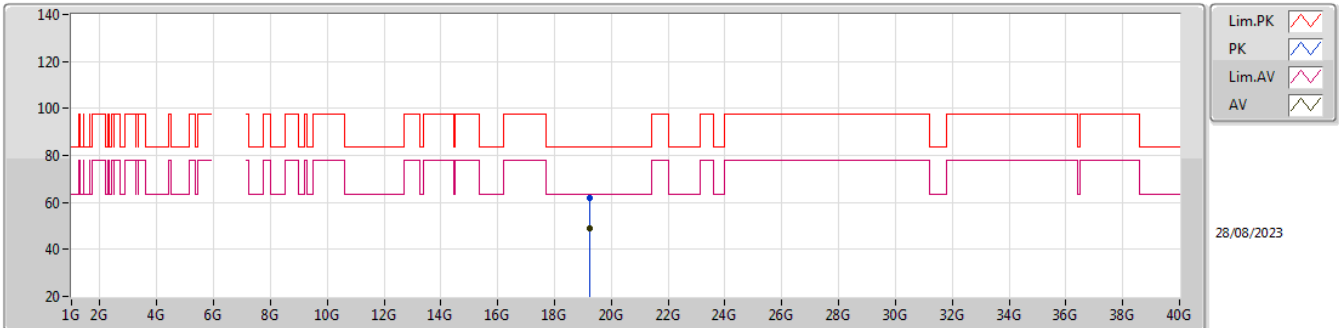


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	19.2555G	59.86	83.54	-23.68	56.32	1	Vertical	258	1.79	-	37.70	16.95	51.11			
AV	19.24578G	46.10	63.54	-17.44	42.54	1	Vertical	258	1.79	-	37.70	16.95	51.09			

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

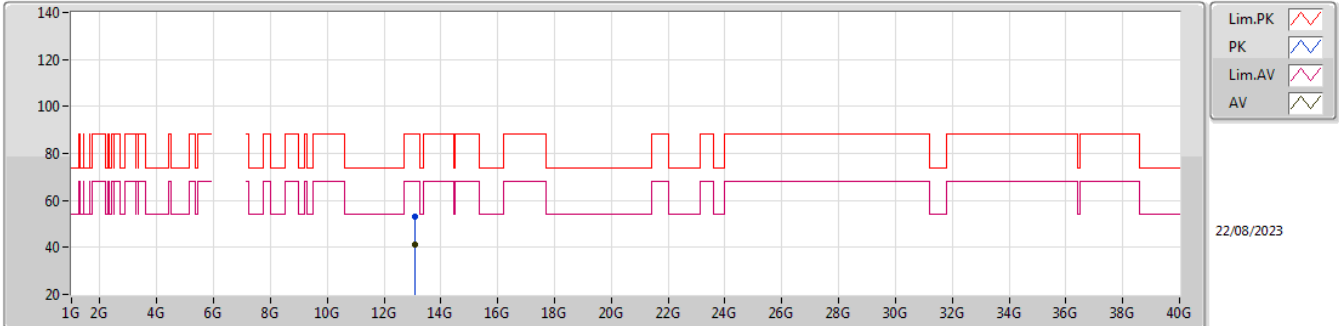


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	19.23714G	61.89	83.54	-21.65	58.31	1	Horizontal	230	1.80	-	37.71	16.95	51.08			
AV	19.24602G	48.92	63.54	-14.62	45.37	1	Horizontal	230	1.80	-	37.70	16.95	51.10			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

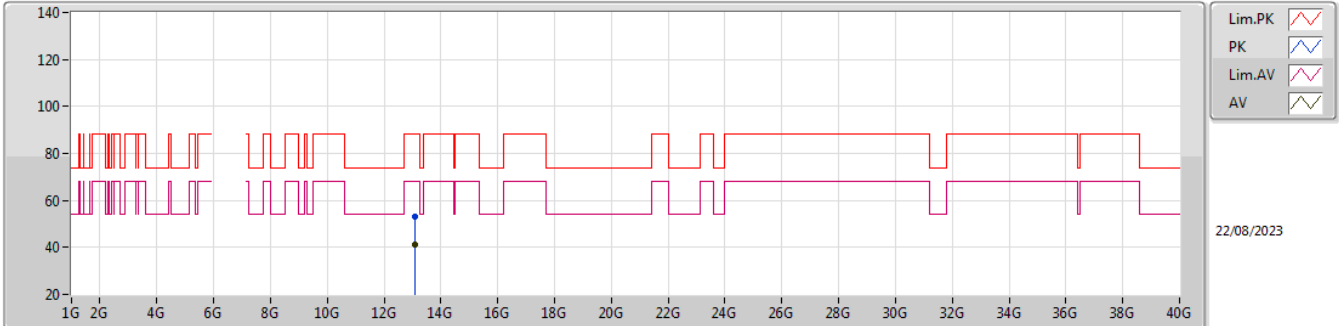


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	13.07372G	53.04	88.20	-35.16	46.69	3	Vertical	141	2.25	-	39.64	9.38	42.67			
AV	13.07948G	41.23	68.20	-26.97	34.84	3	Vertical	141	2.25	-	39.68	9.38	42.67			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

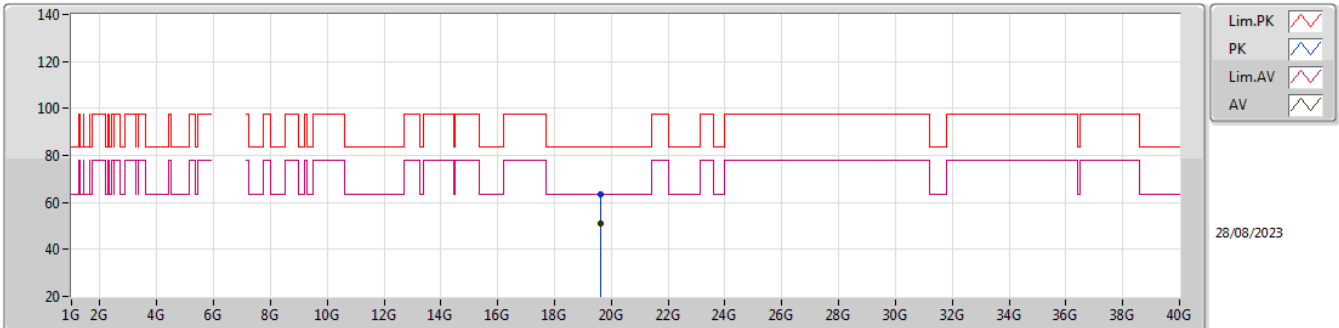


EUT V_1TX
Setting 25
02-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	13.07604G	53.15	88.20	-35.05	46.78	3	Horizontal	286	2.27	-	39.66	9.38	42.67			
AV	13.07922G	41.16	68.20	-27.04	34.77	3	Horizontal	286	2.27	-	39.68	9.38	42.67			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

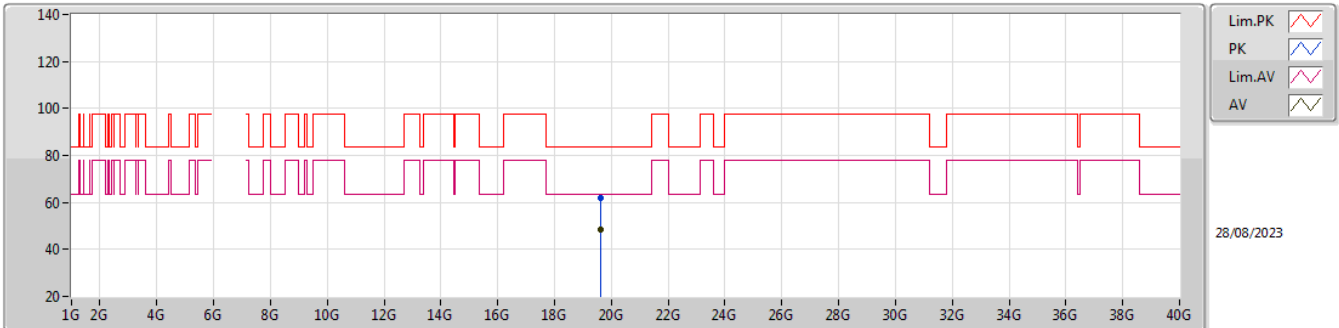


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	19.60752G	63.59	83.54	-19.95	60.16	1	Vertical	229	1.76	-	37.84	17.10	51.51			
AV	19.6071G	50.87	63.54	-12.67	47.44	1	Vertical	229	1.76	-	37.84	17.10	51.51			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

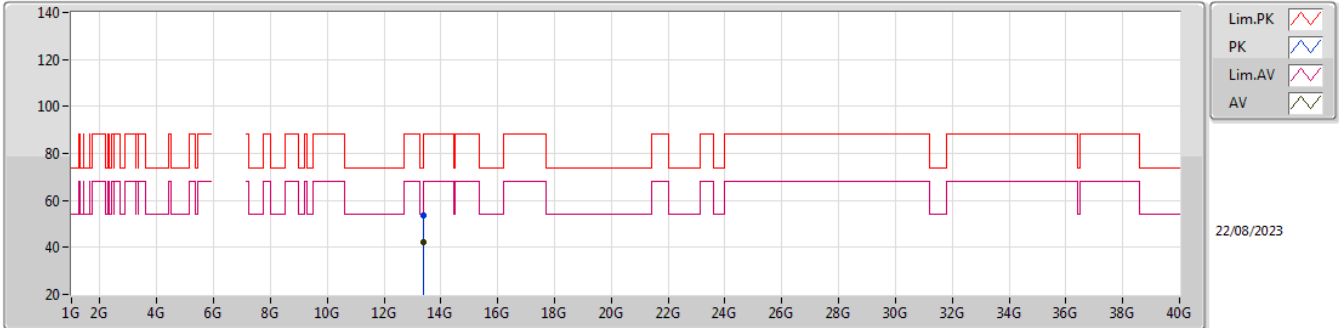


EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	19.61631G	61.83	83.54	-21.71	58.40	1	Horizontal	31	1.76	-	37.85	17.10	51.52			
AV	19.60566G	48.52	63.54	-15.02	45.09	1	Horizontal	31	1.76	-	37.84	17.10	51.51			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

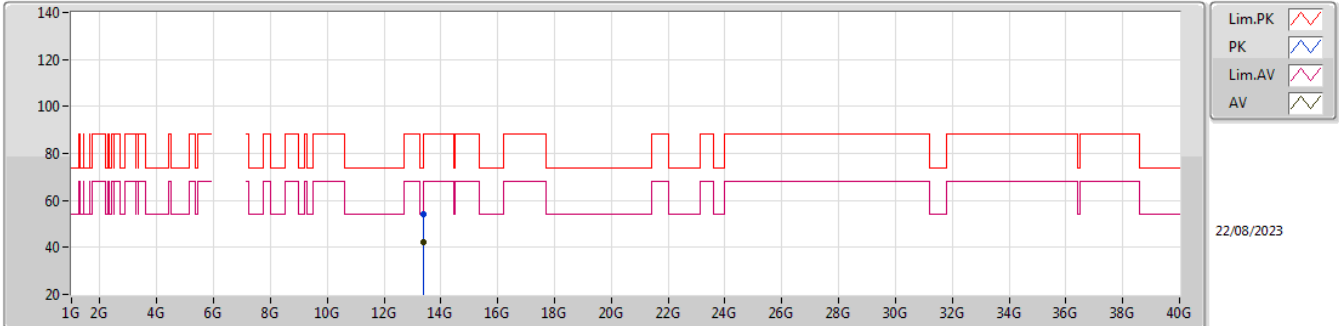


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	13.38498G	53.83	74.00	-20.17	46.61	3	Vertical	32	2.34	-	40.47	9.48	42.73			
AV	13.38072G	42.22	54.00	-11.78	35.01	3	Vertical	32	2.34	-	40.46	9.48	42.73			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

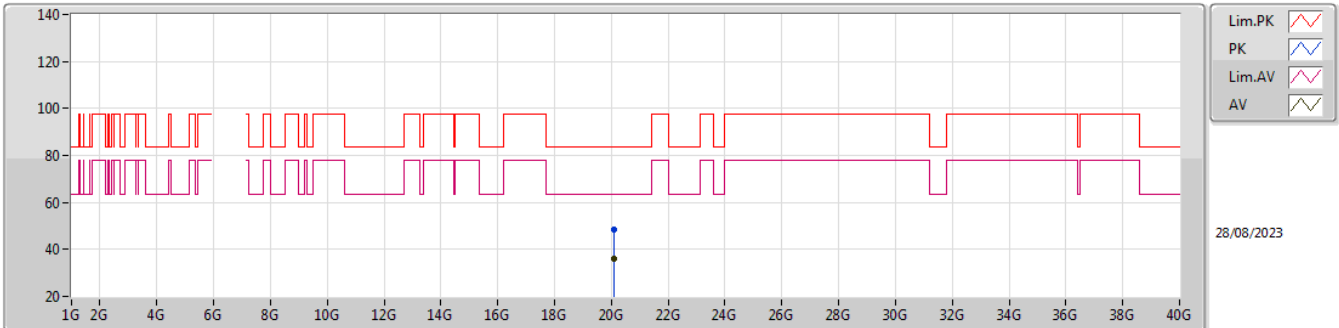


EUT Y_1TX
Setting 25
02-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	13.39806G	53.91	74.00	-20.09	46.66	3	Horizontal	258	1.18	-	40.50	9.49	42.74			
AV	13.38022G	42.28	54.00	-11.72	35.07	3	Horizontal	258	1.18	-	40.46	9.48	42.73			

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX



EUT Y_1TX
Setting 25
01-L-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	20.08494G	48.25	83.54	-35.29	45.34	1	Vertical	25	1.80	-	37.53	17.30	51.92			
AV	20.07879G	36.28	63.54	-27.26	33.38	1	Vertical	25	1.80	-	37.53	17.29	51.92			