



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

Page: 1 of 128

FCC ID: PX8RX04V3S-A

Appendix -

Test Data and Result for report

GZCR251100176501 (B)

(For UHF-2: 421-430MHz)



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EMC Laboratory

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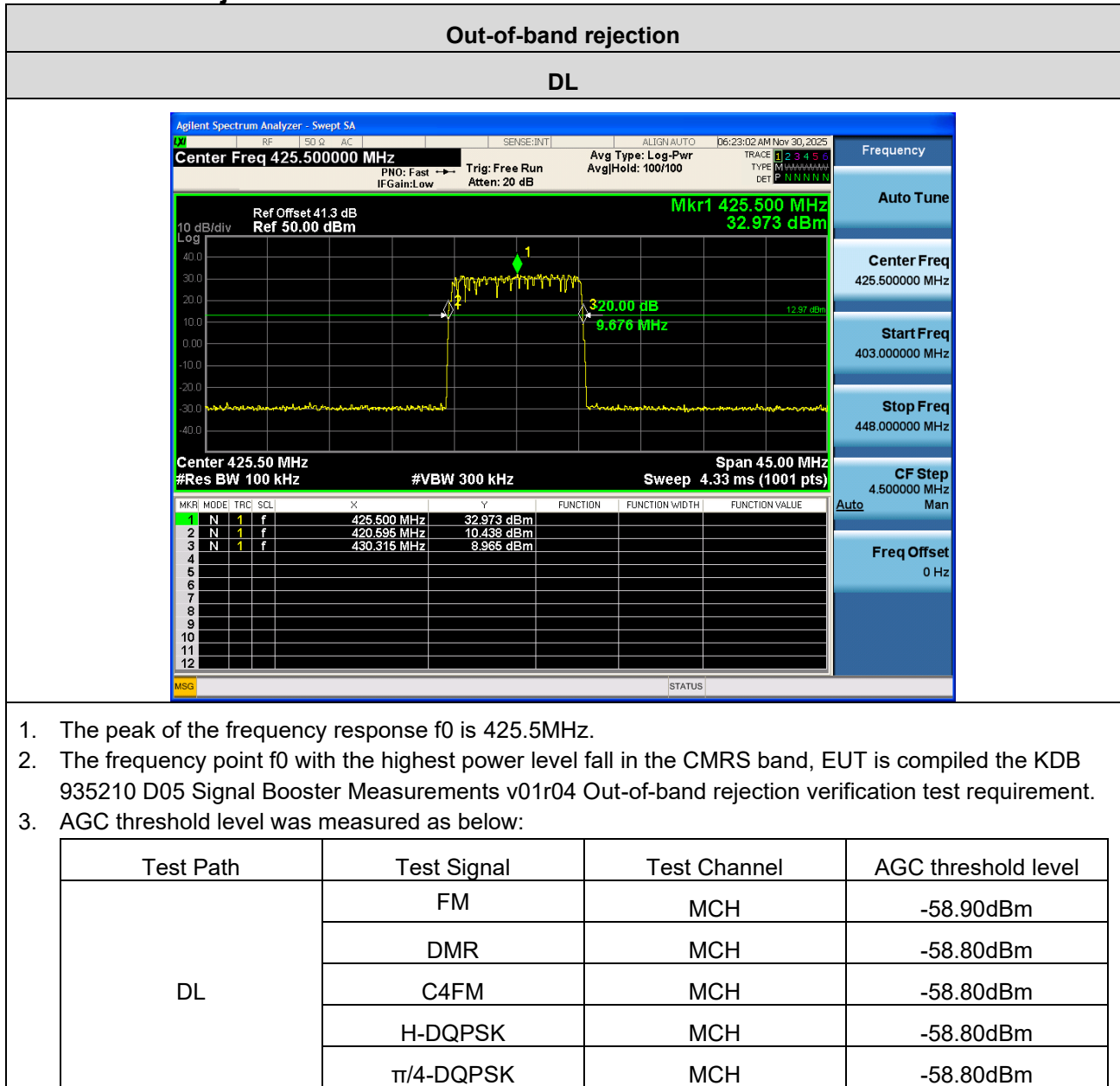
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1 Out-of-band rejection

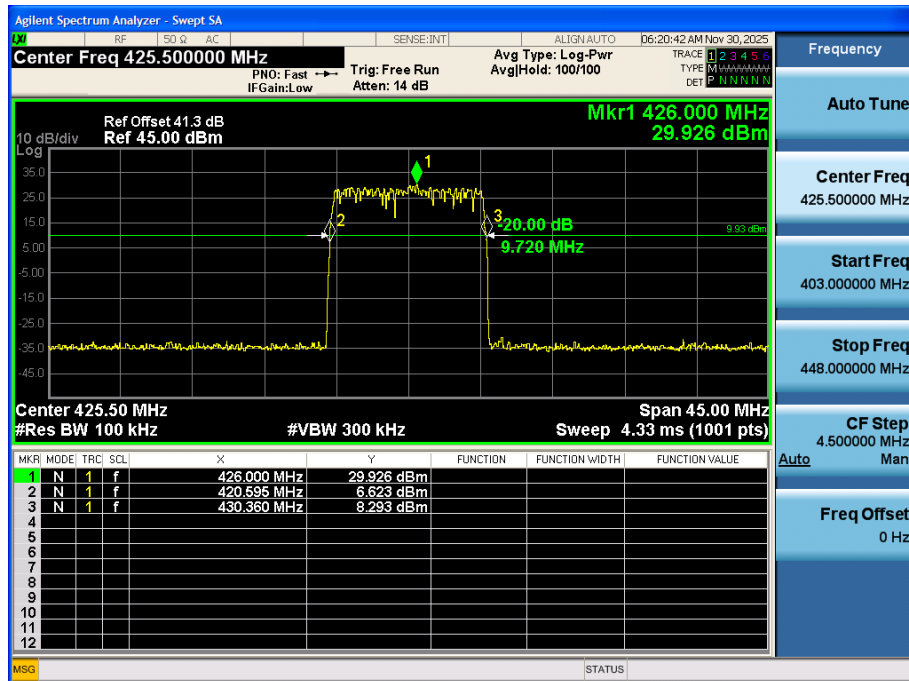


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Out-of-band rejection

UL



1. The peak of the frequency response f0 is 426.0MHz.
2. The frequency point f0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
UL	FM	MCH	-61.80dBm
	DMR	MCH	-61.85dBm
	C4FM	MCH	-61.85dBm
	H-DQPSK	MCH	-61.85dBm
	$\pi/4$ -DQPSK	MCH	-61.90dBm

2 Input-versus-output signal comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	DMR	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	C4FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	H-DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	$\pi/4$ -DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.



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Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
UL	FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	DMR	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	C4FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	H-DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	$\pi/4$ -DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

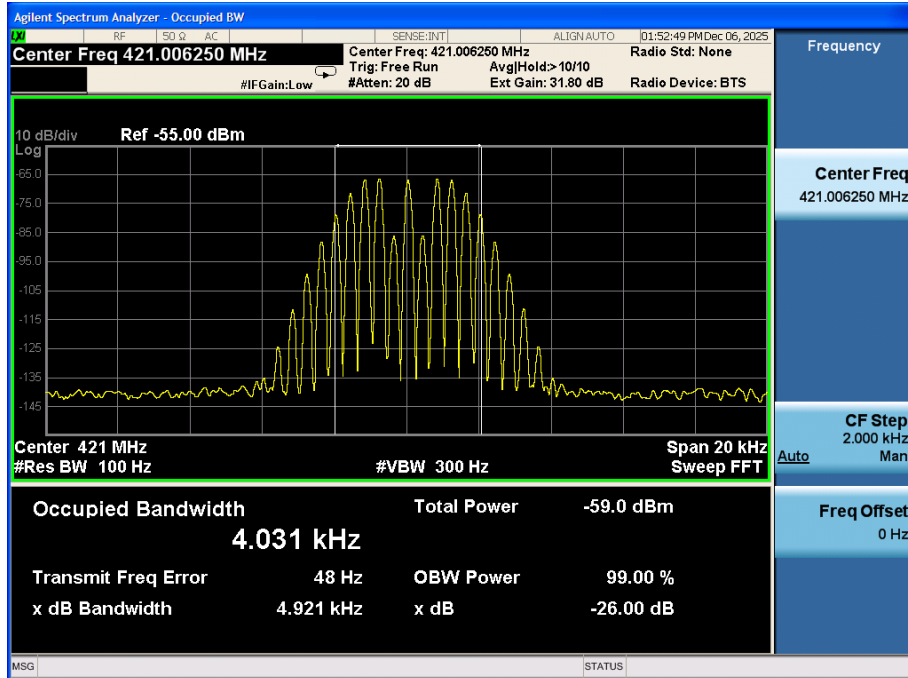


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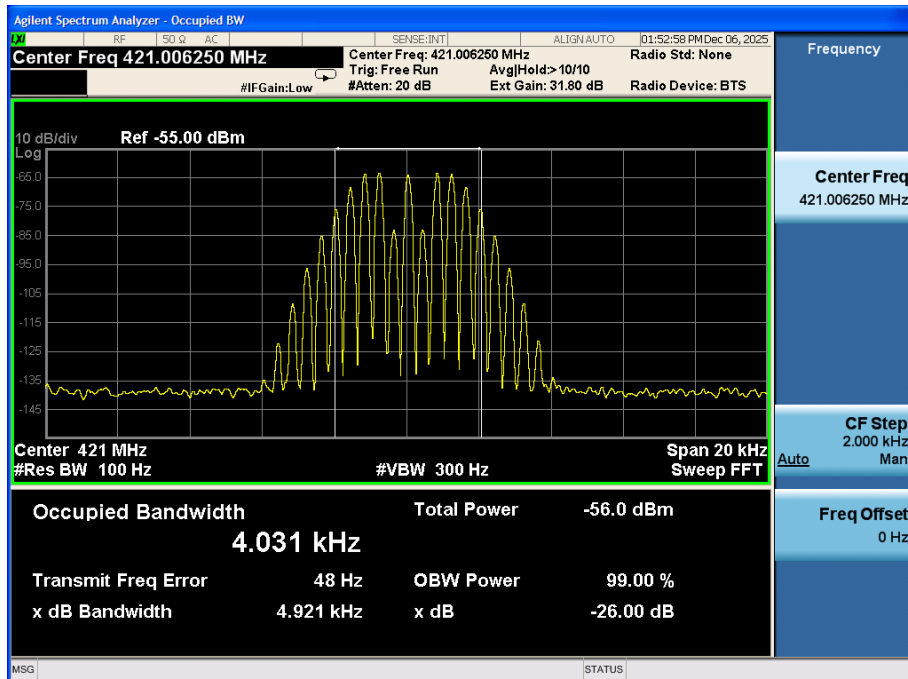
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DL_FM_LCH_Input_Pre-AGC



DL_FM_LCH_Input_3dB above AGC

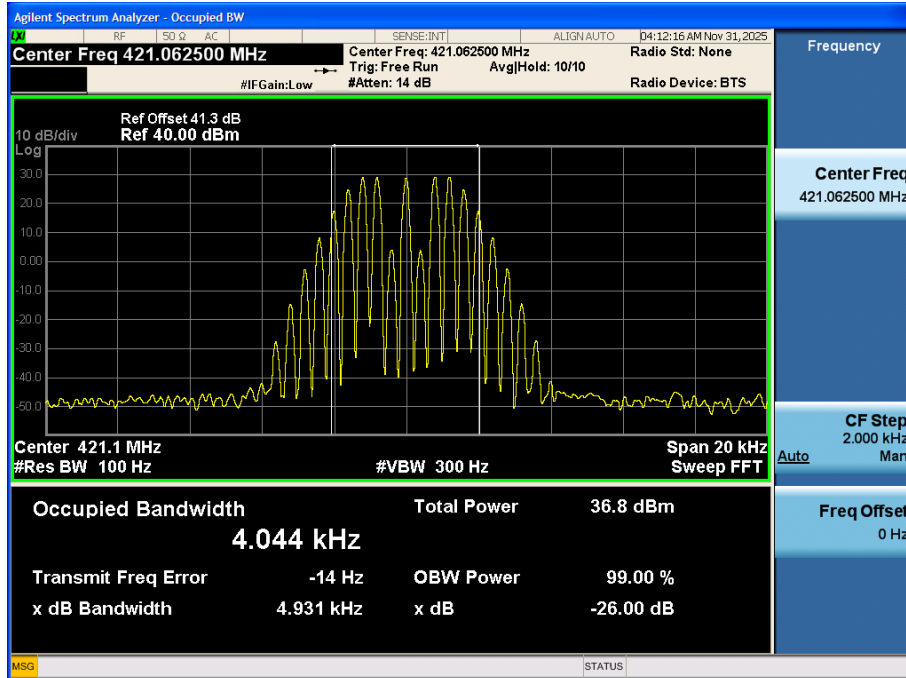


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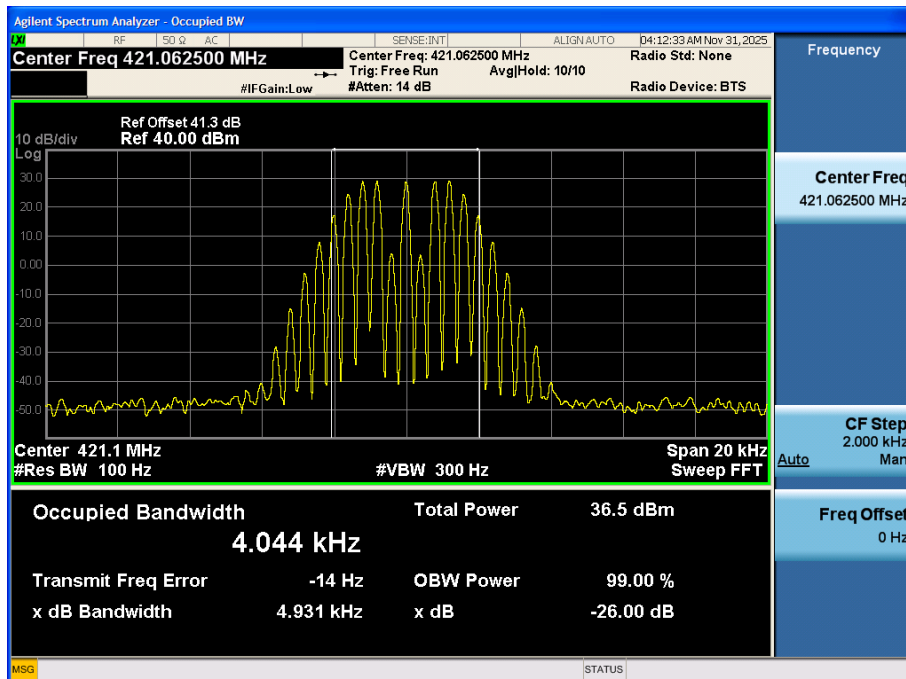
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DL_FM_LCH_Output_Pre-AGC



DL_FM_LCH_Output_3dB above AGC

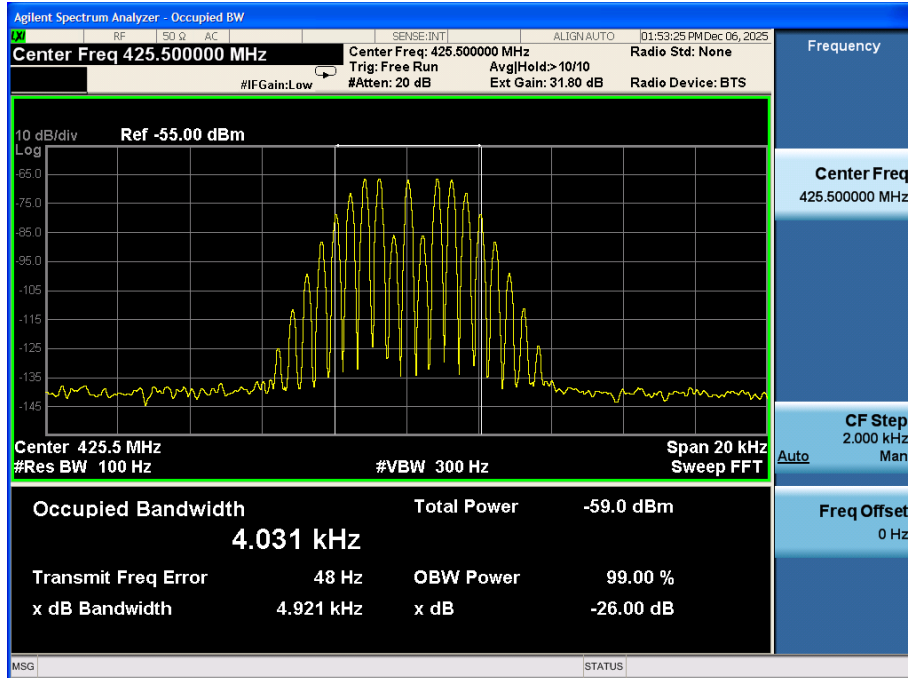


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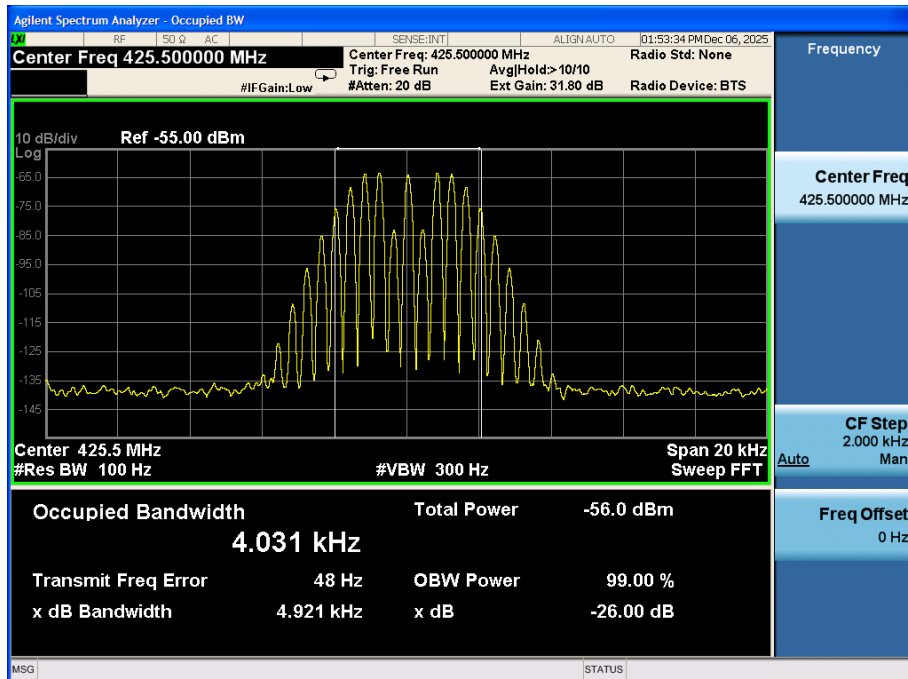
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DL_FM_MCH_Input_Pre-AGC



DL_FM_MCH_Input_3dB above AGC

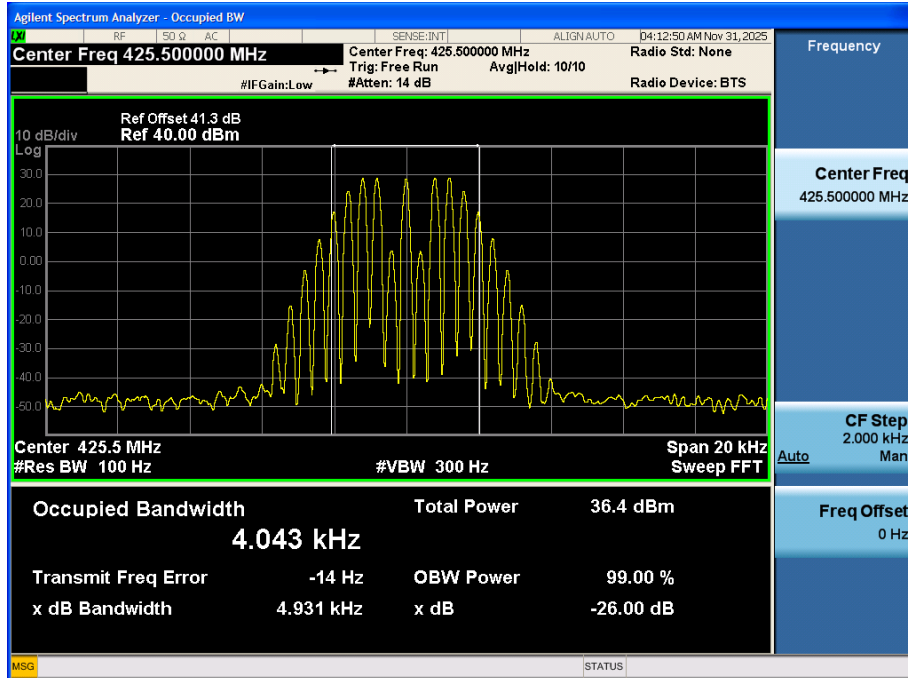


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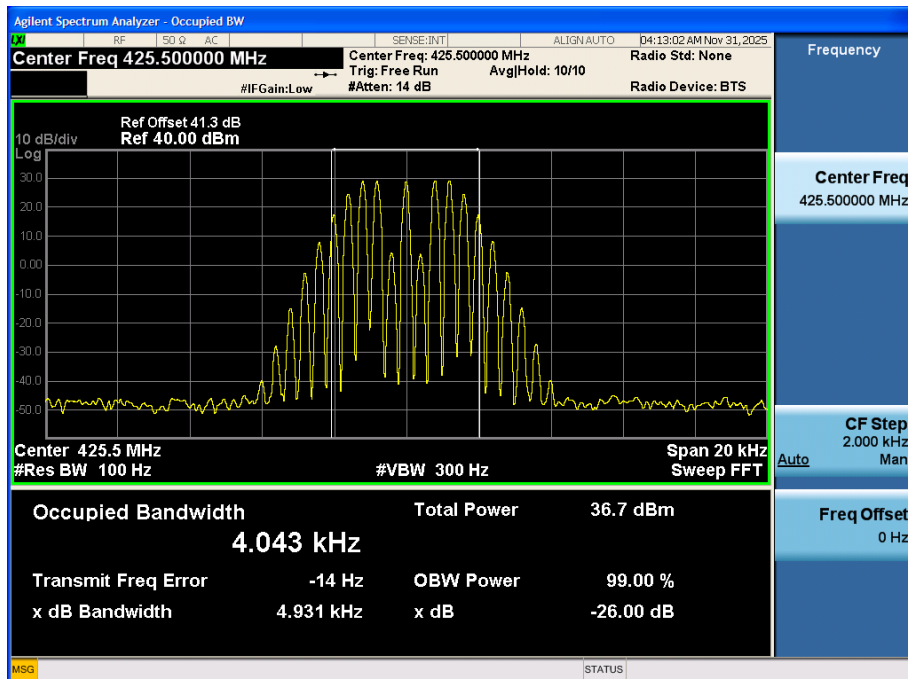
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DL_FM_MCH_Output_Pre-AGC



DL_FM_MCH_Output_3dB above AGC

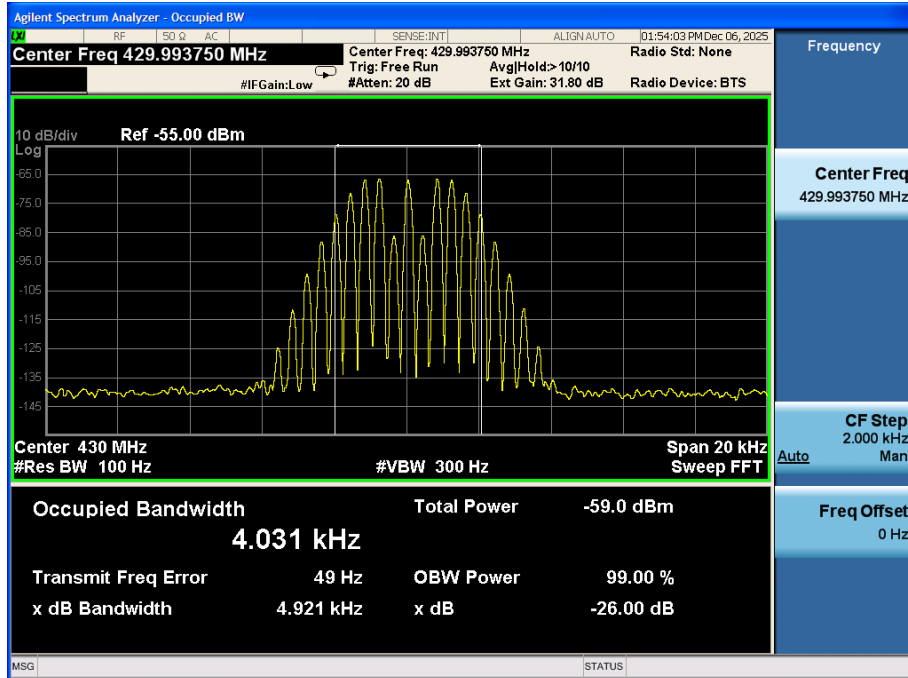


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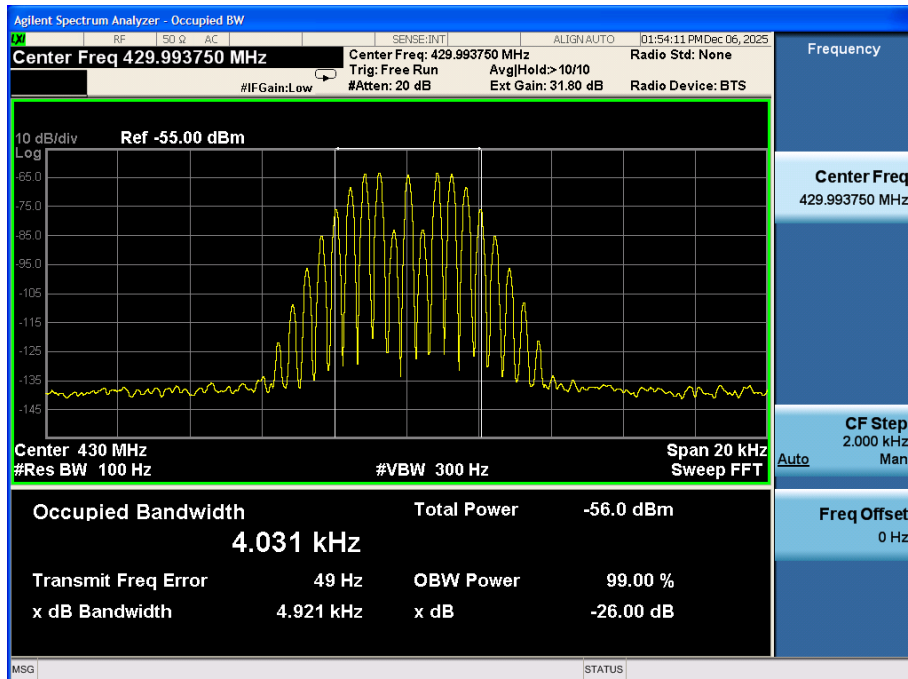
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DL_FM_HCH_Input_Pre-AGC



DL_FM_HCH_Input_3dB above AGC



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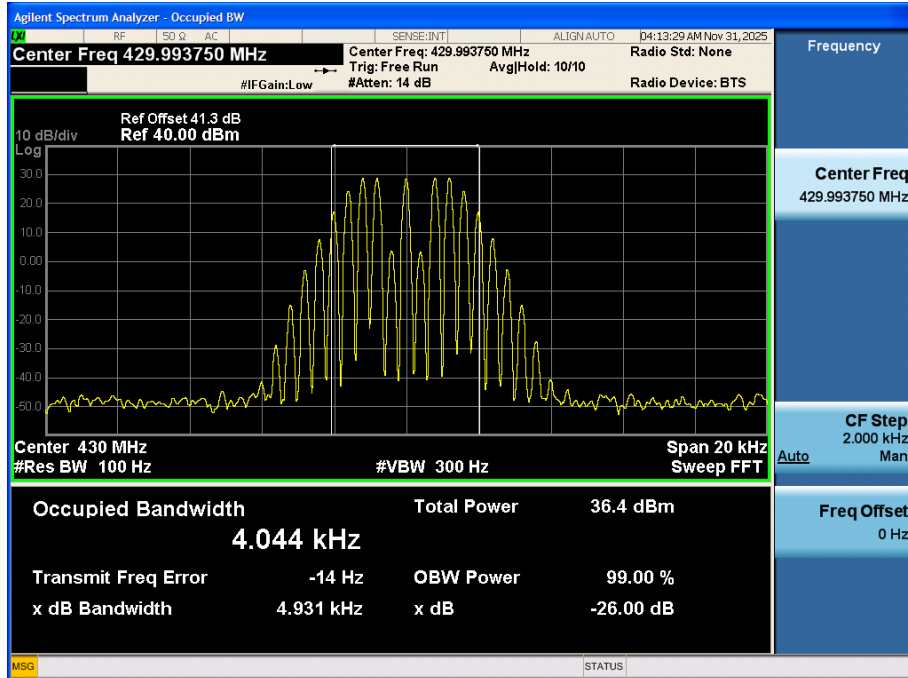
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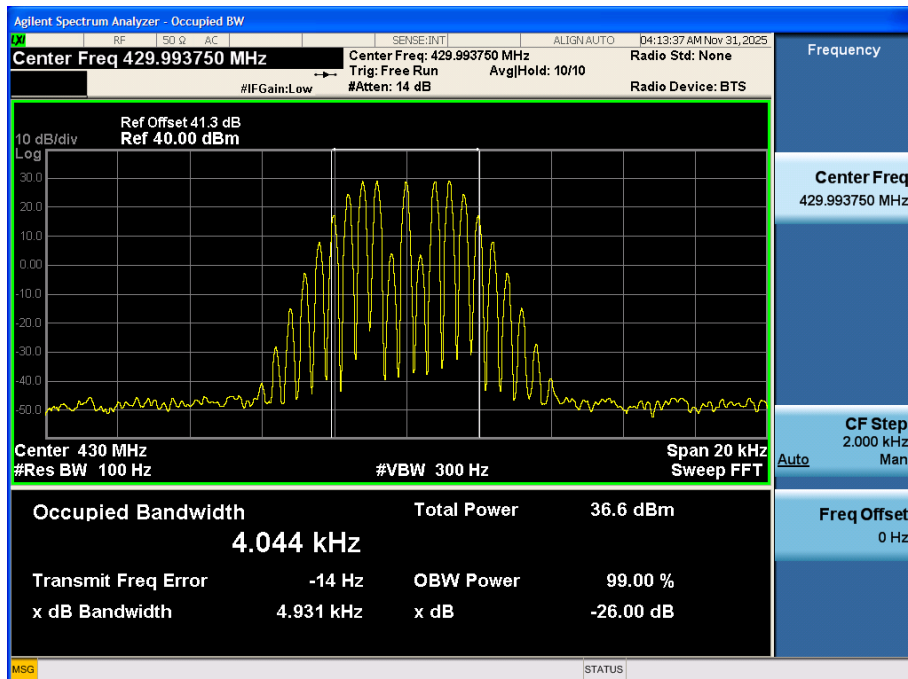
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DL_FM_HCH_Output_Pre-AGC



DL_FM_HCH_Output_3dB above AGC

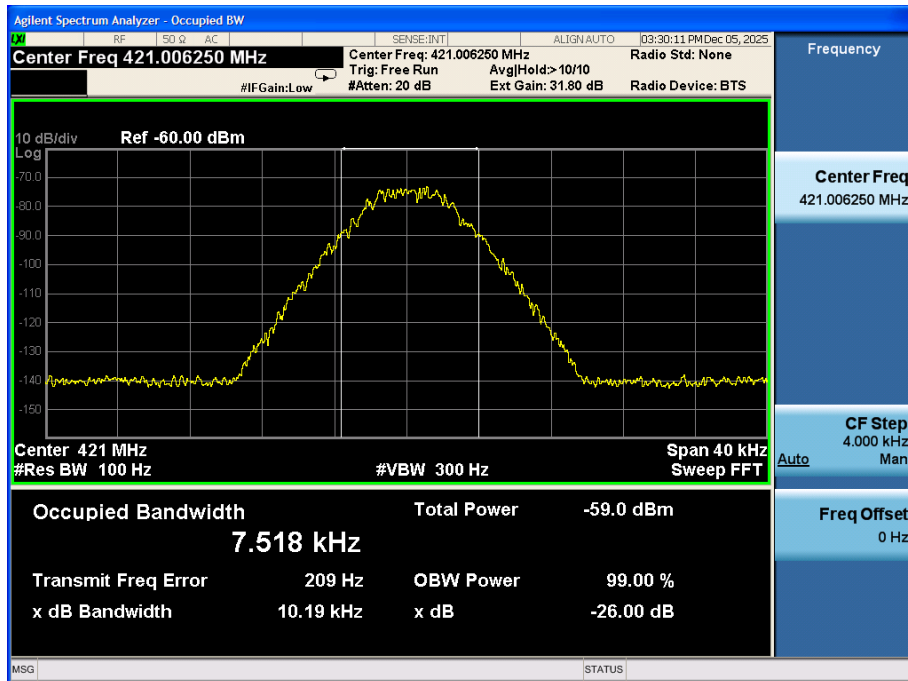


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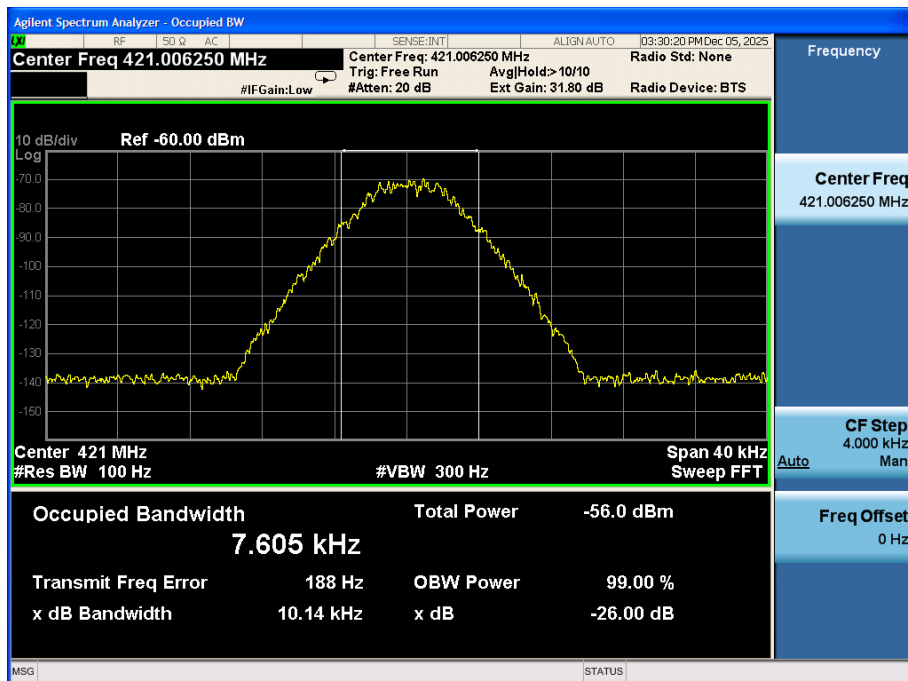
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DL_DMR_LCH_Input_Pre-AGC



DL_DMR_LCH_Input_3dB above AGC



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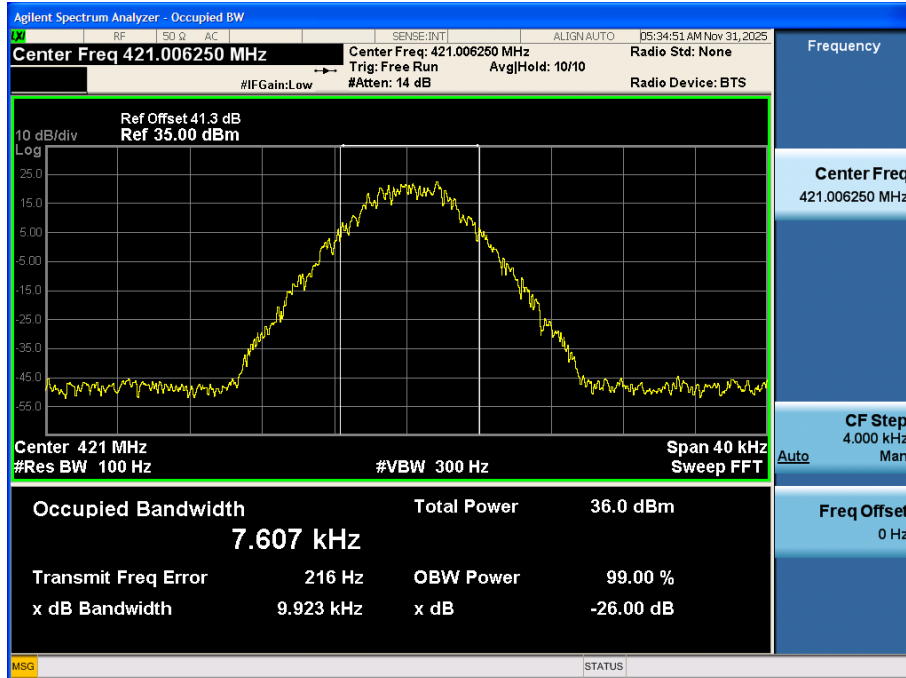
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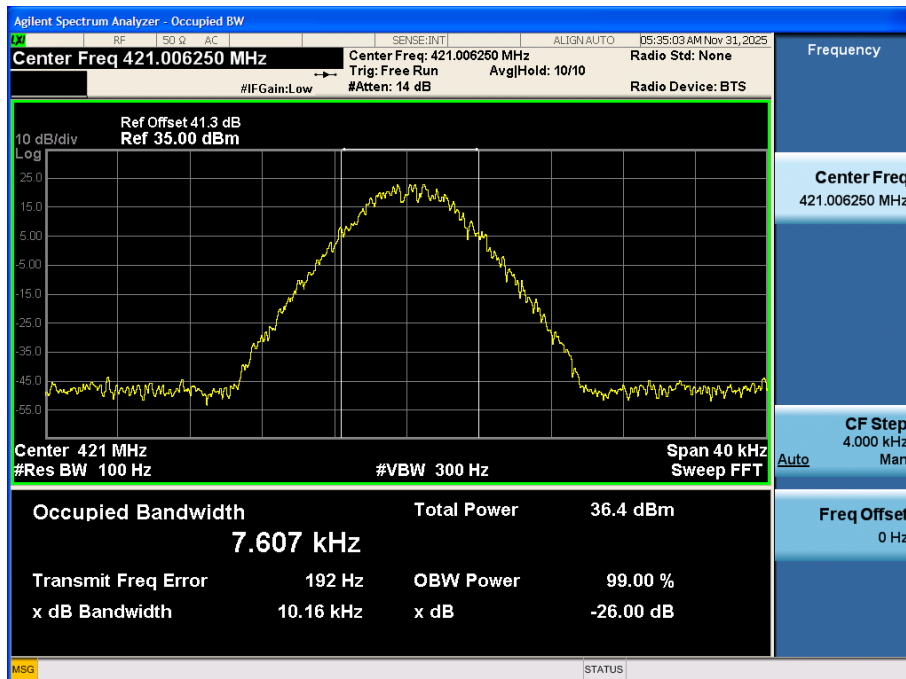
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DL_DMR_LCH_Output_Pre-AGC



DL_DMR_LCH_Output_3dB above AGC

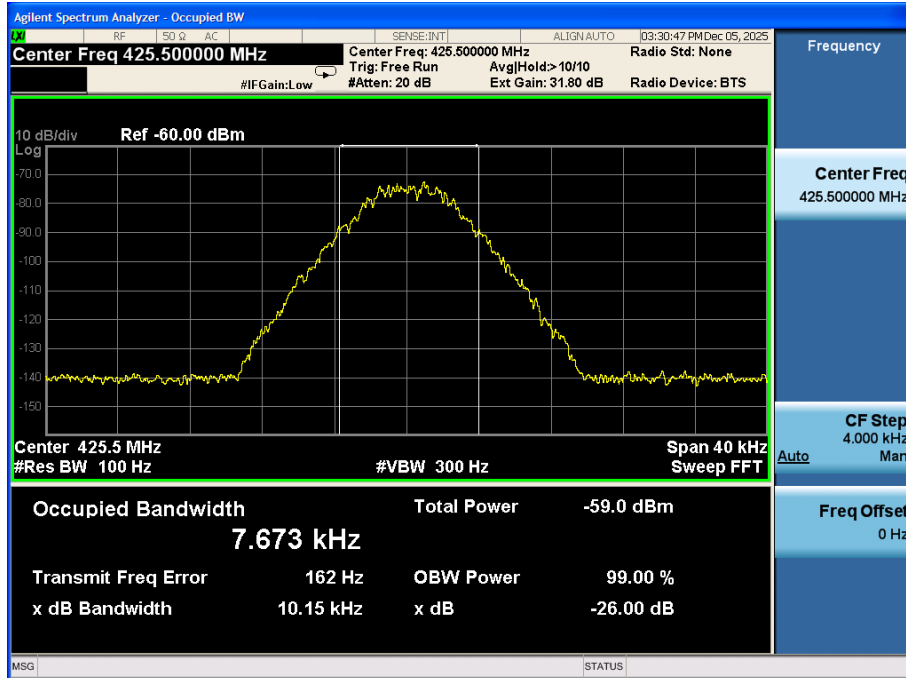


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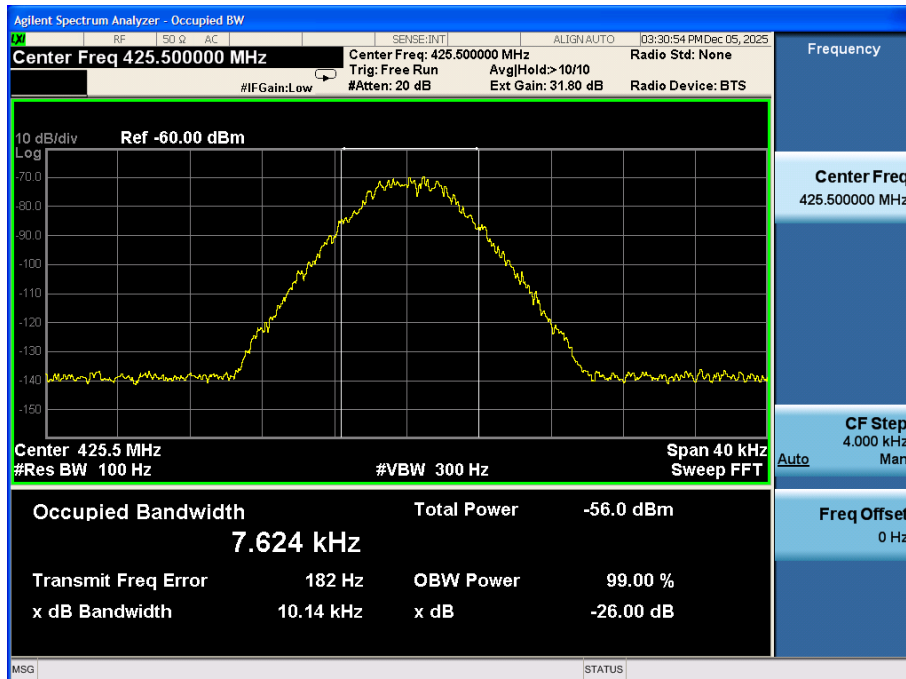
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DL_DMR_MCH_Input_Pre-AGC



DL_DMR_MCH_Input_3dB above AGC



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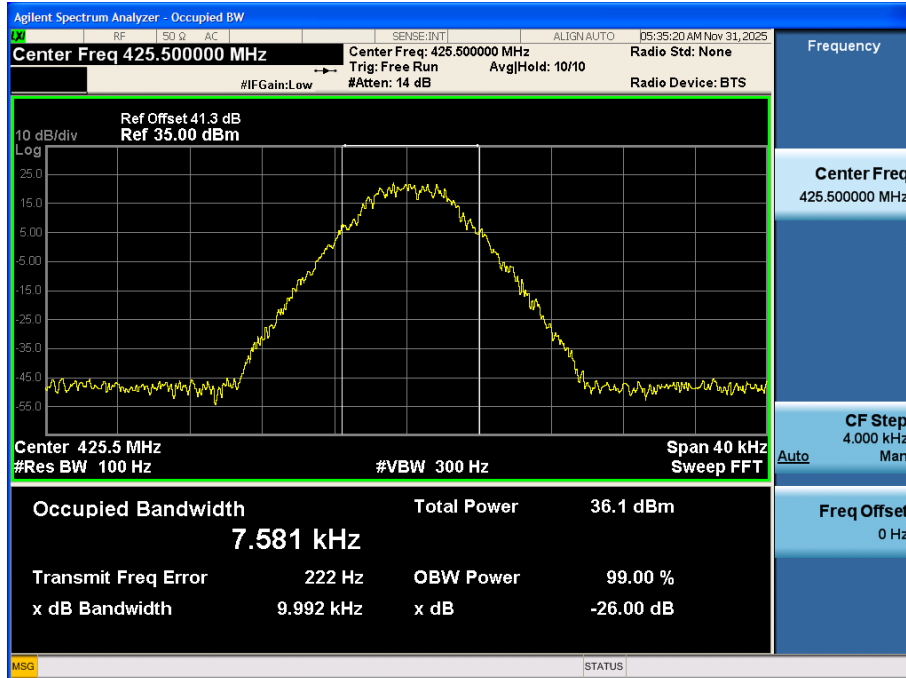
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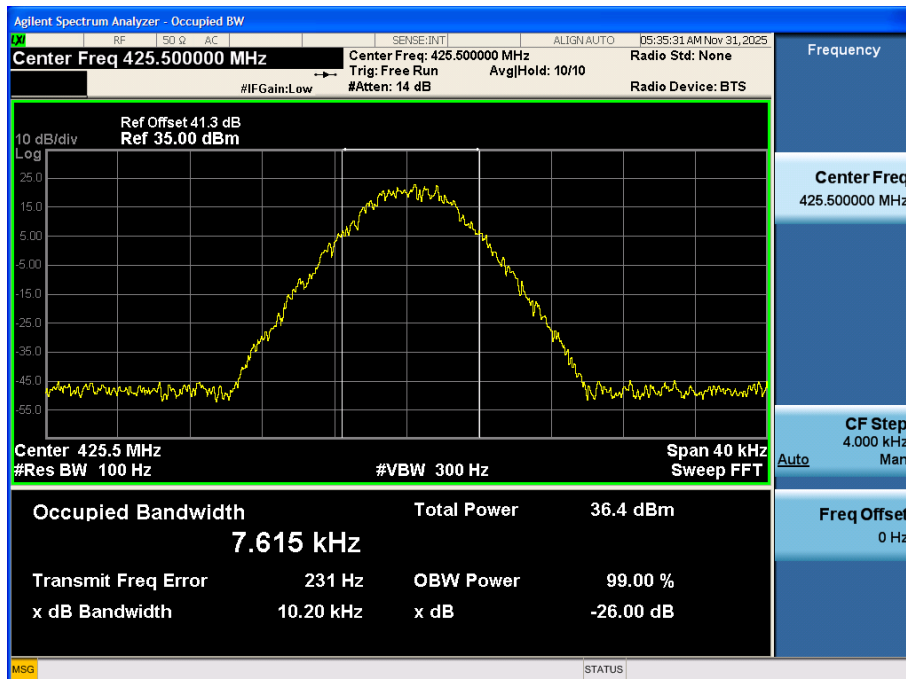
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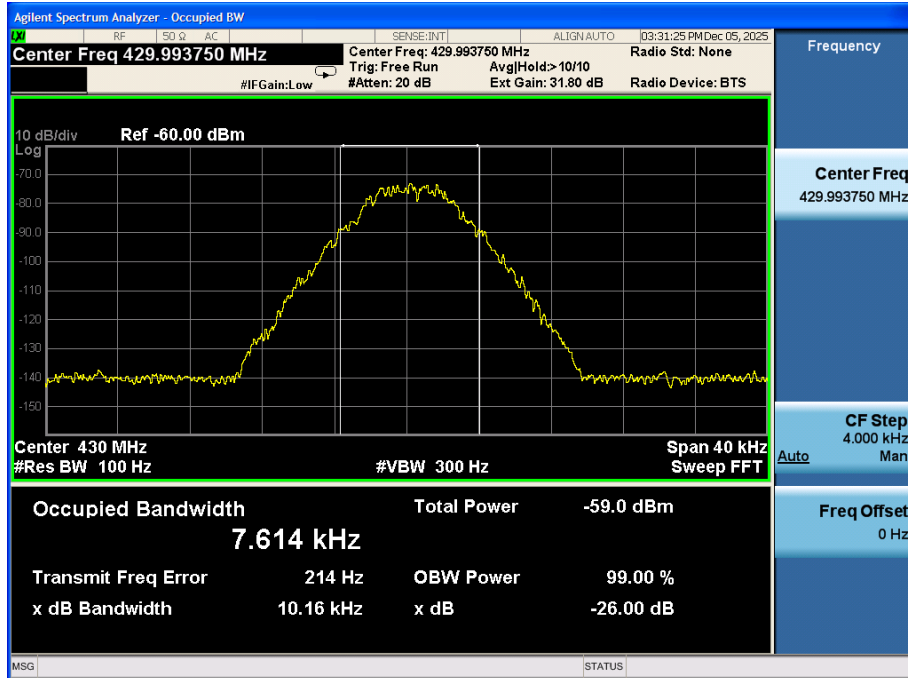
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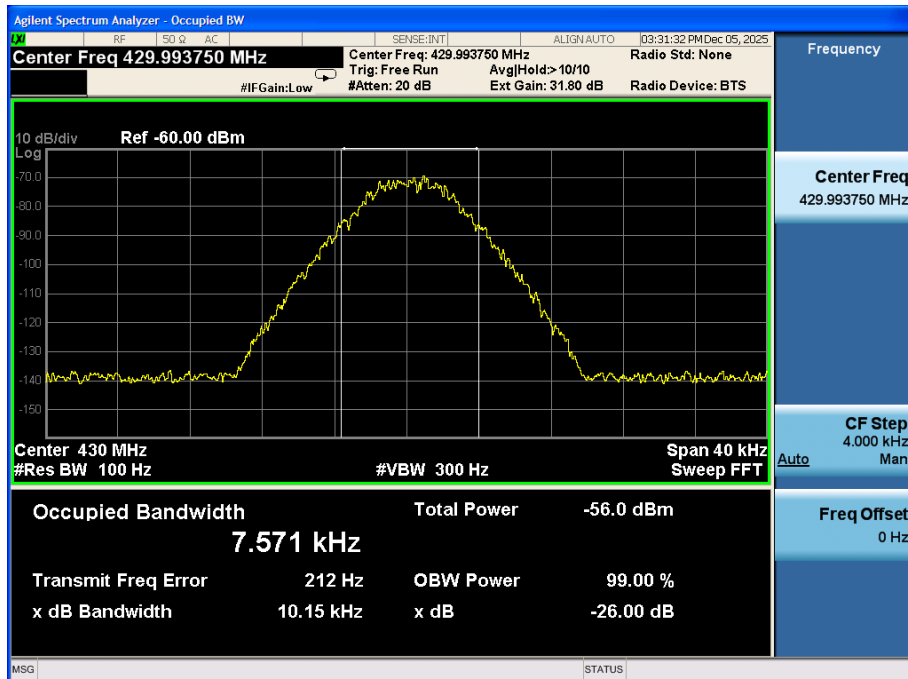
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DL_DMR_HCH_Input_Pre-AGC



DL_DMR_HCH_Input_3dB above AGC

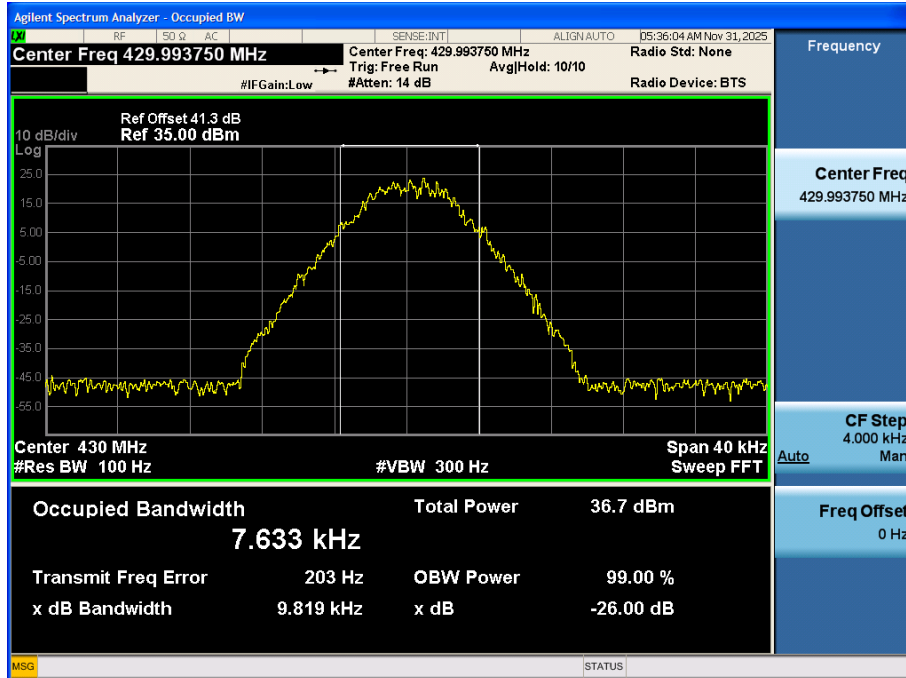


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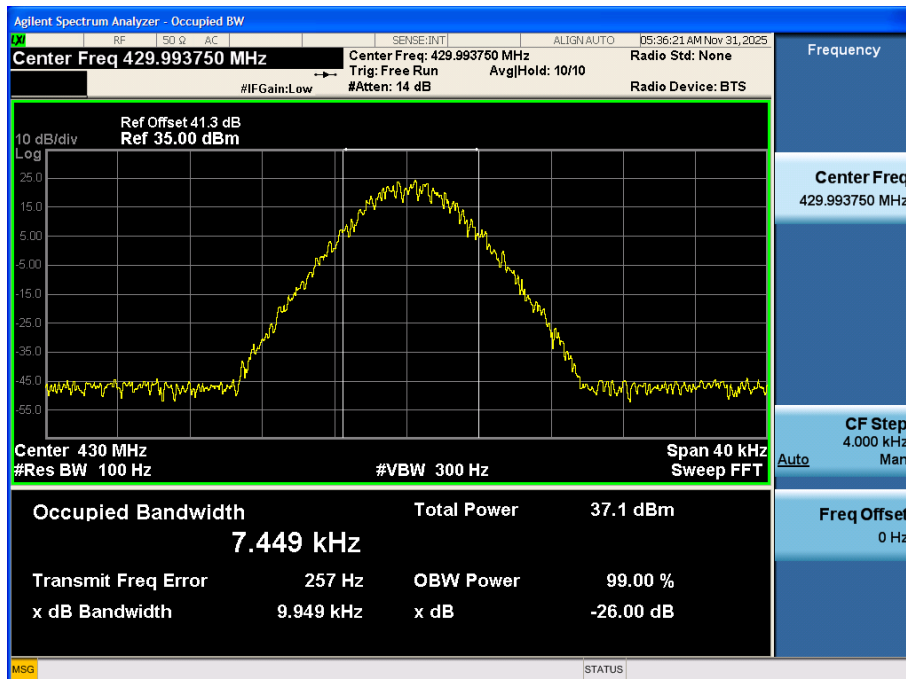
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99% OBW

DL_DMR_HCH_Output_Pre-AGC



DL_DMR_HCH_Output_3dB above AGC



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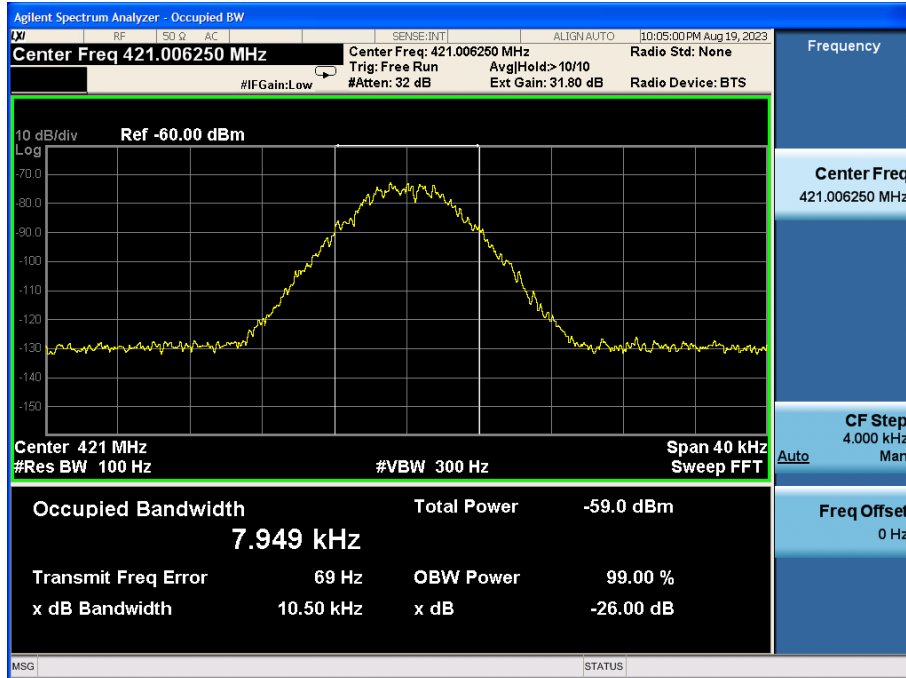
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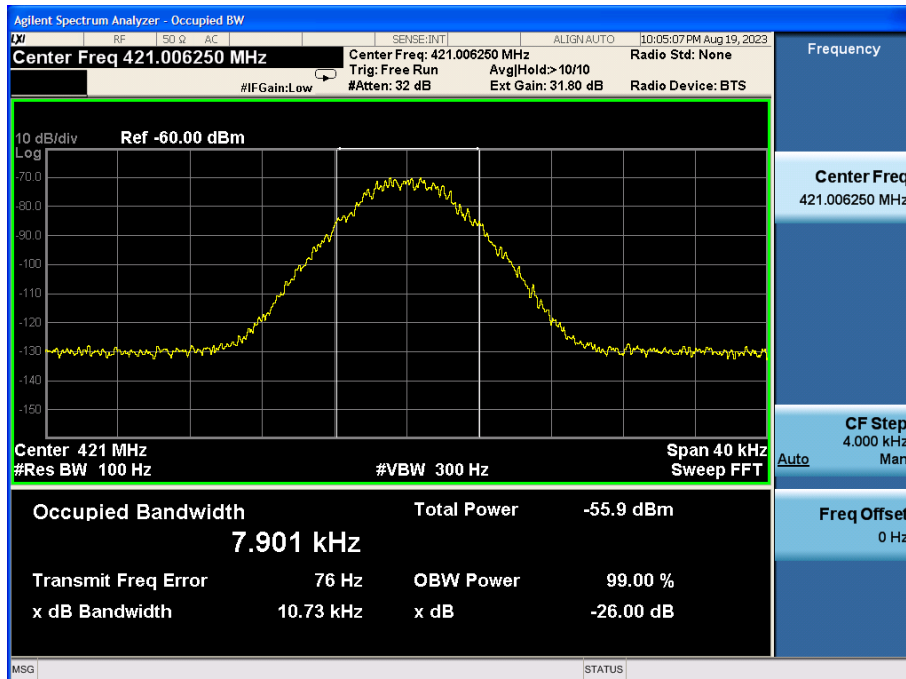
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99% OBW

DL_C4FM_LCH_Input_Pre-AGC



DL_C4FM_LCH_Input_3dB above AGC

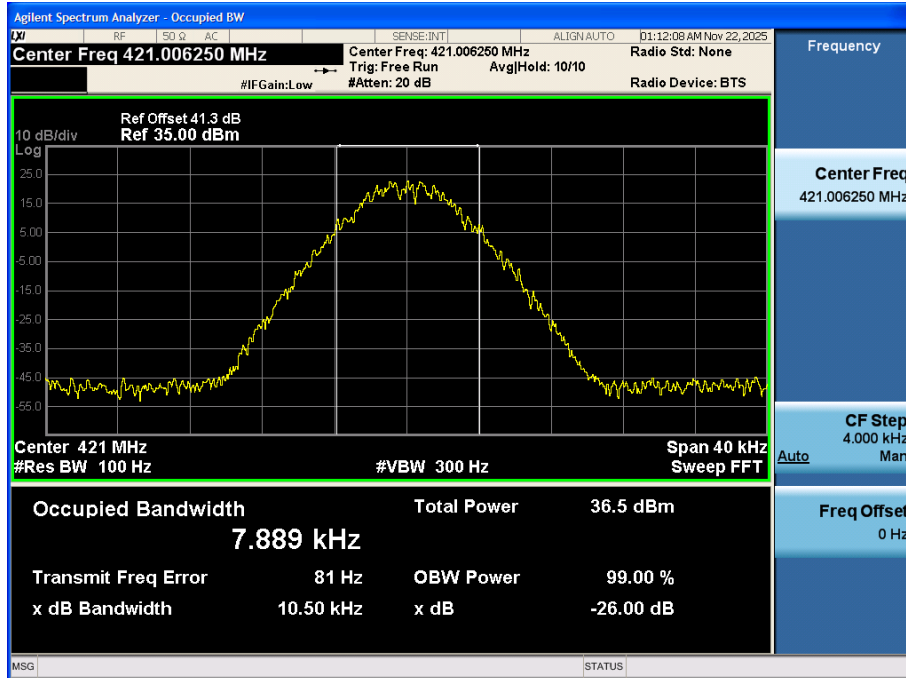


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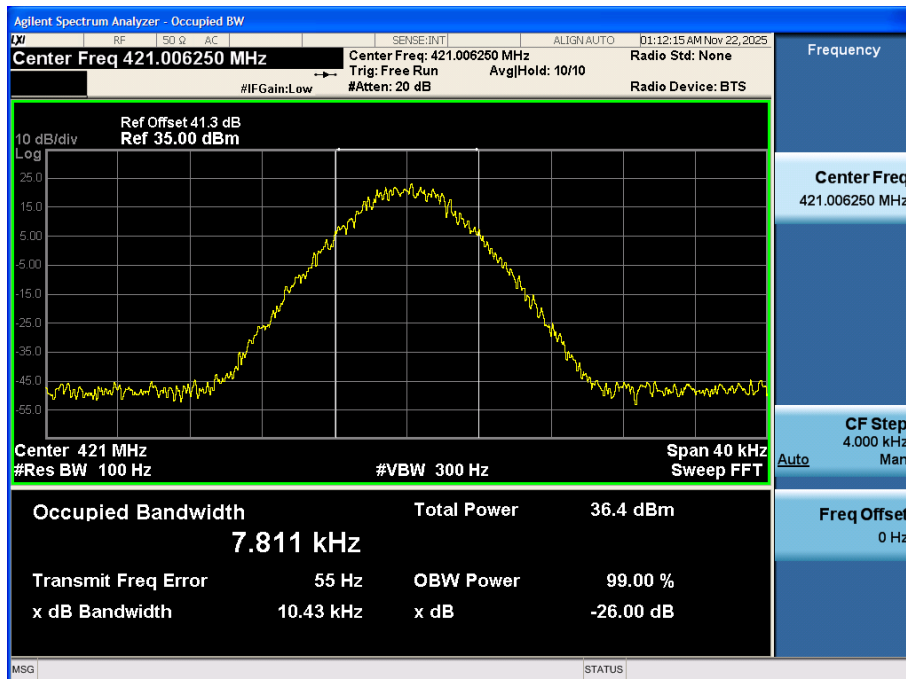
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DL_C4FM_LCH_Output_Pre-AGC



DL_C4FM_LCH_Output_3dB above AGC

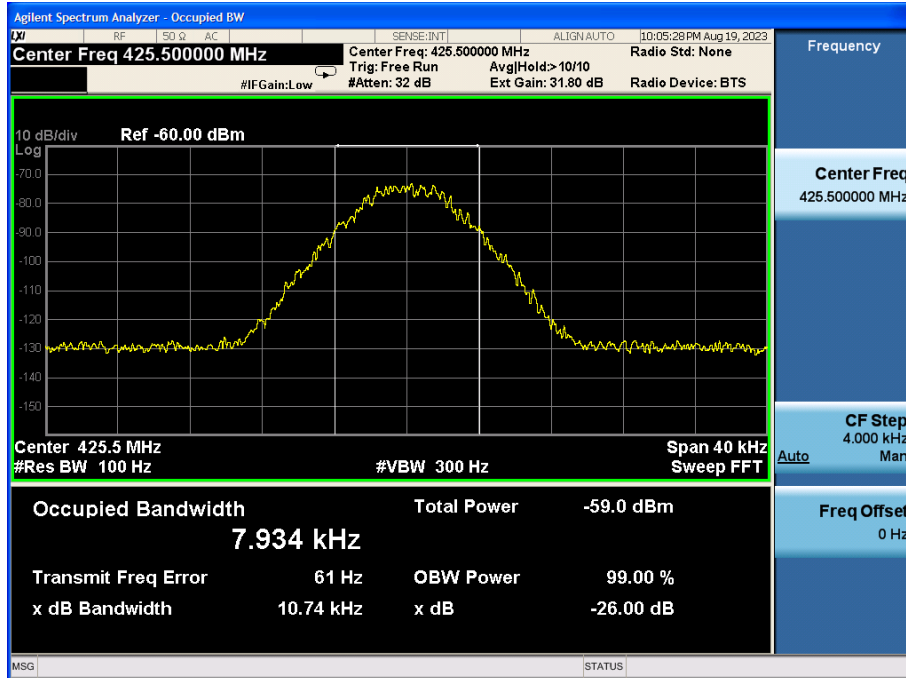


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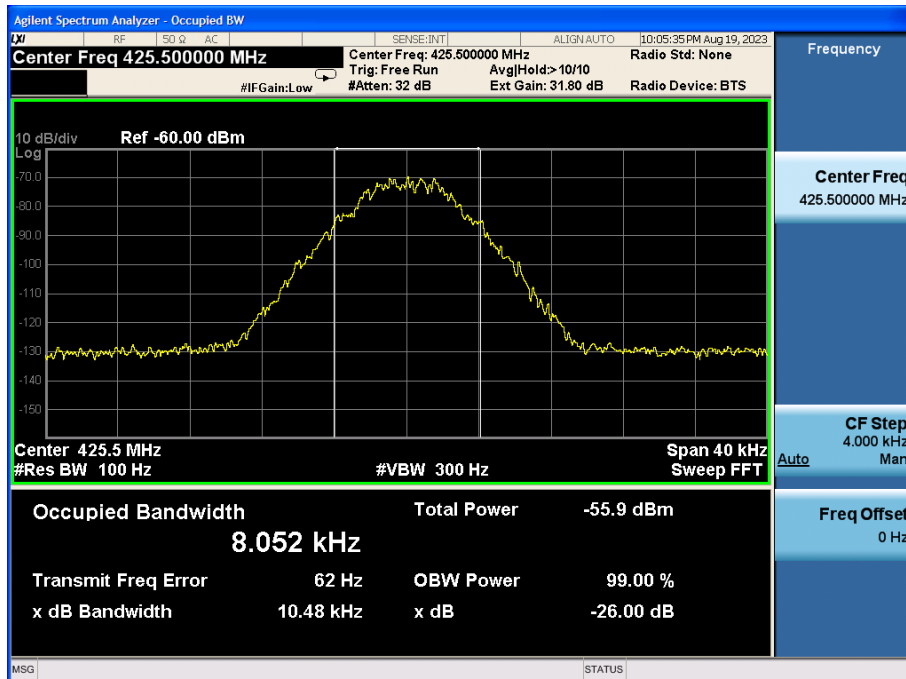
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DL_C4FM_MCH_Input_Pre-AGC



DL_C4FM_MCH_Input_3dB above AGC

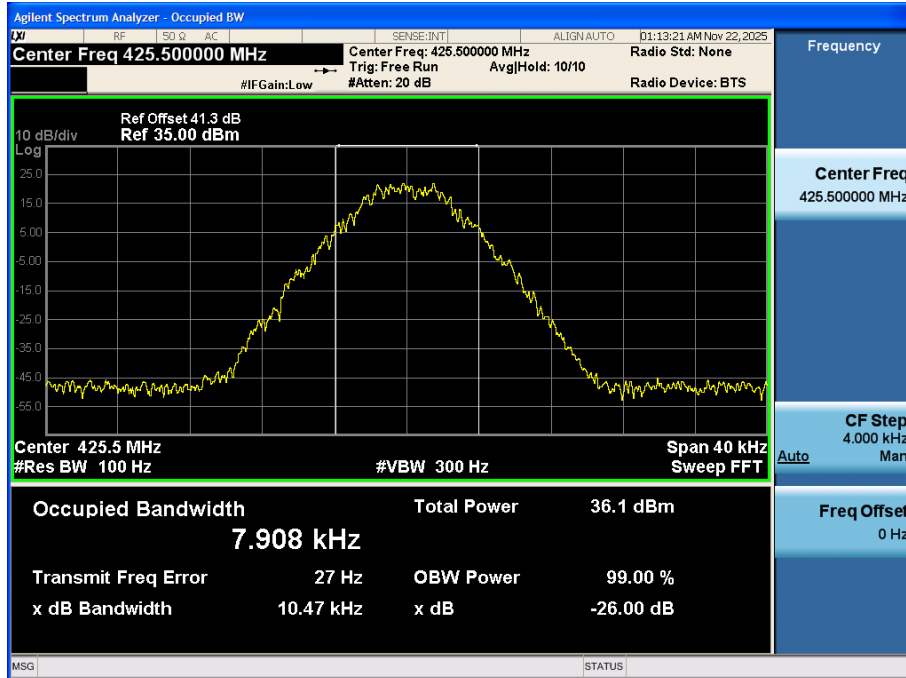


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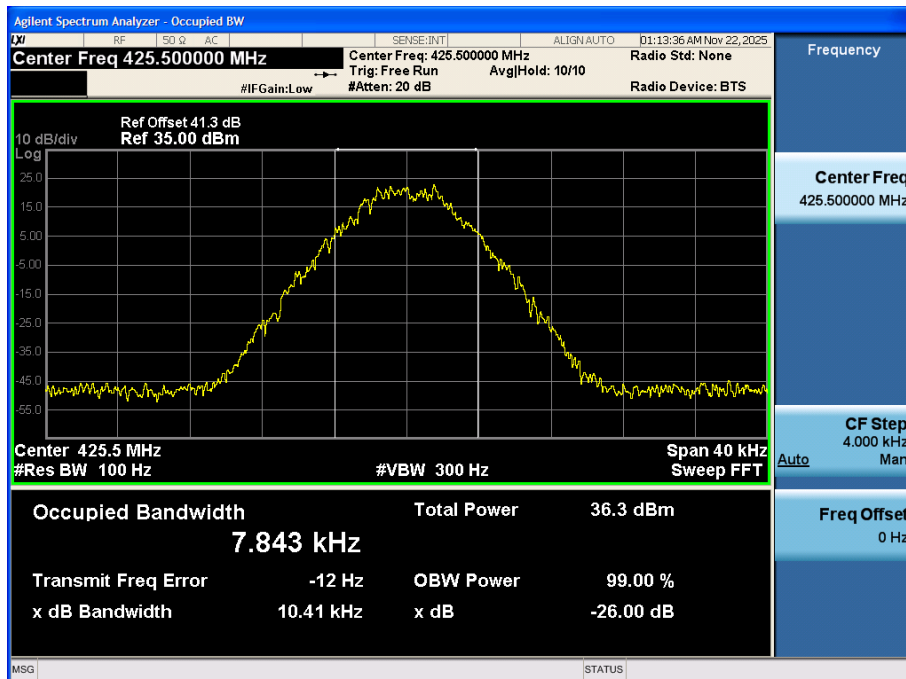
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DL_C4FM_MCH_Output_Pre-AGC



DL_C4FM_MCH_Output_3dB above AGC

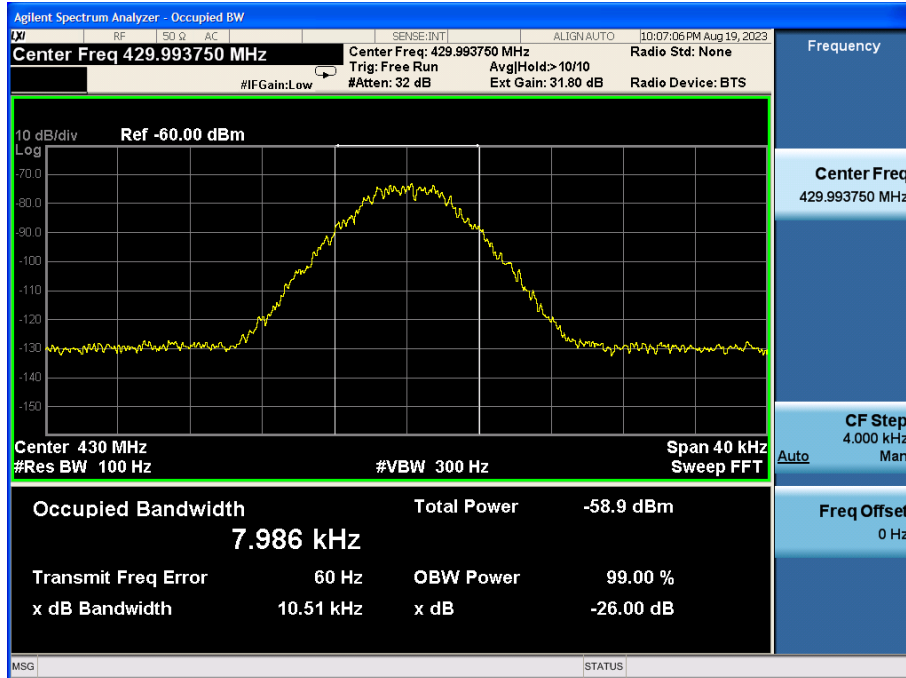


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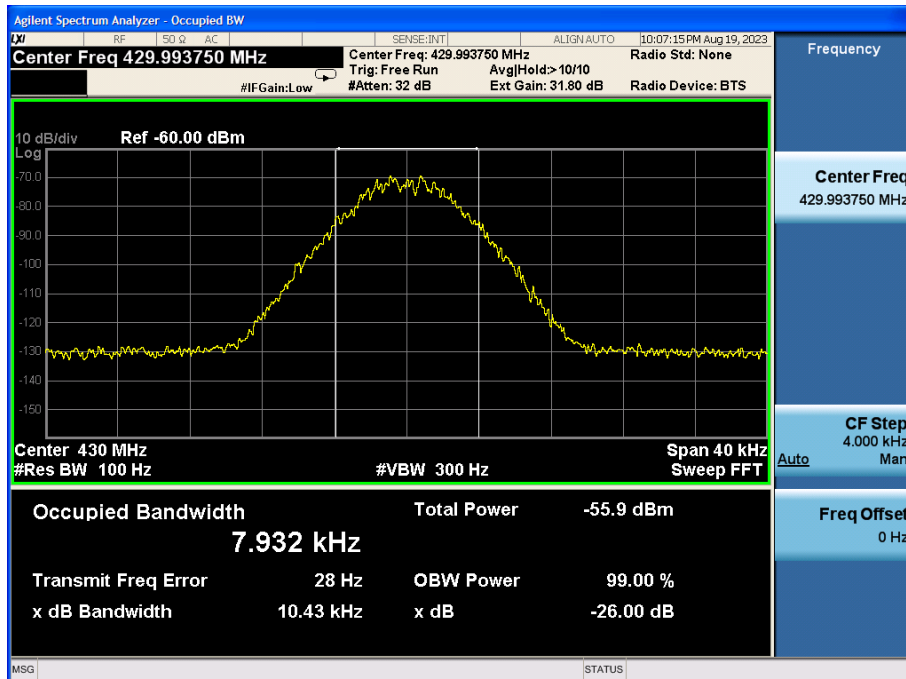
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DL_C4FM_HCH_Input_Pre-AGC



DL_C4FM_HCH_Input_3dB above AGC

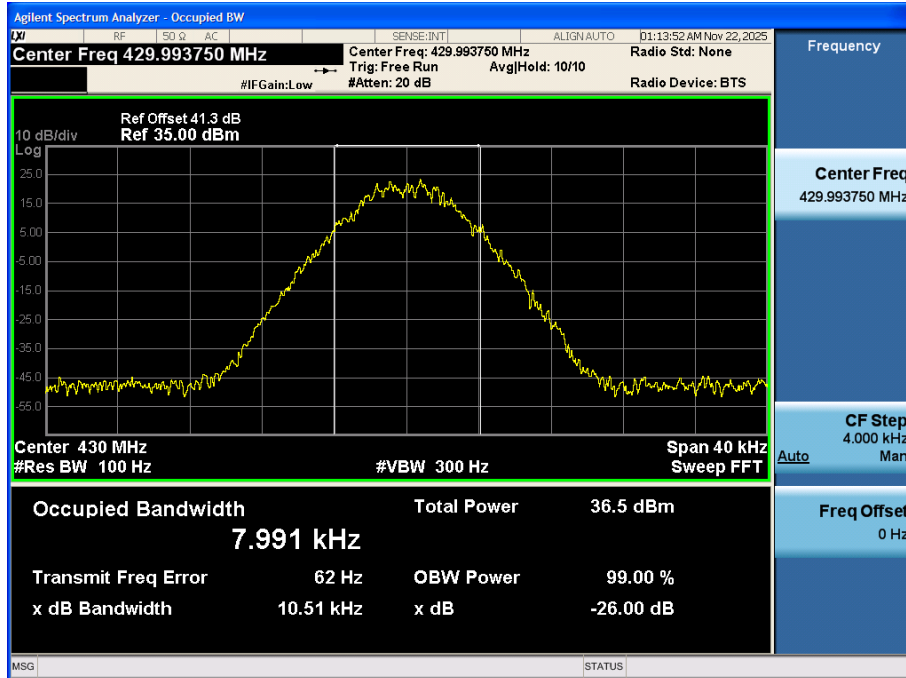


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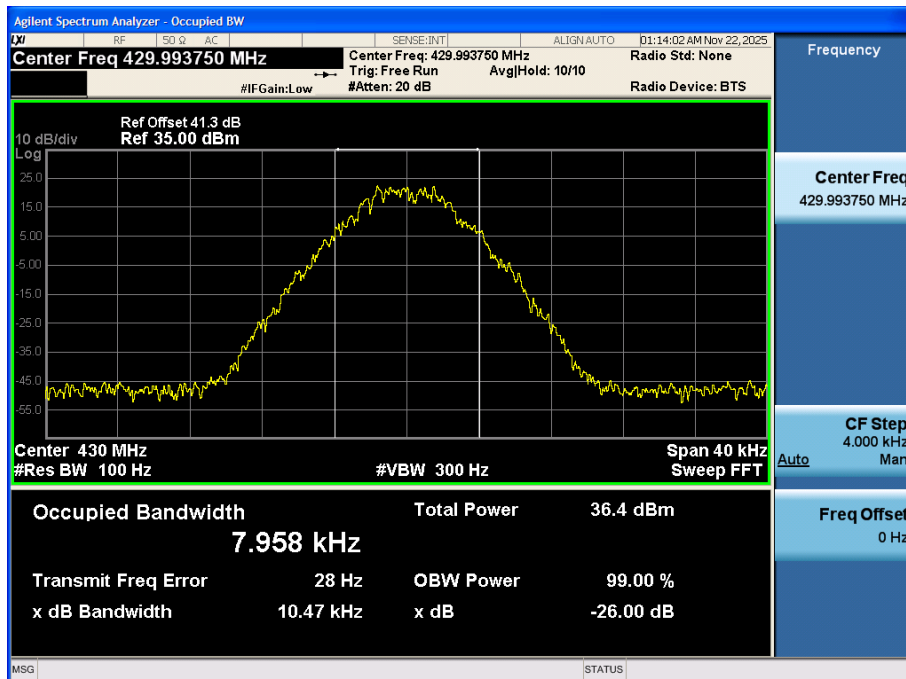
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DL_C4FM_HCH_Output_Pre-AGC



DL_C4FM_HCH_Output_3dB above AGC

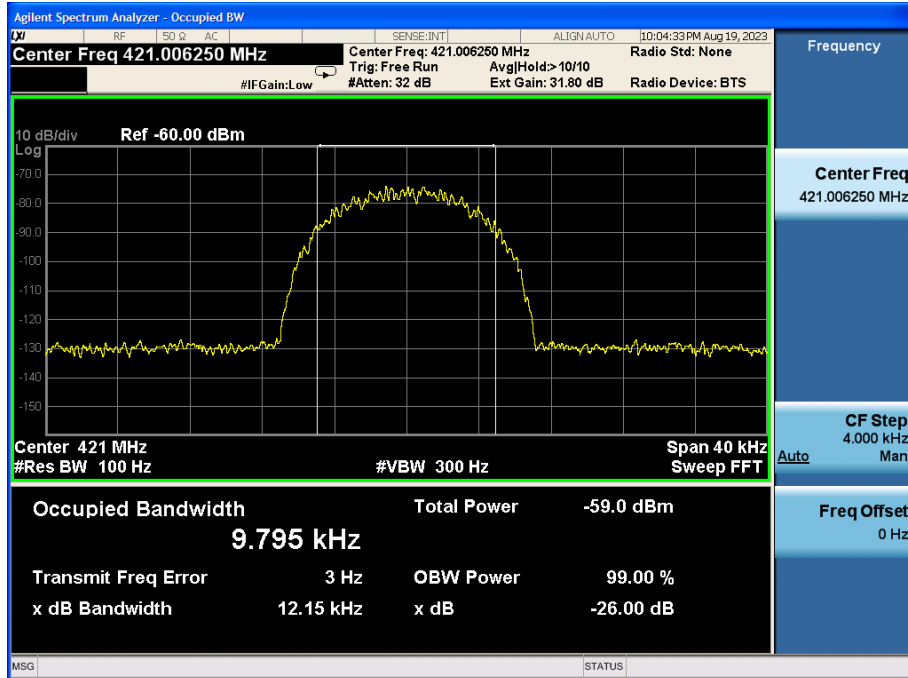


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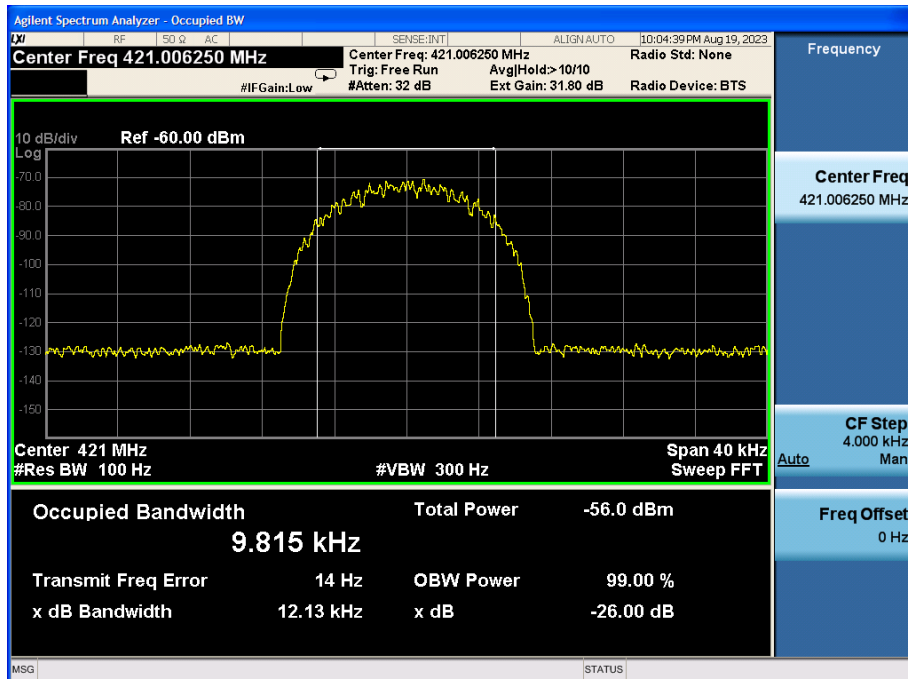
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DL_H-DQPSK_LCH_Input_Pre-AGC



DL_H-DQPSK_LCH_Input_3dB above AGC

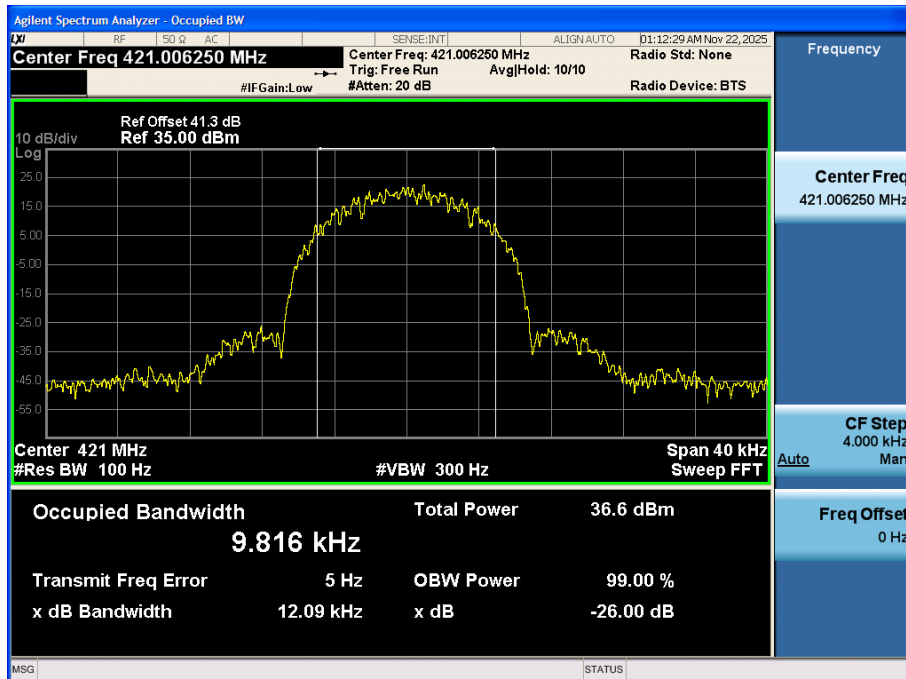


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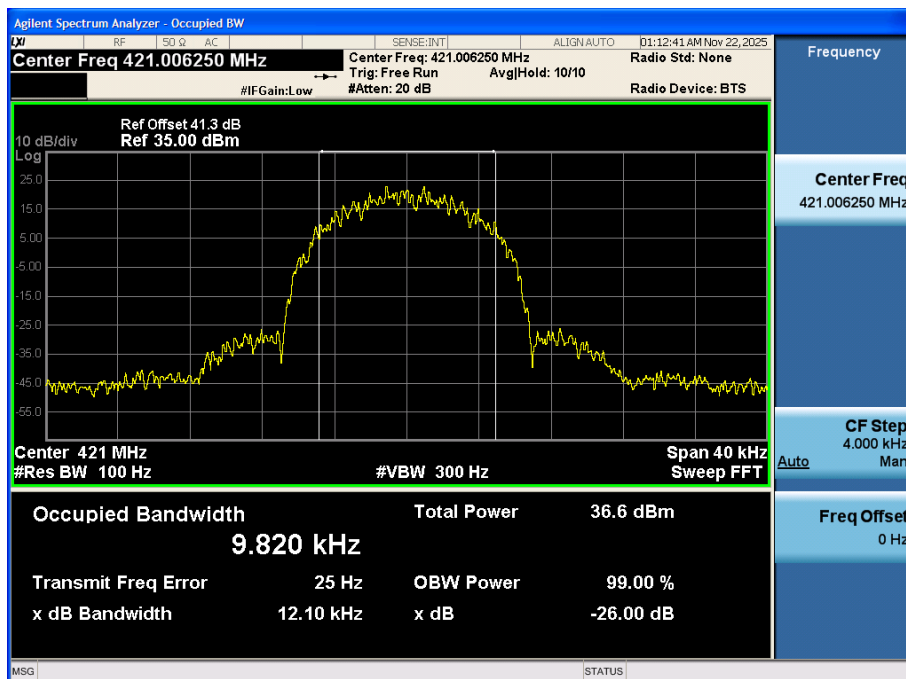
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DL_H-DQPSK_LCH_Output_Pre-AGC



DL_H-DQPSK_LCH_Output_3dB above AGC

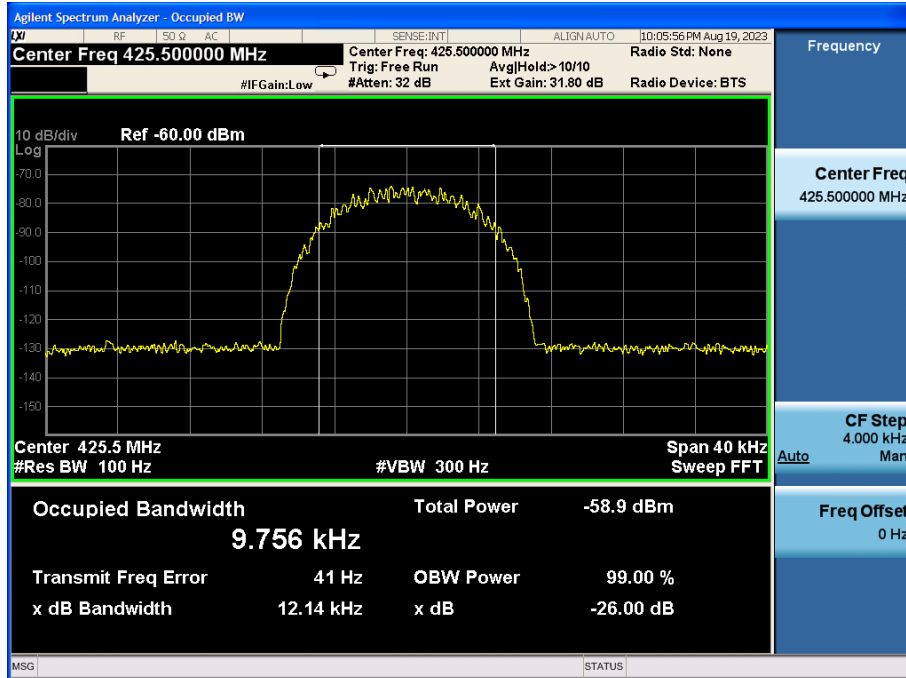


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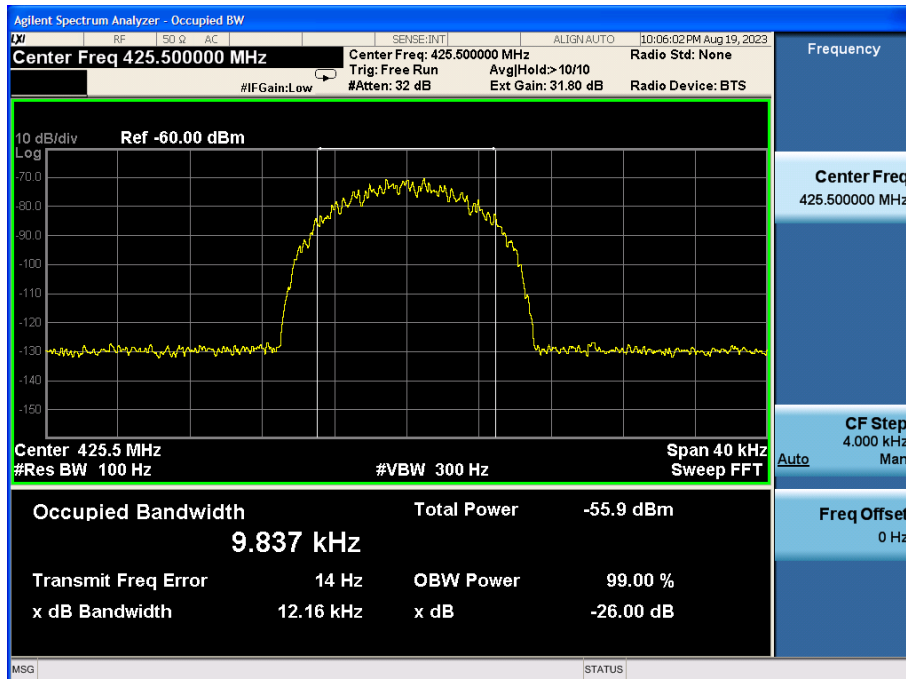
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DL_H-DQPSK_MCH_Input_Pre-AGC



DL_H-DQPSK_MCH_Input_3dB above AGC

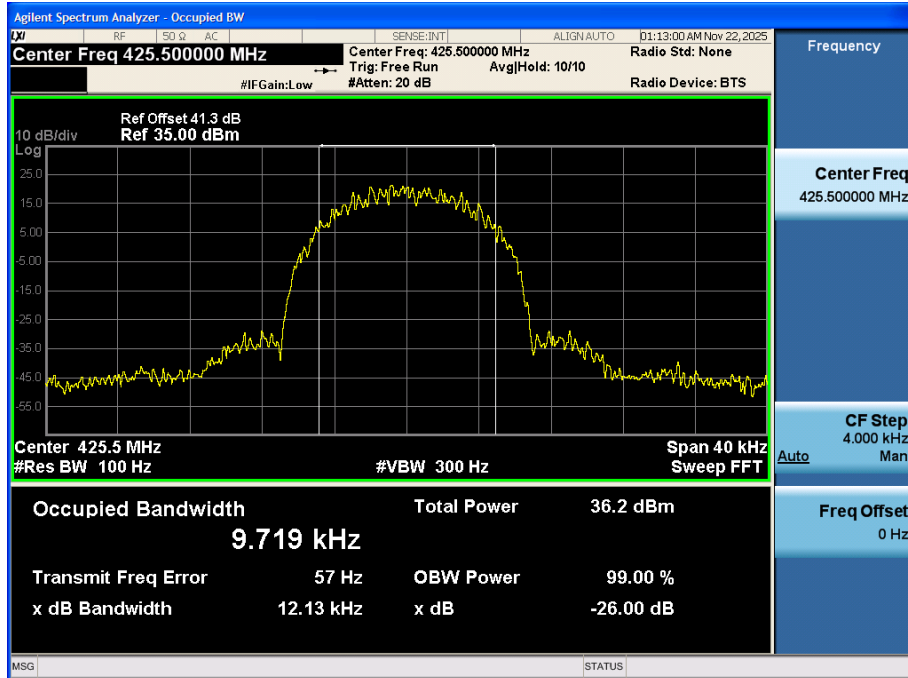


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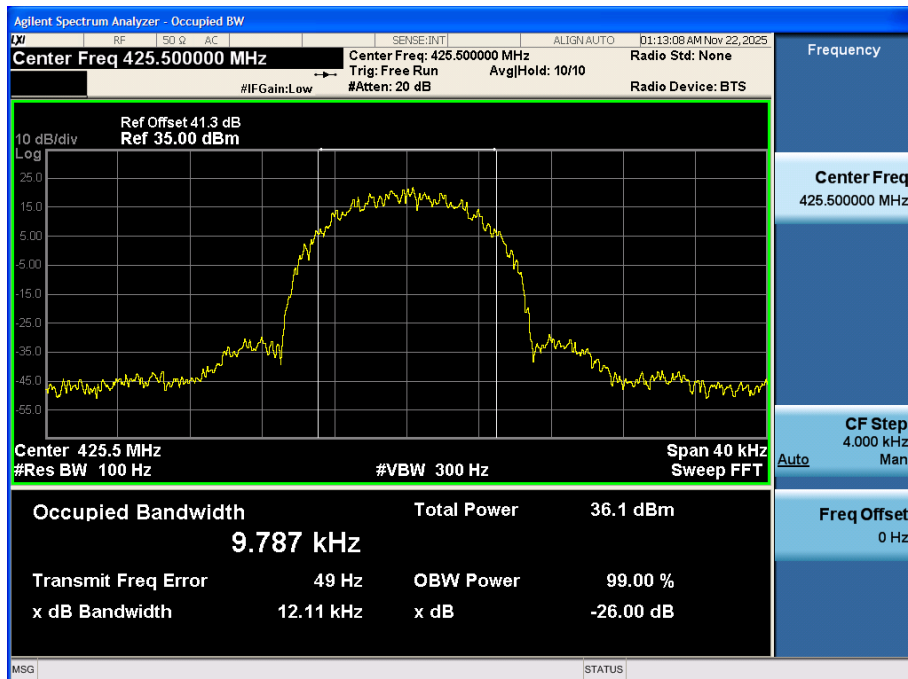
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DL_H-DQPSK_MCH_Output_Pre-AGC



DL_H-DQPSK_MCH_Output_3dB above AGC

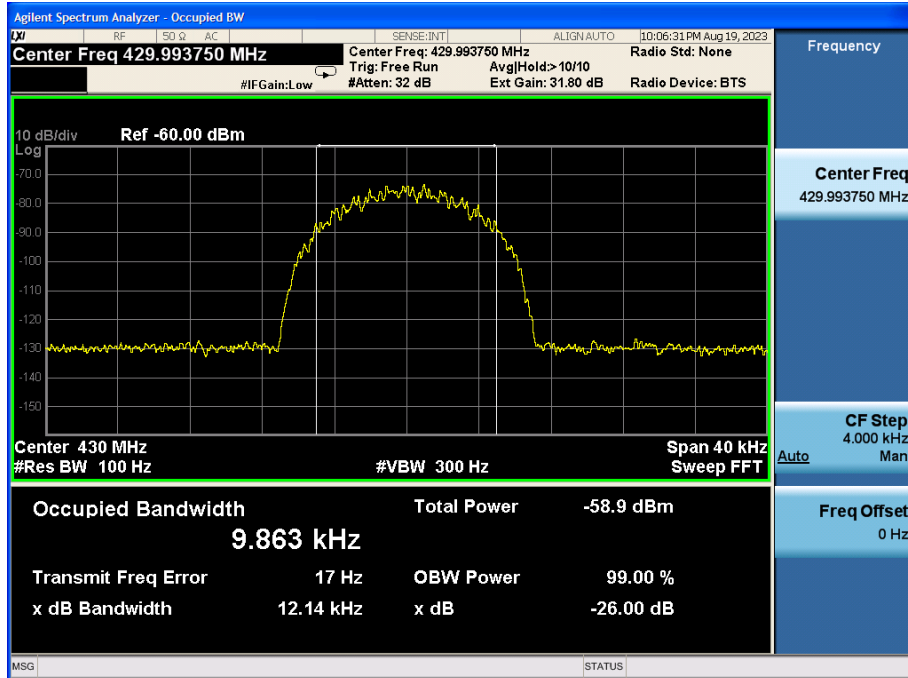


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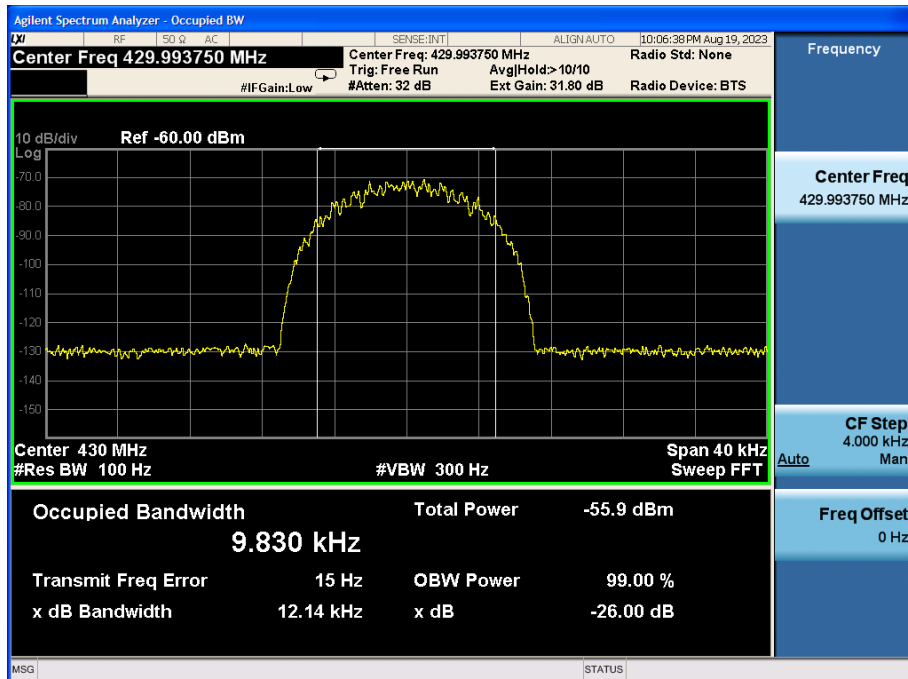
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DL_H-DQPSK_HCH_Input_Pre-AGC



DL_H-DQPSK_HCH_Input_3dB above AGC

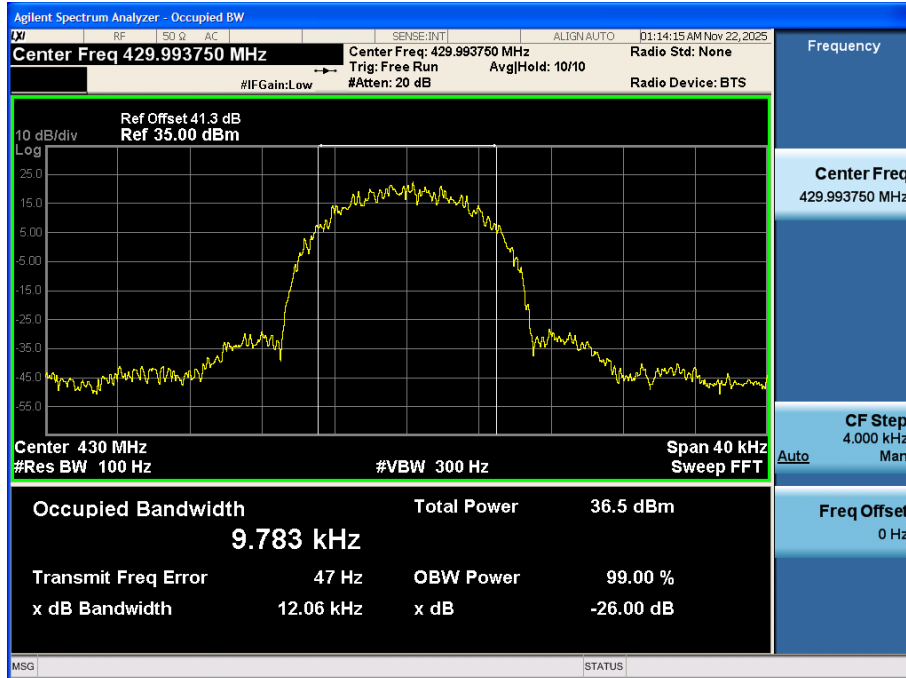


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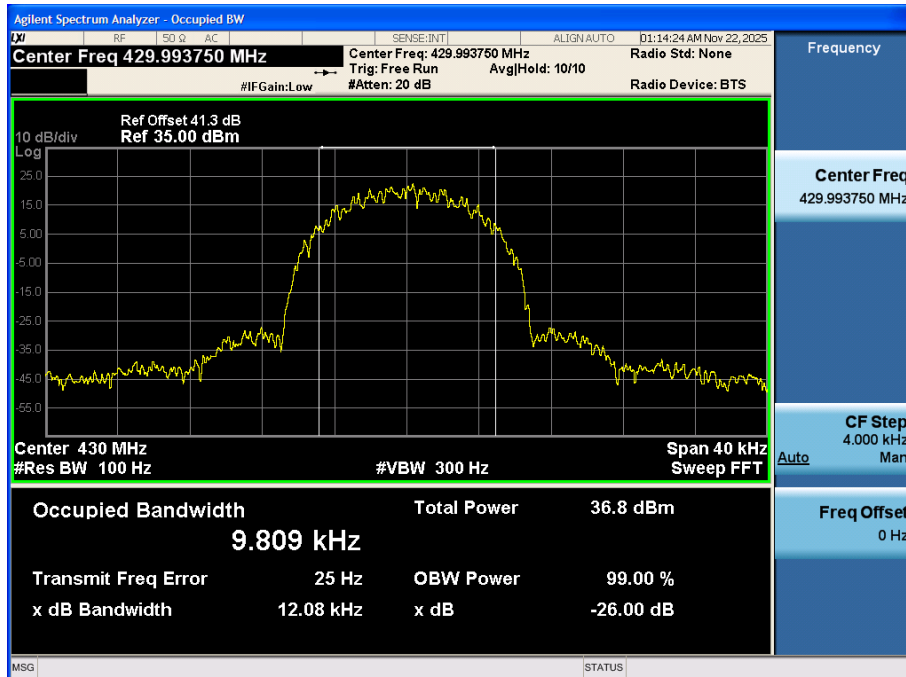
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DL_H-DQPSK_HCH_Output_Pre-AGC



DL_H-DQPSK_HCH_Output_3dB above AGC

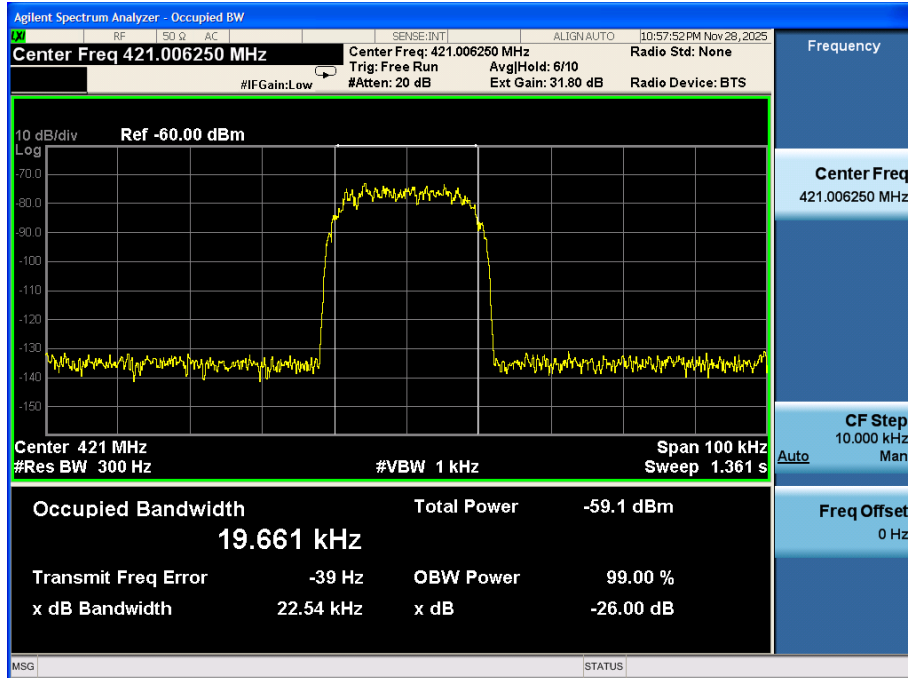


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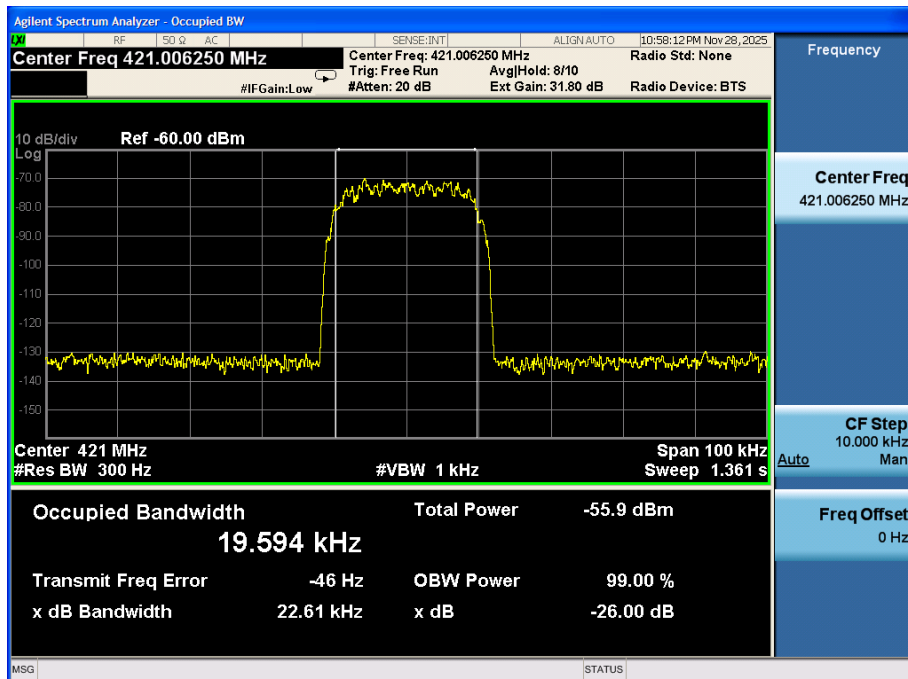
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DL_π/4-DQPSK_LCH_Input_Pre-AGC



DL_π/4-DQPSK_LCH_Input_3dB above AGC



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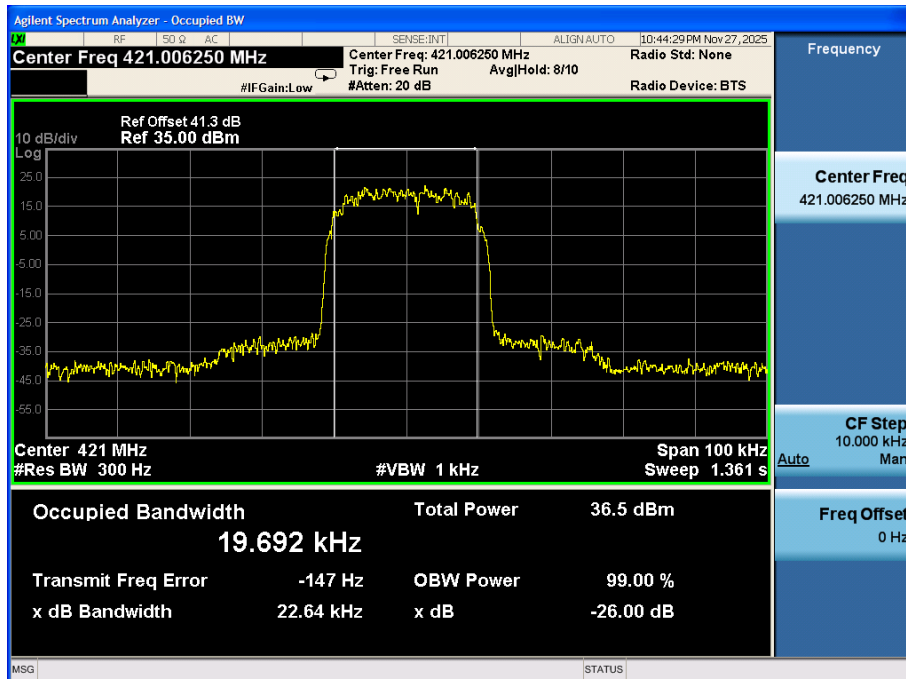
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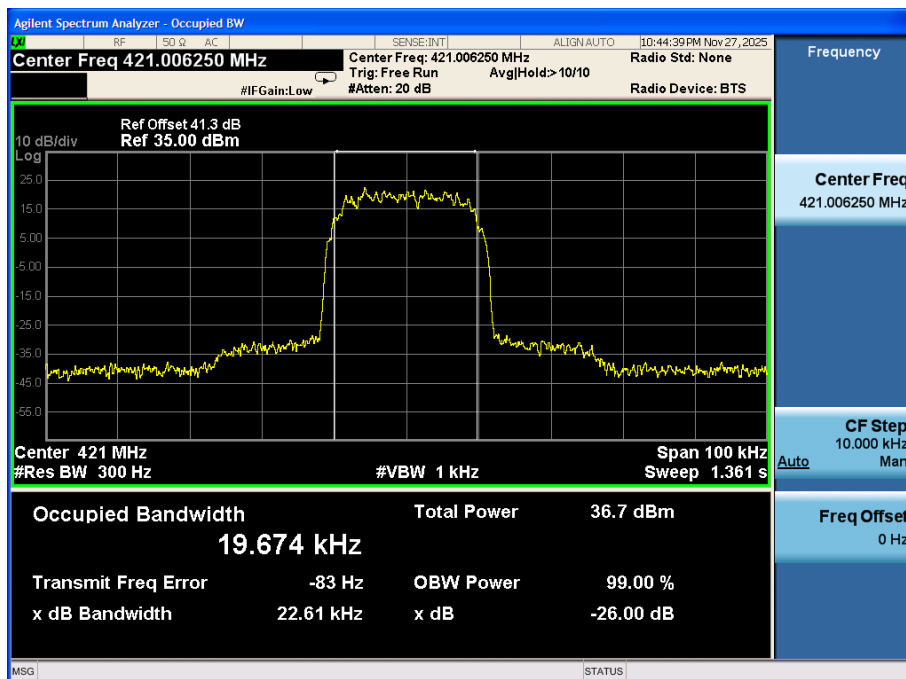
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DL_π/4-DQPSK_LCH_Output_Pre-AGC



DL_π/4-DQPSK_LCH_Output_3dB above AGC



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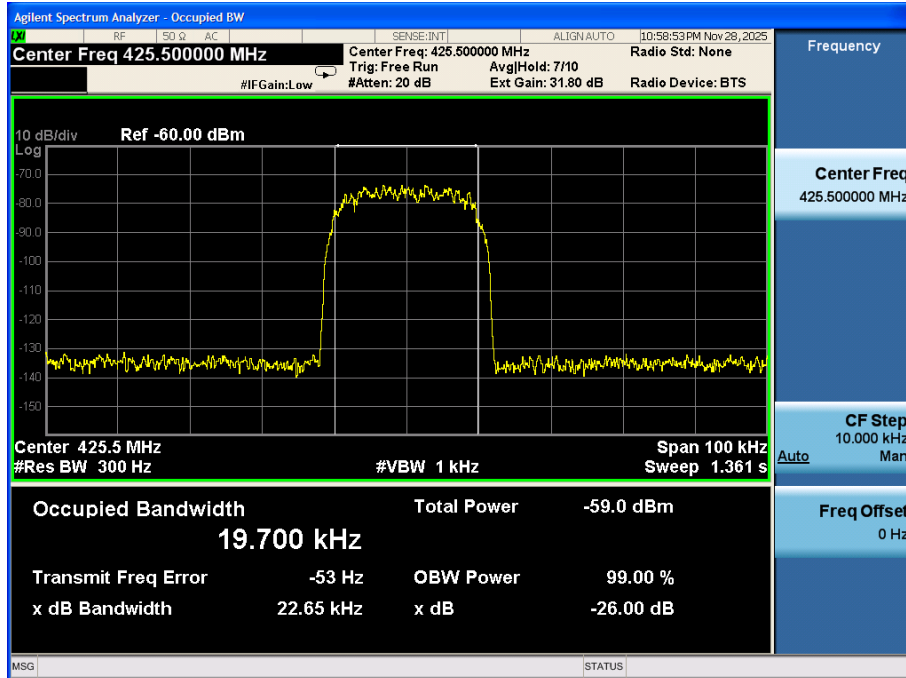
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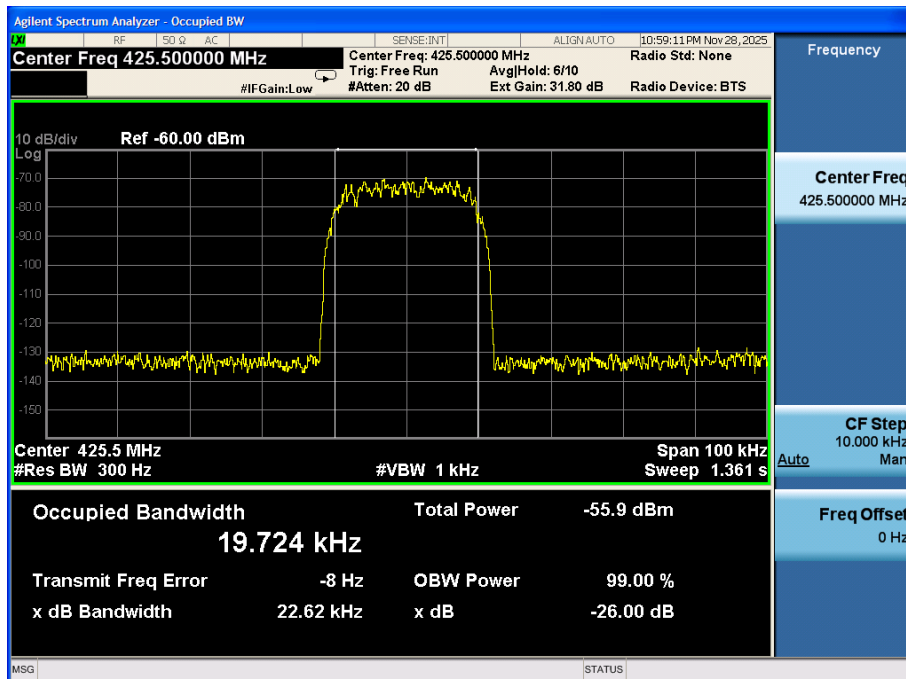
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99% OBW

DL_π/4-DQPSK_MCH_Input_Pre-AGC



DL_π/4-DQPSK_MCH_Input_3dB above AGC

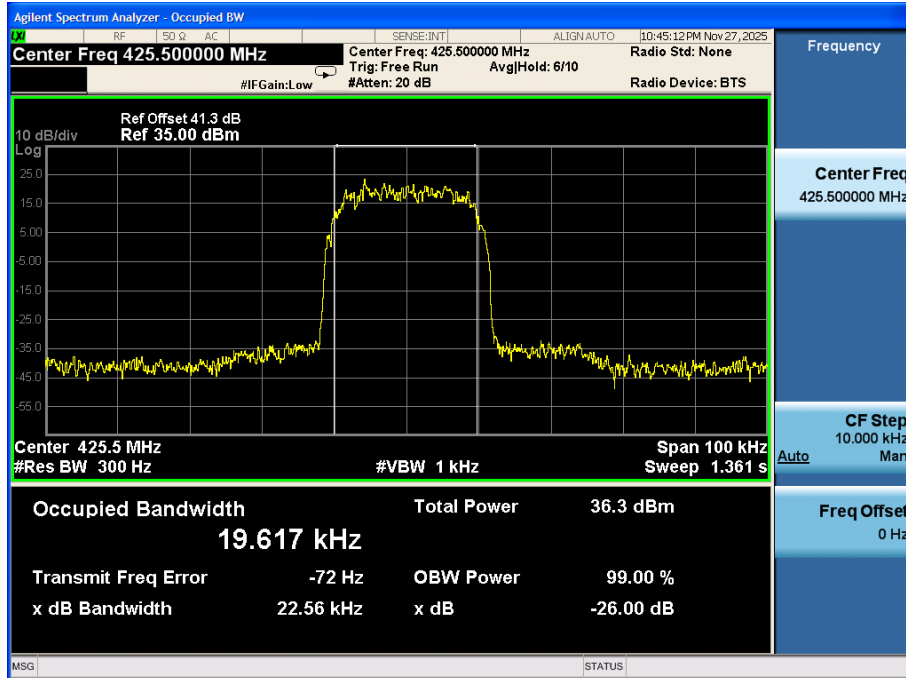


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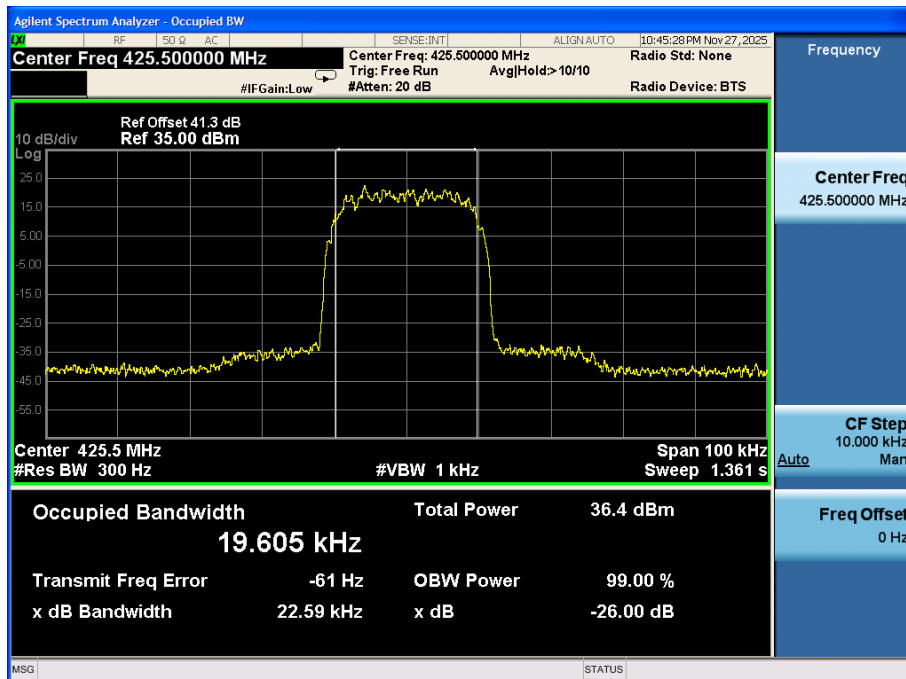
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DL_π/4-DQPSK_MCH_Output_Pre-AGC



DL_π/4-DQPSK_MCH_Output_3dB above AGC

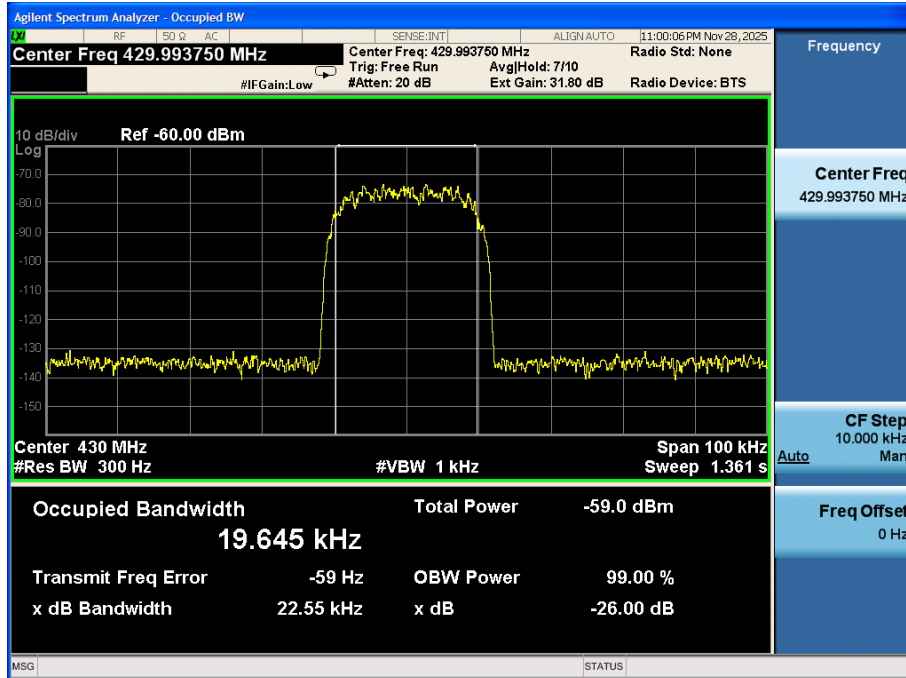


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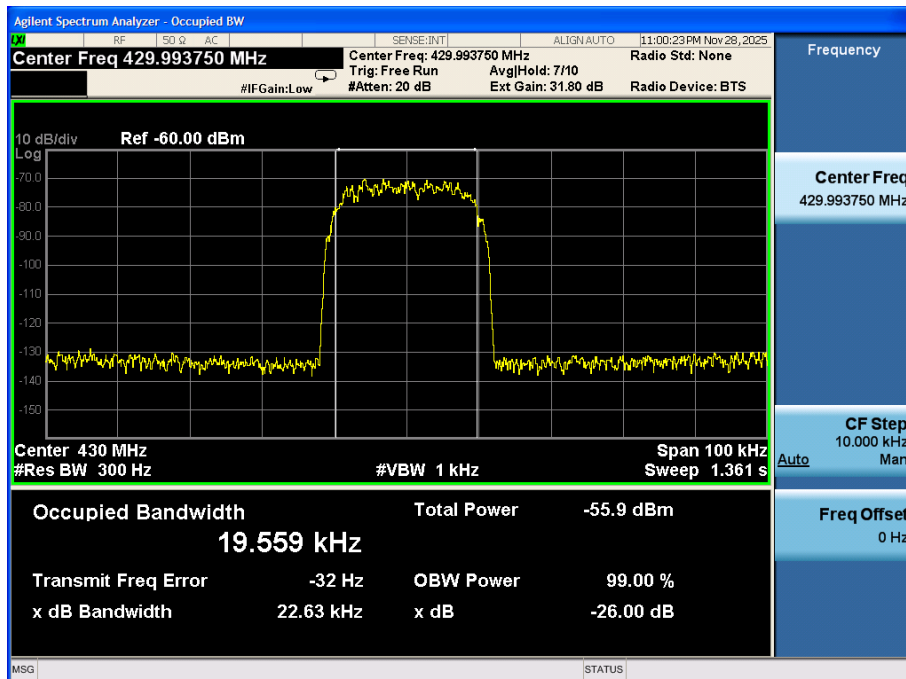
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DL_π/4-DQPSK_HCH_Input_Pre-AGC



DL_π/4-DQPSK_HCH_Input_3dB above AGC

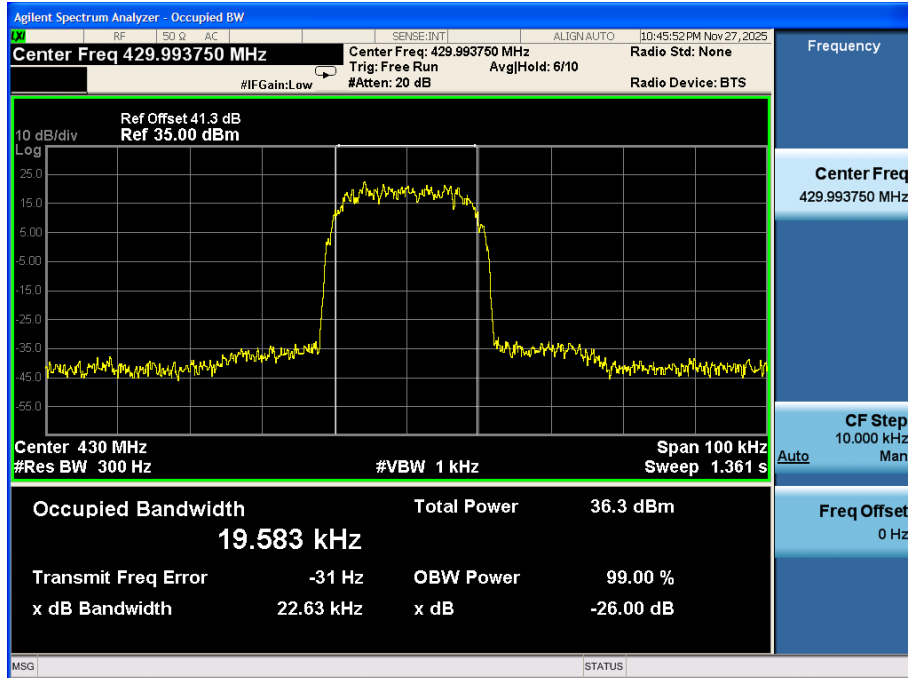


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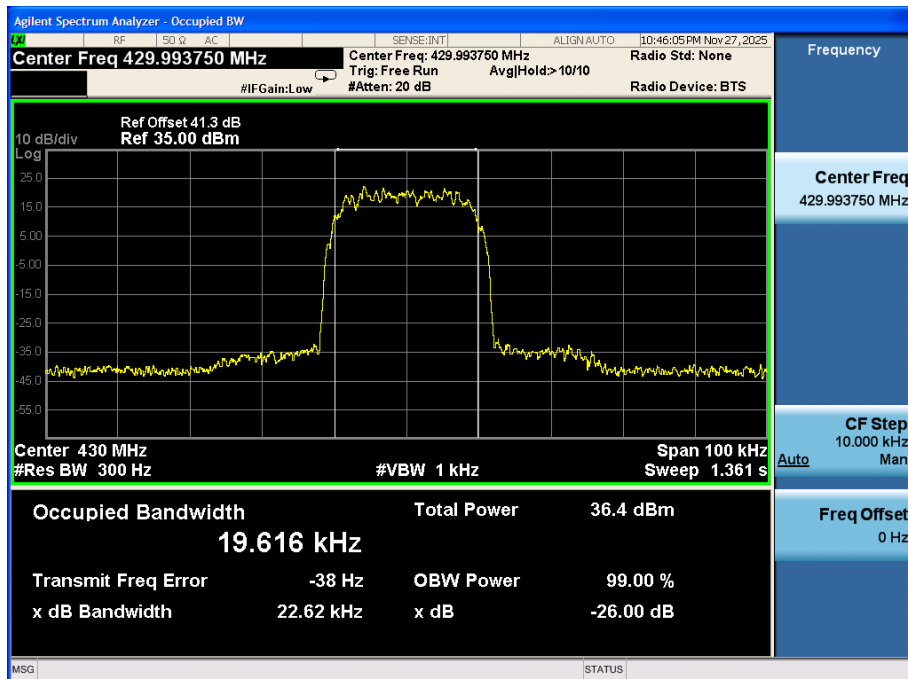
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DL_π/4-DQPSK_HCH_Output_Pre-AGC



DL_π/4-DQPSK_HCH_Output_3dB above AGC



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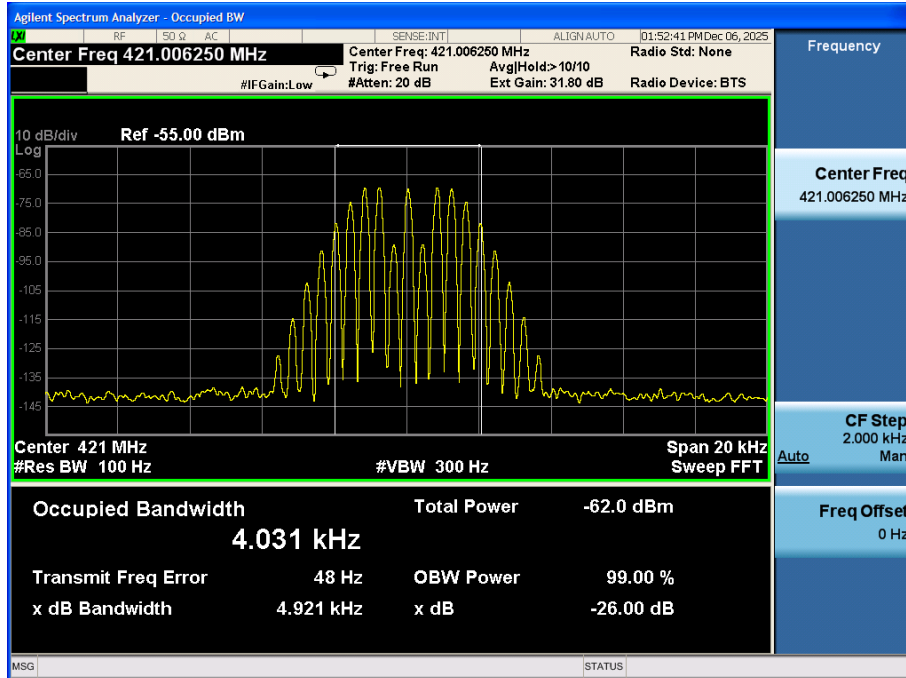
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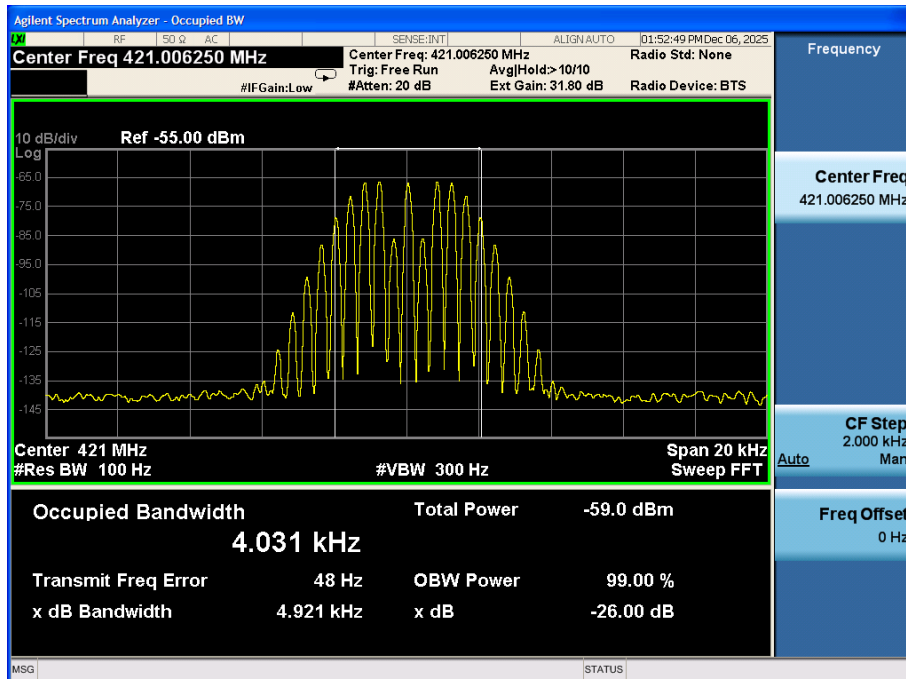
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UL_FM_LCH_Input_Pre-AGC



UL_FM_LCH_Input_3dB above AGC



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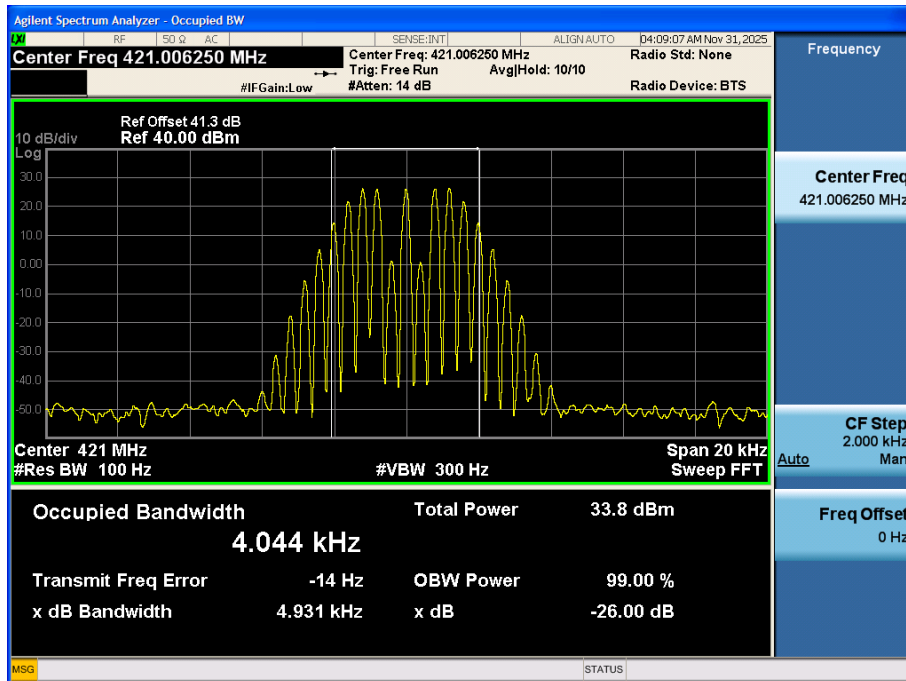
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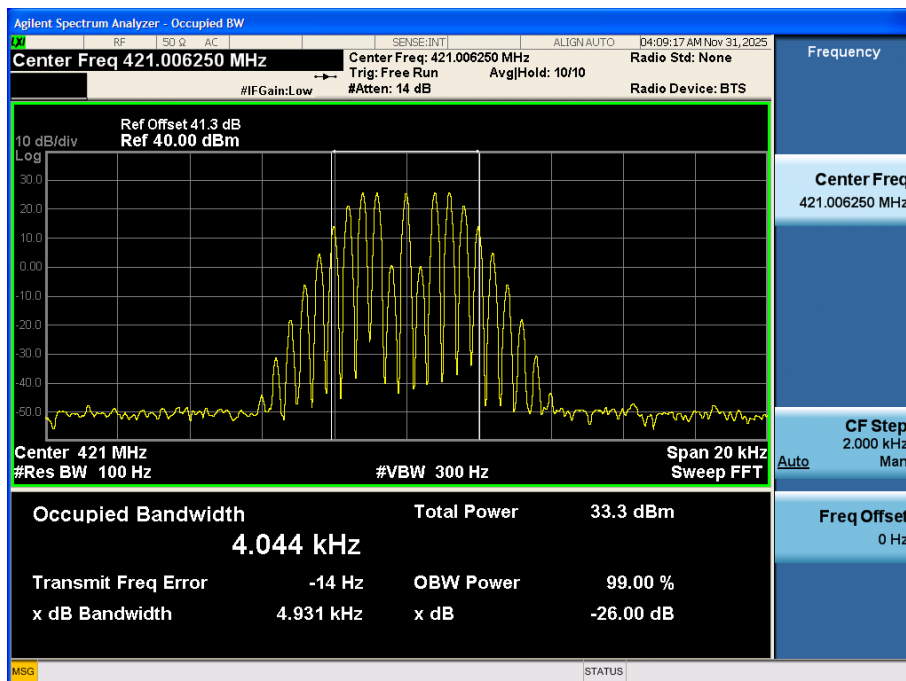
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UL_FM_LCH_Output_Pre-AGC



UL_FM_LCH_Output_3dB above AGC



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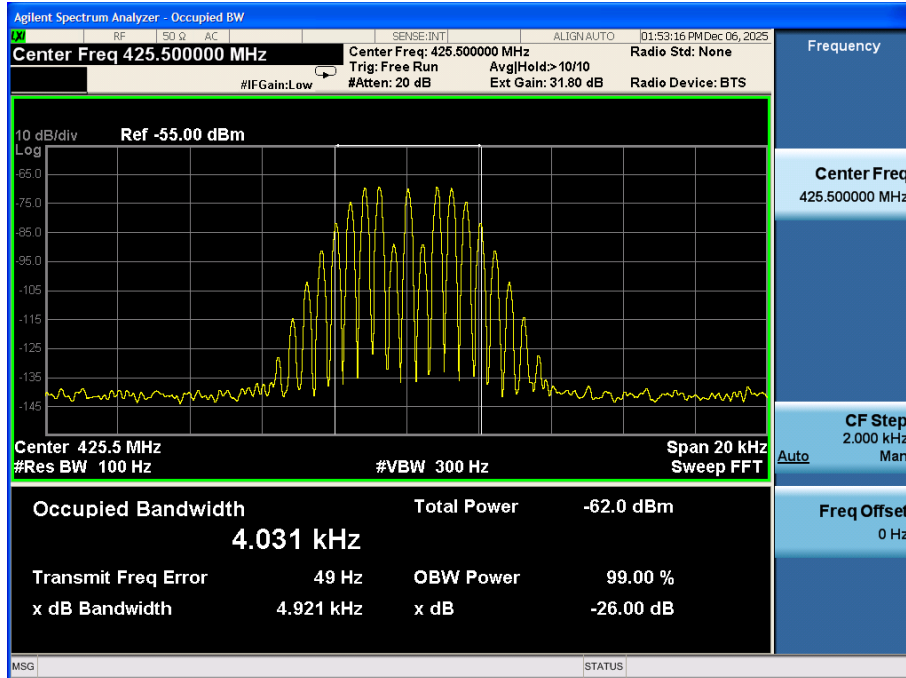
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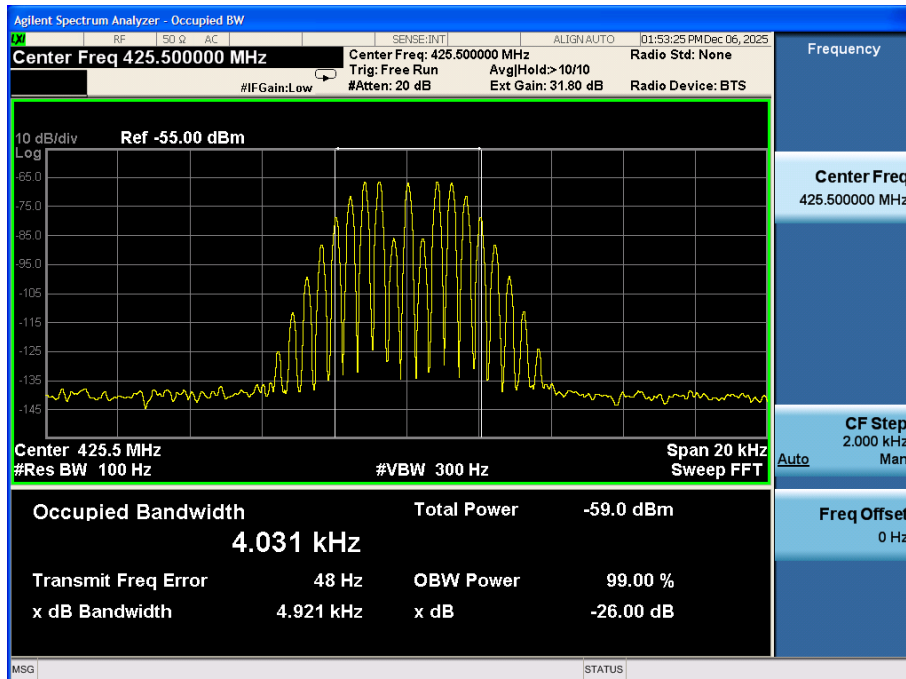
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UL_FM_MCH_Input_Pre-AGC



UL_FM_MCH_Input_3dB above AGC



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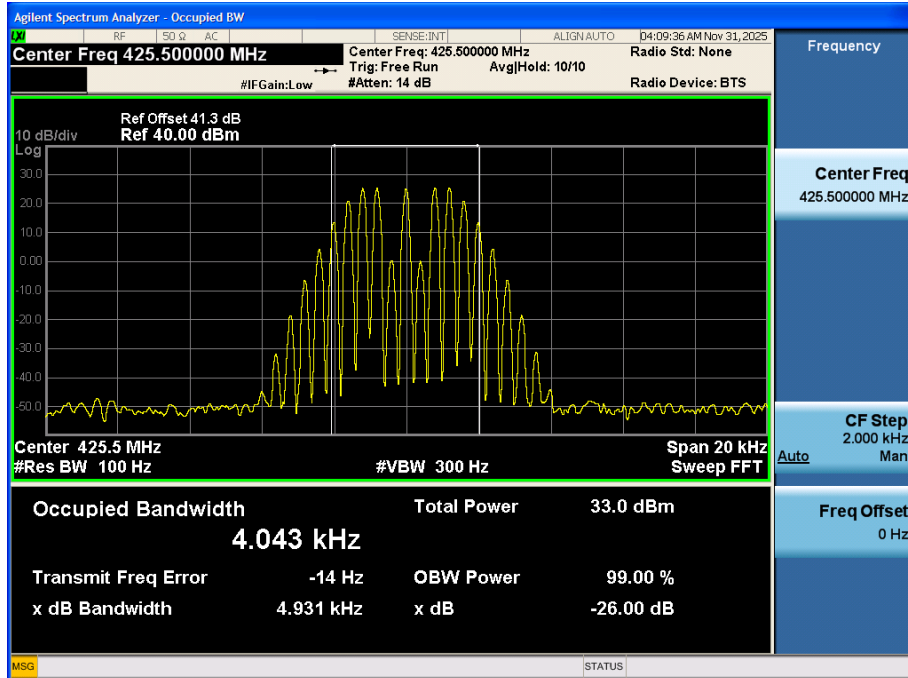
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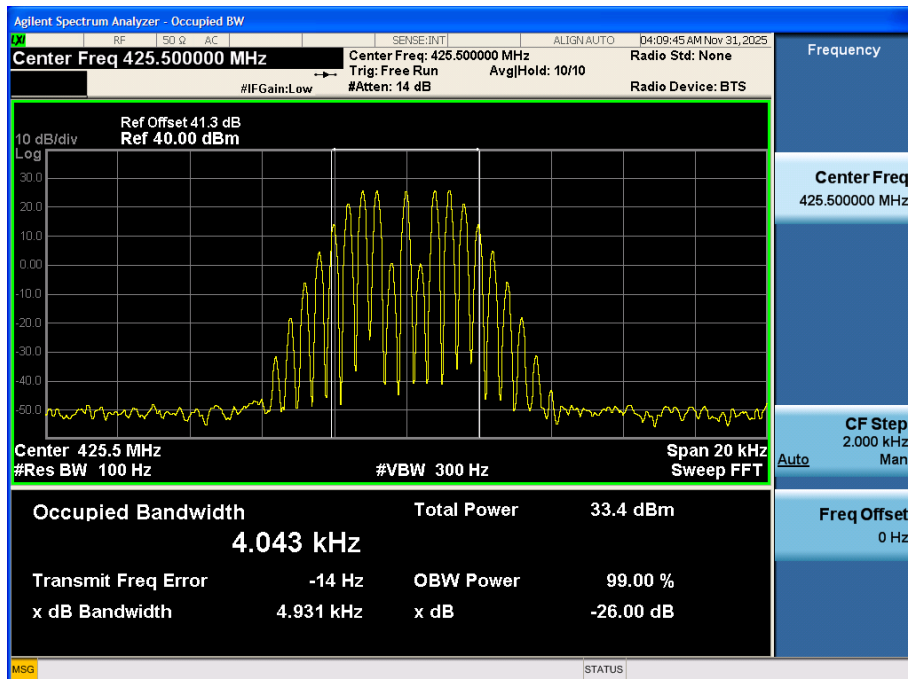
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UL_FM_MCH_Output_Pre-AGC



UL_FM_MCH_Output_3dB above AGC

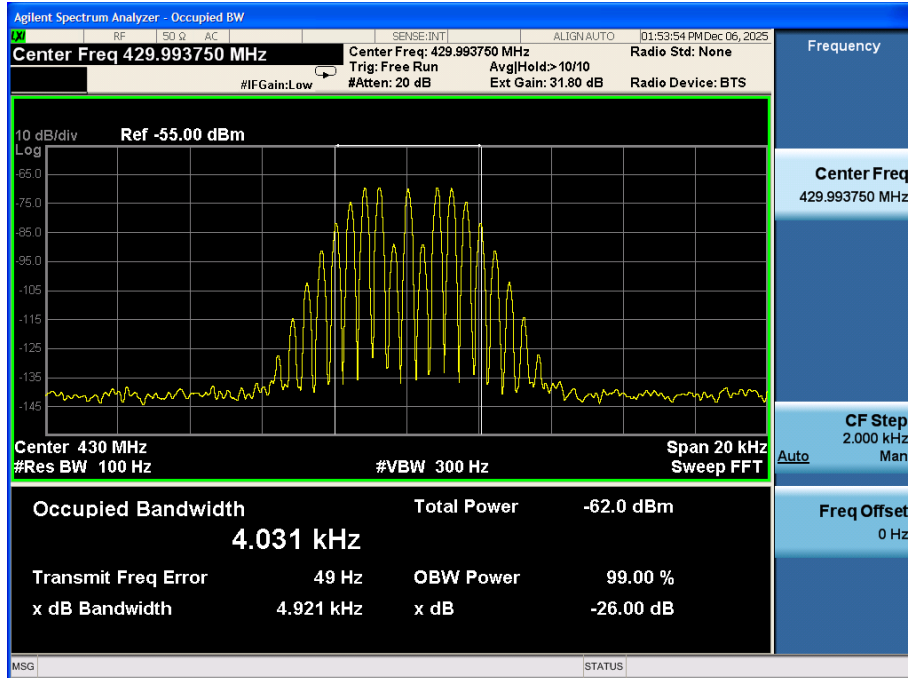


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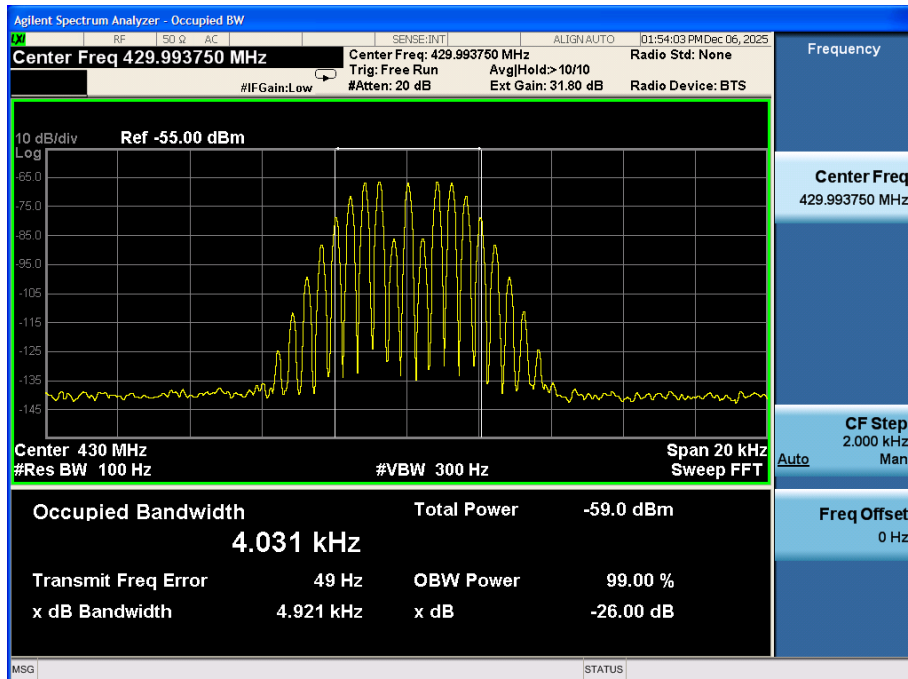
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UL_FM_HCH_Input_Pre-AGC



UL_FM_HCH_Input_3dB above AGC

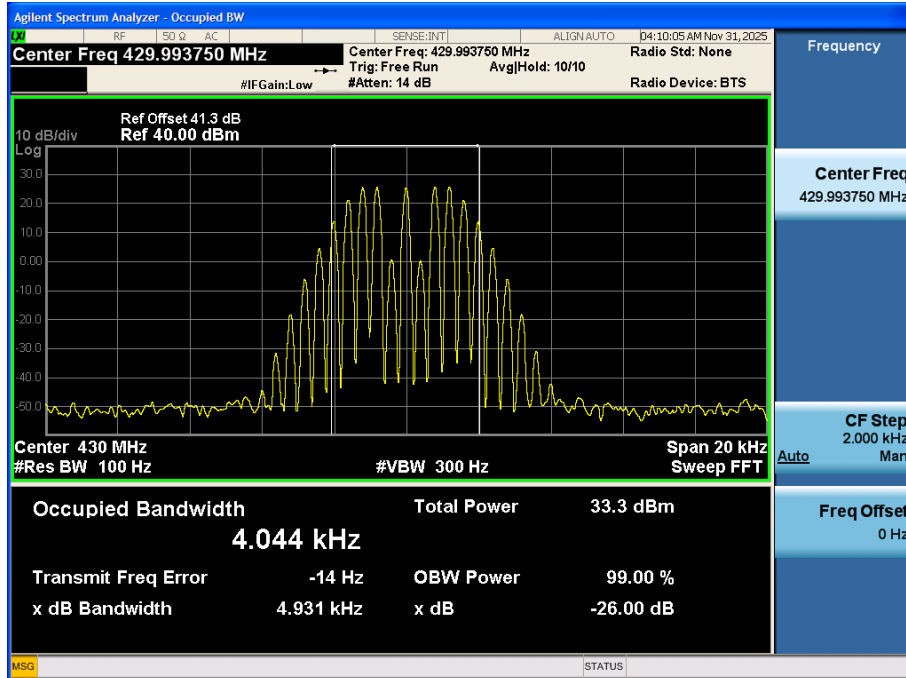


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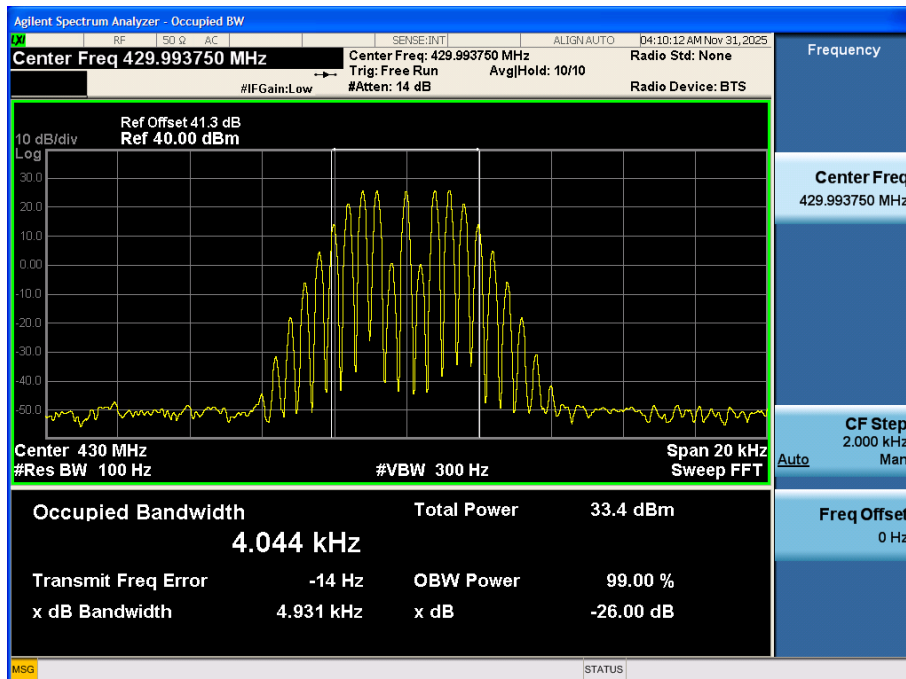
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UL_FM_HCH_Output_Pre-AGC



UL_FM_HCH_Output_3dB above AGC

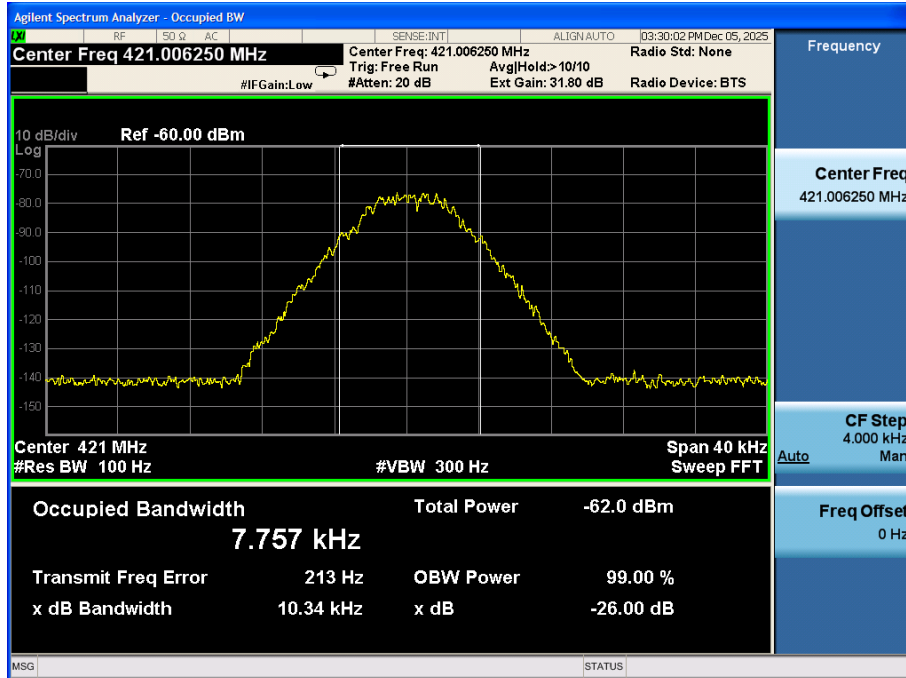


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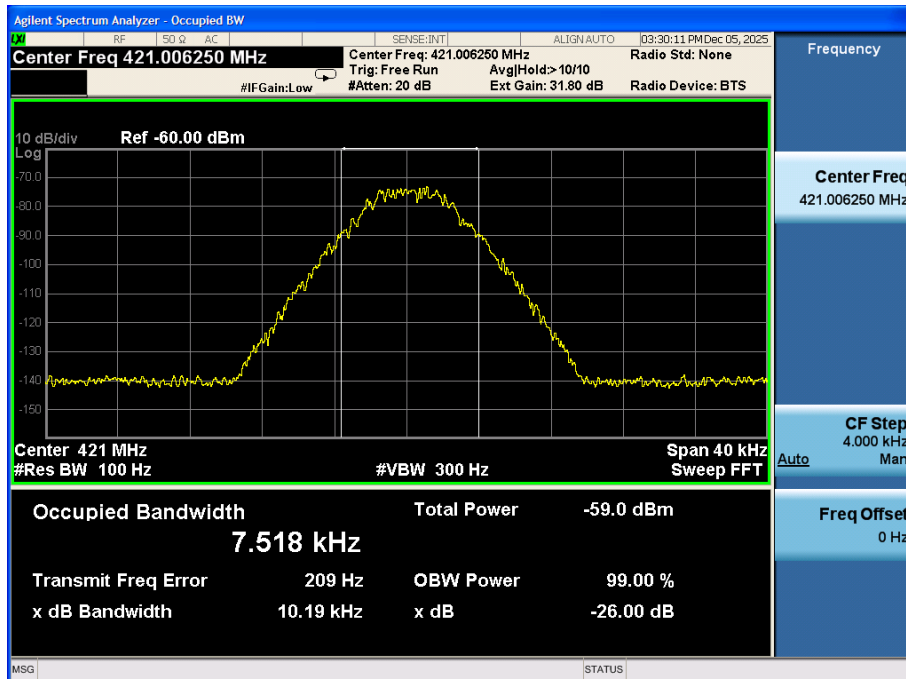
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UL_DMR_LCH_Input_Pre-AGC



UL_DMR_LCH_Input_3dB above AGC

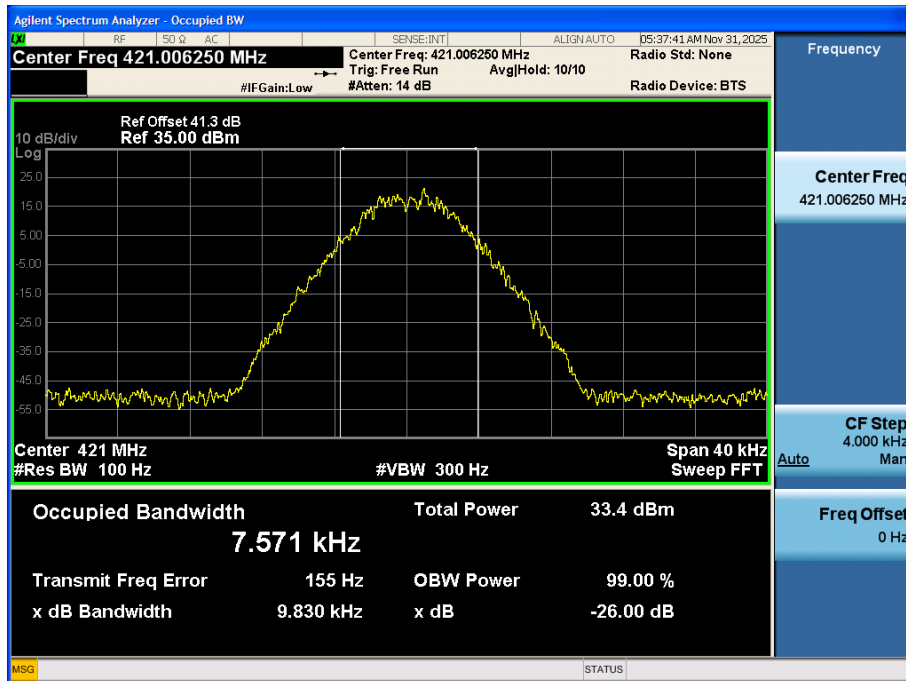


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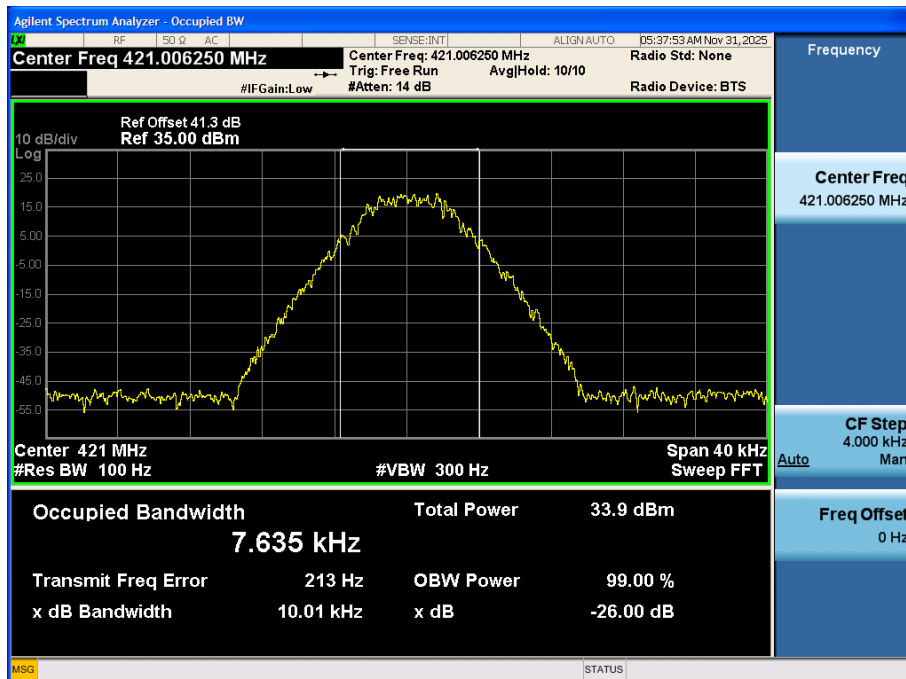
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UL_DMR_LCH_Output_Pre-AGC



UL_DMR_LCH_Output_3dB above AGC



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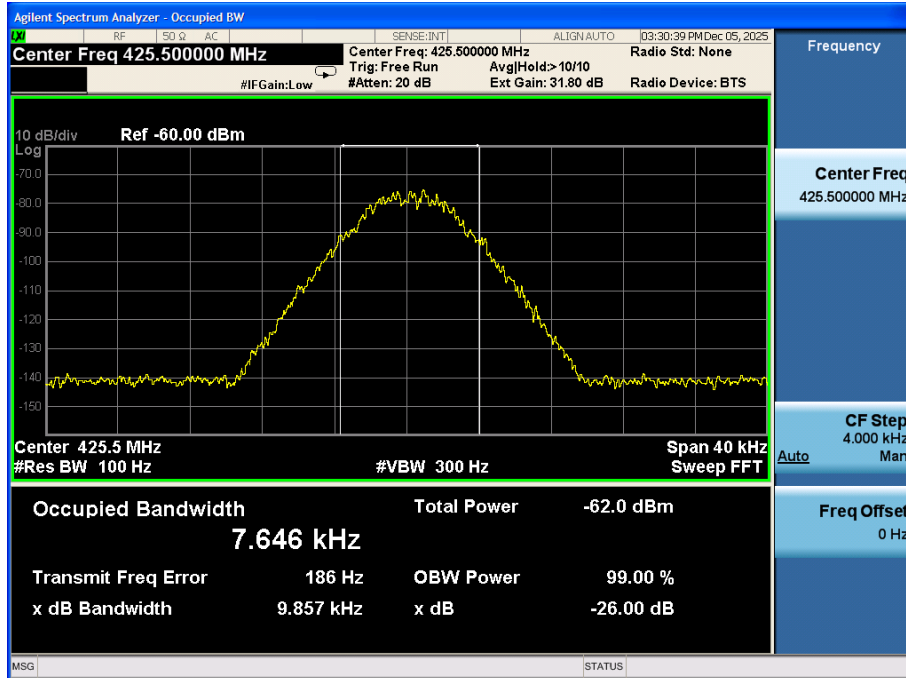
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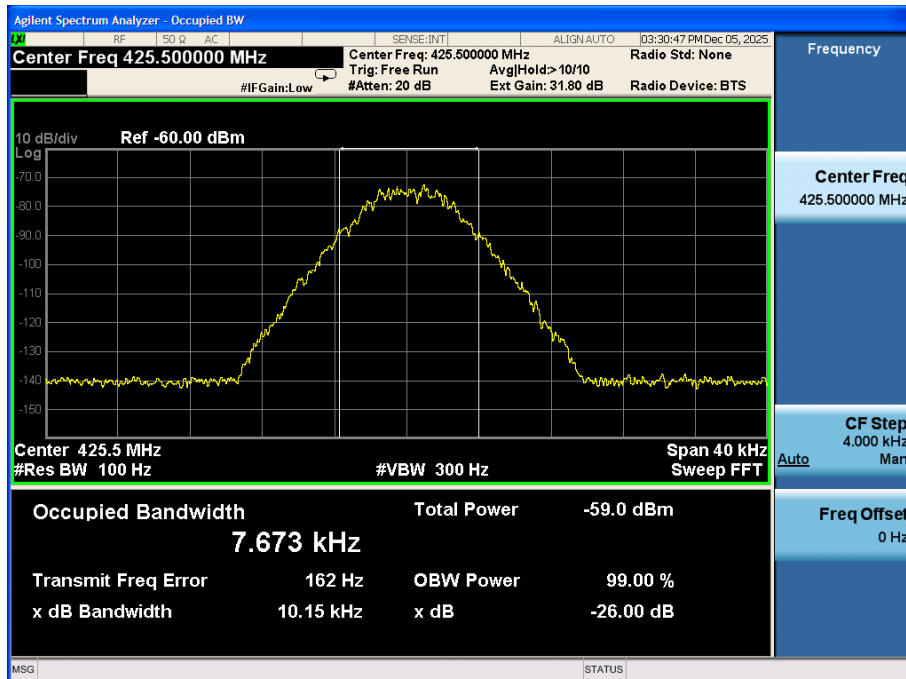
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UL_DMR_MCH_Input_Pre-AGC



UL_DMR_MCH_Input_3dB above AGC

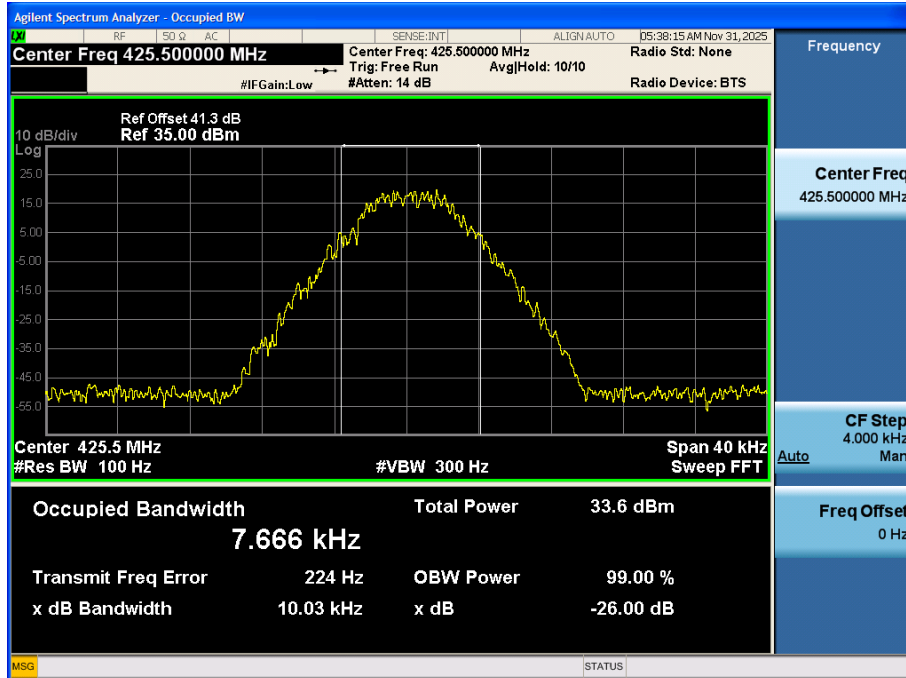


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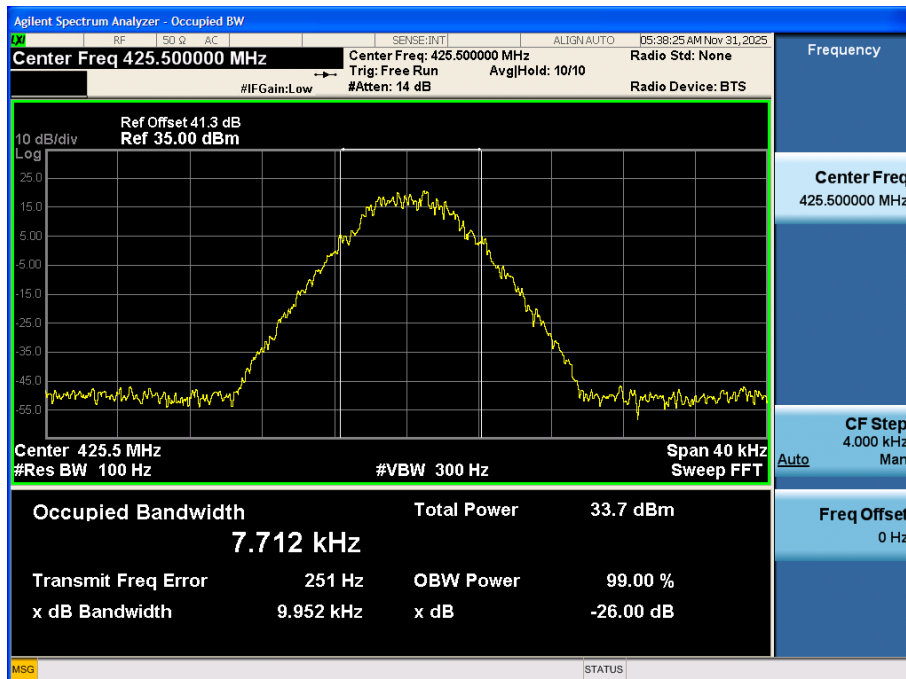
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UL_DMR_MCH_Output_Pre-AGC



UL_DMR_MCH_Output_3dB above AGC

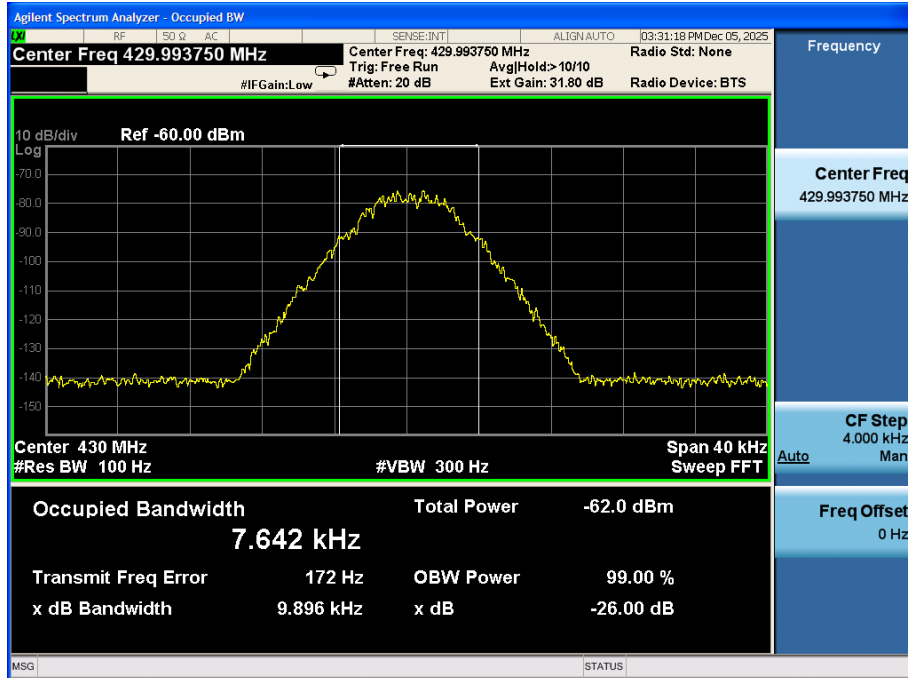


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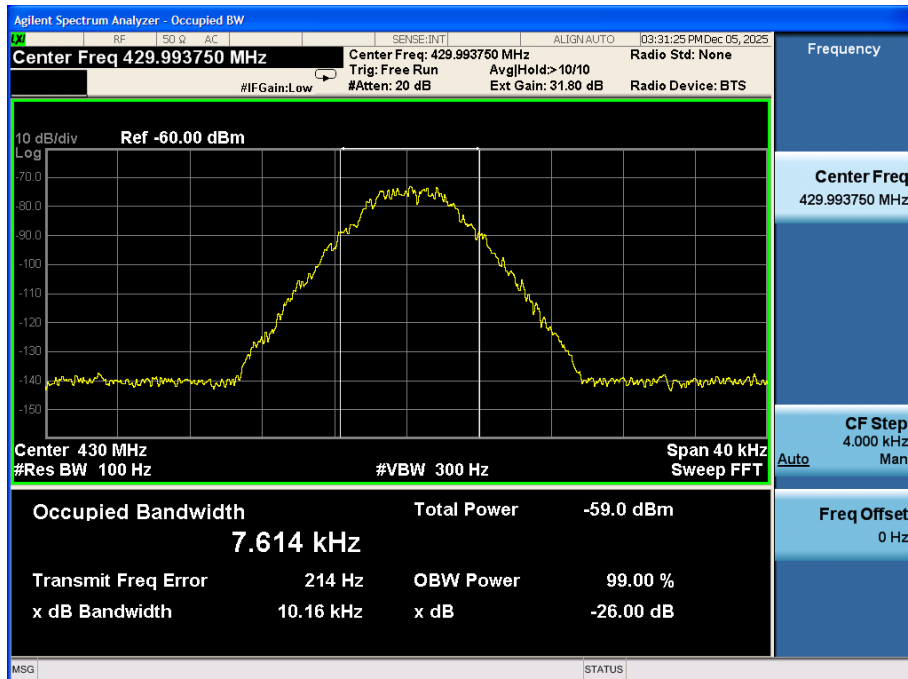
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UL_DMR_HCH_Input_Pre-AGC



UL_DMR_HCH_Input_3dB above AGC

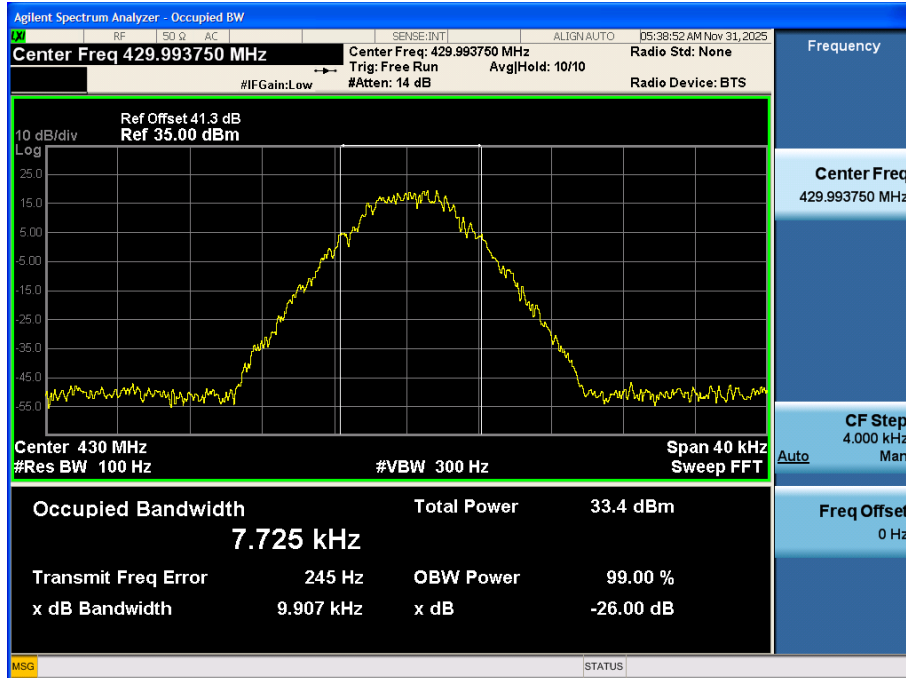


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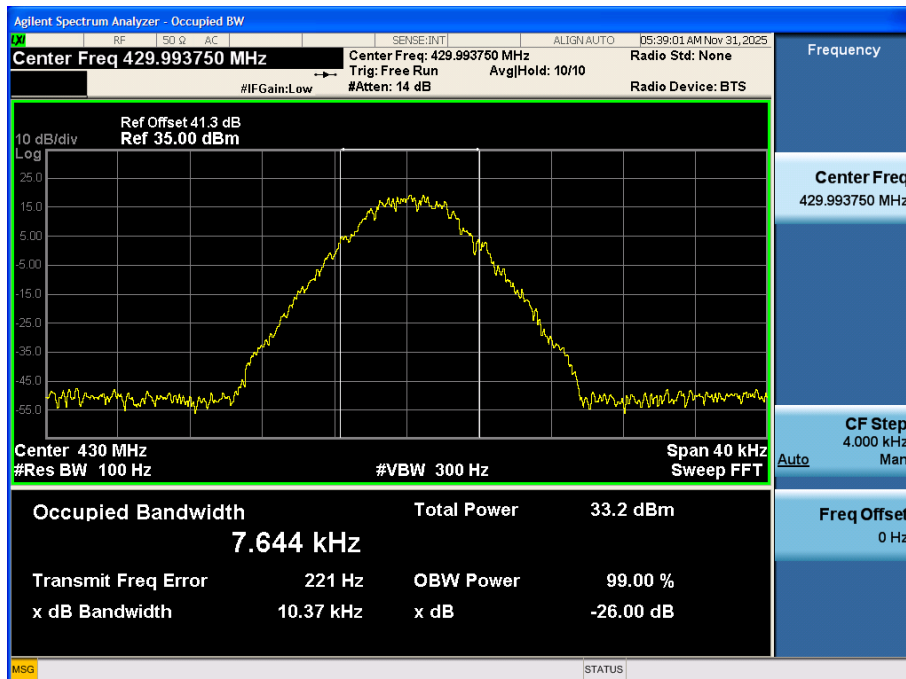
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UL_DMR_HCH_Output_Pre-AGC



UL_DMR_HCH_Output_3dB above AGC

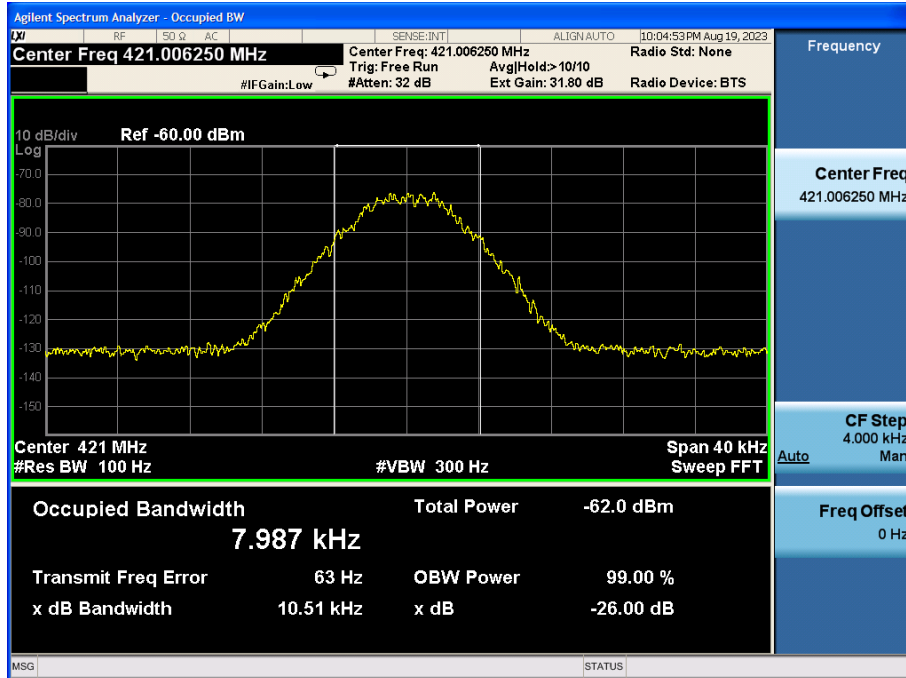


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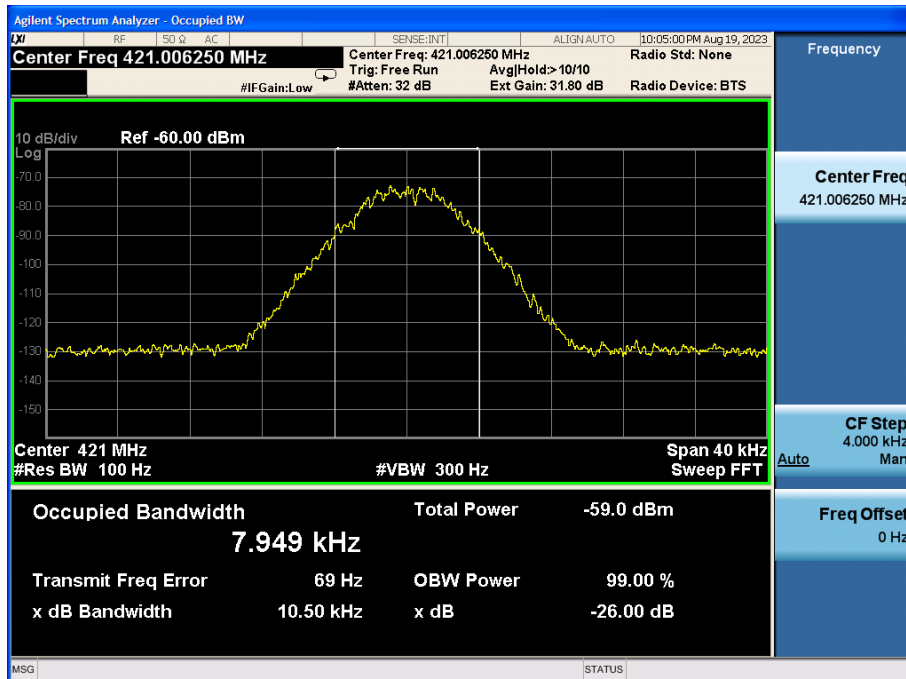
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99% OBW

UL_C4FM_LCH_Input_Pre-AGC



UL_C4FM_LCH_Input_3dB above AGC

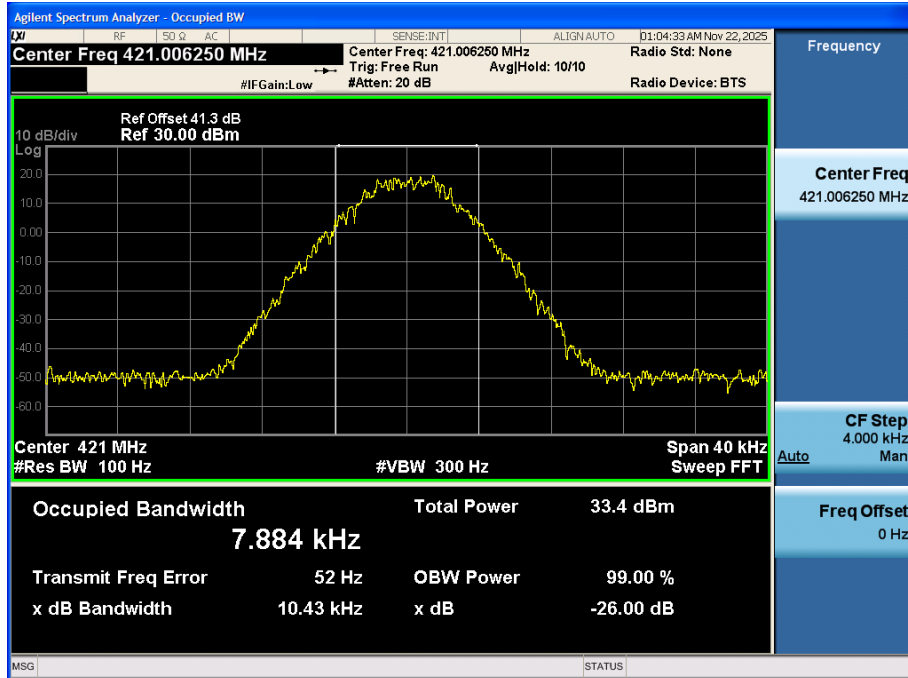


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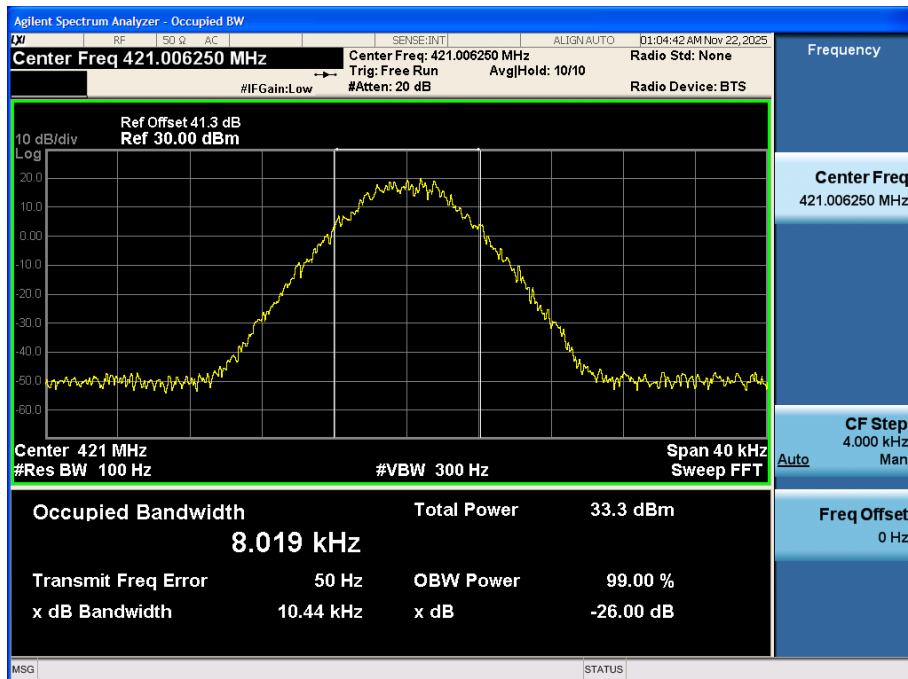
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99% OBW

UL_C4FM_LCH_Output_Pre-AGC



UL_C4FM_LCH_Output_3dB above AGC

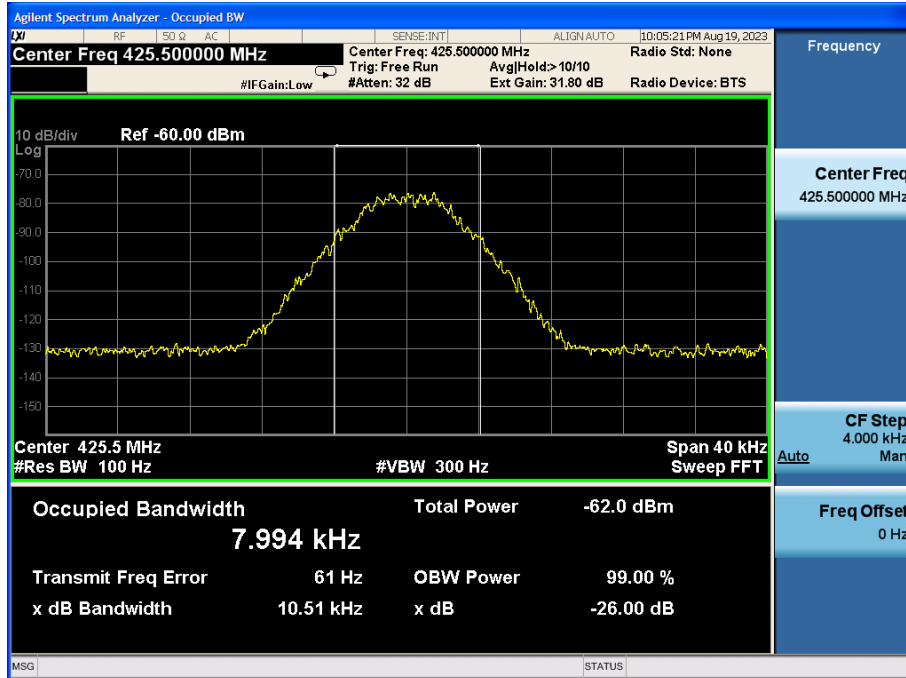


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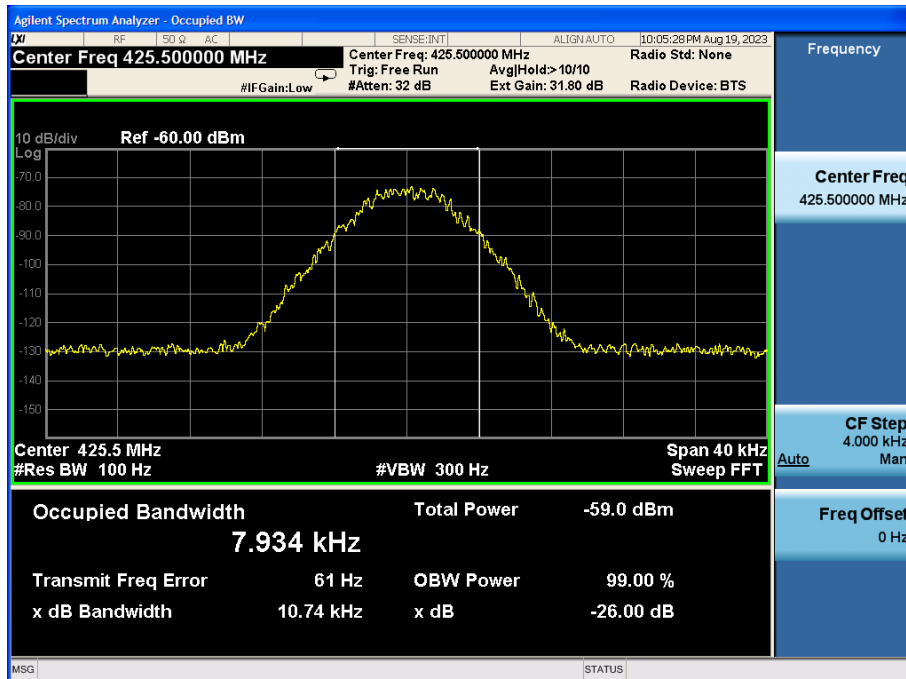
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UL_C4FM_MCH_Input_Pre-AGC



UL_C4FM_MCH_Input_3dB above AGC



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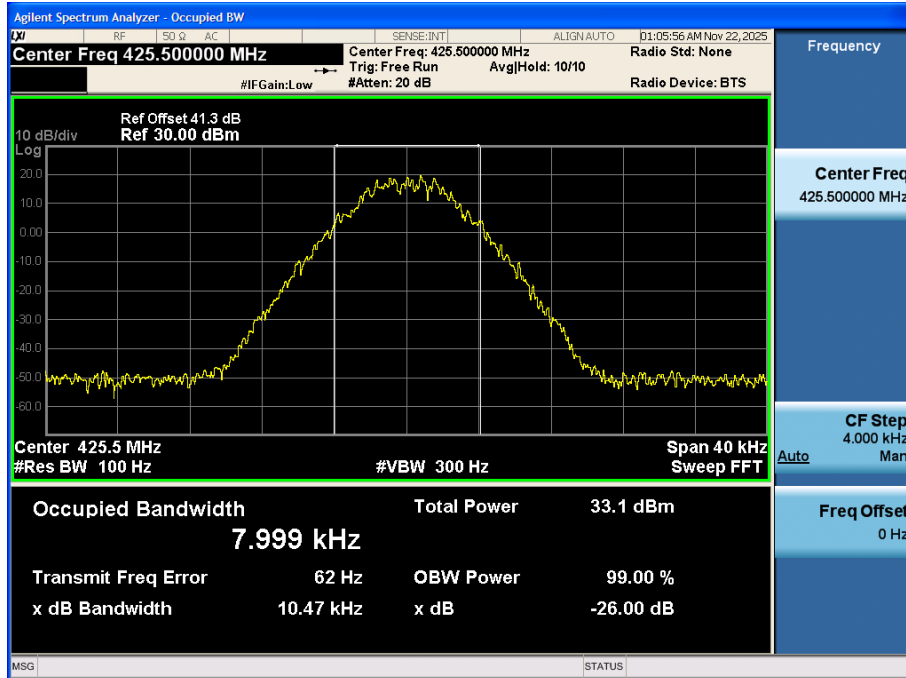
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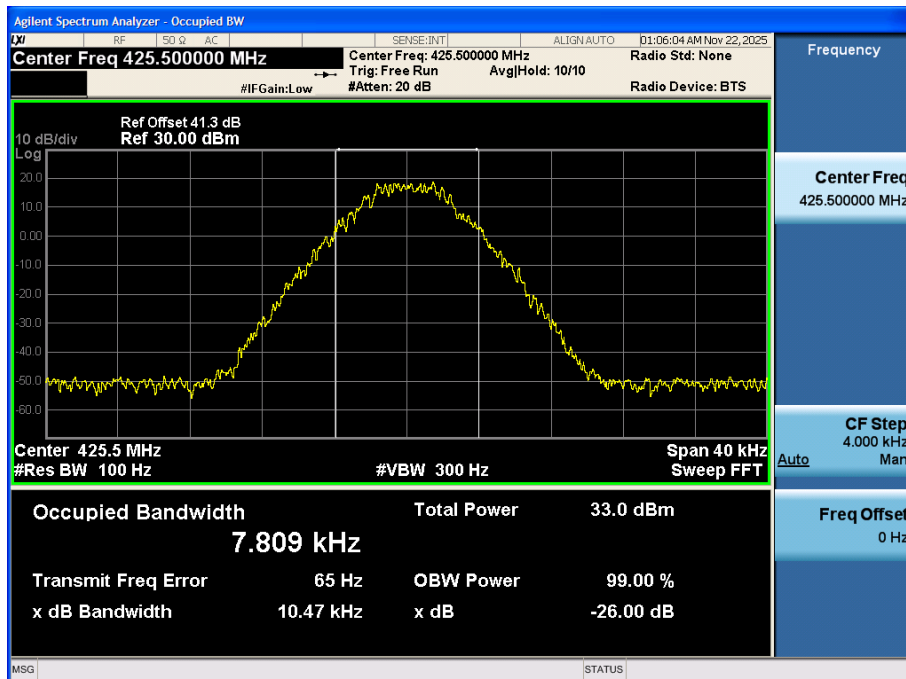
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99% OBW

UL_C4FM_MCH_Output_Pre-AGC



UL_C4FM_MCH_Output_3dB above AGC

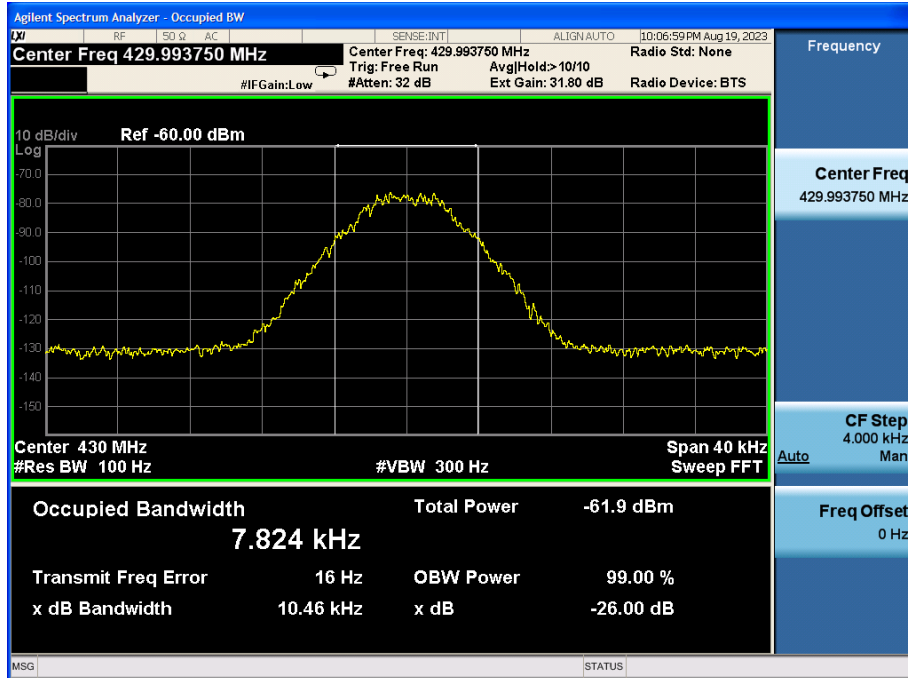


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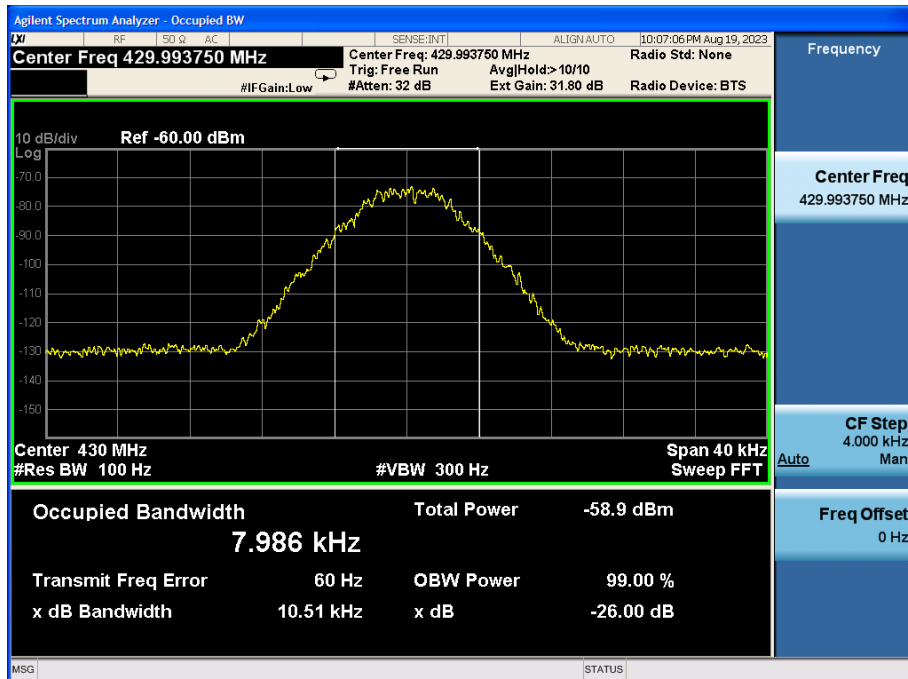
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UL_C4FM_HCH_Input_Pre-AGC



UL_C4FM_HCH_Input_3dB above AGC



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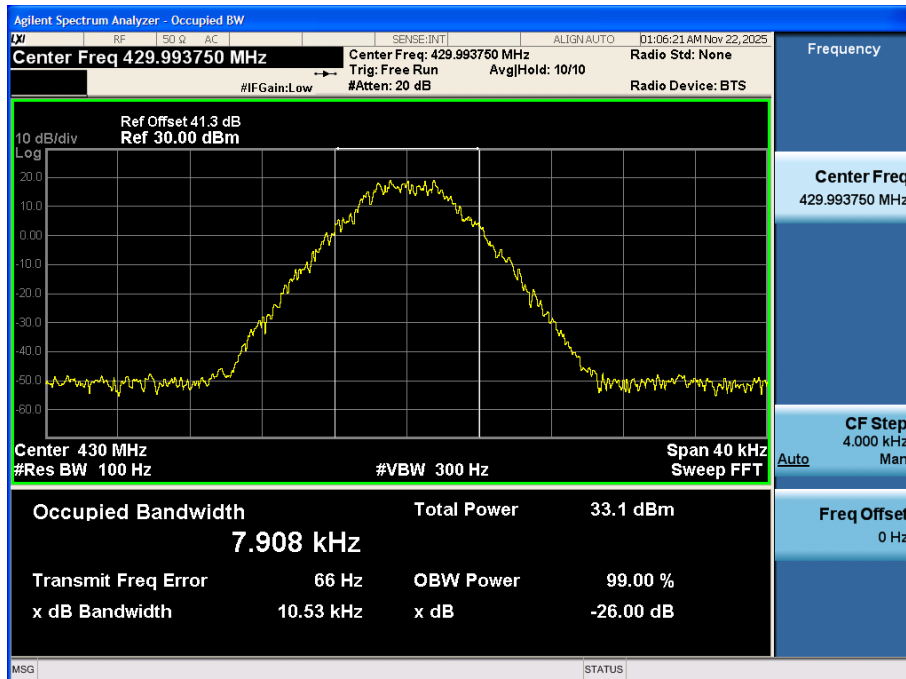
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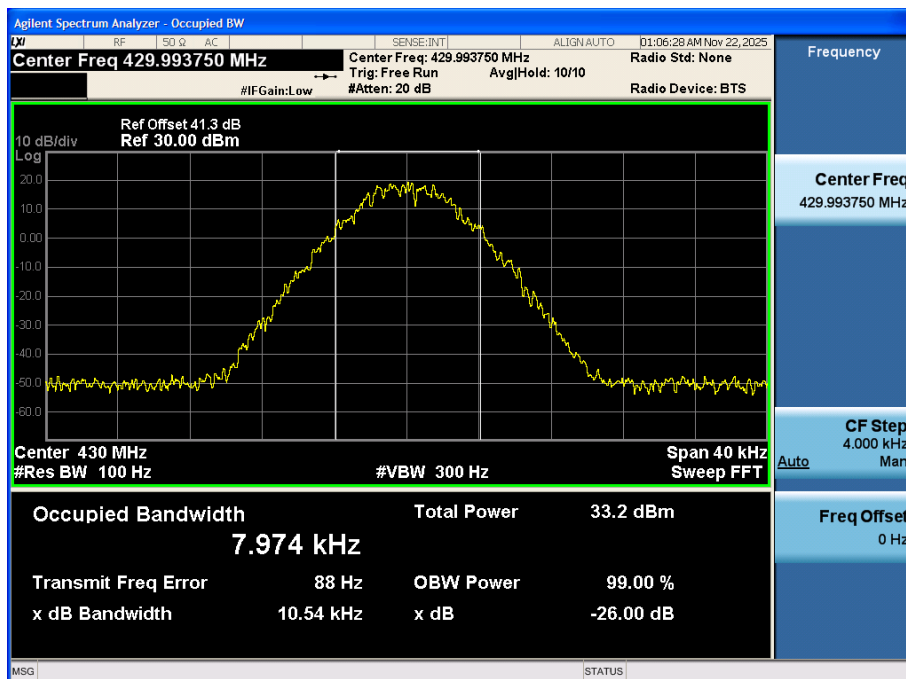
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99% OBW

UL_C4FM_HCH_Output_Pre-AGC



UL_C4FM_HCH_Output_3dB above AGC

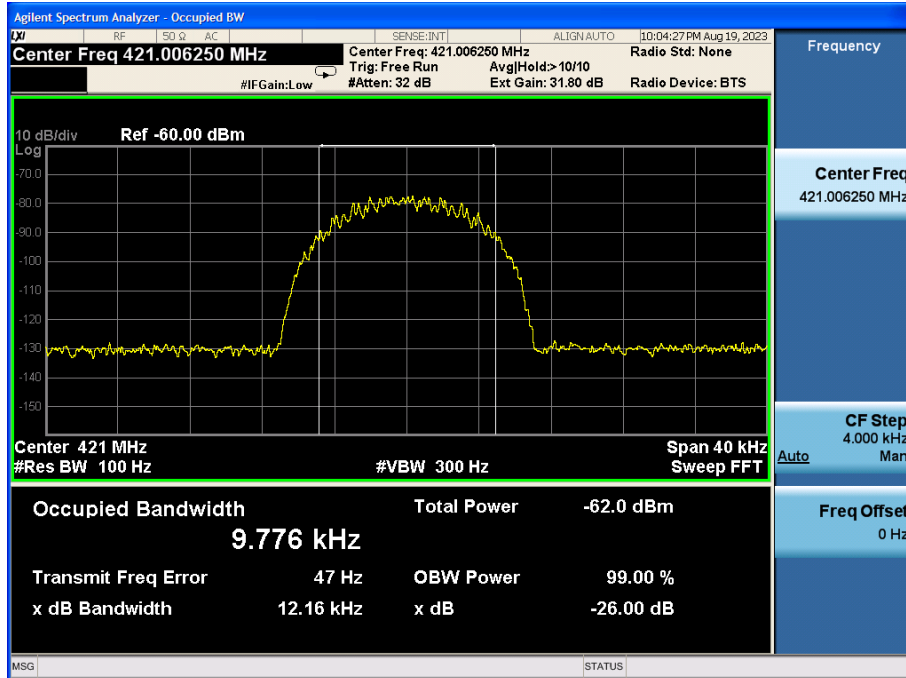


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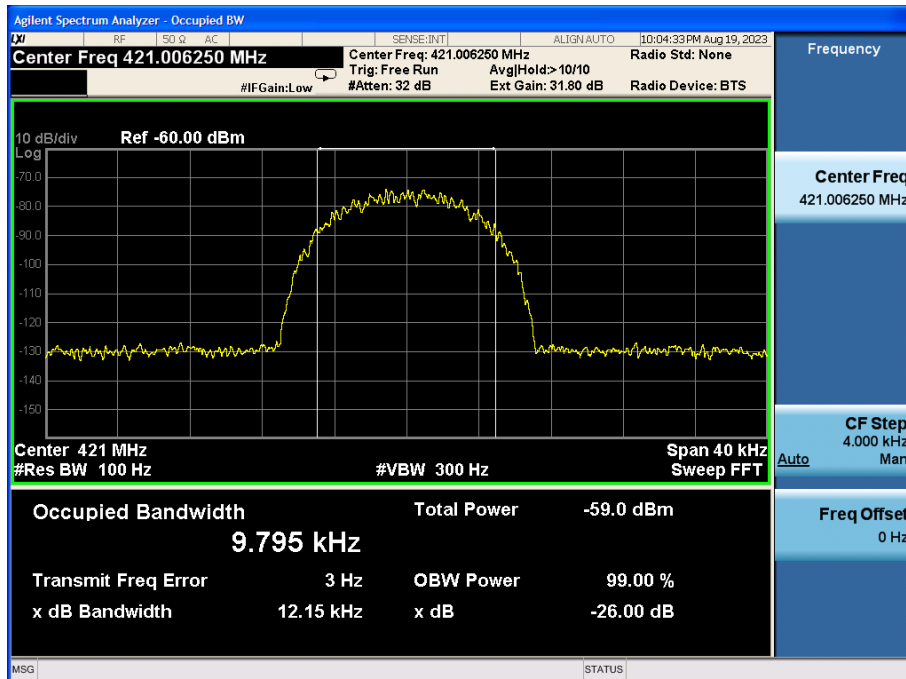
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UL_H-DQPSK_LCH_Input_Pre-AGC



UL_H-DQPSK_LCH_Input_3dB above AGC

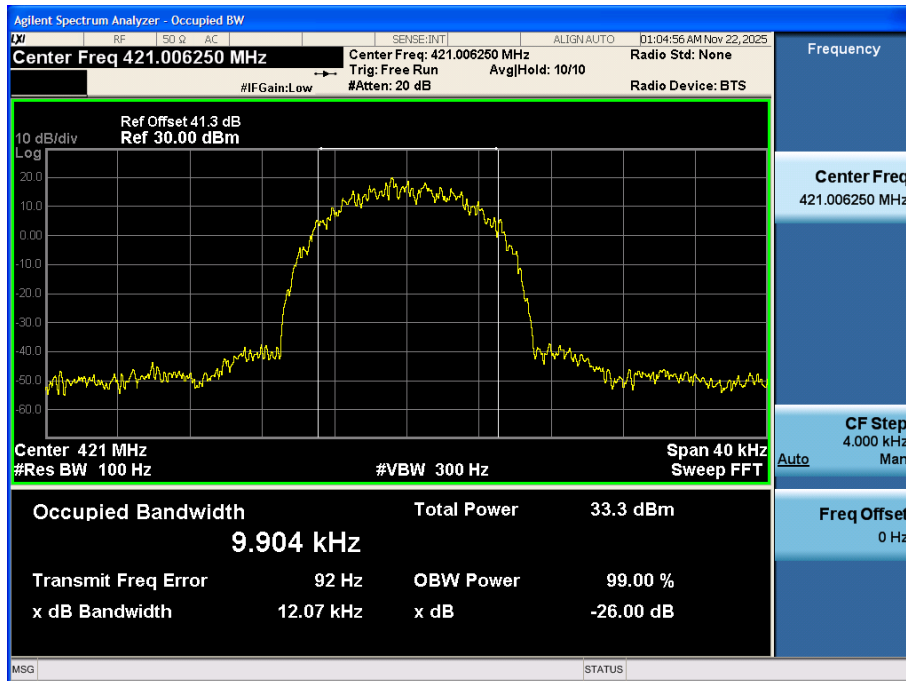


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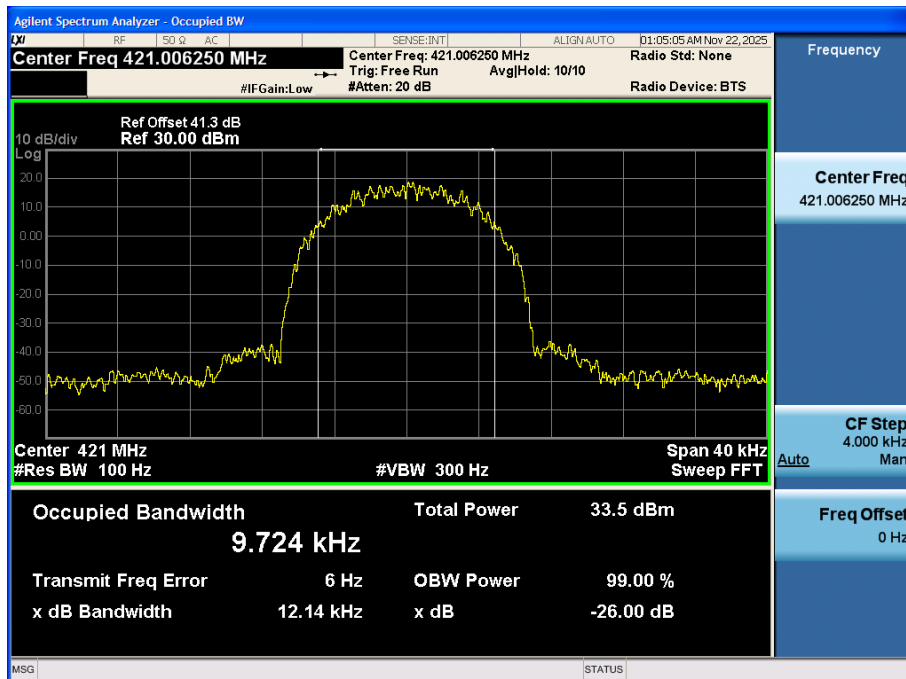
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99% OBW

UL_H-DQPSK_LCH_Output_Pre-AGC



UL_H-DQPSK_LCH_Output_3dB above AGC

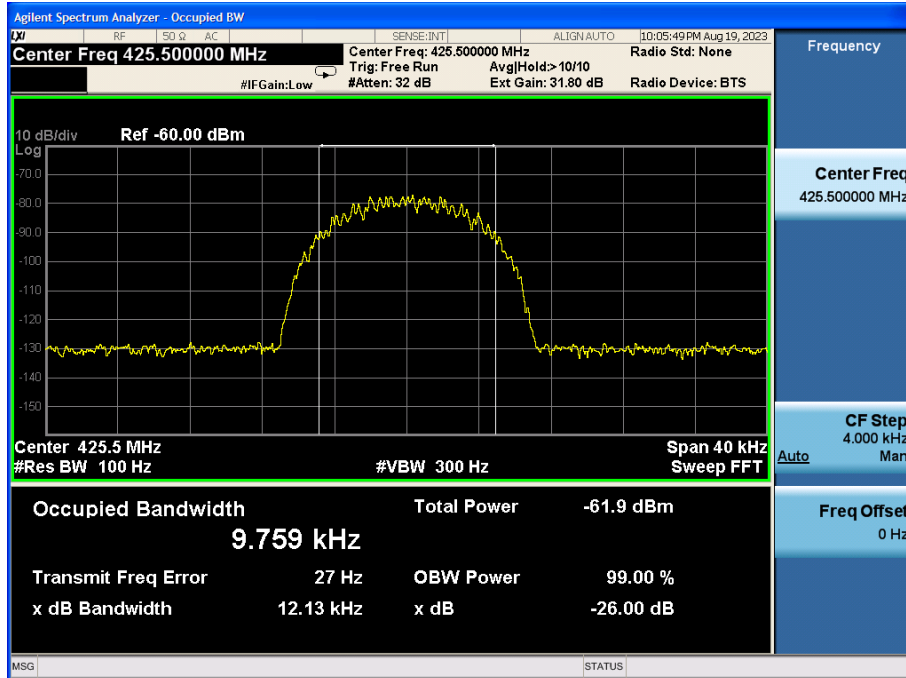


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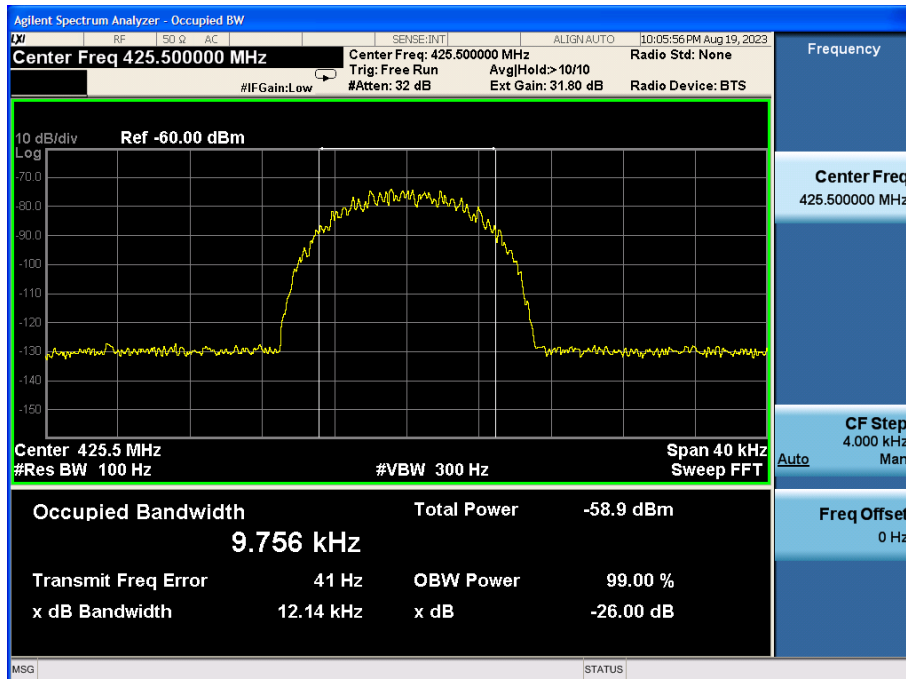
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UL_H-DQPSK_MCH_Input_Pre-AGC



UL_H-DQPSK_MCH_Input_3dB above AGC

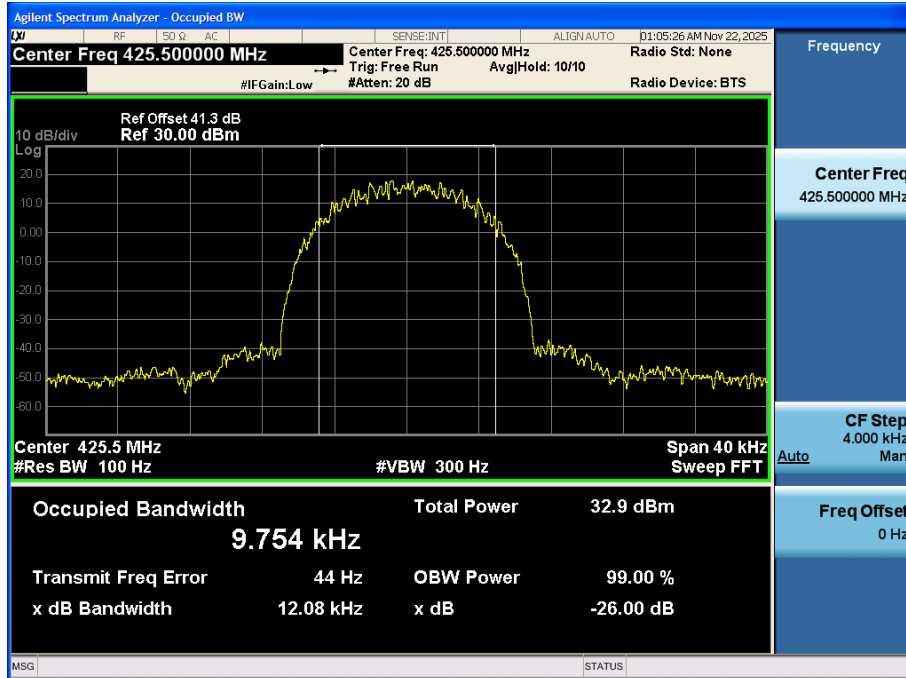


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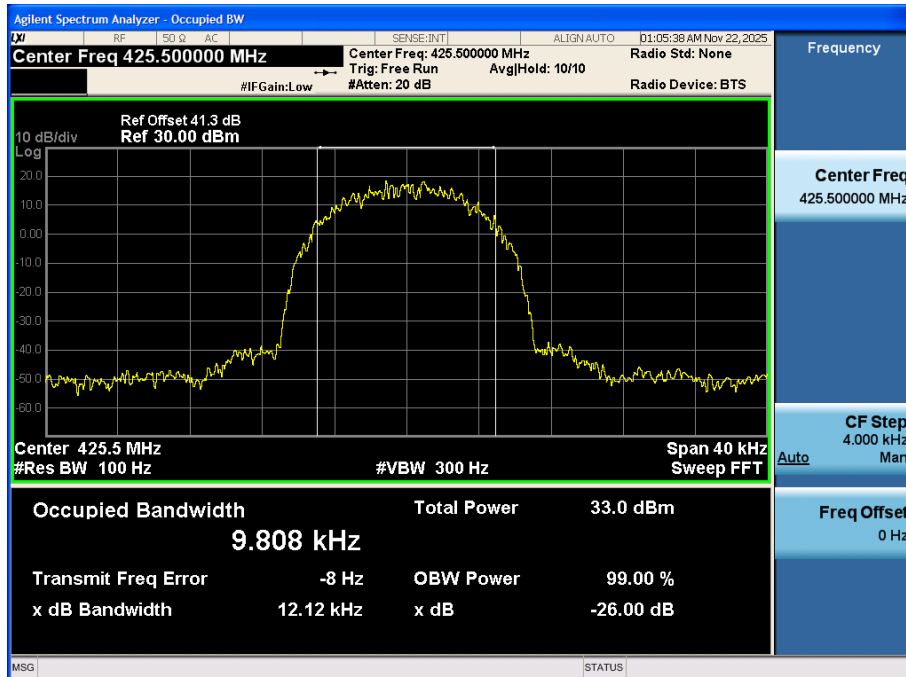
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UL_H-DQPSK_MCH_Output_Pre-AGC



UL_H-DQPSK_MCH_Output_3dB above AGC

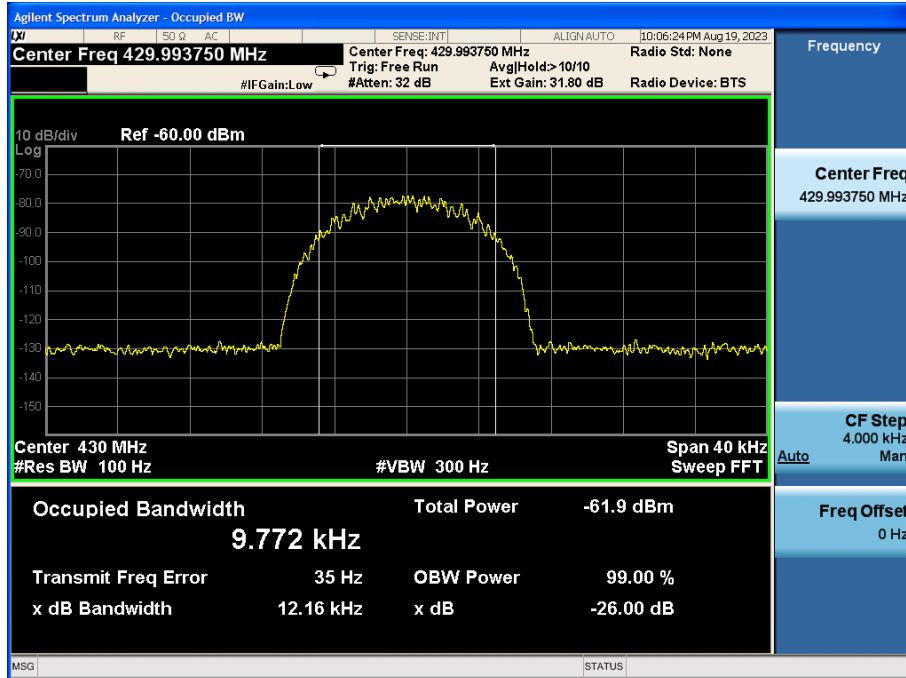


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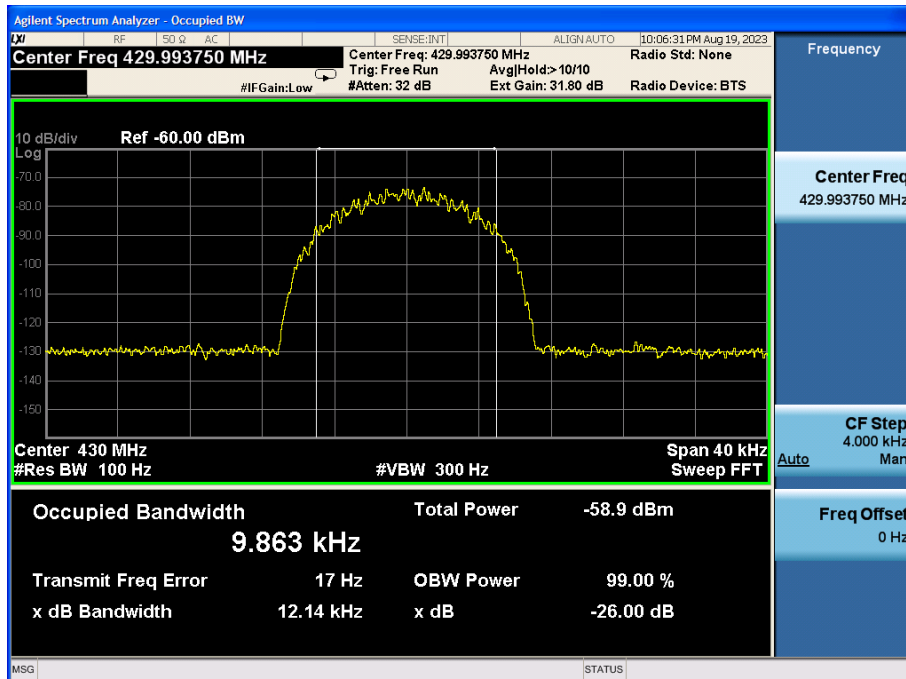
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UL_H-DQPSK_HCH_Input_Pre-AGC



UL_H-DQPSK_HCH_Input_3dB above AGC

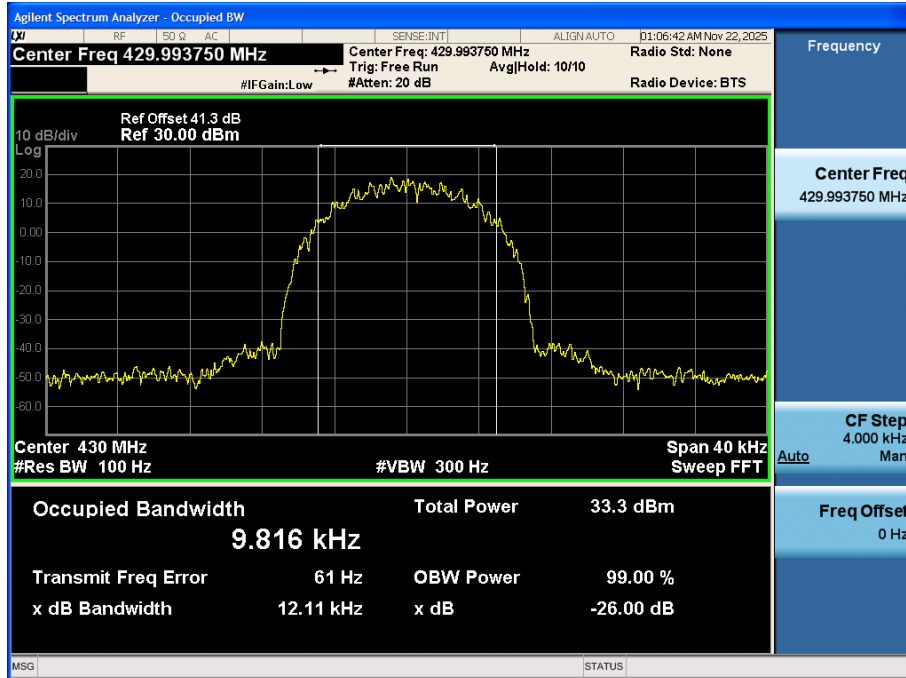


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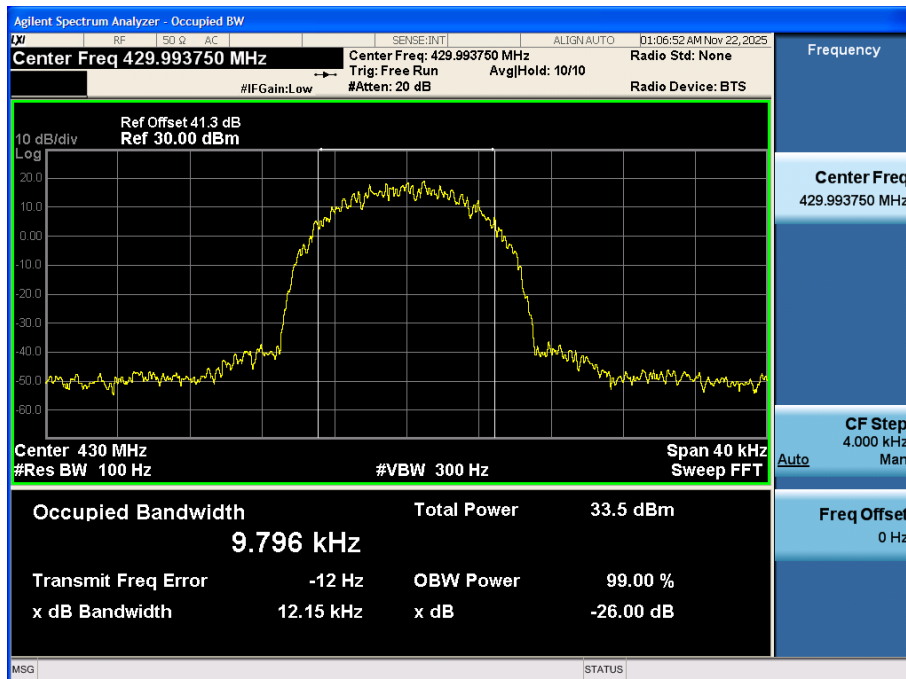
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UL_H-DQPSK_HCH_Output_Pre-AGC



UL_H-DQPSK_HCH_Output_3dB above AGC



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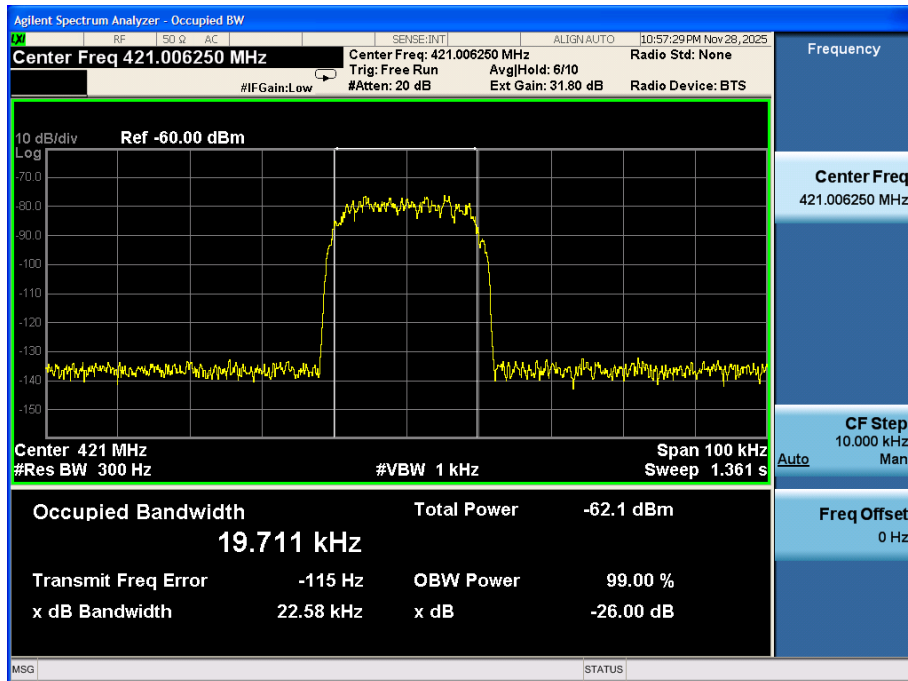
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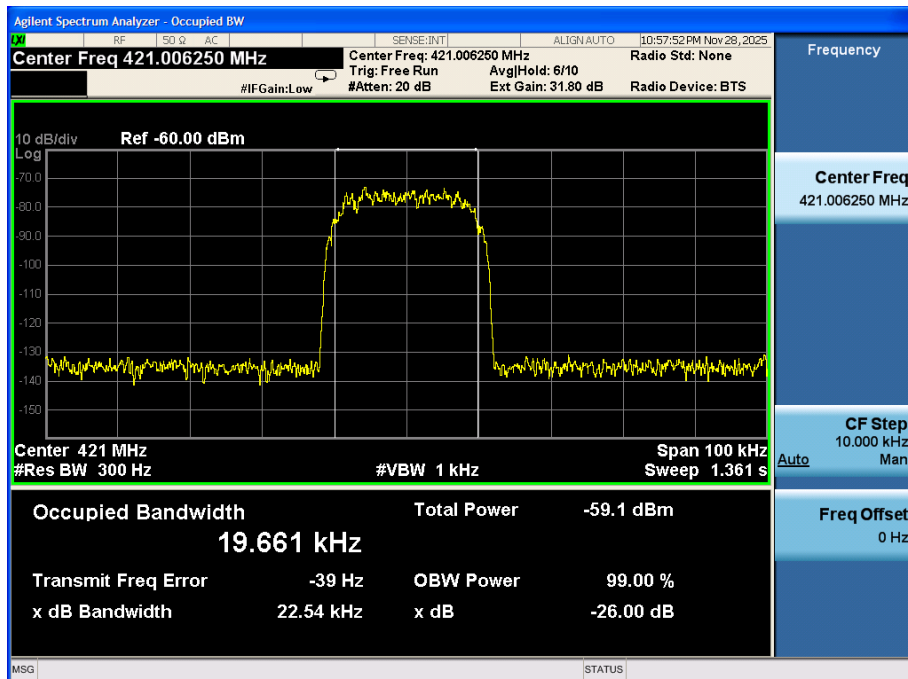
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UL_π/4-DQPSK_LCH_Input_Pre-AGC



UL_π/4-DQPSK_LCH_Input_3dB above AGC

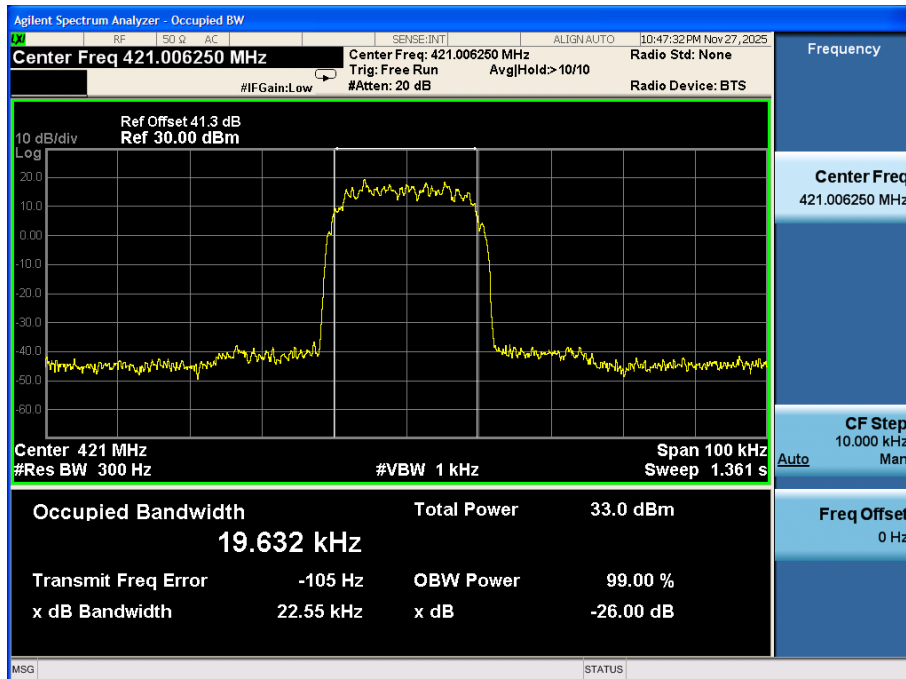


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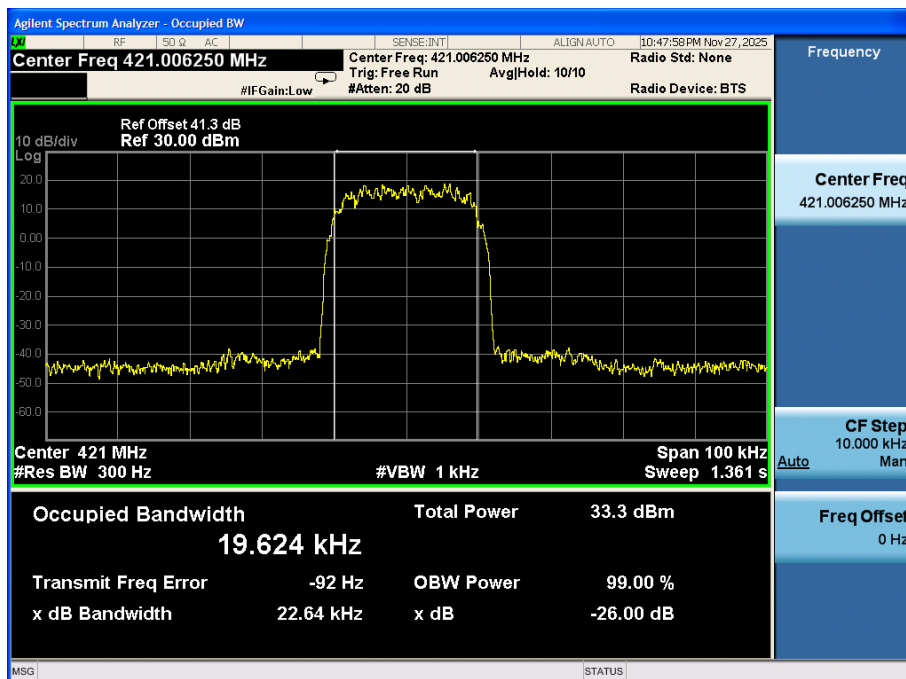
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UL_π/4-DQPSK_LCH_Output_Pre-AGC



UL_π/4-DQPSK_LCH_Output_3dB above AGC



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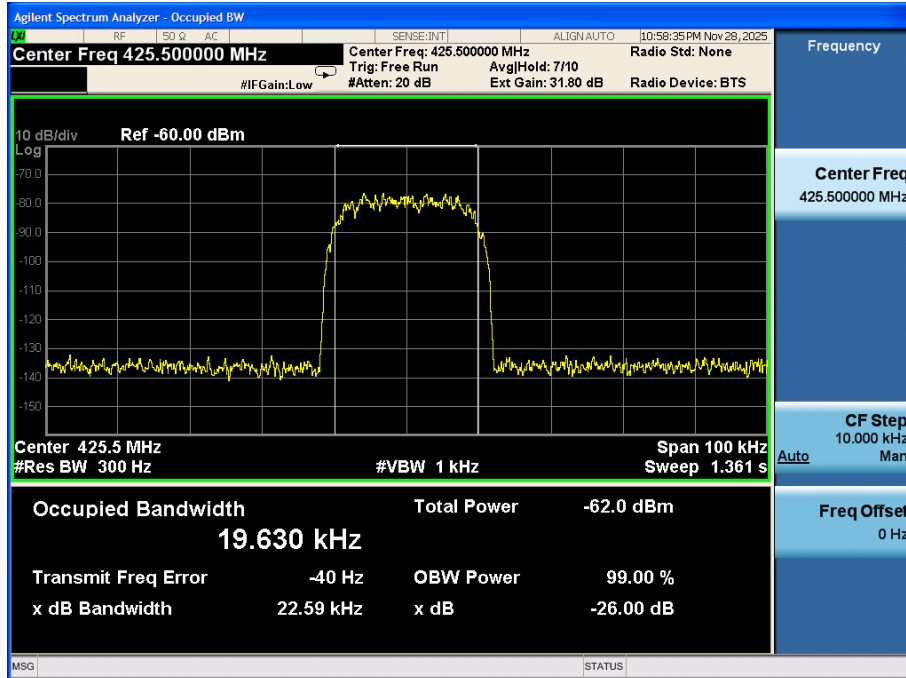
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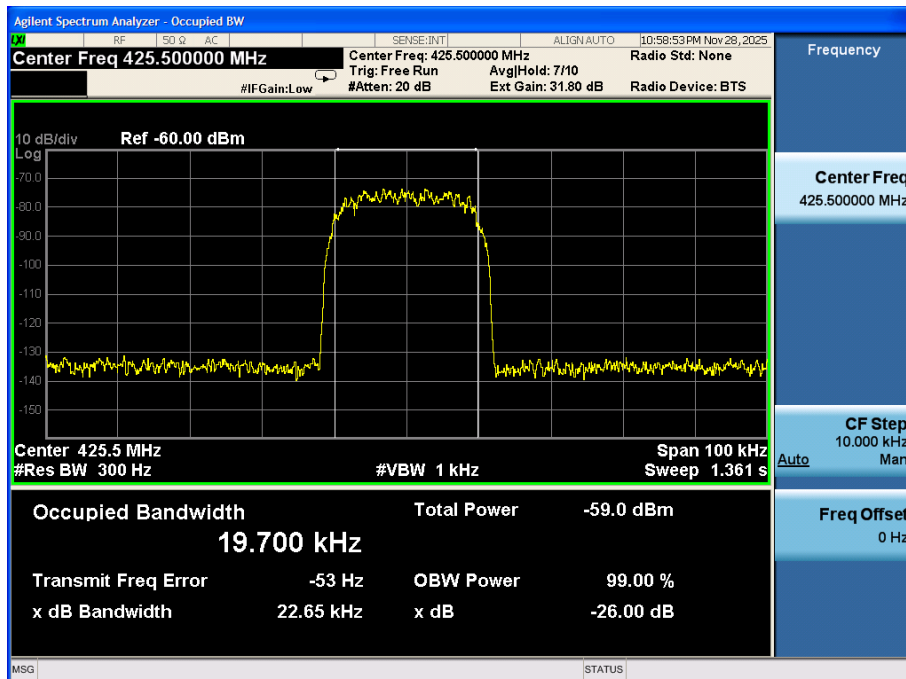
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UL_π/4-DQPSK_MCH_Input_Pre-AGC



UL_π/4-DQPSK_MCH_Input_3dB above AGC

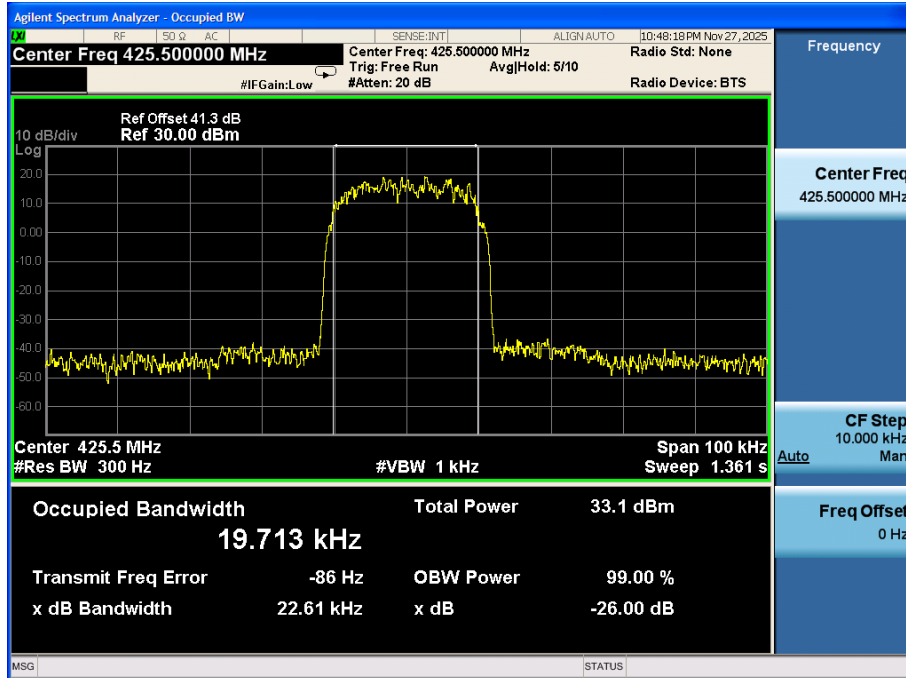


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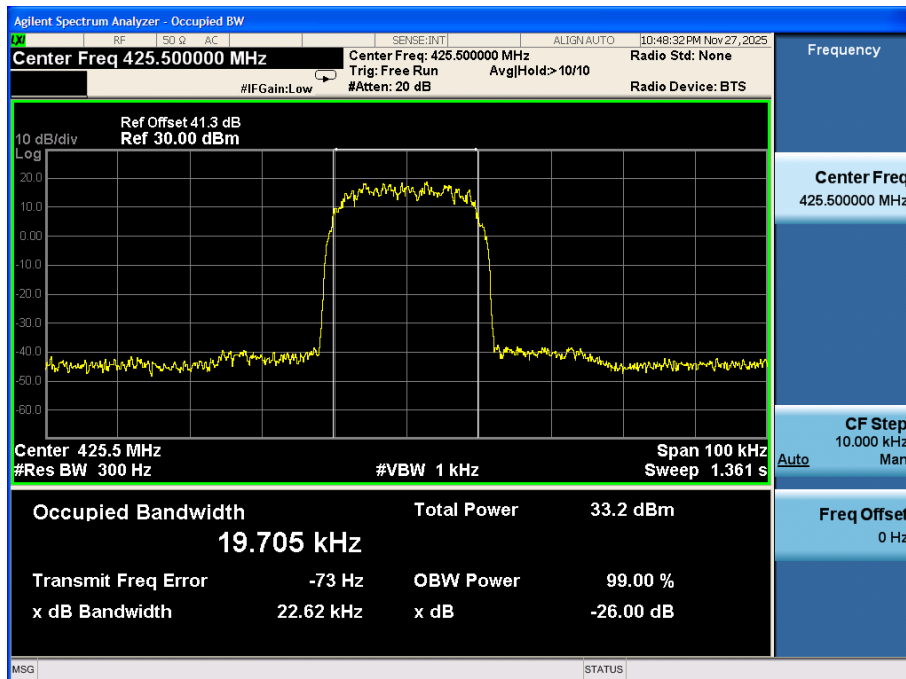
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99% OBW

UL_π/4-DQPSK_MCH_Output_Pre-AGC



UL_π/4-DQPSK_MCH_Output_3dB above AGC

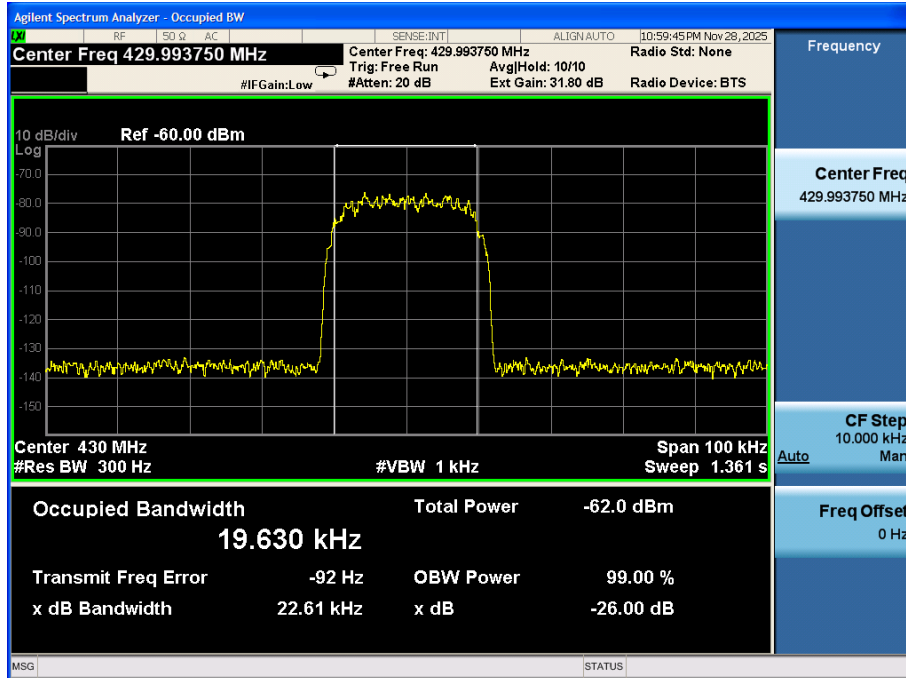


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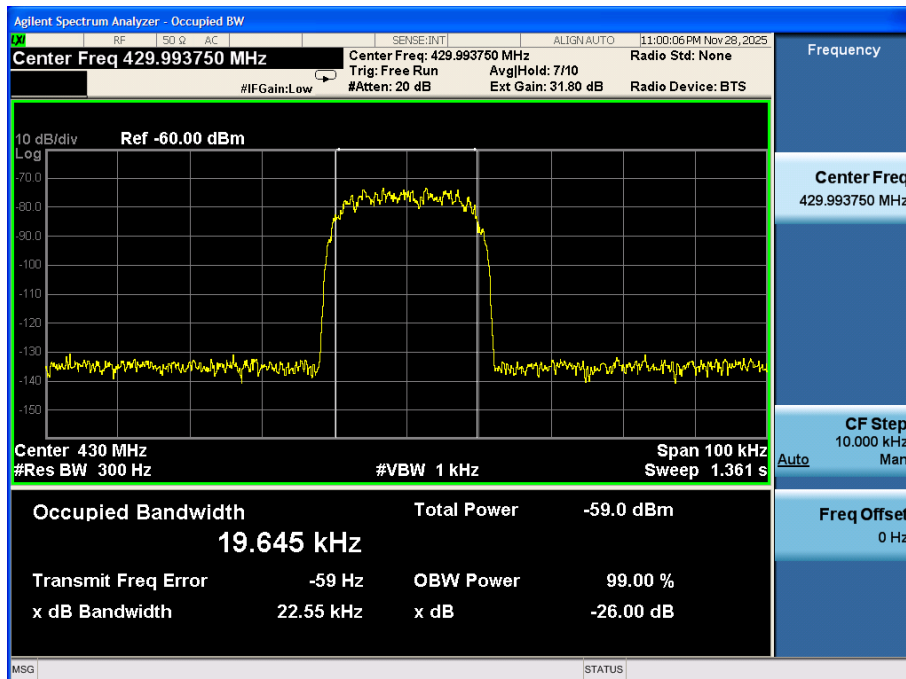
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99% OBW

UL_π/4-DQPSK_HCH_Input_Pre-AGC



UL_π/4-DQPSK_HCH_Input_3dB above AGC

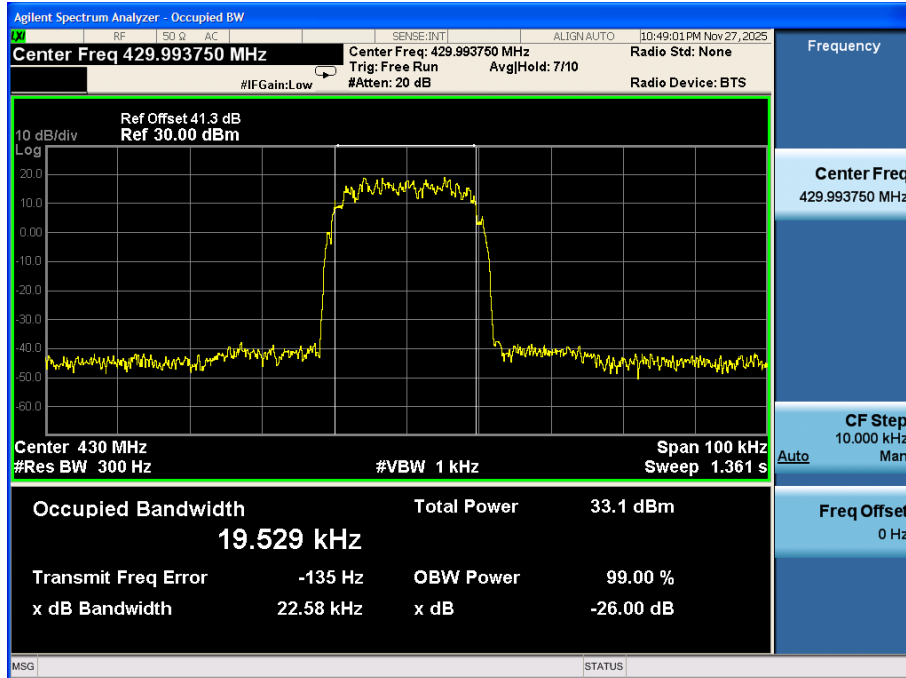


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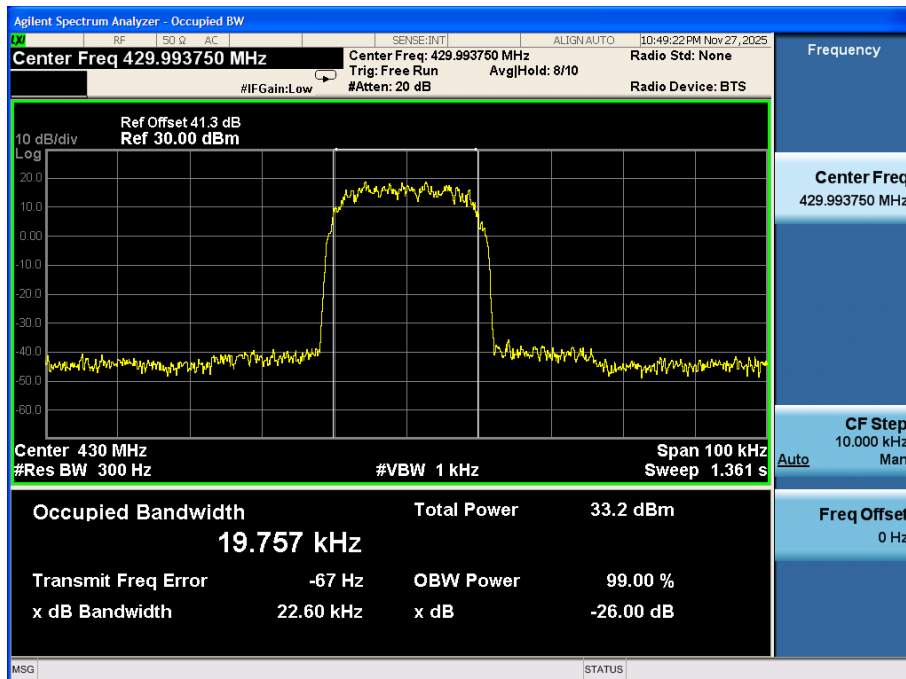
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99% OBW

UL_π/4-DQPSK_HCH_Output_Pre-AGC



UL_π/4-DQPSK_HCH_Output_3dB above AGC



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3 Input/output power and amplifier/booster gain

Input/output power and amplifier/booster gain								
Test path	Test frequency f0 (MHz)	Signal level	Input power (dBm)	Output power (dBm)	ERP (W)	ERP limit (W)	Gain (dB)	Verdict
DL	425.5	Pre-AGC	-59	36.62	2.80	5	95.62	PASS
		3dB above AGC	-56	36.96	3.03		/	PASS
UL	426.0	Pre-AGC	-62	33.02	1.23	5	95.02	PASS
		3dB above AGC	-59	33.50	1.37		/	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 36dBm for DL and 33dBm for UL, and the Output power showed in above table is within ± 1.0 dB tolerance.
- ERP= Output power (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi declared by the manufacturer.



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4 Emission Masks

Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	FM	LCH	Pre-AGC	Mask E	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	DMR	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	C4FM	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	H-DQPSK	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	$\pi/4$ -DQPSK	LCH	Pre-AGC	Mask B	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS



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Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
UL	FM	LCH	Pre-AGC	Mask E	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	DMR	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	C4FM	LCH	Pre-AGC		PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	H-DQPSK	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	$\pi/4$ -DQPSK	LCH	Pre-AGC		PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS



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