

# Appendix -

## Test Data and Result for report

### GZCR240900111901 (A)

(For VHF: 150.05-173.4MHz)



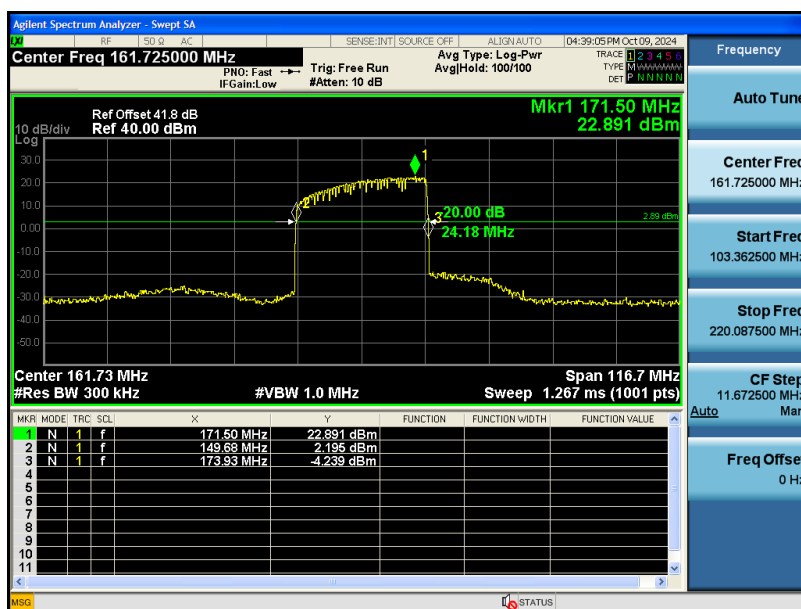
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### 1 Out-of-band rejection

#### Out-of-band rejection

#### DL

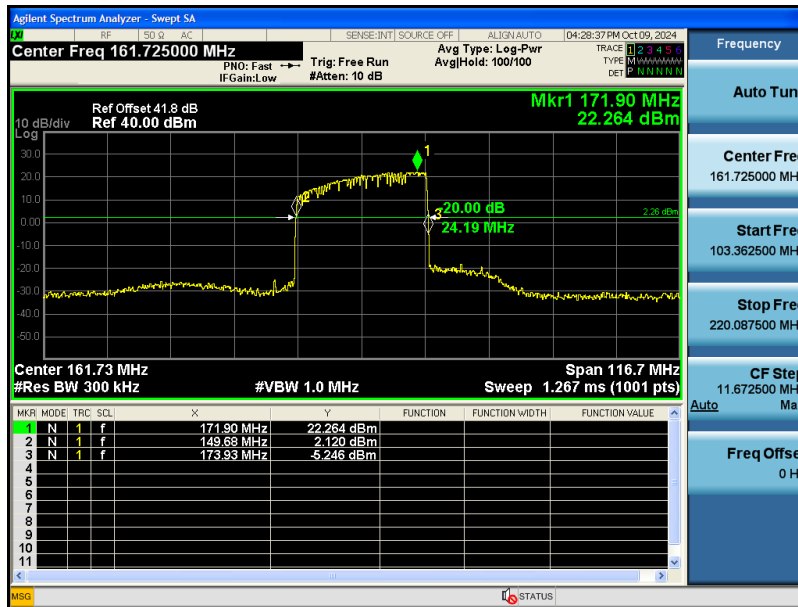


The peak of the frequency response  $f_0$  is 171.5MHz.

The frequency point  $f_0$  with the highest power level fall in the authorized band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.

### Out-of-band rejection

#### UL



The peak of the frequency response f0 is 171.9MHz.

The frequency point f0 with the highest power level fall in the authorized band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.



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## 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

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.

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	TETRA	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
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
		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.

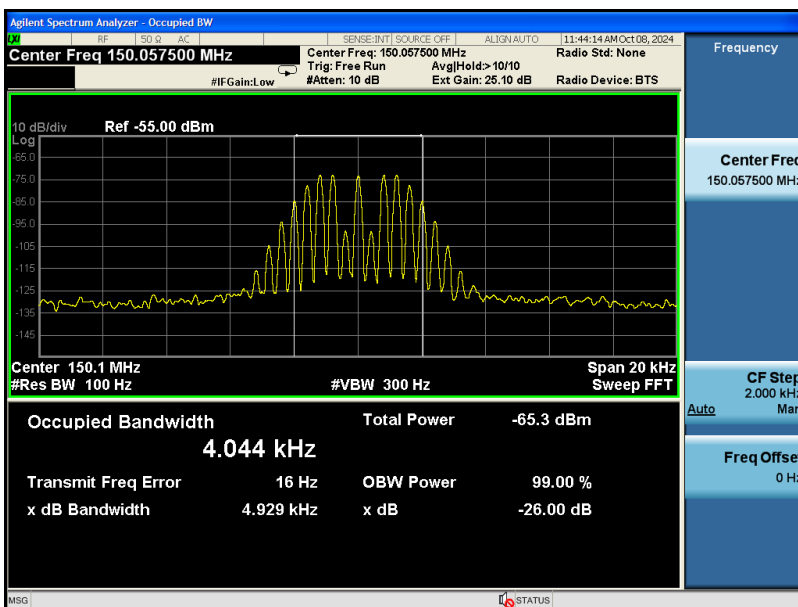


Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
UL	H-DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	TETRA	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

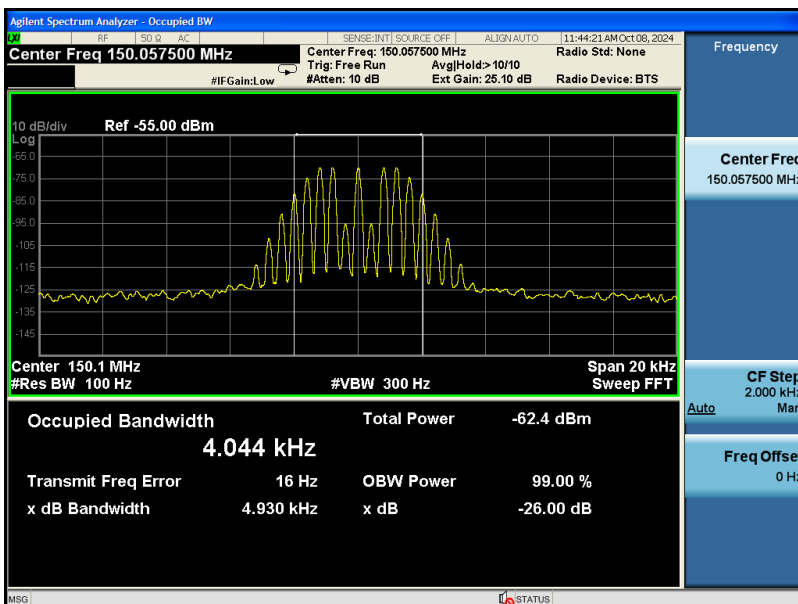
Remark:  
Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

### 99% OBW

### DL\_FM\_LCH\_Input\_Pre-AGC



### DL\_FM\_LCH\_Input\_3dB above AGC

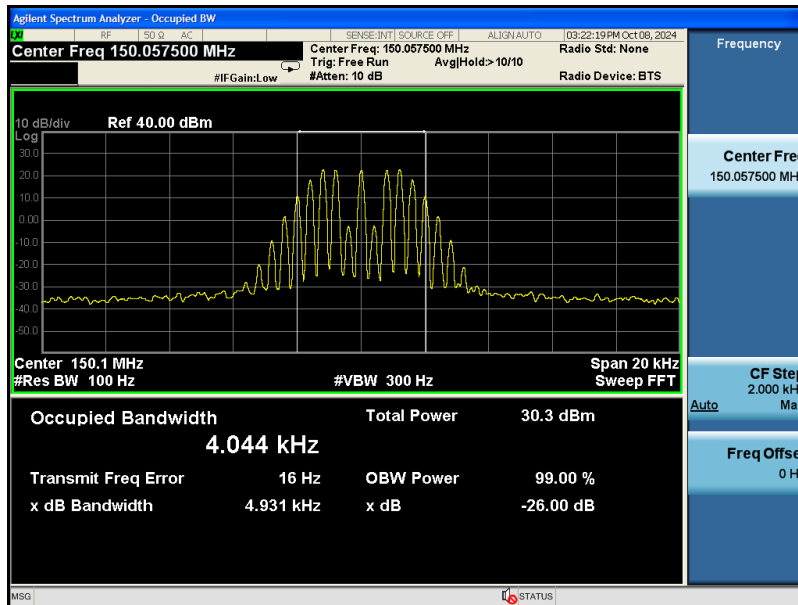


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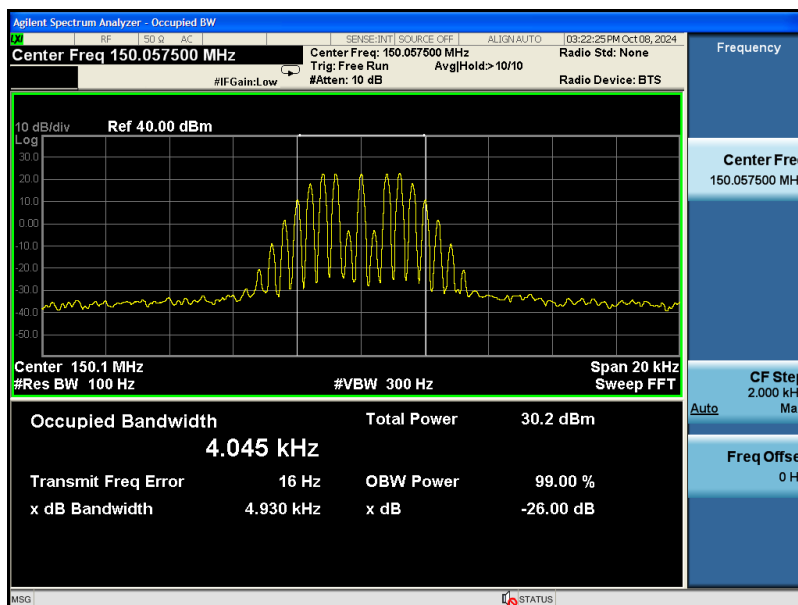
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### 99% OBW

#### DL\_FM\_LCH\_Output\_Pre-AGC



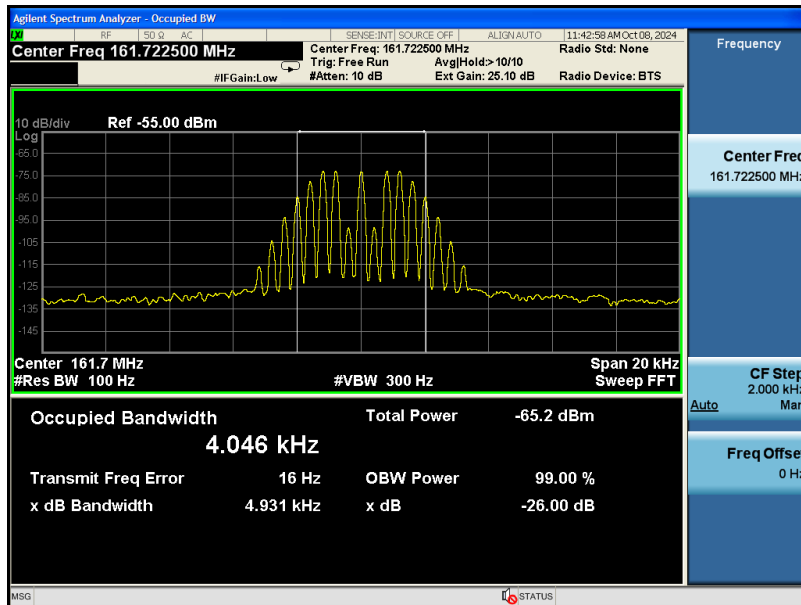
#### DL\_FM\_LCH\_Output\_3dB above AGC



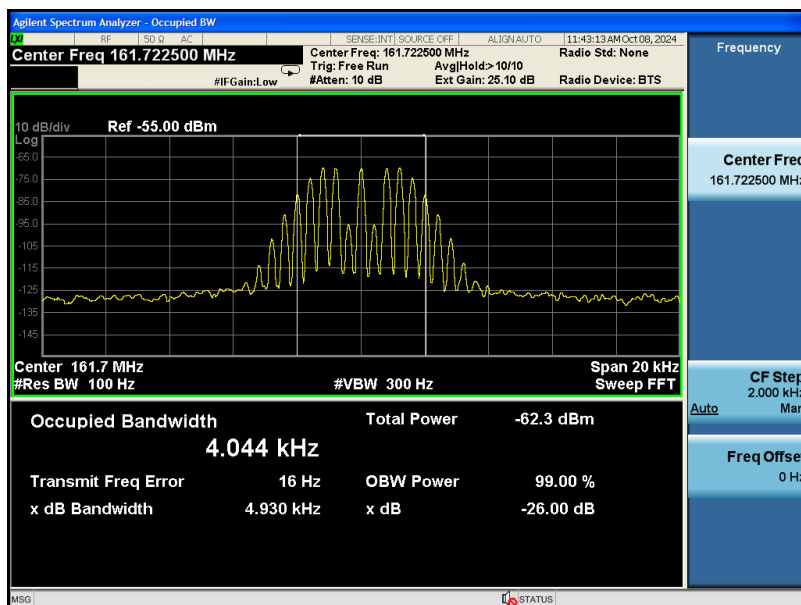


### 99% OBW

#### DL\_FM\_MCH\_Input\_Pre-AGC

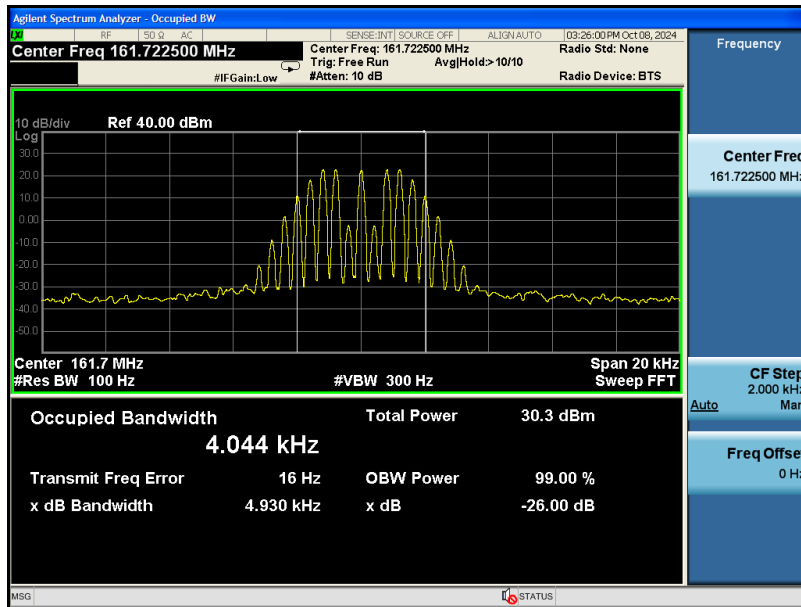


#### DL\_FM\_MCH\_Input\_3dB above AGC

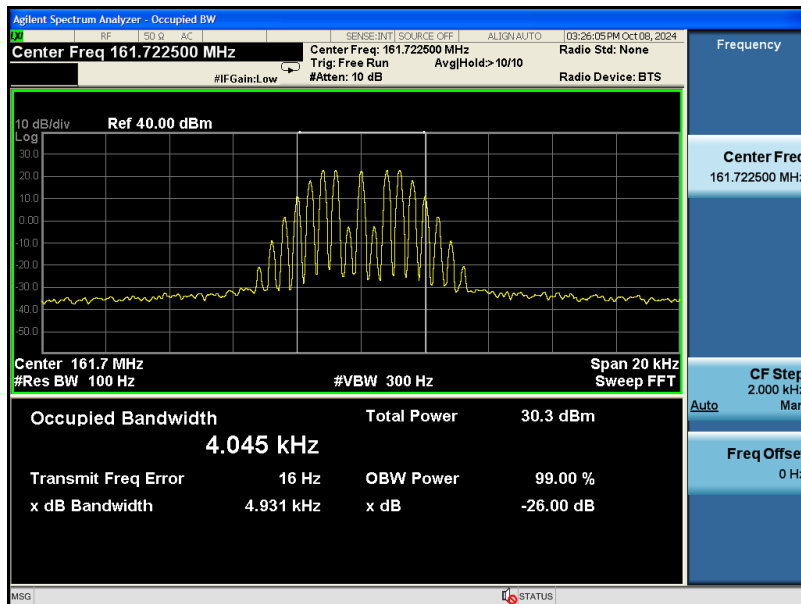


### 99% OBW

#### DL\_FM\_MCH\_Output\_Pre-AGC

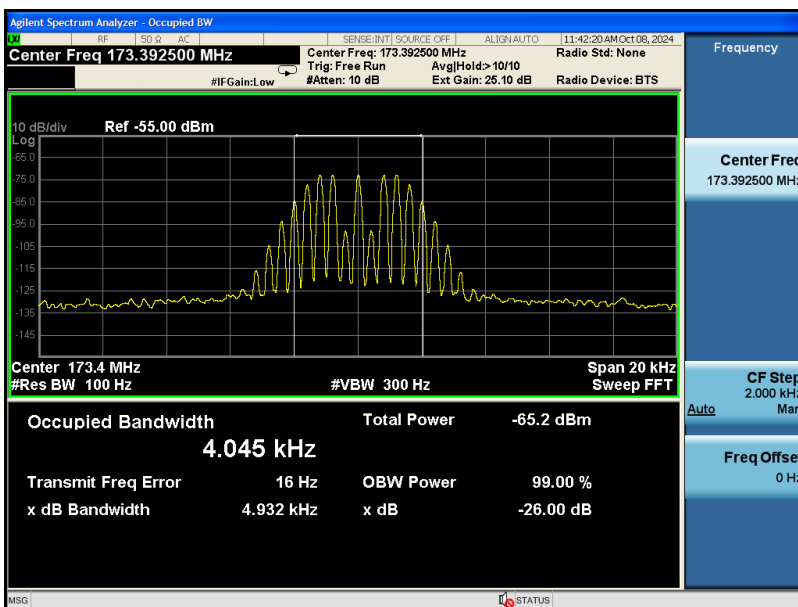


#### DL\_FM\_MCH\_Output\_3dB above AGC

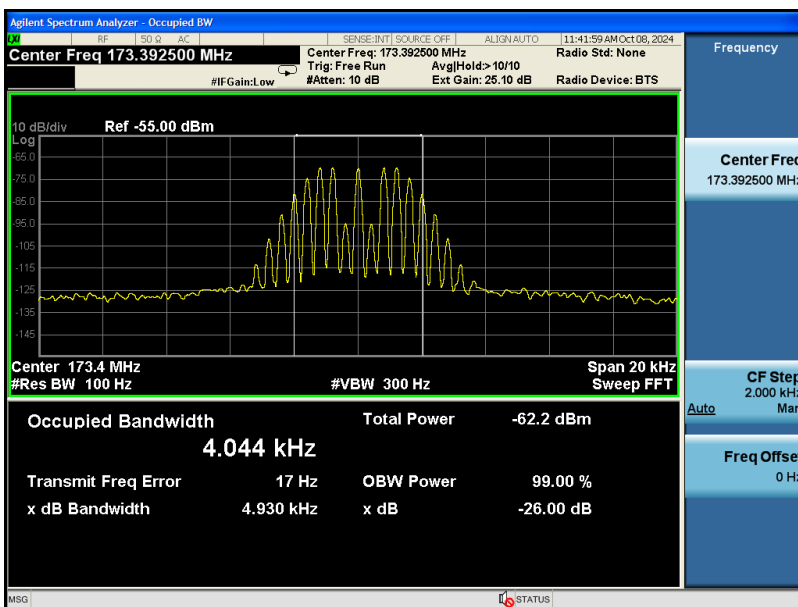


### 99% OBW

#### DL\_FM\_HCH\_Input\_Pre-AGC

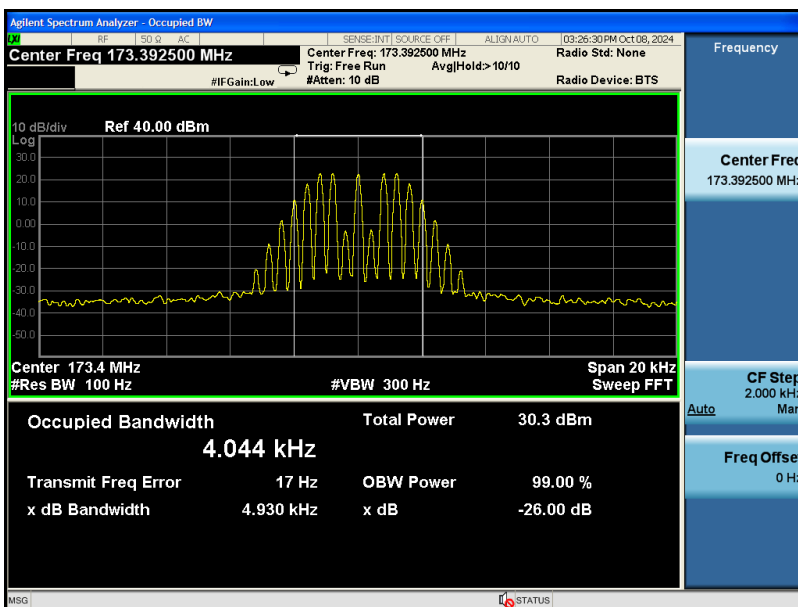


#### DL\_FM\_HCH\_Input\_3dB above AGC

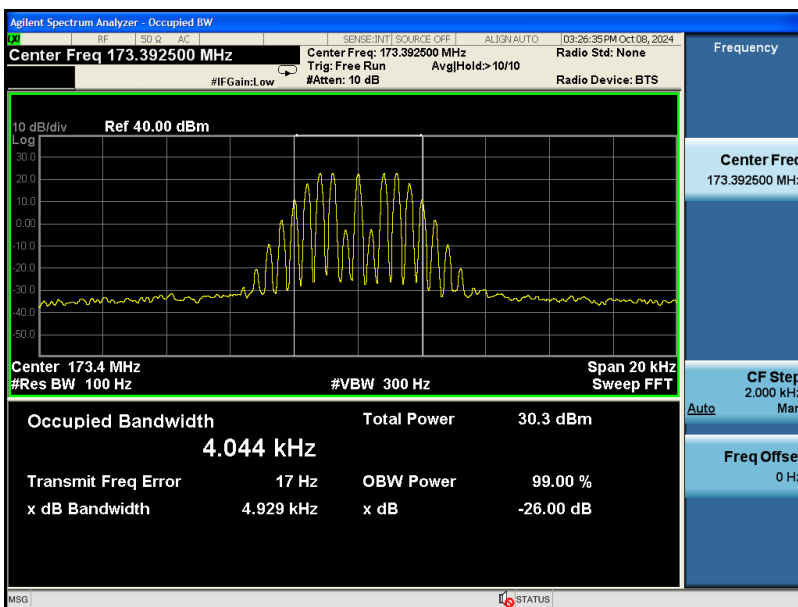


### 99% OBW

#### DL\_FM\_HCH\_Output\_Pre-AGC

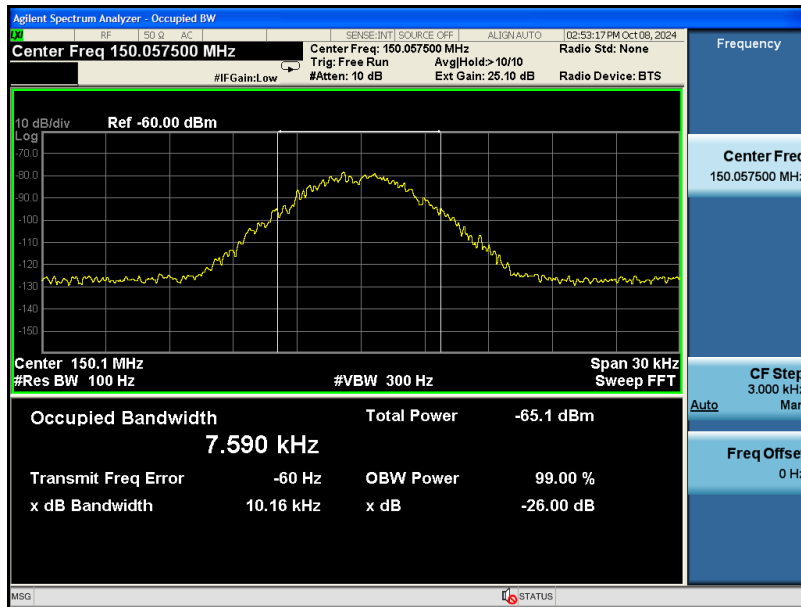


#### DL\_FM\_HCH\_Output\_3dB above AGC

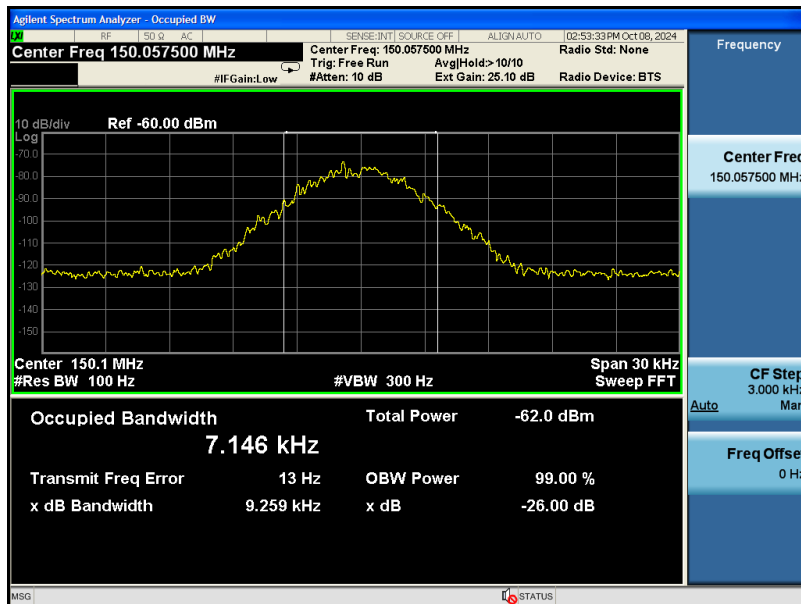


### 99% OBW

#### DL\_DMR\_LCH\_Input\_Pre-AGC



#### DL\_DMR\_LCH\_Input\_3dB above AGC



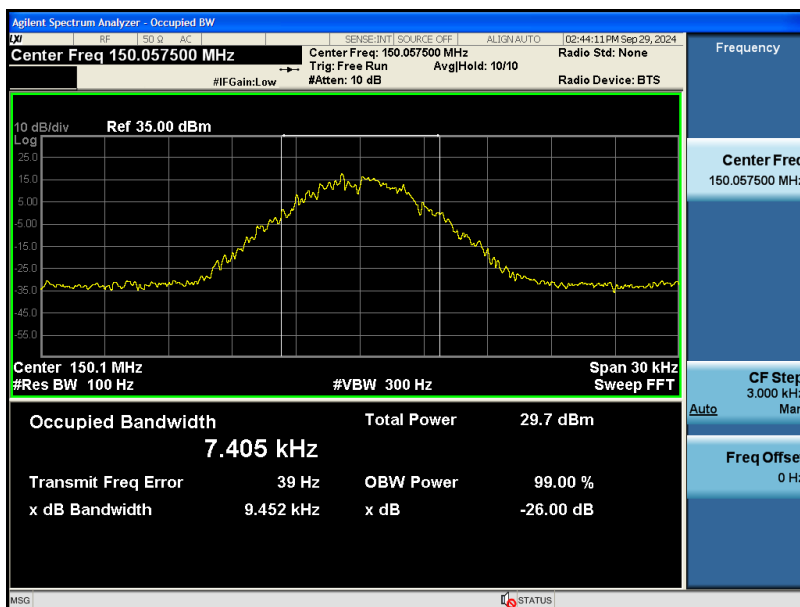
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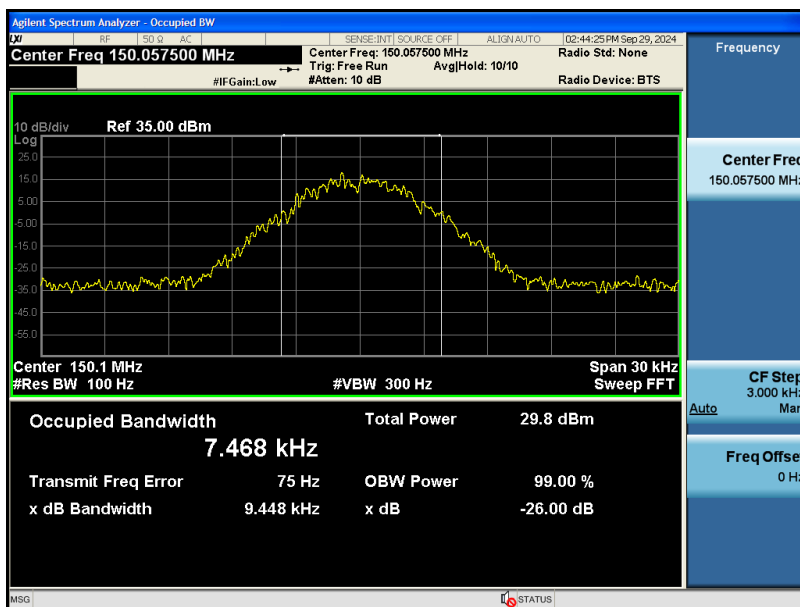


### 99% OBW

#### DL\_DMR\_LCH\_Output\_Pre-AGC

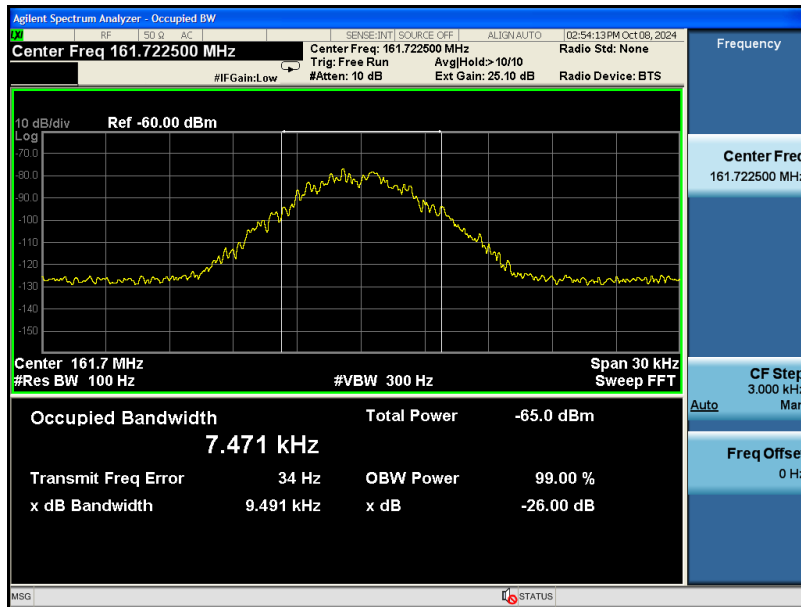


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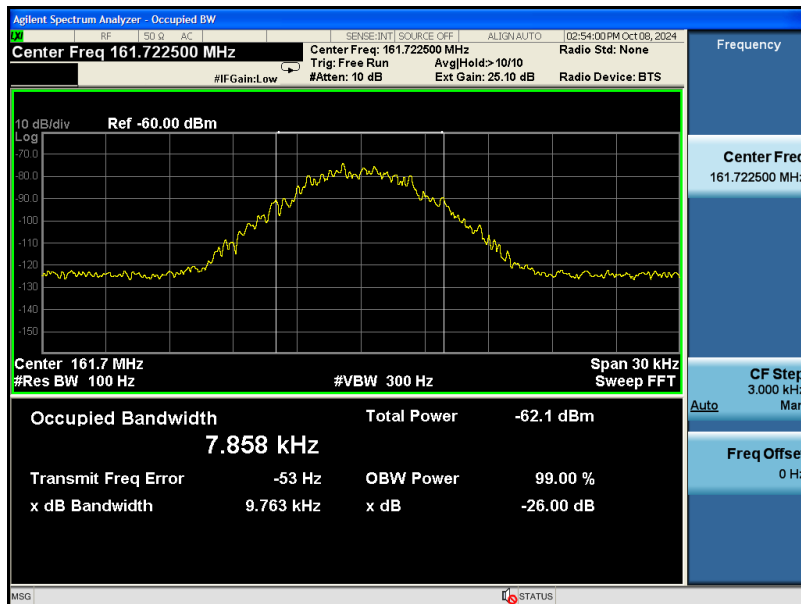


### 99% OBW

#### DL\_DMR\_MCH\_Input\_Pre-AGC

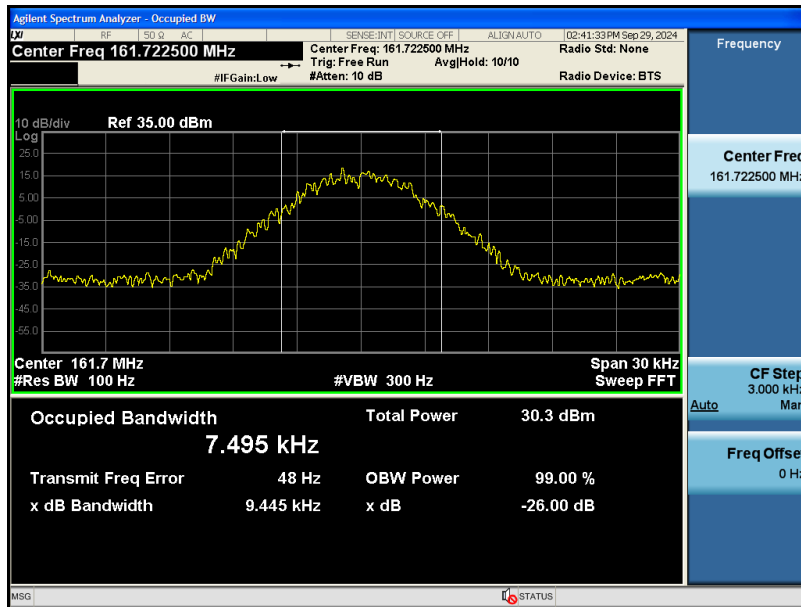


#### DL\_DMR\_MCH\_Input\_3dB above AGC

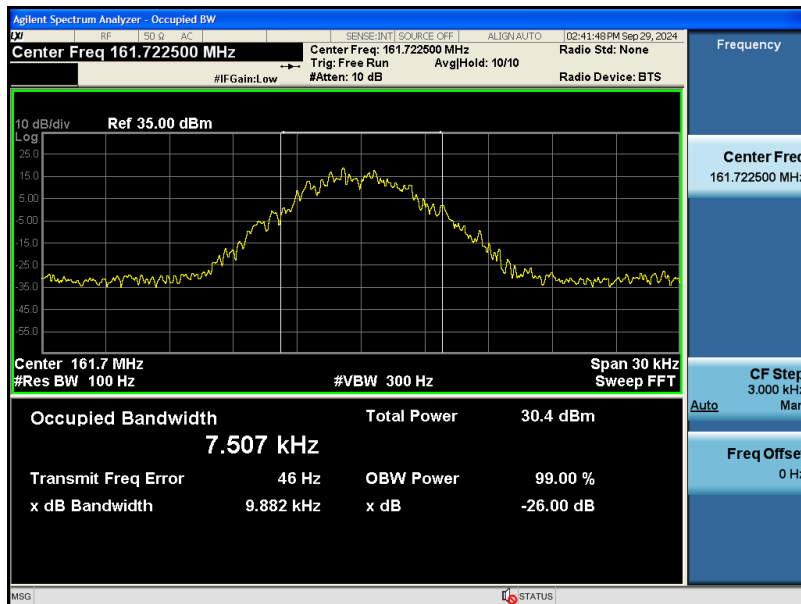


### 99% OBW

#### DL\_DMR\_MCH\_Output\_Pre-AGC



#### DL\_DMR\_MCH\_Output\_3dB above AGC

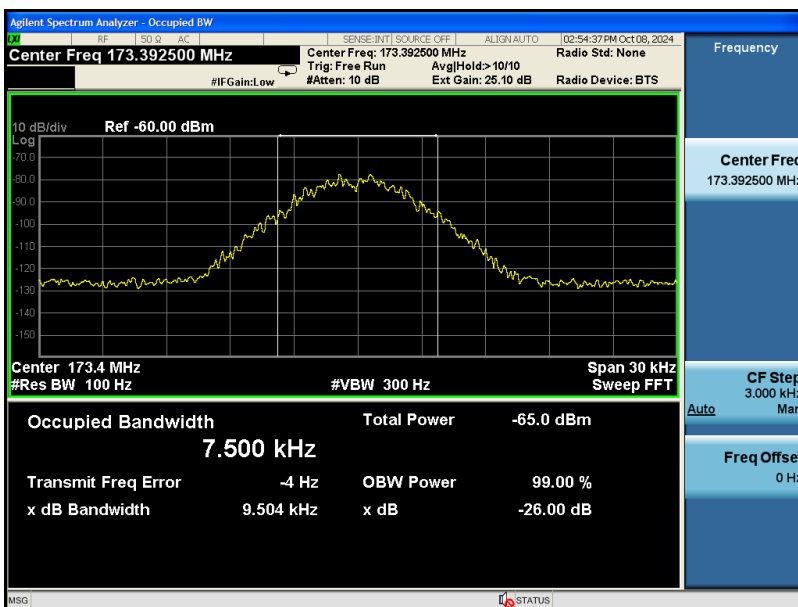


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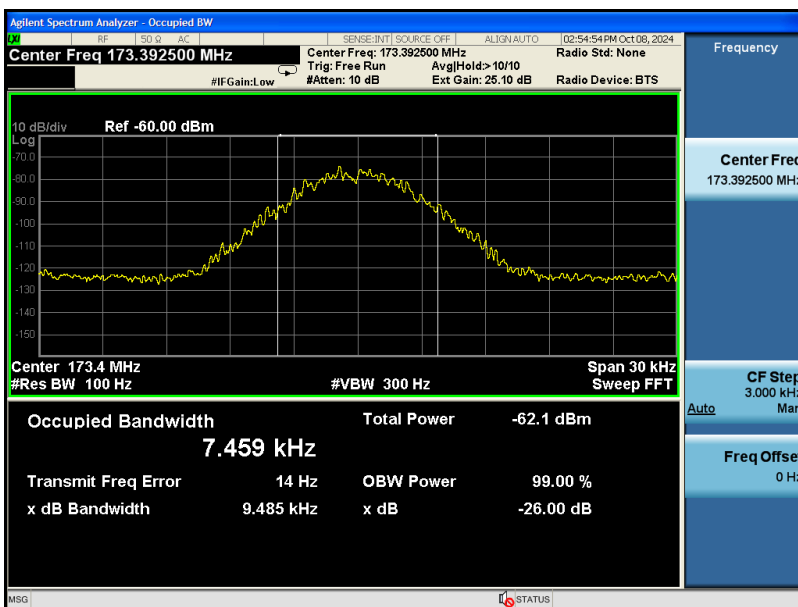
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### 99% OBW

#### DL\_DMR\_HCH\_Input\_Pre-AGC



#### DL\_DMR\_HCH\_Input\_3dB above AGC

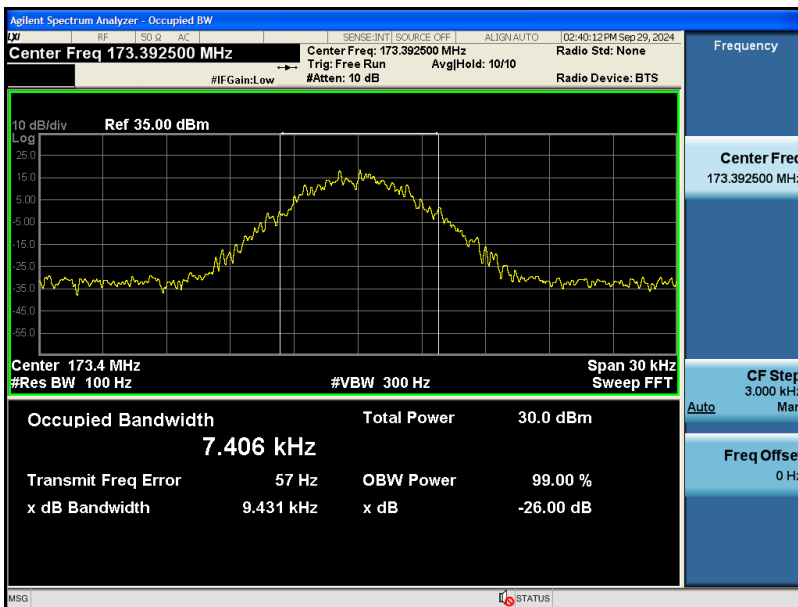


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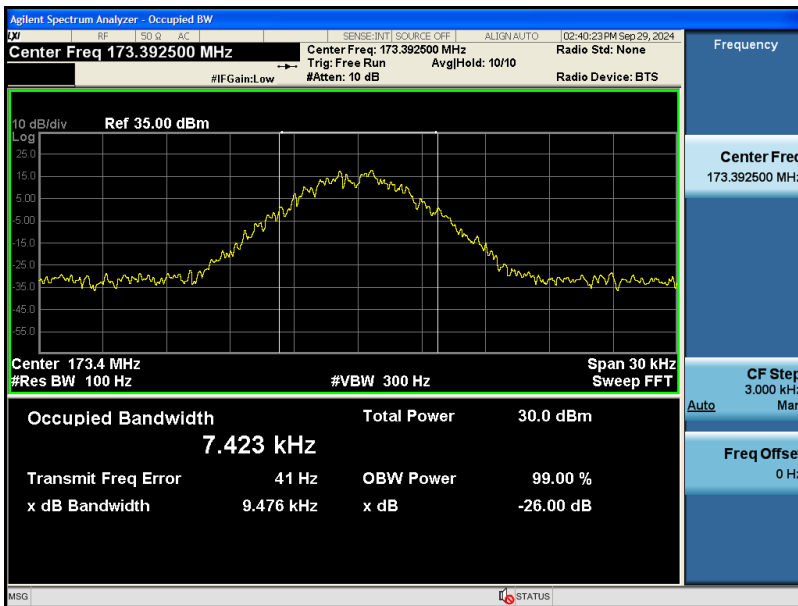
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#### DL\_DMR\_HCH\_Output\_Pre-AGC



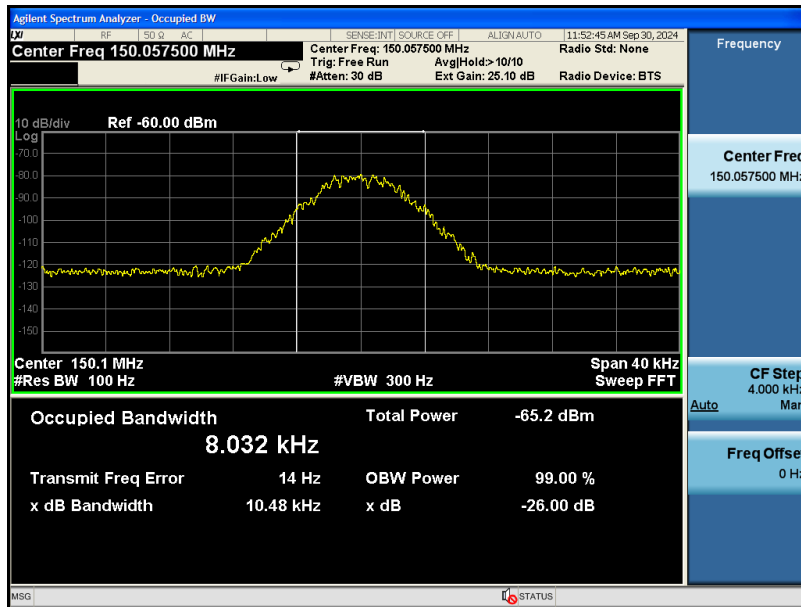
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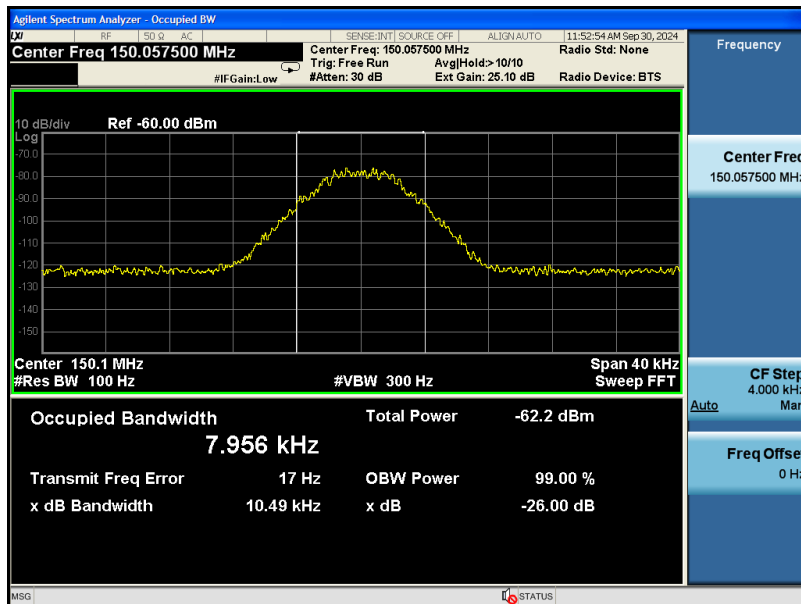


### 99% OBW

#### DL\_C4FM\_LCH\_Input\_Pre-AGC



#### DL\_C4FM\_LCH\_Input\_3dB above AGC

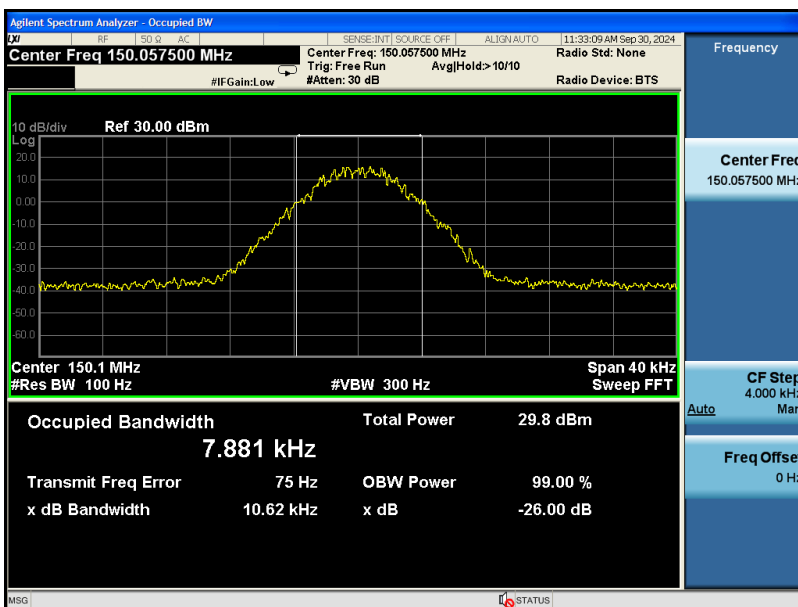


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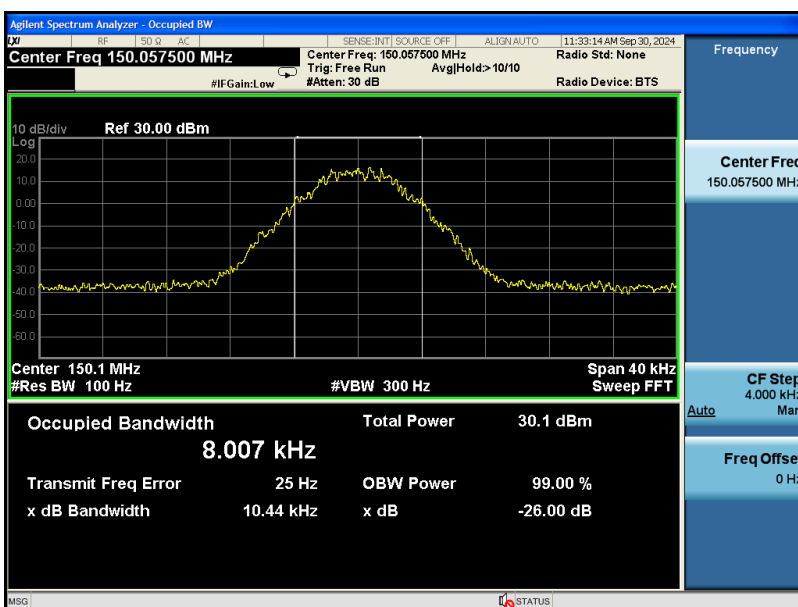
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### 99% OBW

#### DL\_C4FM\_LCH\_Output\_Pre-AGC

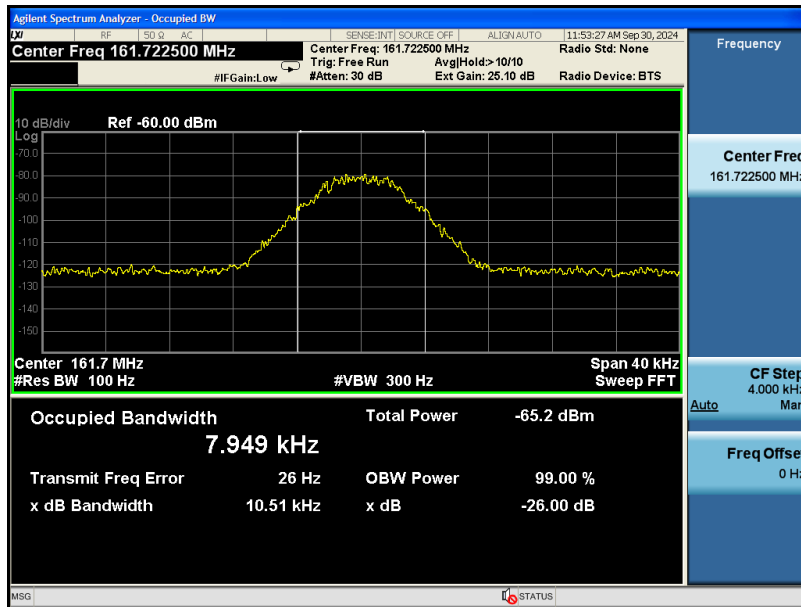


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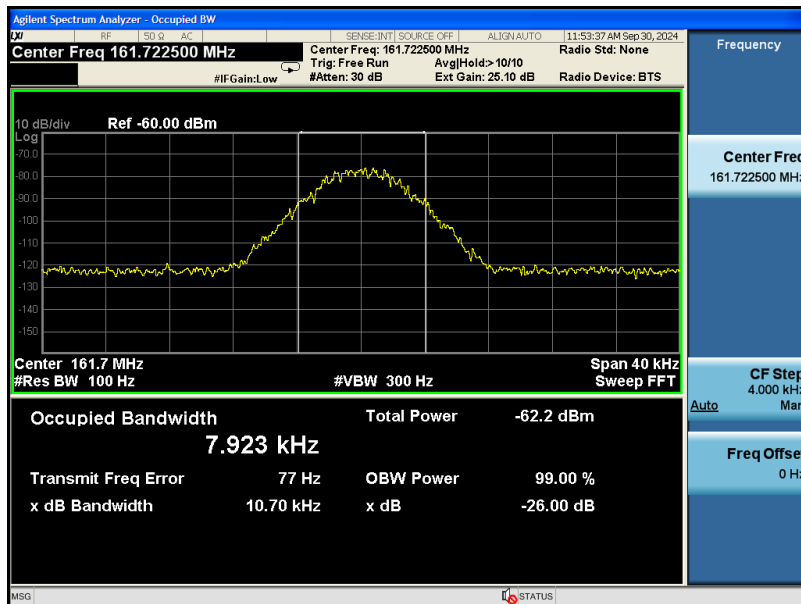


### 99% OBW

#### DL\_C4FM\_MCH\_Input\_Pre-AGC

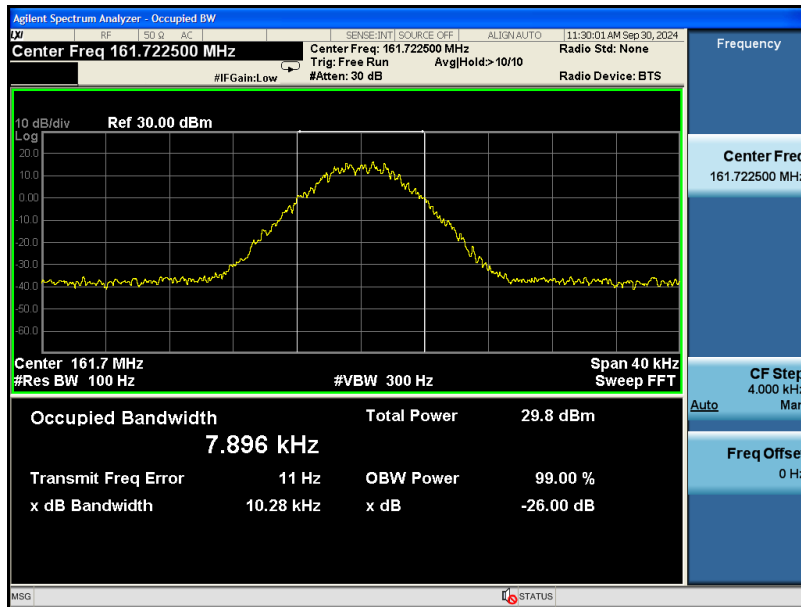


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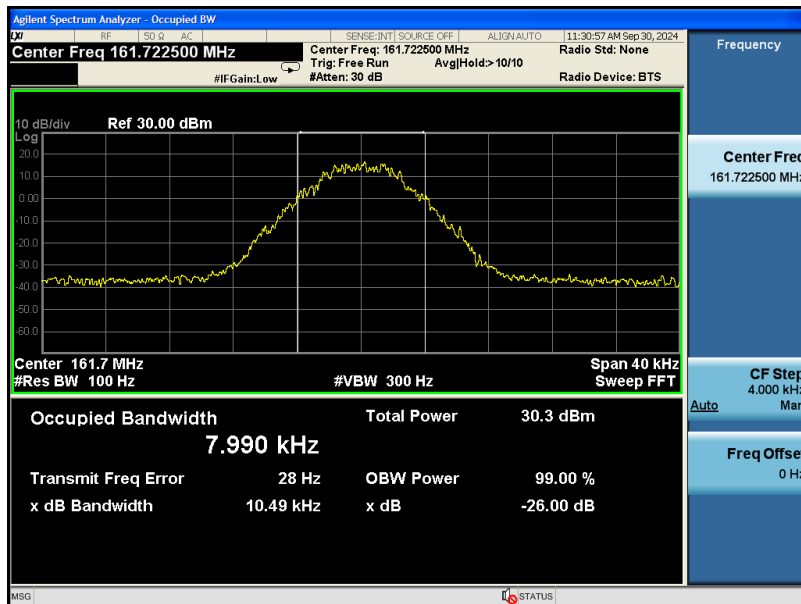


### 99% OBW

#### DL\_C4FM\_MCH\_Output\_Pre-AGC

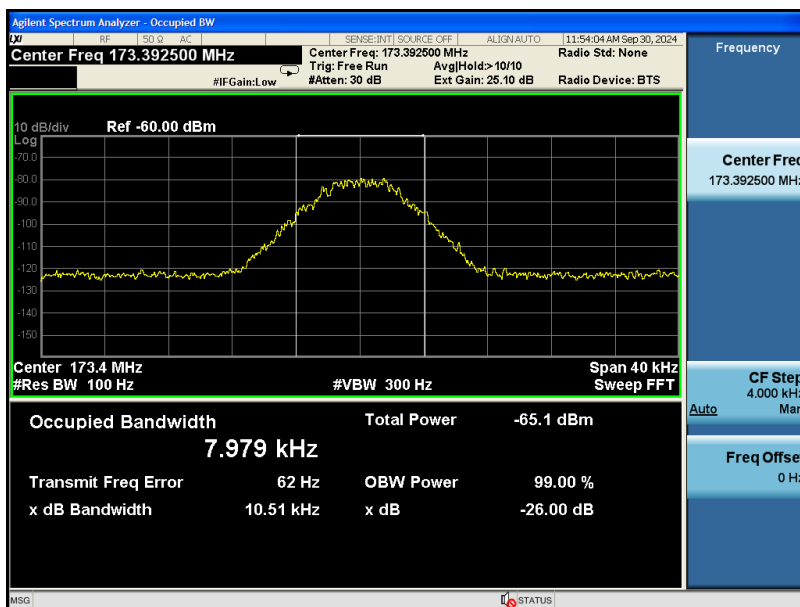


#### DL\_C4FM\_MCH\_Output\_3dB above AGC

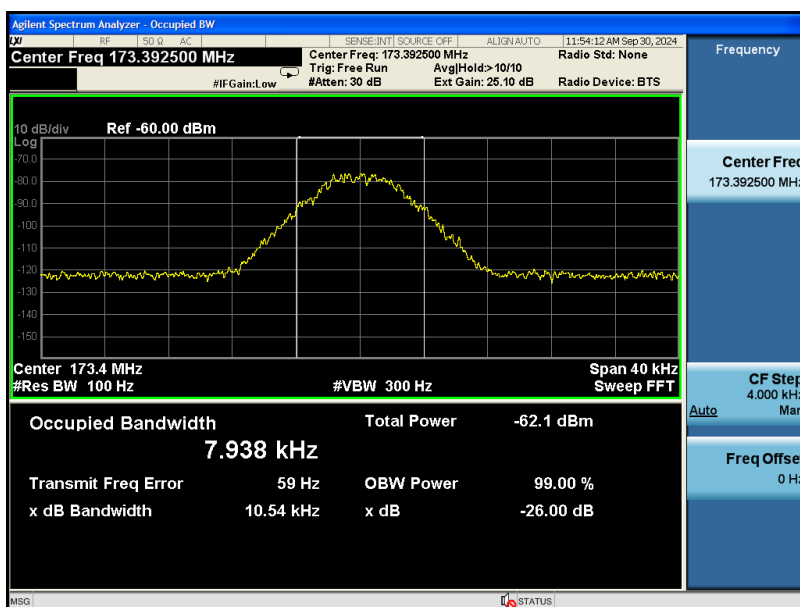


### 99% OBW

#### DL\_C4FM\_HCH\_Input\_Pre-AGC



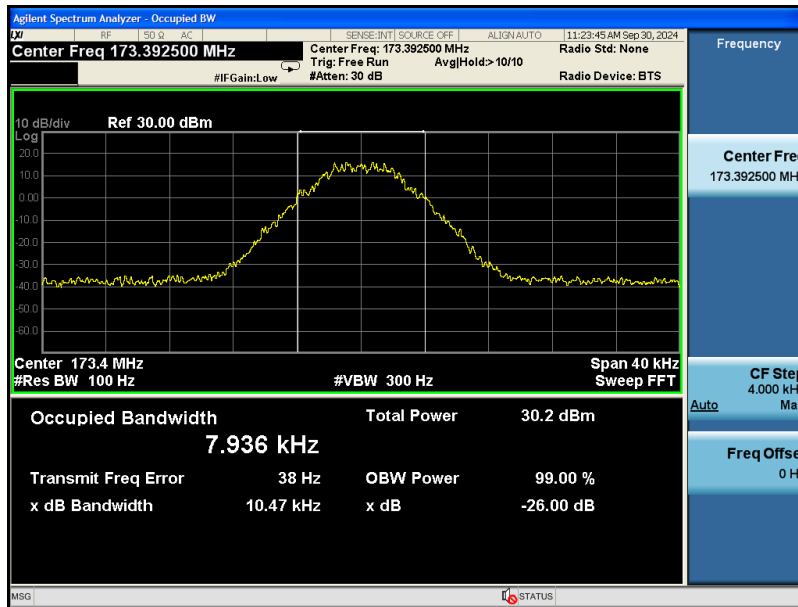
#### DL\_C4FM\_HCH\_Input\_3dB above AGC



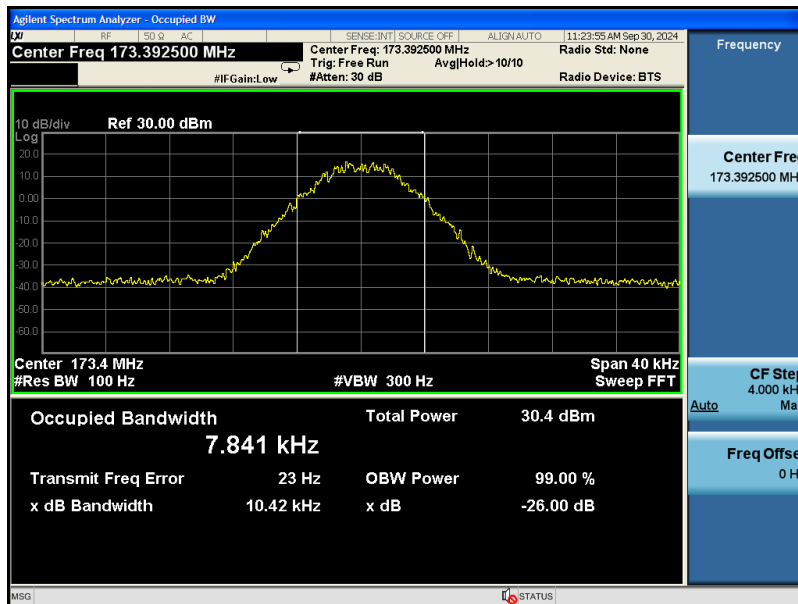


### 99% OBW

#### DL\_C4FM\_HCH\_Output\_Pre-AGC

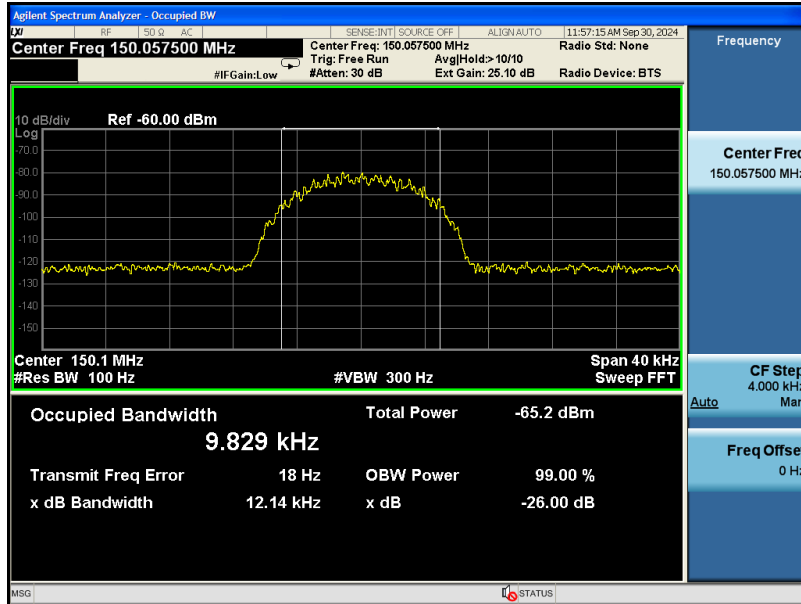


#### DL\_C4FM\_HCH\_Output\_3dB above AGC

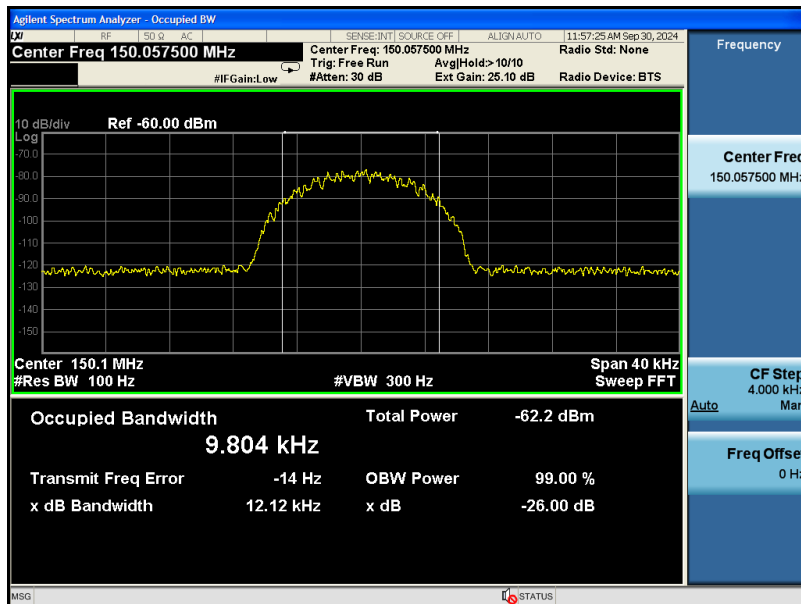


### 99% OBW

#### DL\_H-DQPSK\_LCH\_Input\_Pre-AGC



#### DL\_H-DQPSK\_LCH\_Input\_3dB above AGC

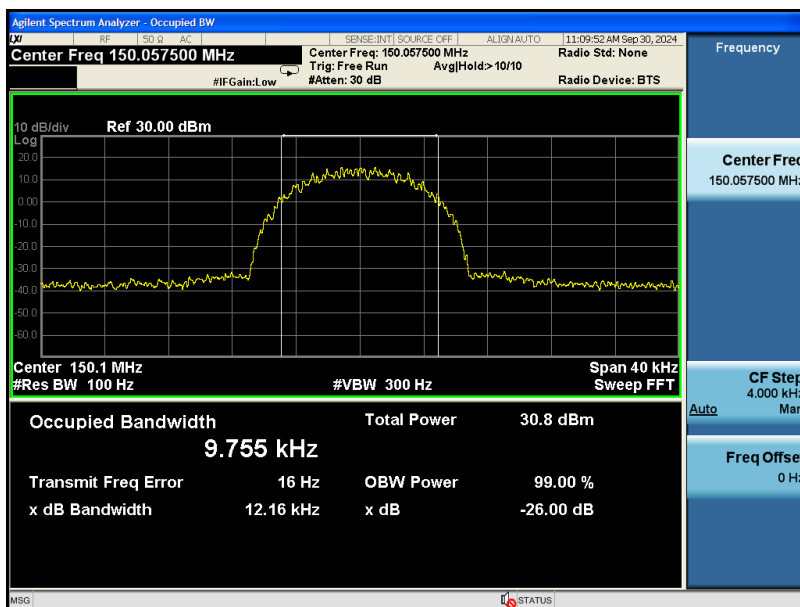


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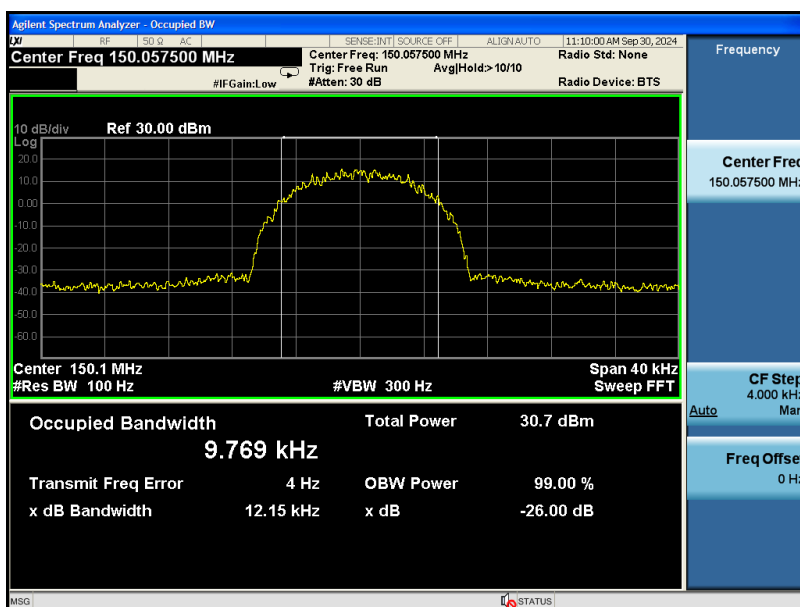
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### 99% OBW

#### DL\_H-DQPSK\_LCH\_Output\_Pre-AGC

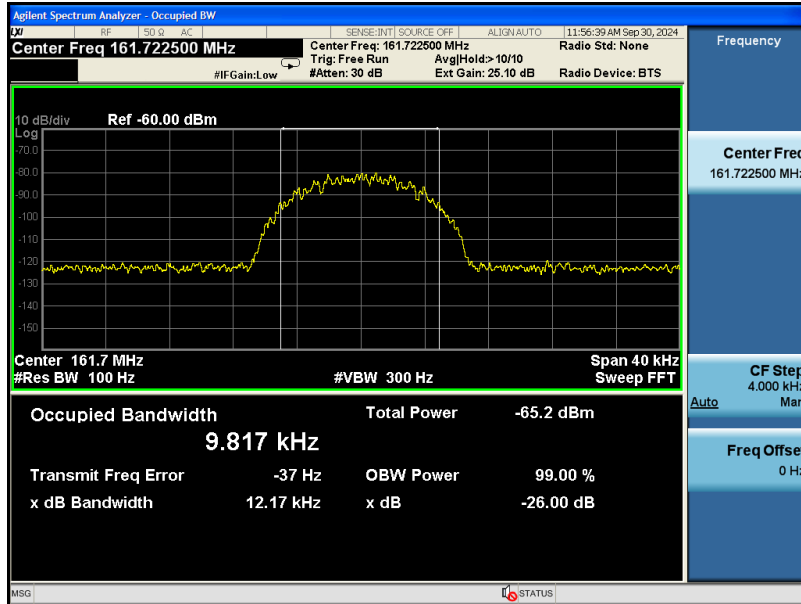


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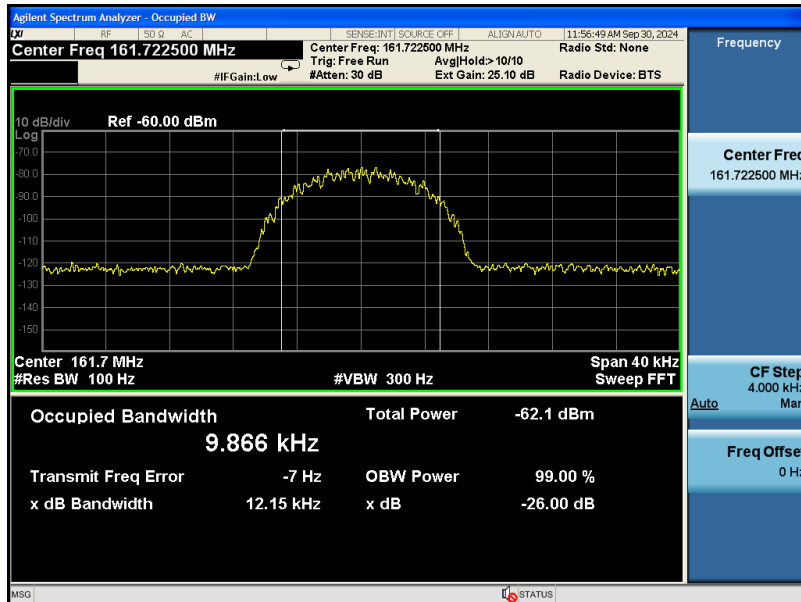


### 99% OBW

#### DL\_H-DQPSK\_MCH\_Input\_Pre-AGC

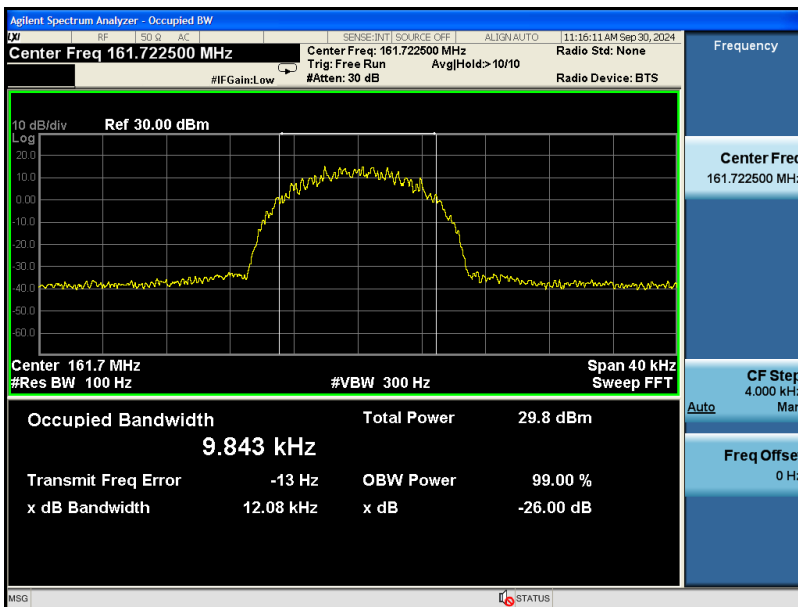


#### DL\_H-DQPSK\_MCH\_Input\_3dB above AGC

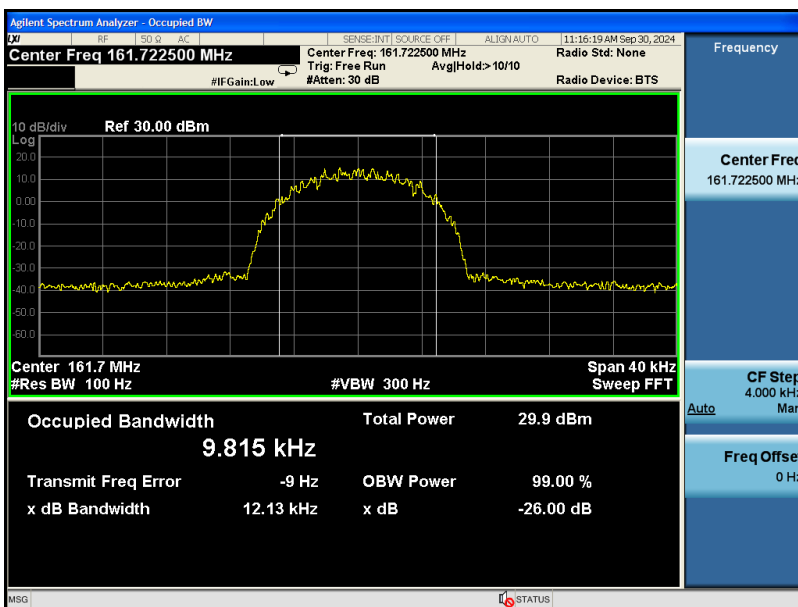


### 99% OBW

#### DL\_H-DQPSK\_MCH\_Output\_Pre-AGC



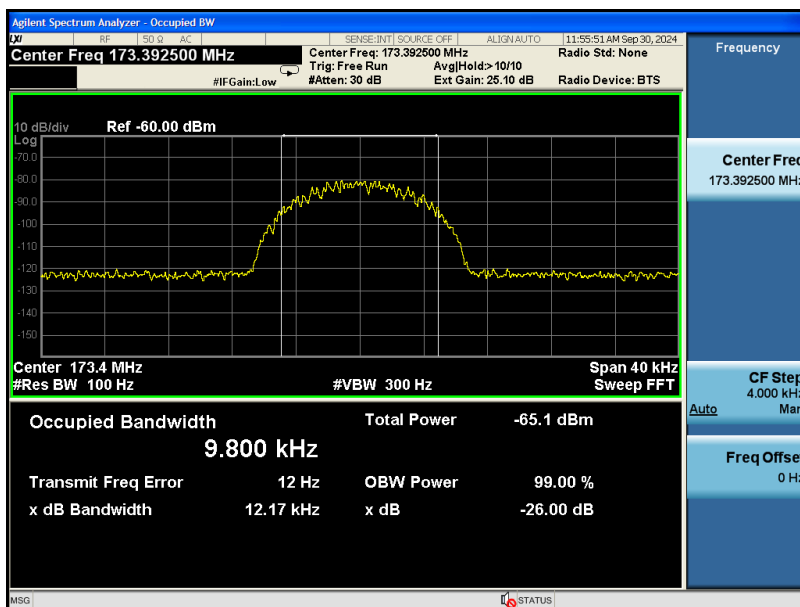
#### DL\_H-DQPSK\_MCH\_Output\_3dB above AGC



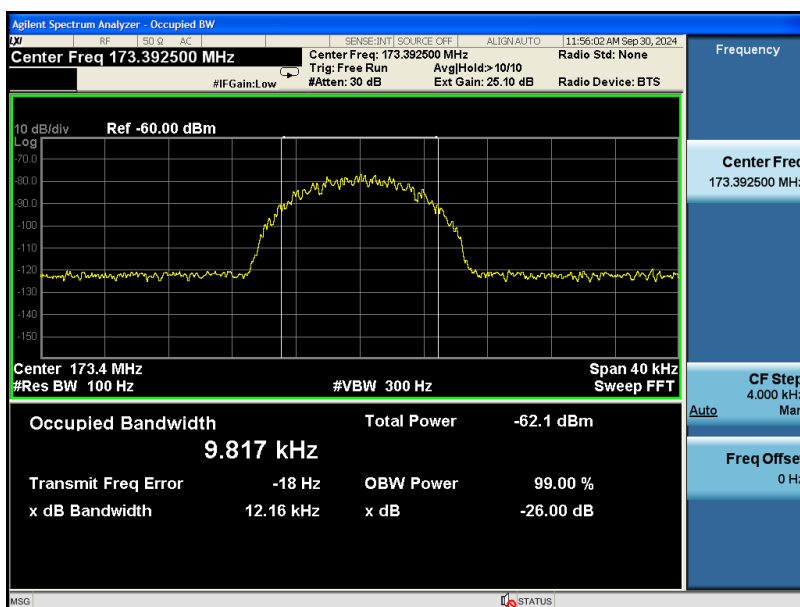


### 99% OBW

#### DL\_H-DQPSK\_HCH\_Input\_Pre-AGC

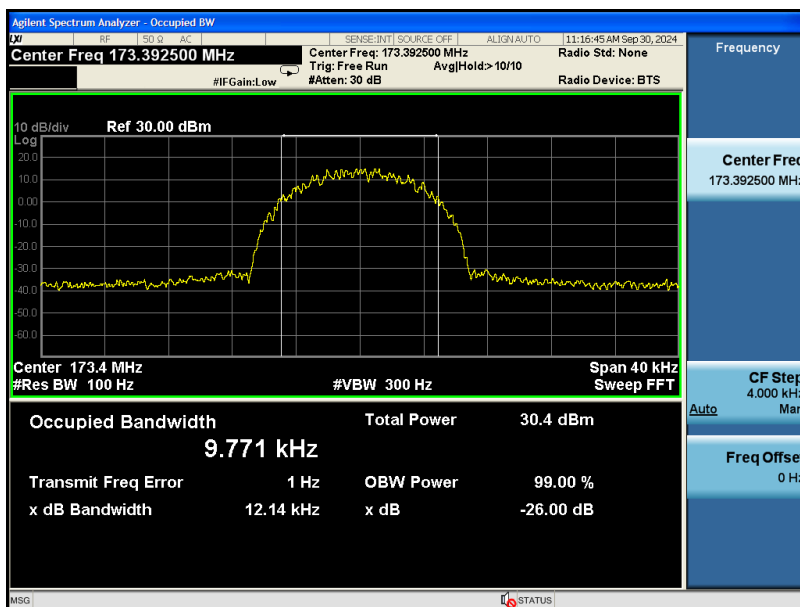


#### DL\_H-DQPSK\_HCH\_Input\_3dB above AGC

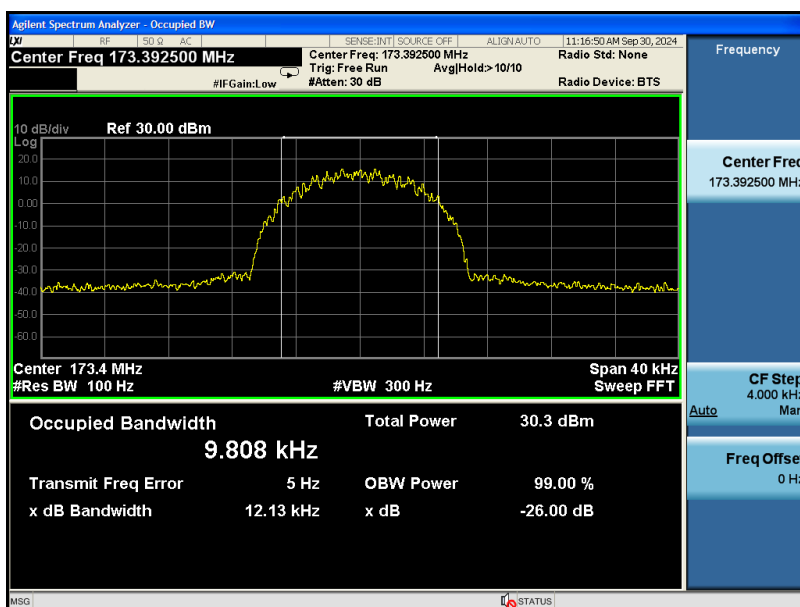


### 99% OBW

#### DL\_H-DQPSK\_HCH\_Output\_Pre-AGC

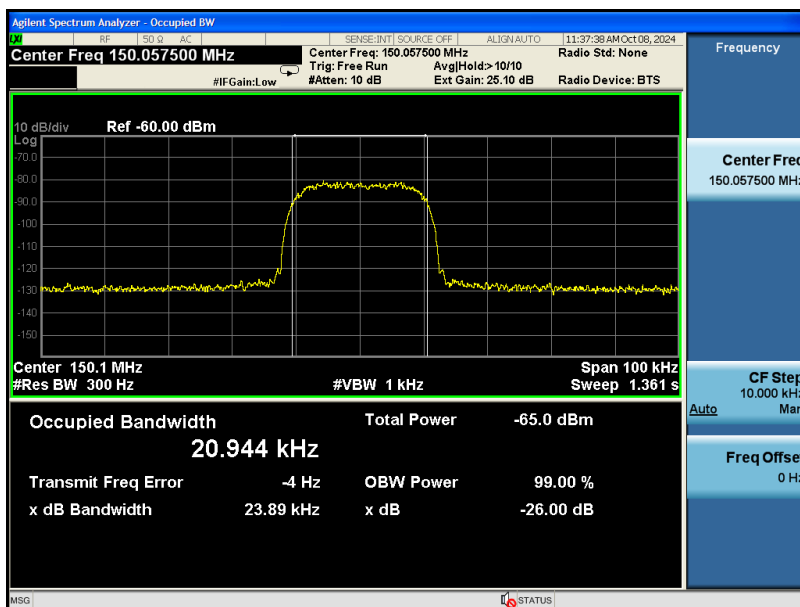


#### DL\_H-DQPSK\_HCH\_Output\_3dB above AGC

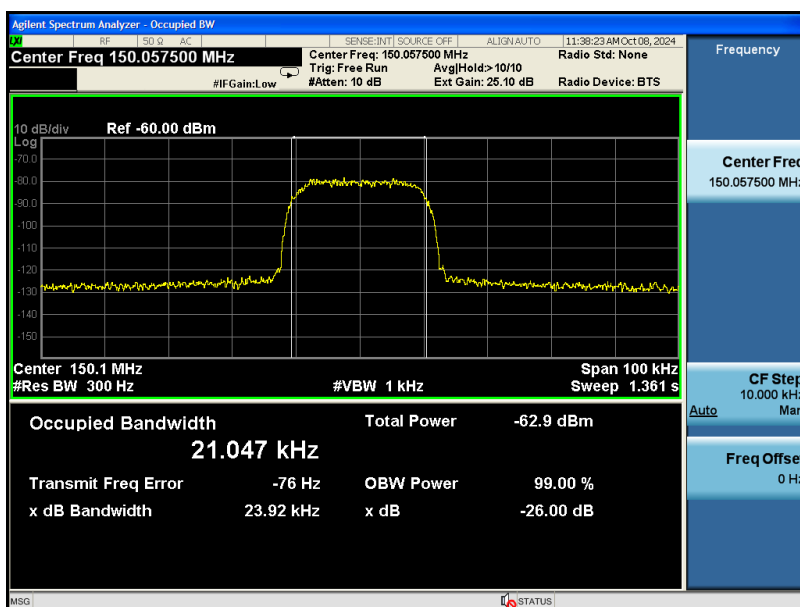


### 99% OBW

#### DL\_TETRA\_LCH\_Input\_Pre-AGC

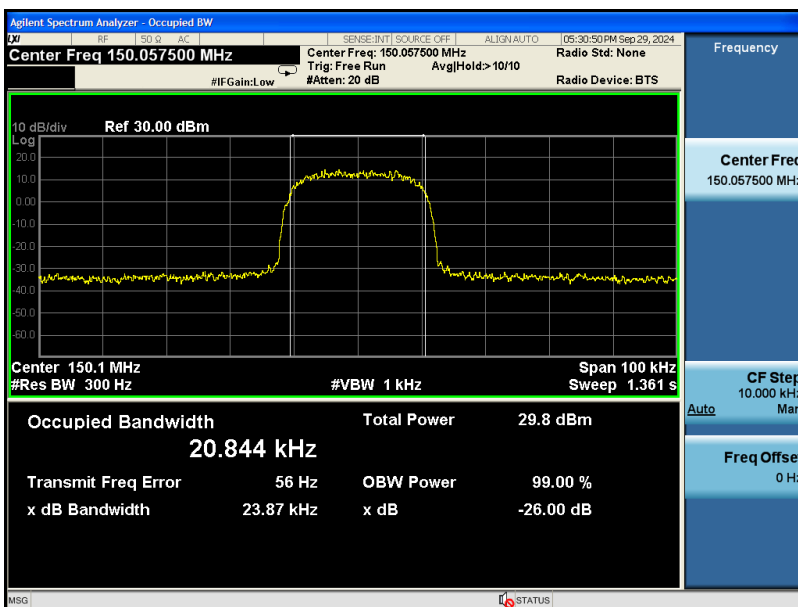


#### DL\_TETRA\_LCH\_Input\_3dB above AGC

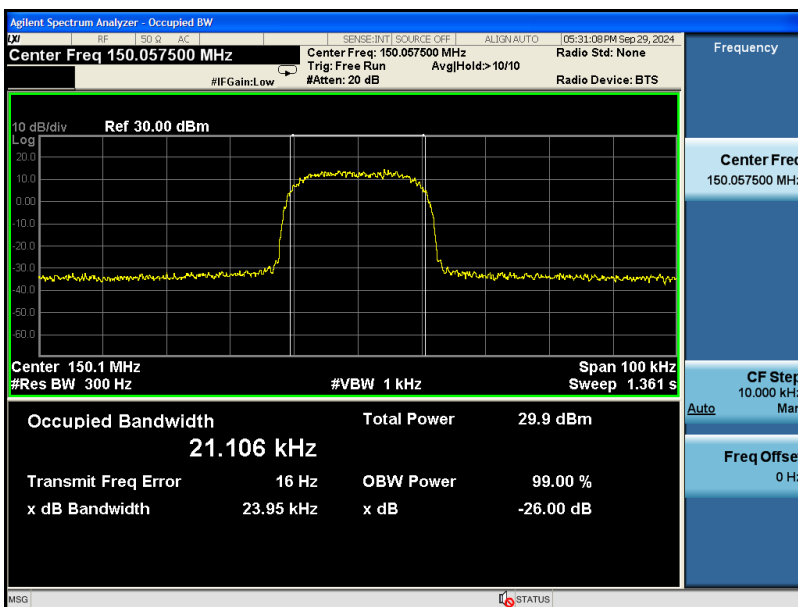


### 99% OBW

#### DL\_TETRA\_LCH\_Output\_Pre-AGC

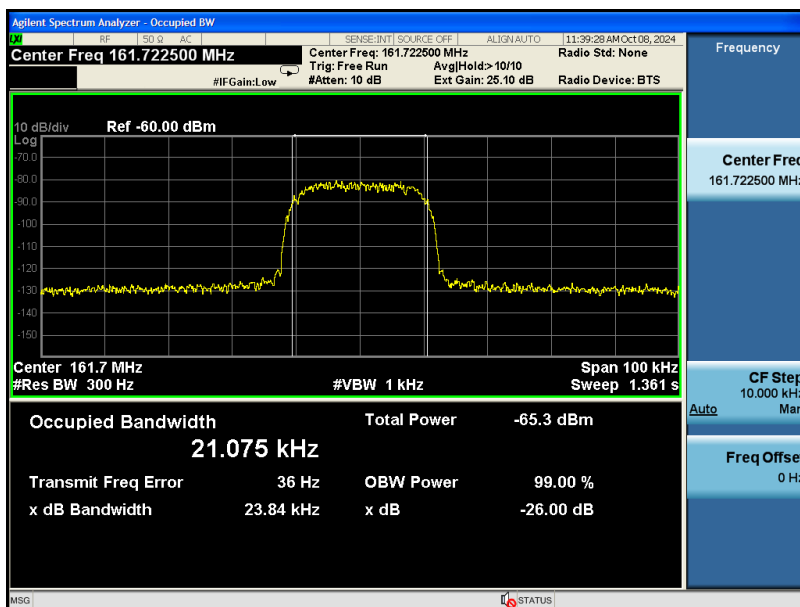


#### DL\_TETRA\_LCH\_Output\_3dB above AGC

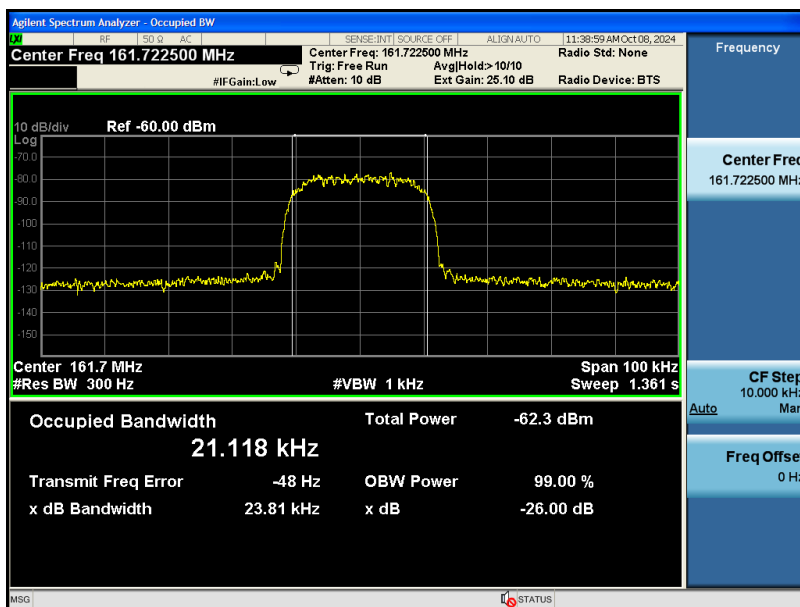


### 99% OBW

#### DL\_TETRA\_MCH\_Input\_Pre-AGC



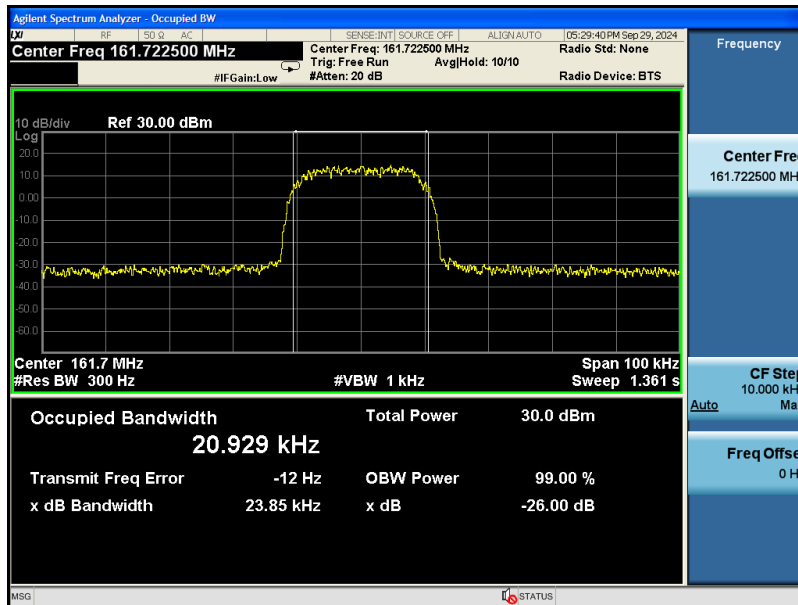
#### DL\_TETRA\_MCH\_Input\_3dB above AGC



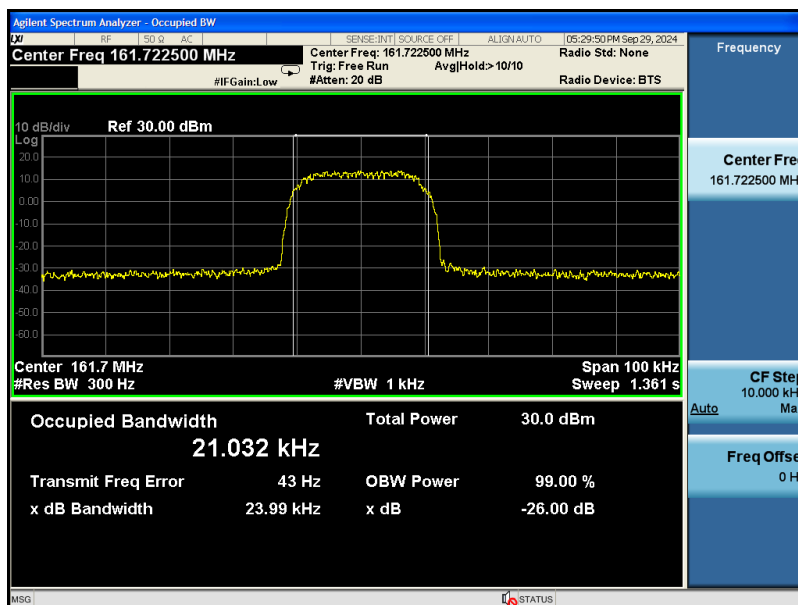


### 99% OBW

#### DL\_TETRA\_MCH\_Output\_Pre-AGC

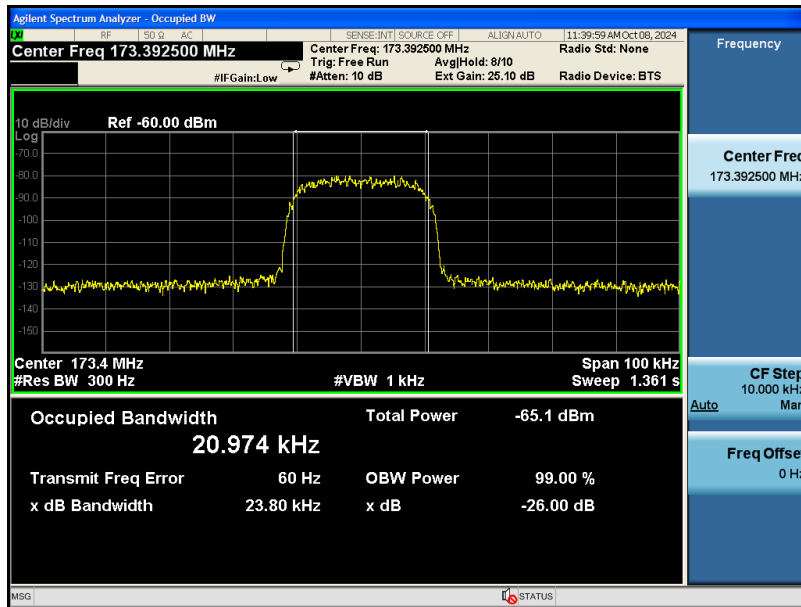


#### DL\_TETRA\_MCH\_Output\_3dB above AGC

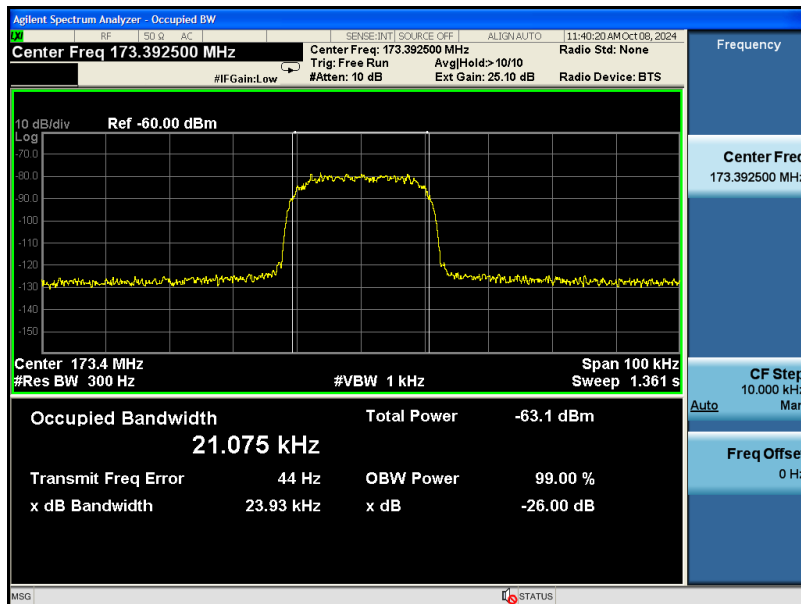


### 99% OBW

#### DL\_TETRA\_HCH\_Input\_Pre-AGC

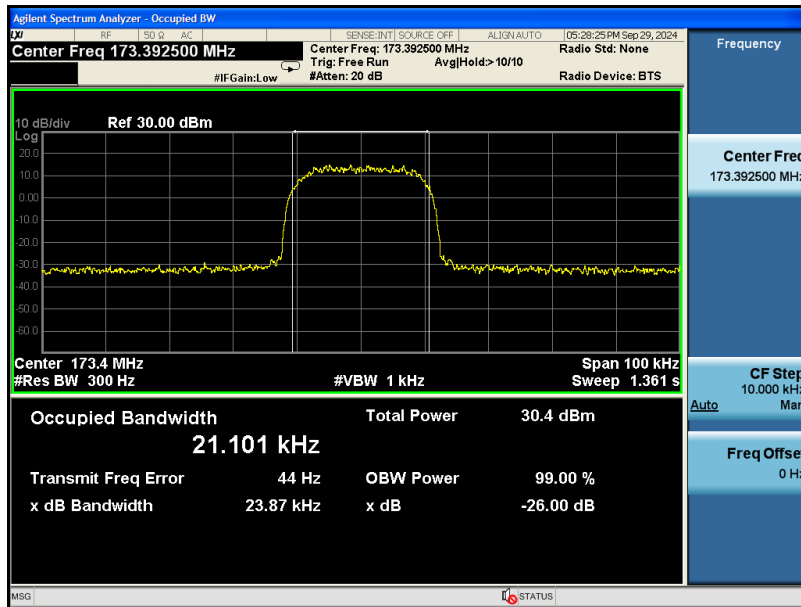


#### DL\_TETRA\_HCH\_Input\_3dB above AGC

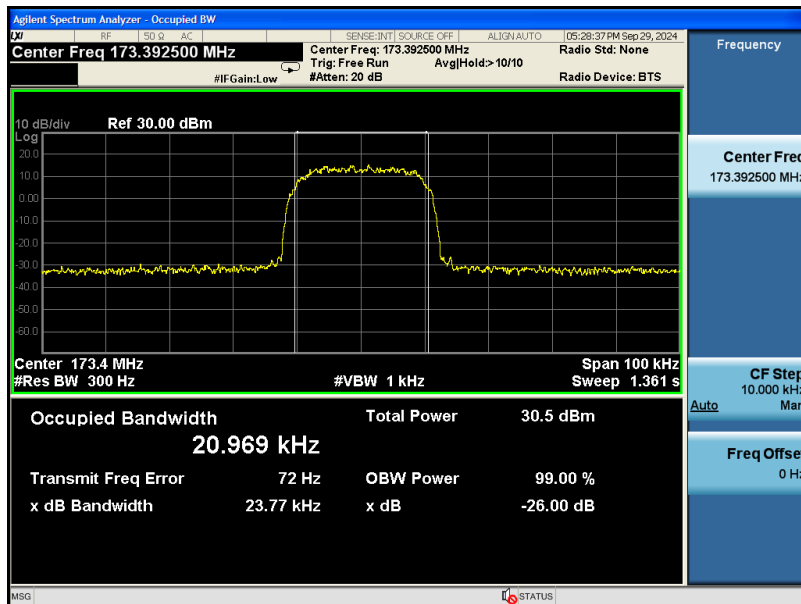


### 99% OBW

#### DL\_TETRA\_HCH\_Output\_Pre-AGC

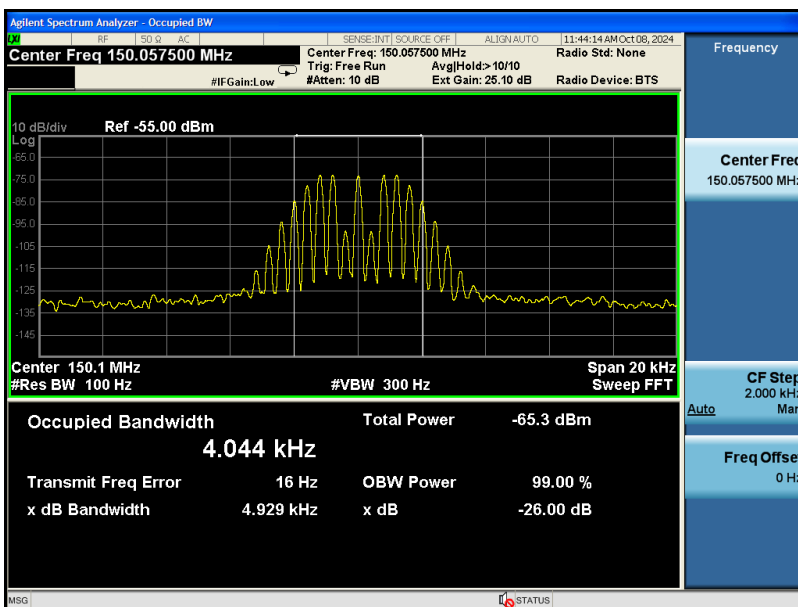


#### DL\_TETRA\_HCH\_Output\_3dB above AGC

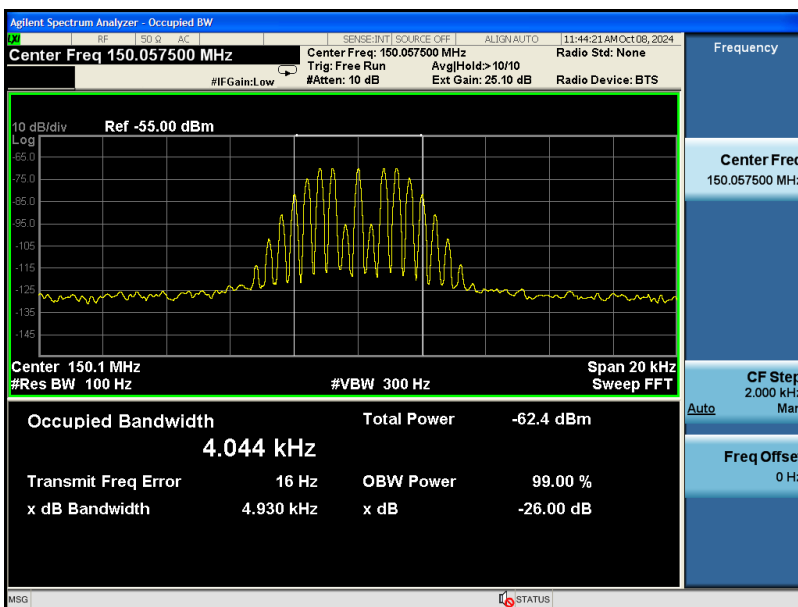


### 99% OBW

### UL\_FM\_LCH\_Input\_Pre-AGC

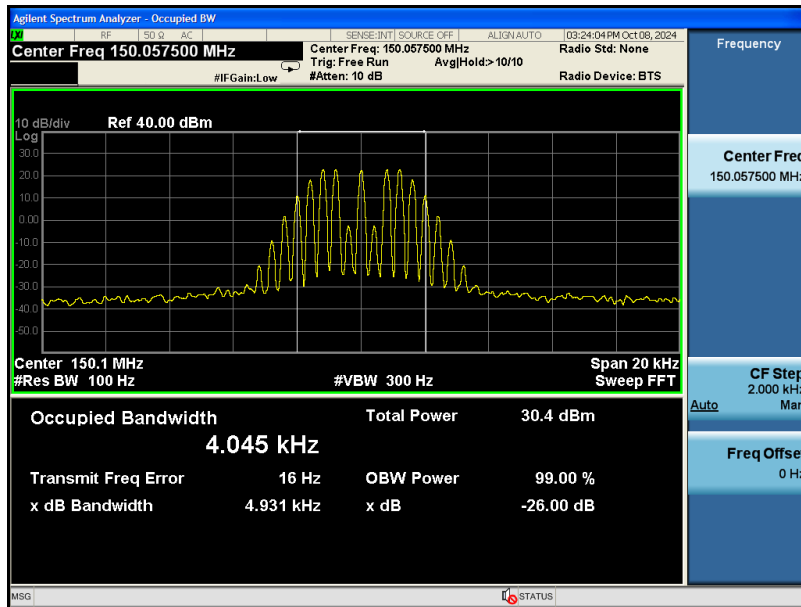


### UL\_FM\_LCH\_Input\_3dB above AGC

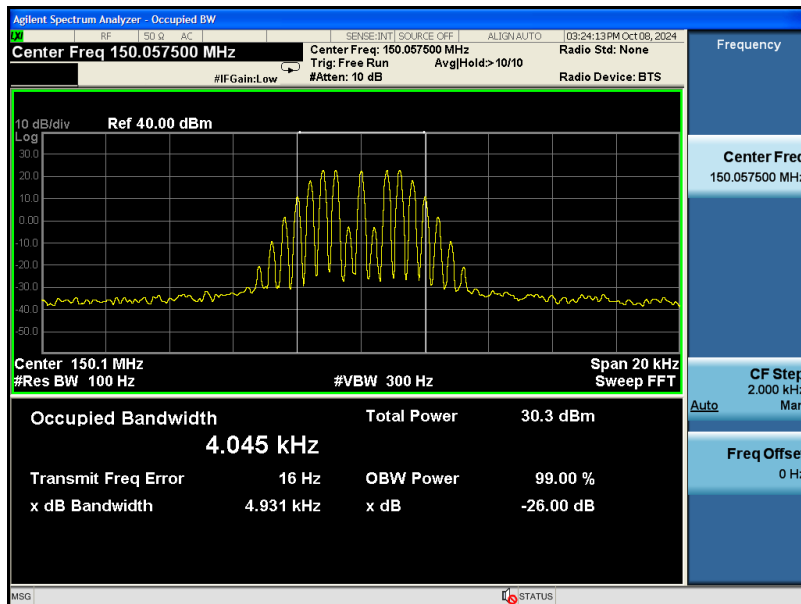


### 99% OBW

#### UL\_FM\_LCH\_Output\_Pre-AGC



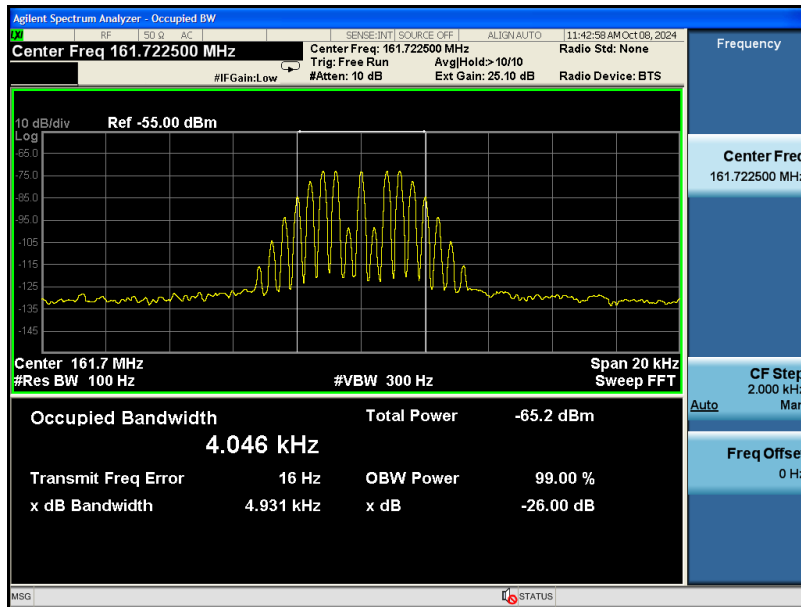
#### UL\_FM\_LCH\_Output\_3dB above AGC



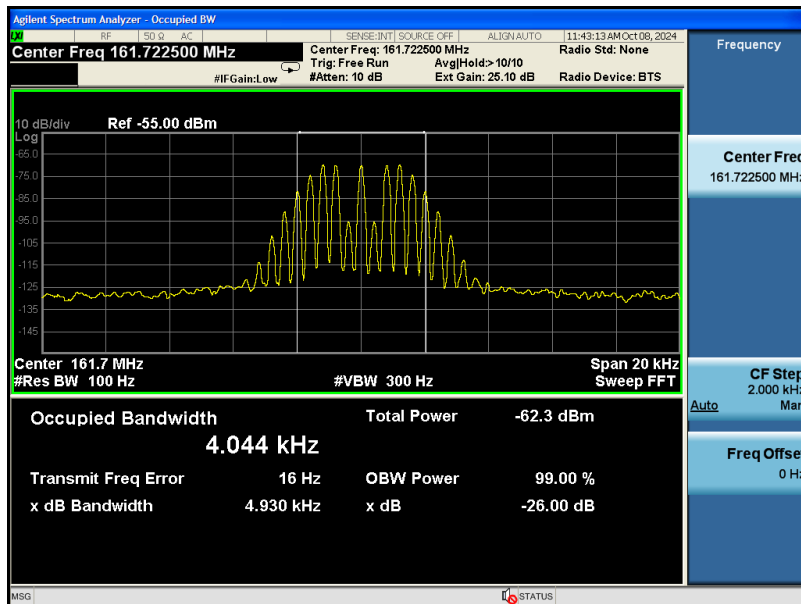


### 99% OBW

#### UL\_FM\_MCH\_Input\_Pre-AGC

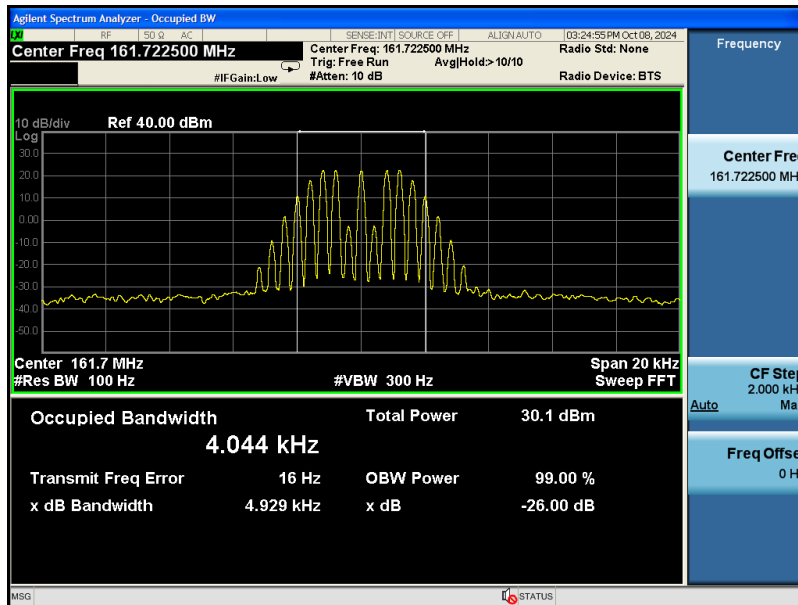


#### UL\_FM\_MCH\_Input\_3dB above AGC

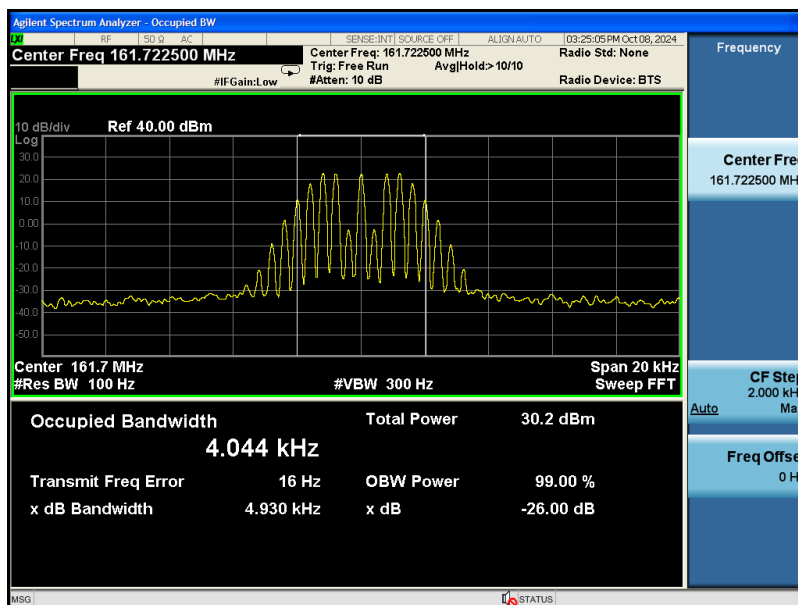


### 99% OBW

#### UL\_FM\_MCH\_Output\_Pre-AGC

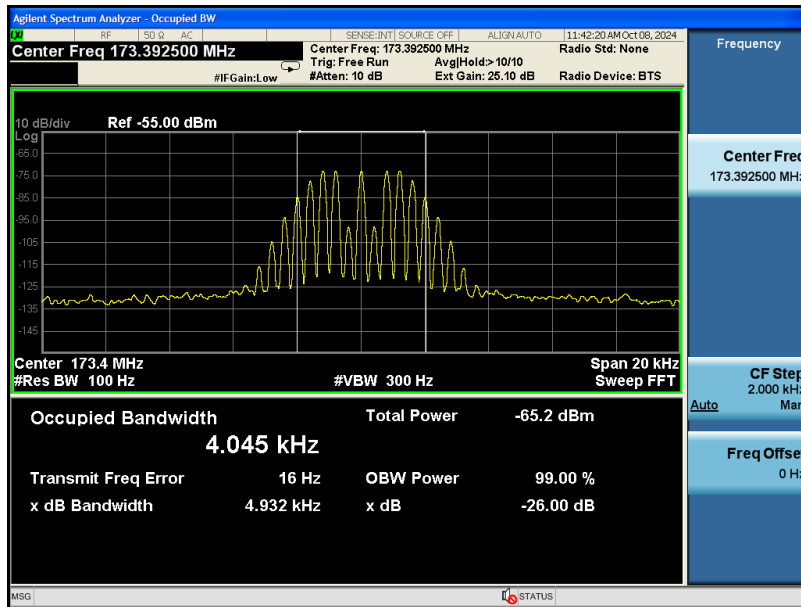


#### UL\_FM\_MCH\_Output\_3dB above AGC

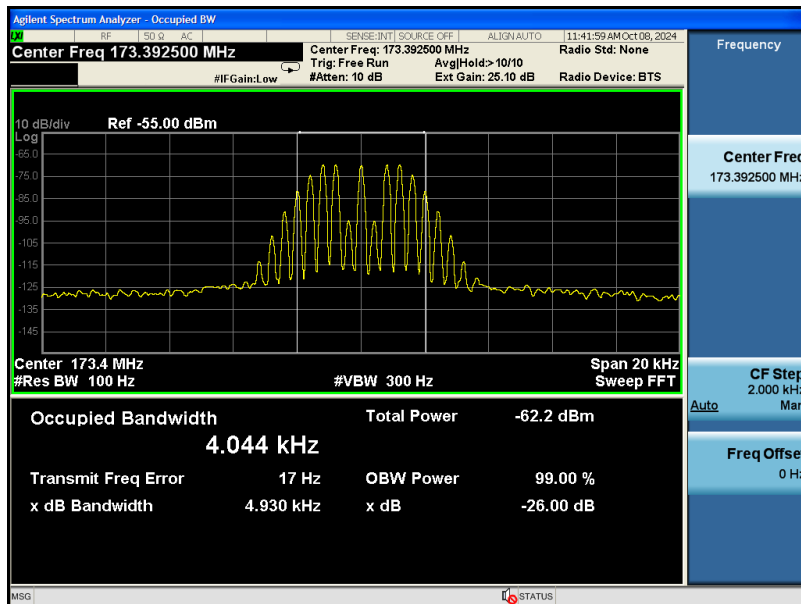


### 99% OBW

#### UL\_FM\_HCH\_Input\_Pre-AGC

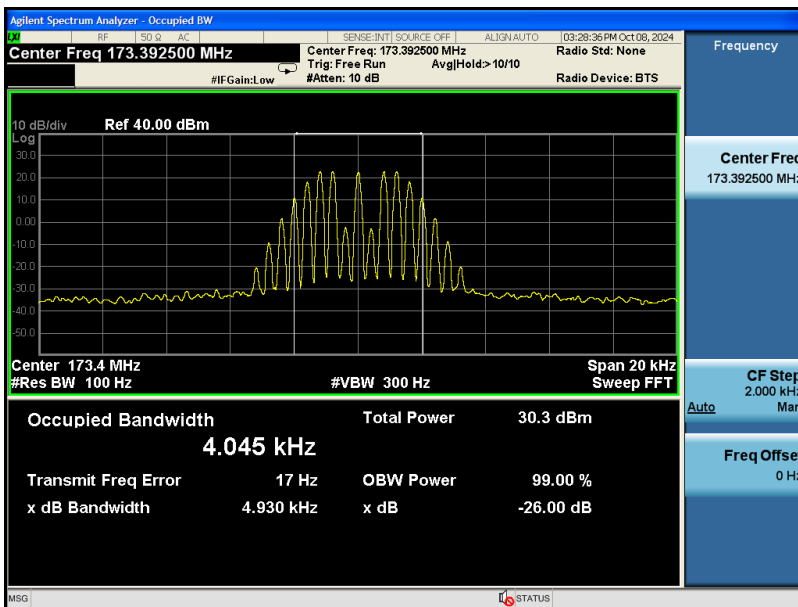


#### UL\_FM\_HCH\_Input\_3dB above AGC

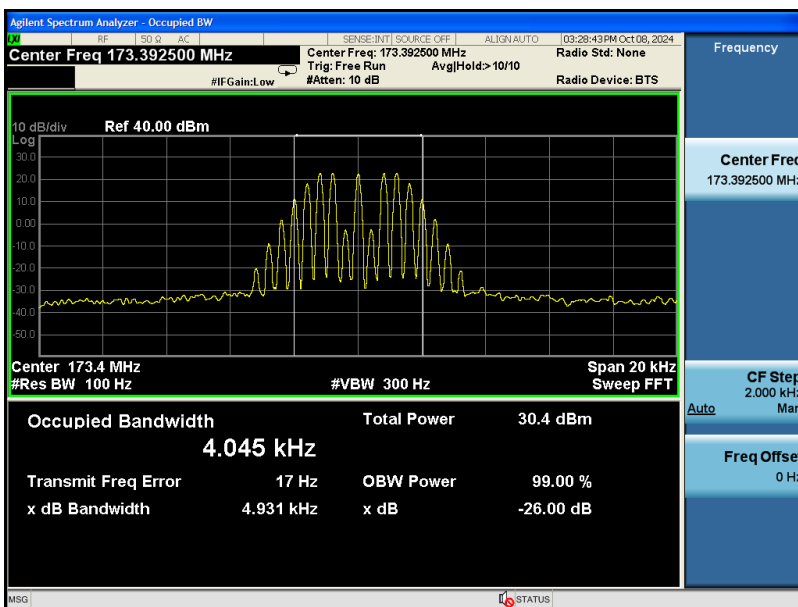


### 99% OBW

#### UL\_FM\_HCH\_Output\_Pre-AGC

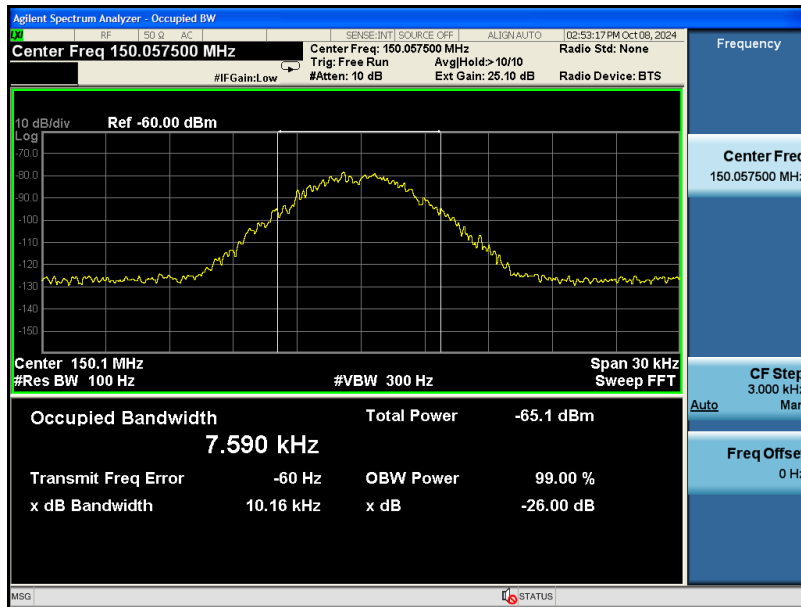


#### UL\_FM\_HCH\_Output\_3dB above AGC

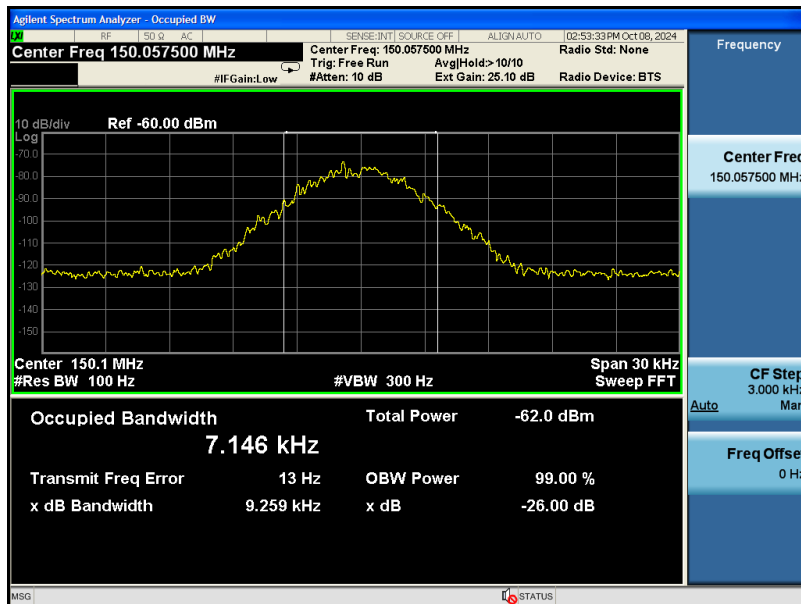


### 99% OBW

#### UL\_DMR\_LCH\_Input\_Pre-AGC



#### UL\_DMR\_LCH\_Input\_3dB above AGC



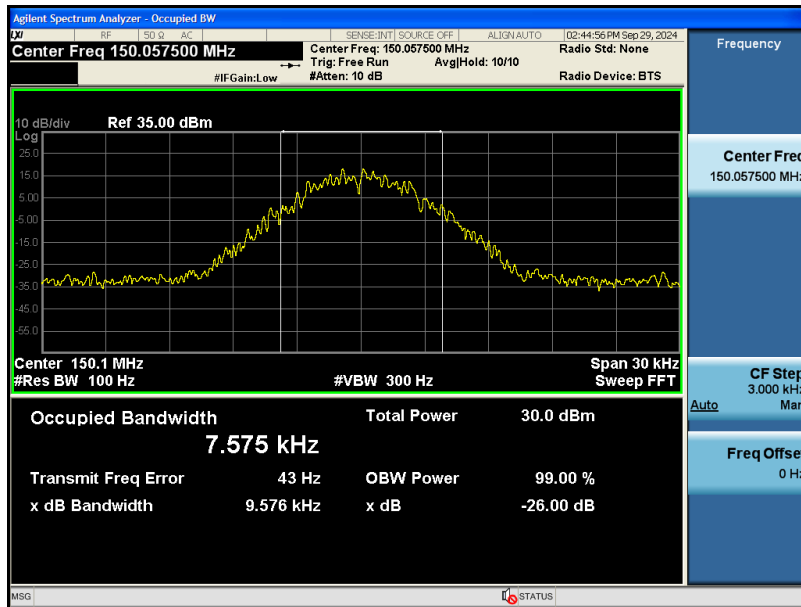
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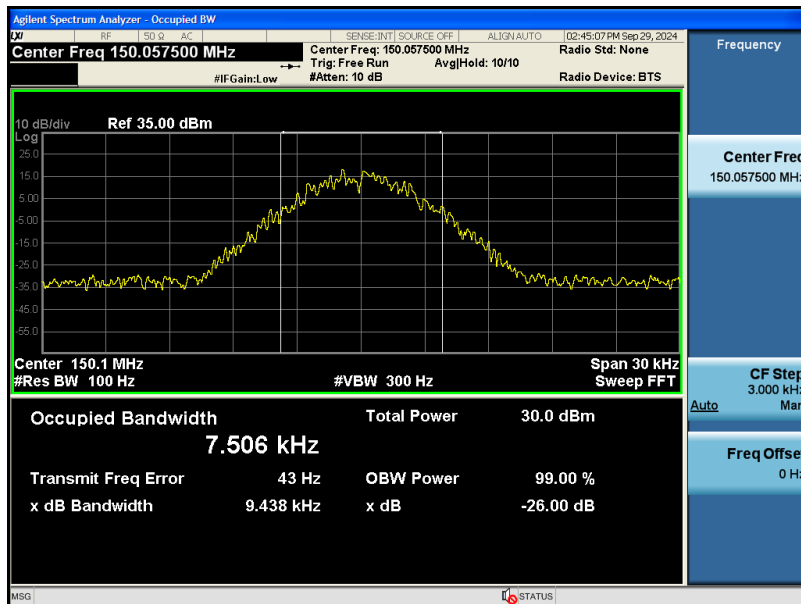


### 99% OBW

#### UL\_DMR\_LCH\_Output\_Pre-AGC

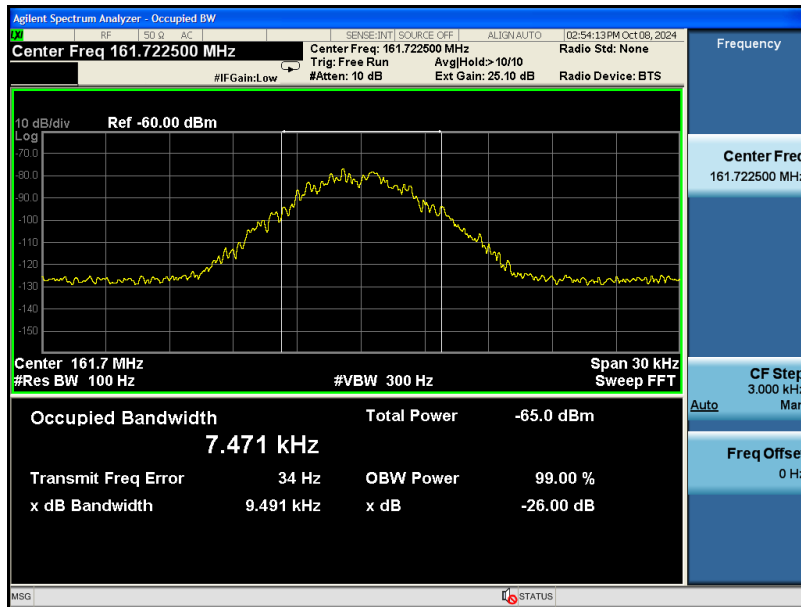


#### UL\_DMR\_LCH\_Output\_3dB above AGC

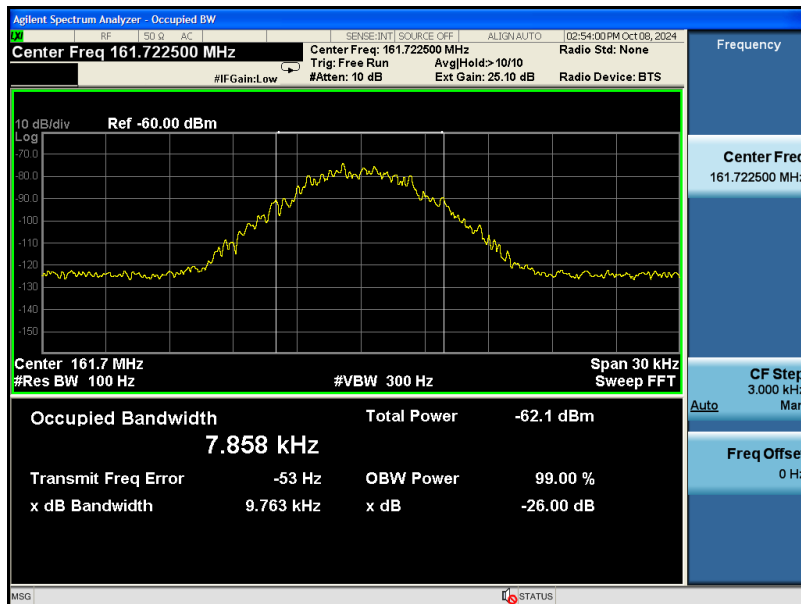


### 99% OBW

#### UL\_DMR\_MCH\_Input\_Pre-AGC

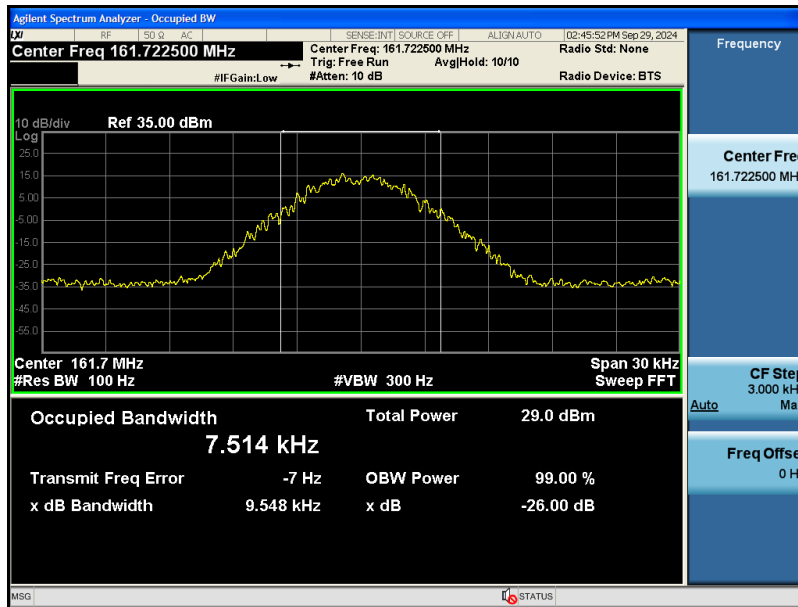


#### UL\_DMR\_MCH\_Input\_3dB above AGC

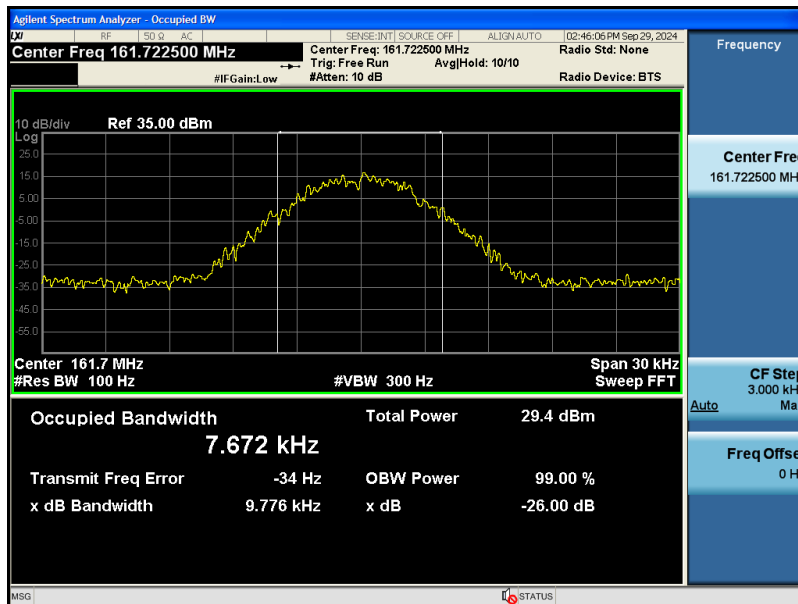


### 99% OBW

#### UL\_DMR\_MCH\_Output\_Pre-AGC

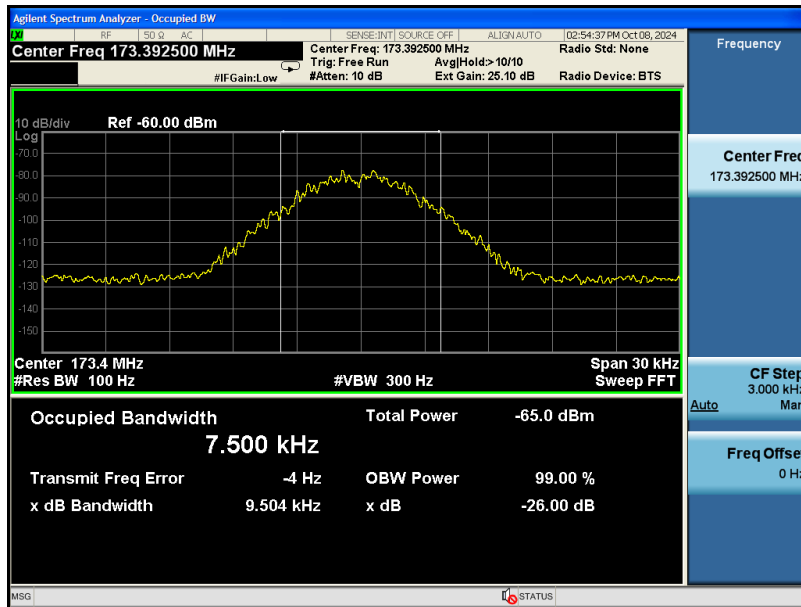


#### UL\_DMR\_MCH\_Output\_3dB above AGC

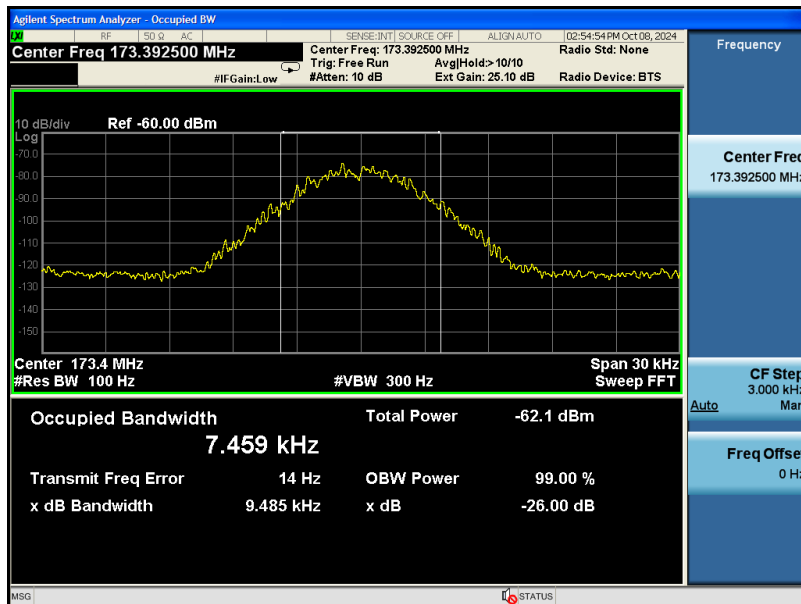


### 99% OBW

#### UL\_DMR\_HCH\_Input\_Pre-AGC



#### UL\_DMR\_HCH\_Input\_3dB above AGC

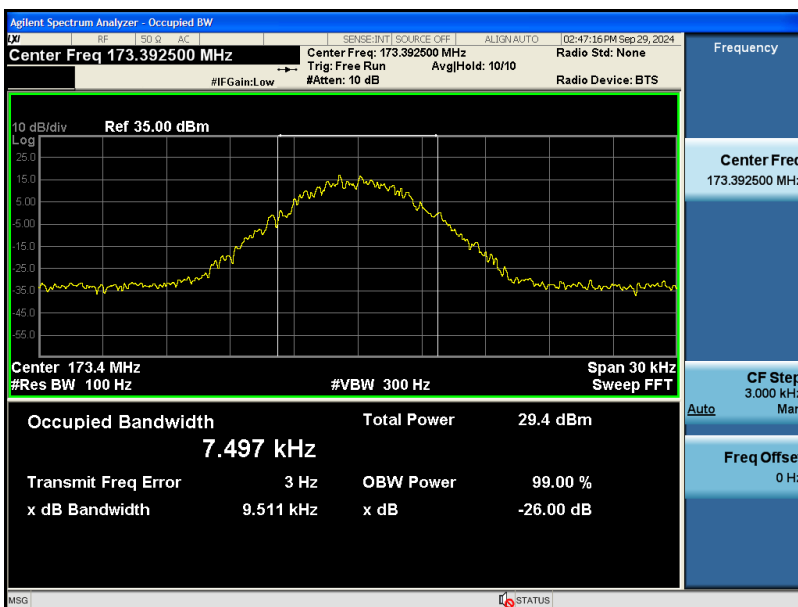


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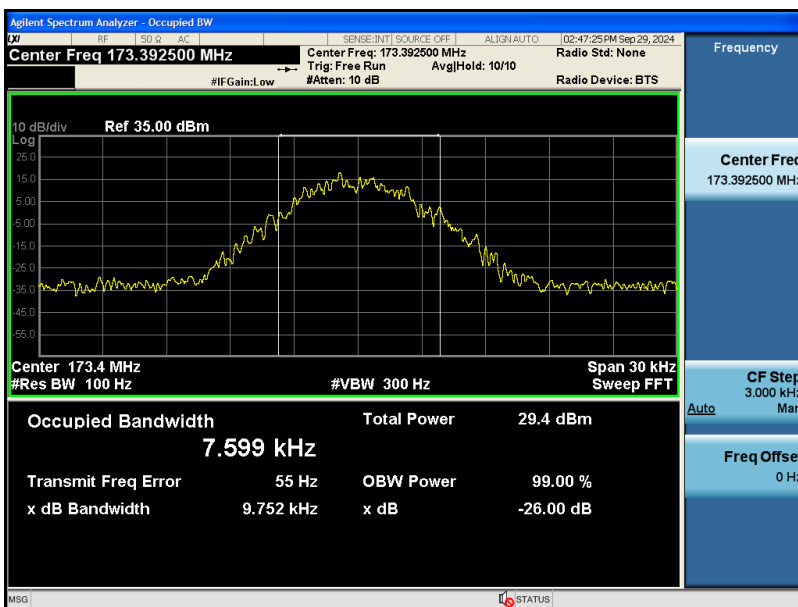
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### 99% OBW

#### UL\_DMR\_HCH\_Output\_Pre-AGC



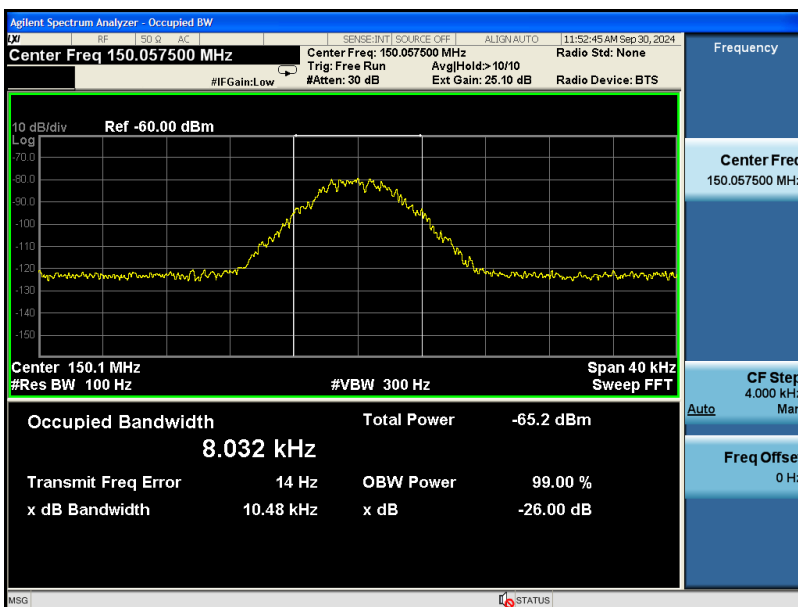
#### UL\_DMR\_HCH\_Output\_3dB above AGC



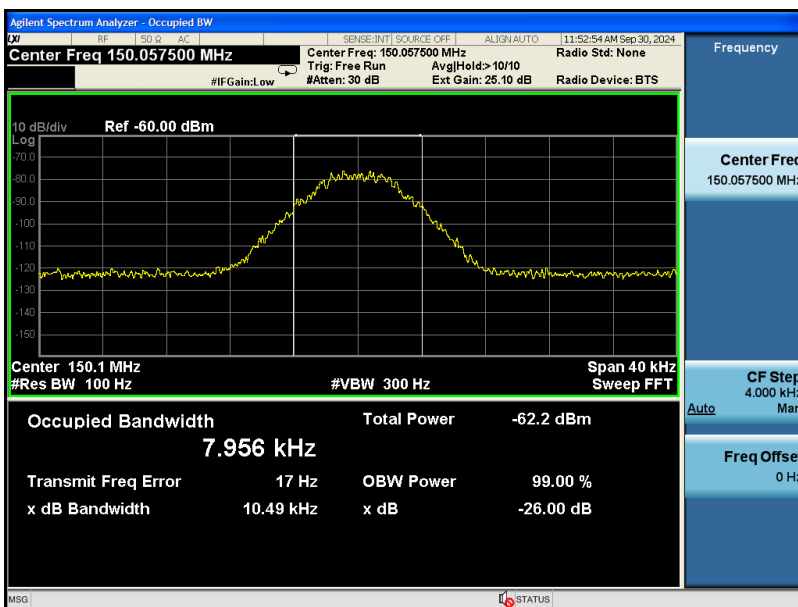


### 99% OBW

#### UL\_C4FM\_LCH\_Input\_Pre-AGC



#### UL\_C4FM\_LCH\_Input\_3dB above AGC

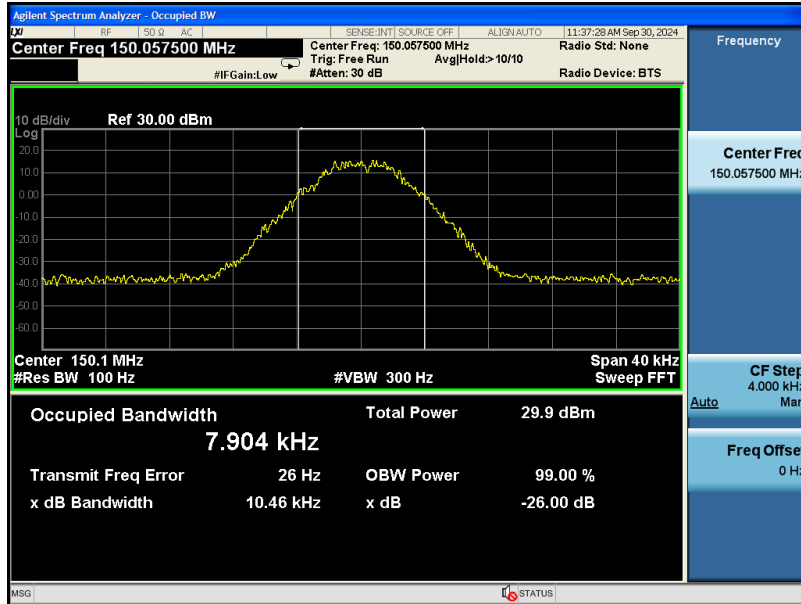


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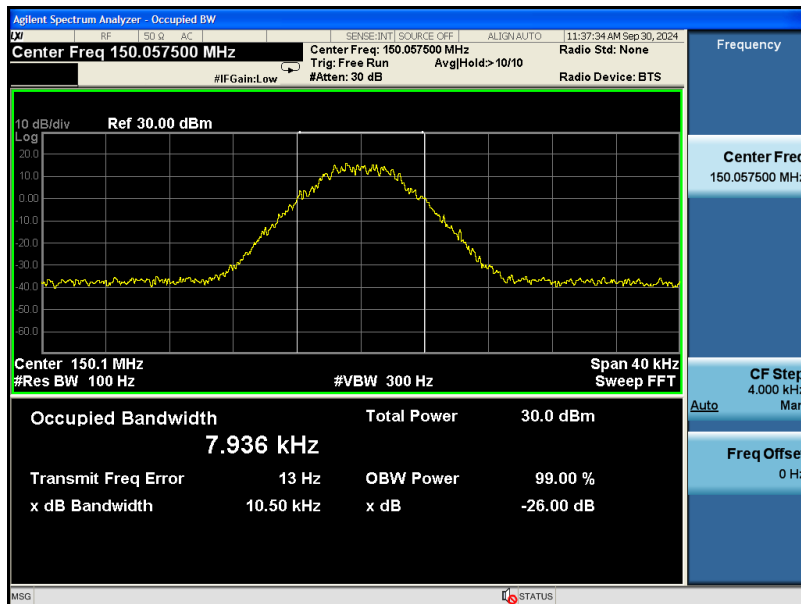
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### 99% OBW

#### UL\_C4FM\_LCH\_Output\_Pre-AGC

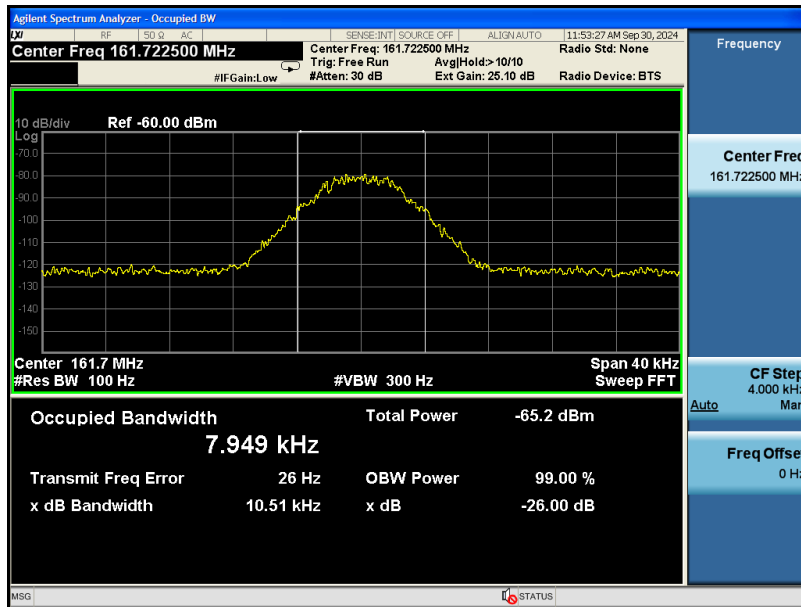


#### UL\_C4FM\_LCH\_Output\_3dB above AGC

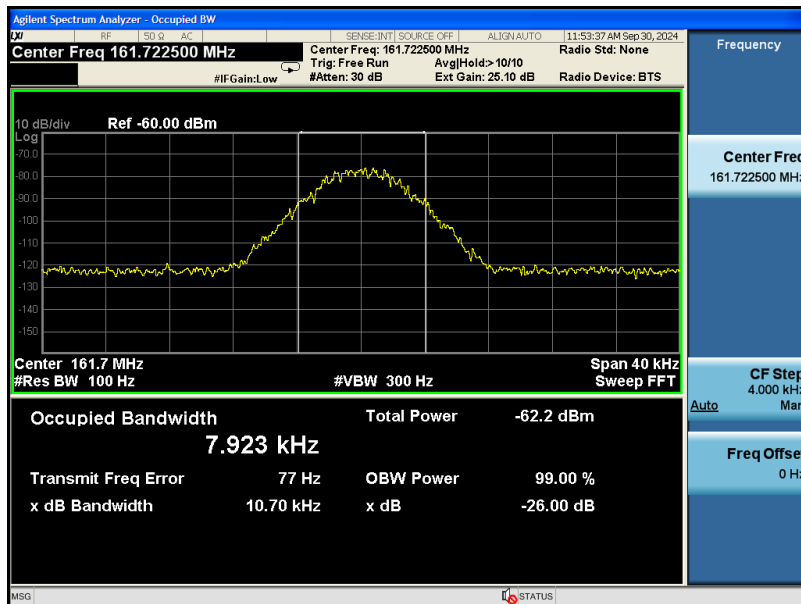


### 99% OBW

#### UL\_C4FM\_MCH\_Input\_Pre-AGC

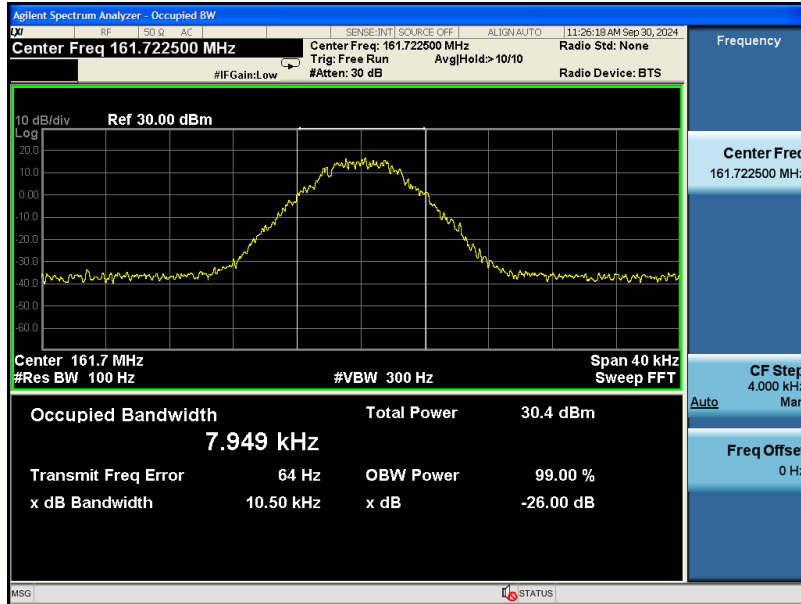


#### UL\_C4FM\_MCH\_Input\_3dB above AGC

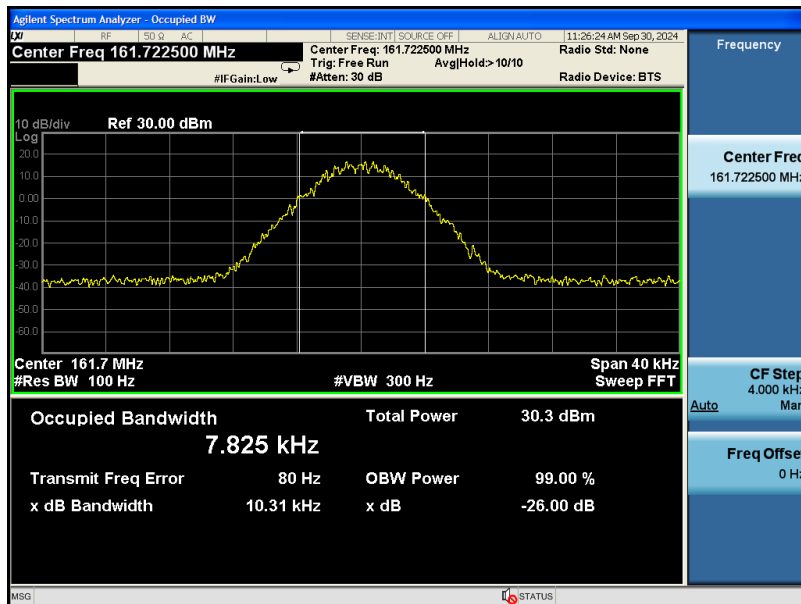


### 99% OBW

#### UL\_C4FM\_MCH\_Output\_Pre-AGC

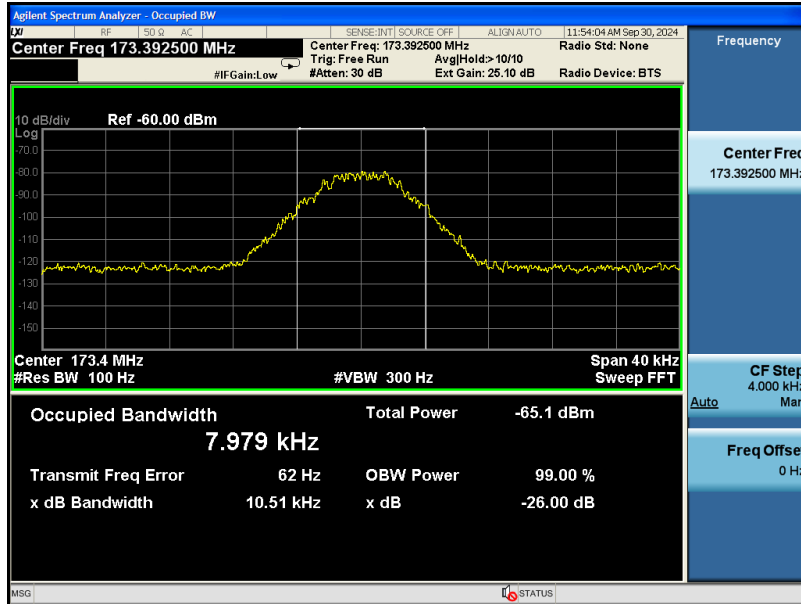


#### UL\_C4FM\_MCH\_Output\_3dB above AGC

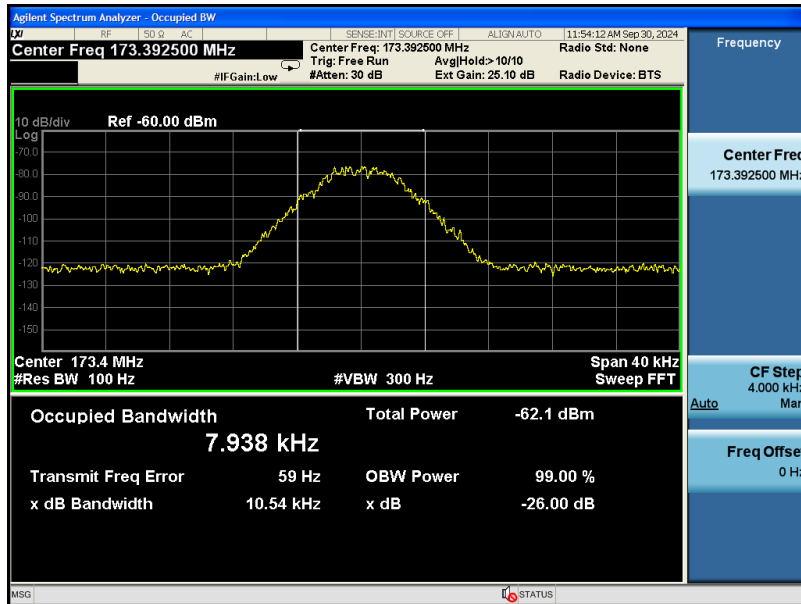


### 99% OBW

#### UL\_C4FM\_HCH\_Input\_Pre-AGC



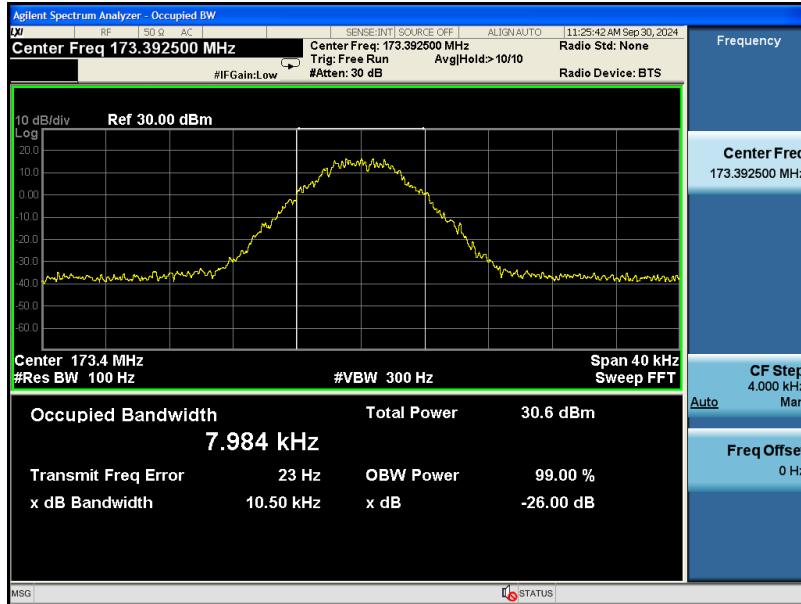
#### UL\_C4FM\_HCH\_Input\_3dB above AGC



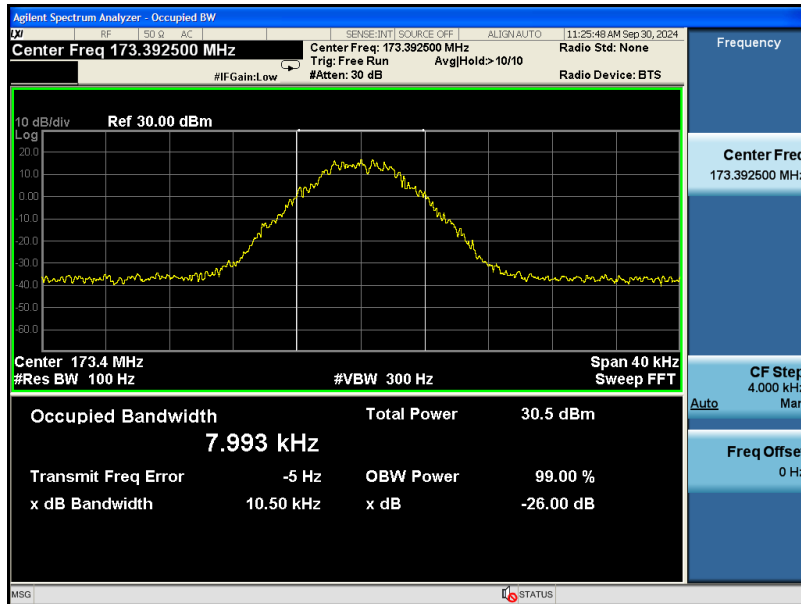


### 99% OBW

#### U\_C4FM\_HCH\_Output\_Pre-AGC

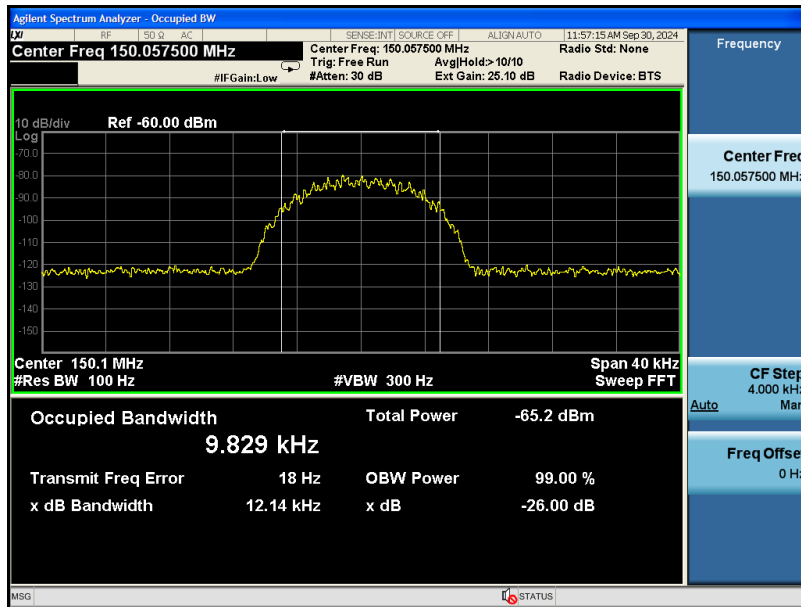


#### UL\_C4FM\_HCH\_Output\_3dB above AGC

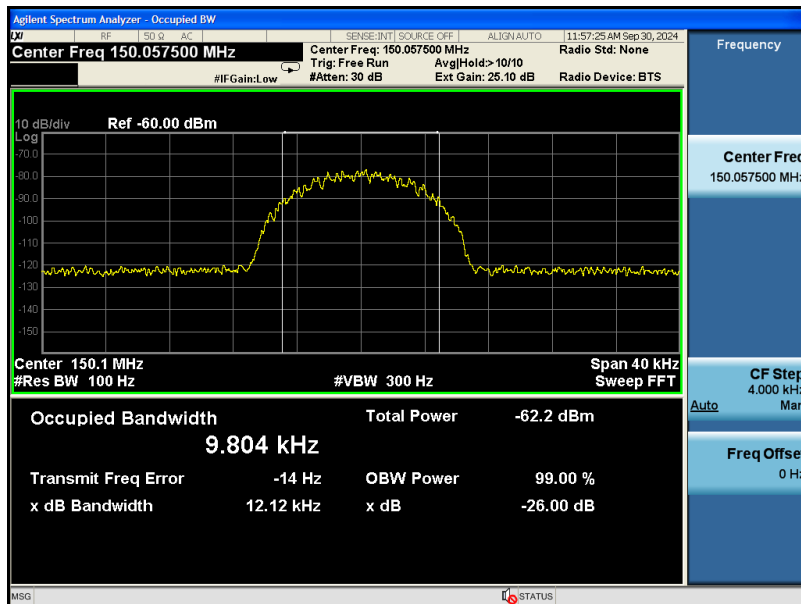


### 99% OBW

#### UL\_H-DQPSK\_LCH\_Input\_Pre-AGC



#### UL\_H-DQPSK\_LCH\_Input\_3dB above AGC

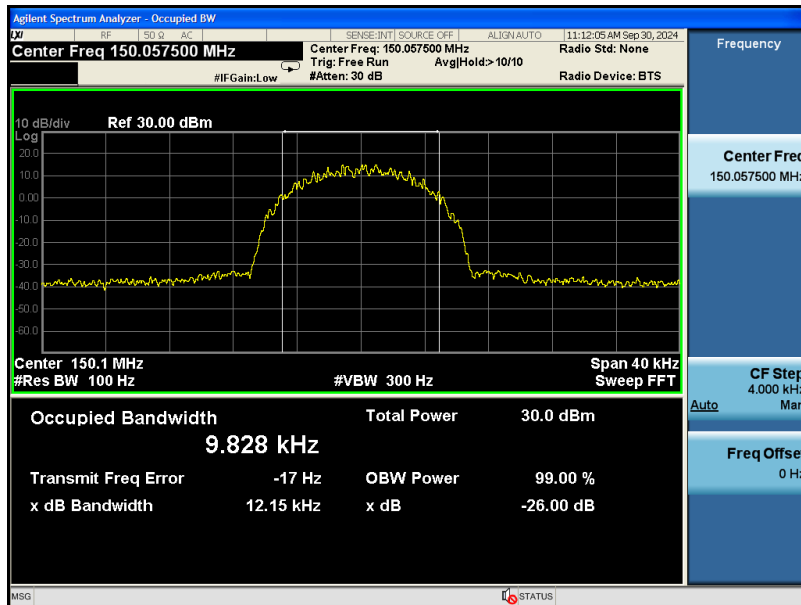


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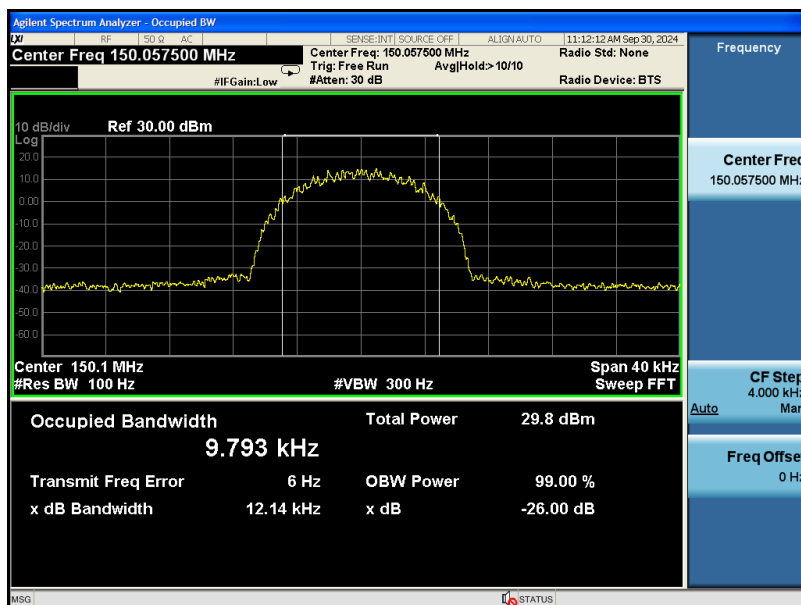
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### 99% OBW

#### UL\_H-DQPSK\_LCH\_Output\_Pre-AGC

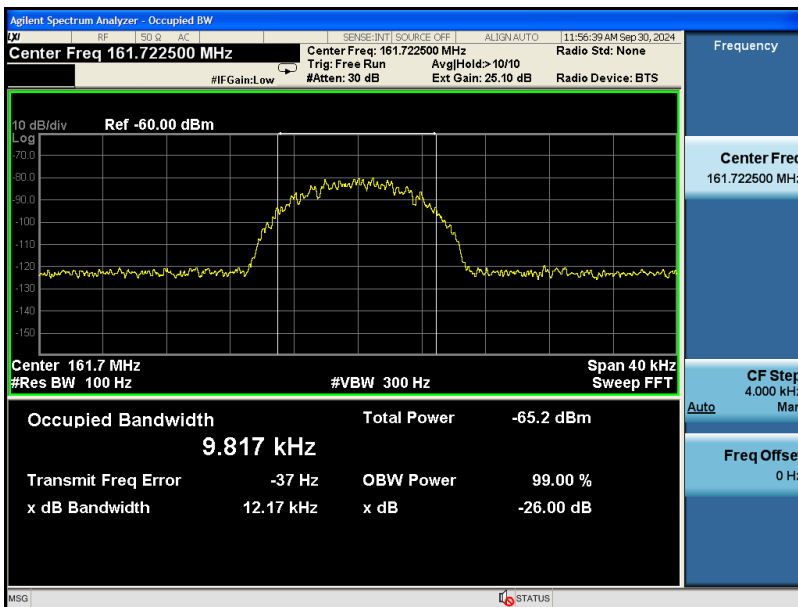


#### UL\_H-DQPSK\_LCH\_Output\_3dB above AGC

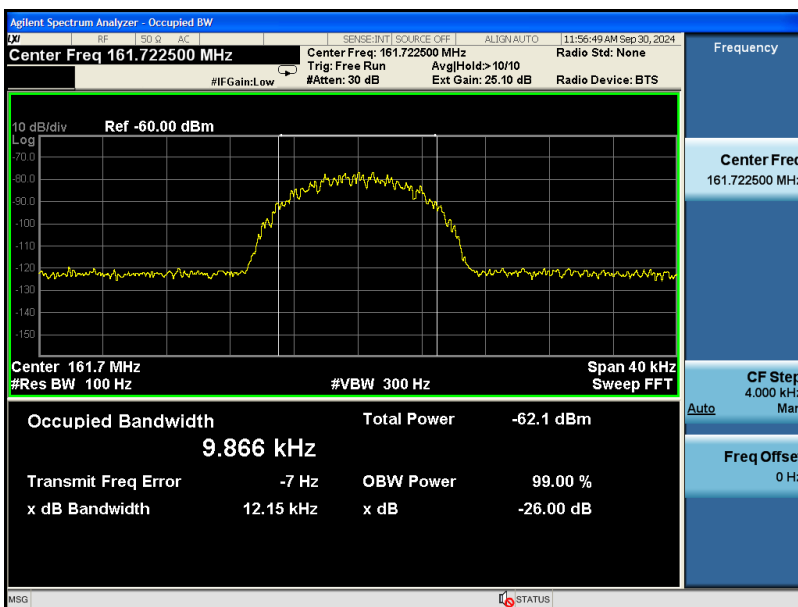


### 99% OBW

#### UL\_H-DQPSK\_MCH\_Input\_Pre-AGC

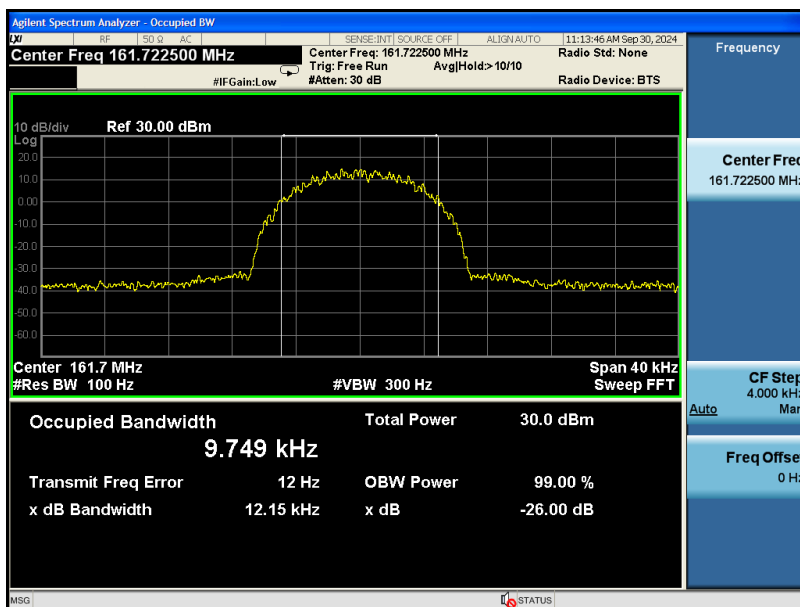


#### UL\_H-DQPSK\_MCH\_Input\_3dB above AGC

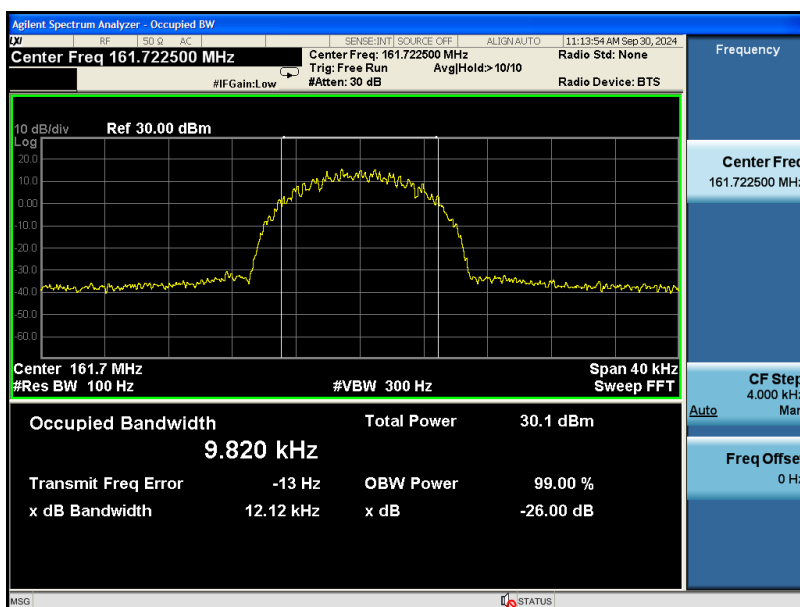


### 99% OBW

#### UL\_H-DQPSK\_MCH\_Output\_Pre-AGC



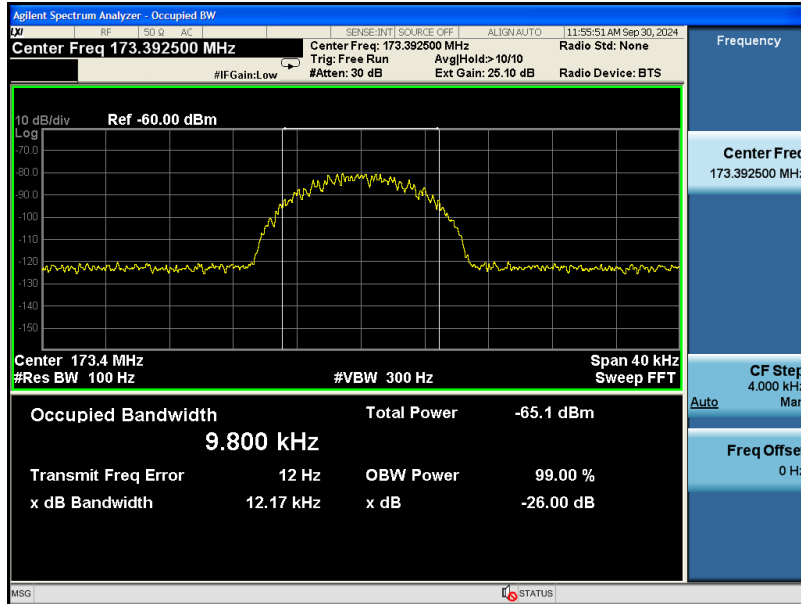
#### UL\_H-DQPSK\_MCH\_Output\_3dB above AGC



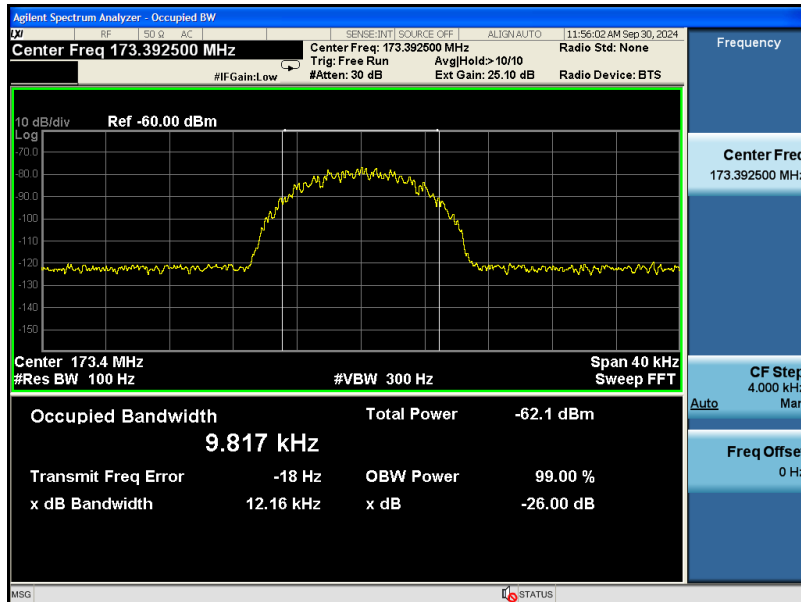


### 99% OBW

#### UL\_H-DQPSK\_HCH\_Input\_Pre-AGC

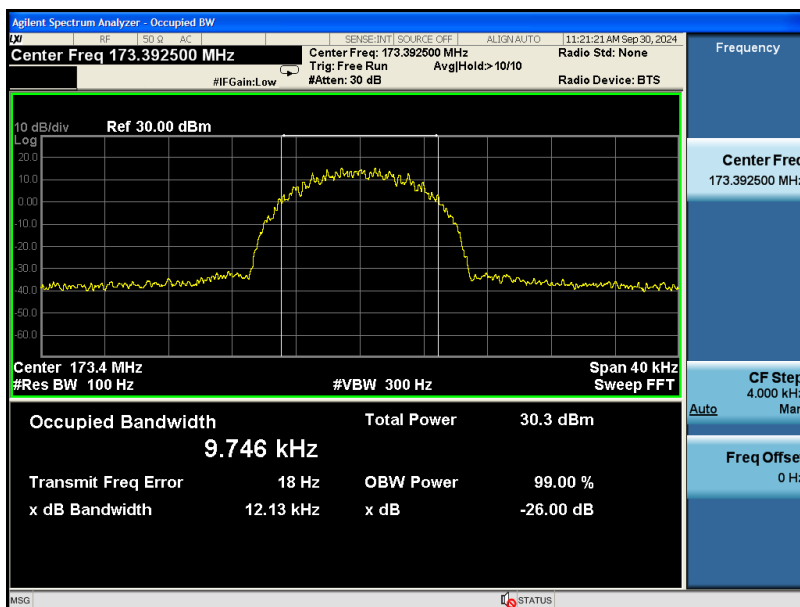


#### UL\_H-DQPSK\_HCH\_Input\_3dB above AGC

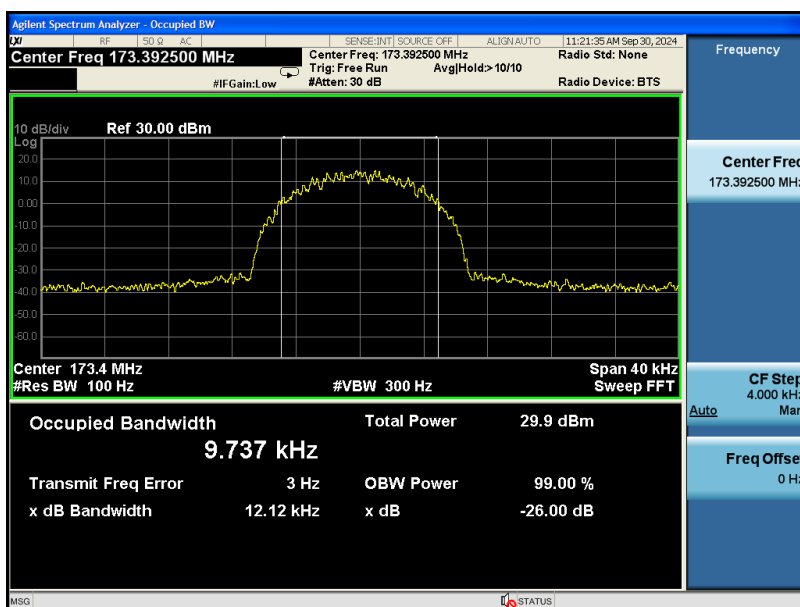


### 99% OBW

#### UL\_H-DQPSK\_HCH\_Output\_Pre-AGC

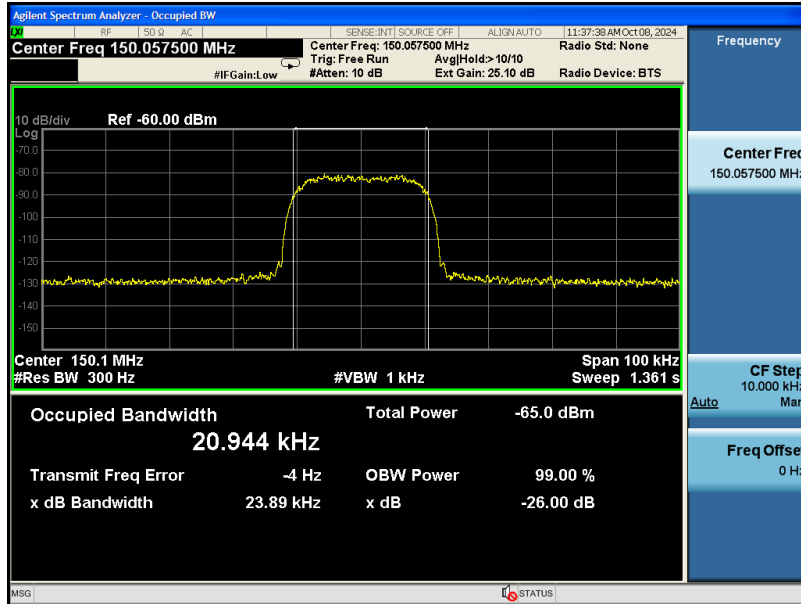


#### UL\_H-DQPSK\_HCH\_Output\_3dB above AGC

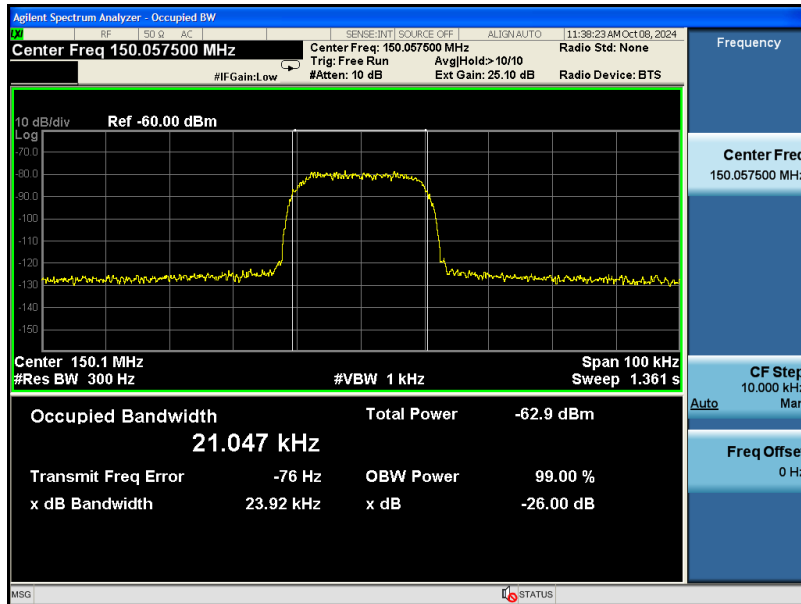


### 99% OBW

#### UL\_TETRA\_LCH\_Input\_Pre-AGC

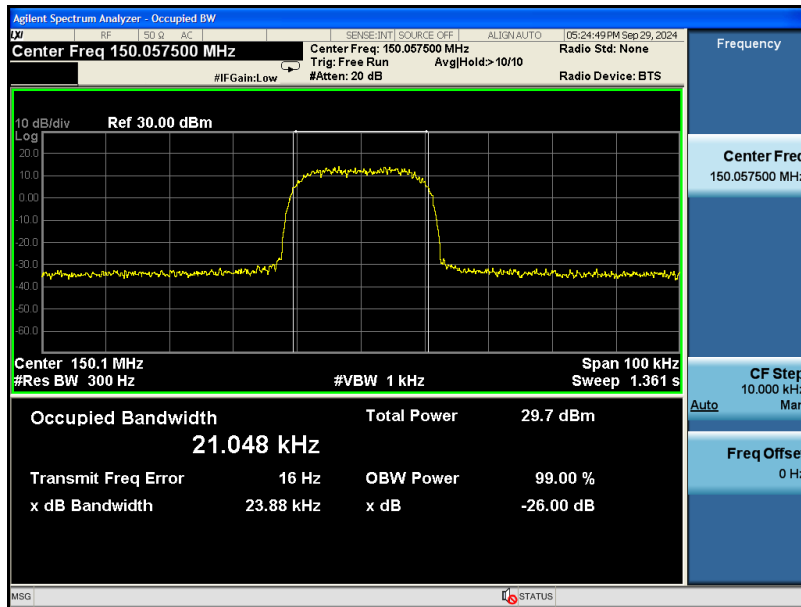


#### UL\_TETRA\_LCH\_Input\_3dB above AGC

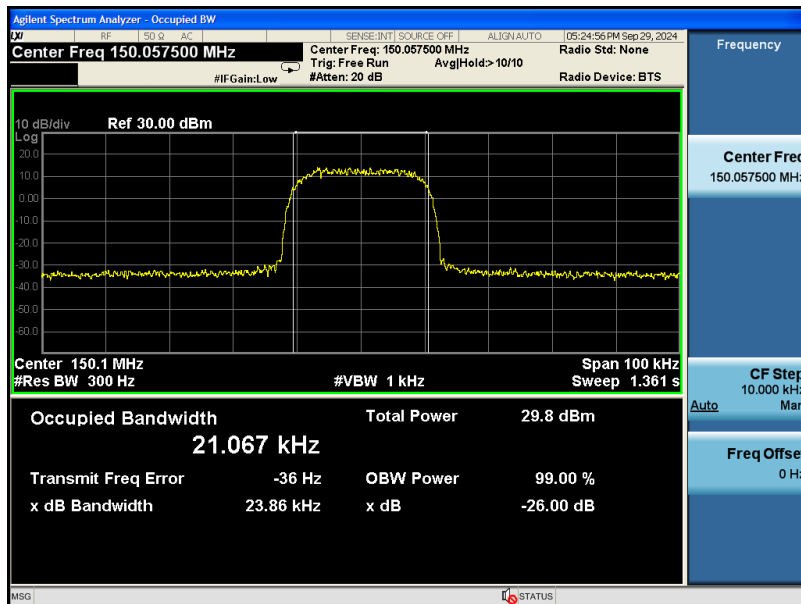


### 99% OBW

#### UL\_TETRA\_LCH\_Output\_Pre-AGC

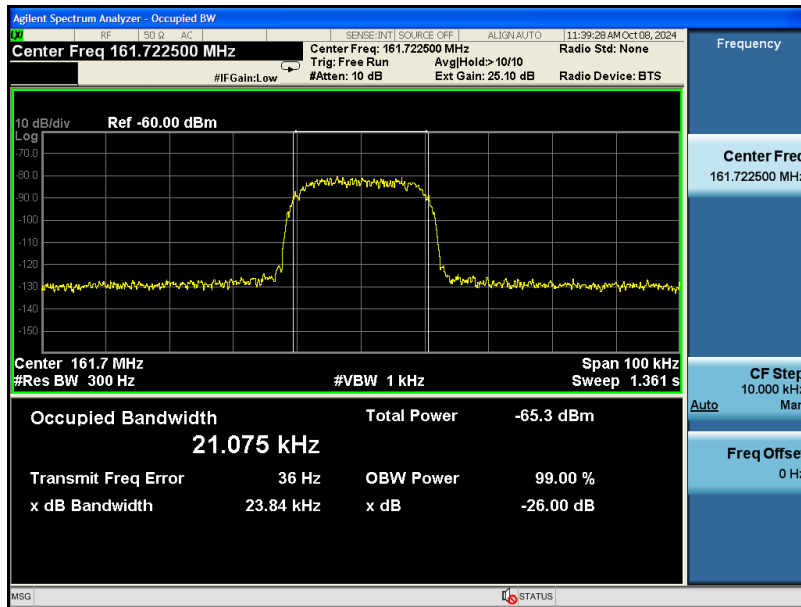


#### UL\_TETRA\_LCH\_Output\_3dB above AGC

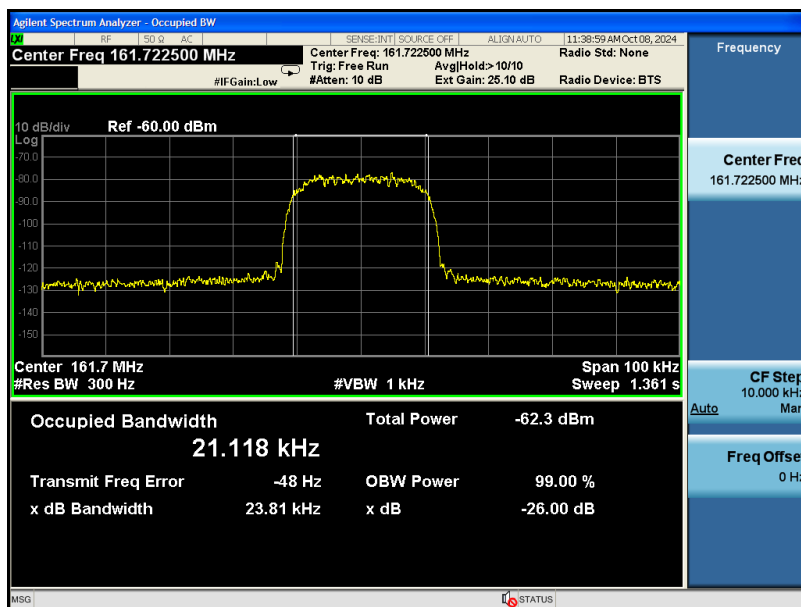


### 99% OBW

#### UL\_TETRA\_MCH\_Input\_Pre-AGC



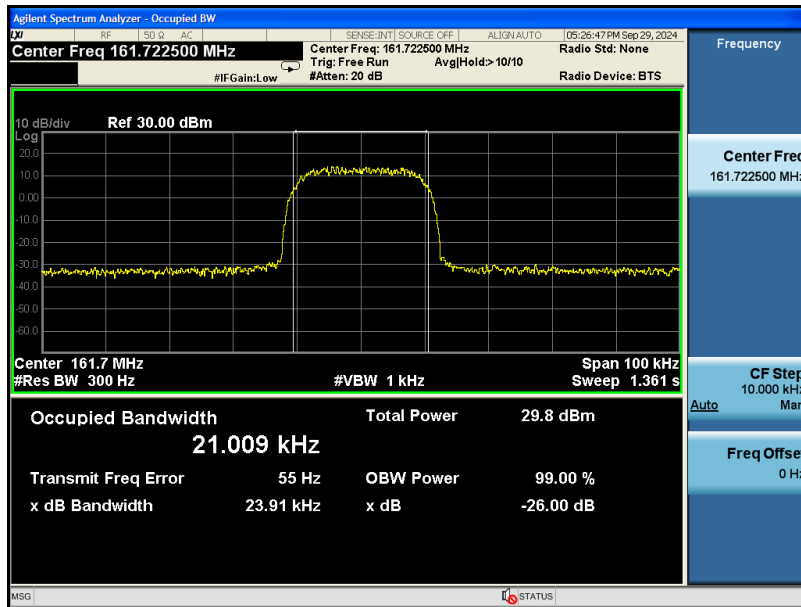
#### UL\_TETRA\_MCH\_Input\_3dB above AGC



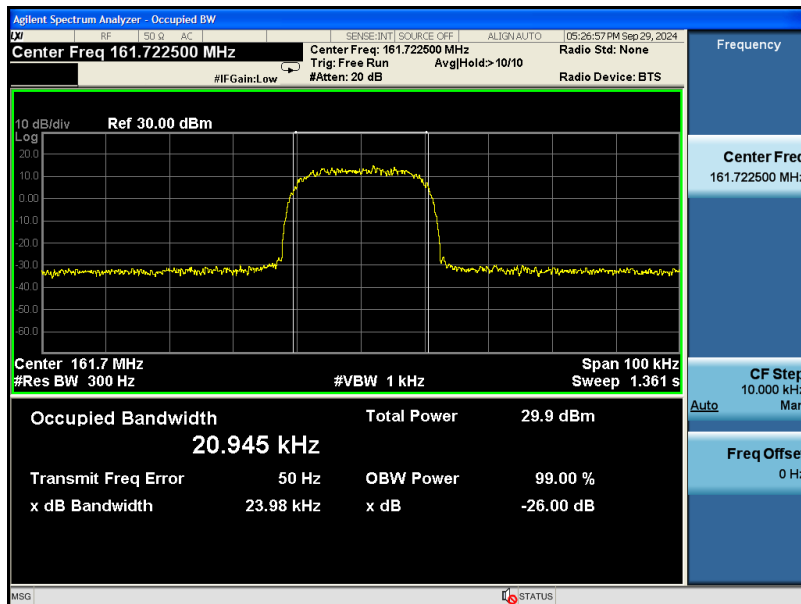


### 99% OBW

#### UL\_TETRA\_MCH\_Output\_Pre-AGC

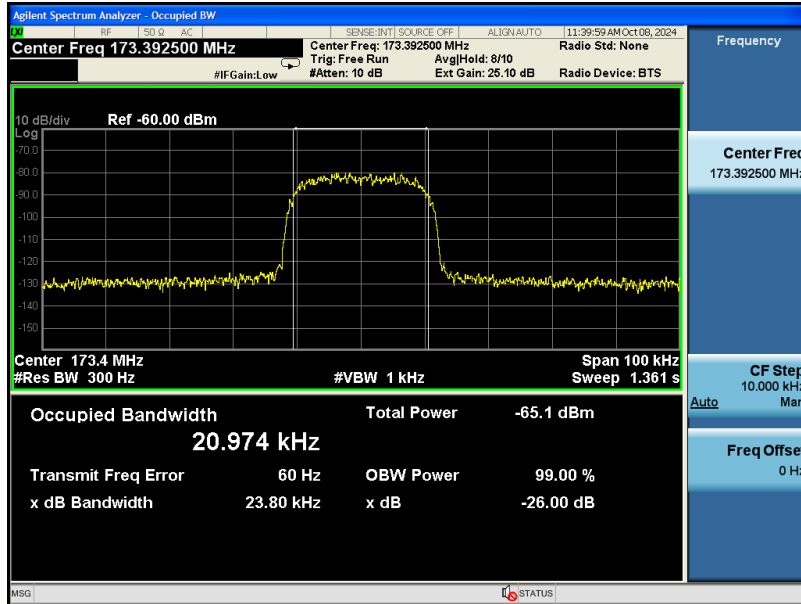


#### UL\_TETRA\_MCH\_Output\_3dB above AGC

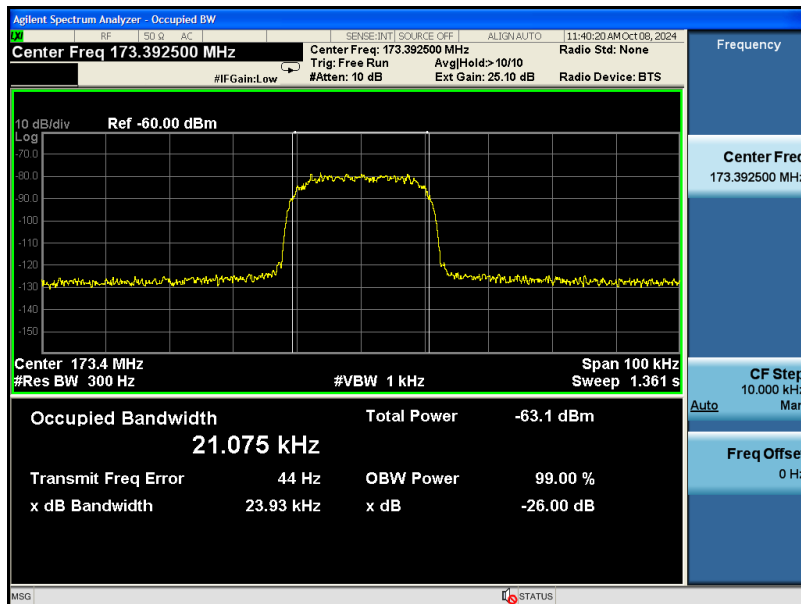


### 99% OBW

#### UL\_TETRA\_HCH\_Input\_Pre-AGC

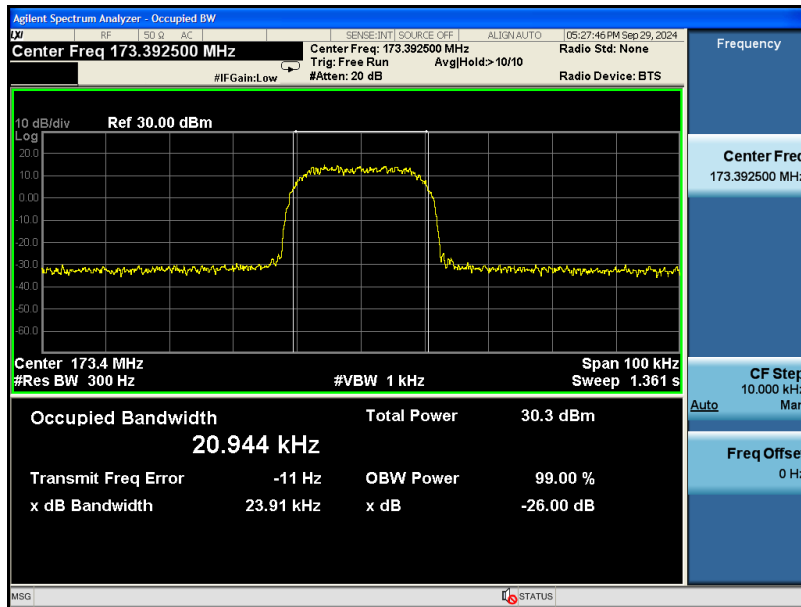


#### UL\_TETRA\_HCH\_Input\_3dB above AGC

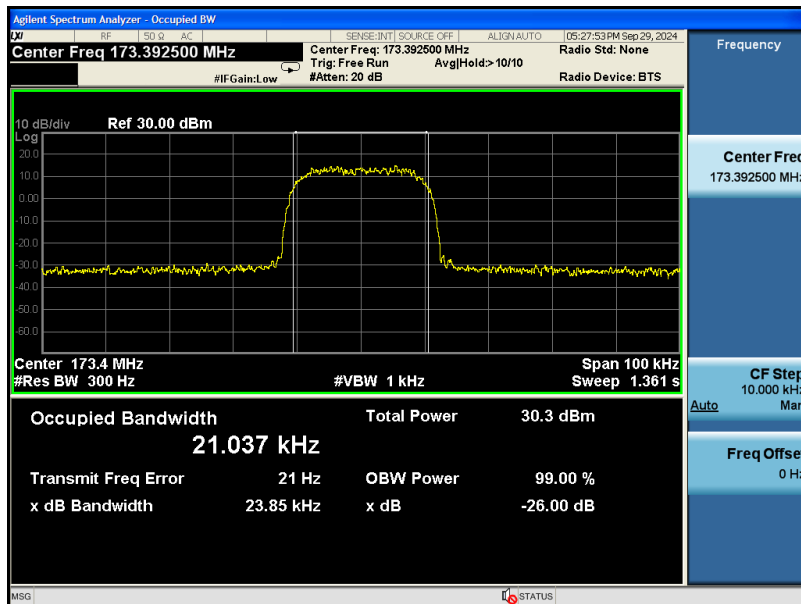


### 99% OBW

#### UL\_TETRA\_HCH\_Output\_Pre-AGC



#### UL\_TETRA\_HCH\_Output\_3dB above AGC



## 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	171.5	Pre-AGC	-65	30.37	0.67	5	95.37	PASS
		3dB above AGC	-62	30.66	0.71		/	PASS
UL	171.9	Pre-AGC	-65	30.13	0.63		95.13	PASS
		3dB above AGC	-62	30.48	0.69		/	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 30dBm for DL & UL, and the Output power showed in above table is within  $\pm 1.0$ 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



Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	TETRA	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
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	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
UL	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
	TETRA	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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