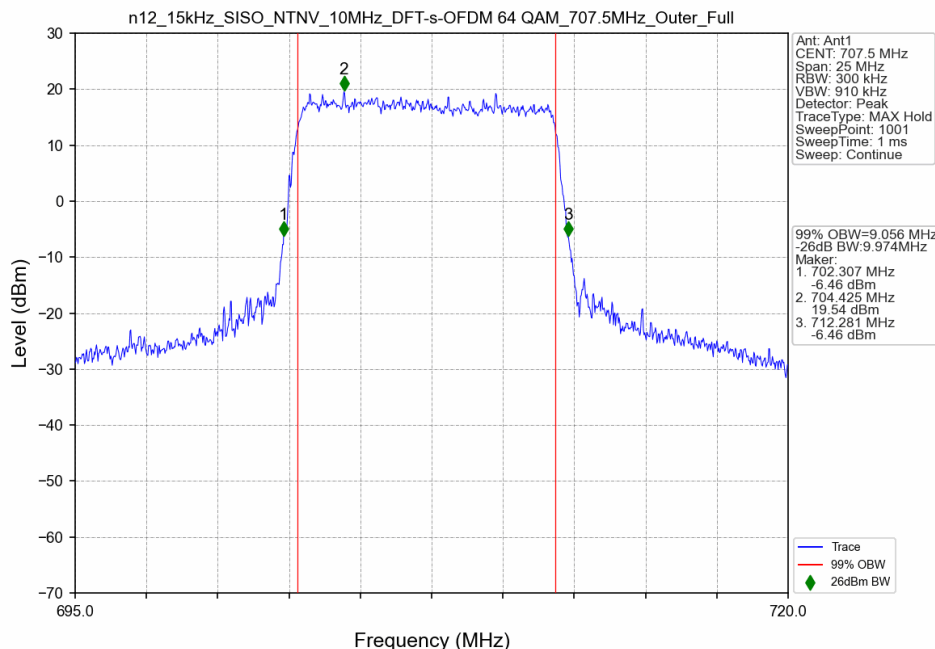
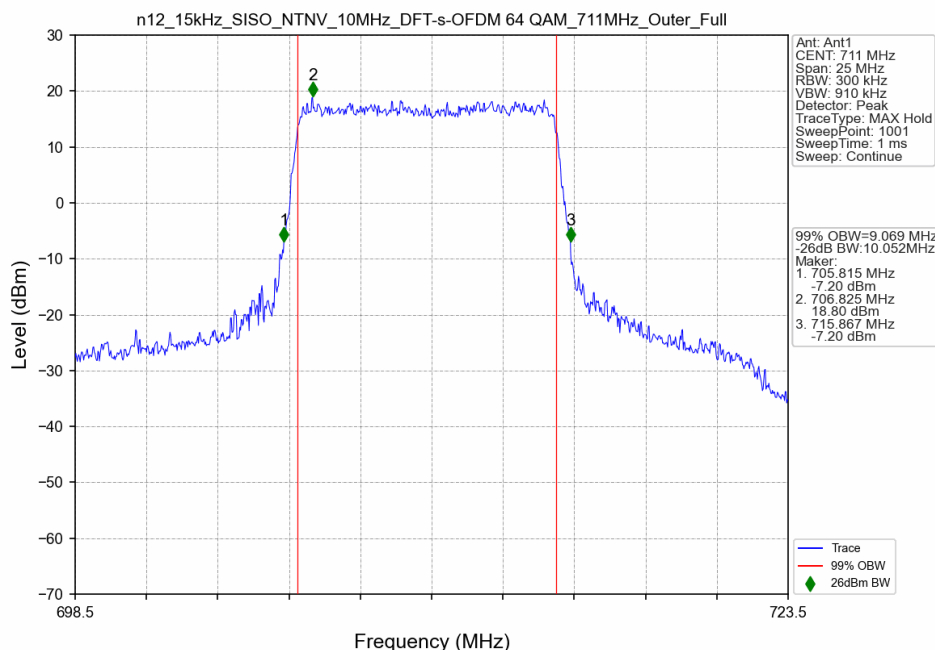


n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_707.5MHz_Outer_Full



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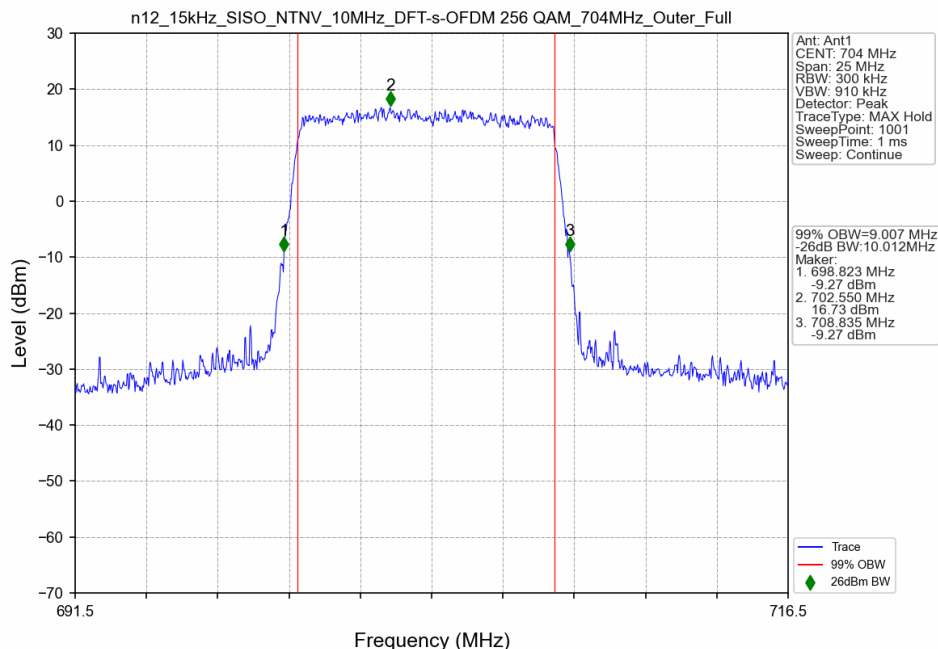


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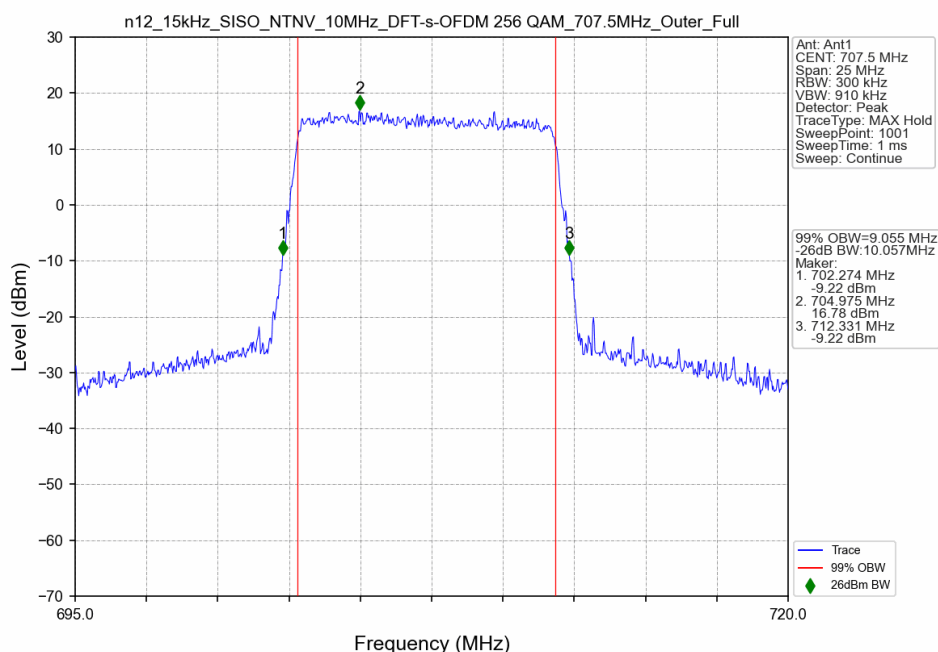
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_704MHz_Outer_Full



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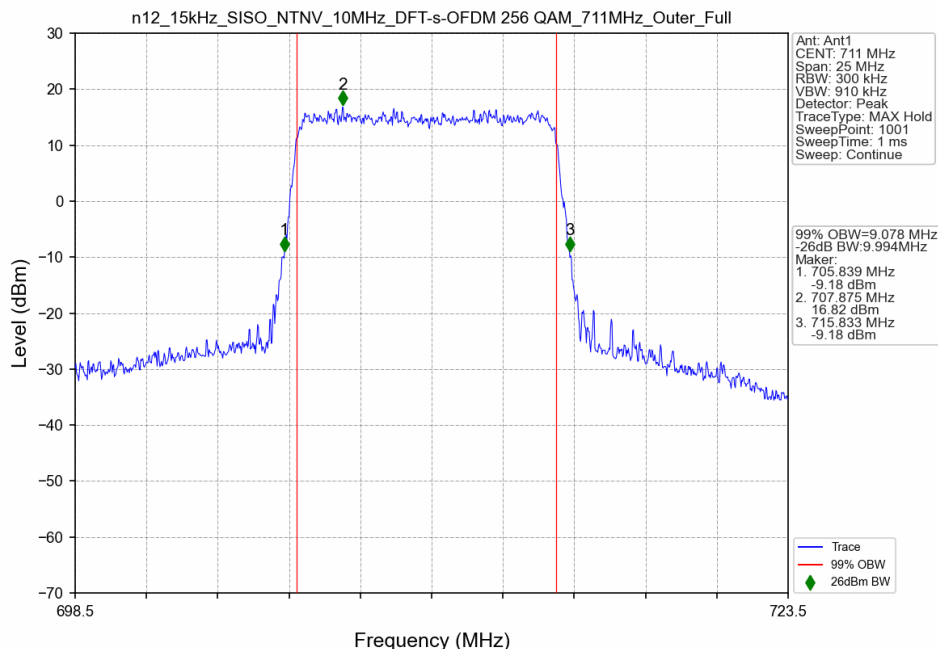


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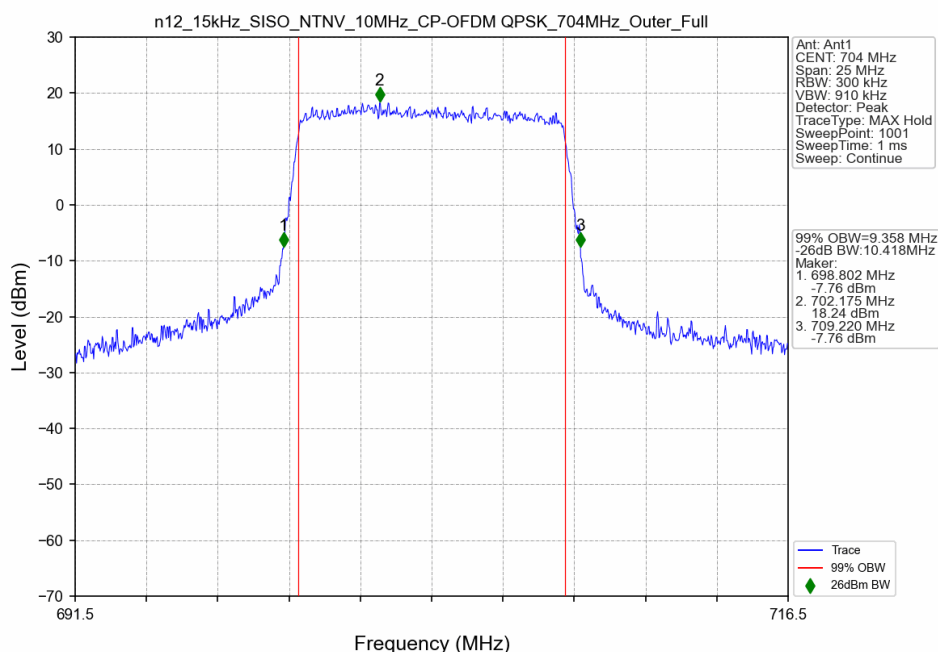
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n12_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_711MHz_Outer_Full



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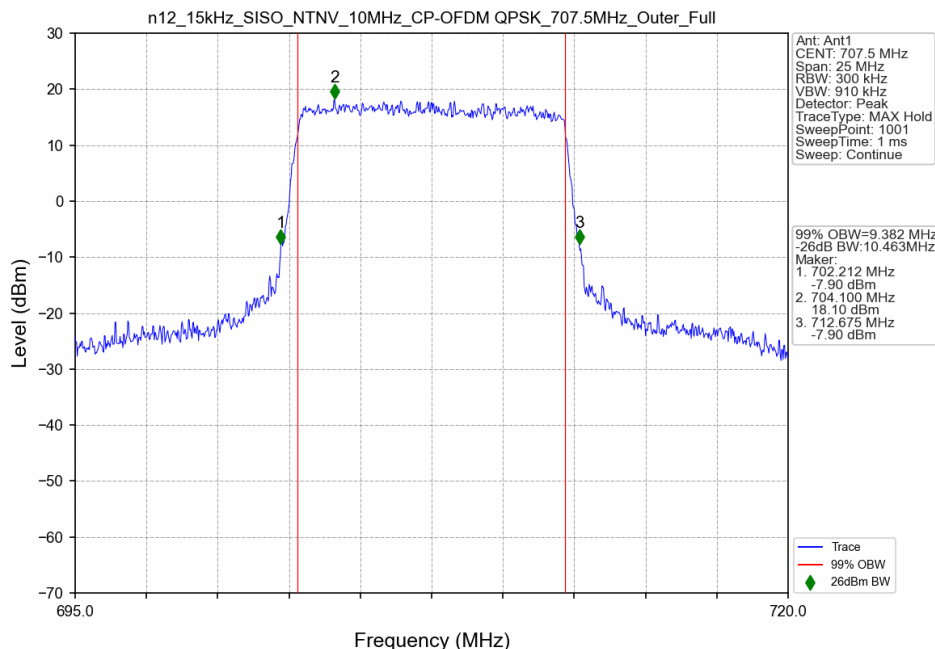


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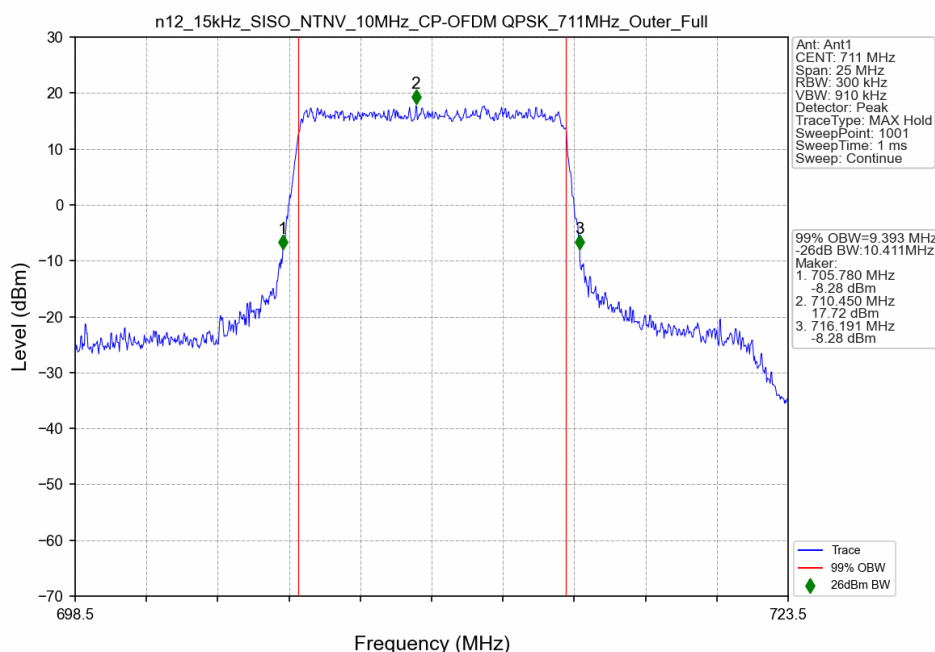
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n12_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_707.5MHz_Outer_Full



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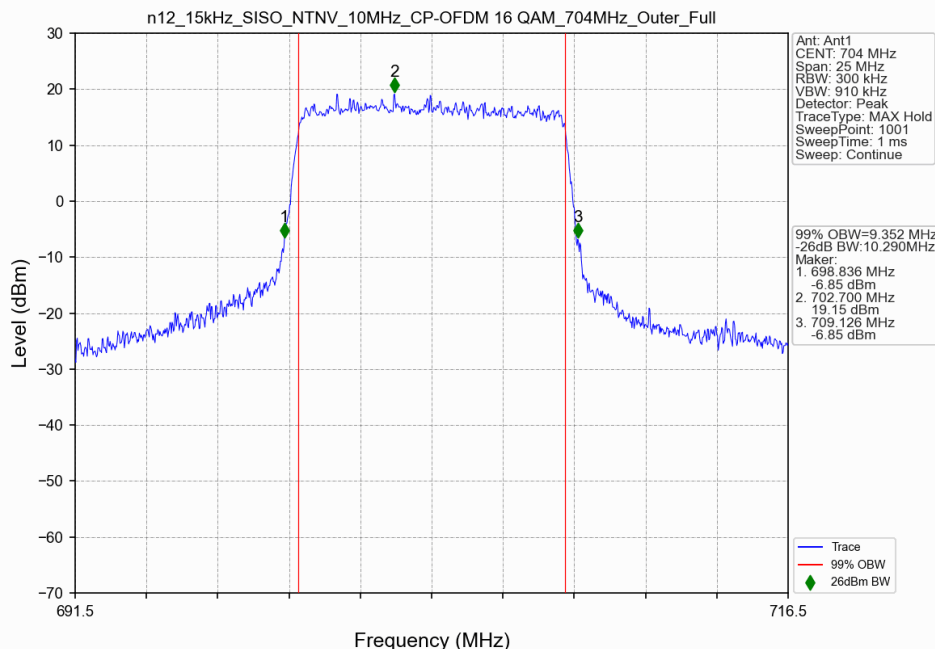


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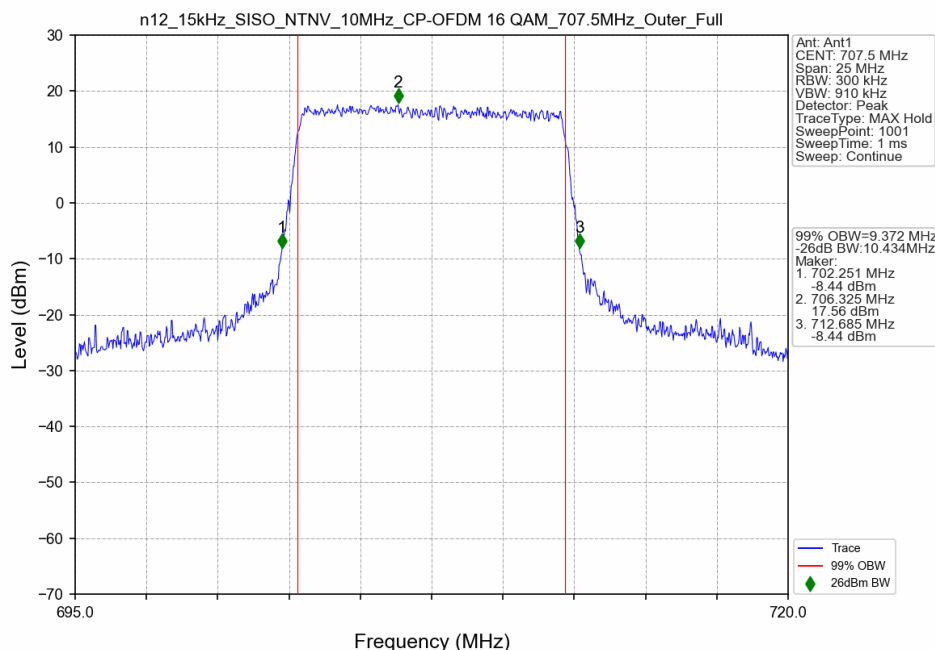
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n12_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_704MHz_Outer_Full



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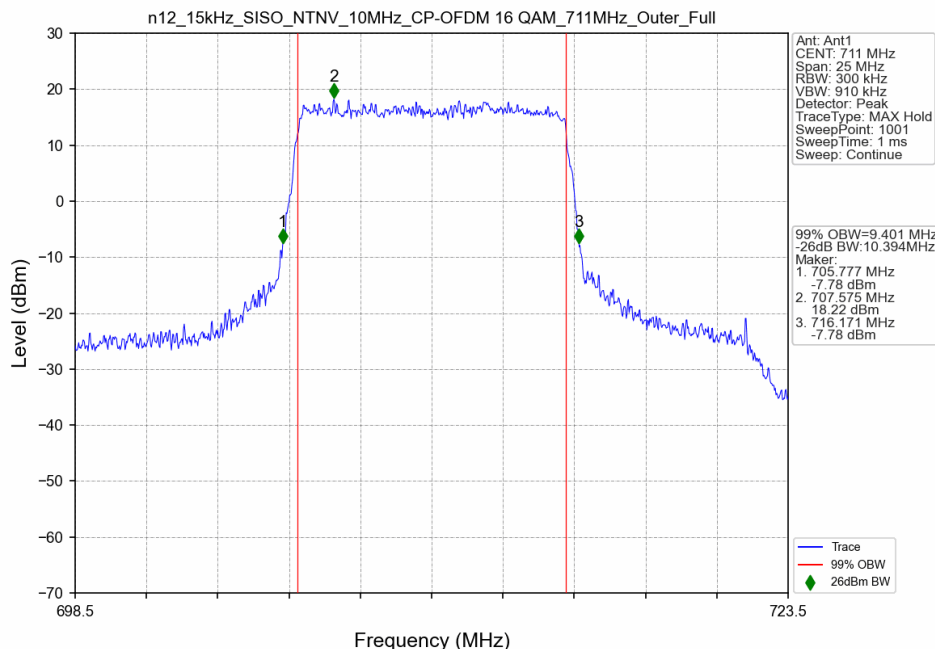


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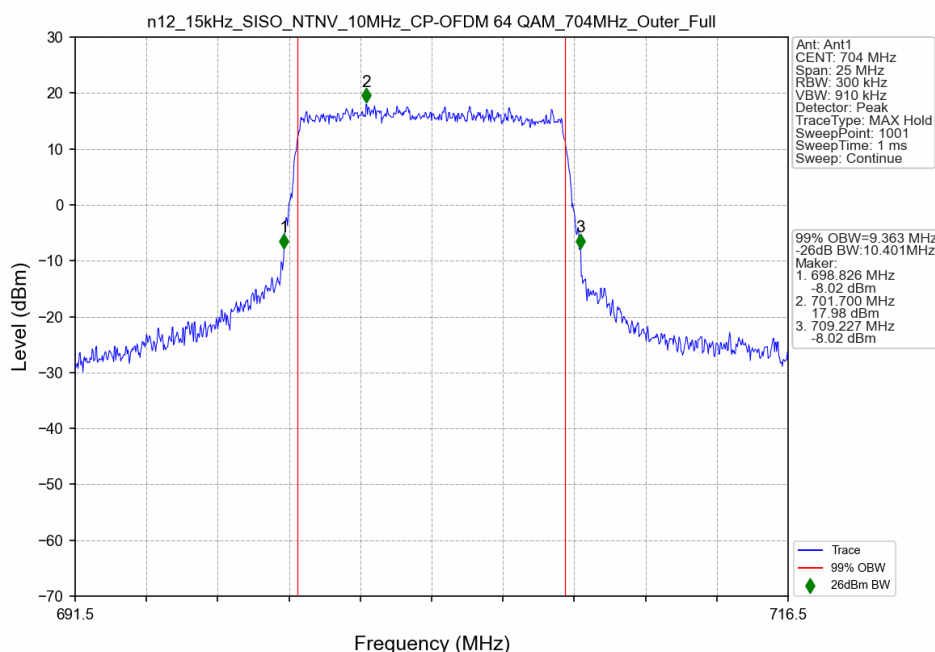
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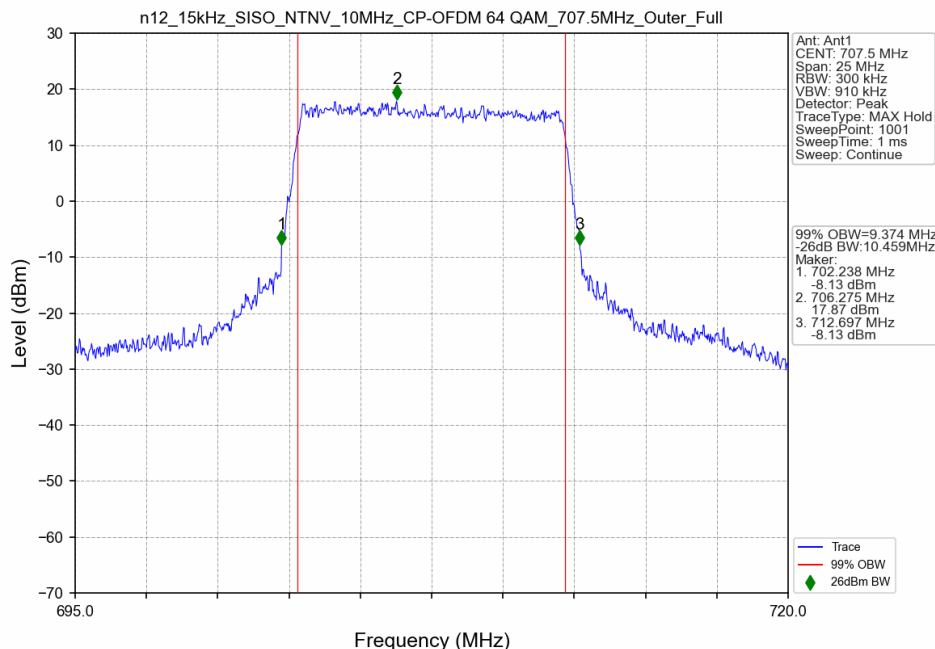
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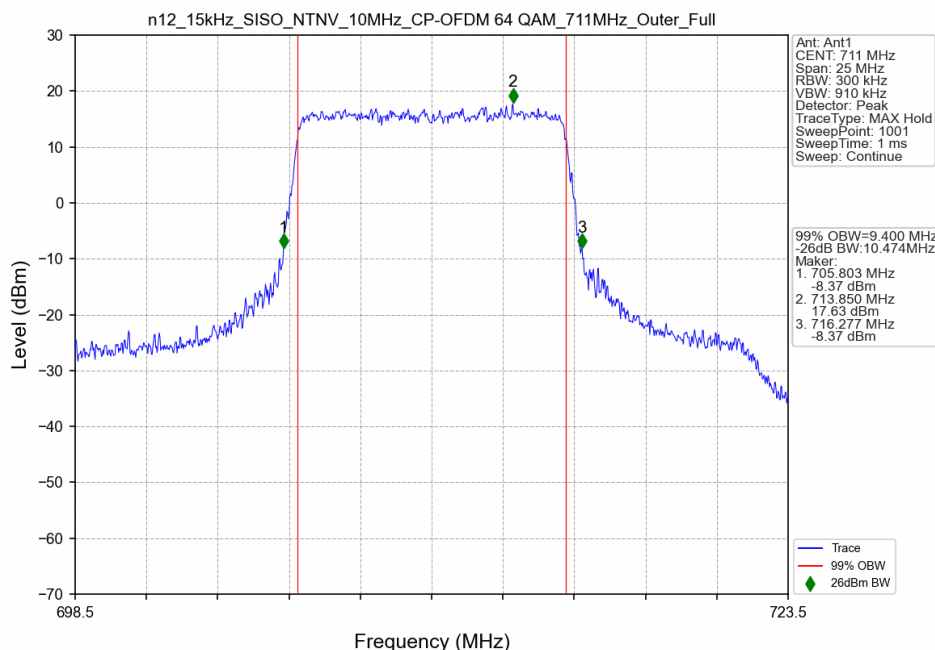
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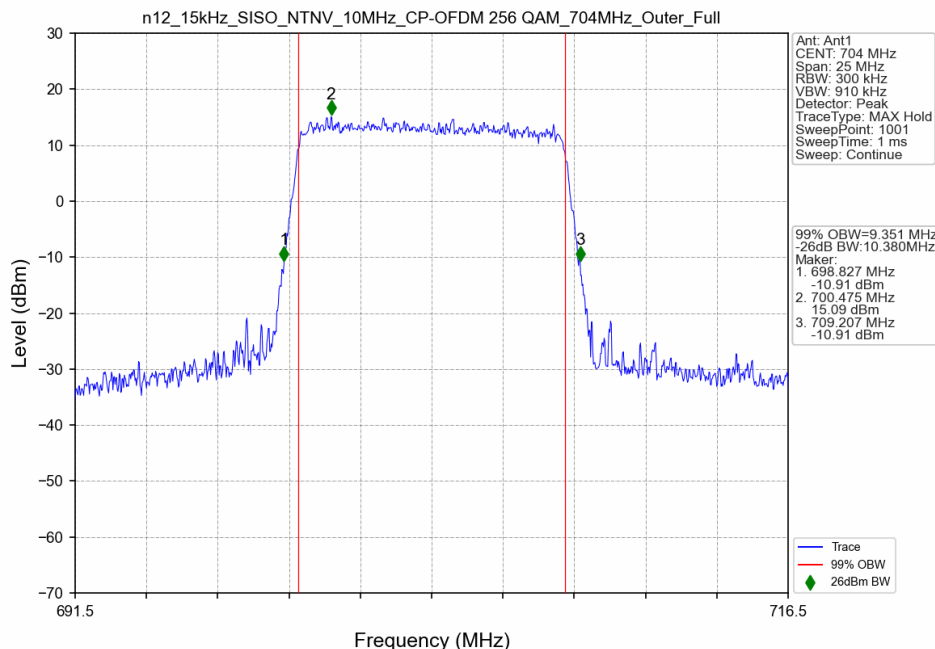
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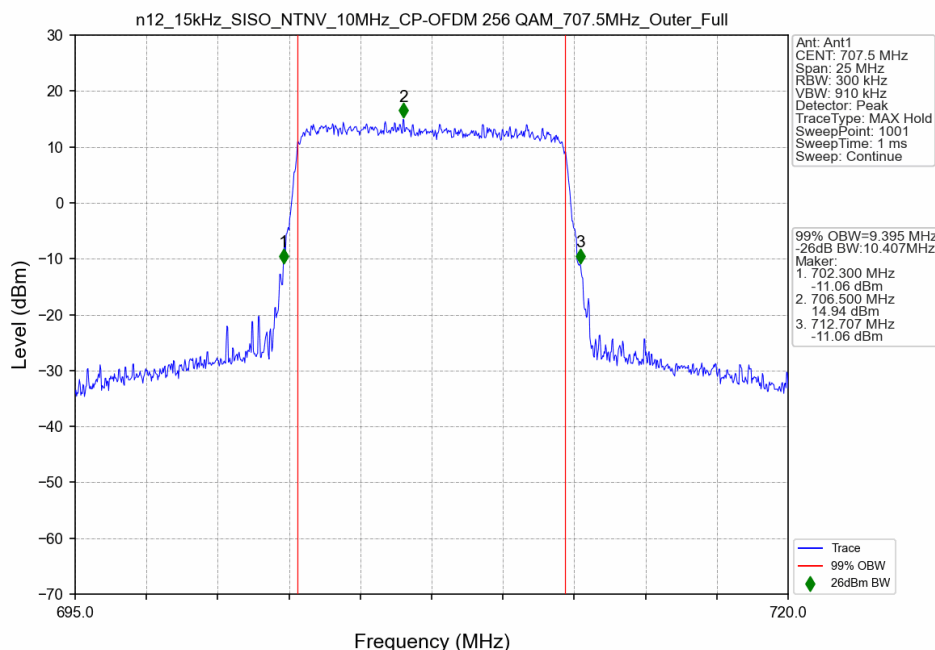
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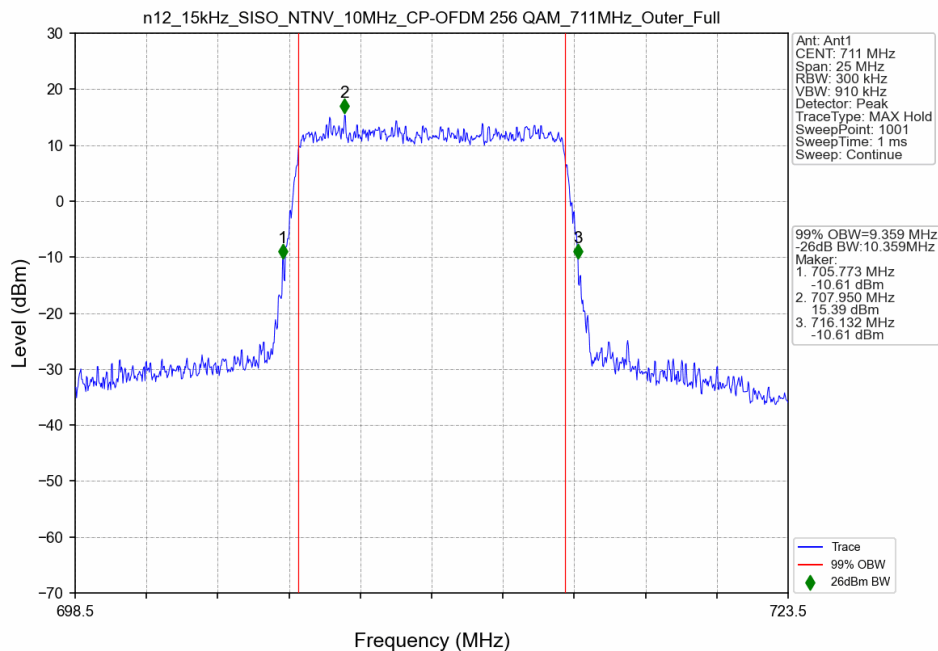
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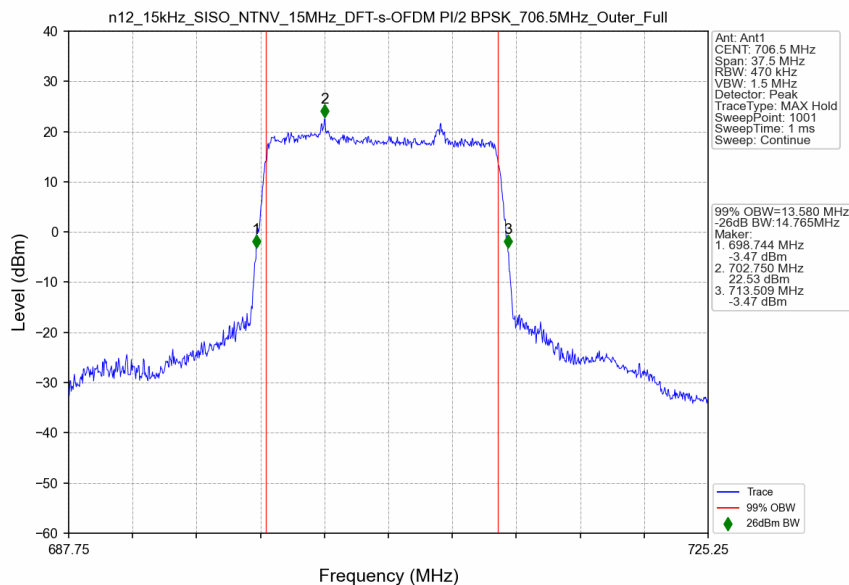
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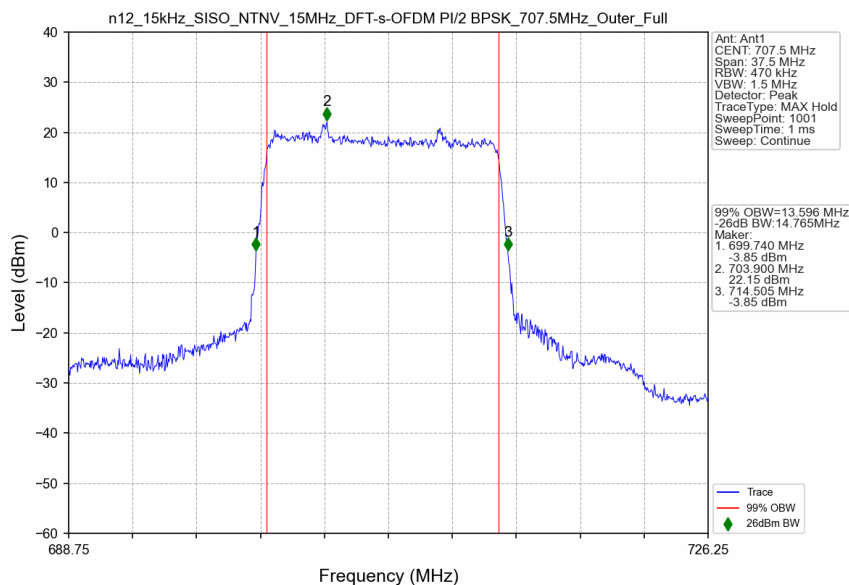
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3.2.3 15k_SISO_15MHz_NTNV

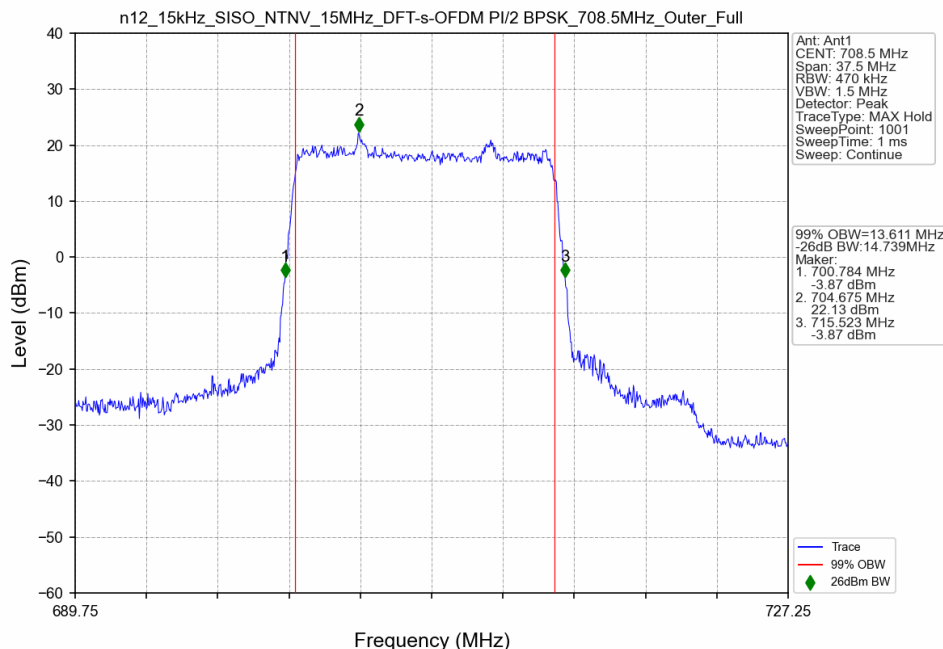
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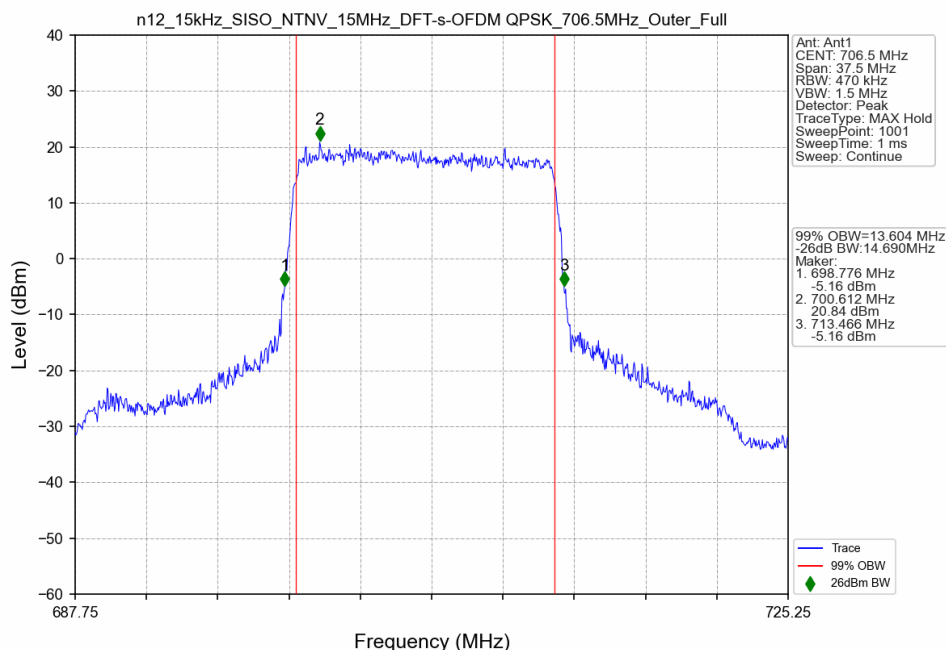
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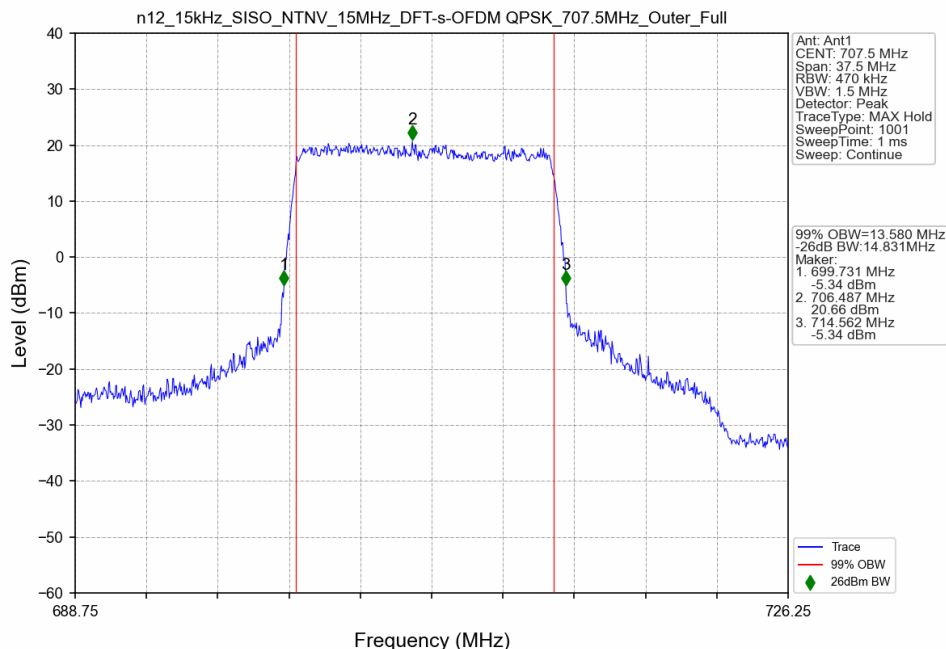
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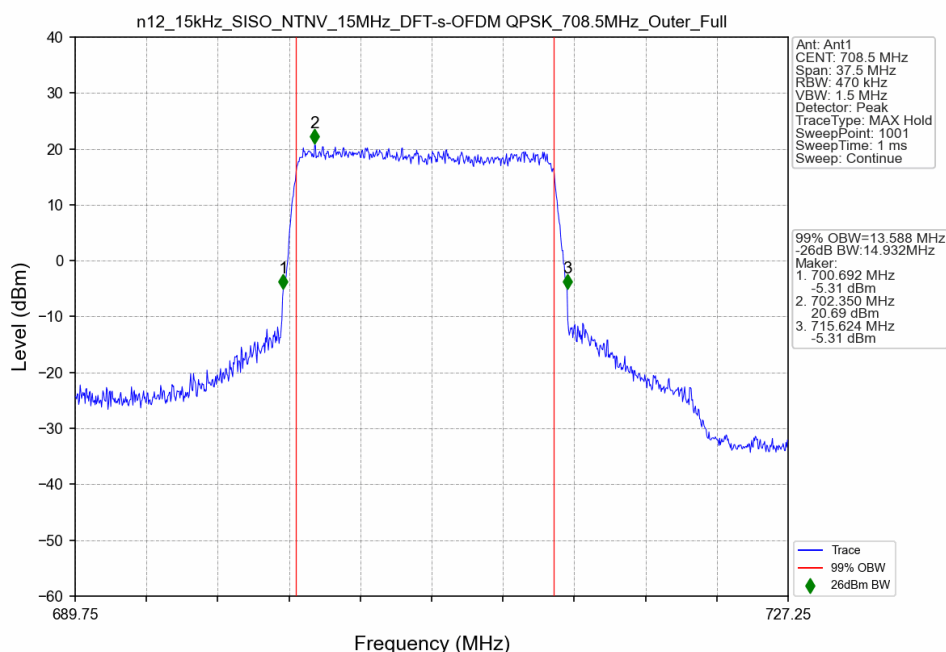
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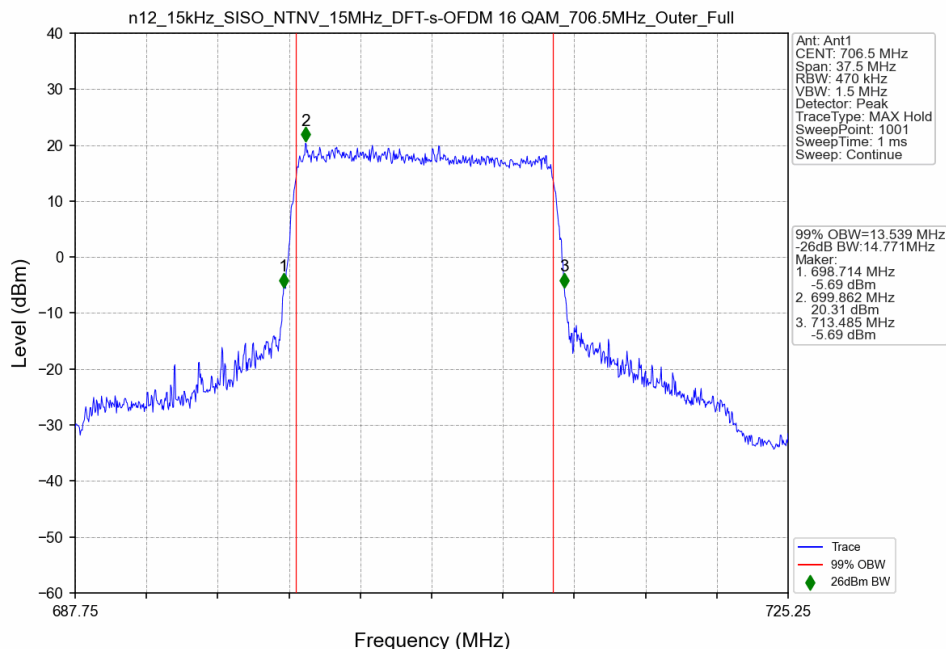


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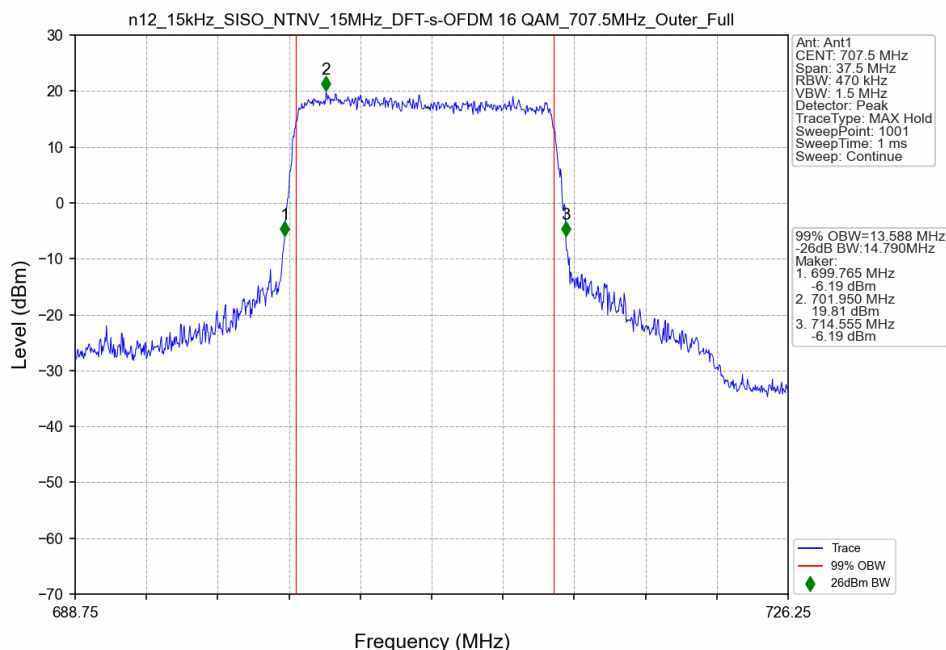
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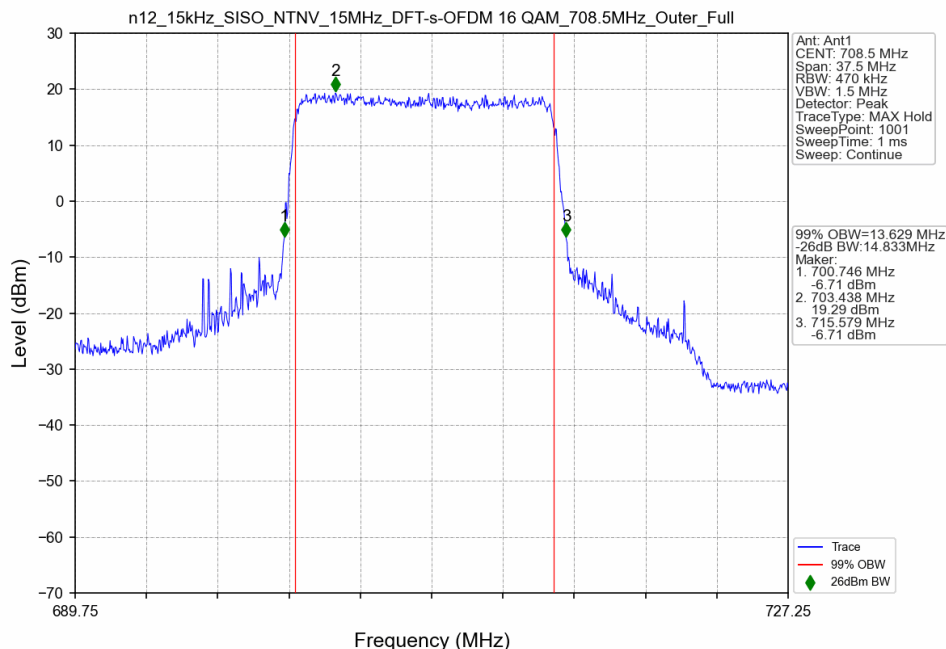
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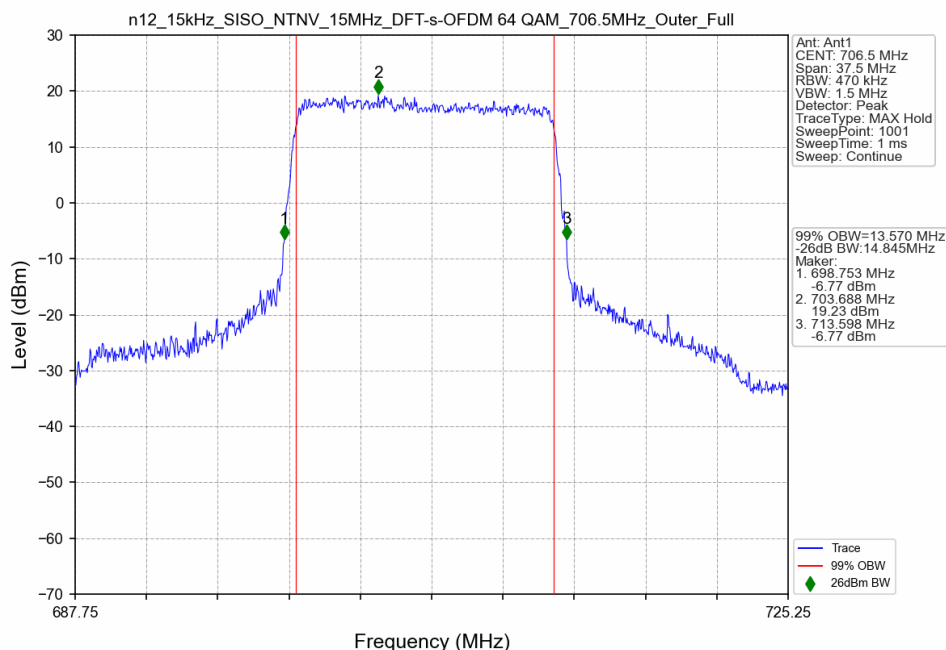
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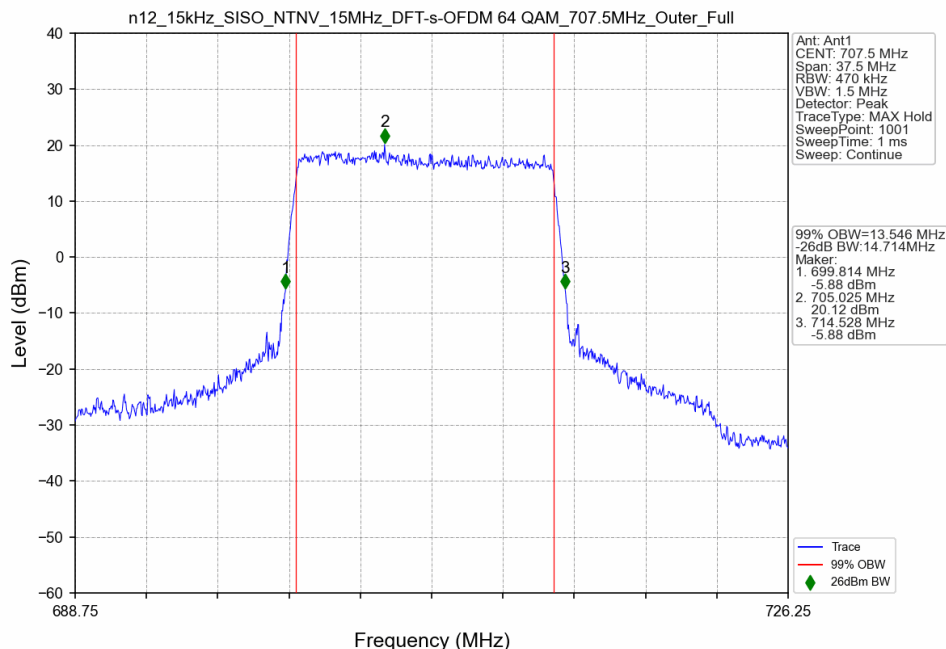
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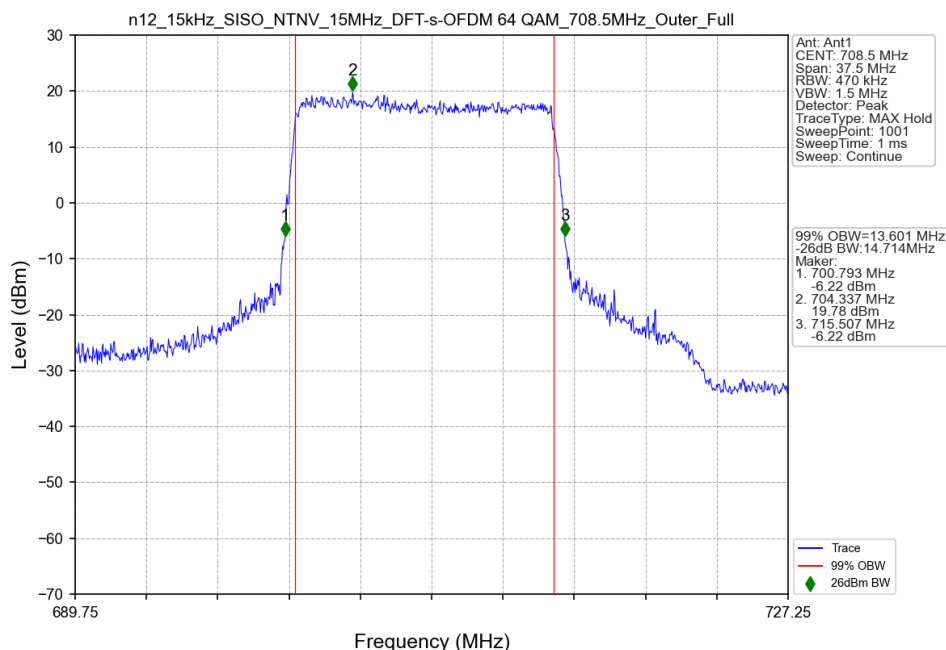
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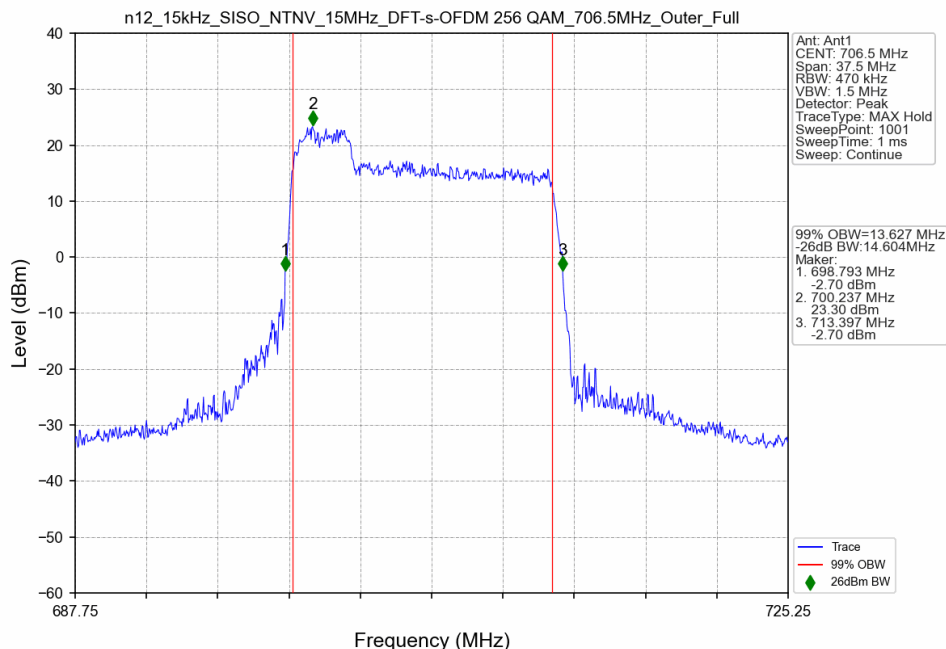
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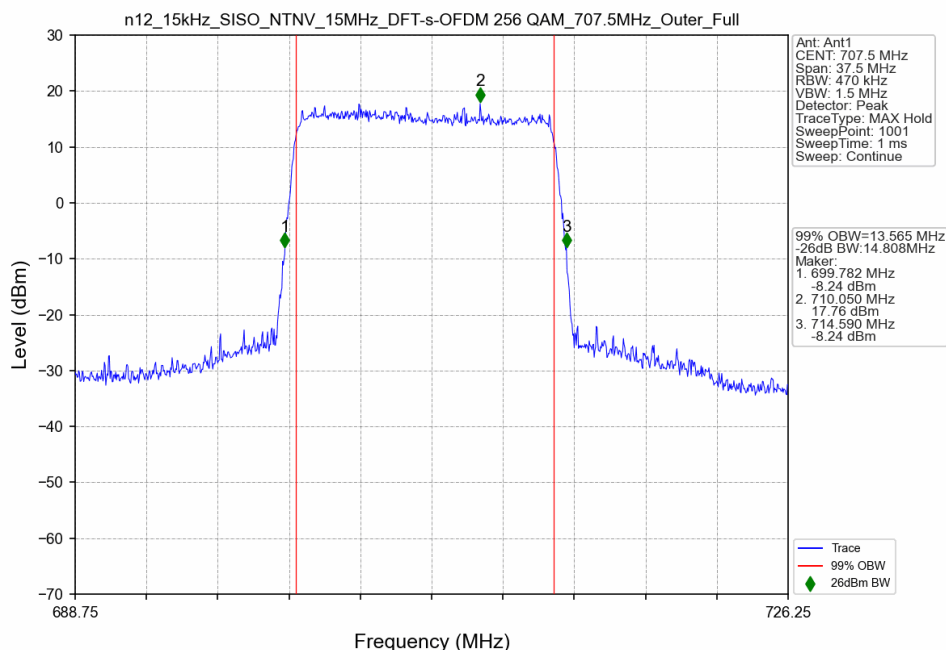
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n12_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_706.5MHz_Outer_Full



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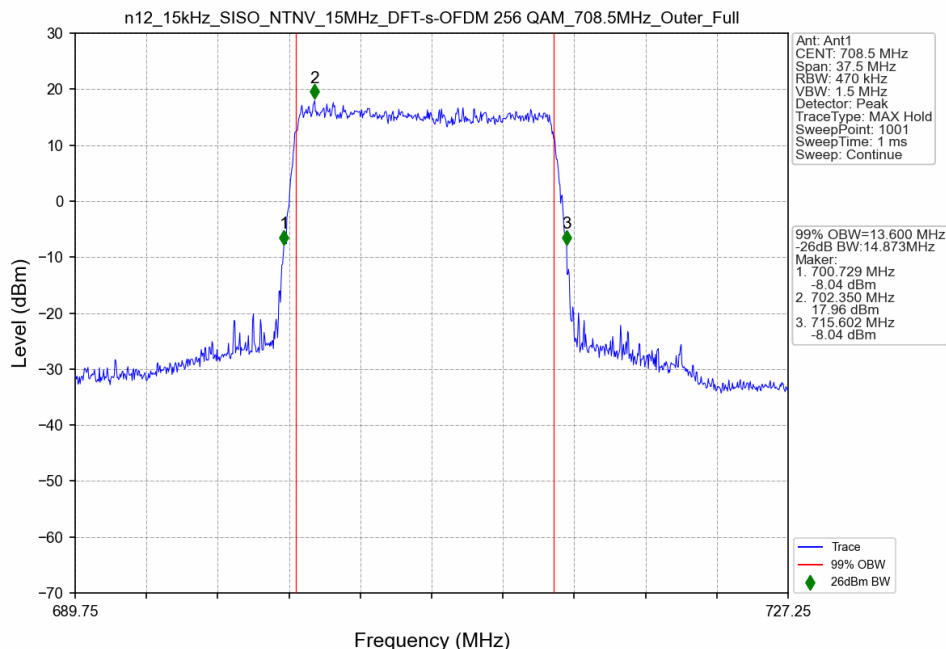


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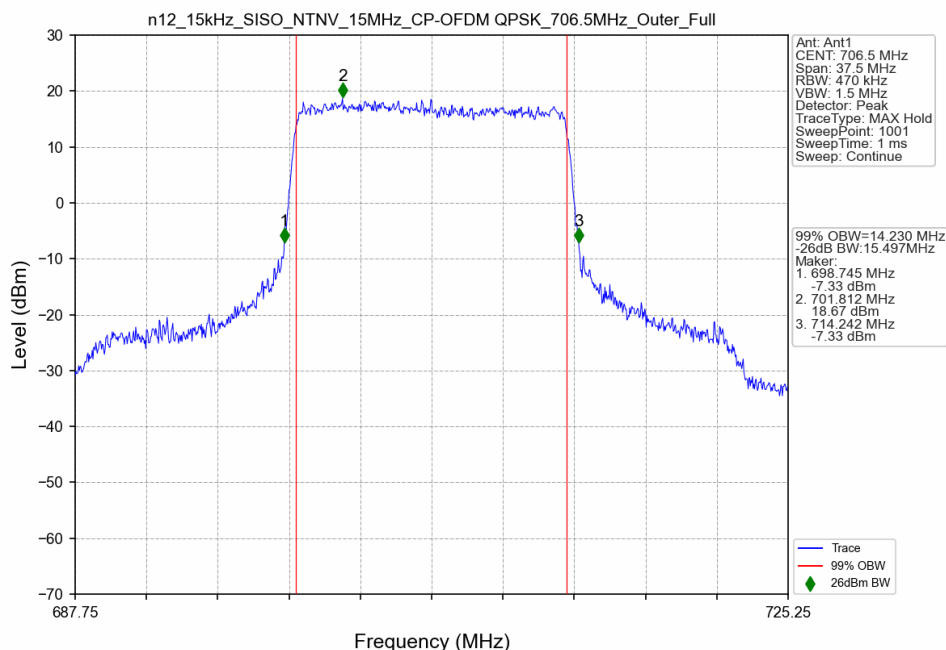
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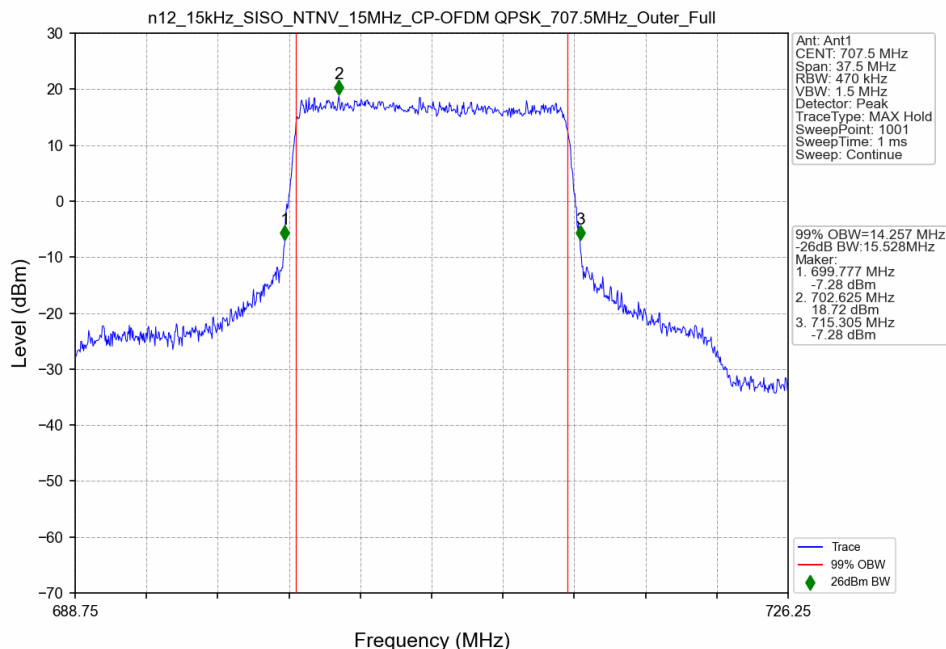


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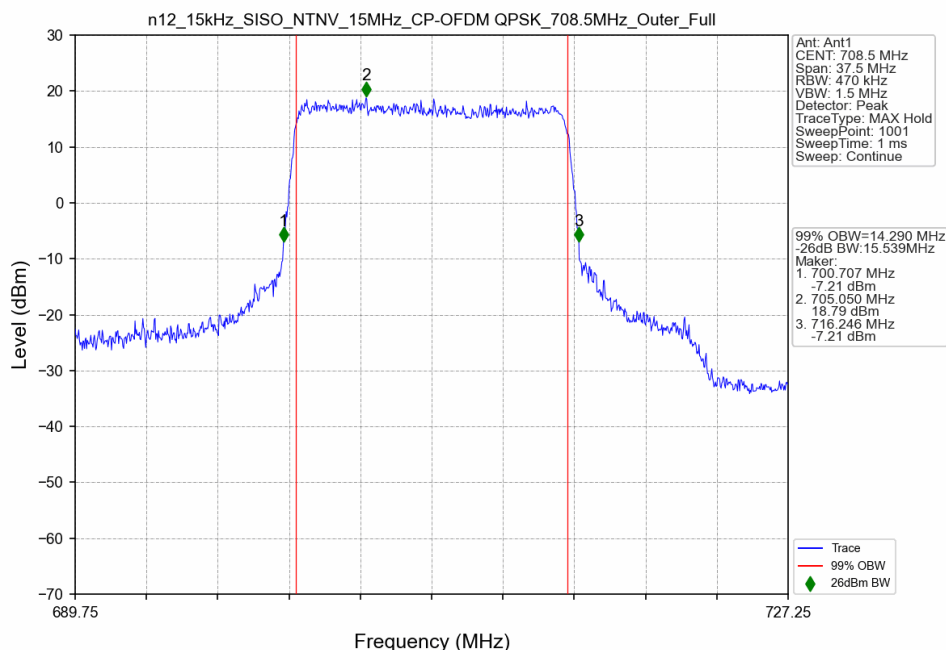
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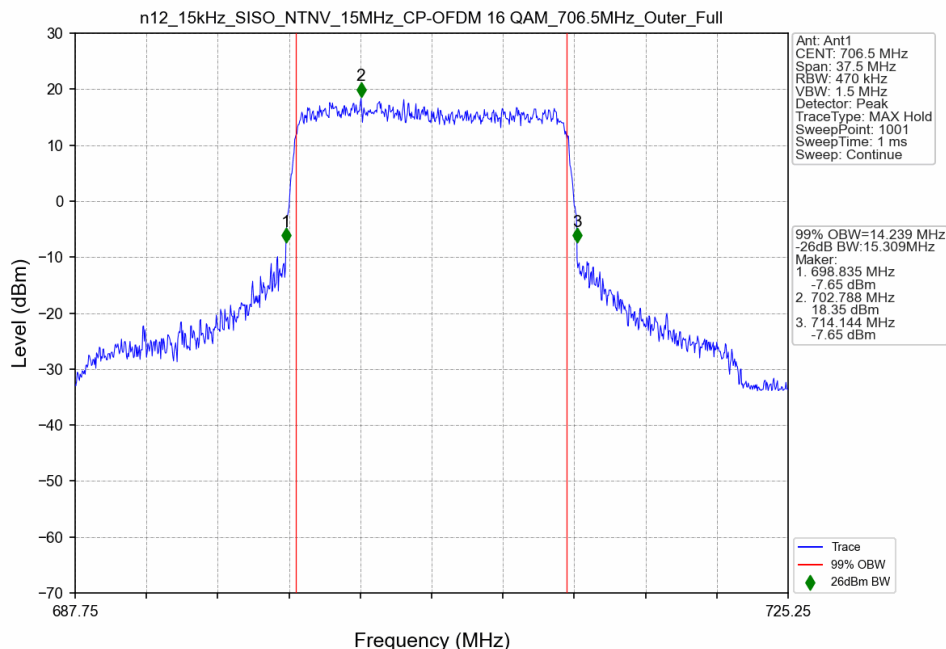


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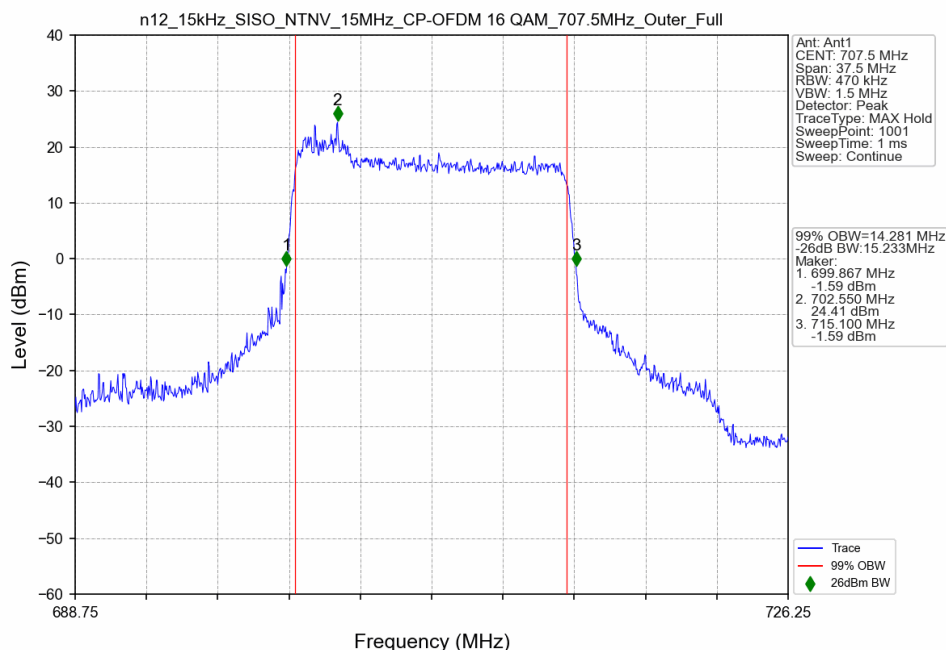
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_706.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_707.5MHz_Outer_Full

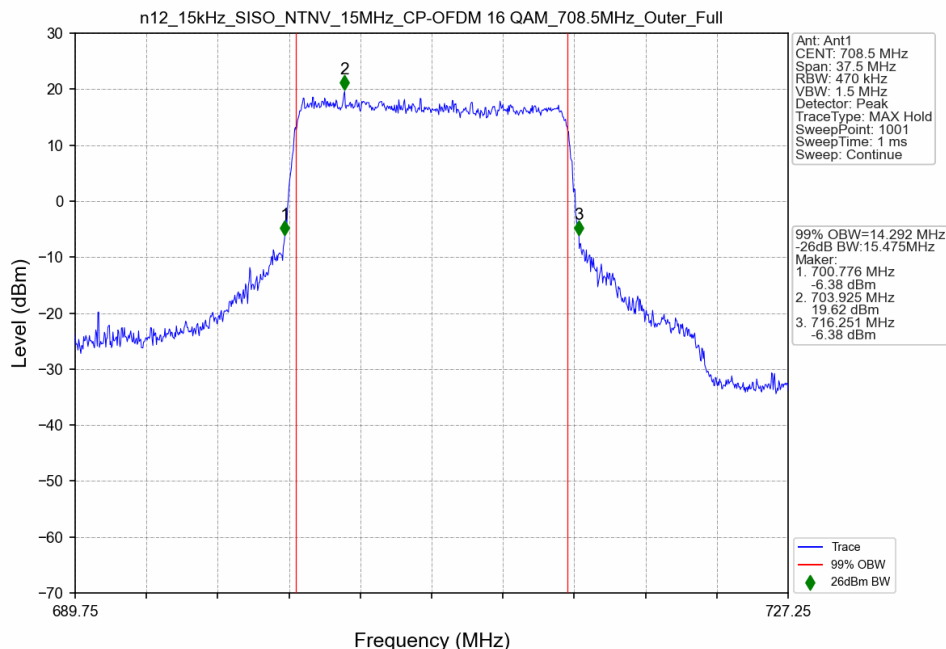


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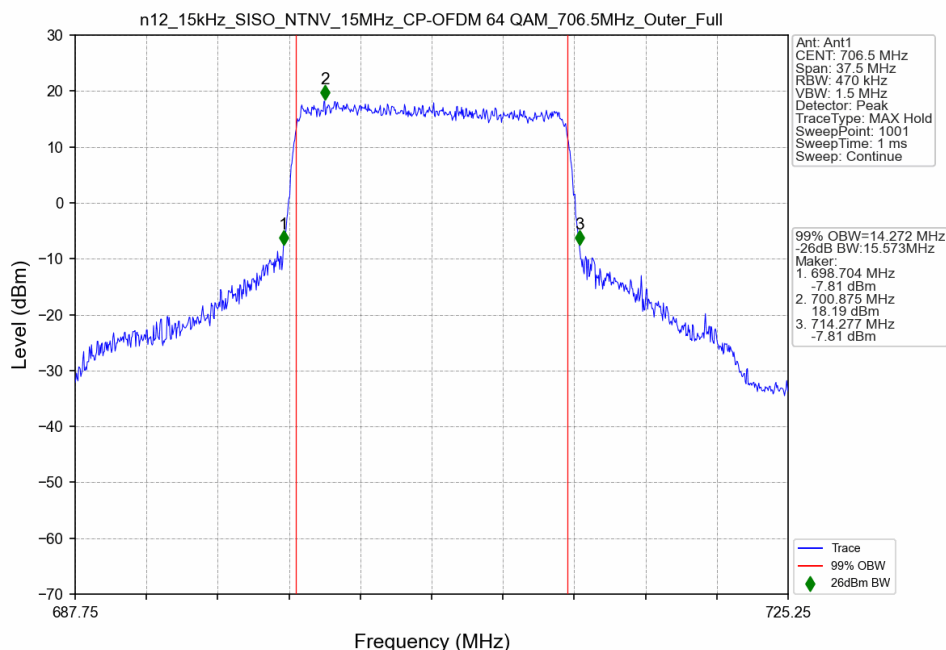
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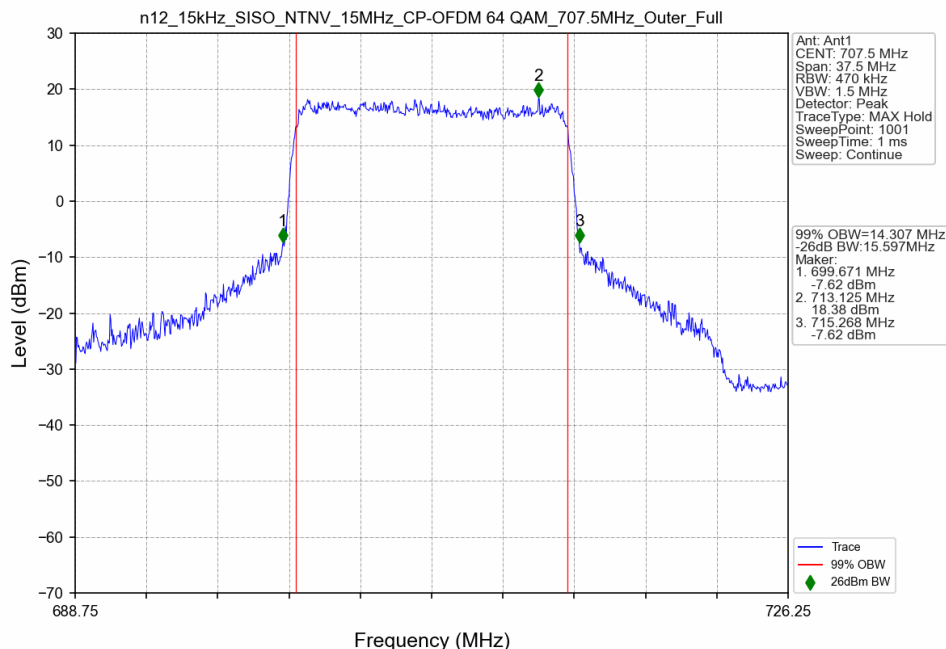
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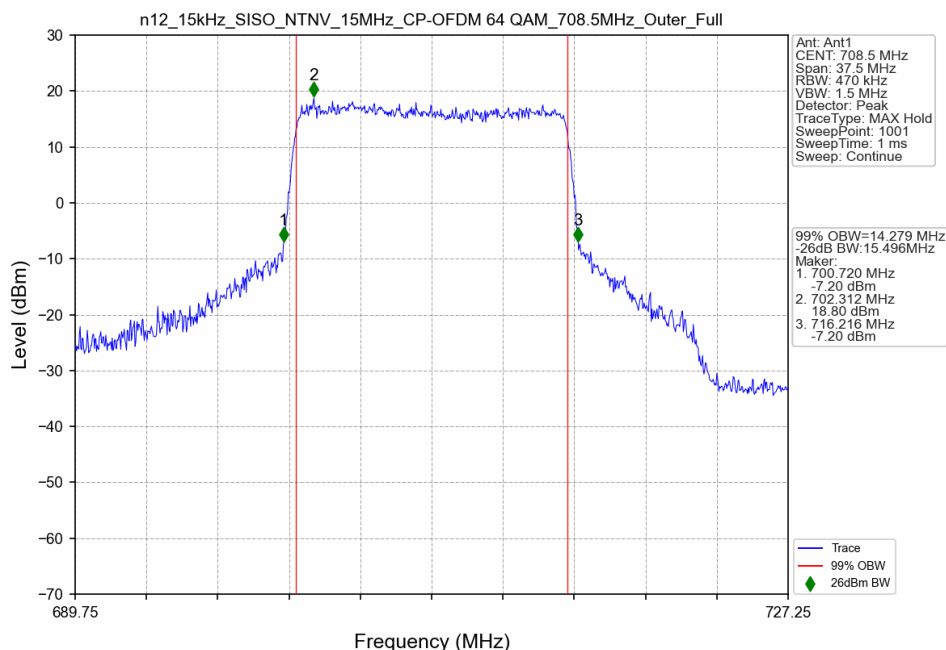
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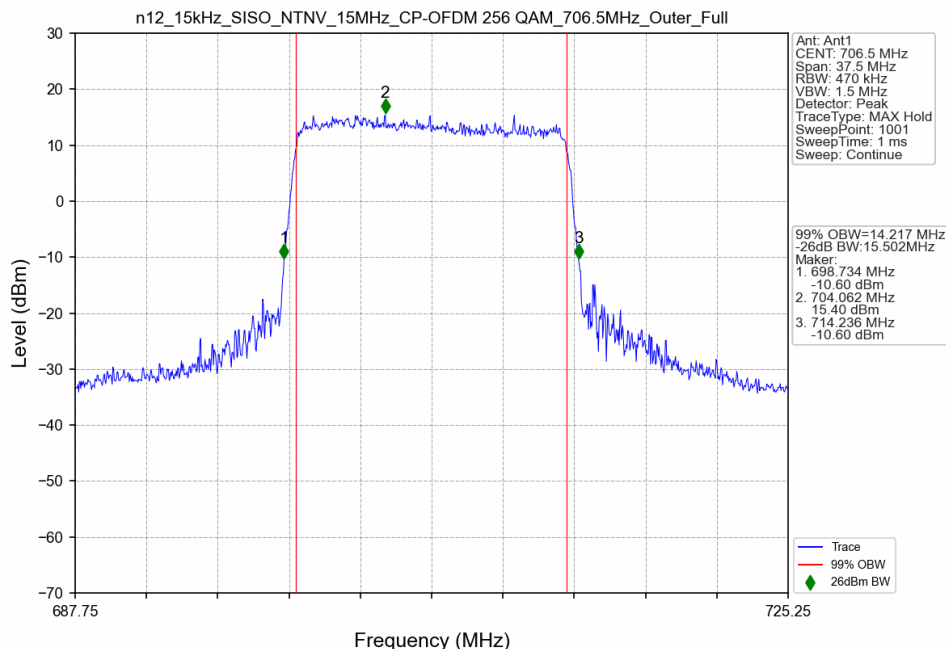


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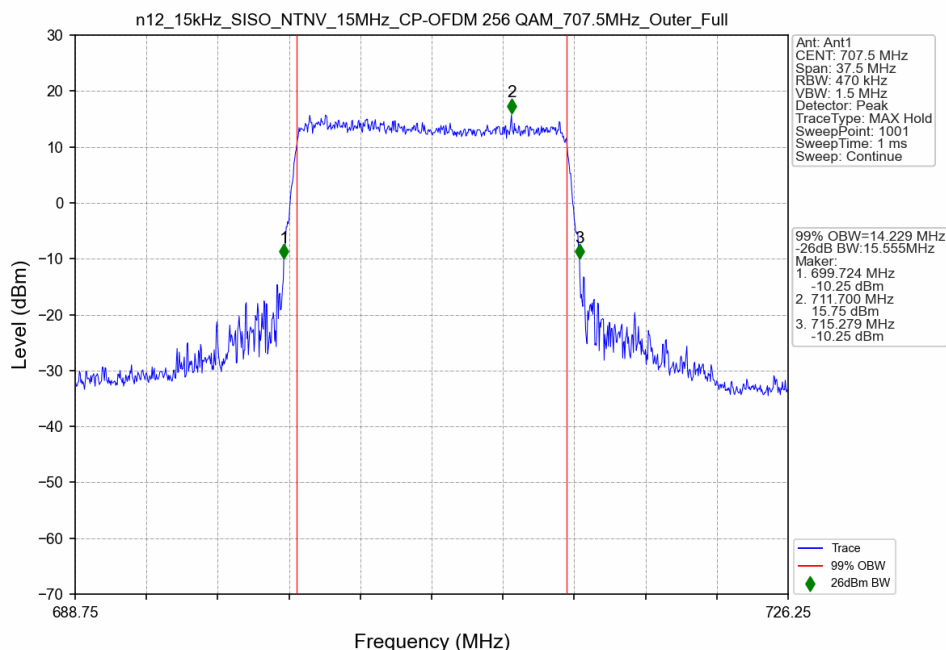
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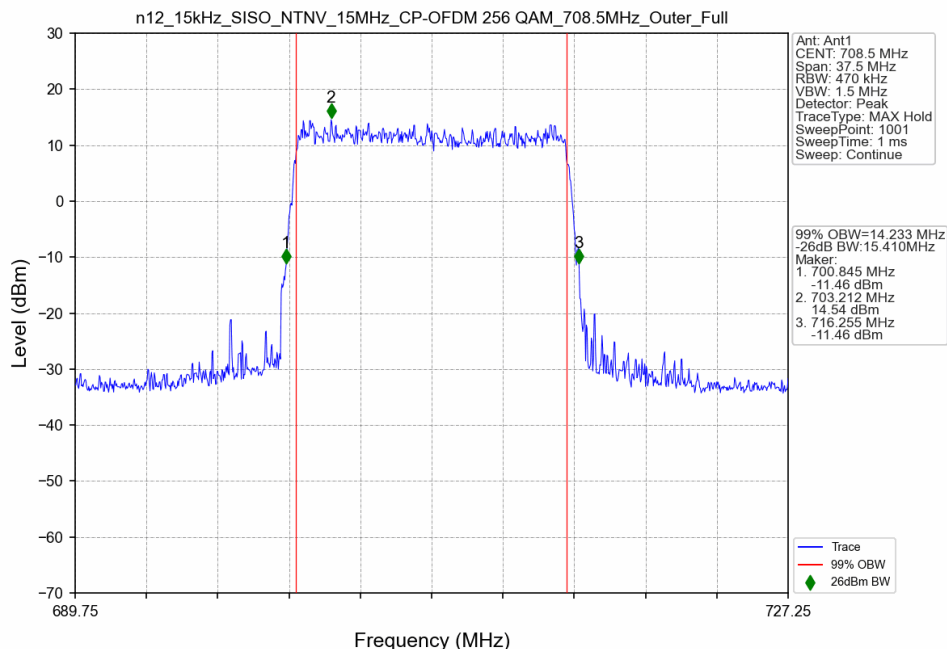
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4. Peak-Average Ratio

4.1 Test Result

4.1.1 15k_SISO_15MHz_NTNV

5G NR n12 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	4.17	/	/	<=13	Pass
	707.5	Outer_Full	4.22	/	/	<=13	Pass
	708.5	Outer_Full	4.22	/	/	<=13	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	4.55	/	/	<=13	Pass
	707.5	Outer_Full	4.51	/	/	<=13	Pass
	708.5	Outer_Full	4.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	5.49	/	/	<=13	Pass
	707.5	Outer_Full	5.51	/	/	<=13	Pass
	708.5	Outer_Full	5.48	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	706.5	Outer_Full	5.98	/	/	<=13	Pass
	707.5	Outer_Full	5.99	/	/	<=13	Pass
	708.5	Outer_Full	5.94	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	6.67	/	/	<=13	Pass
	707.5	Outer_Full	6.71	/	/	<=13	Pass
	708.5	Outer_Full	6.73	/	/	<=13	Pass
CP-OFDM QPSK	706.5	Outer_Full	6.65	/	/	<=13	Pass
	707.5	Outer_Full	6.54	/	/	<=13	Pass
	708.5	Outer_Full	6.60	/	/	<=13	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	6.60	/	/	<=13	Pass
	707.5	Outer_Full	6.56	/	/	<=13	Pass
	708.5	Outer_Full	6.59	/	/	<=13	Pass
CP-OFDM 64 QAM	706.5	Outer_Full	7.18	/	/	<=13	Pass
	707.5	Outer_Full	7.16	/	/	<=13	Pass
	708.5	Outer_Full	7.15	/	/	<=13	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	8.49	/	/	<=13	Pass
	707.5	Outer_Full	11.47	/	/	<=13	Pass
	708.5	Outer_Full	8.54	/	/	<=13	Pass





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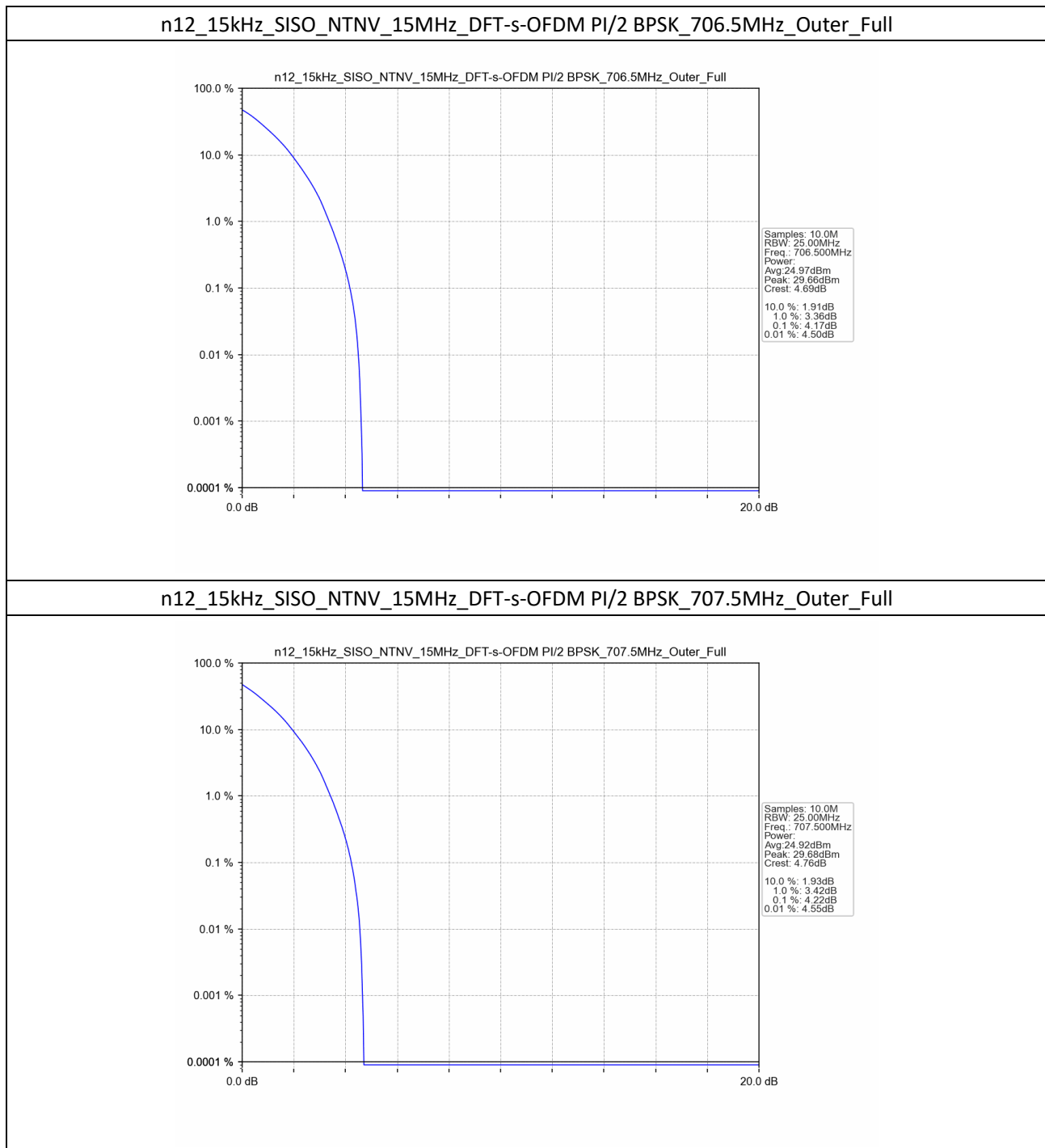
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4.2 Test Graph

4.2.1 15k_SISO_15MHz_NTNV



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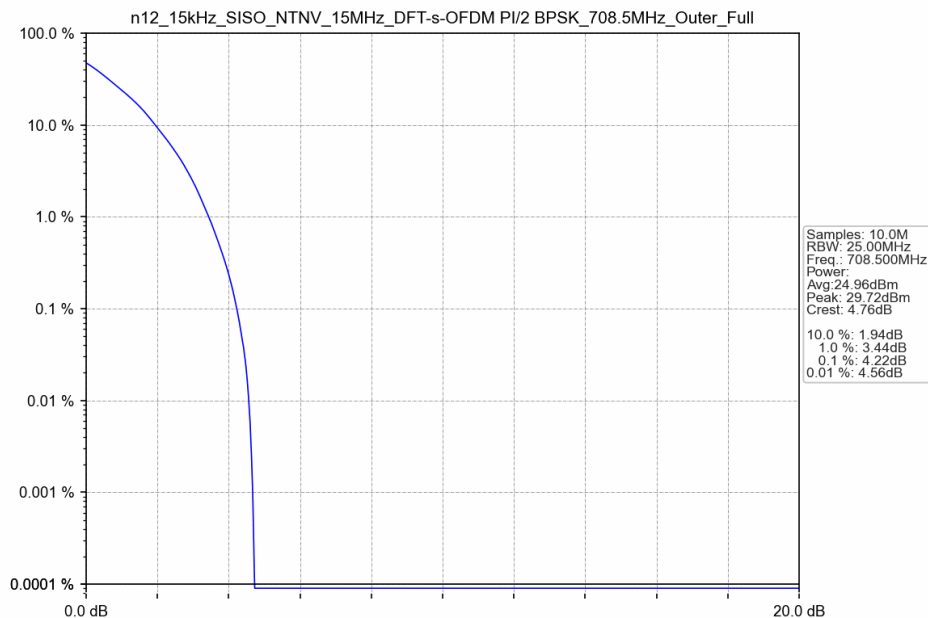
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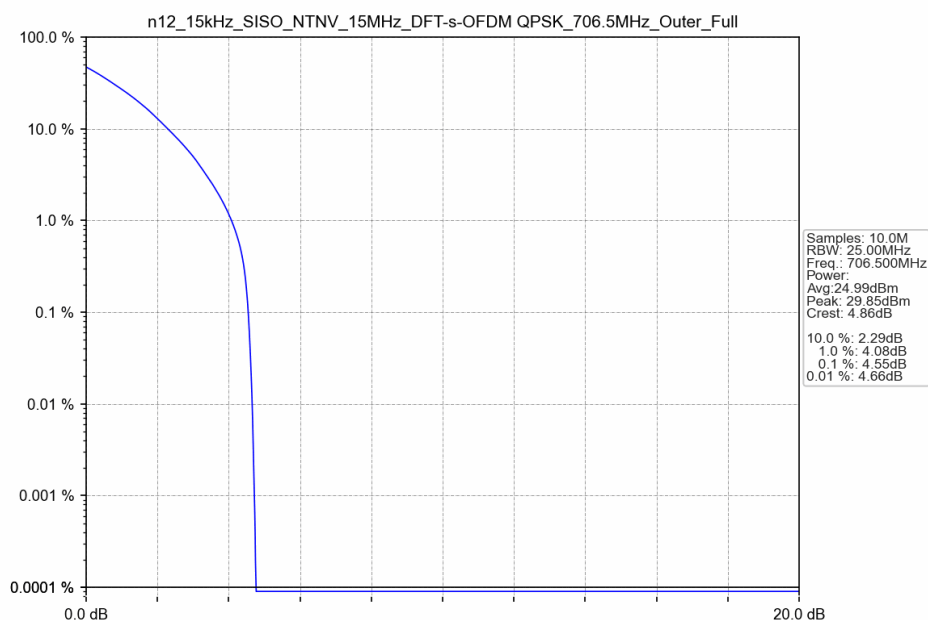
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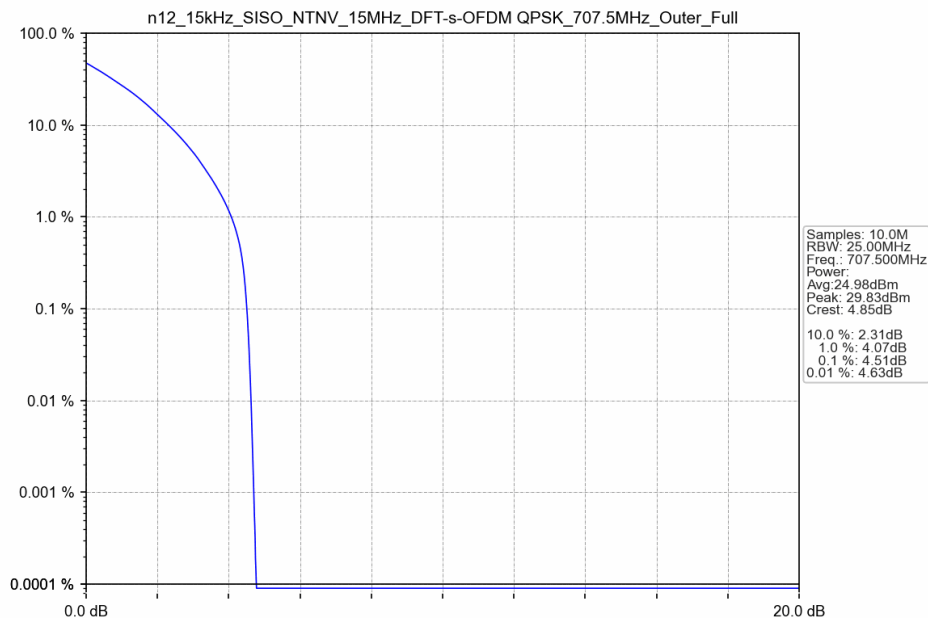


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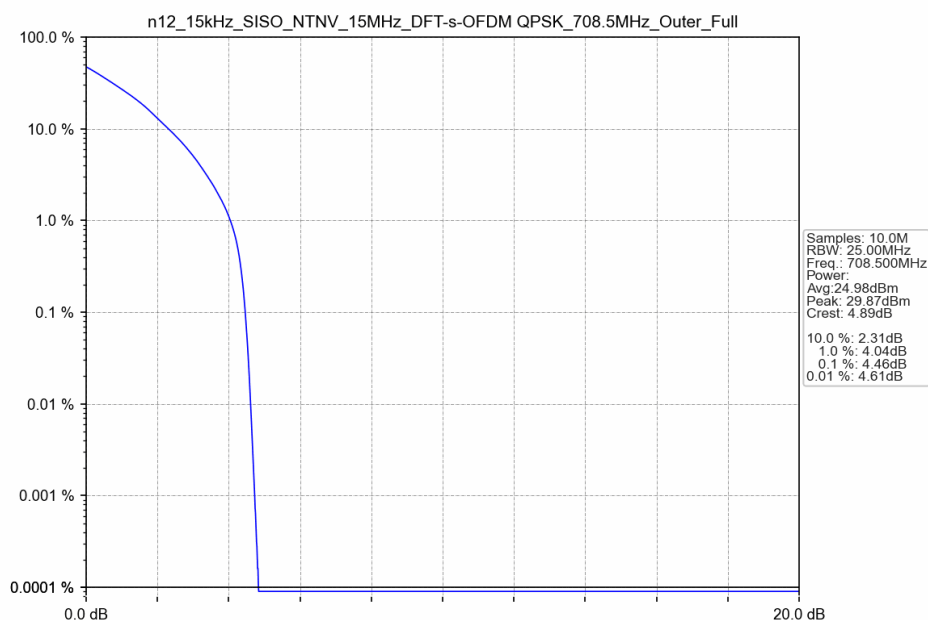
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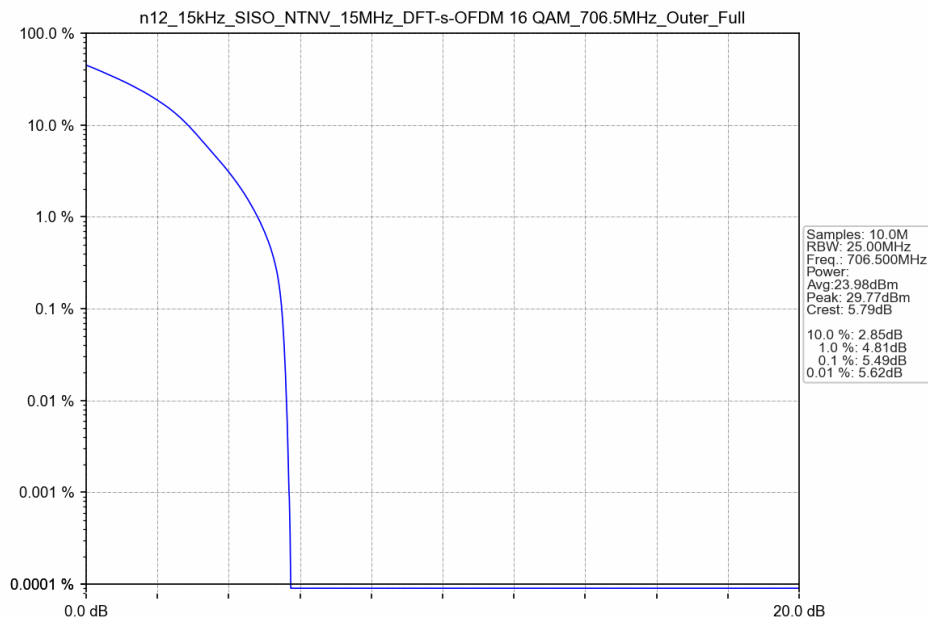


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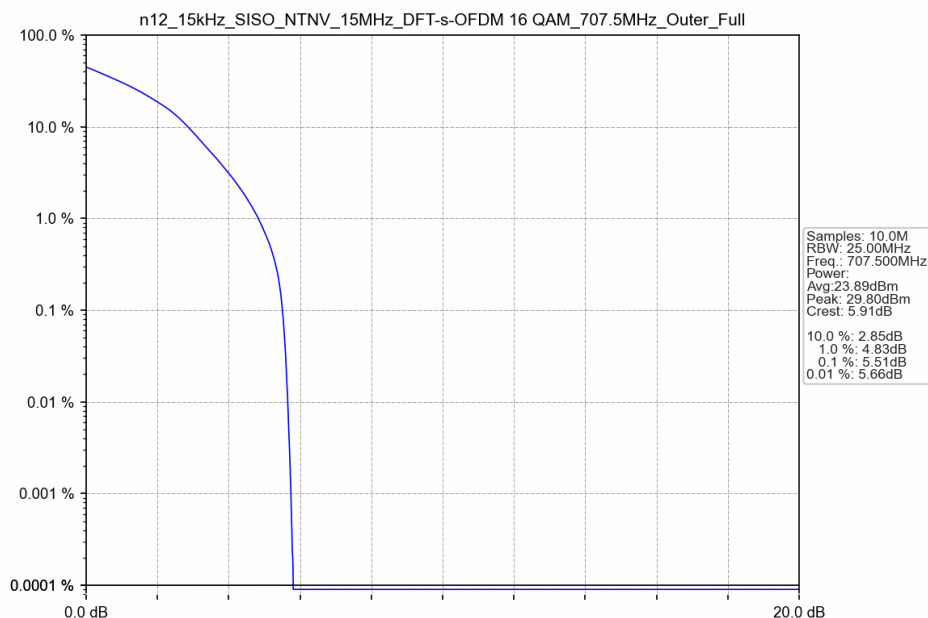
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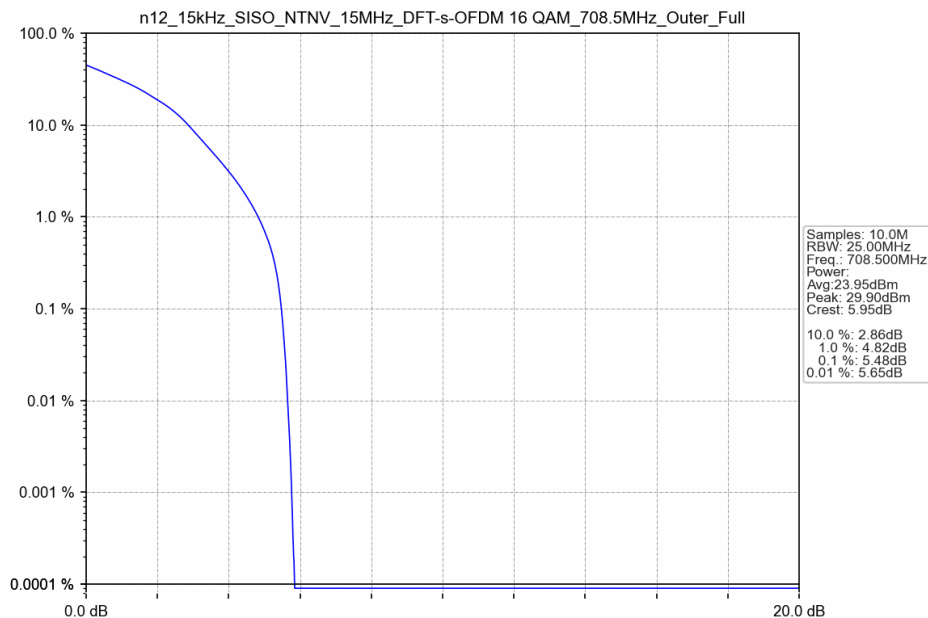


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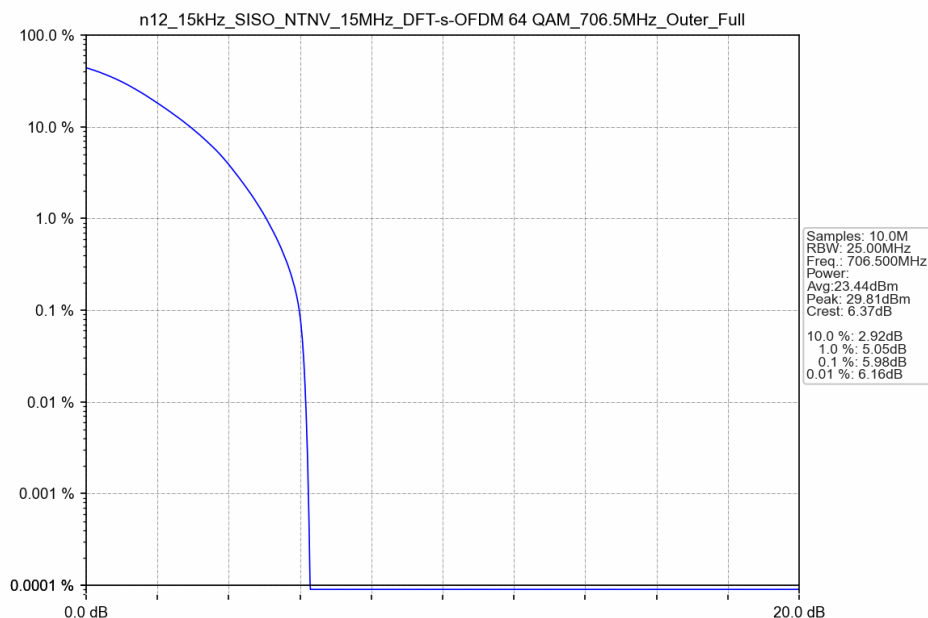
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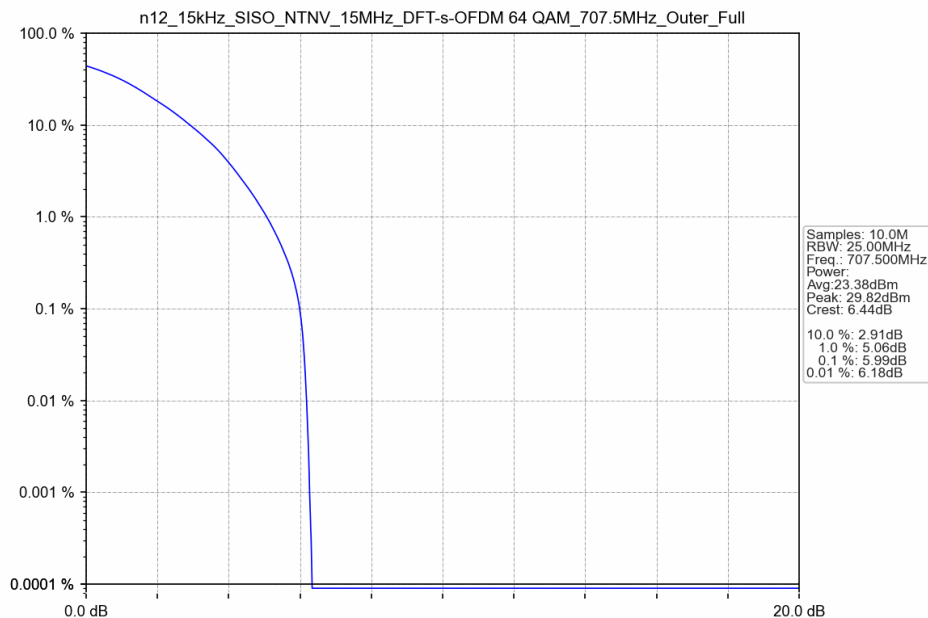


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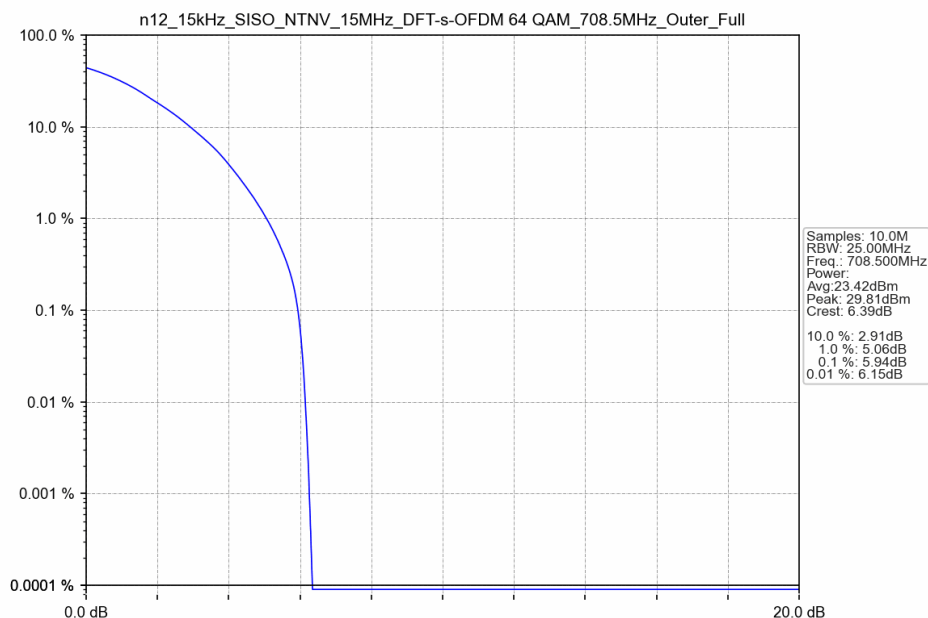
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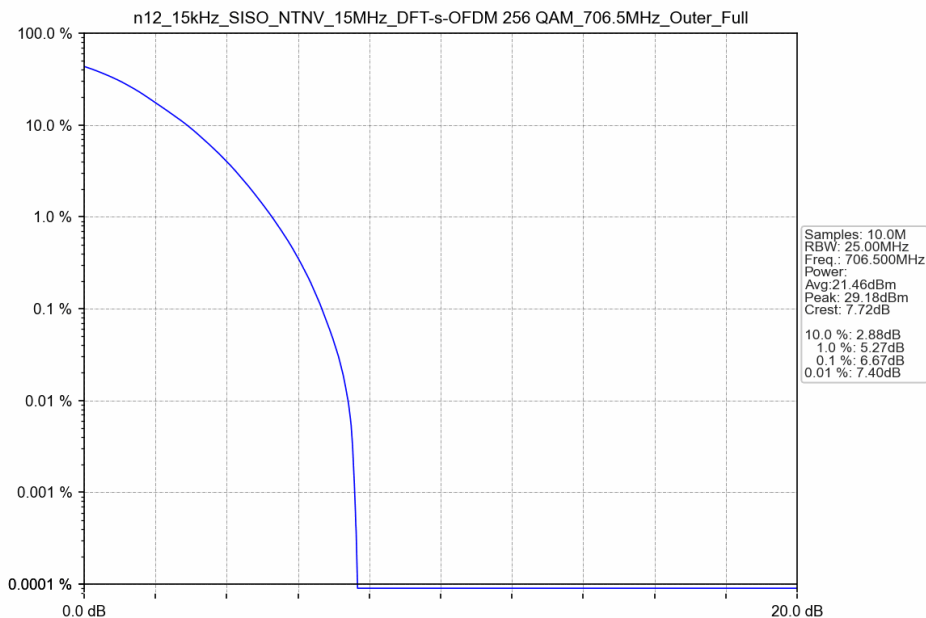


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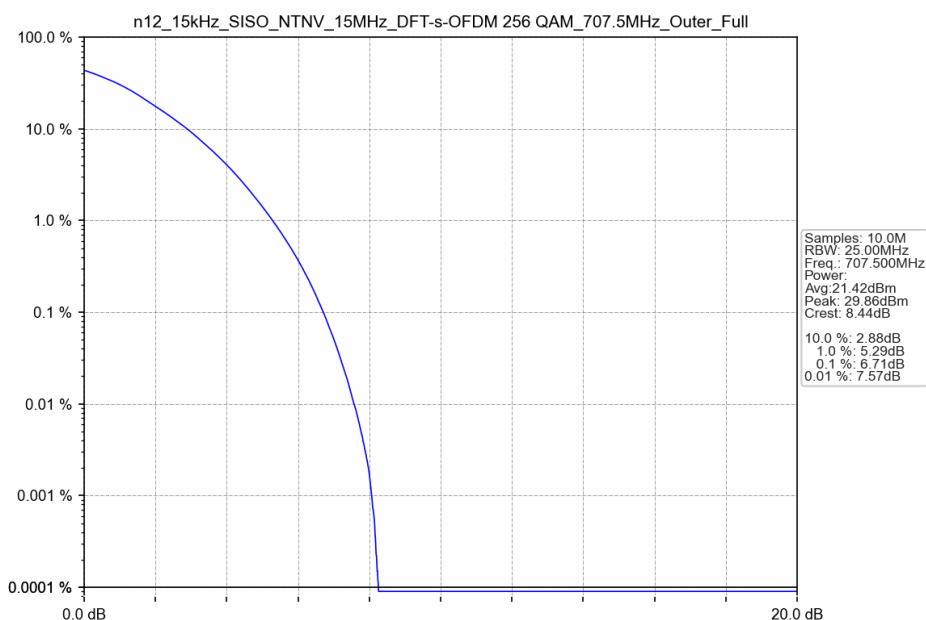
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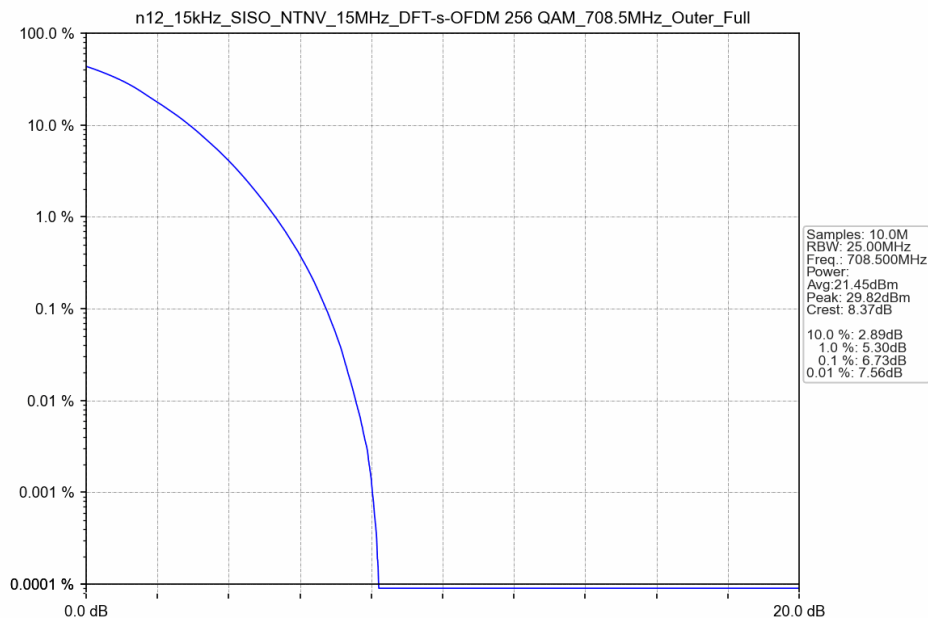


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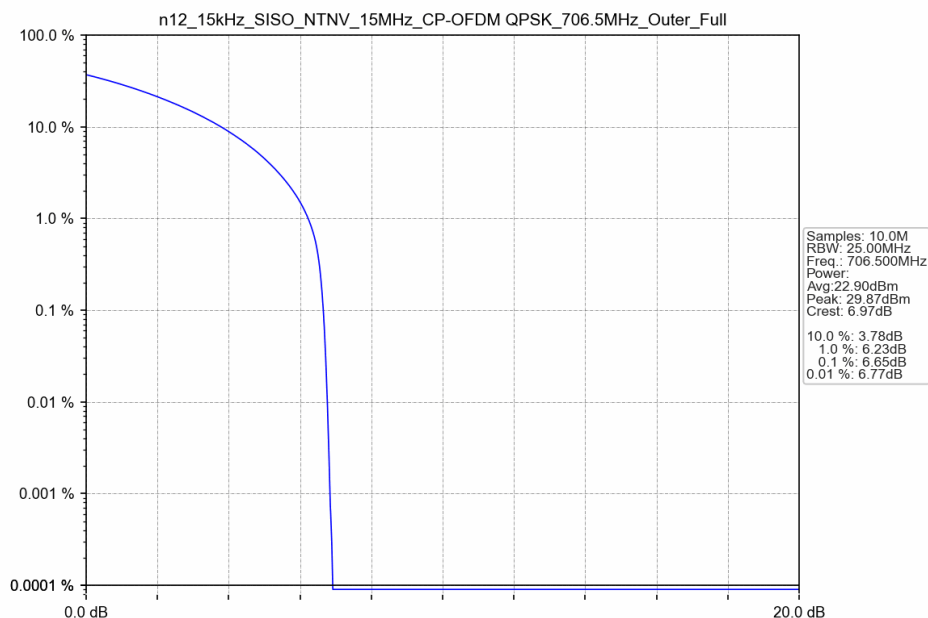
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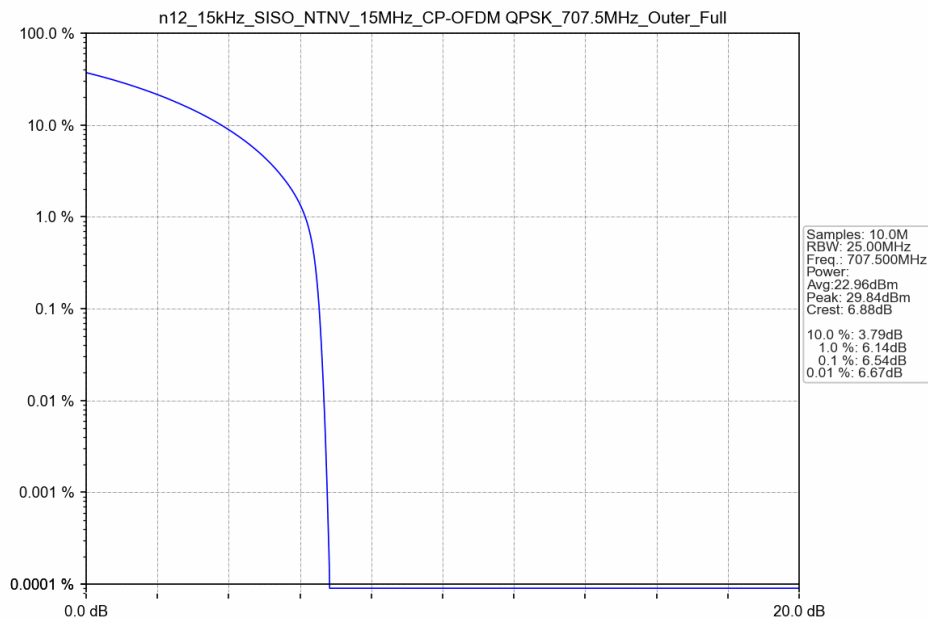


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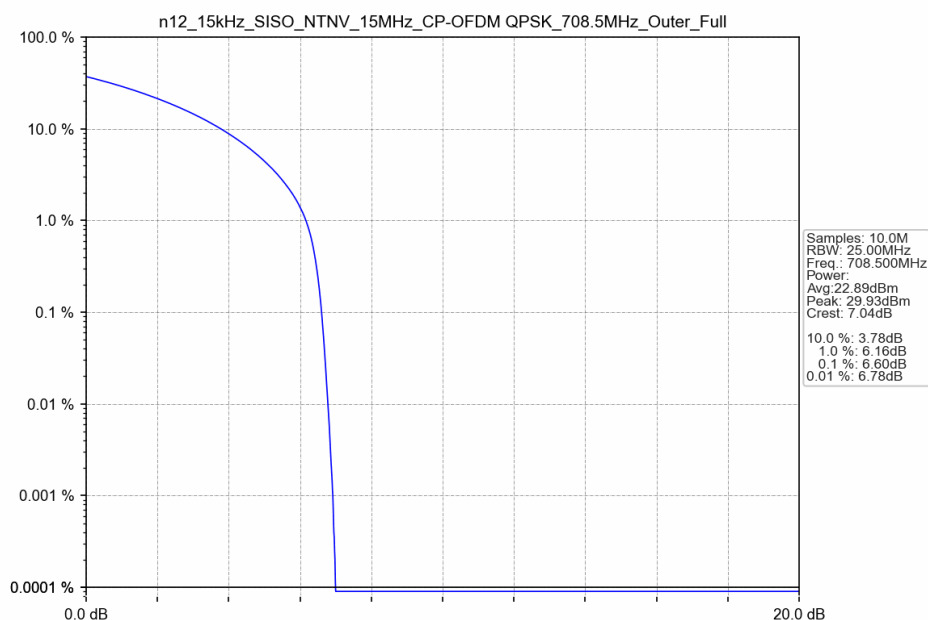
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_707.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_708.5MHz_Outer_Full

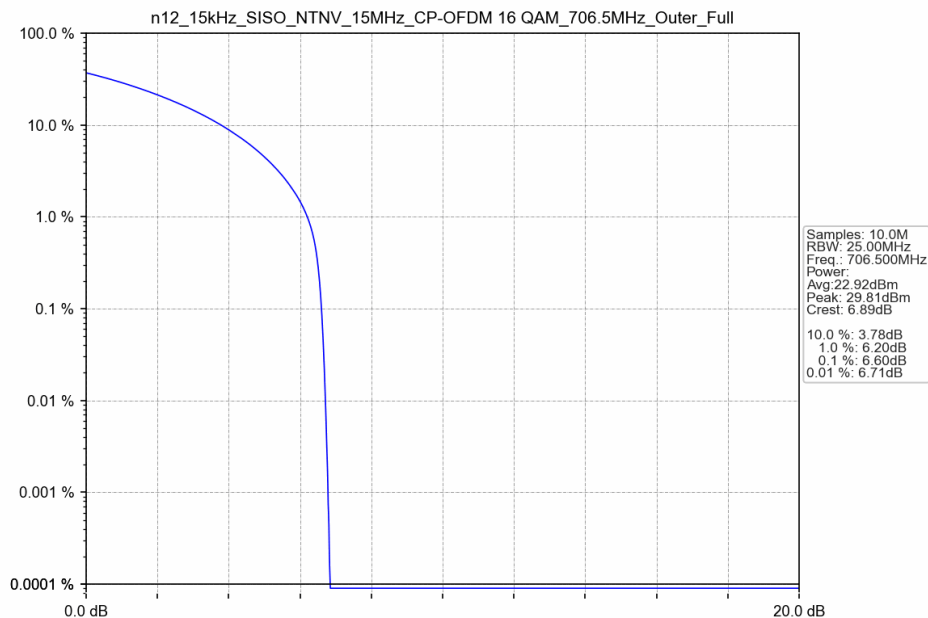


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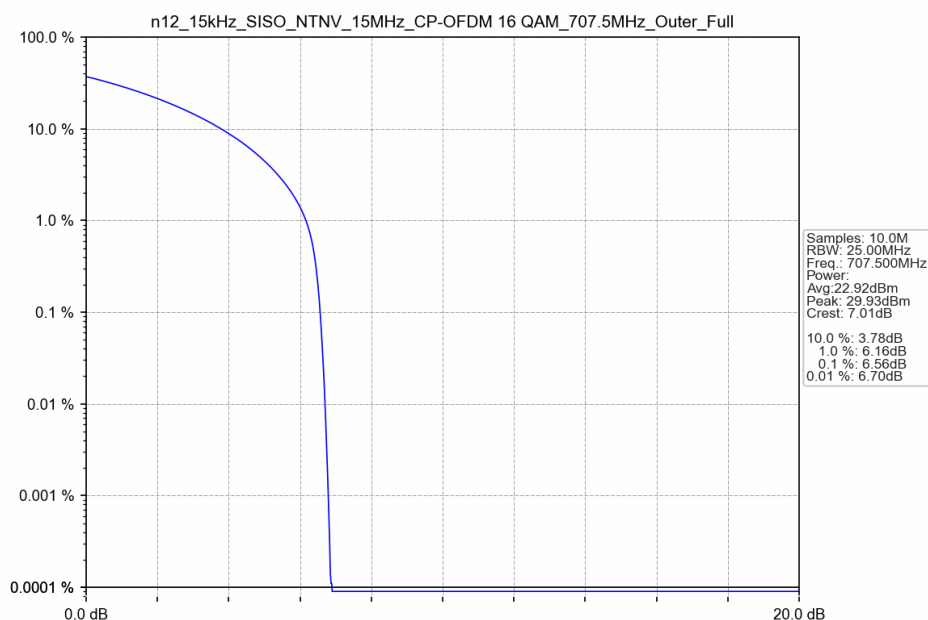
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_706.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_707.5MHz_Outer_Full

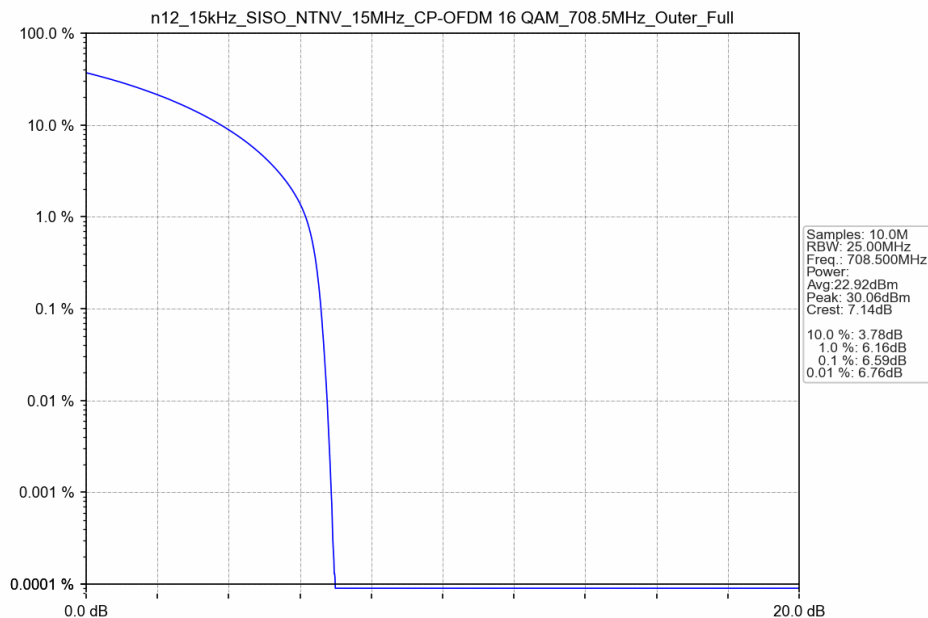


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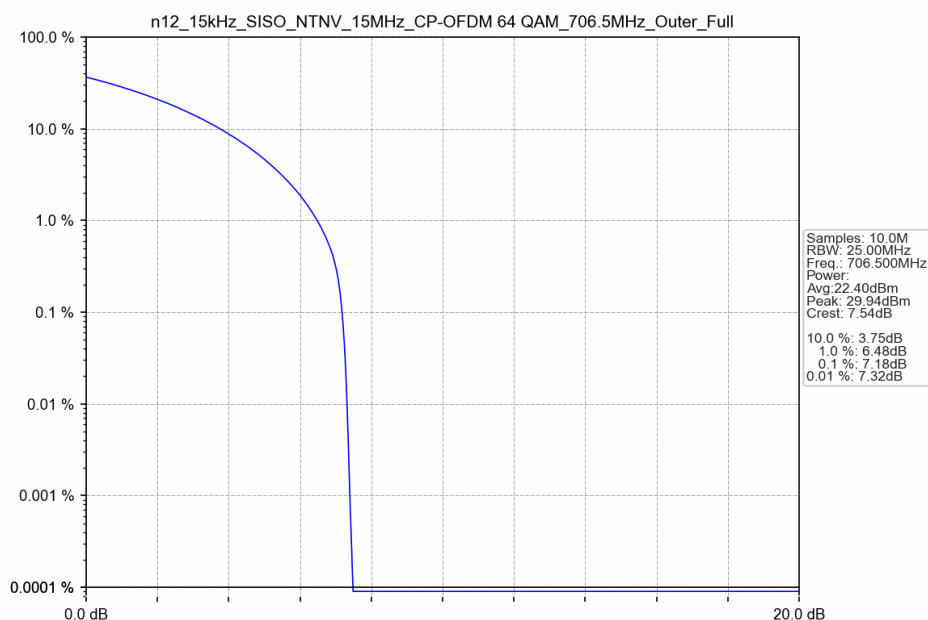
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_708.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_706.5MHz_Outer_Full

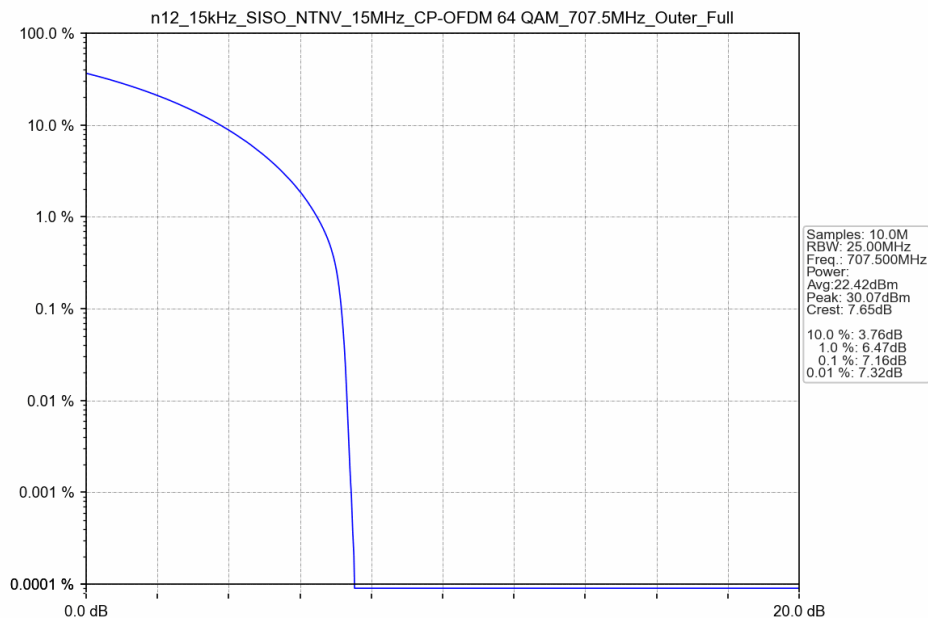


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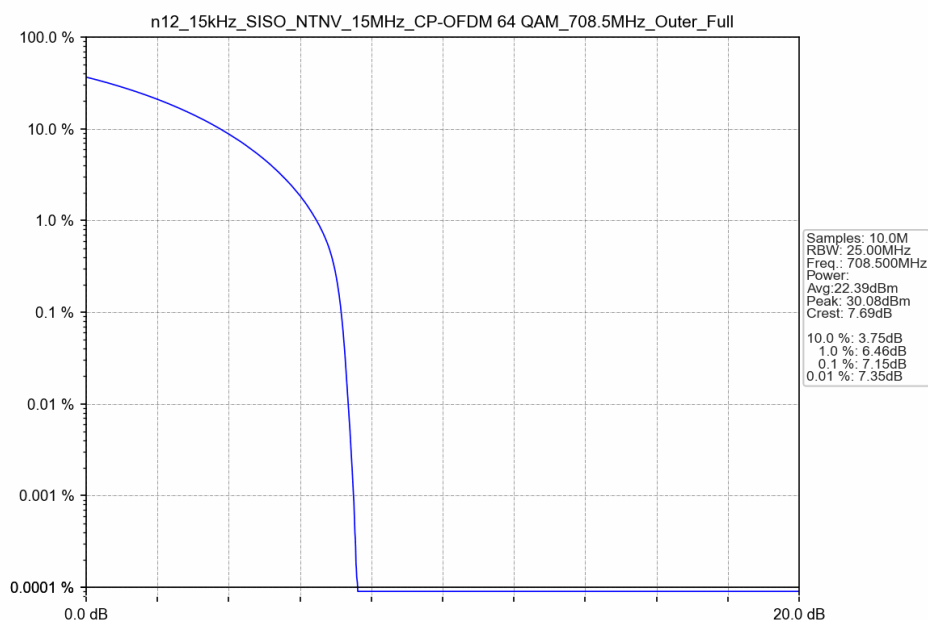
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_707.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_708.5MHz_Outer_Full

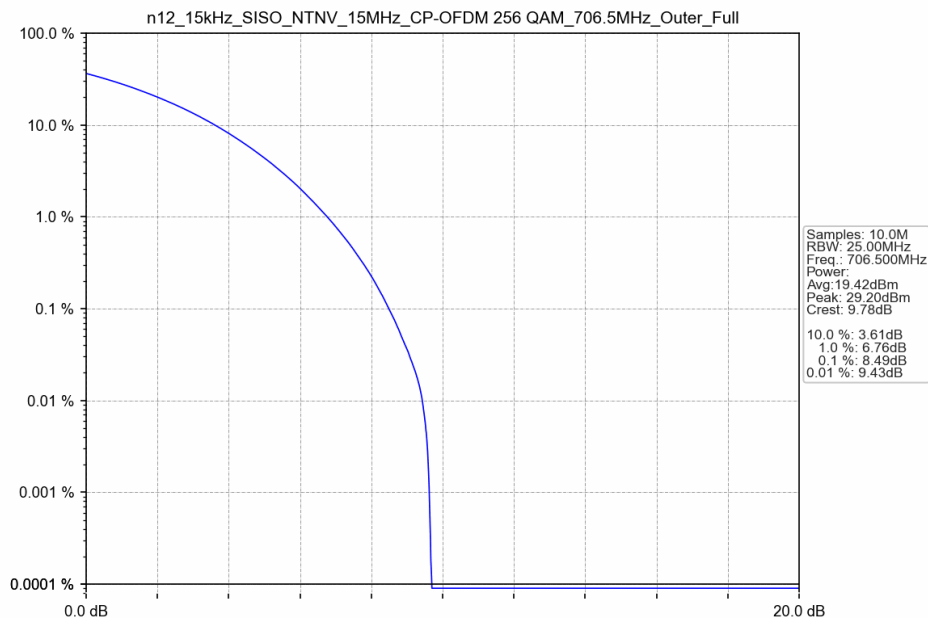


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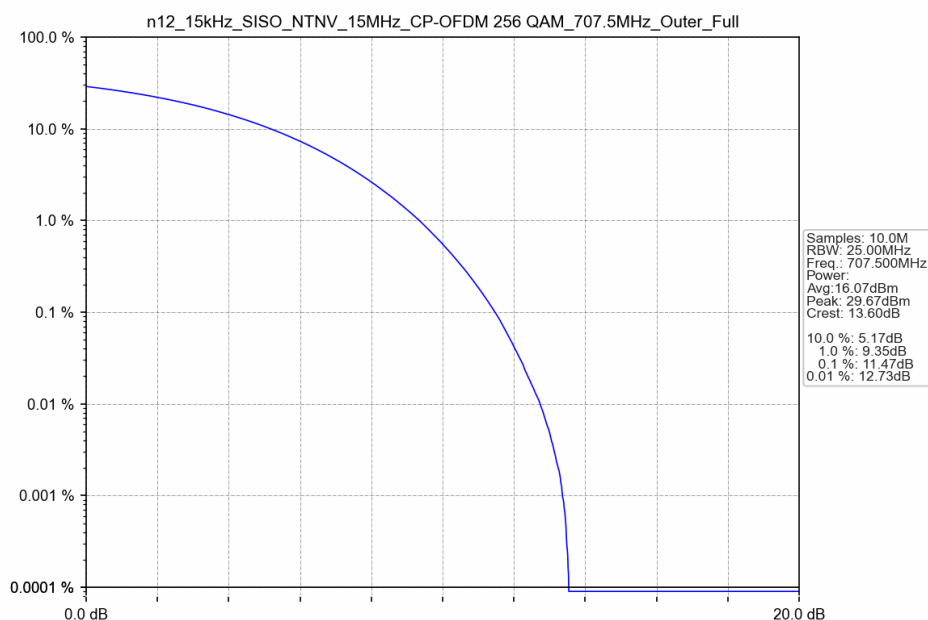
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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_706.5MHz_Outer_Full



n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_707.5MHz_Outer_Full

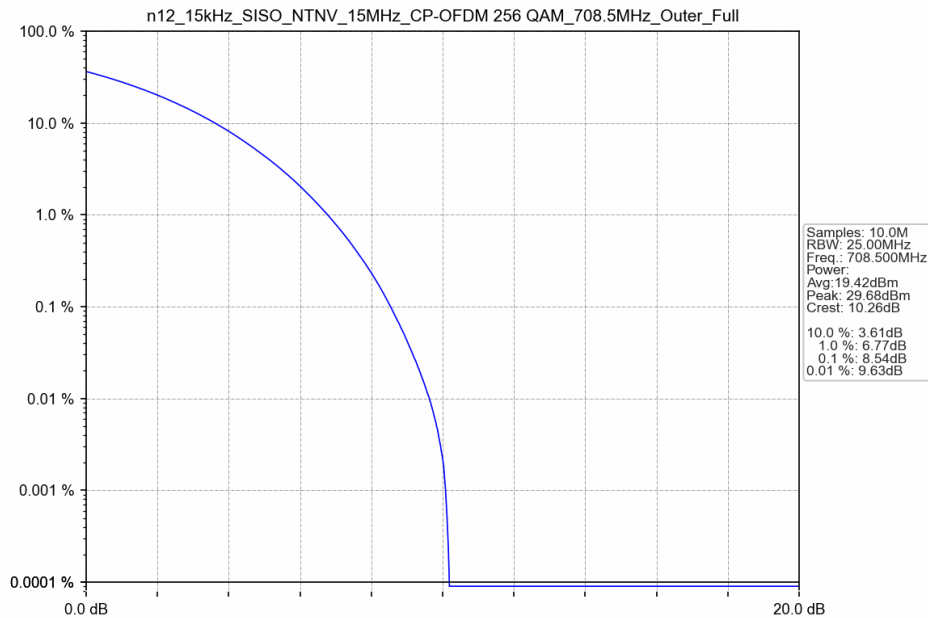


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n12_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_708.5MHz_Outer_Full



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5. Spurious Emission

5.1 Test Result

5.1.1 15k_SISO_5MHz_NTNV

5G NR n12 SCS=15kHz SISO 5MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	701.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	707.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		713.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	701.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	707.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		713.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	701.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	707.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		713.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

5.1.2 15k_SISO_10MHz_NTNV

5G NR n12 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2	704	Edge 1RB Left	Refer To Test Graph				Pass



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BPSK		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
	711	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
DFT-s-OFDM QPSK	704	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
	711	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
CP-OFDM QPSK	704	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
	711	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass

5.1.3 15k_SISO_15MHz_NTNV

5G NR n12 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	707.5	Edge_1RB_Left	Refer To Test Graph				Pass
	708.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	706.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	707.5	Edge_1RB_Left	Refer To Test Graph				Pass
	708.5	Edge_1RB_Right	Refer To Test Graph				Pass



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CP-OFDM QPSK	706.5	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	707.5	Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
	708.5	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass



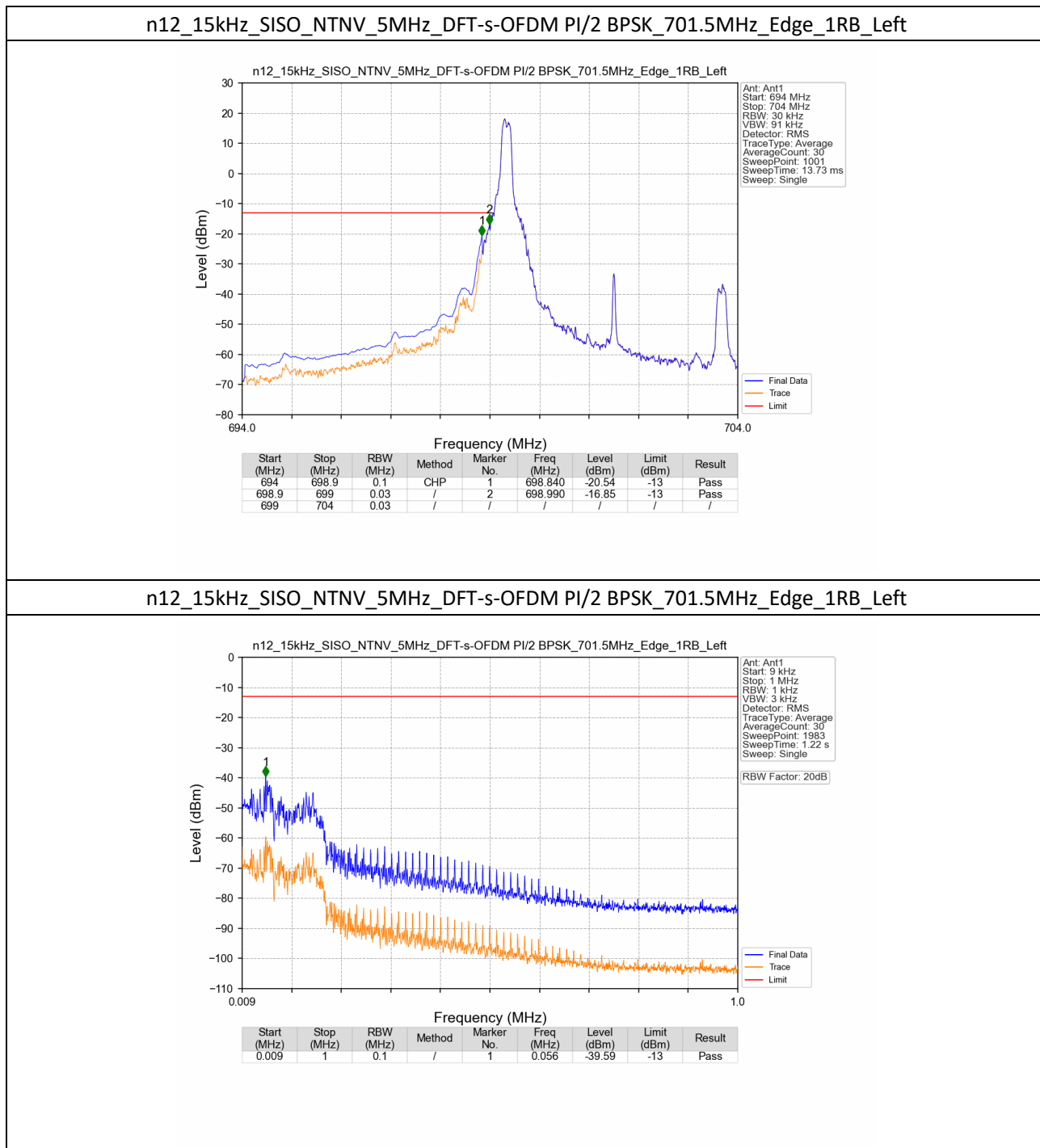
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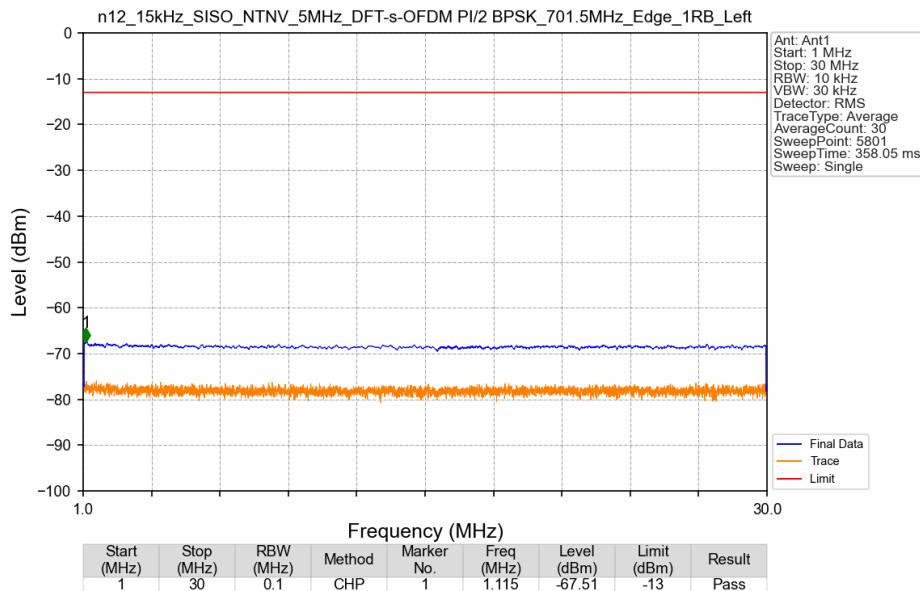
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5.2 Test Graph

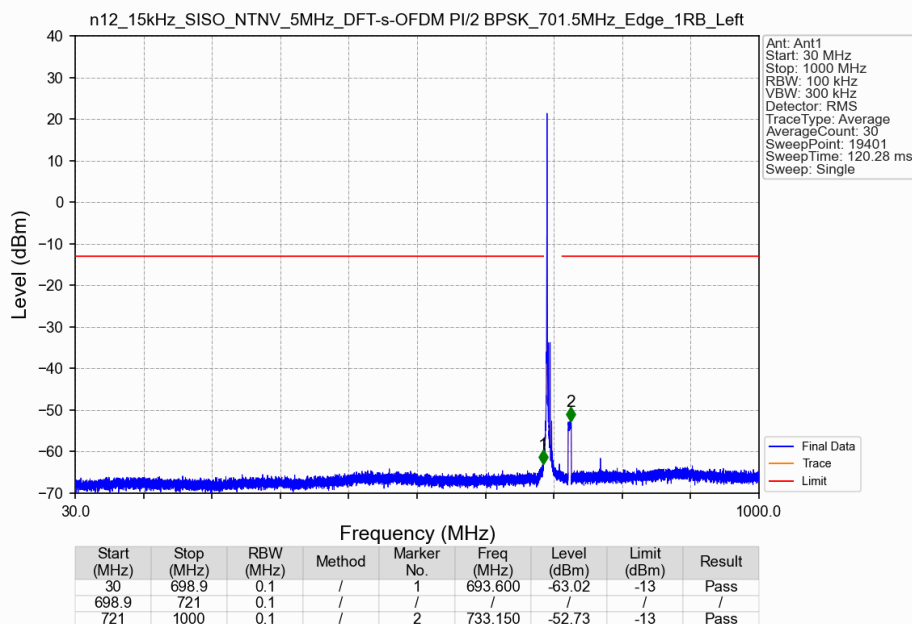
5.2.1 15k_SISO_5MHz_NTNV



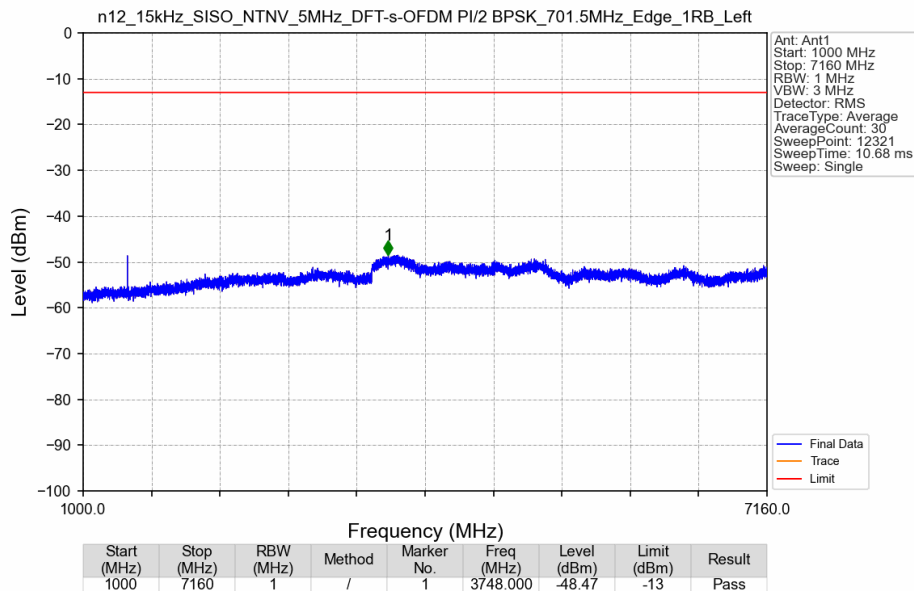
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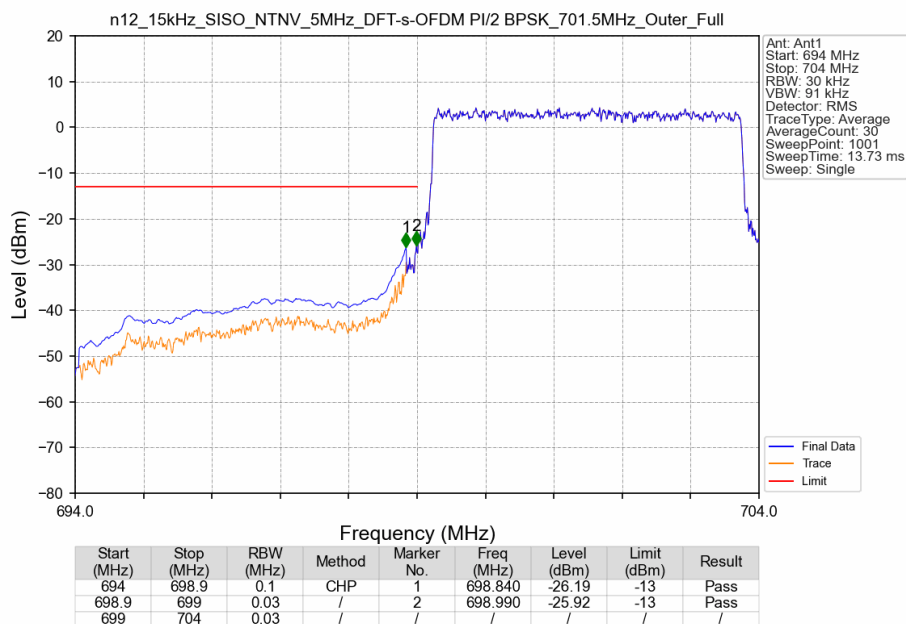
n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Outer_Full

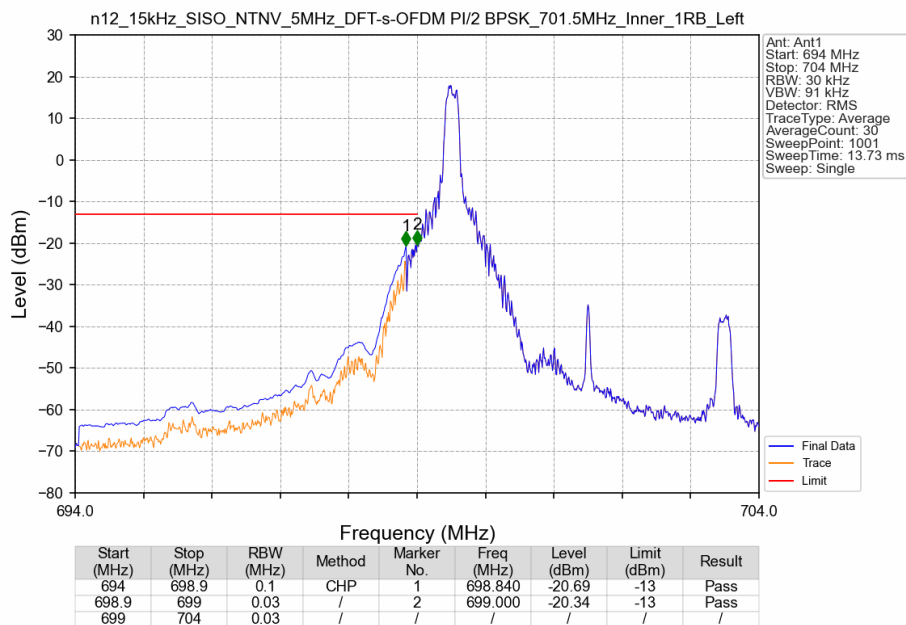


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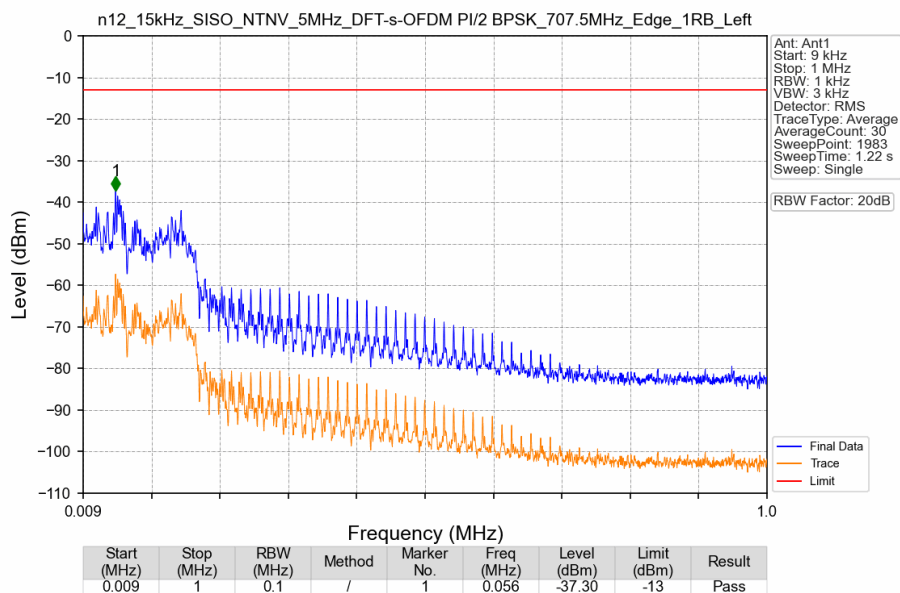
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_701.5MHz_Inner_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left

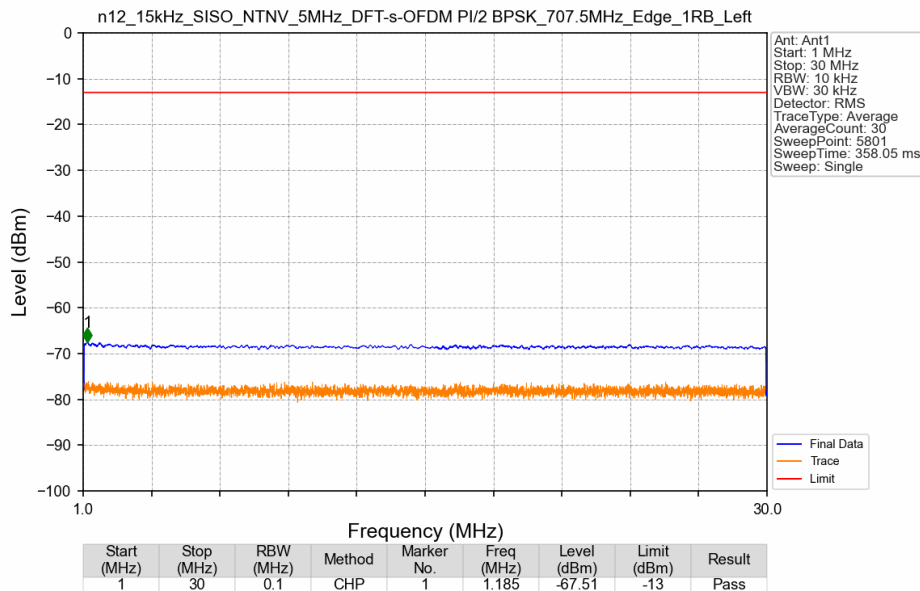


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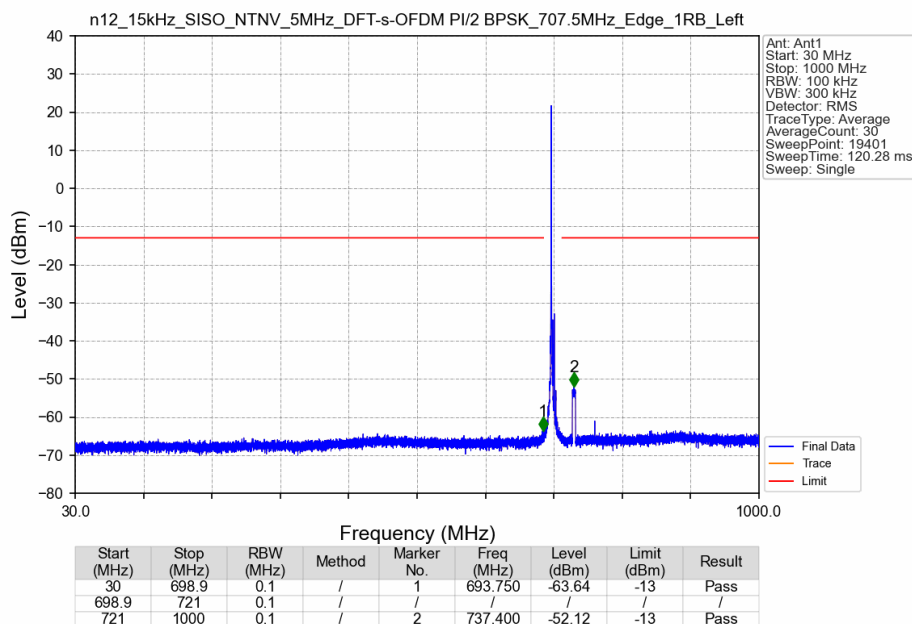
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left

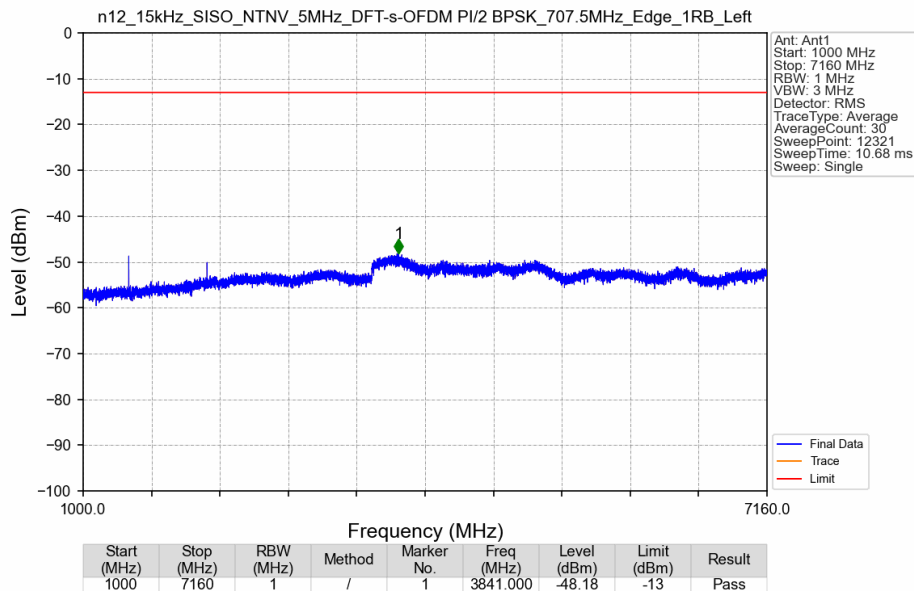


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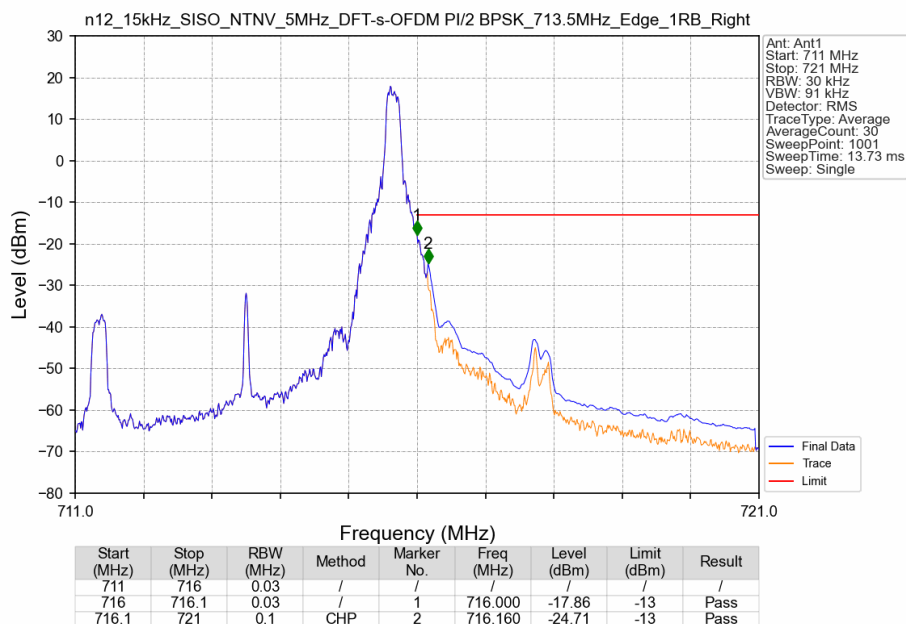
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n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_707.5MHz_Edge_1RB_Left



n12_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_713.5MHz_Edge_1RB_Right



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