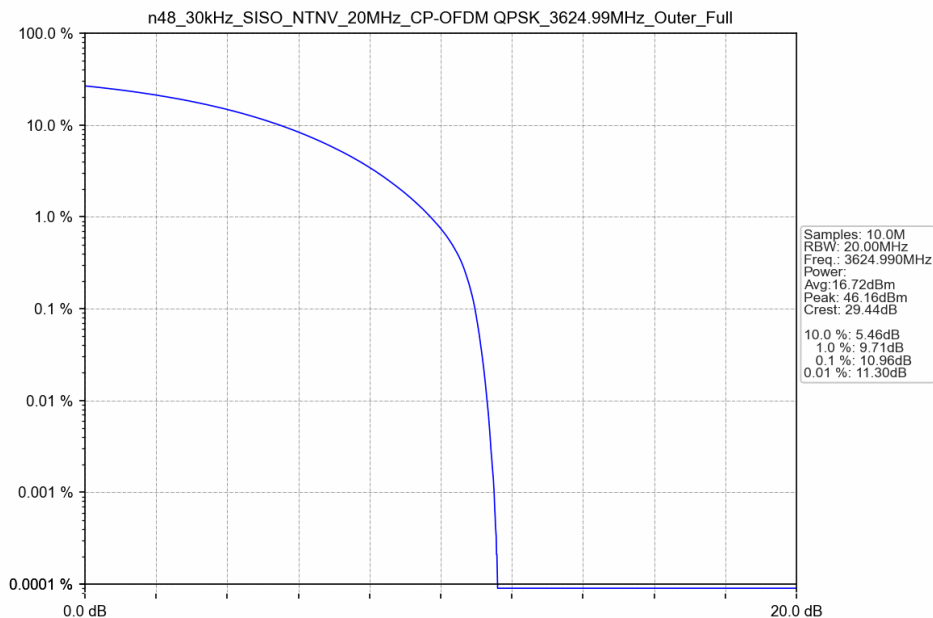
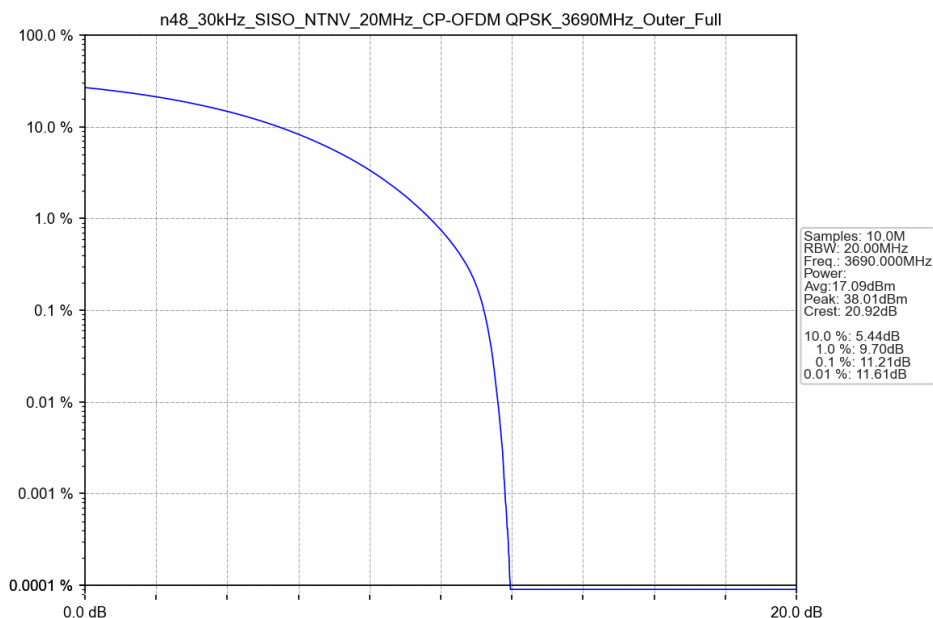


n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3690MHz\_Outer\_Full

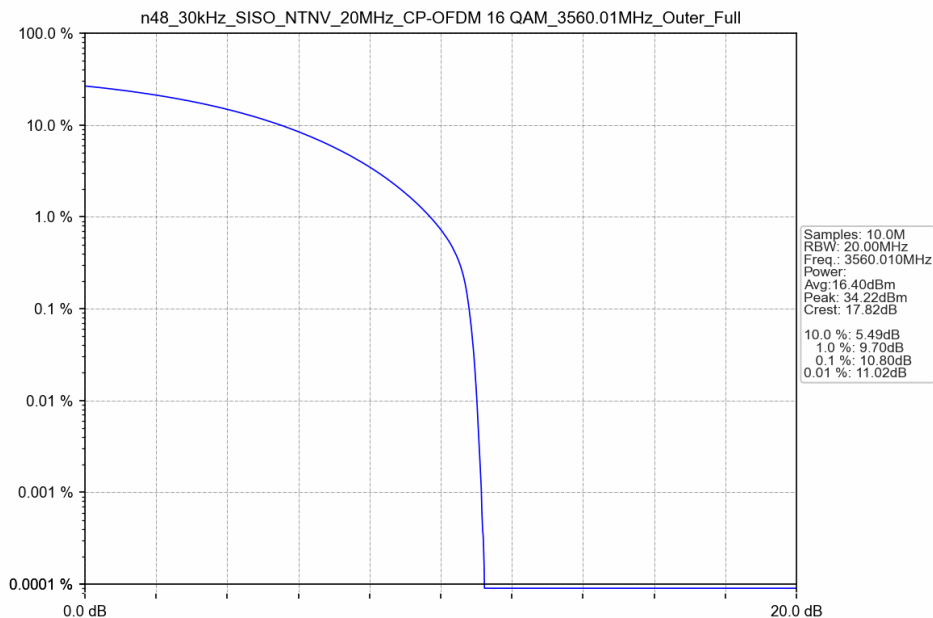


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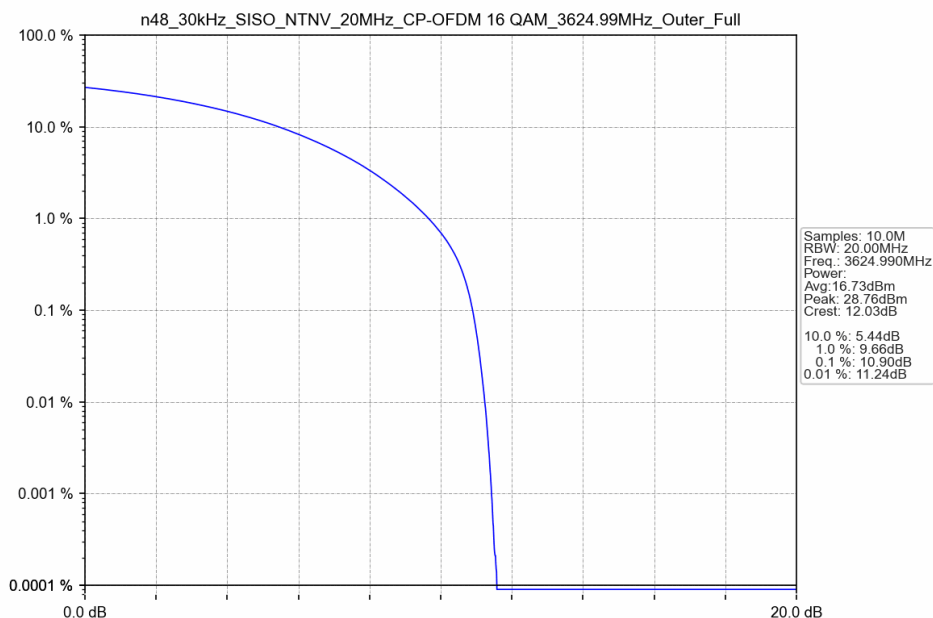
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n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3560.01MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

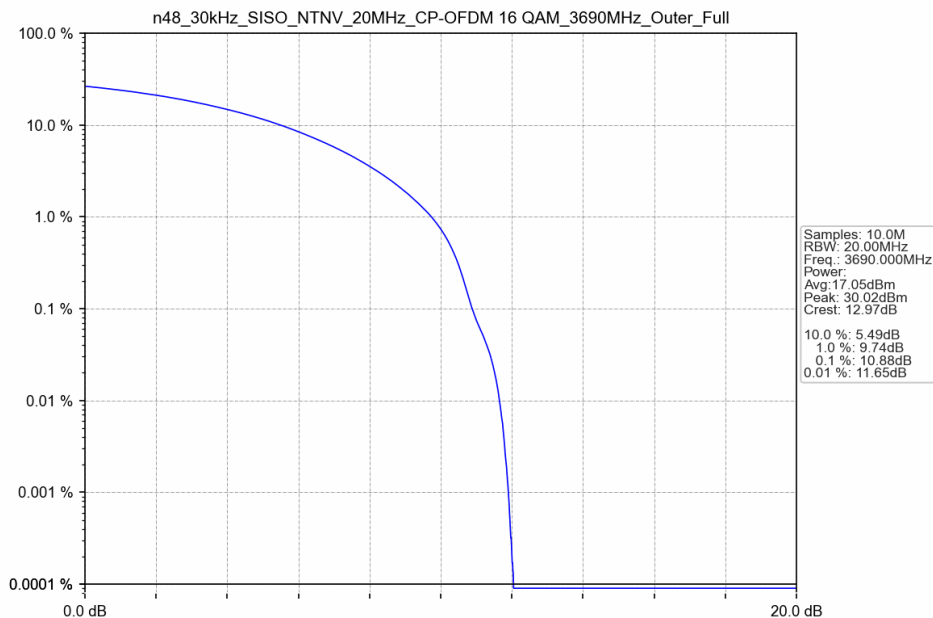


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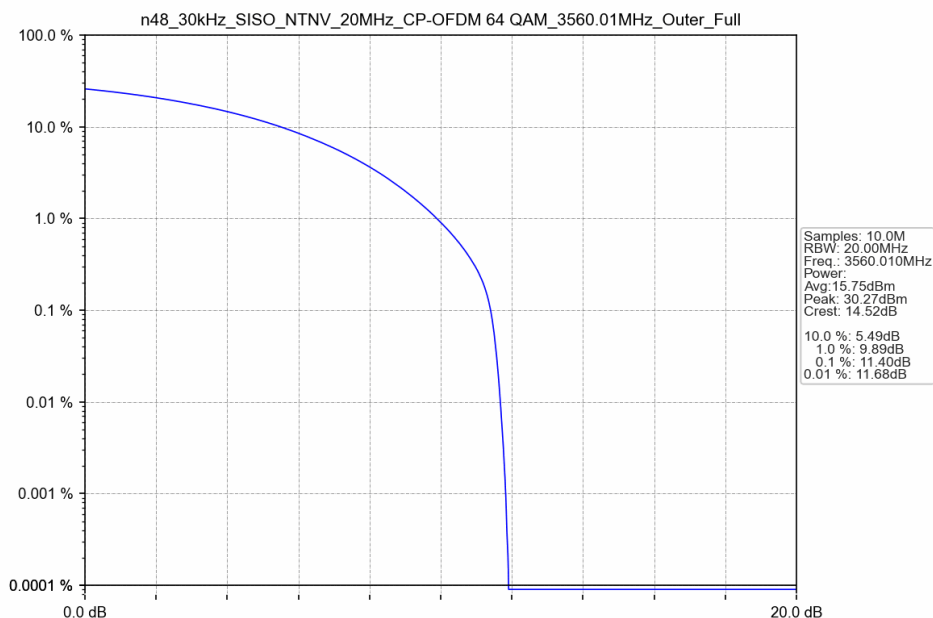
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n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3690MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3560.01MHz\_Outer\_Full

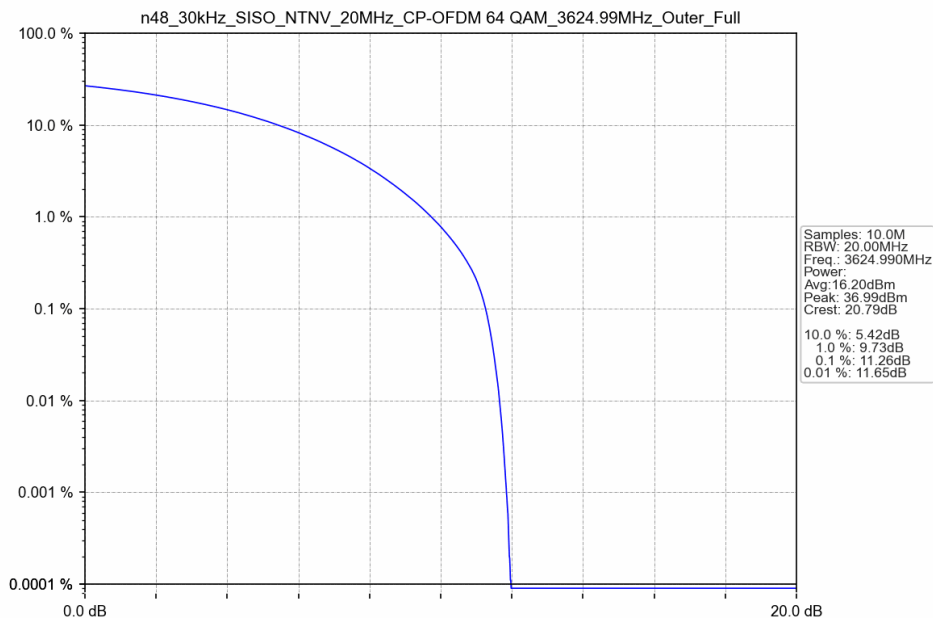


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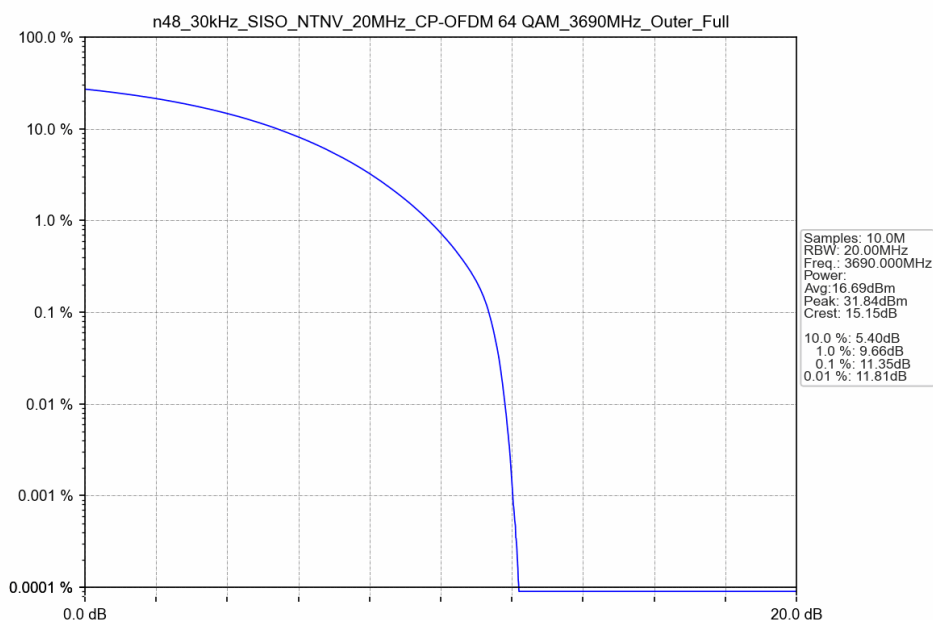
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n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3690MHz\_Outer\_Full

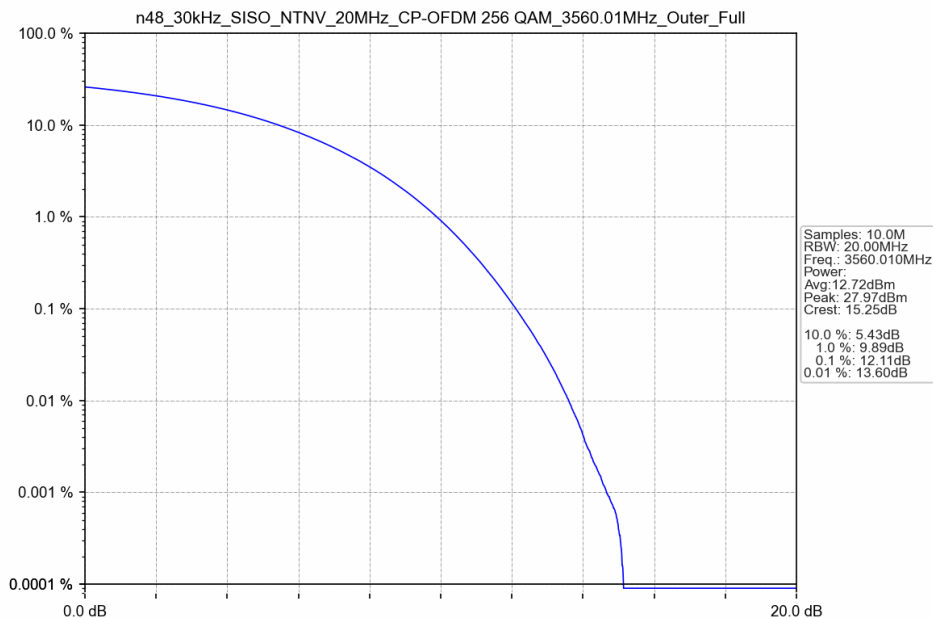


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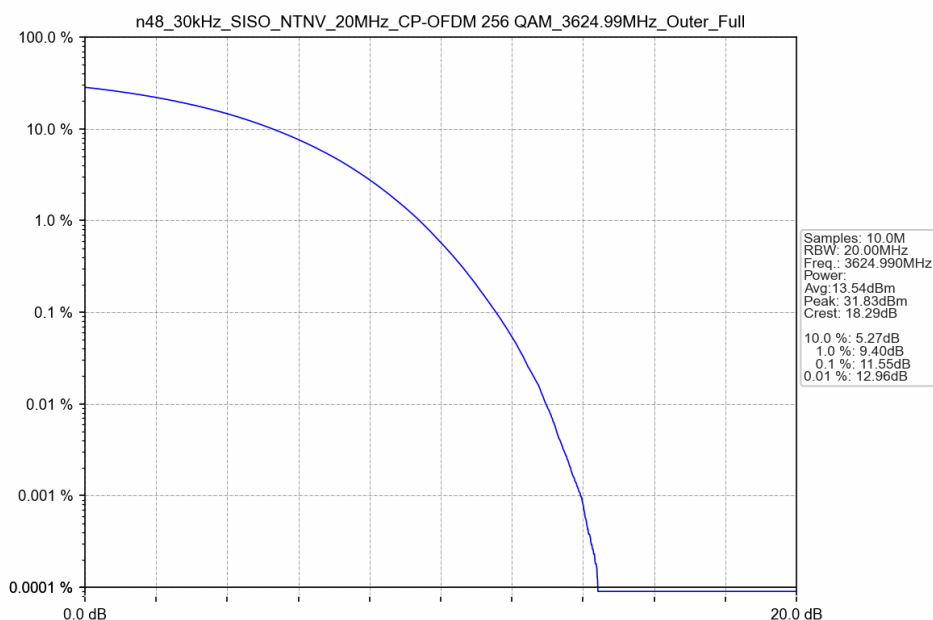
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n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3560.01MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



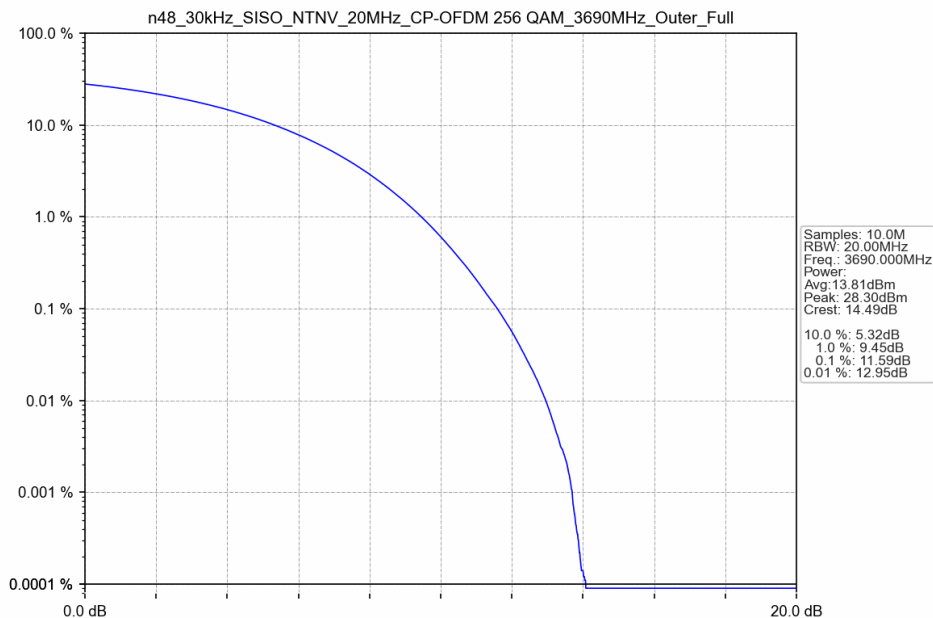
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### n48\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3690MHz\_Outer\_Full

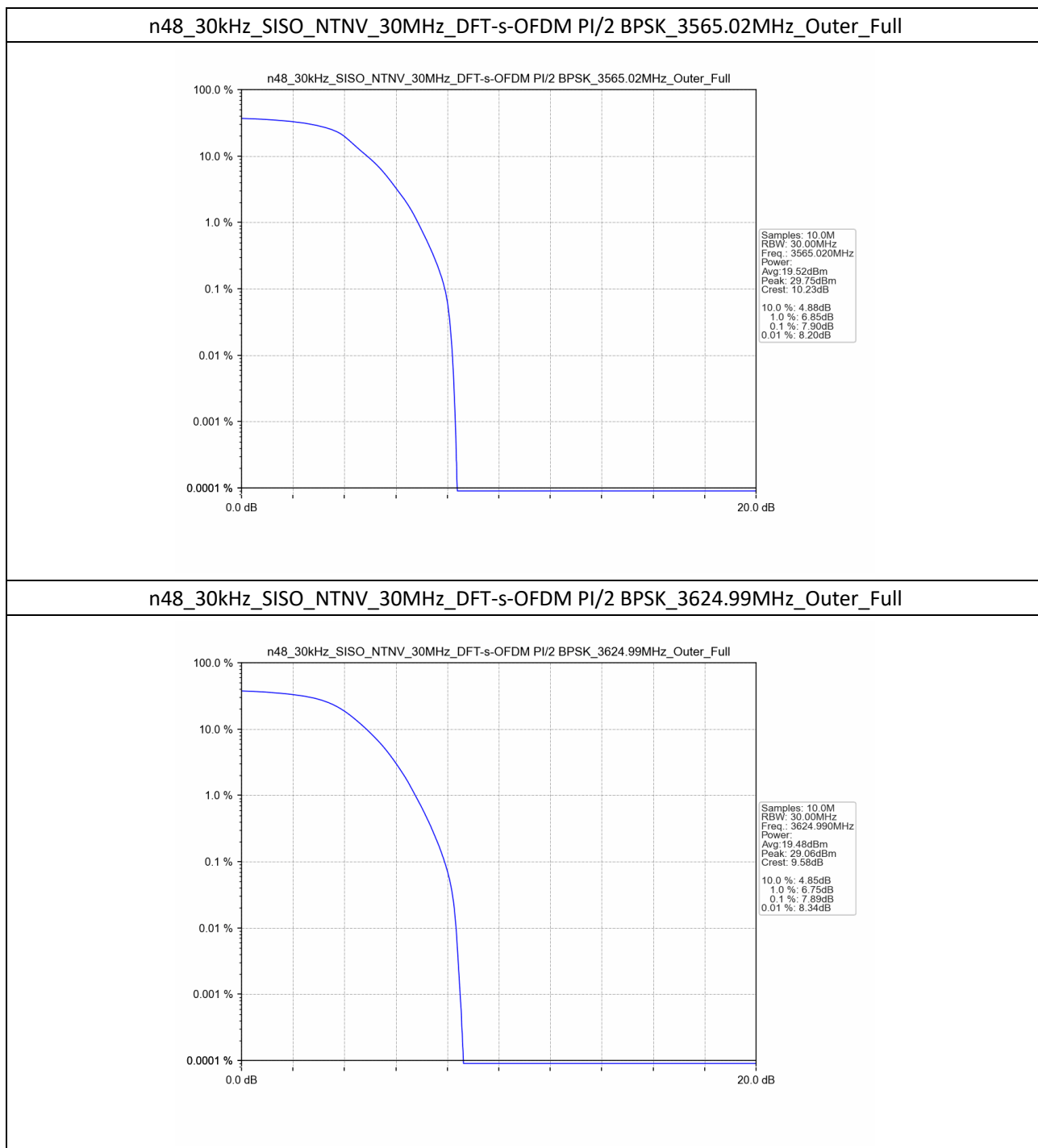


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### 4.2.3 30k\_SISO\_30MHz\_NTNV

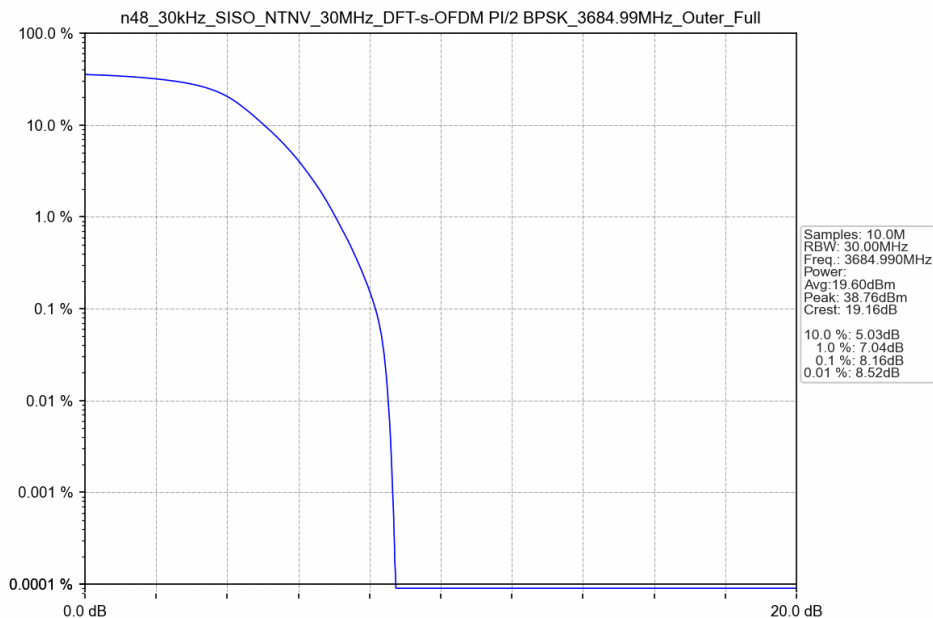


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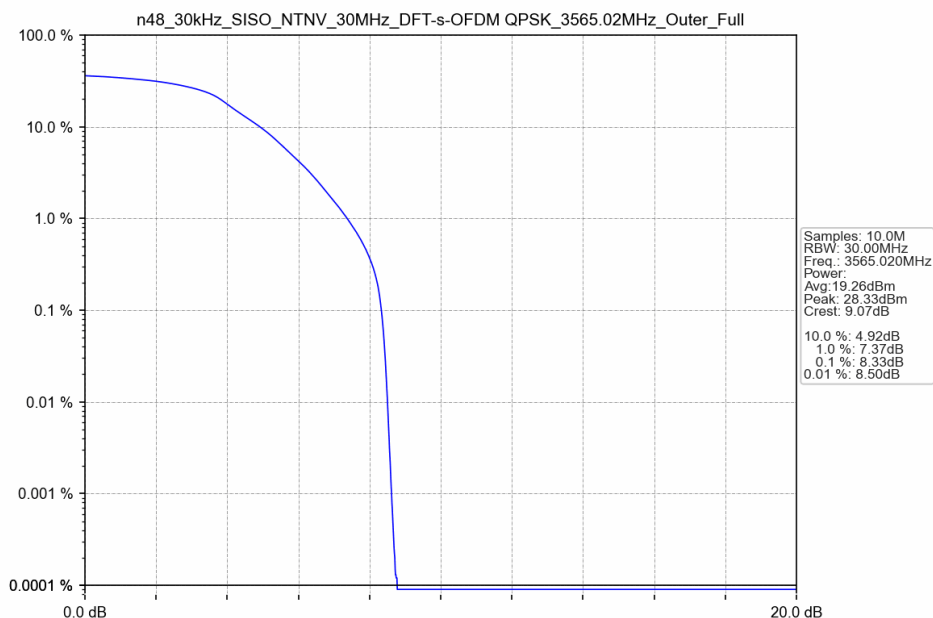
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3684.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3565.02MHz\_Outer\_Full



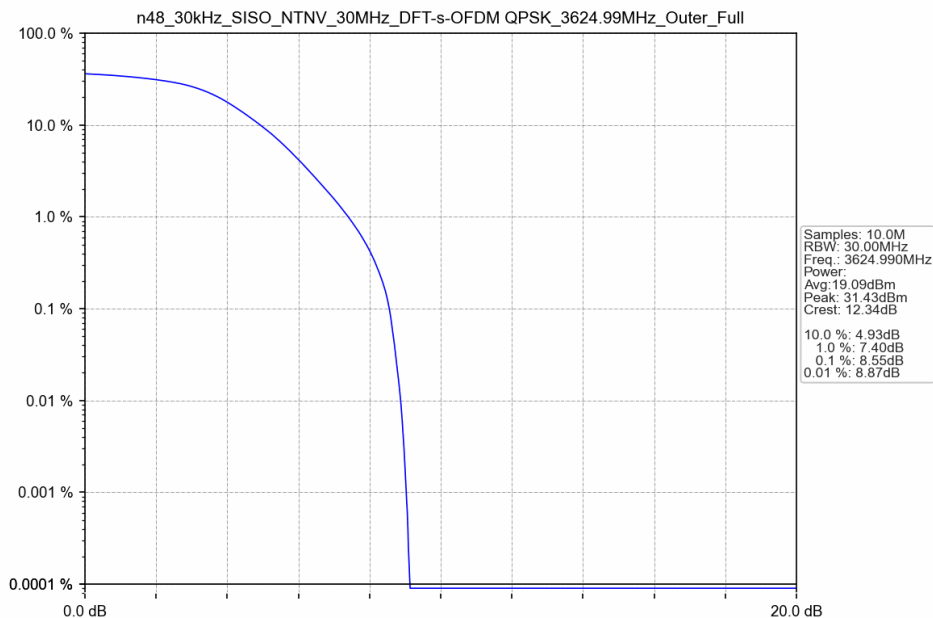
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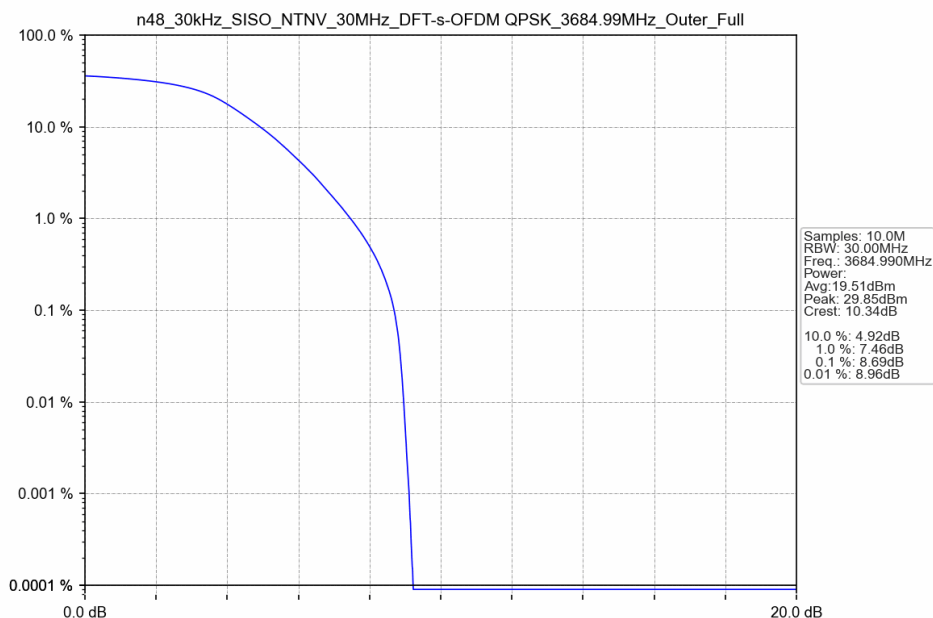
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3684.99MHz\_Outer\_Full

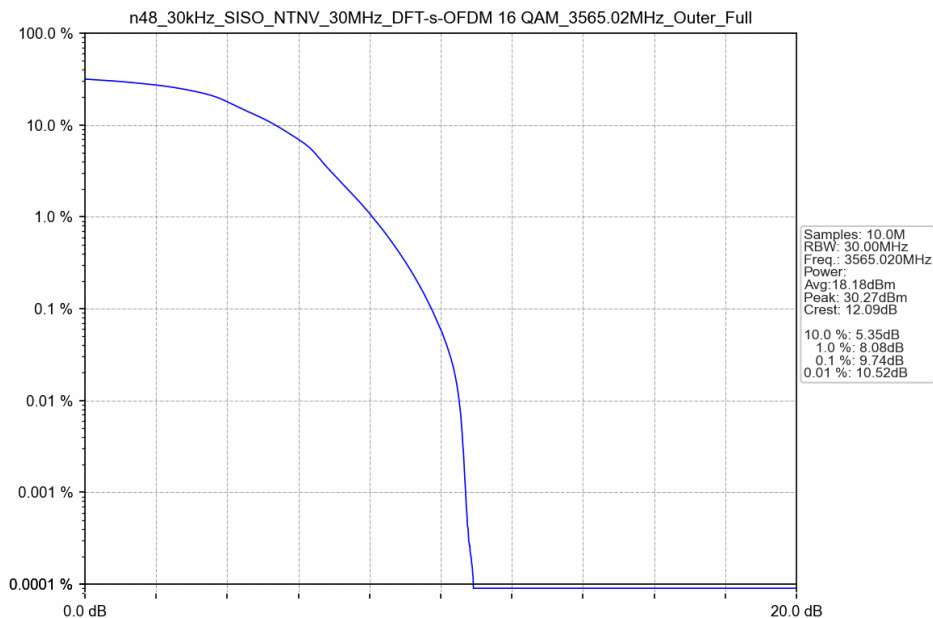


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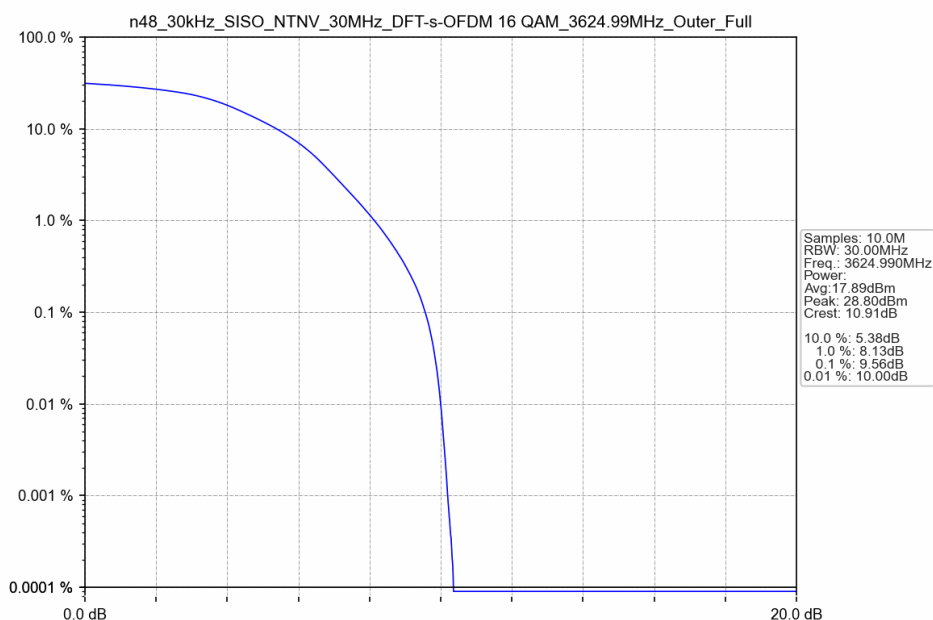
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 16 QAM\_3565.02MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

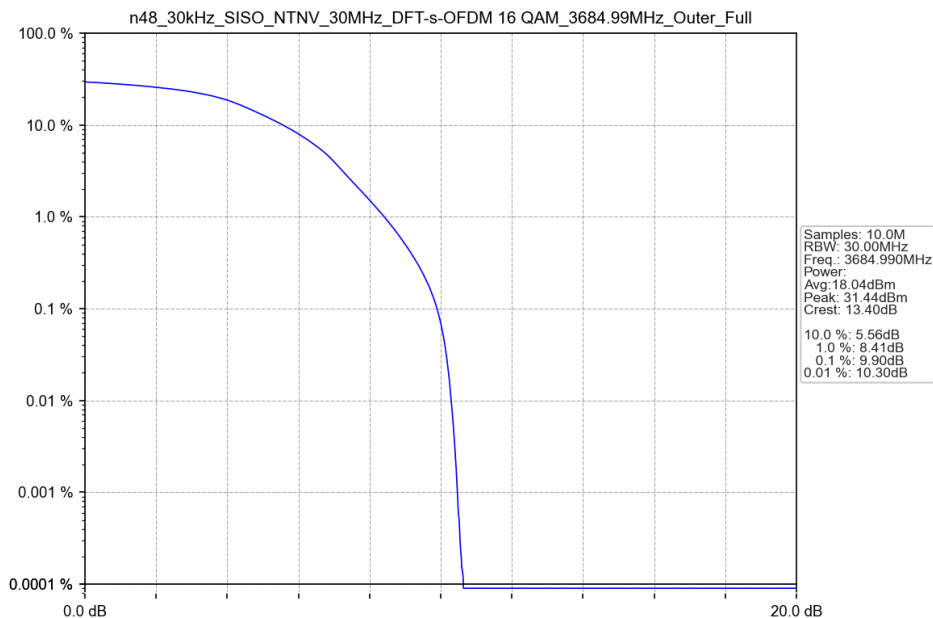


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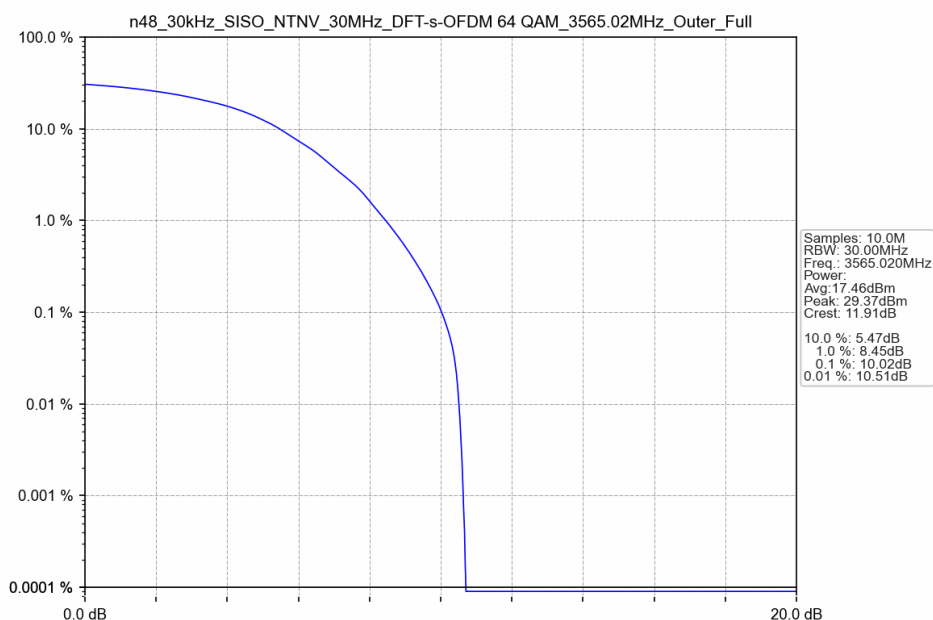
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 16 QAM\_3684.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3565.02MHz\_Outer\_Full

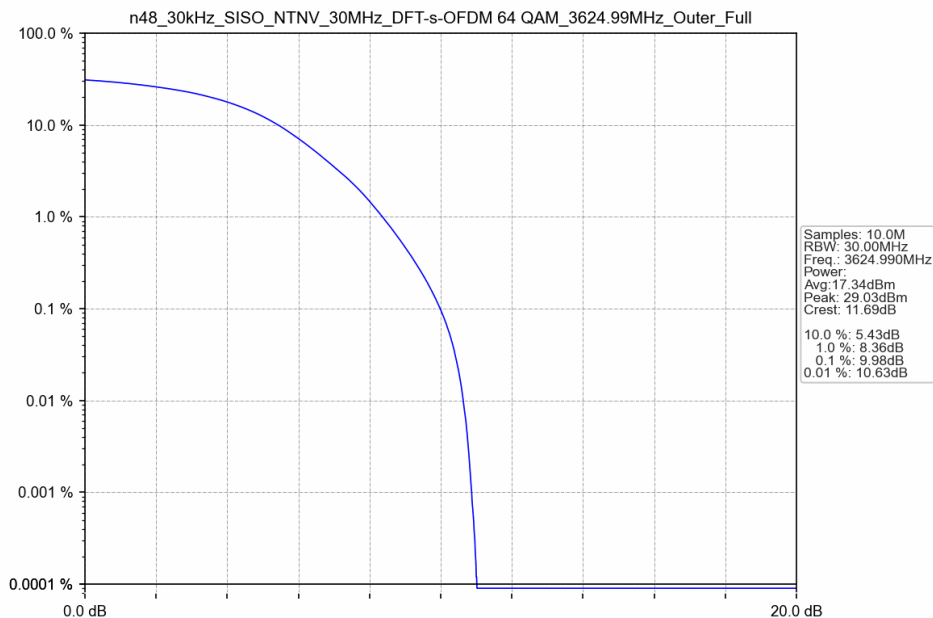


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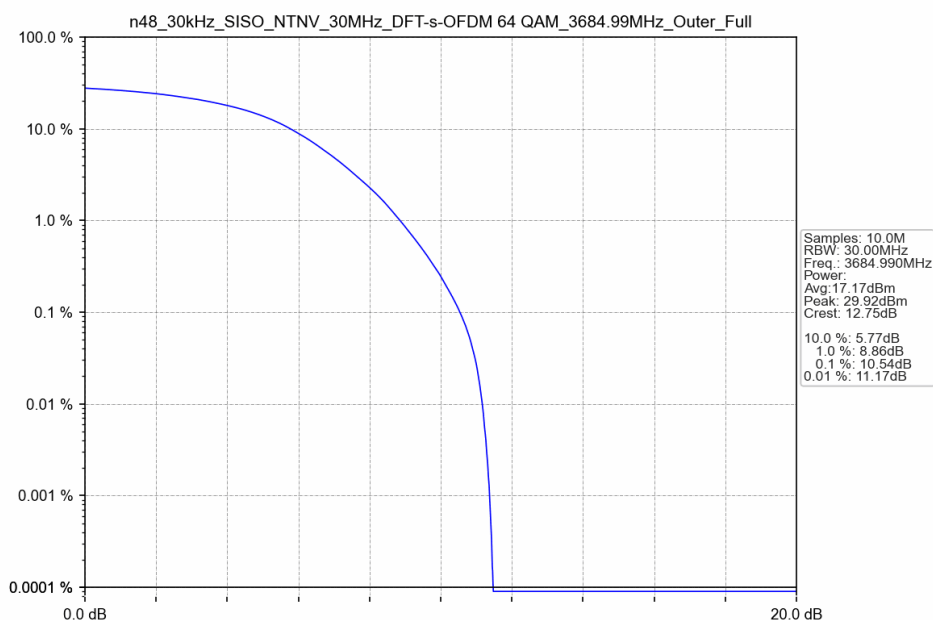
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3684.99MHz\_Outer\_Full

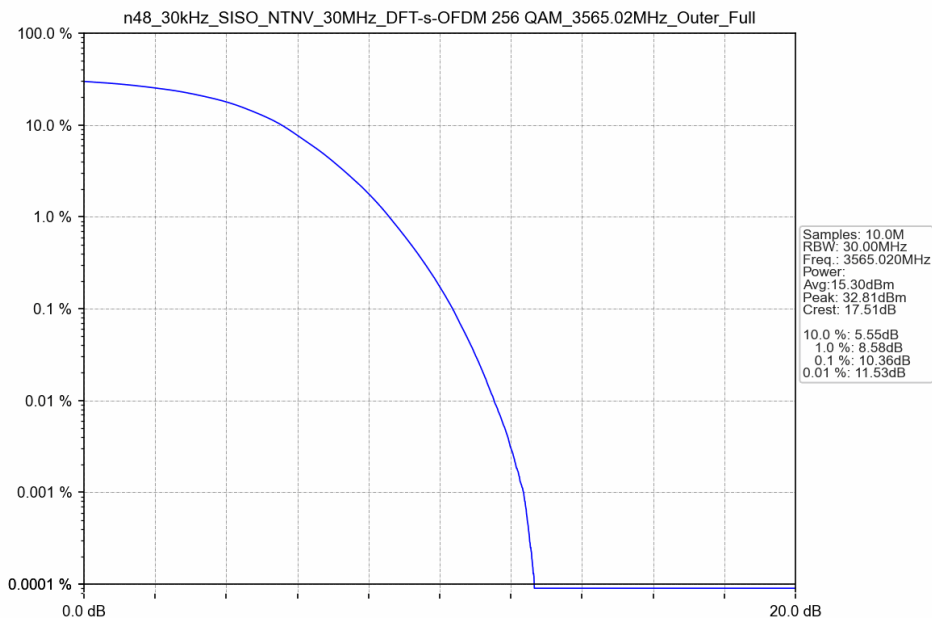


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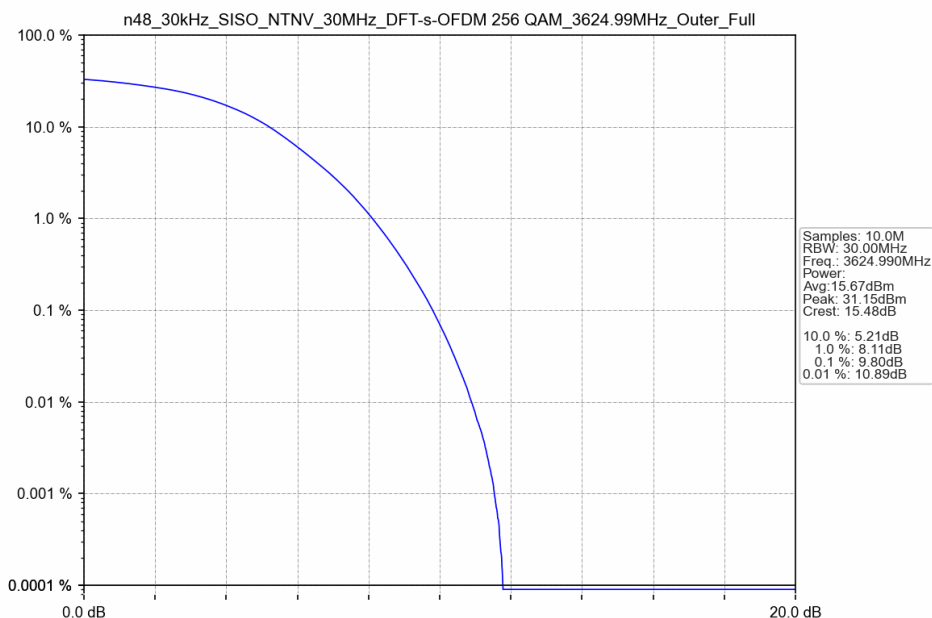
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM\_3565.02MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



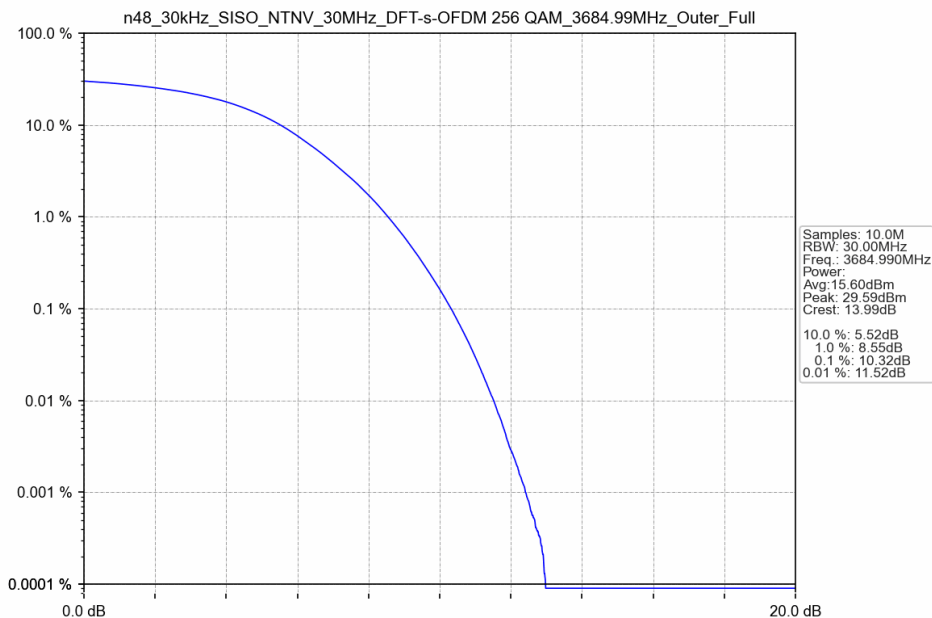
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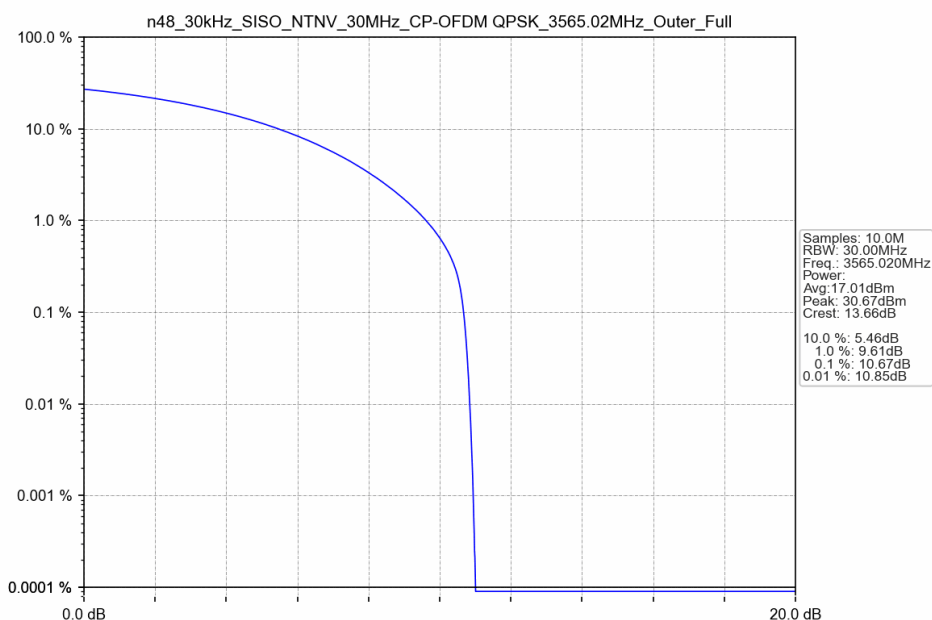
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n48\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM\_3684.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3565.02MHz\_Outer\_Full

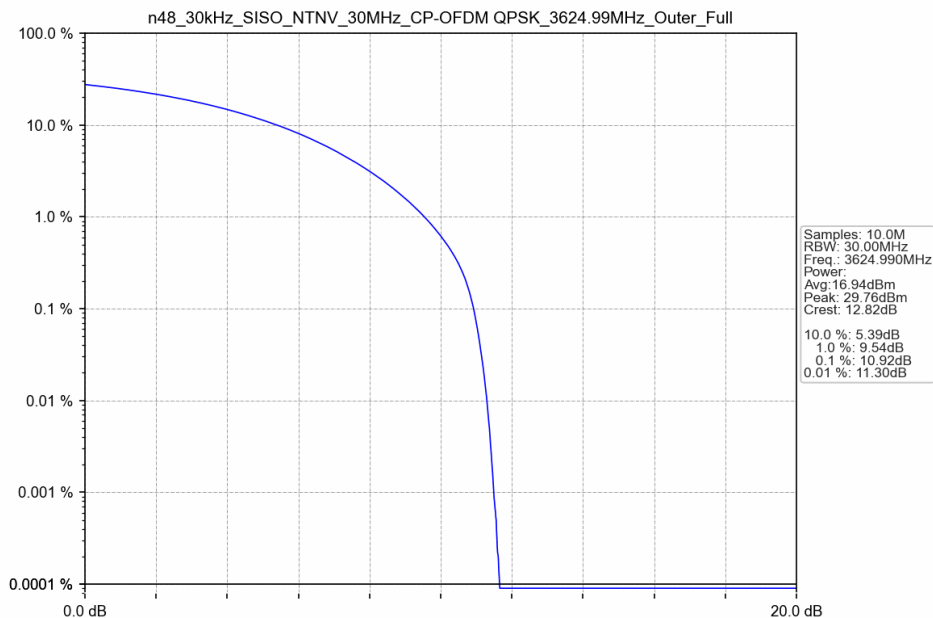


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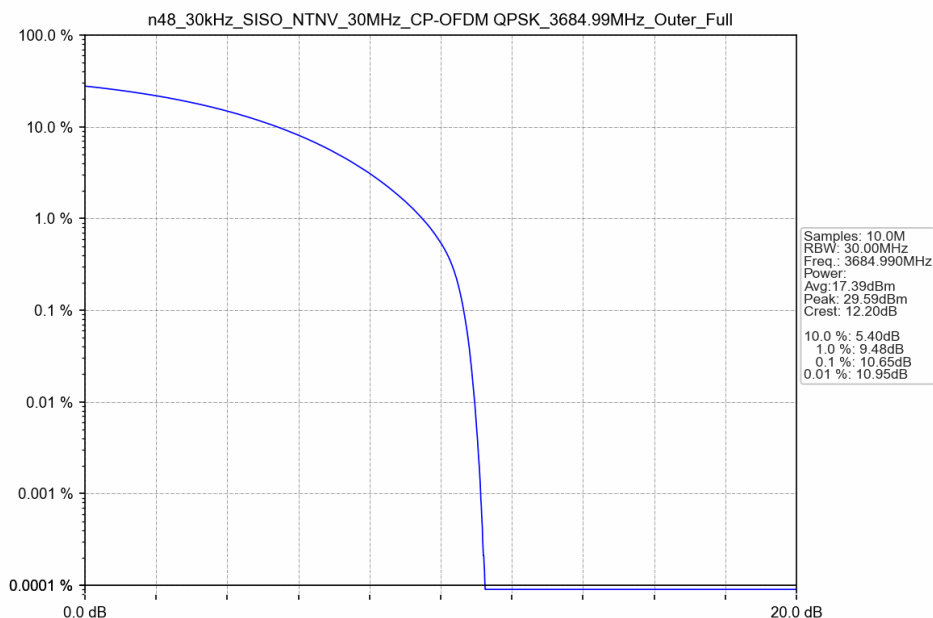
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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3684.99MHz\_Outer\_Full

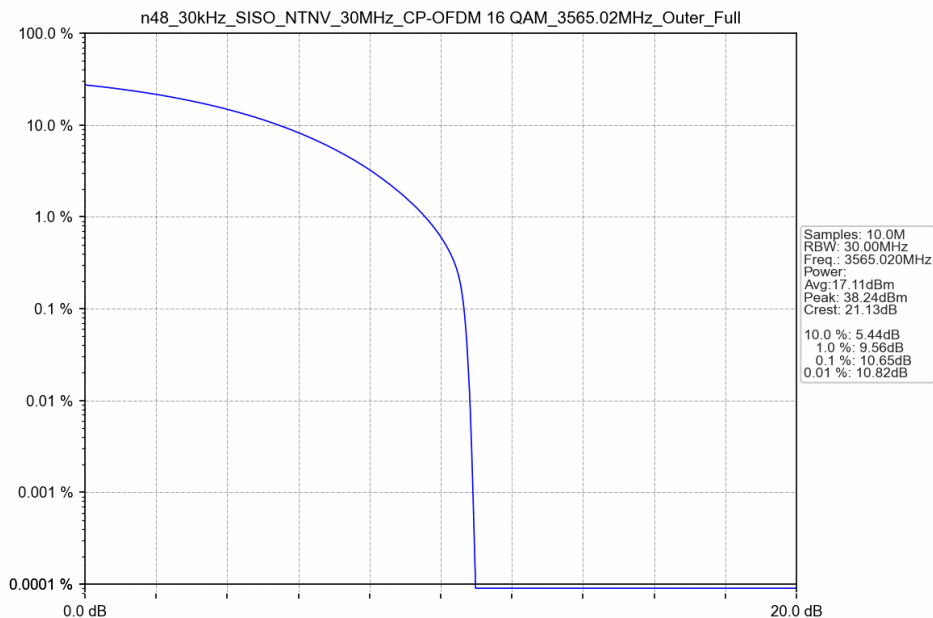


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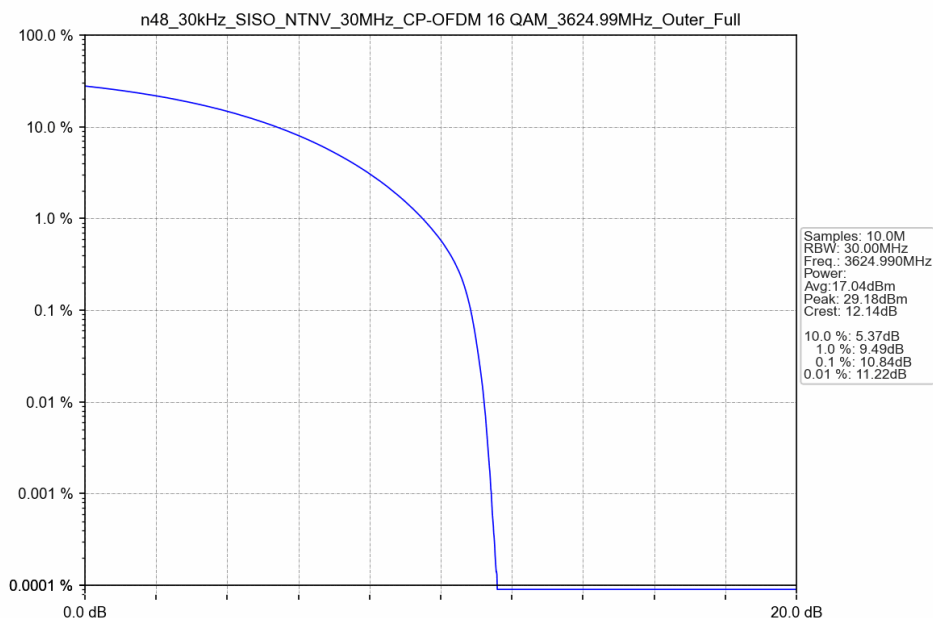
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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM\_3565.02MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

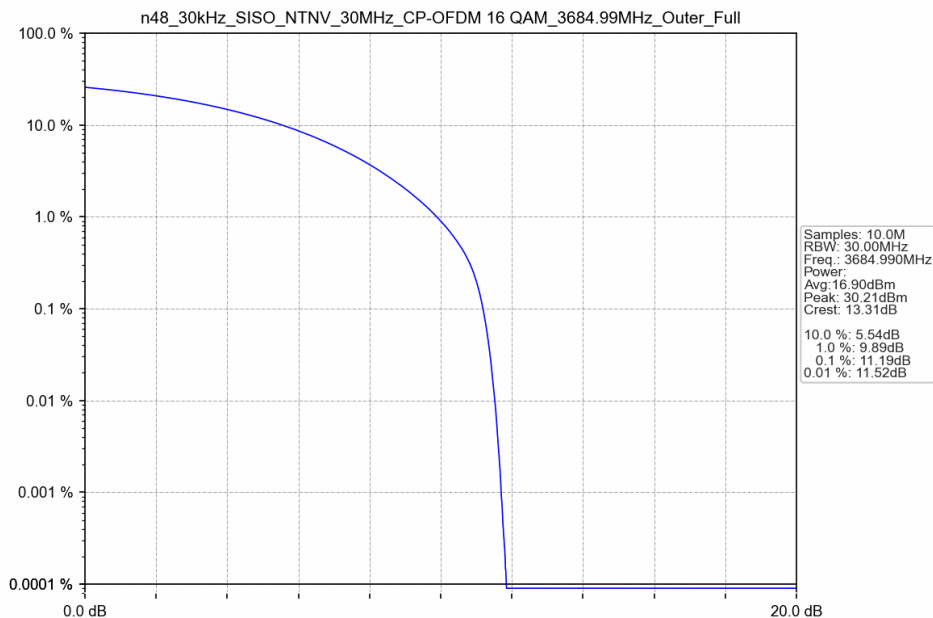


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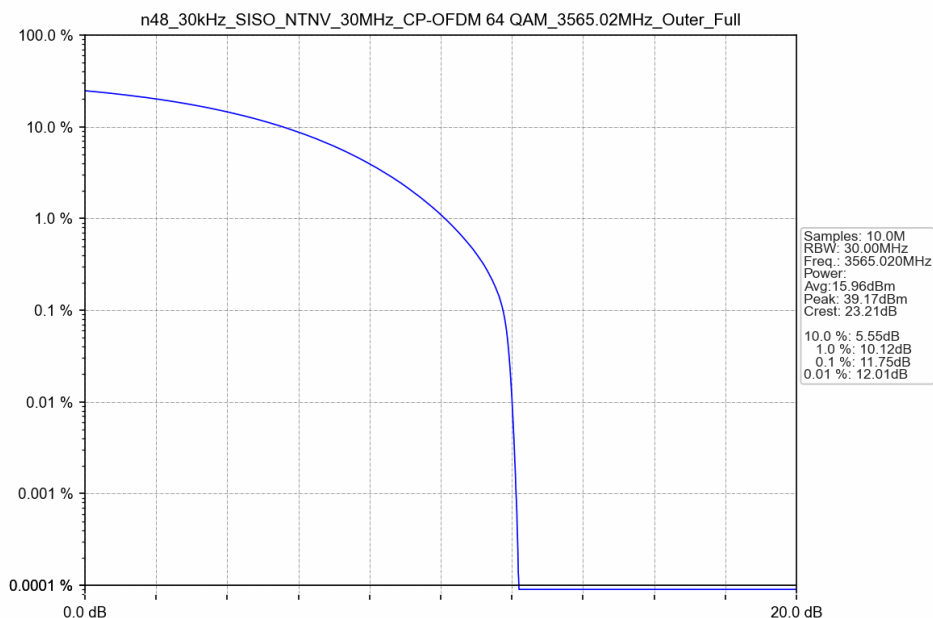
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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM\_3684.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3565.02MHz\_Outer\_Full

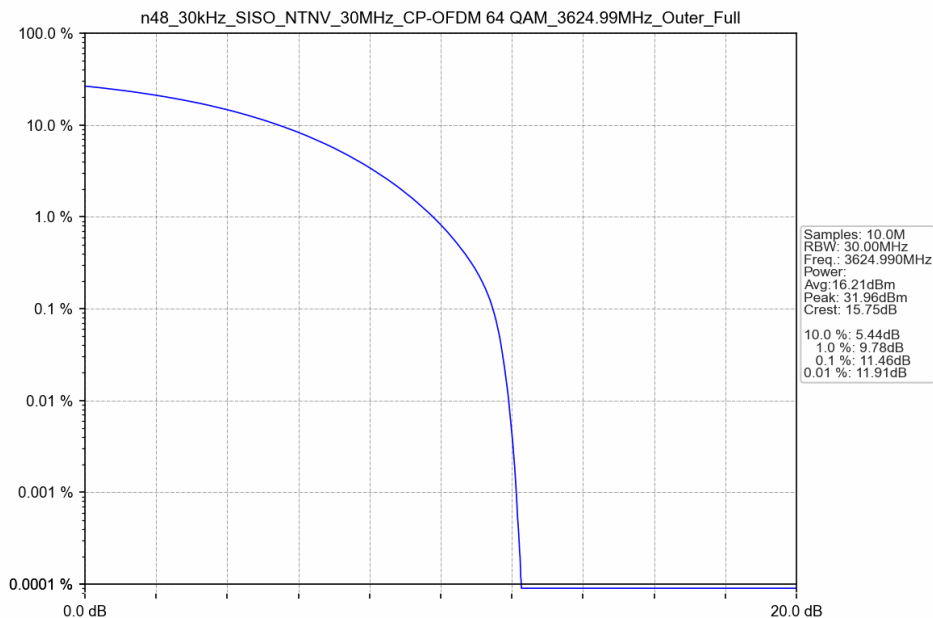


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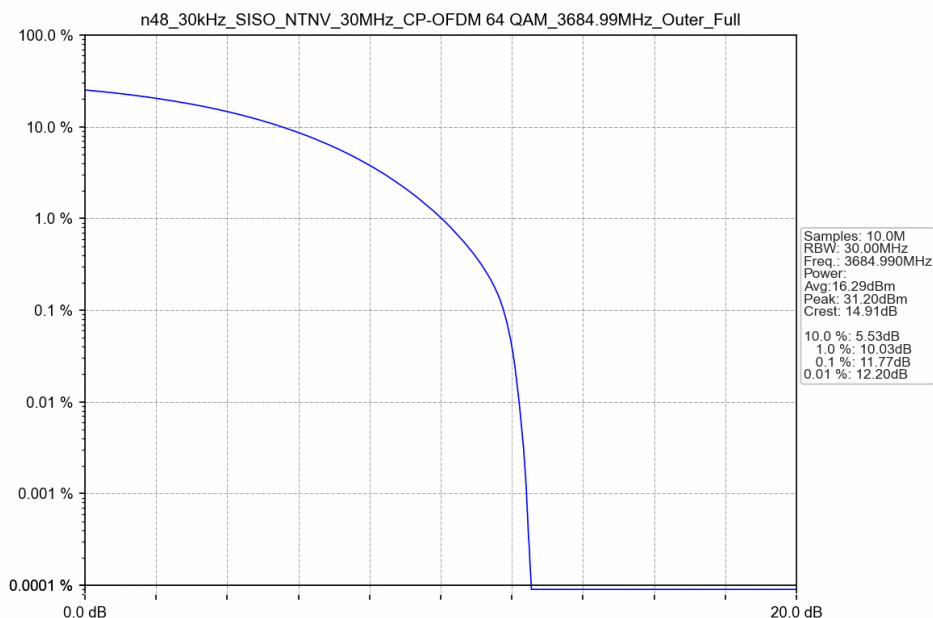
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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3684.99MHz\_Outer\_Full



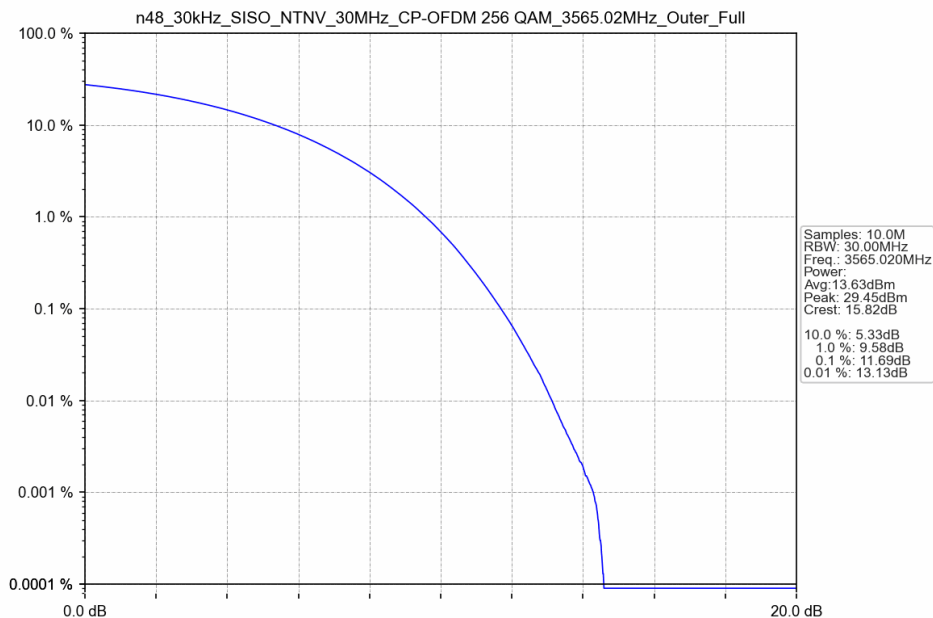
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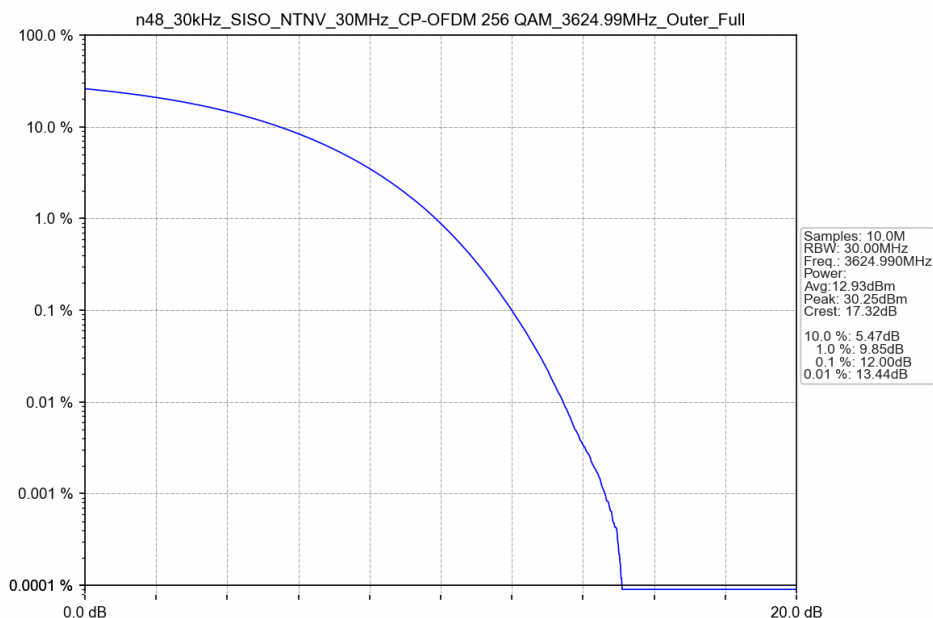
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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM\_3565.02MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full

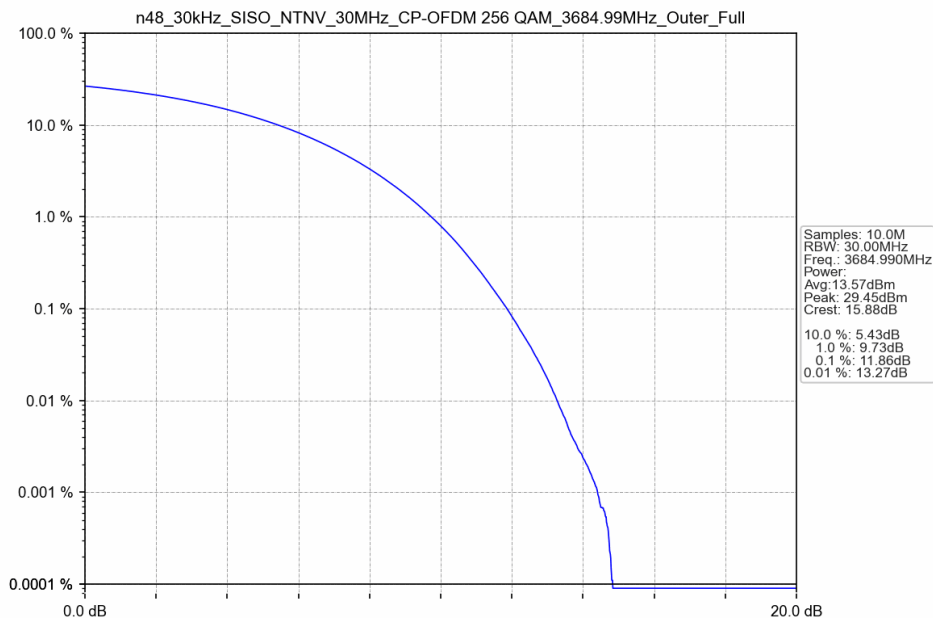


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n48\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM\_3684.99MHz\_Outer\_Full



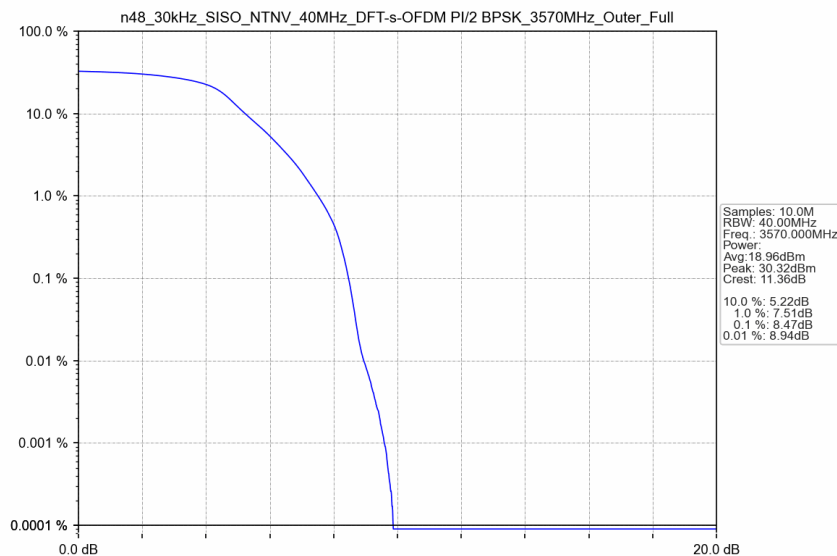
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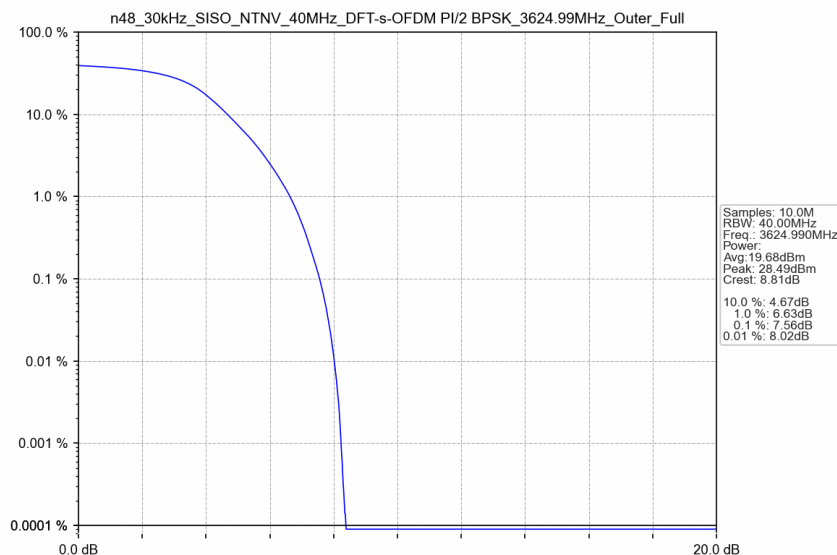
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### 4.2.4 30k\_SISO\_40MHz\_NTNV

n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3624.99MHz\_Outer\_Full

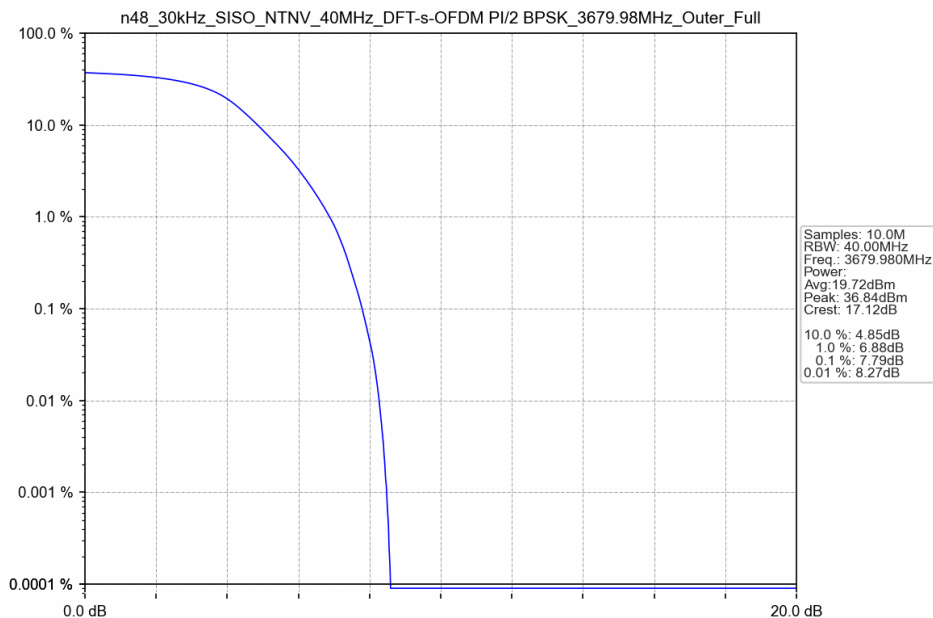


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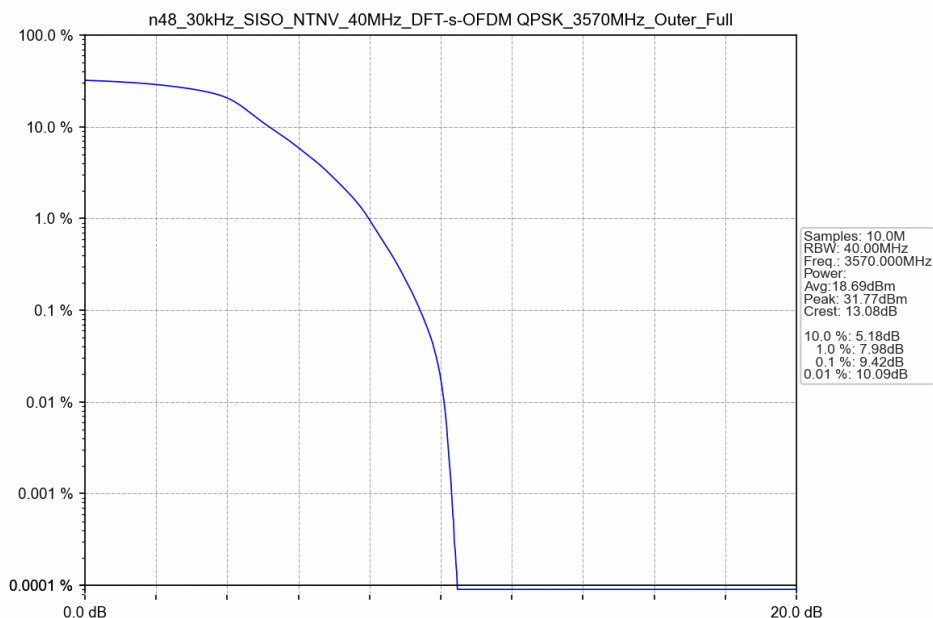
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3679.98MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3570MHz\_Outer\_Full

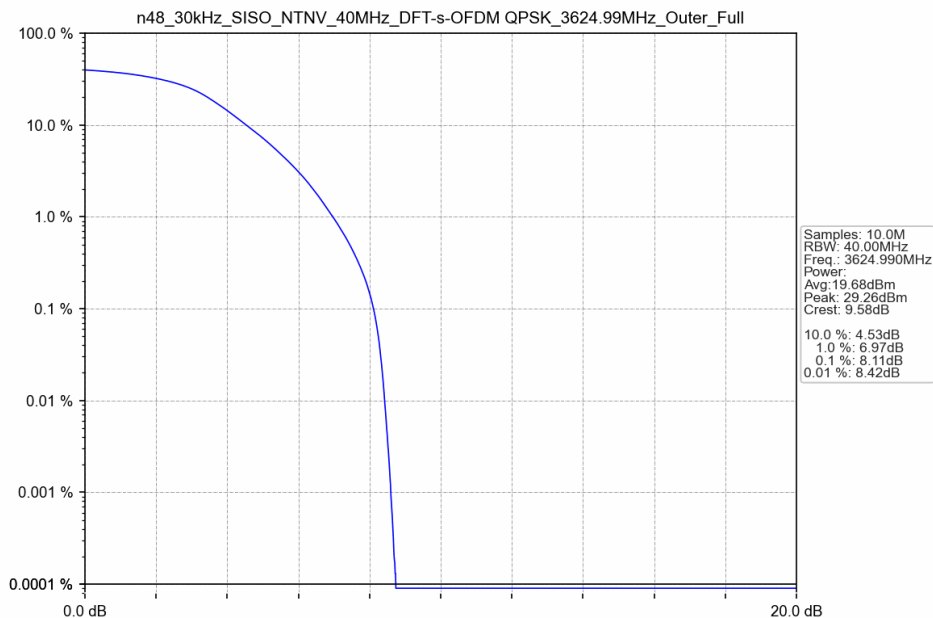


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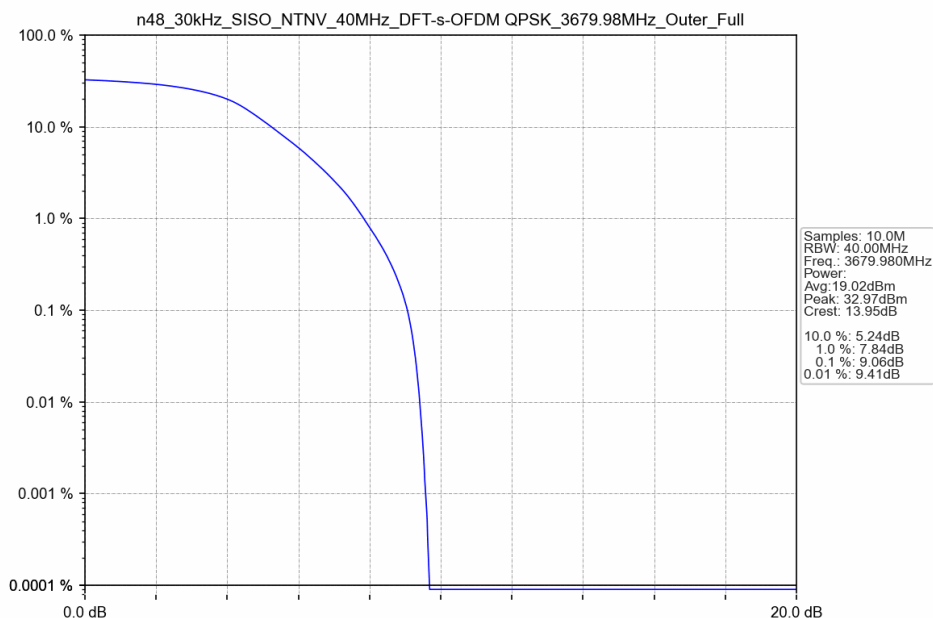
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3679.98MHz\_Outer\_Full



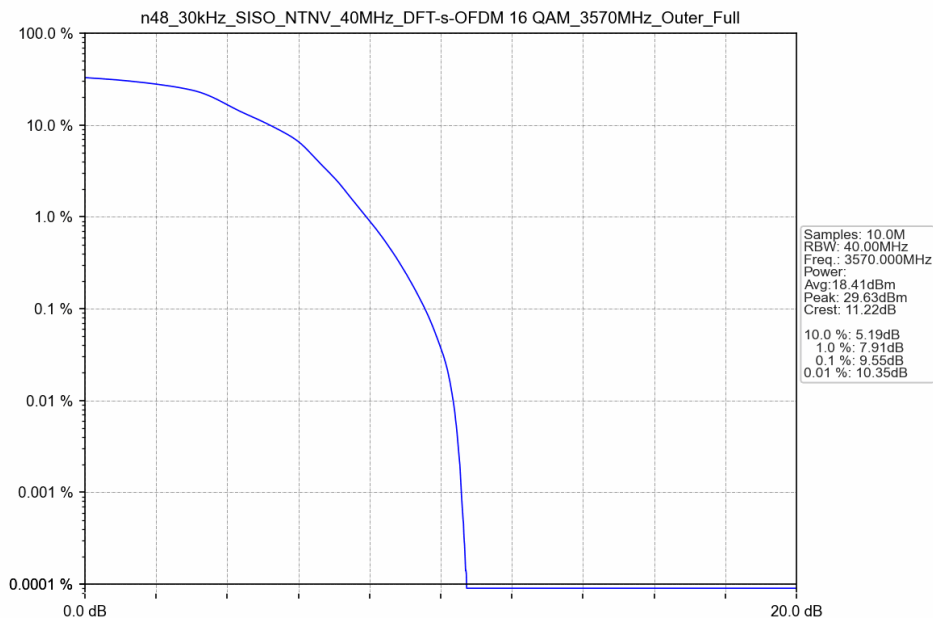
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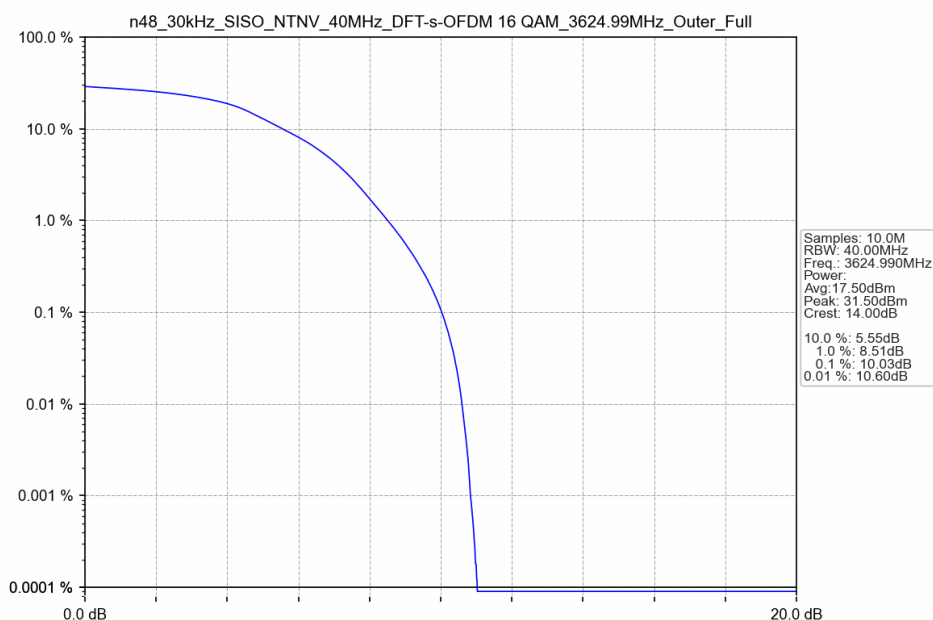
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 16 QAM\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

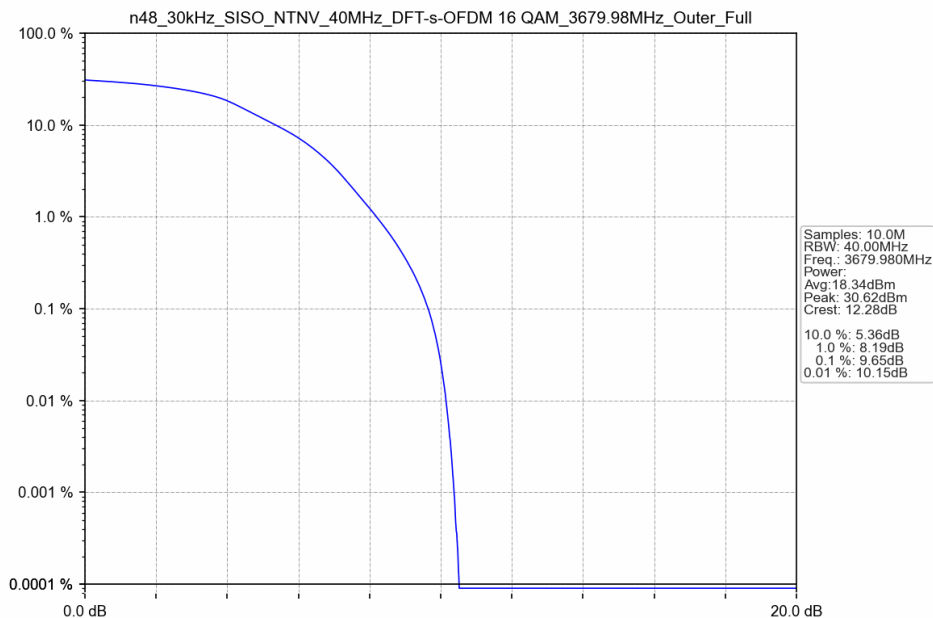


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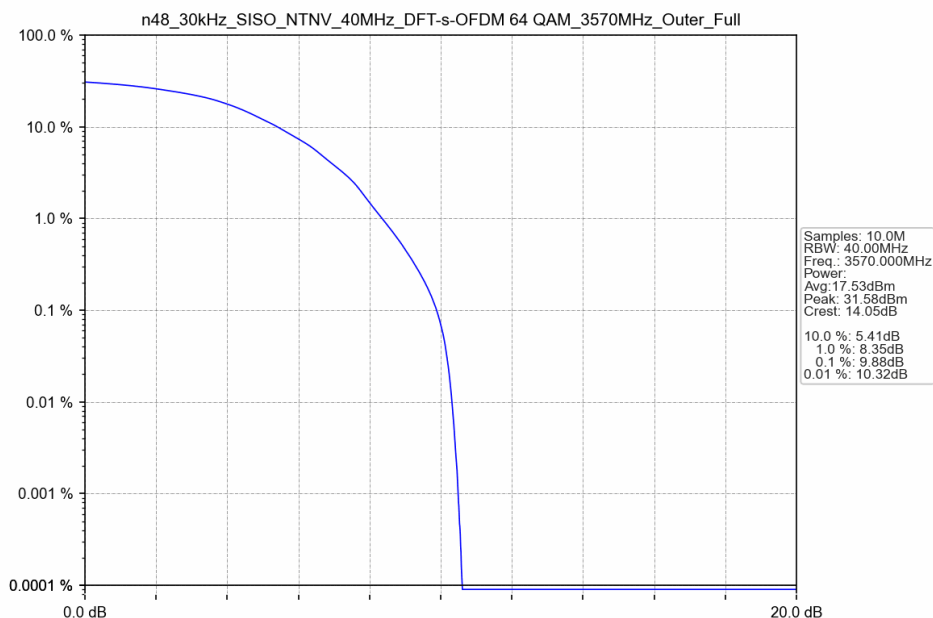
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 16 QAM\_3679.98MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3570MHz\_Outer\_Full

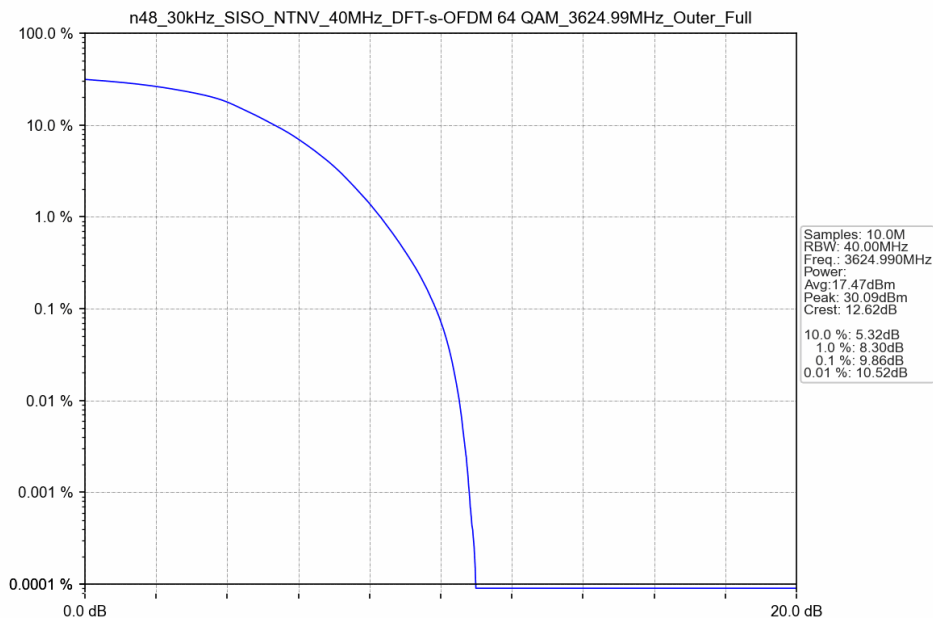


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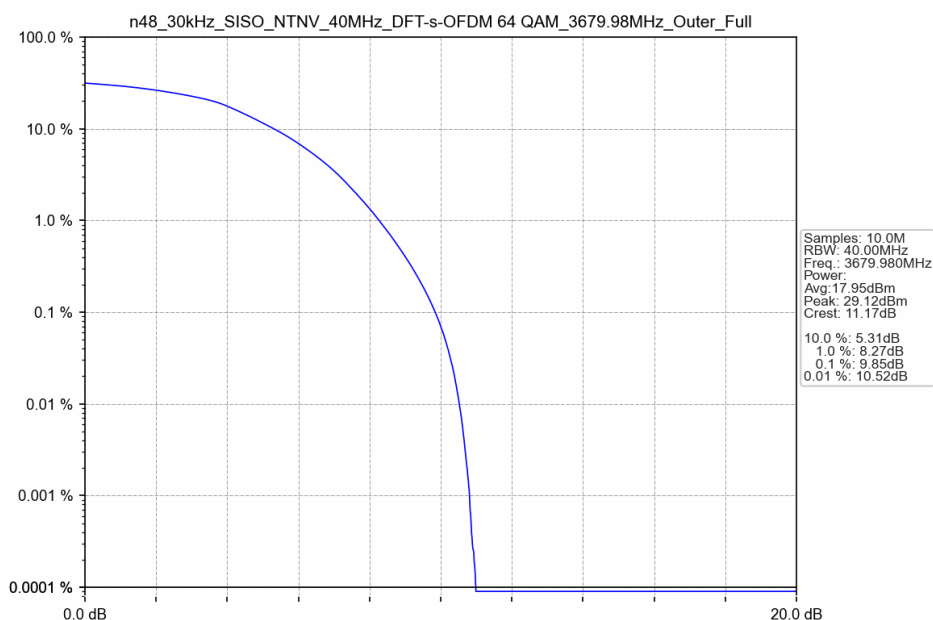
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3679.98MHz\_Outer\_Full

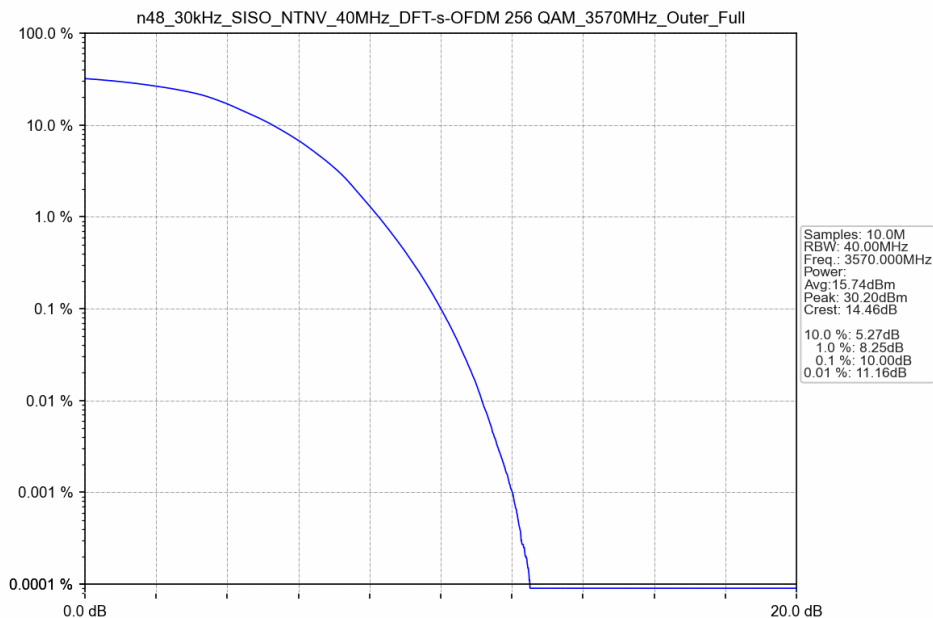


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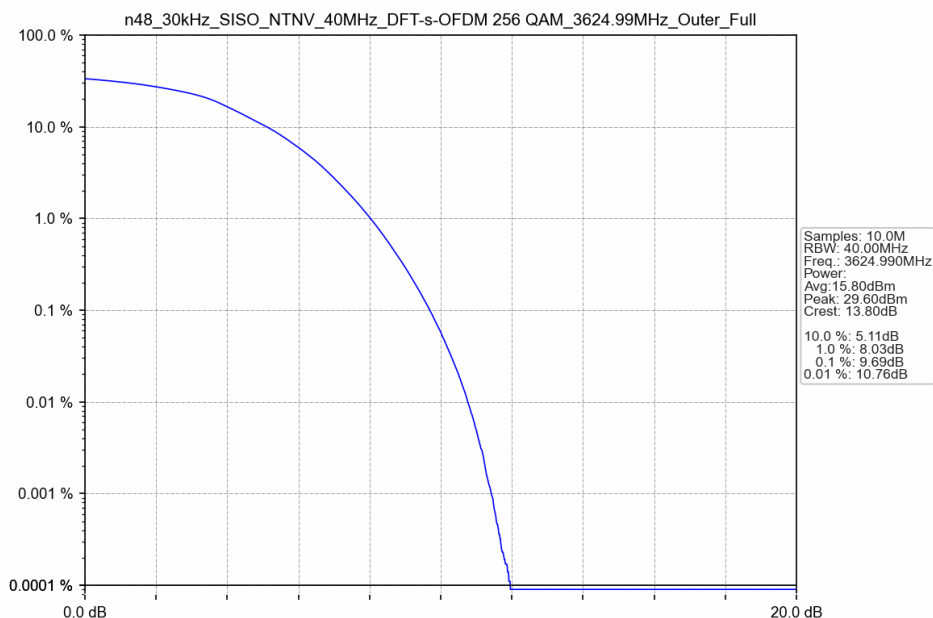
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3624.99MHz\_Outer\_Full

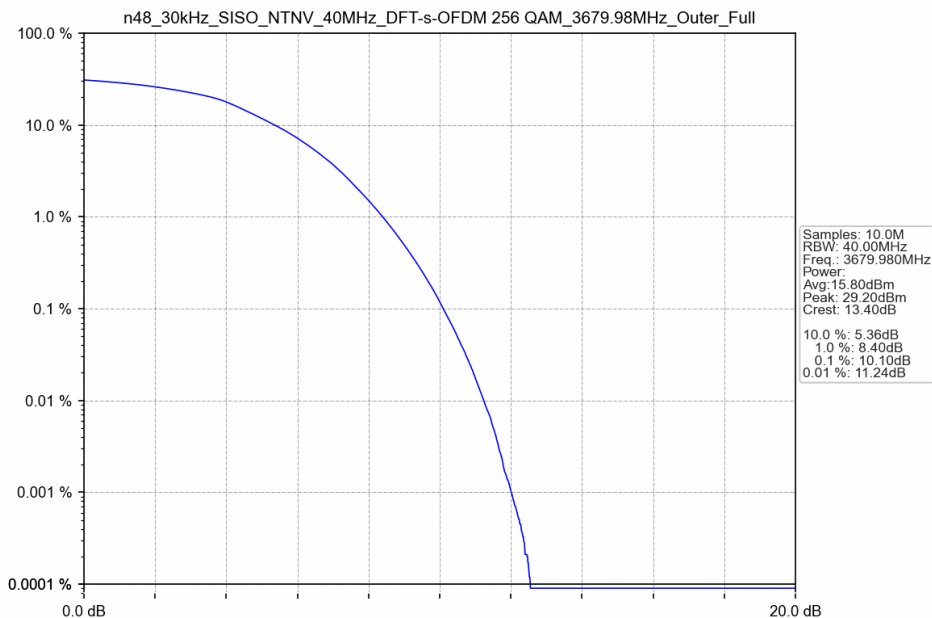


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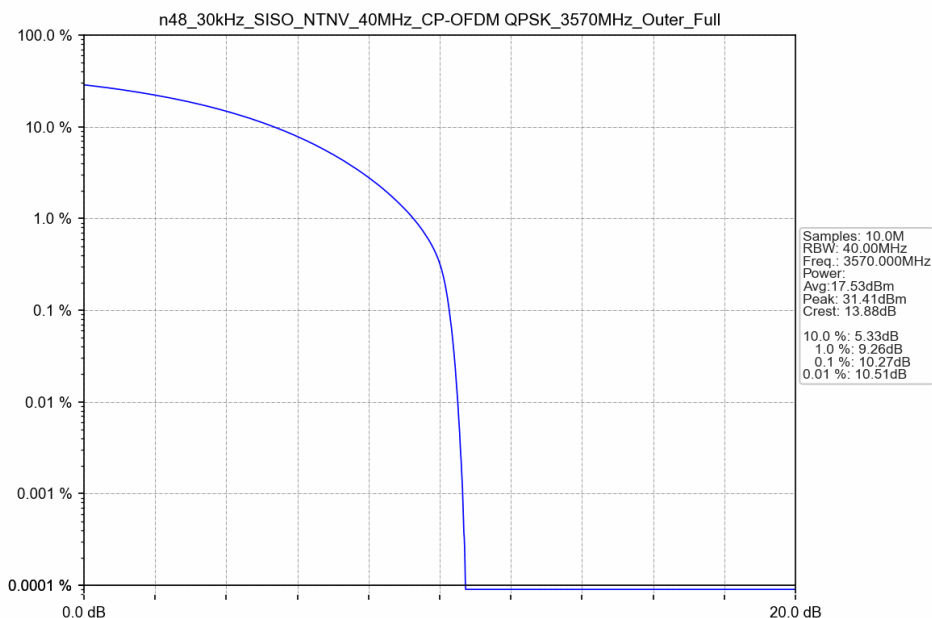
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n48\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3679.98MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3570MHz\_Outer\_Full



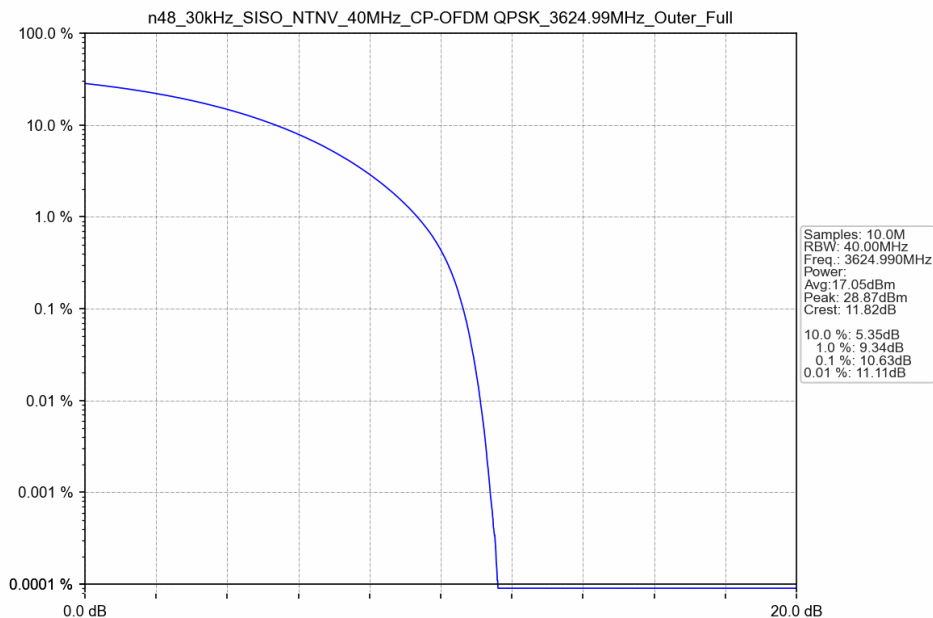
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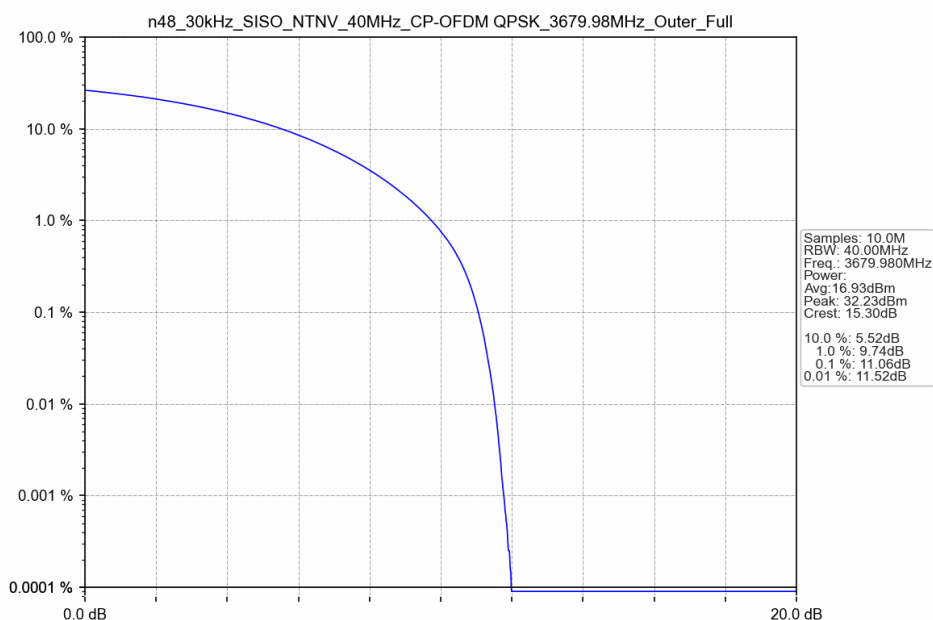
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n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3679.98MHz\_Outer\_Full

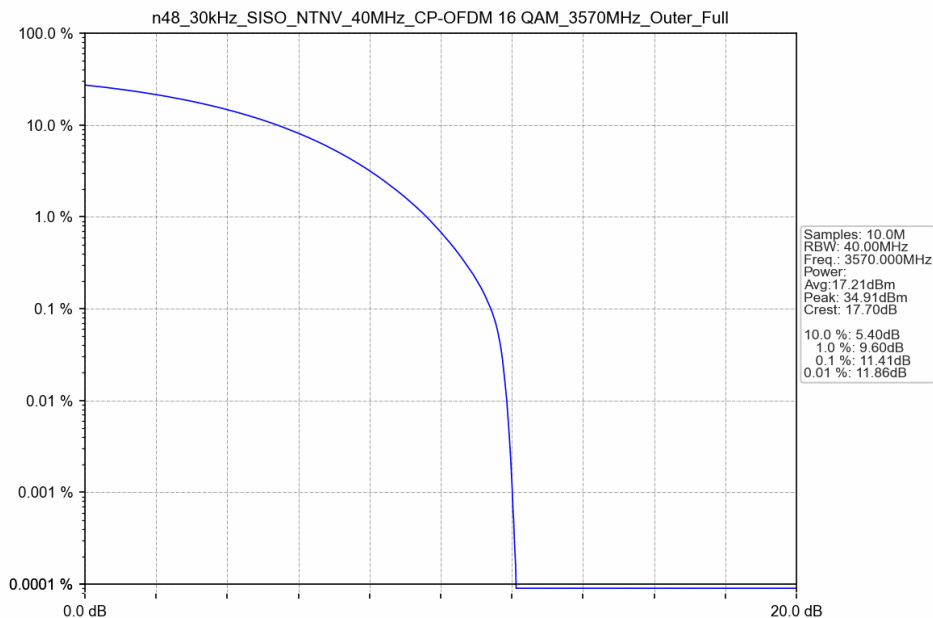


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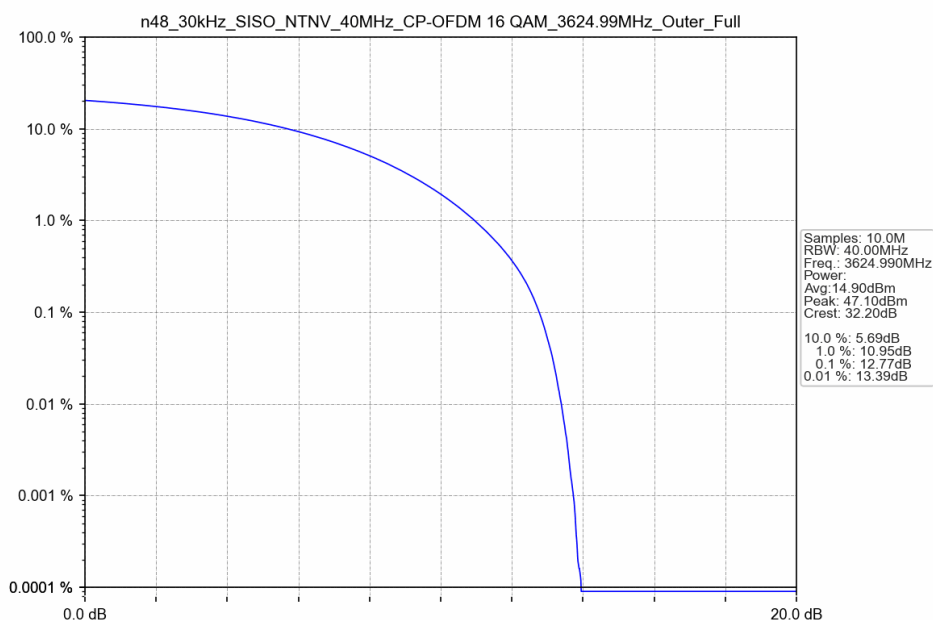
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n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full

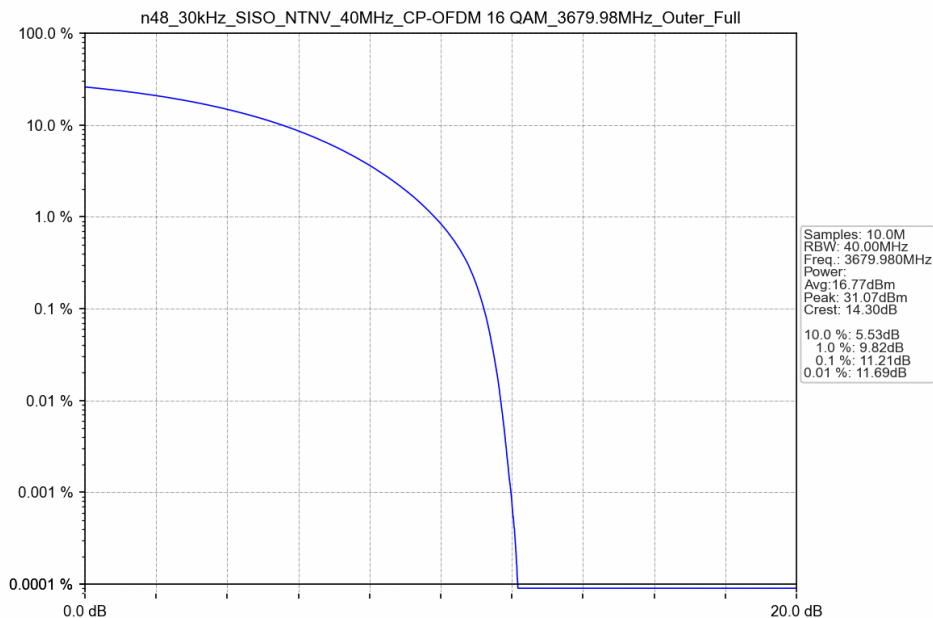


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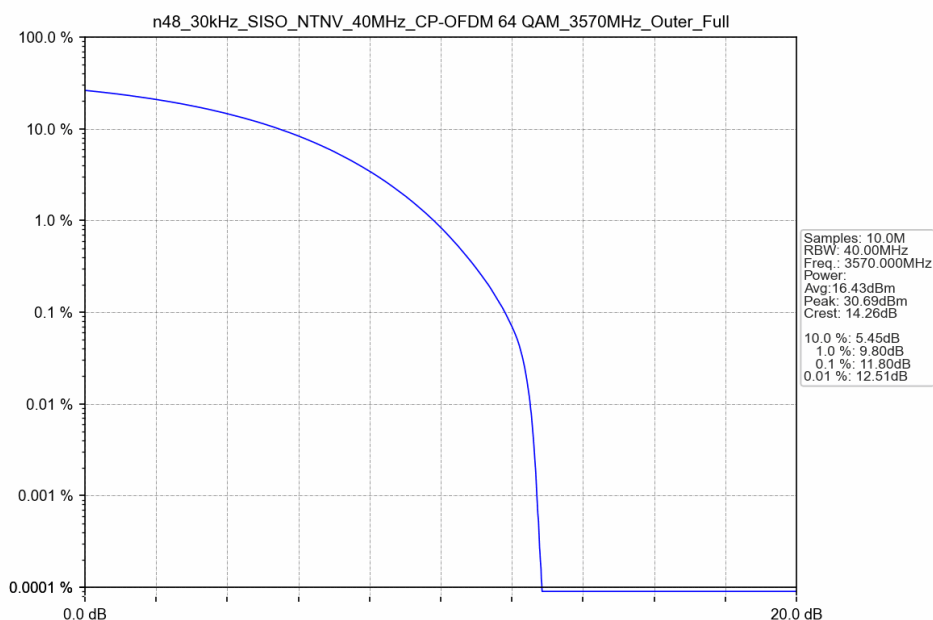
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n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3679.98MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3570MHz\_Outer\_Full

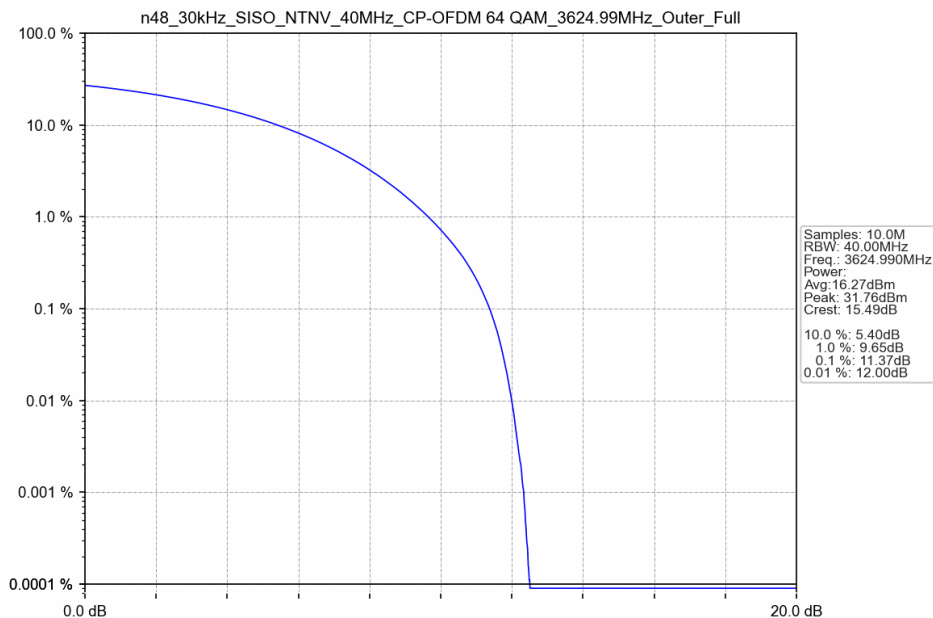


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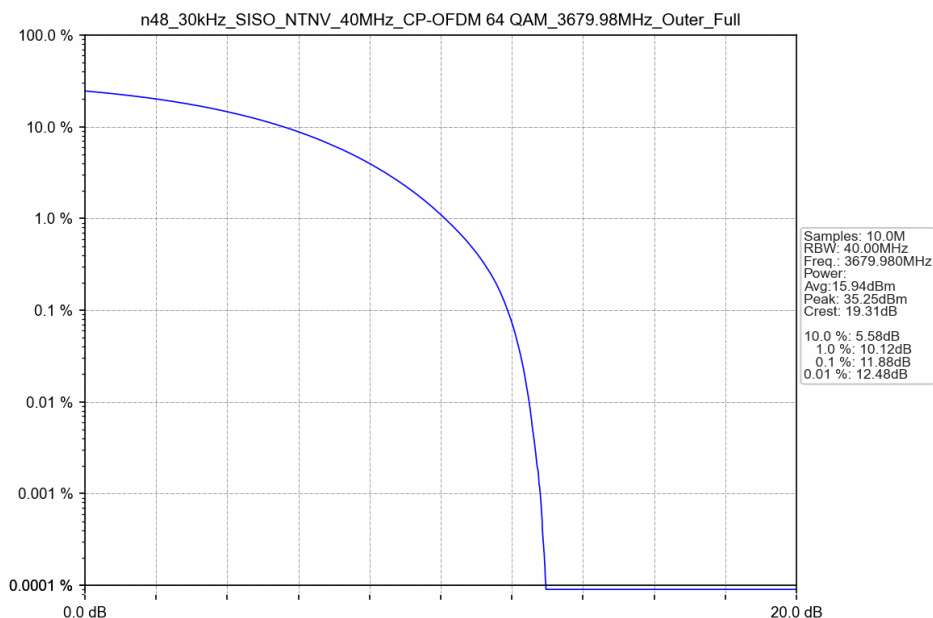
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n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_3679.98MHz\_Outer\_Full

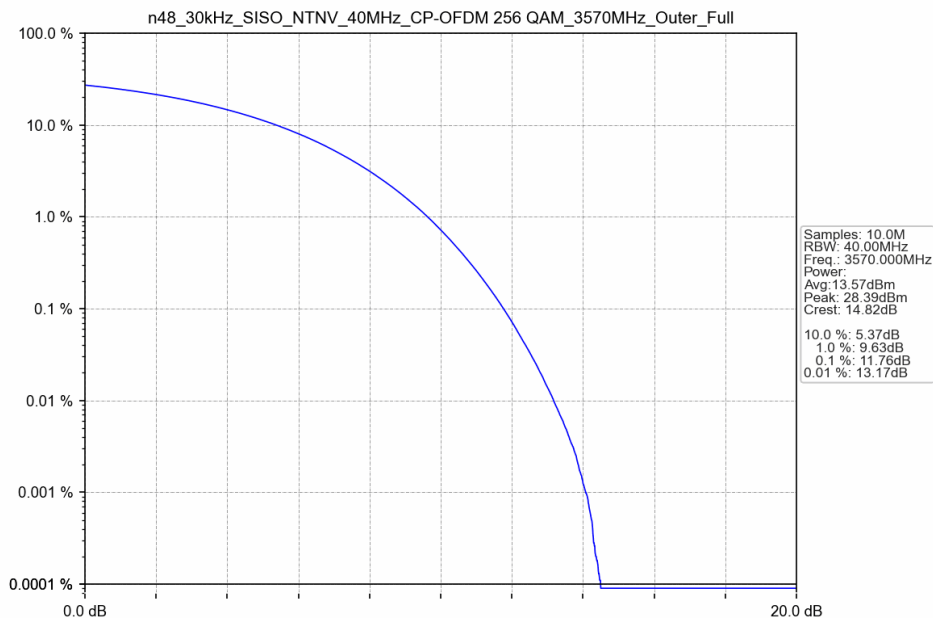


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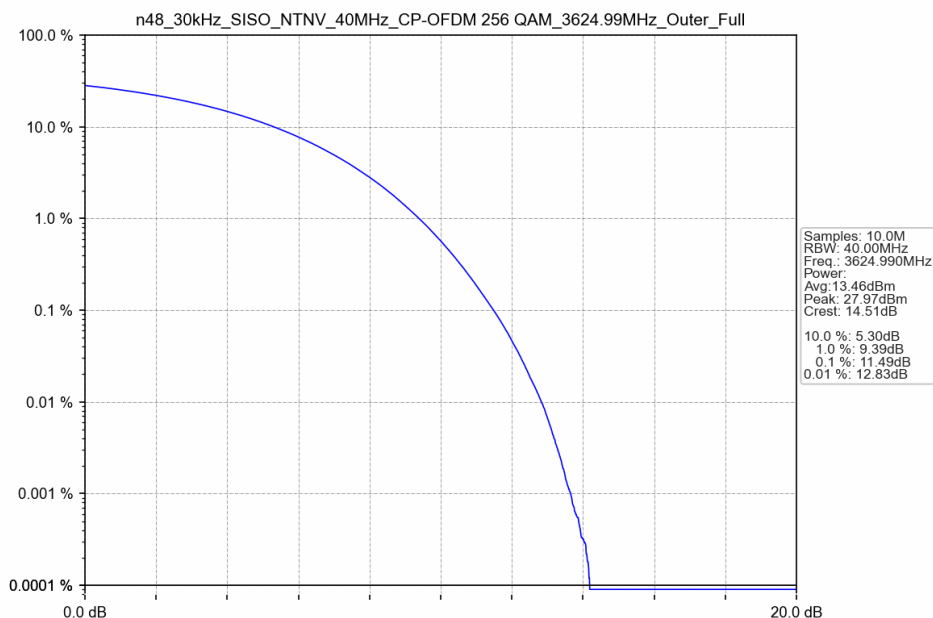
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n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3570MHz\_Outer\_Full



n48\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



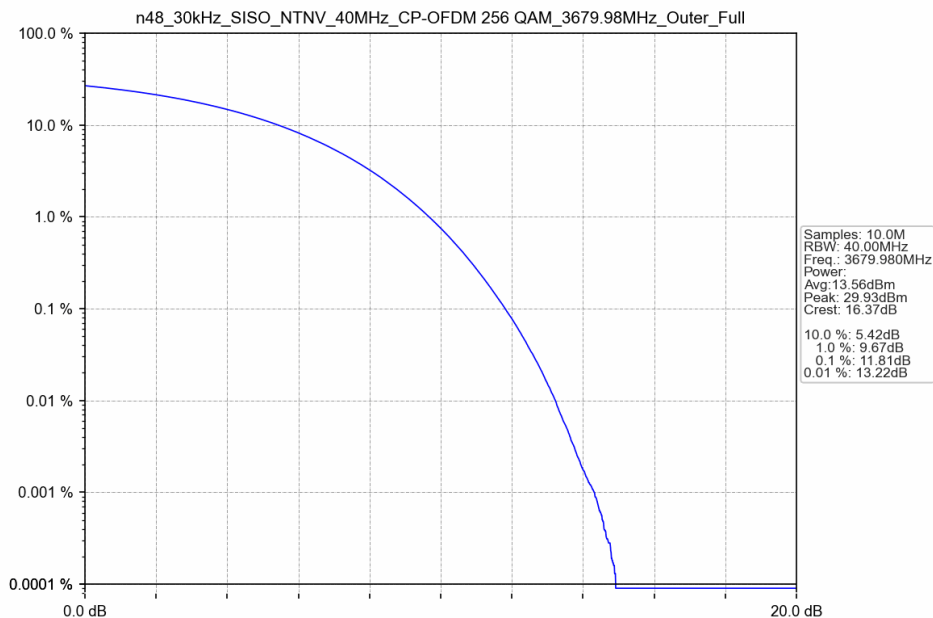
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## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 30k\_MIMO\_10MHz\_NTNV

5G NR n48 SCS=30kHz MIMO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3694.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass

#### 5.1.2 30k\_MIMO\_20MHz\_NTNV

5G NR n48 SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass



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		Inner_1RB_Left	Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass
	3690	Edge_1RB_Right	Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
			Refer To Test Graph	Pass
			Refer To Test Graph	Pass

### 5.1.3 30k\_MIMO\_30MHz\_NTNV

5G NR n48 SCS=30kHz MIMO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3565.02	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3684.99	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass



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### 5.1.4 30k\_MIMO\_40MHz\_NTNV

5G NR n48 SCS=30kHz MIMO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	Refer To Test Graph				Pass		
	3679.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
Refer To Test Graph				Pass			
Refer To Test Graph				Pass			



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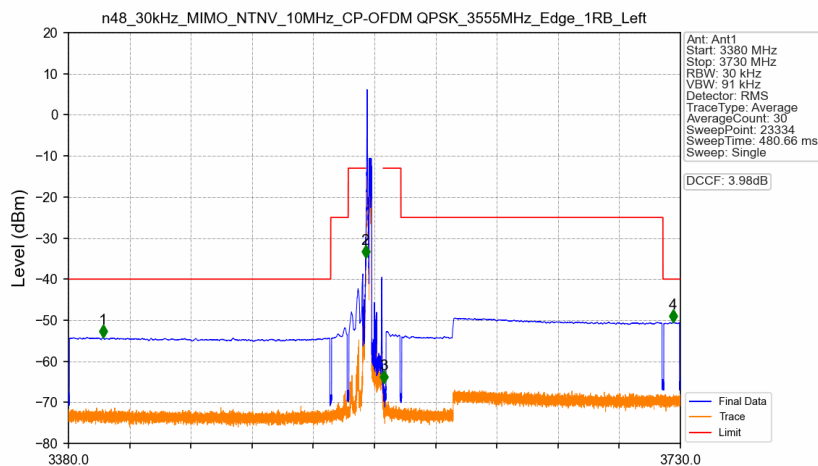
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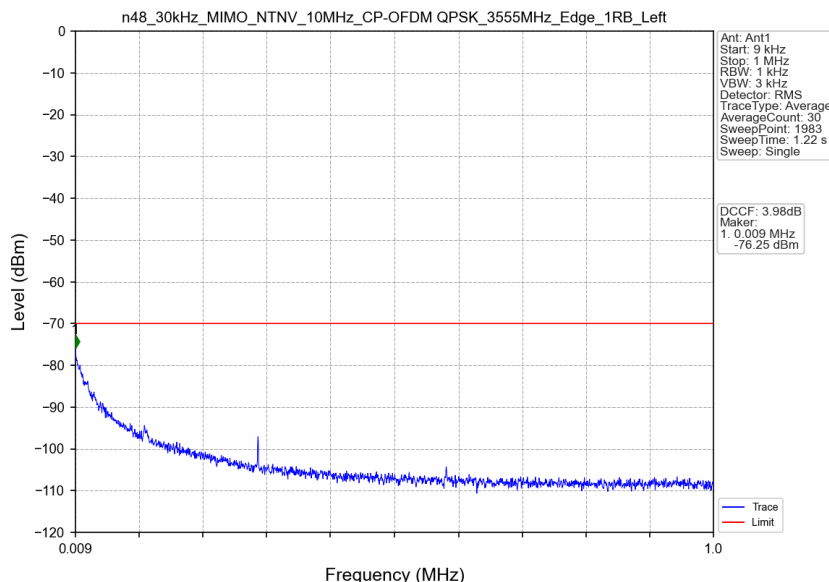
### 1.2 Test Graph

#### 1.2.1 30k\_MIMO\_10MHz\_NTNV

n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left



n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left



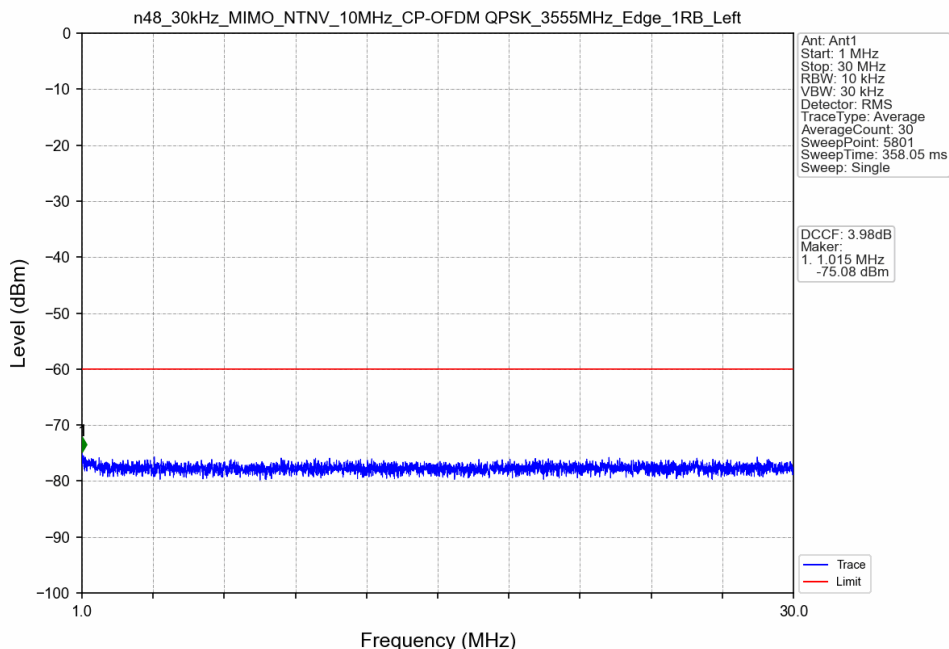
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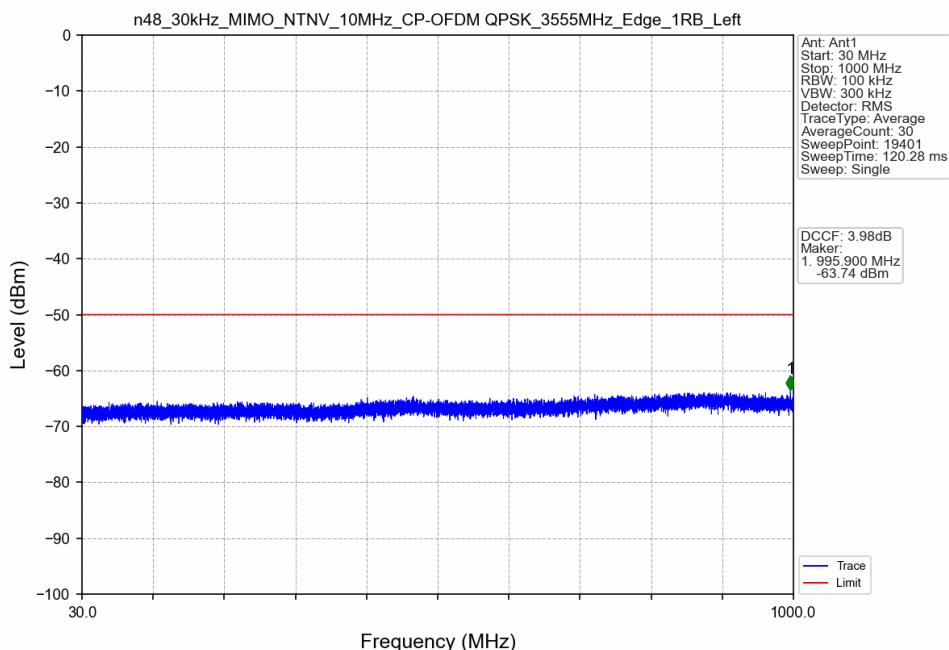
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n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left

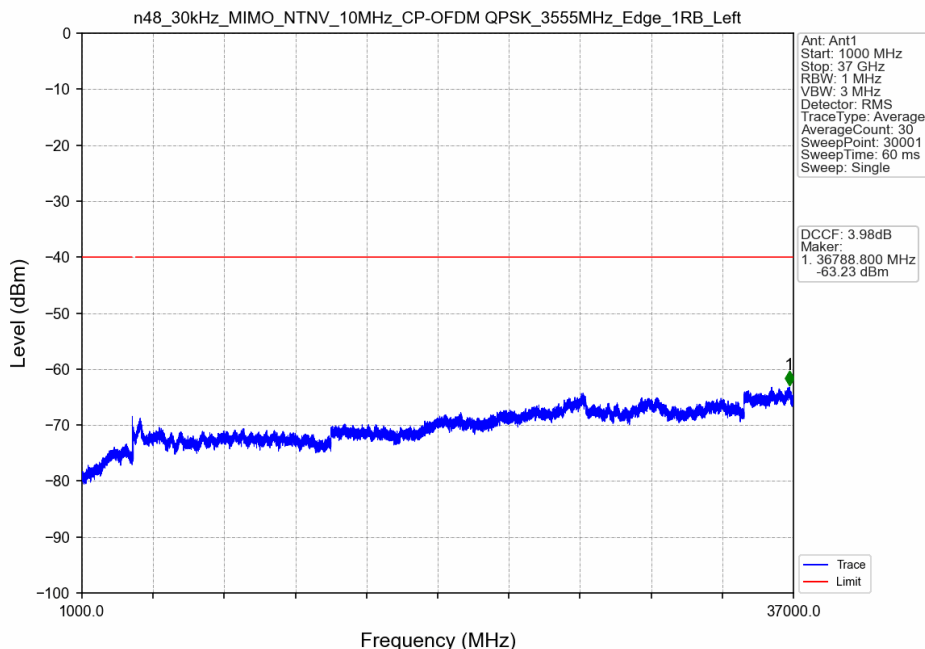


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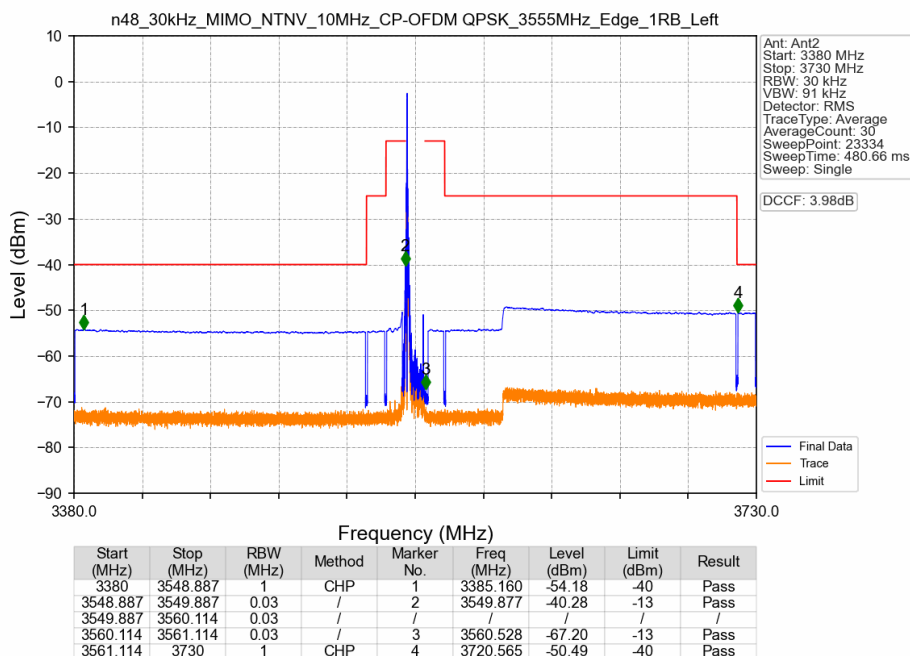
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n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left

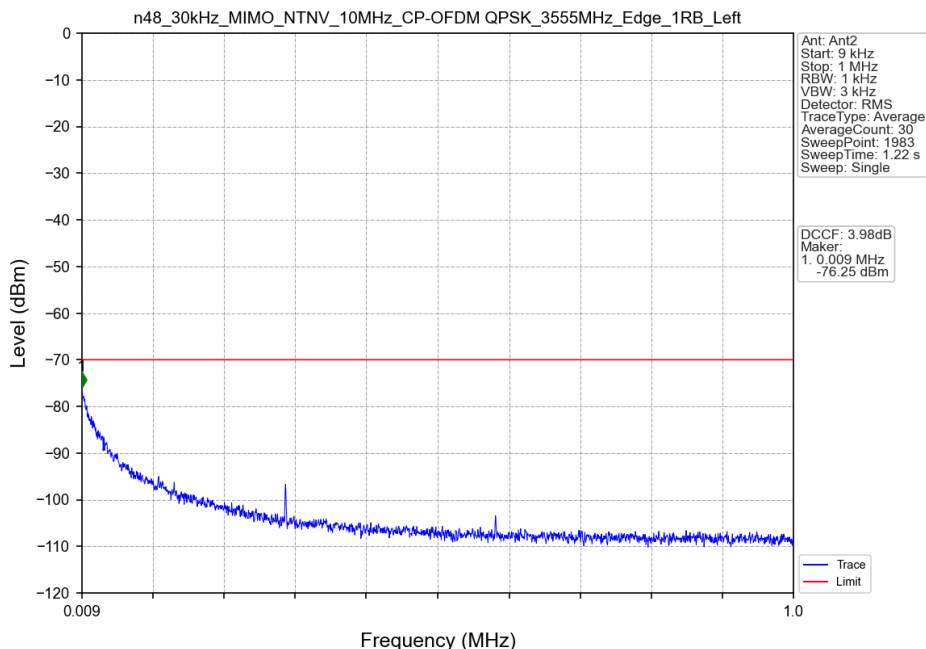


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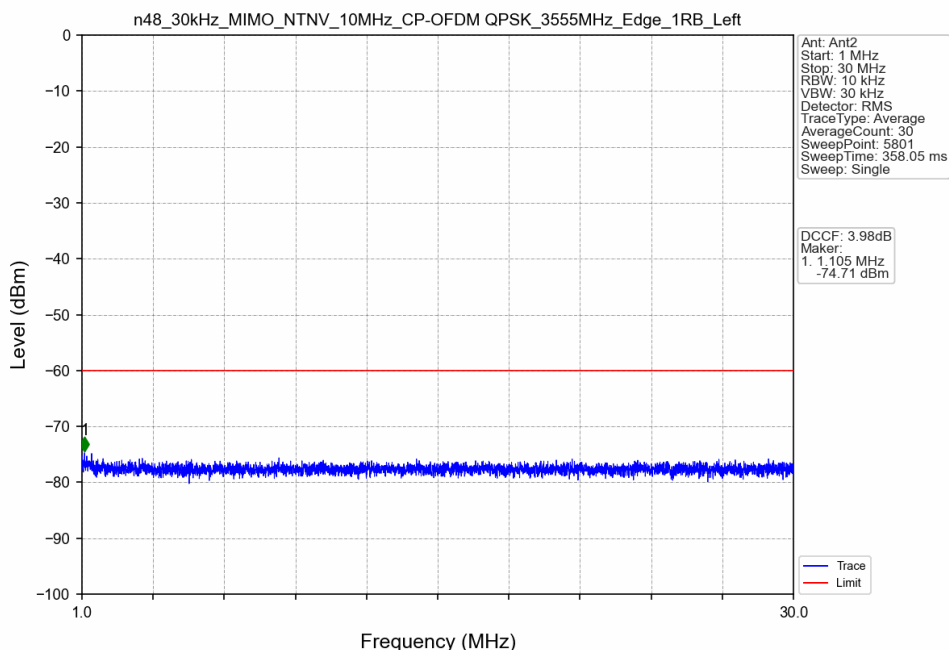
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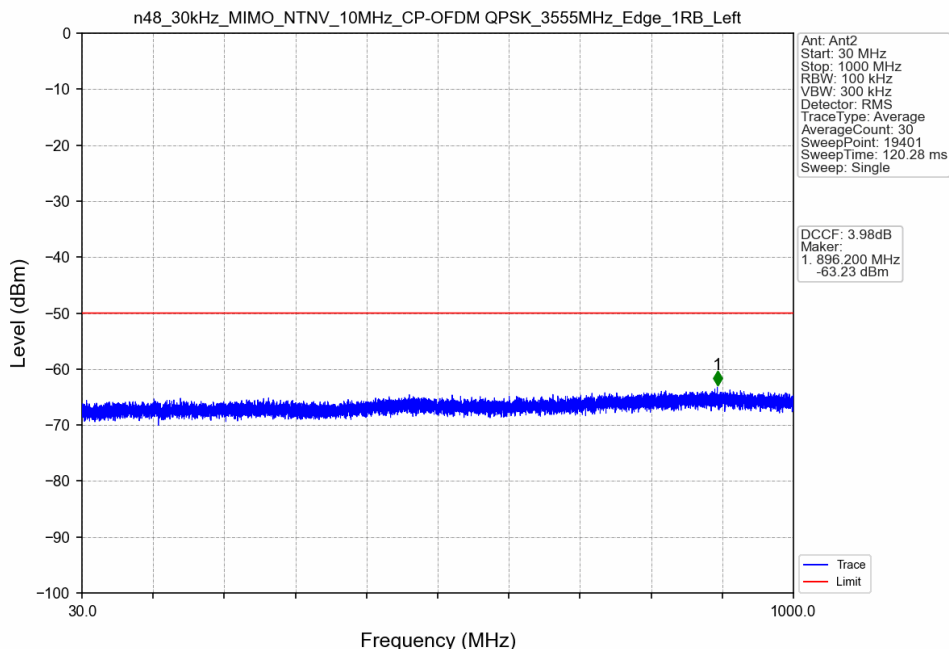


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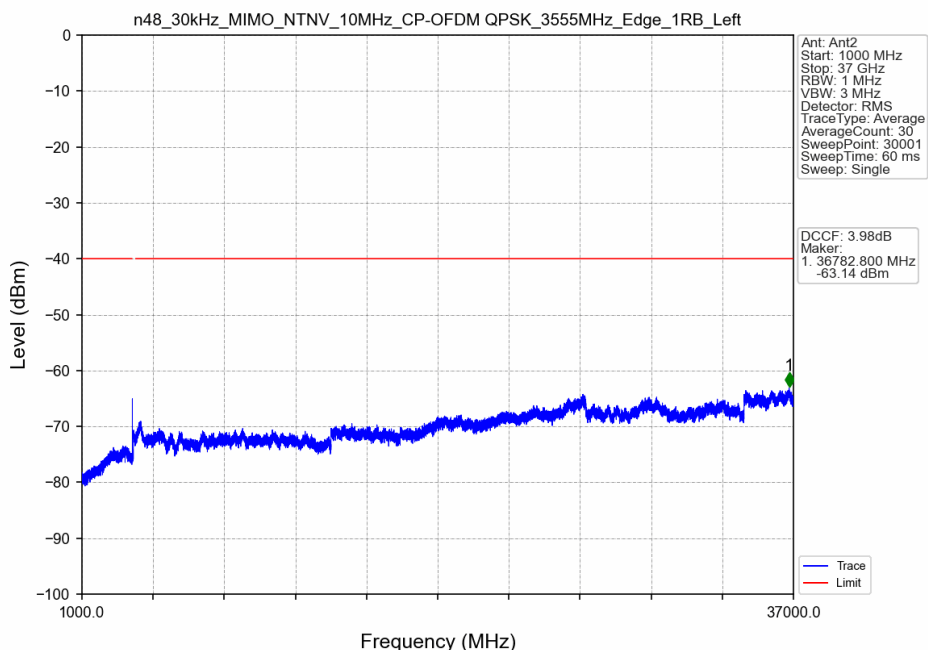
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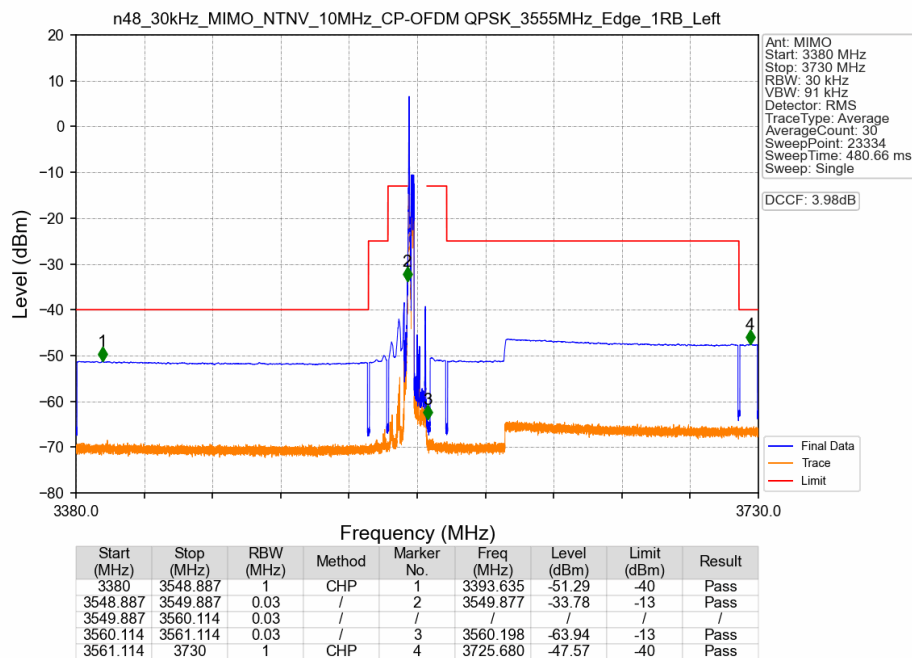


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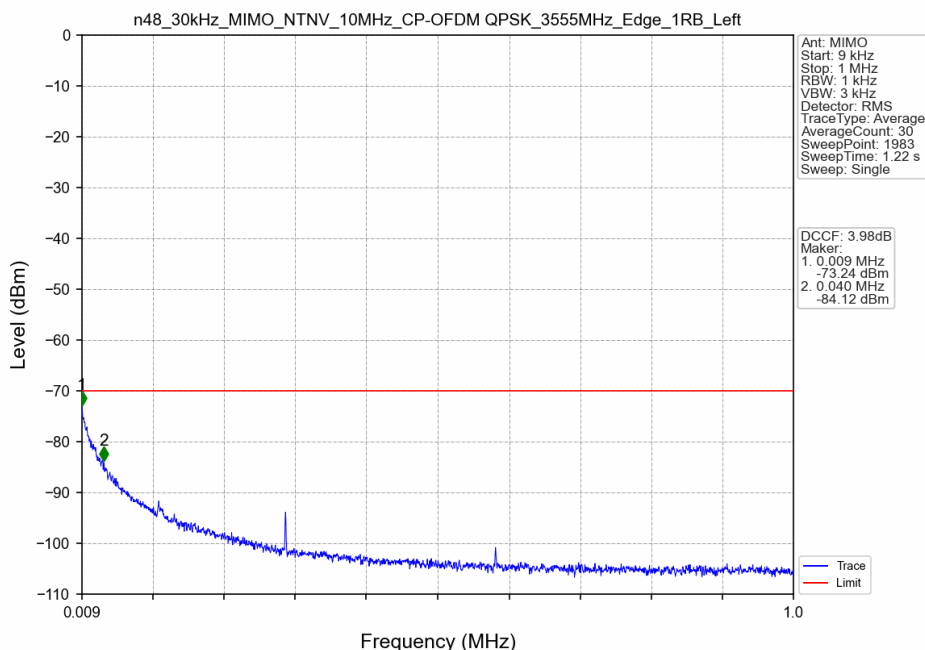
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left



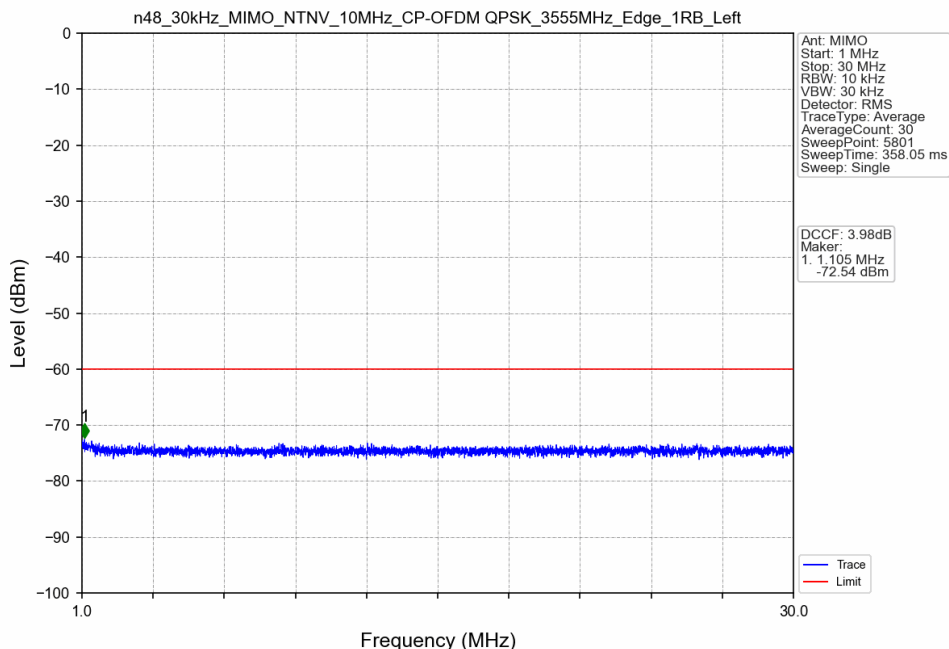
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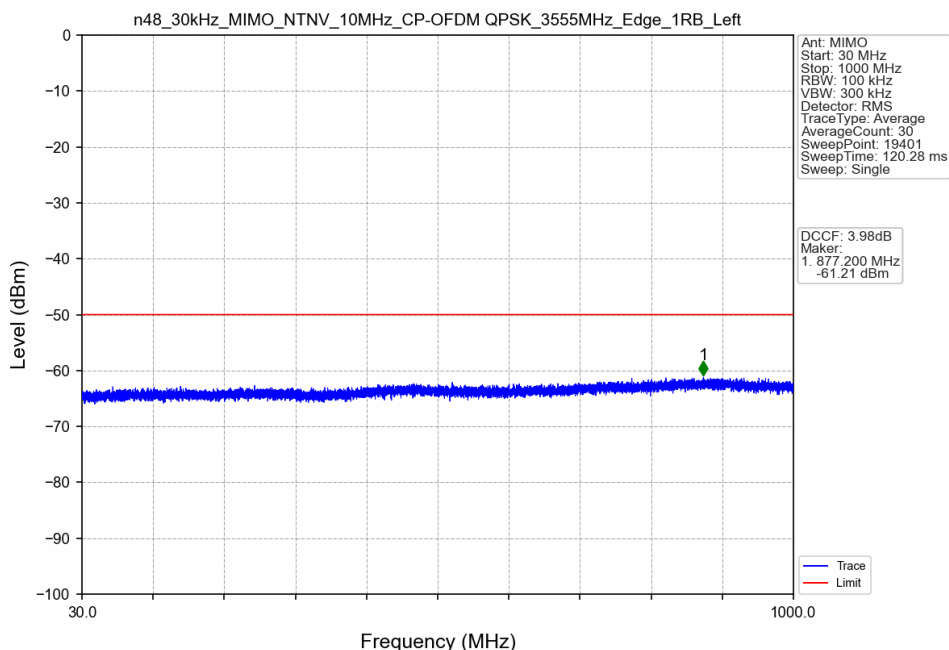
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n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left



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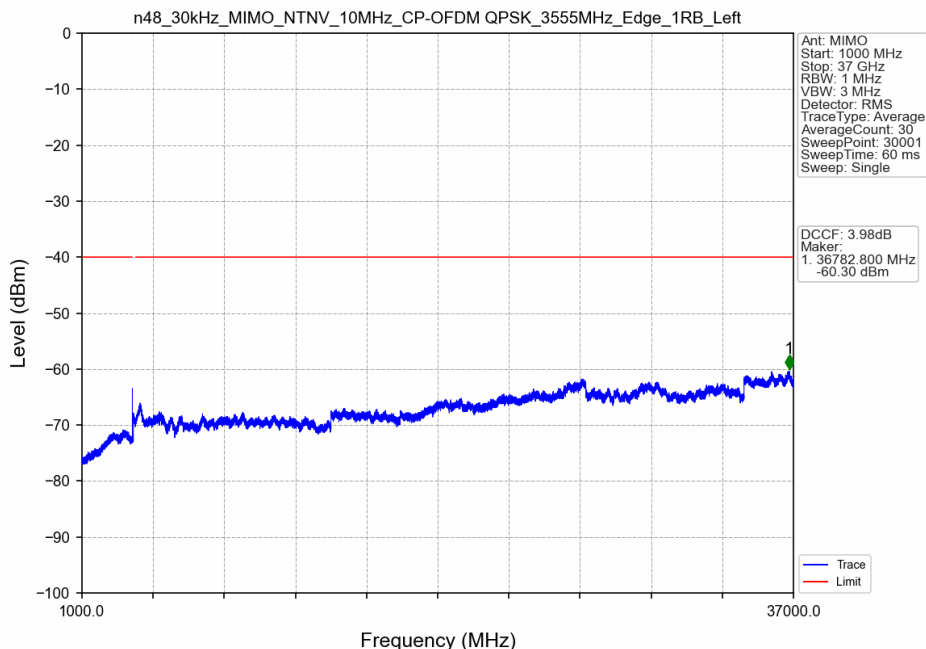


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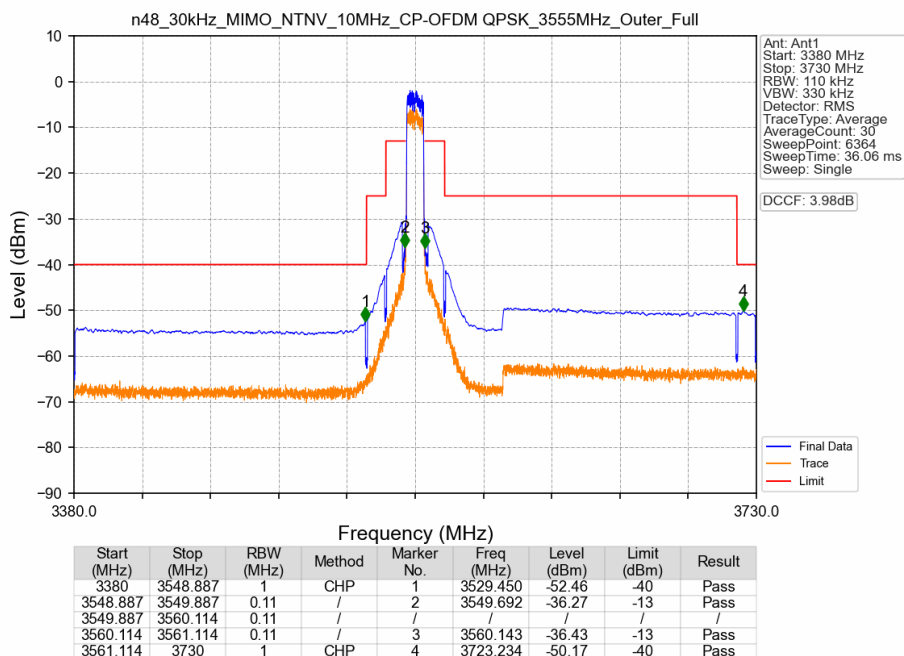
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Edge\_1RB\_Left



### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Outer\_Full

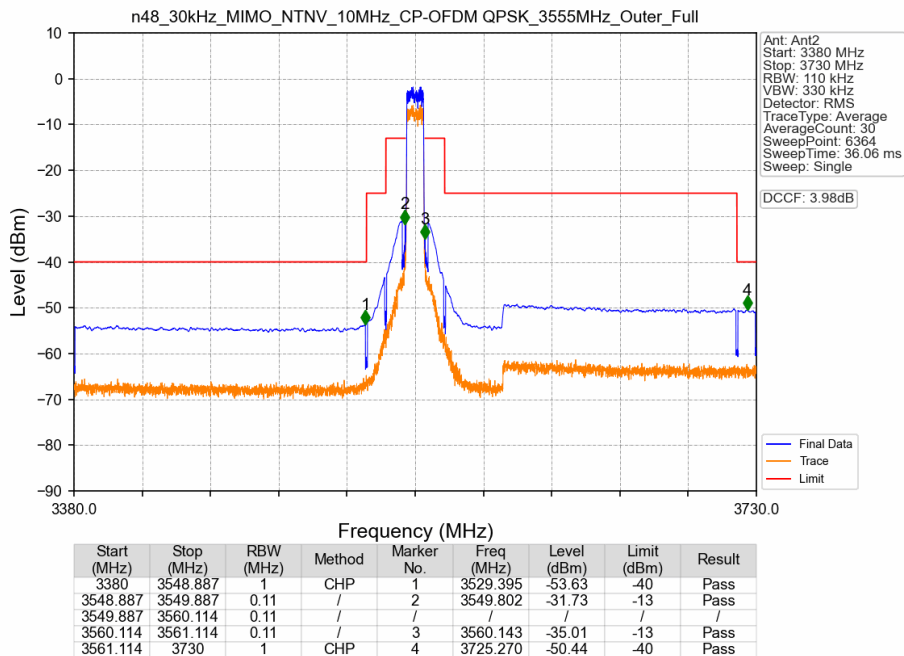


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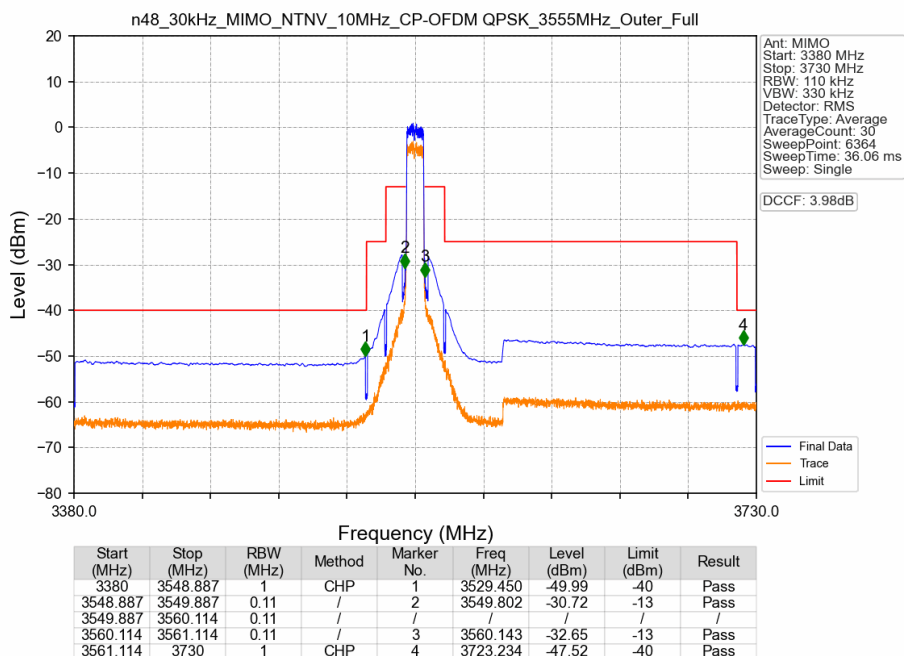
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Outer\_Full



### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Outer\_Full

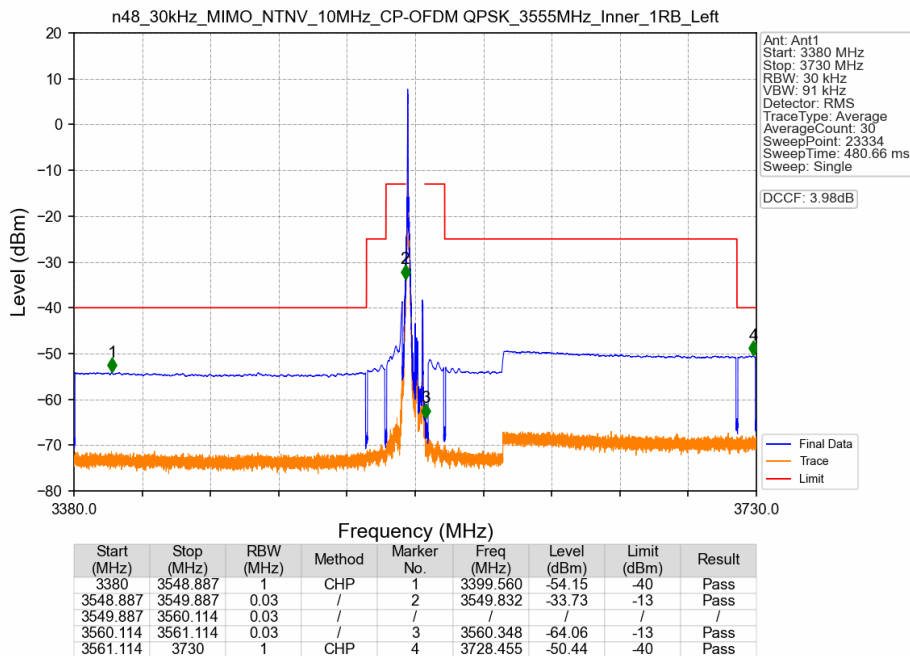


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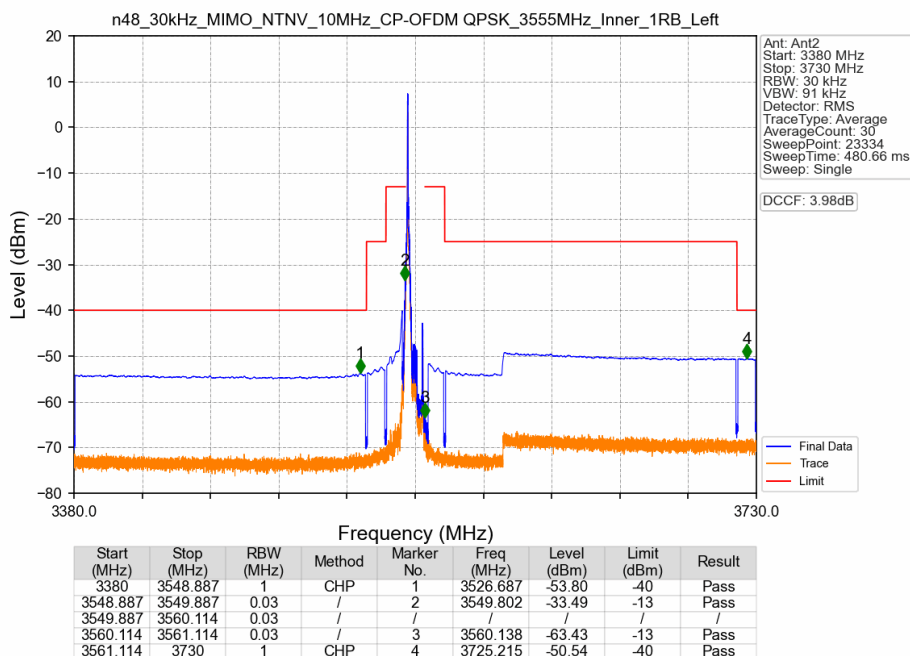
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Inner\_1RB\_Left



### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Inner\_1RB\_Left



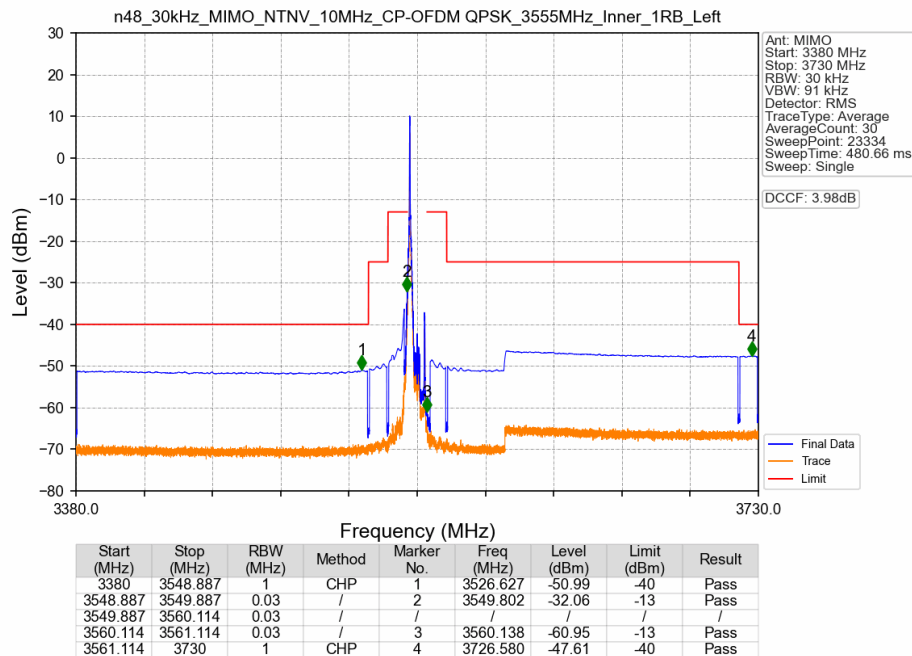
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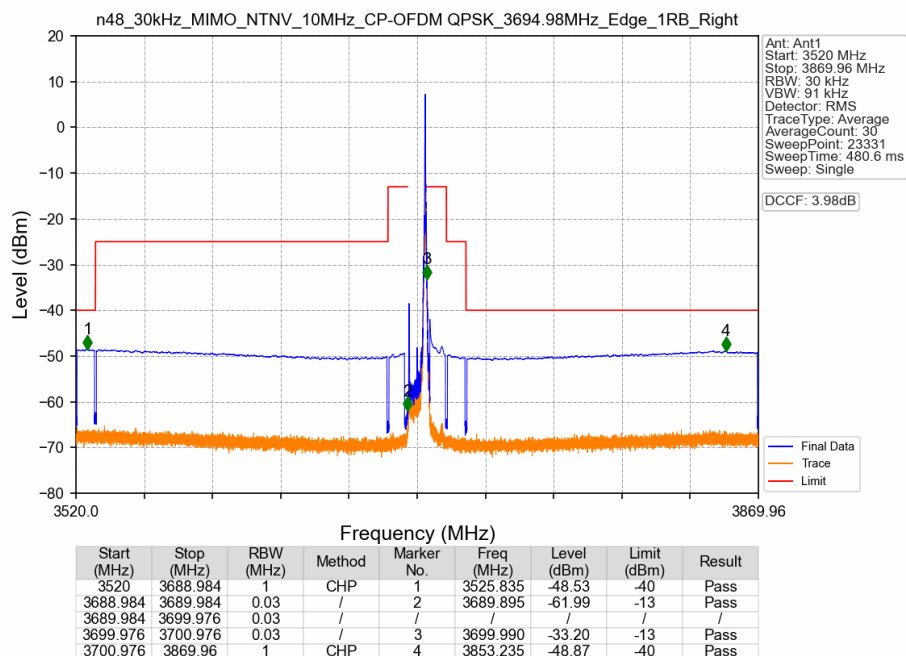
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right



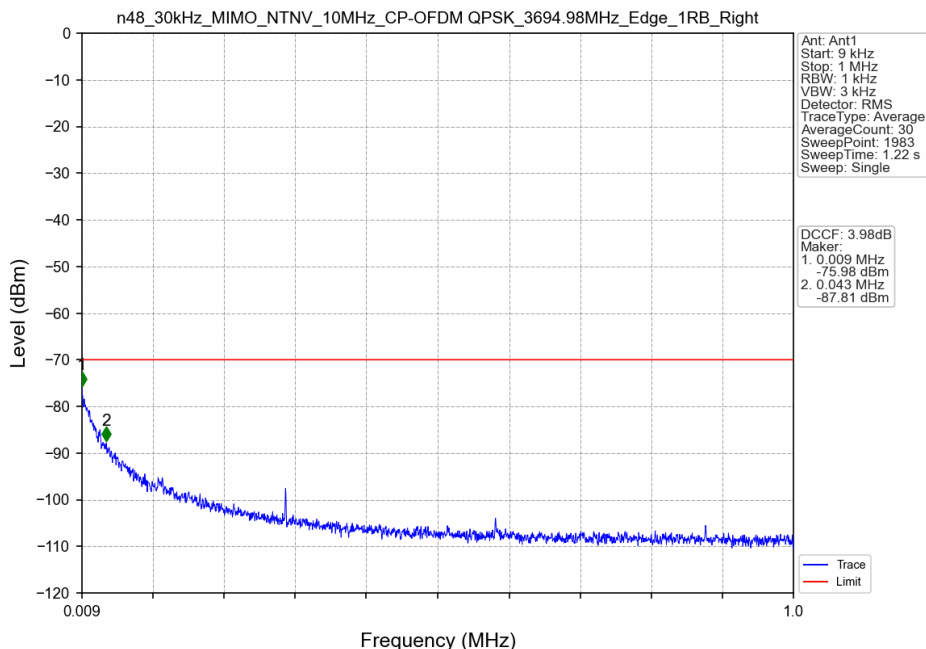
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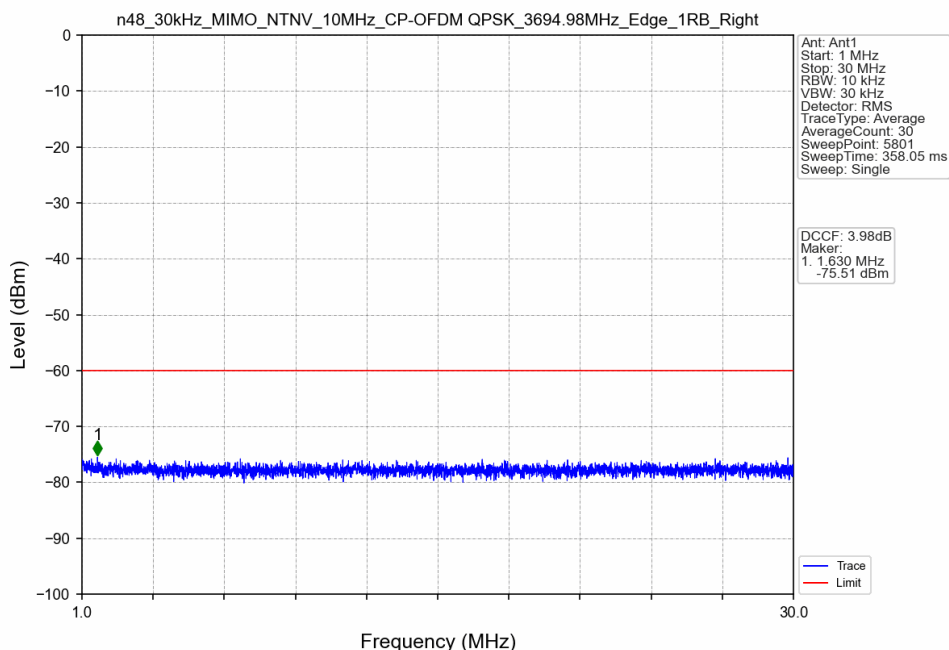
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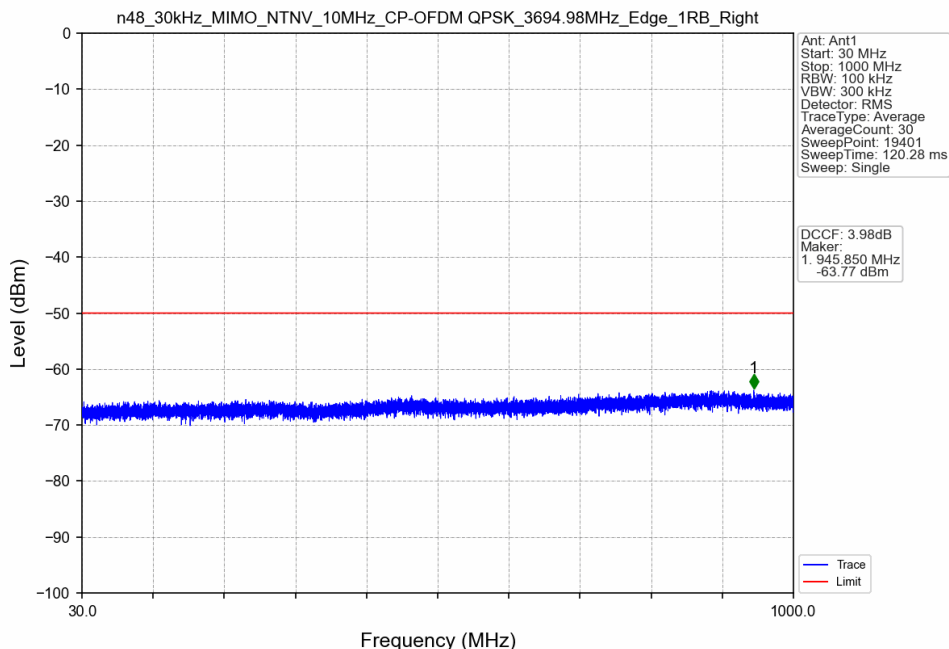


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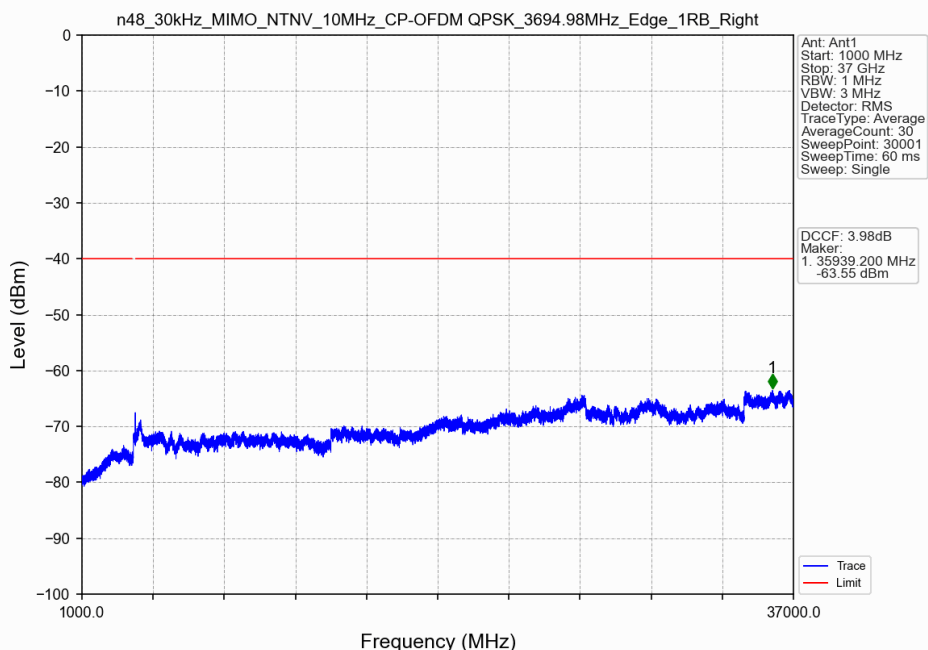
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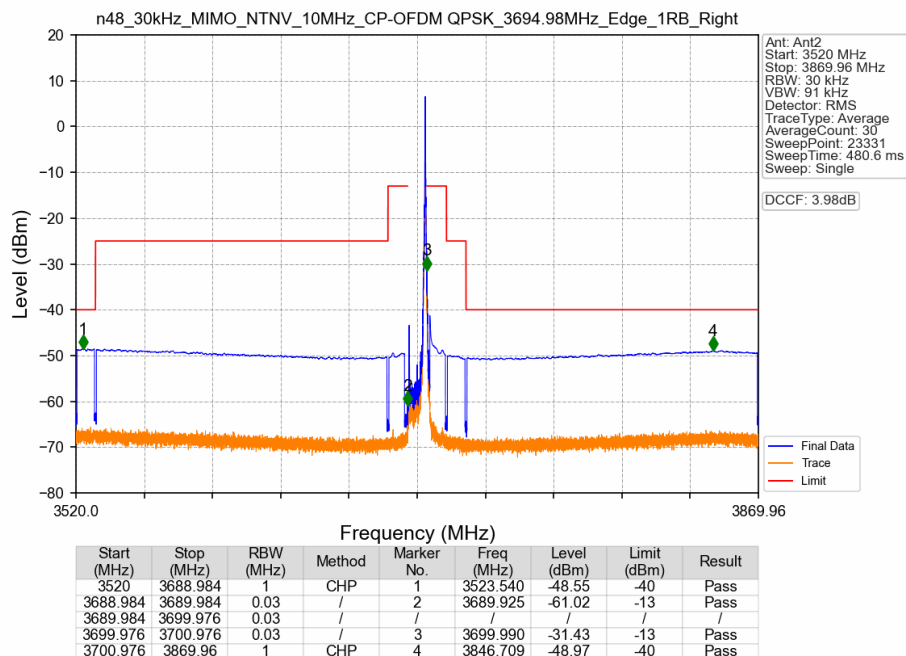


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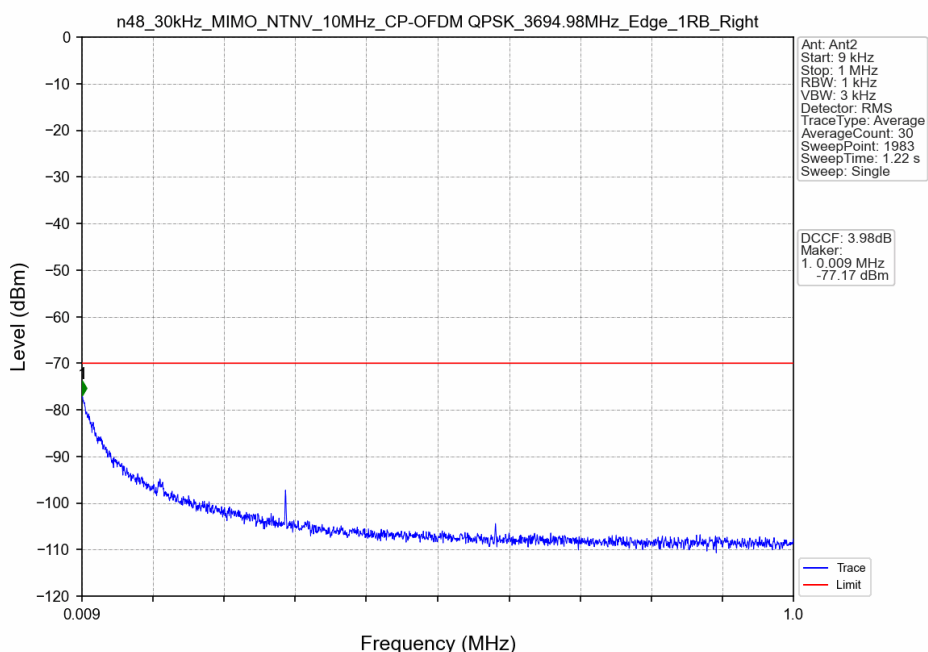
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right



### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right

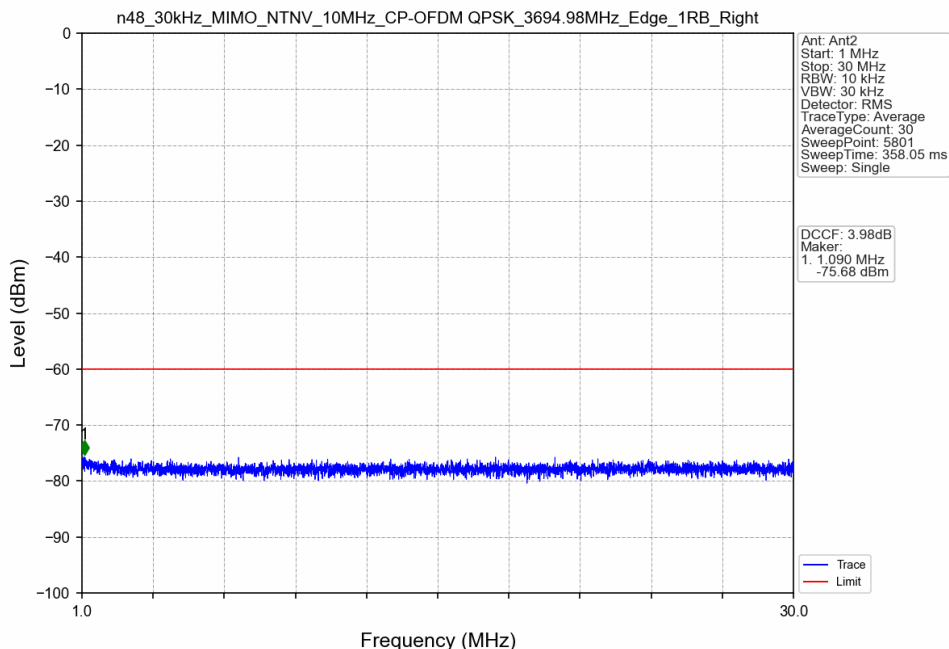


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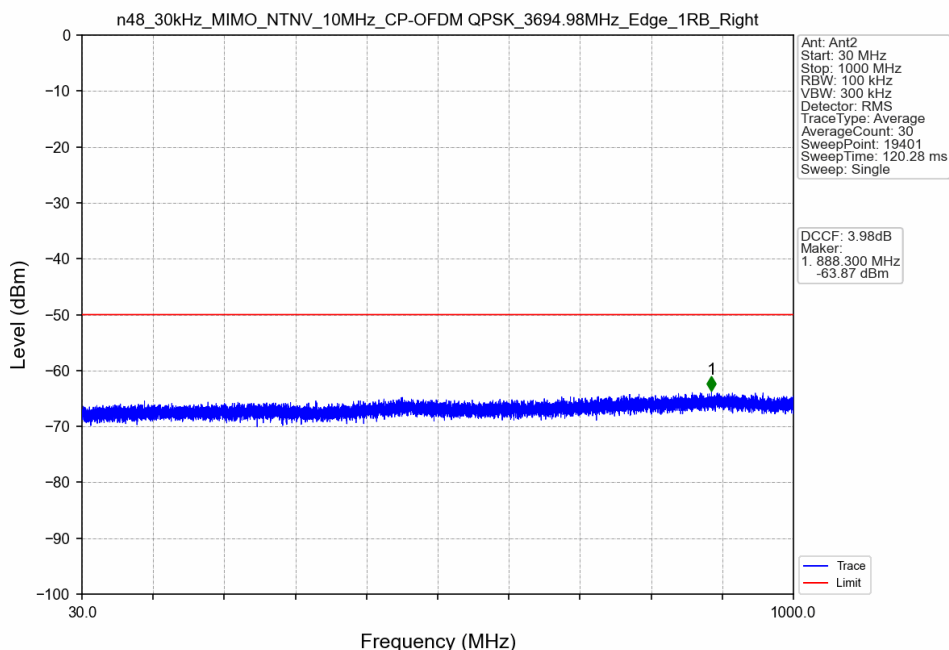
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n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right

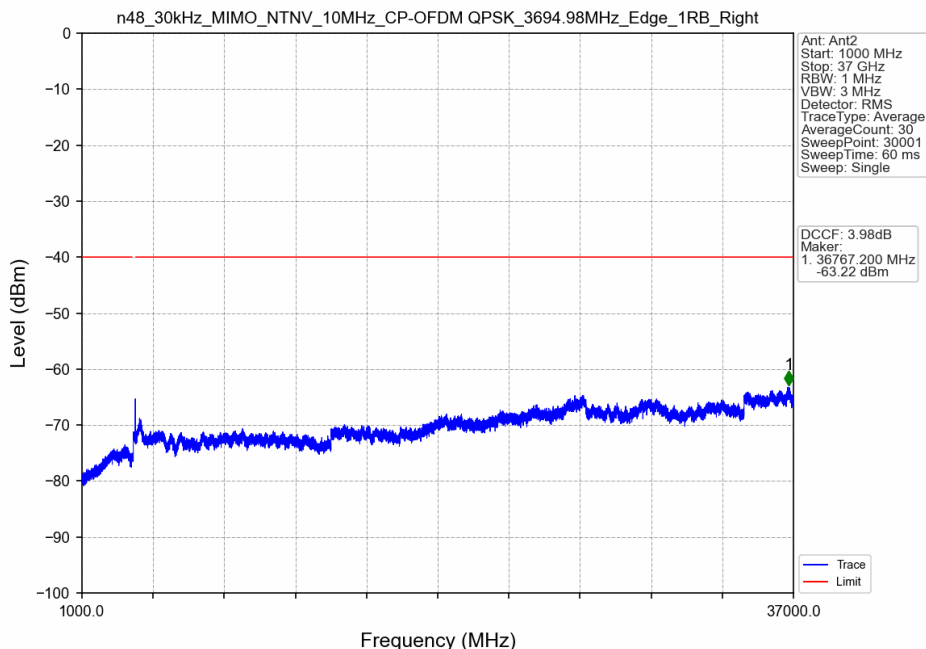


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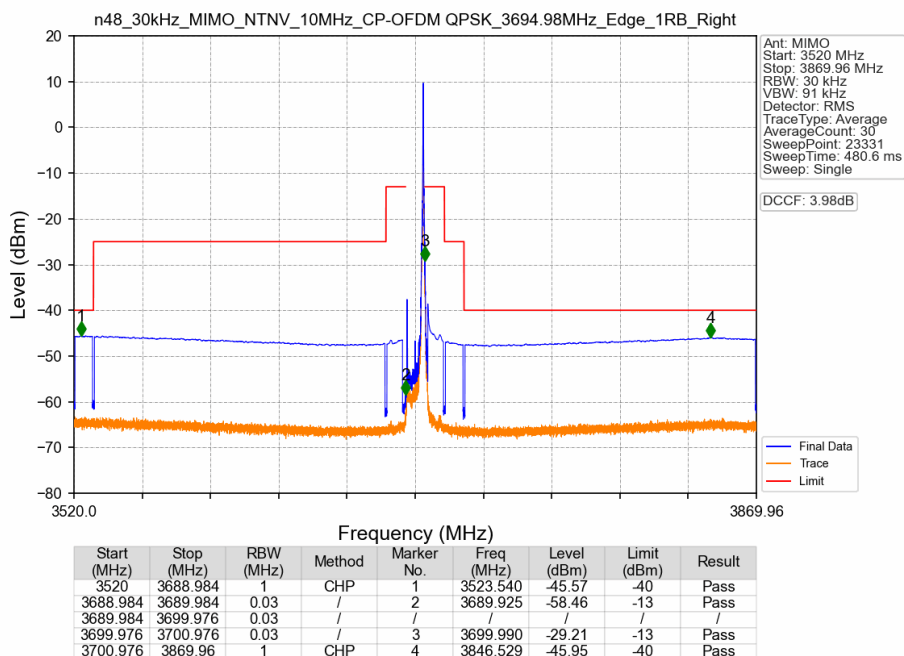
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### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right



### n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right



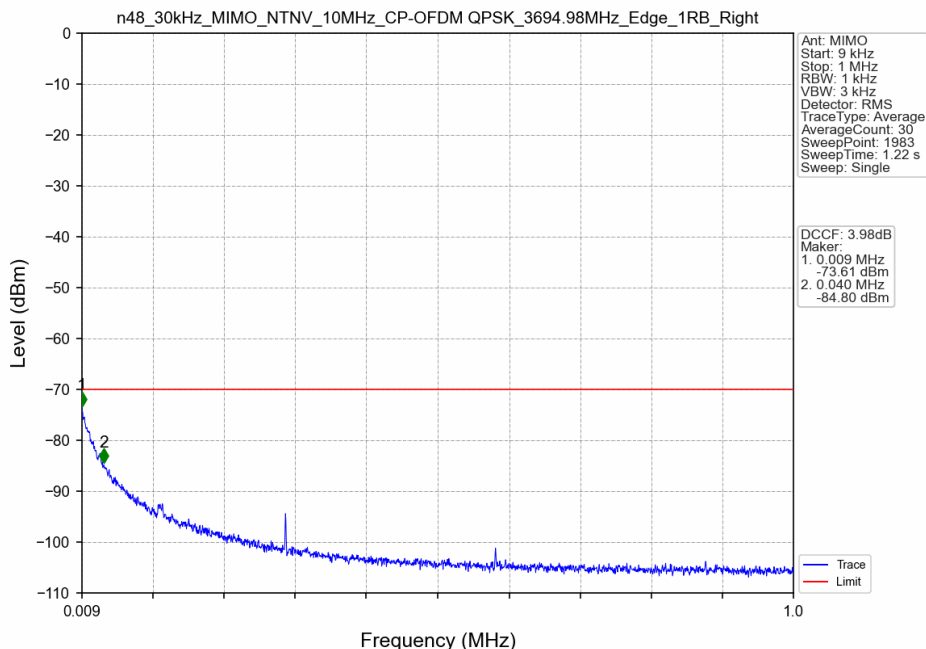
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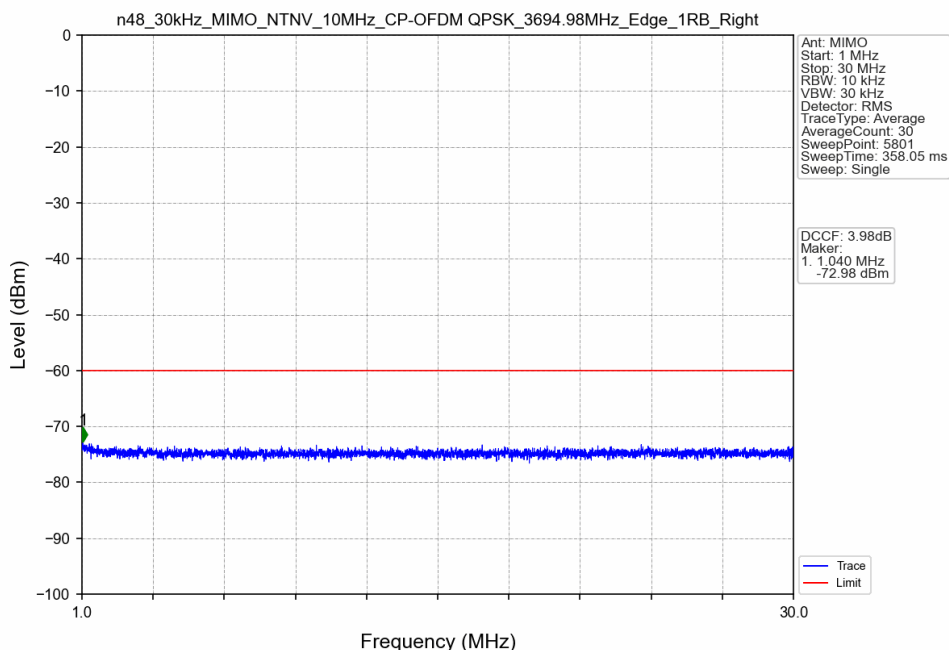
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n48\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3694.98MHz\_Edge\_1RB\_Right



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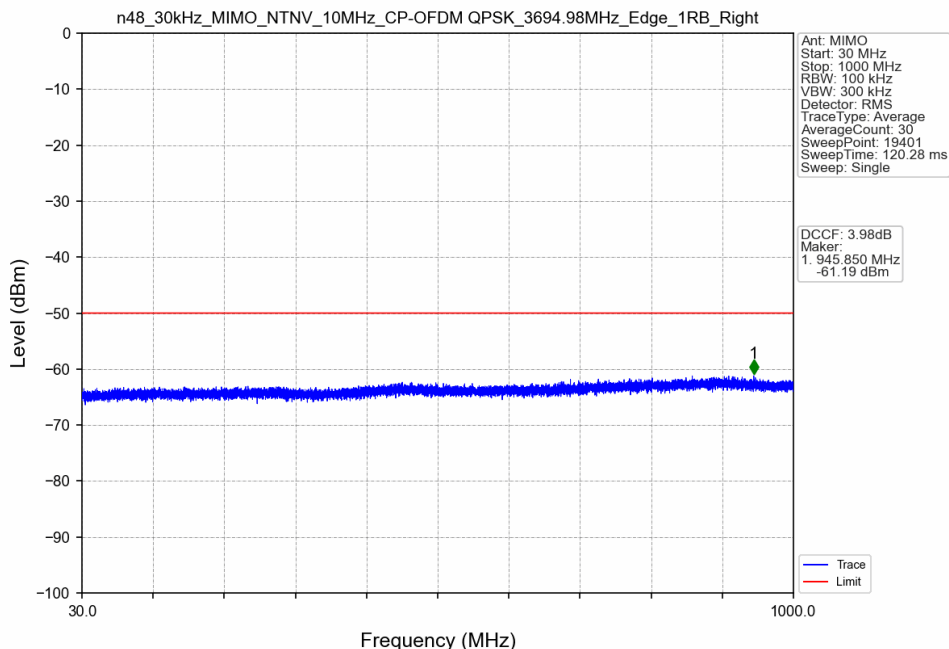


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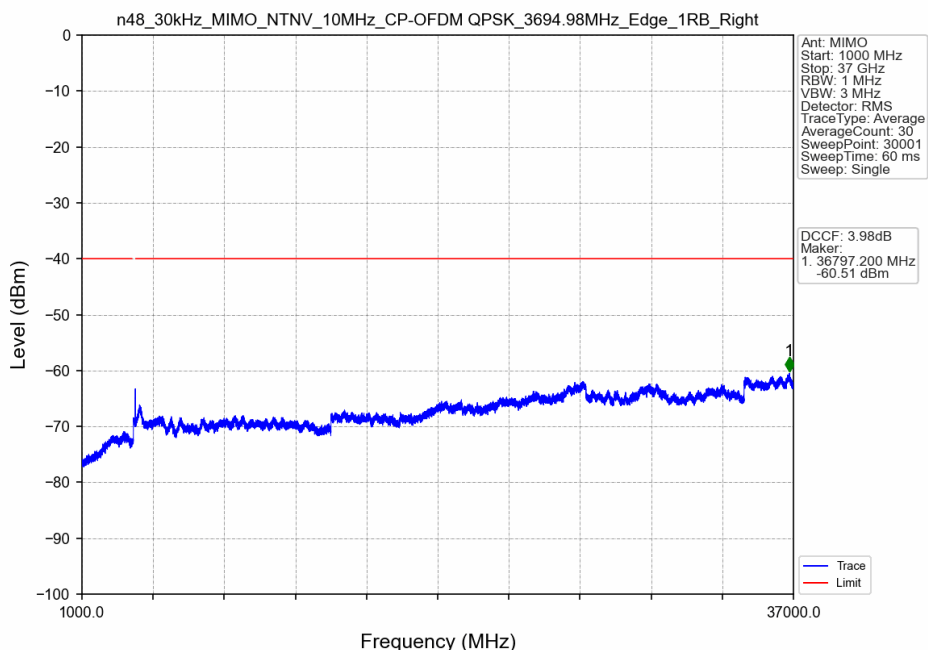
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