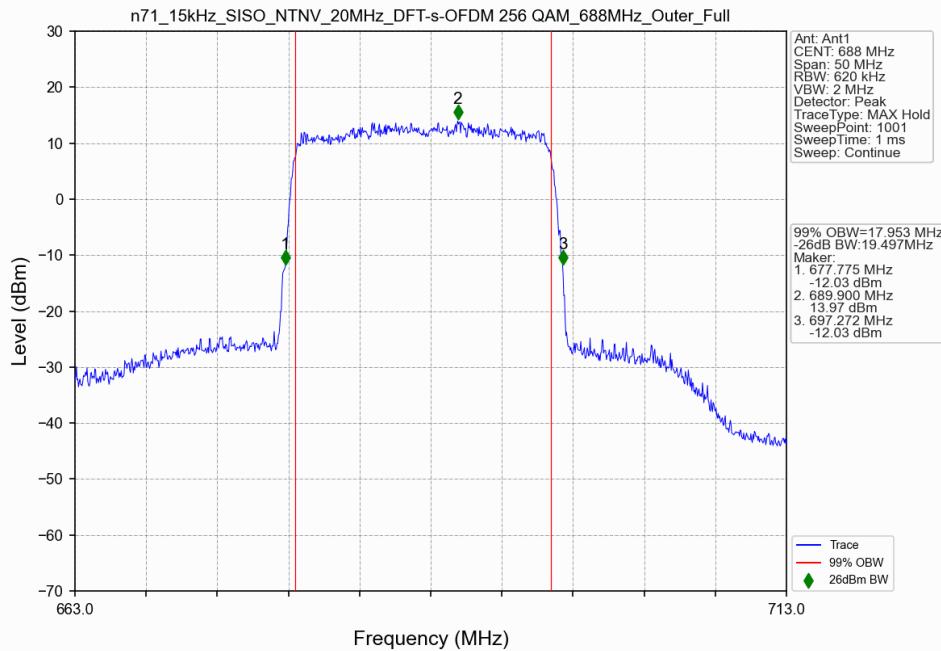
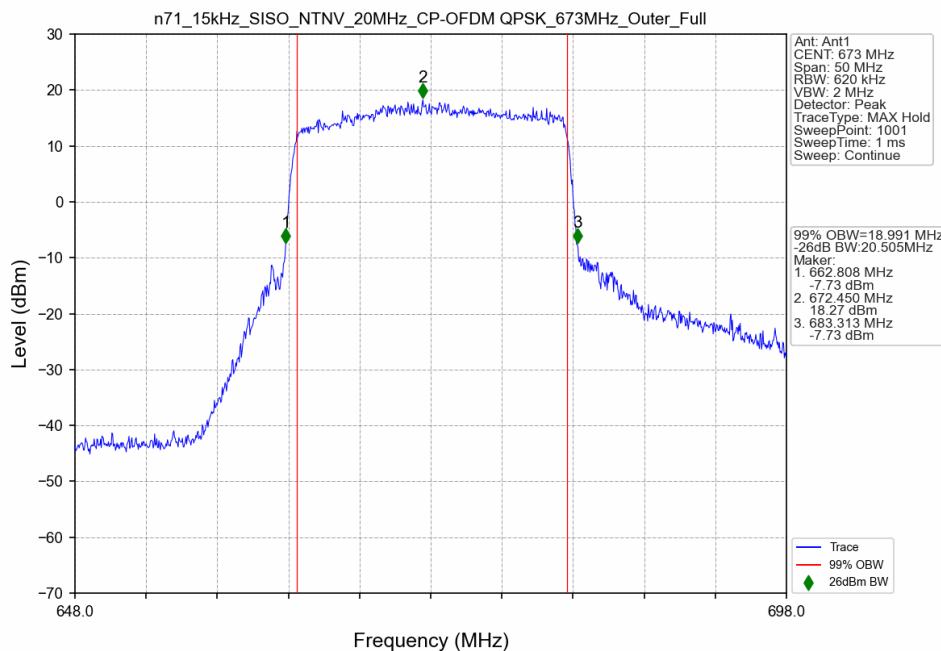


## n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_688MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_673MHz\_Outer\_Full



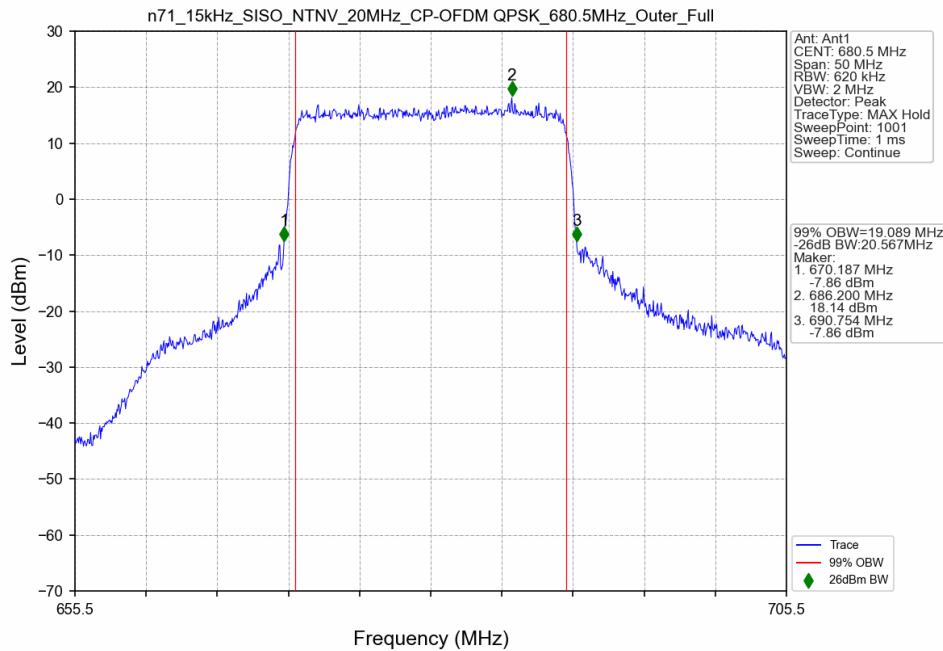
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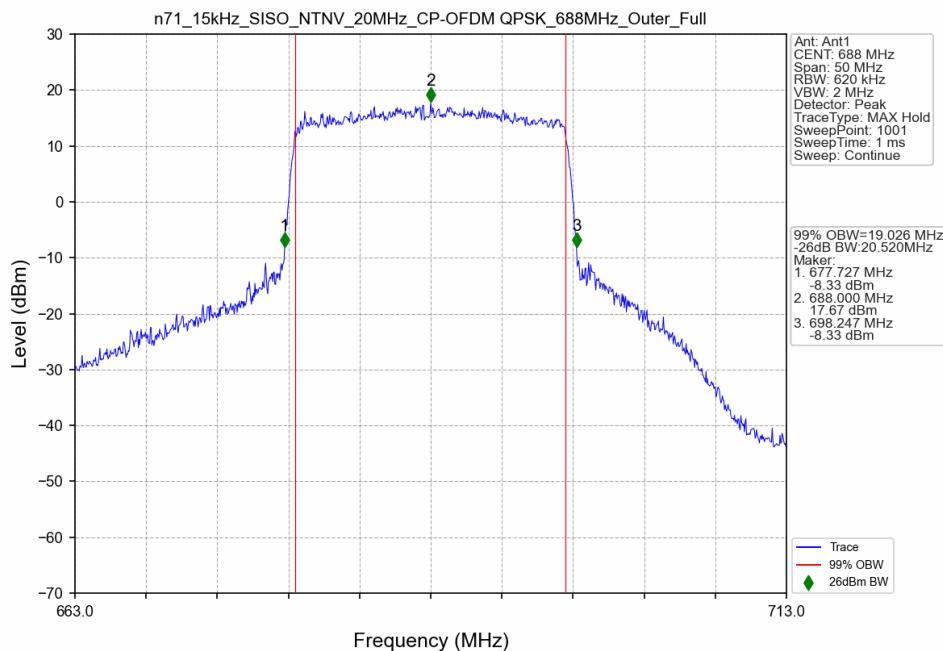
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## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_680.5MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_688MHz\_Outer\_Full



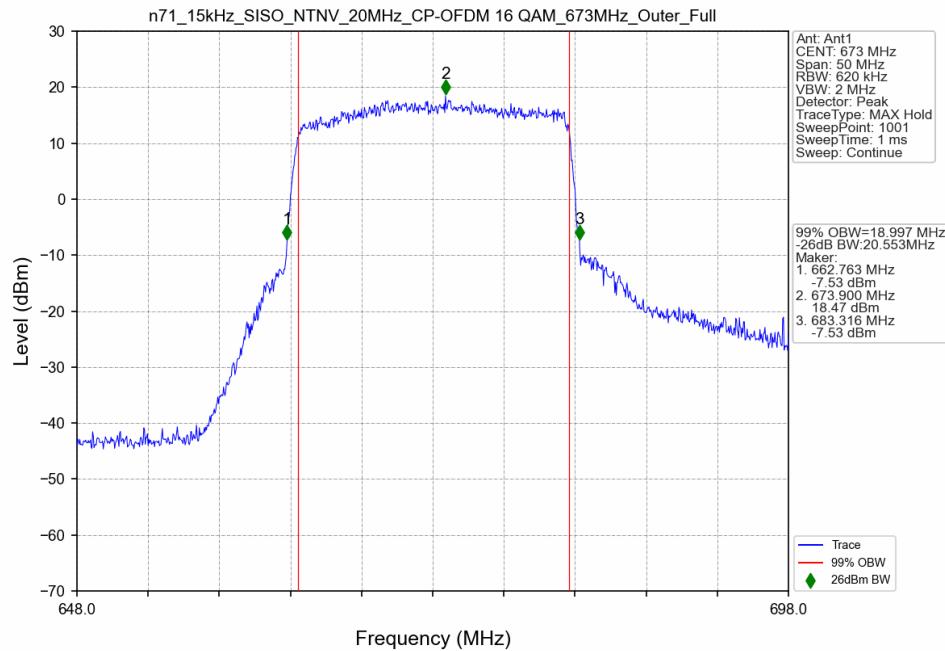
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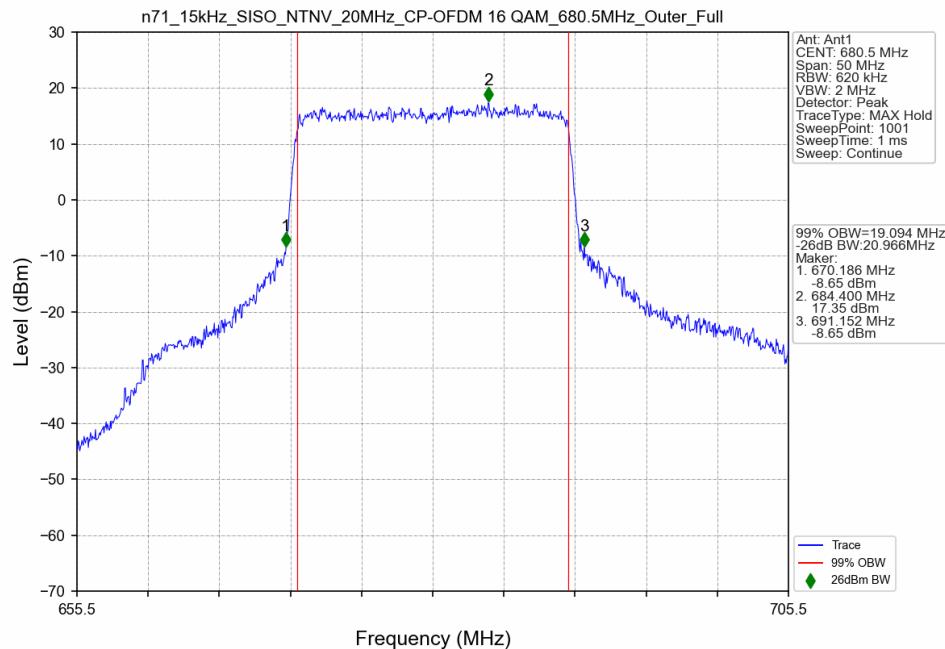
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## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_673MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_680.5MHz\_Outer\_Full

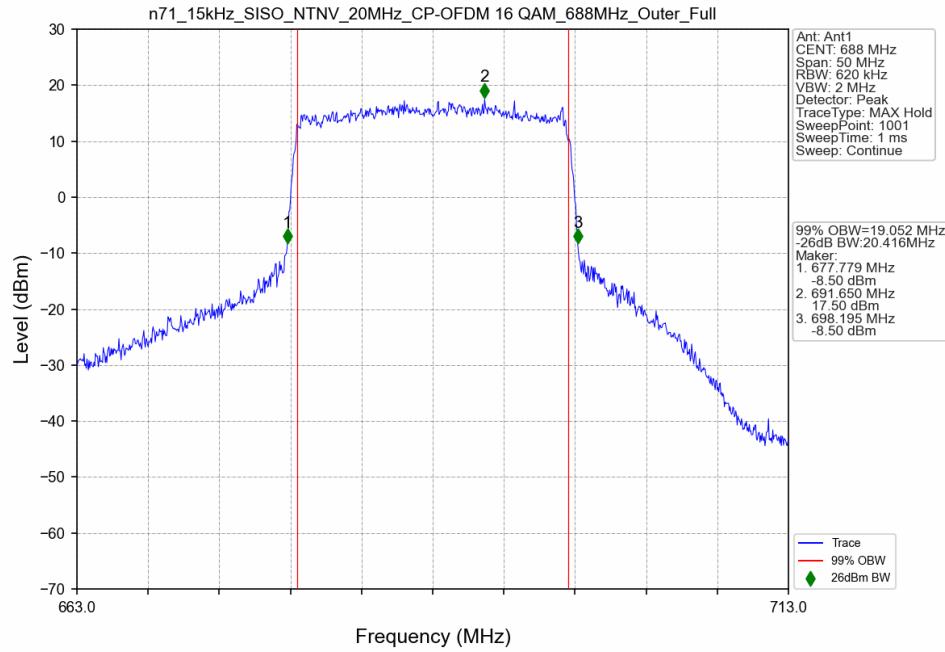


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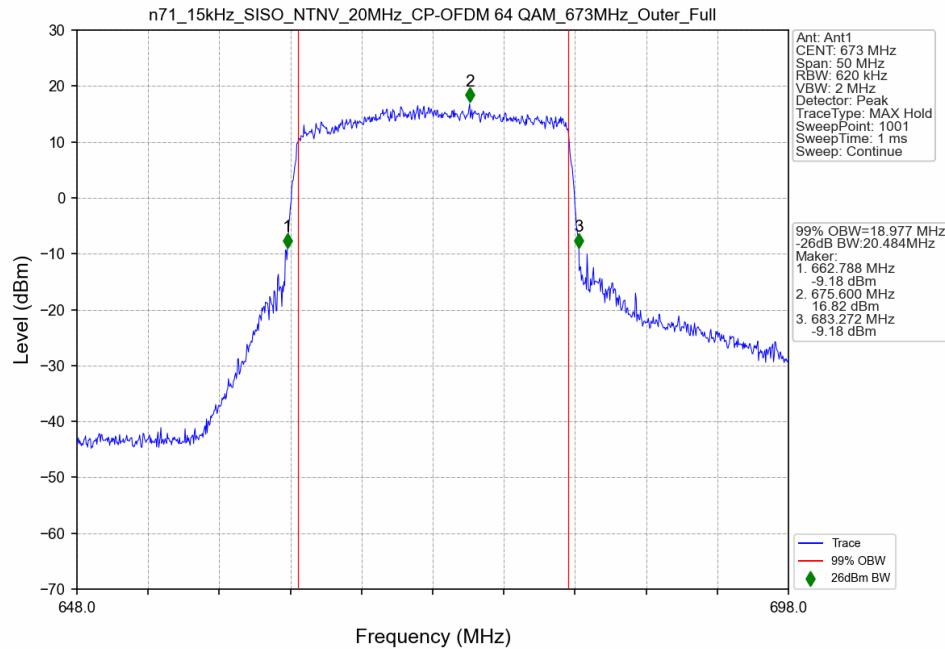
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## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_688MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_673MHz\_Outer\_Full



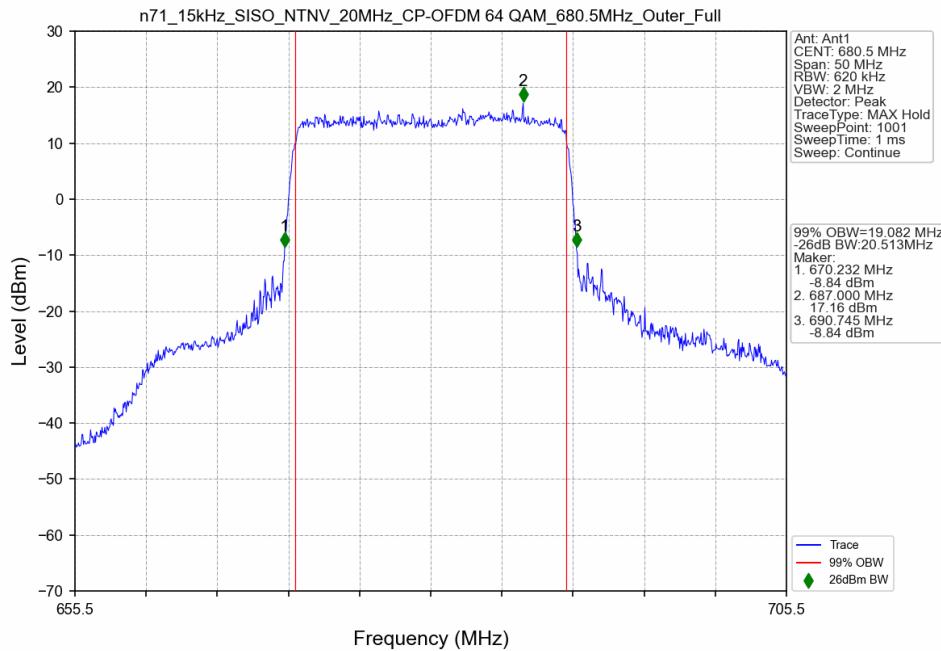
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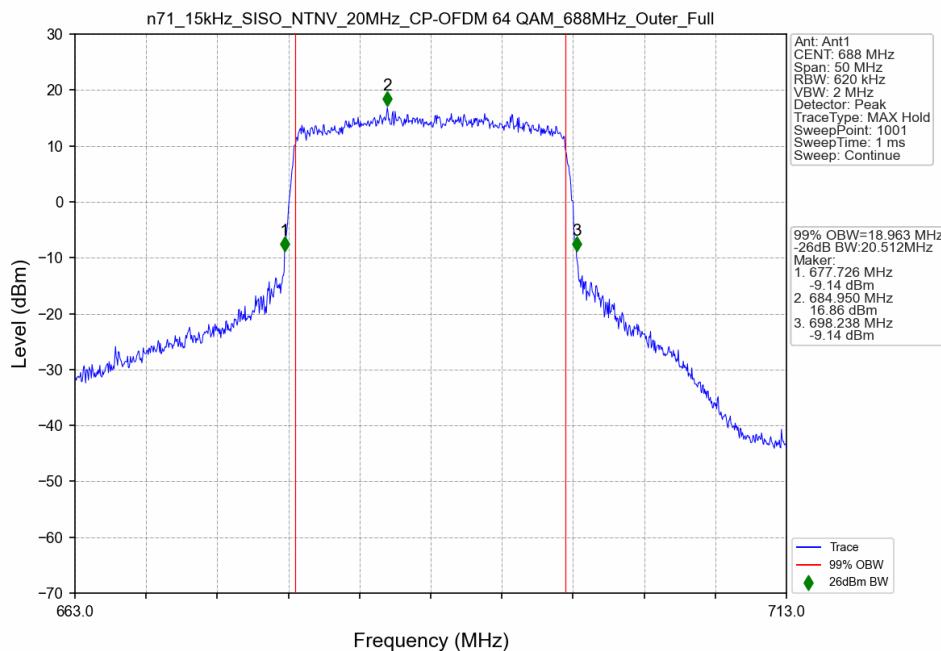
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## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_680.5MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_688MHz\_Outer\_Full



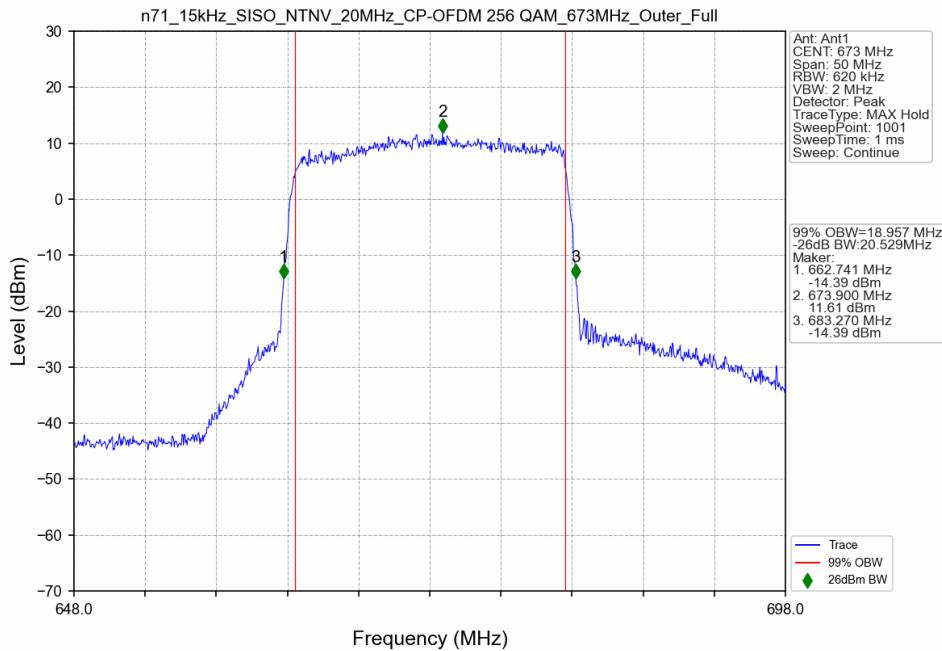
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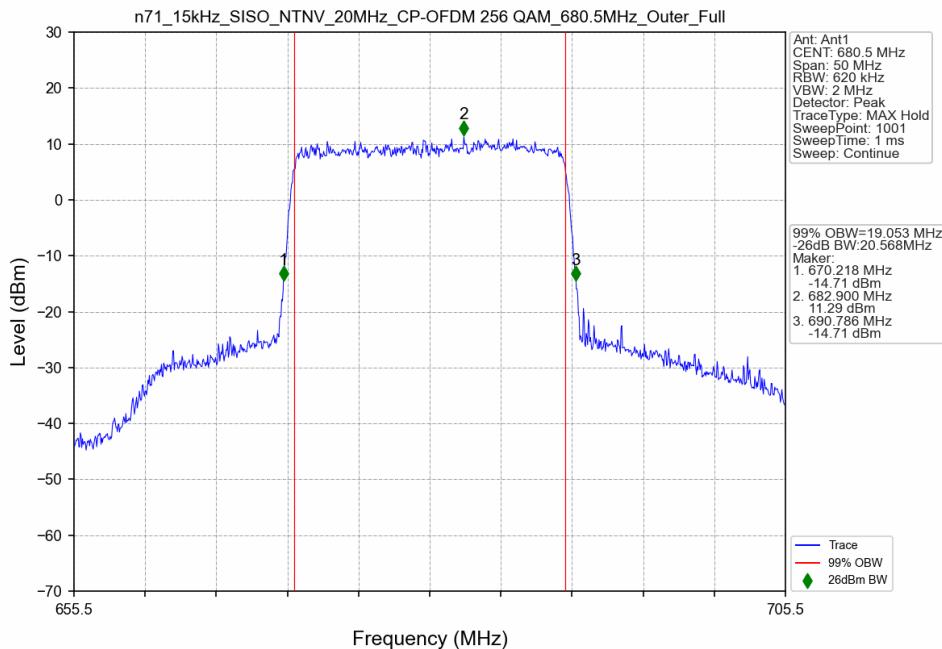
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## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_673MHz\_Outer\_Full



## n71\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_680.5MHz\_Outer\_Full

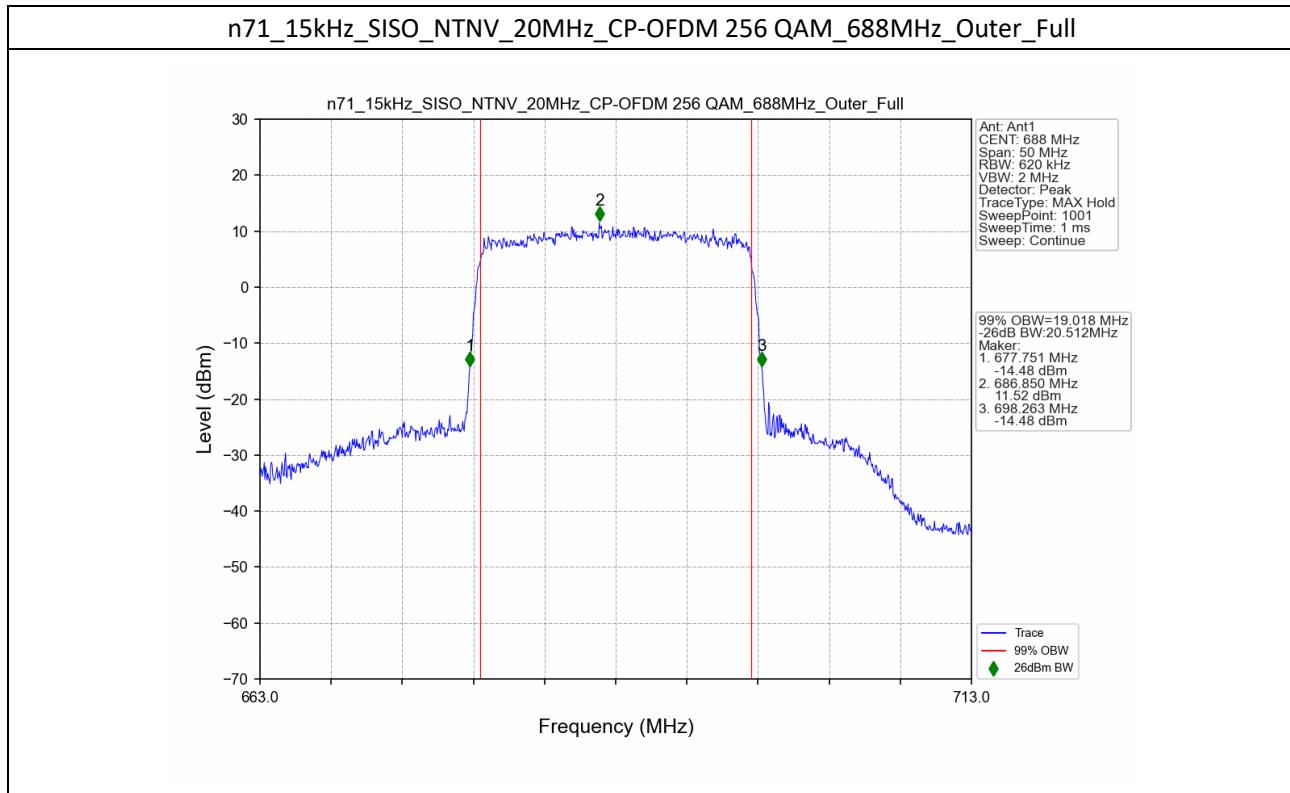


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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 15k\_SISO\_5MHz\_NTNV

Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	665.5	Outer_Full	4.72	/	/	<=13	Pass
	680.5	Outer_Full	4.22	/	/	<=13	Pass
	695.5	Outer_Full	4.37	/	/	<=13	Pass
DFT-s-OFDM QPSK	665.5	Outer_Full	5.13	/	/	<=13	Pass
	680.5	Outer_Full	5.23	/	/	<=13	Pass
	695.5	Outer_Full	5.28	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	665.5	Outer_Full	6.27	/	/	<=13	Pass
	680.5	Outer_Full	5.63	/	/	<=13	Pass
	695.5	Outer_Full	5.97	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	665.5	Outer_Full	7.24	/	/	<=13	Pass
	680.5	Outer_Full	6.08	/	/	<=13	Pass
	695.5	Outer_Full	7.61	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	665.5	Outer_Full	6.98	/	/	<=13	Pass
	680.5	Outer_Full	6.77	/	/	<=13	Pass
	695.5	Outer_Full	6.70	/	/	<=13	Pass
CP-OFDM QPSK	665.5	Outer_Full	7.25	/	/	<=13	Pass
	680.5	Outer_Full	7.39	/	/	<=13	Pass
	695.5	Outer_Full	7.34	/	/	<=13	Pass
CP-OFDM 16 QAM	665.5	Outer_Full	8.57	/	/	<=13	Pass
	680.5	Outer_Full	8.49	/	/	<=13	Pass
	695.5	Outer_Full	8.32	/	/	<=13	Pass
CP-OFDM 64 QAM	665.5	Outer_Full	7.67	/	/	<=13	Pass
	680.5	Outer_Full	9.04	/	/	<=13	Pass
	695.5	Outer_Full	7.59	/	/	<=13	Pass
CP-OFDM 256 QAM	665.5	Outer_Full	9.47	/	/	<=13	Pass
	680.5	Outer_Full	8.97	/	/	<=13	Pass
	695.5	Outer_Full	9.25	/	/	<=13	Pass

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#### 4.1.2 15k\_SISO\_10MHz\_NTNV

5G NR n71 SCS=15kHz SISO 10MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	668	Outer_Full	4.59	/	/	<=13	Pass
	680.5	Outer_Full	4.30	/	/	<=13	Pass
	693	Outer_Full	3.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	668	Outer_Full	4.80	/	/	<=13	Pass
	680.5	Outer_Full	5.30	/	/	<=13	Pass
	693	Outer_Full	4.97	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	668	Outer_Full	5.88	/	/	<=13	Pass
	680.5	Outer_Full	5.58	/	/	<=13	Pass
	693	Outer_Full	6.48	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	668	Outer_Full	6.69	/	/	<=13	Pass
	680.5	Outer_Full	6.10	/	/	<=13	Pass
	693	Outer_Full	5.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	668	Outer_Full	6.78	/	/	<=13	Pass
	680.5	Outer_Full	8.85	/	/	<=13	Pass
	693	Outer_Full	6.56	/	/	<=13	Pass
CP-OFDM QPSK	668	Outer_Full	7.15	/	/	<=13	Pass
	680.5	Outer_Full	7.47	/	/	<=13	Pass
	693	Outer_Full	7.22	/	/	<=13	Pass
CP-OFDM 16 QAM	668	Outer_Full	7.11	/	/	<=13	Pass
	680.5	Outer_Full	7.46	/	/	<=13	Pass
	693	Outer_Full	8.35	/	/	<=13	Pass
CP-OFDM 64 QAM	668	Outer_Full	7.80	/	/	<=13	Pass
	680.5	Outer_Full	8.05	/	/	<=13	Pass
	693	Outer_Full	7.80	/	/	<=13	Pass
CP-OFDM 256 QAM	668	Outer_Full	10.20	/	/	<=13	Pass
	680.5	Outer_Full	8.73	/	/	<=13	Pass
	693	Outer_Full	8.24	/	/	<=13	Pass

#### 4.1.3 15k\_SISO\_15MHz\_NTNV

5G NR n71 SCS=15kHz SISO 15MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	



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DFT-s-OFDM PI/2 BPSK	670.5	Outer_Full	4.28	/	/	<=13	Pass
	680.5	Outer_Full	4.37	/	/	<=13	Pass
	690.5	Outer_Full	4.03	/	/	<=13	Pass
DFT-s-OFDM QPSK	670.5	Outer_Full	4.73	/	/	<=13	Pass
	680.5	Outer_Full	4.67	/	/	<=13	Pass
	690.5	Outer_Full	4.41	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	670.5	Outer_Full	6.11	/	/	<=13	Pass
	680.5	Outer_Full	5.62	/	/	<=13	Pass
	690.5	Outer_Full	7.88	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	670.5	Outer_Full	6.27	/	/	<=13	Pass
	680.5	Outer_Full	6.16	/	/	<=13	Pass
	690.5	Outer_Full	5.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	670.5	Outer_Full	6.69	/	/	<=13	Pass
	680.5	Outer_Full	6.73	/	/	<=13	Pass
	690.5	Outer_Full	6.53	/	/	<=13	Pass
CP-OFDM QPSK	670.5	Outer_Full	7.12	/	/	<=13	Pass
	680.5	Outer_Full	6.73	/	/	<=13	Pass
	690.5	Outer_Full	6.46	/	/	<=13	Pass
CP-OFDM 16 QAM	670.5	Outer_Full	8.12	/	/	<=13	Pass
	680.5	Outer_Full	6.71	/	/	<=13	Pass
	690.5	Outer_Full	7.46	/	/	<=13	Pass
CP-OFDM 64 QAM	670.5	Outer_Full	7.99	/	/	<=13	Pass
	680.5	Outer_Full	8.12	/	/	<=13	Pass
	690.5	Outer_Full	7.23	/	/	<=13	Pass
CP-OFDM 256 QAM	670.5	Outer_Full	8.35	/	/	<=13	Pass
	680.5	Outer_Full	8.26	/	/	<=13	Pass
	690.5	Outer_Full	8.19	/	/	<=13	Pass

#### 4.1.4 15k\_SISO\_20MHz\_NTNV

5G NR n71 SCS=15kHz SISO 20MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	673	Outer_Full	3.90	/	/	<=13	Pass
	680.5	Outer_Full	4.08	/	/	<=13	Pass
	688	Outer_Full	8.07	/	/	<=13	Pass
DFT-s-OFDM QPSK	673	Outer_Full	4.75	/	/	<=13	Pass
	680.5	Outer_Full	4.93	/	/	<=13	Pass



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	688	Outer_Full	4.80	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	673	Outer_Full	5.77	/	/	<=13	Pass
	680.5	Outer_Full	5.46	/	/	<=13	Pass
	688	Outer_Full	5.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	673	Outer_Full	6.20	/	/	<=13	Pass
	680.5	Outer_Full	6.00	/	/	<=13	Pass
	688	Outer_Full	6.13	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	673	Outer_Full	6.64	/	/	<=13	Pass
	680.5	Outer_Full	6.69	/	/	<=13	Pass
	688	Outer_Full	6.49	/	/	<=13	Pass
CP-OFDM QPSK	673	Outer_Full	7.14	/	/	<=13	Pass
	680.5	Outer_Full	7.10	/	/	<=13	Pass
	688	Outer_Full	10.08	/	/	<=13	Pass
CP-OFDM 16 QAM	673	Outer_Full	7.10	/	/	<=13	Pass
	680.5	Outer_Full	7.04	/	/	<=13	Pass
	688	Outer_Full	6.96	/	/	<=13	Pass
CP-OFDM 64 QAM	673	Outer_Full	7.67	/	/	<=13	Pass
	680.5	Outer_Full	7.80	/	/	<=13	Pass
	688	Outer_Full	7.53	/	/	<=13	Pass
CP-OFDM 256 QAM	673	Outer_Full	9.81	/	/	<=13	Pass
	680.5	Outer_Full	8.27	/	/	<=13	Pass
	688	Outer_Full	9.55	/	/	<=13	Pass



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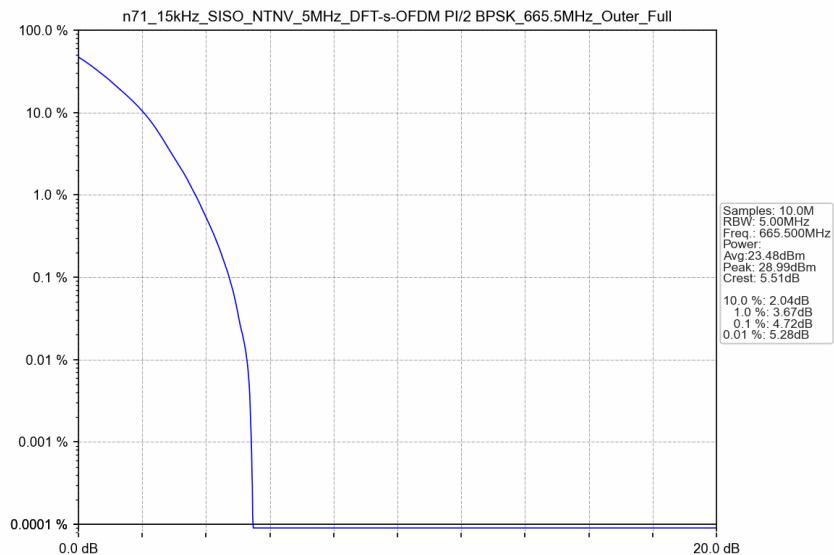
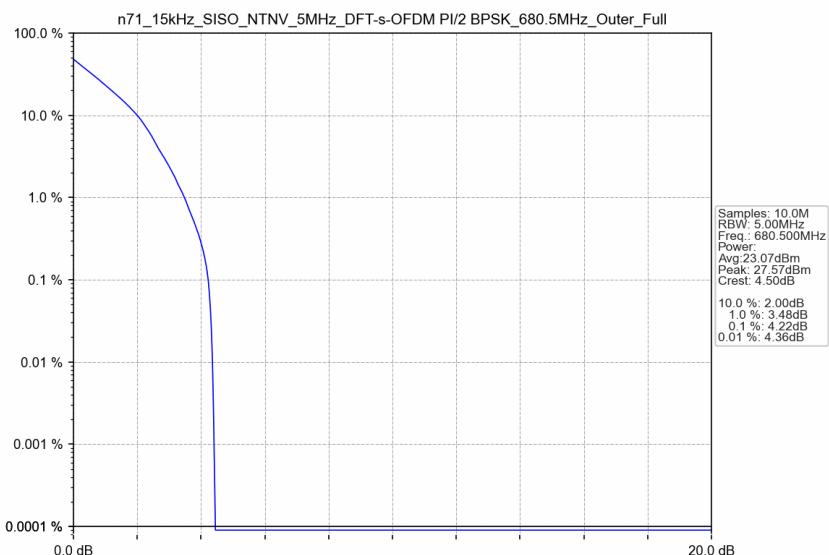
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## 4.2 Test Graph

### 4.2.1 15k\_SISO\_5MHz\_NTNV

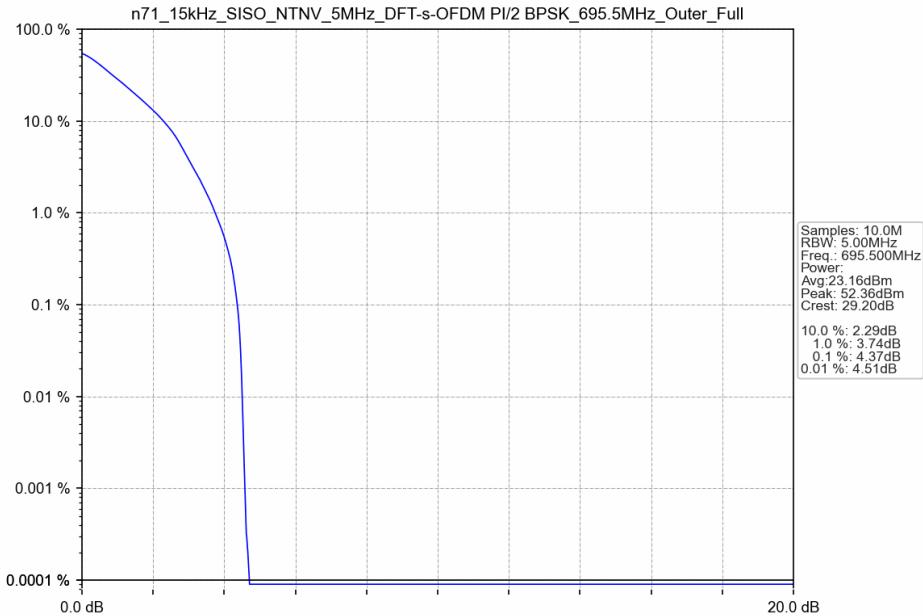
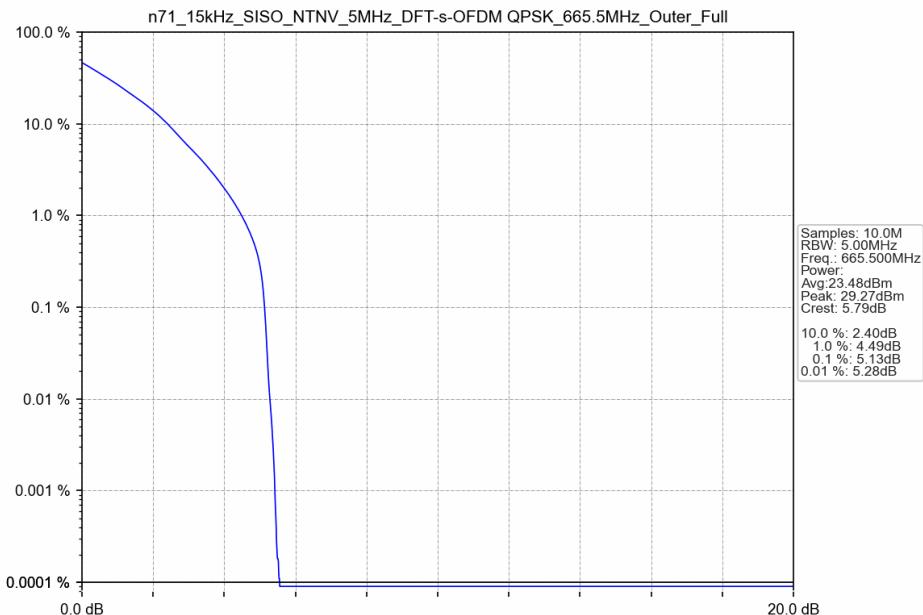
**n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_665.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_680.5MHz\_Outer\_Full**

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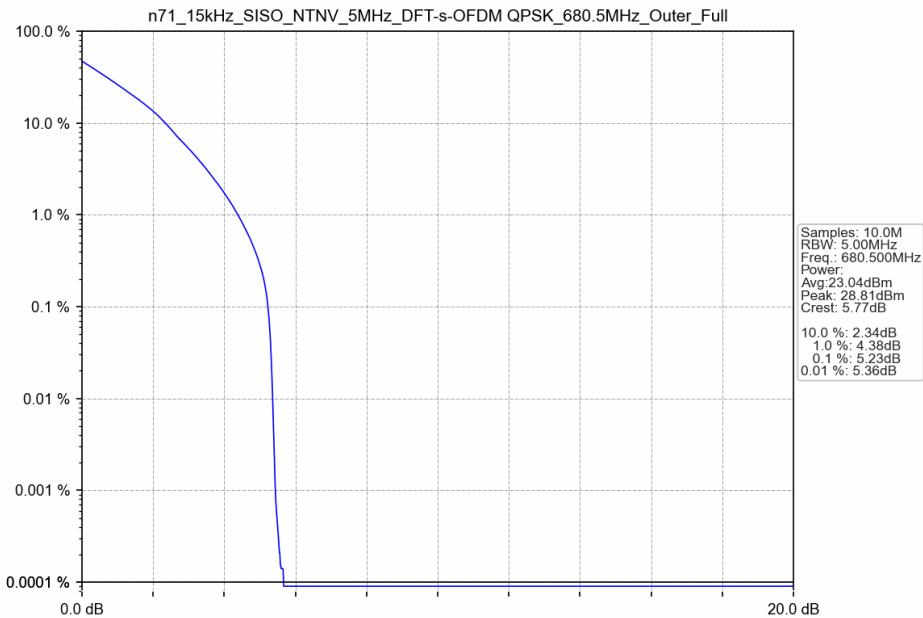
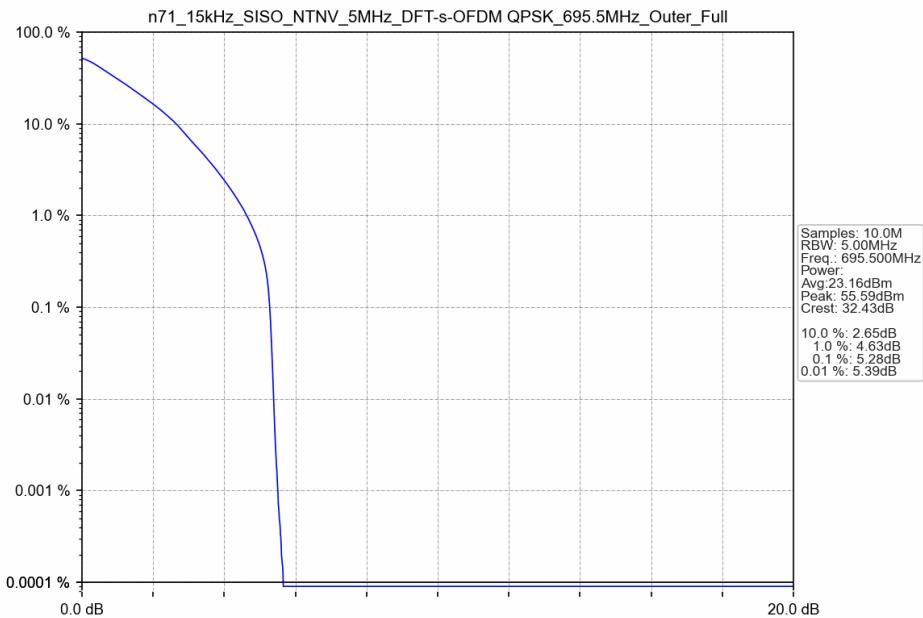
**n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_695.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_665.5MHz\_Outer\_Full**

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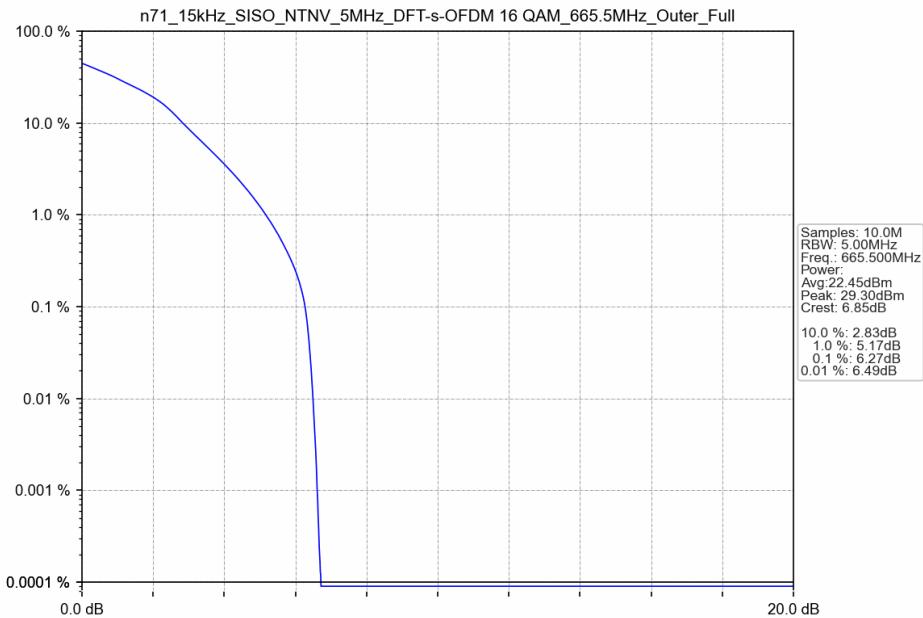
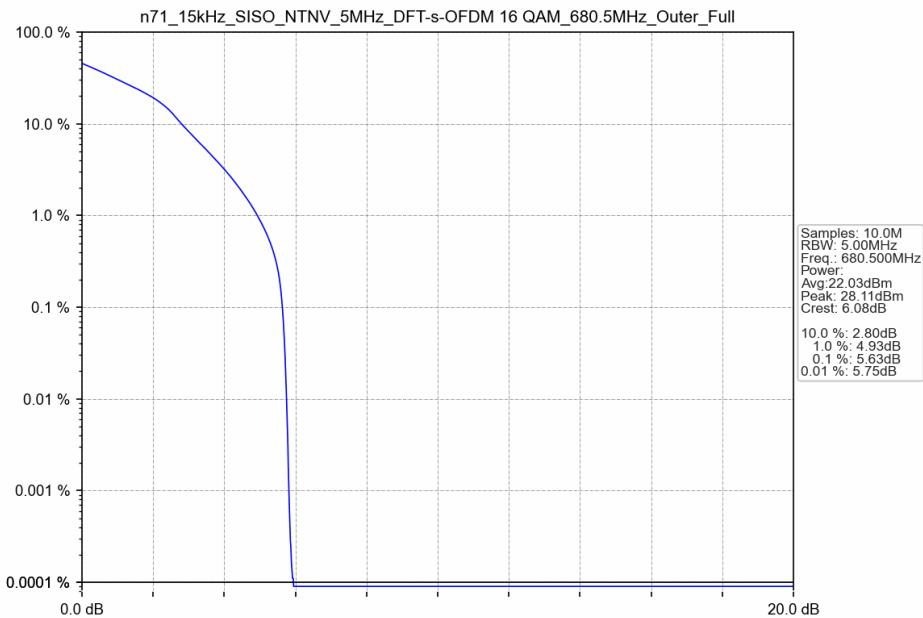
**n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_695.5MHz\_Outer\_Full**

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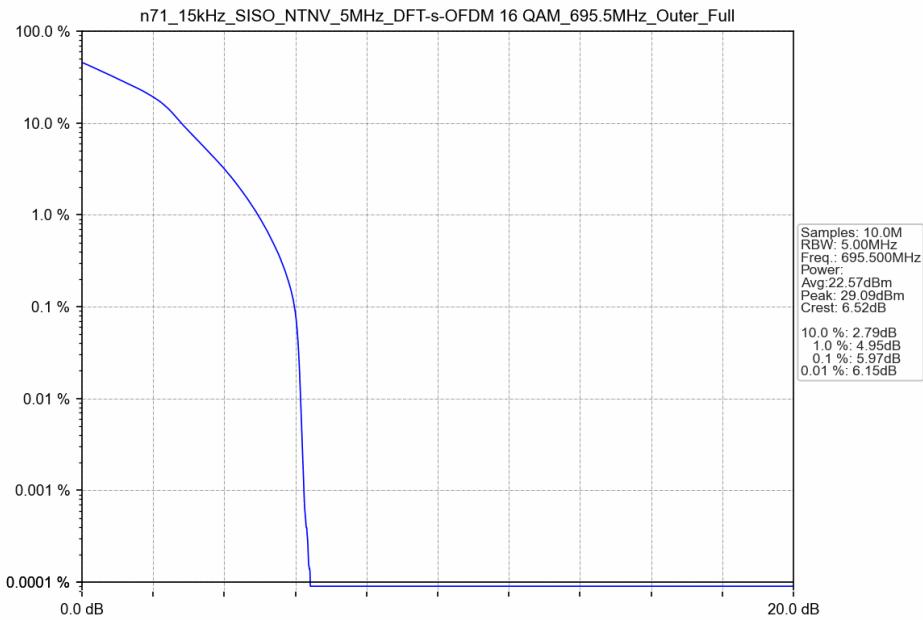
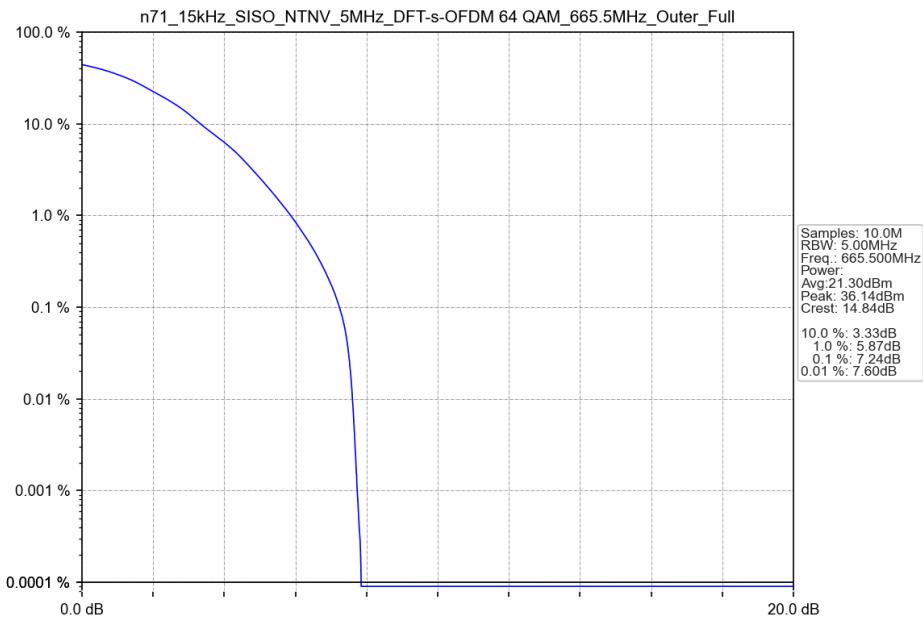
**n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_665.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_680.5MHz\_Outer\_Full**

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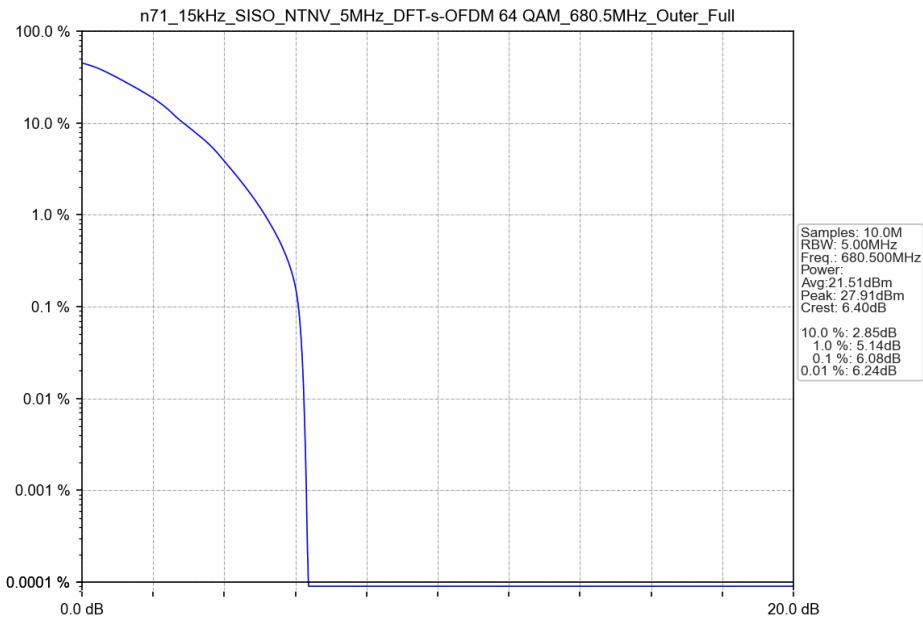
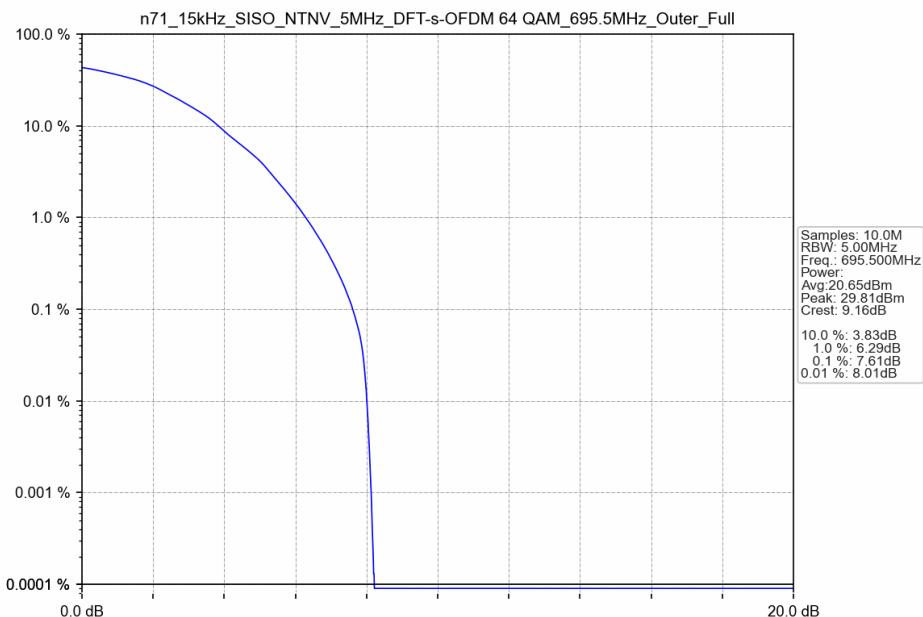
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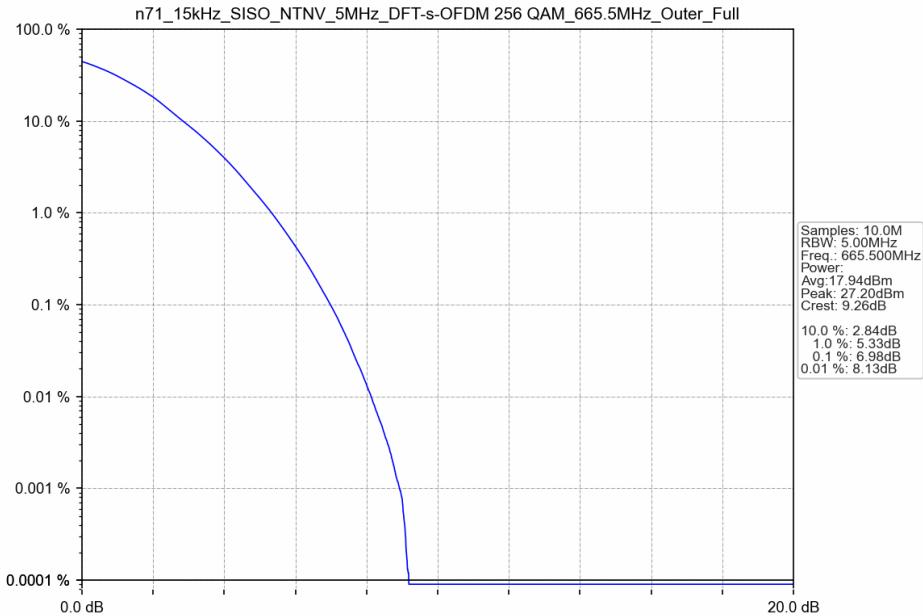
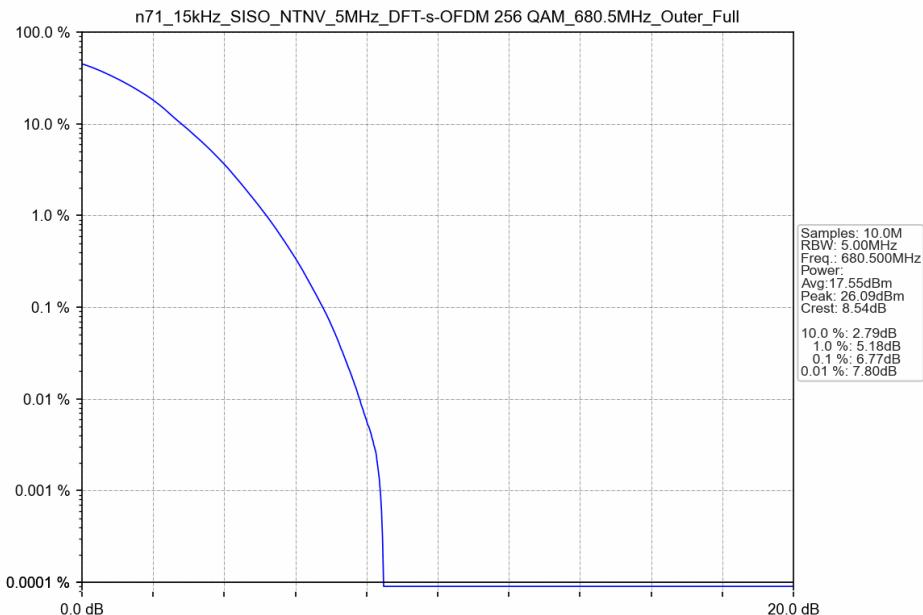
**n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_695.5MHz\_Outer\_Full**

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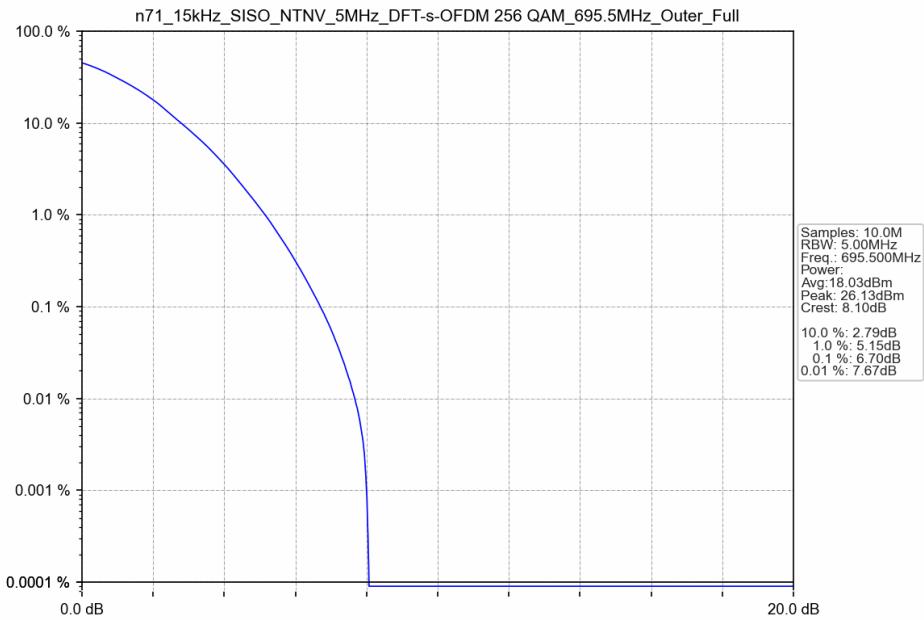
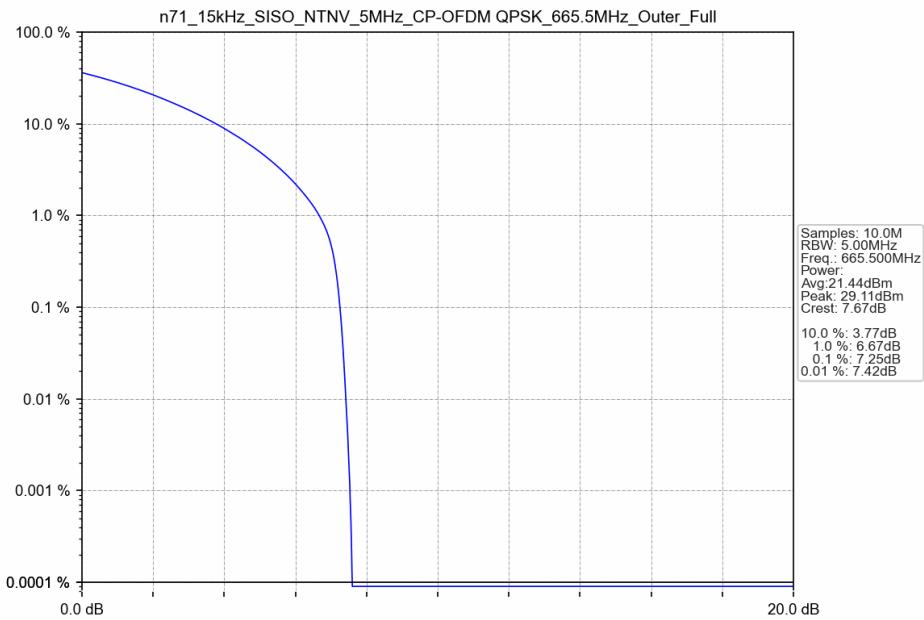
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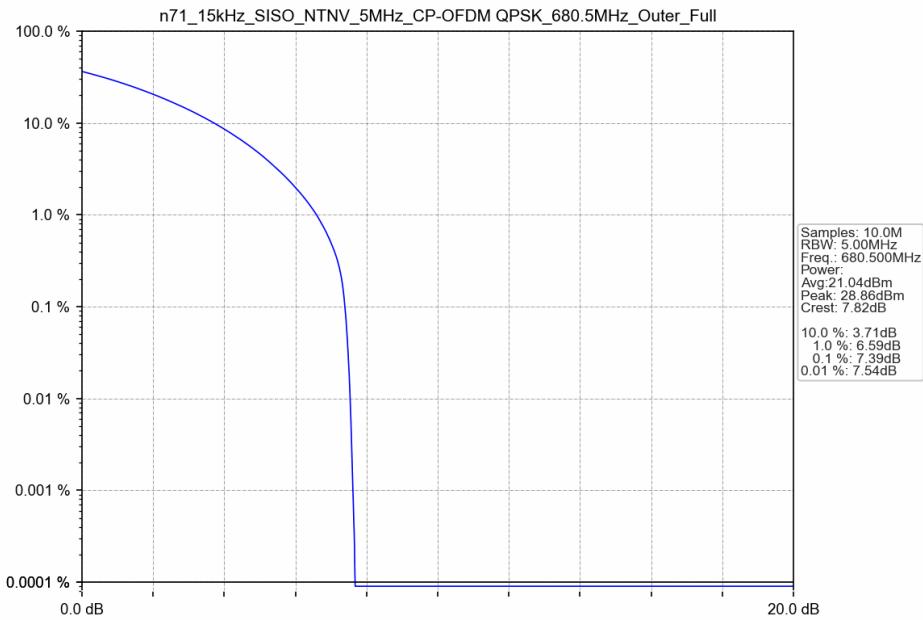
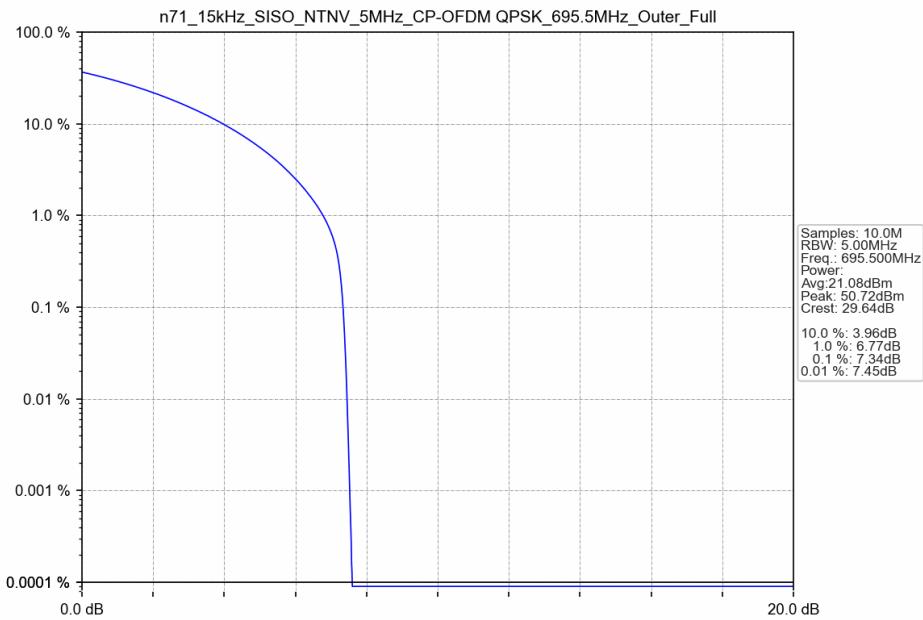
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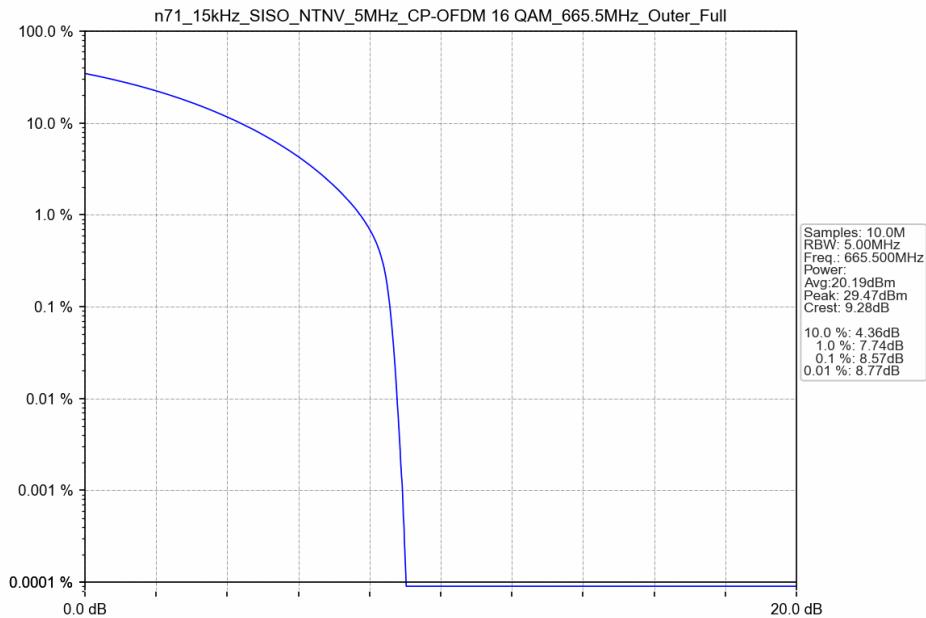
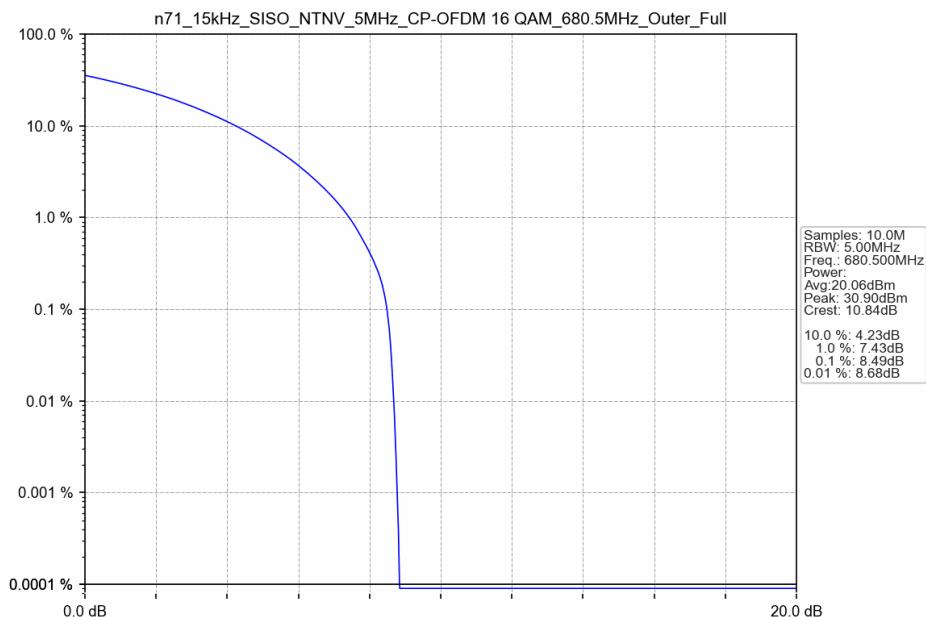
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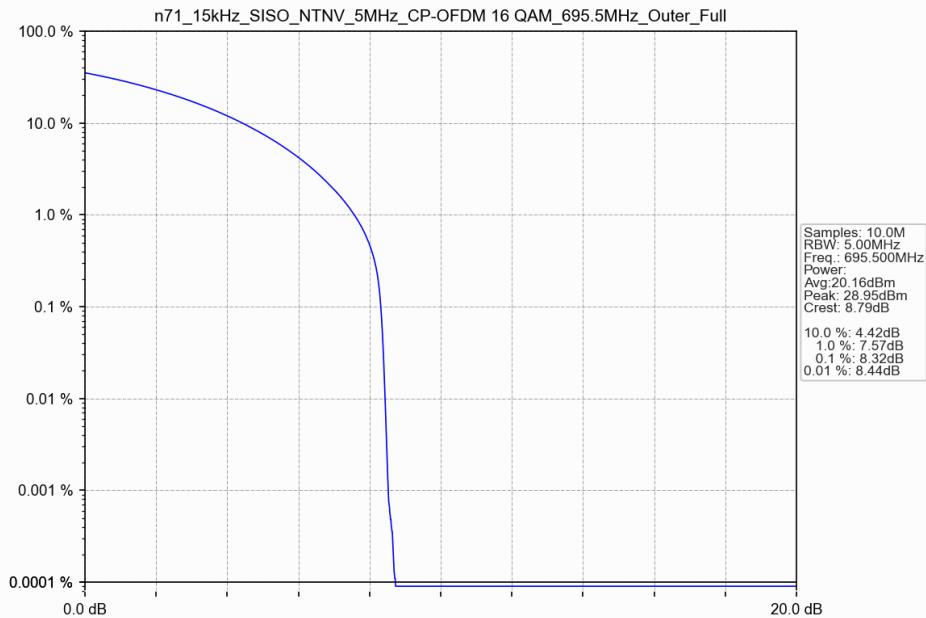
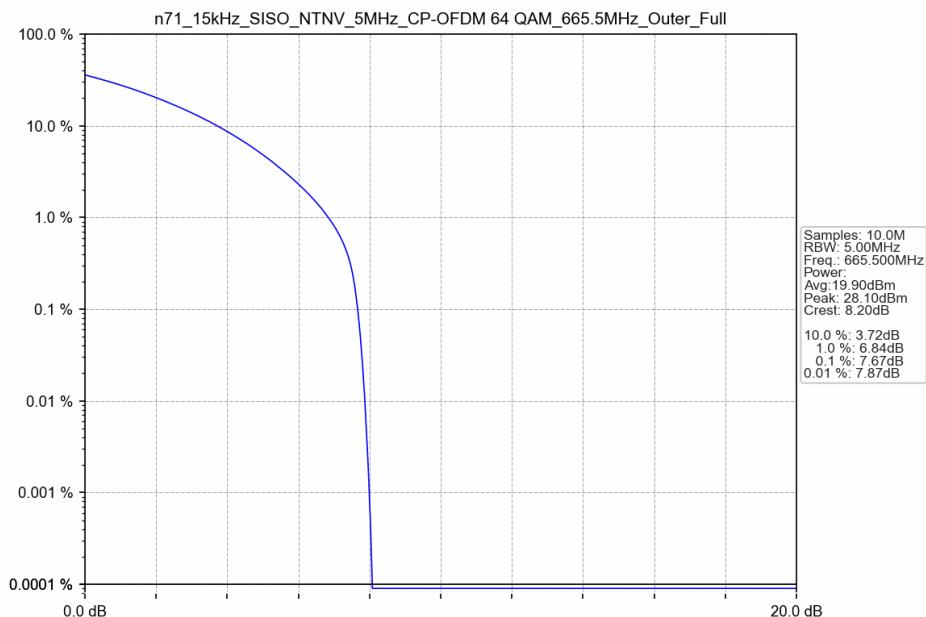
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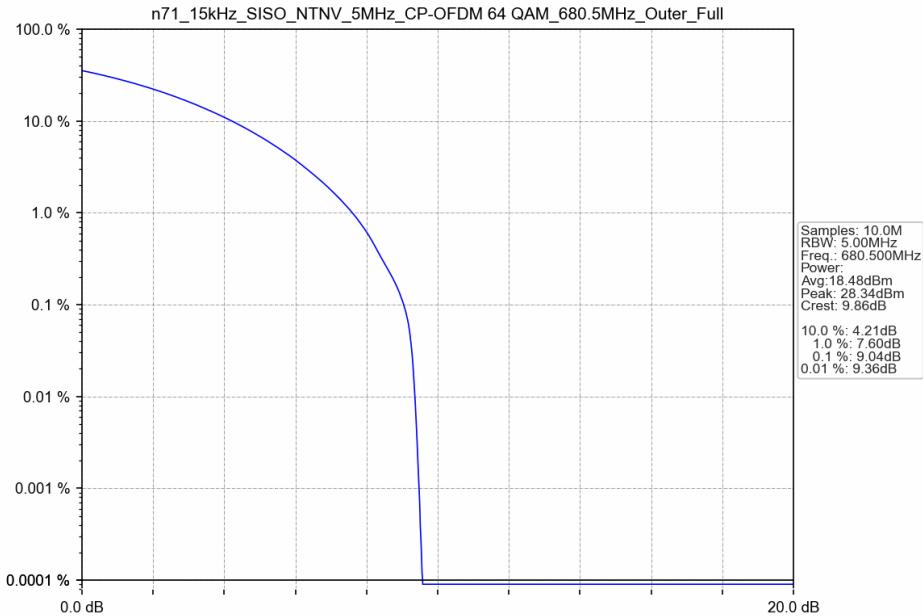
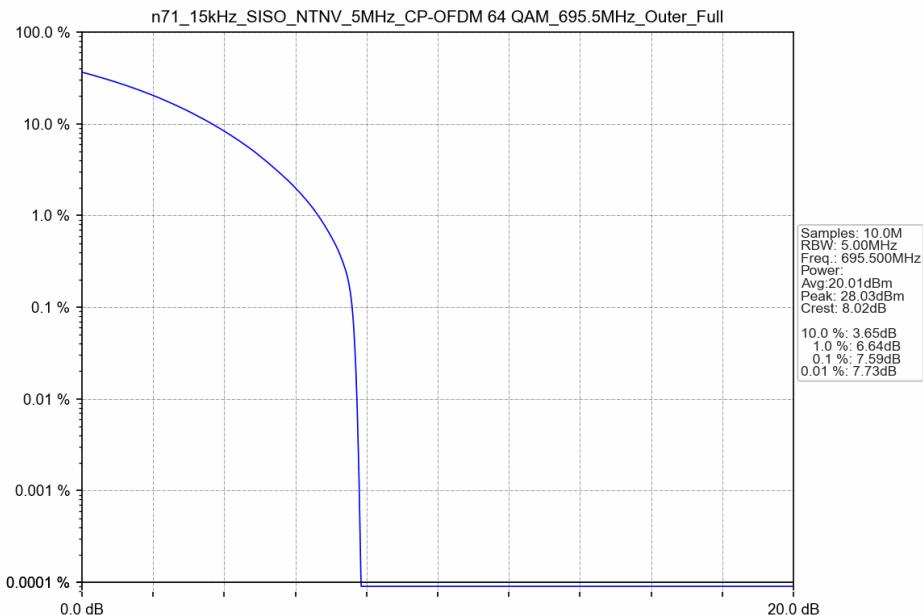
**n71\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_695.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_665.5MHz\_Outer\_Full**

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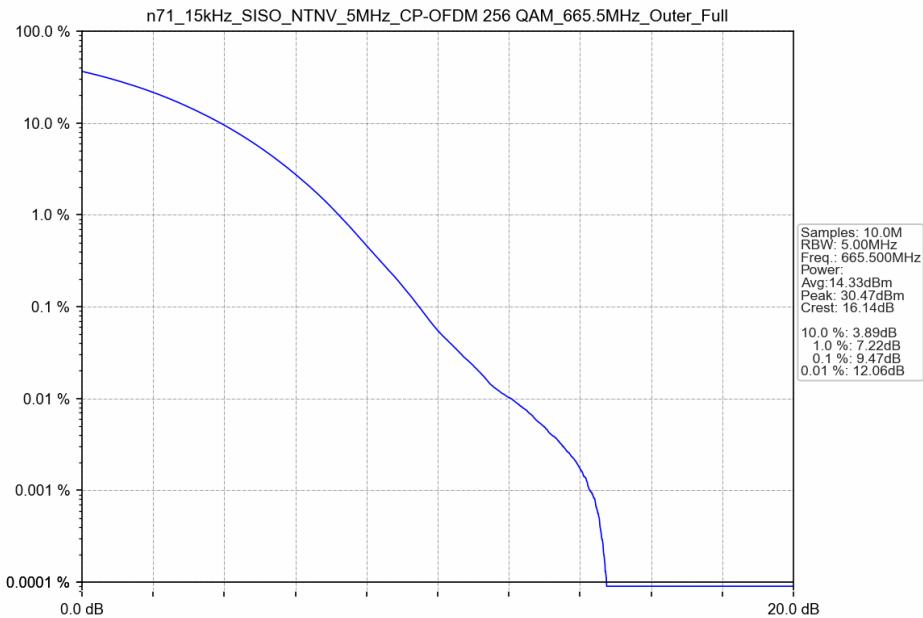
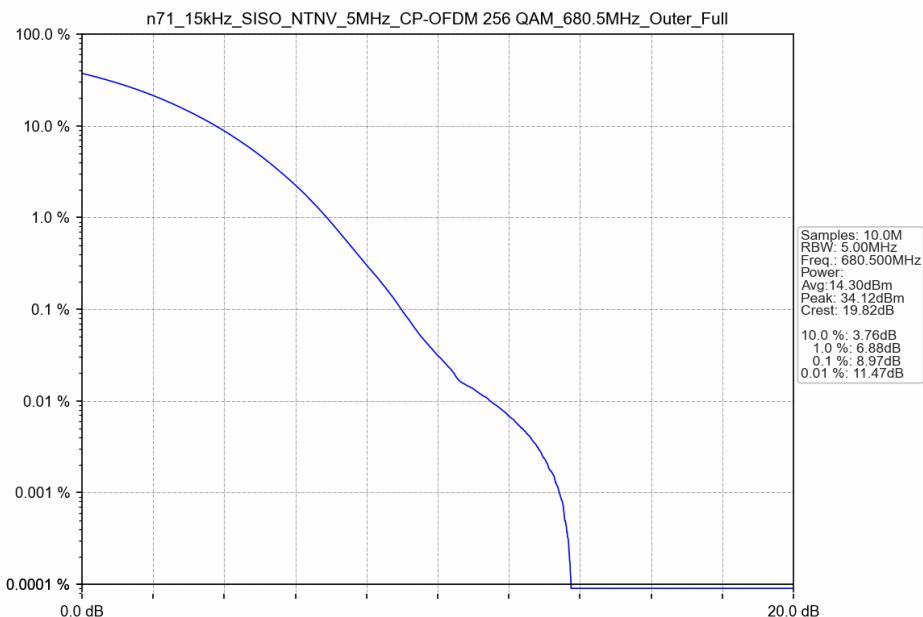
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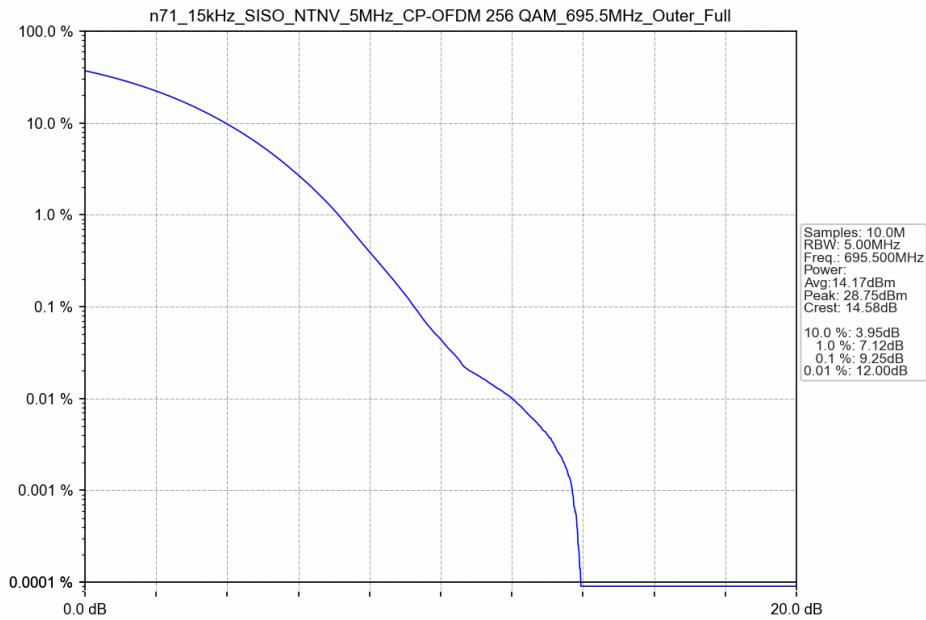
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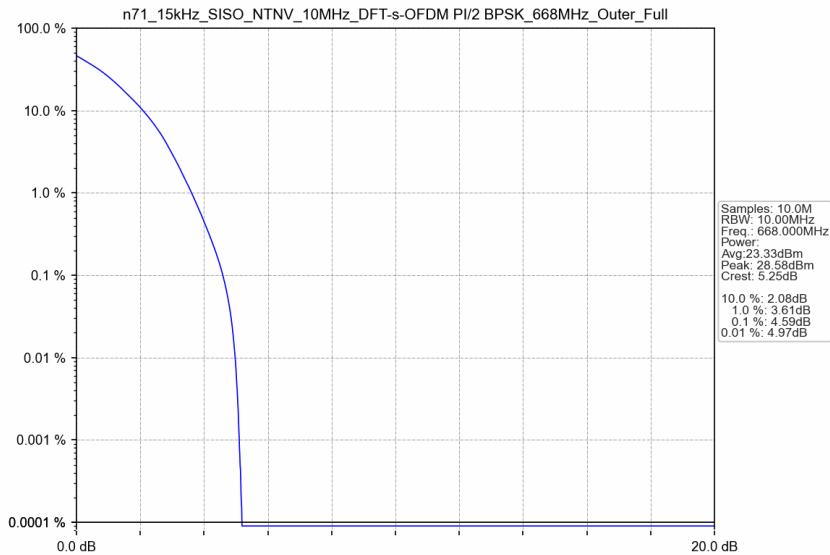
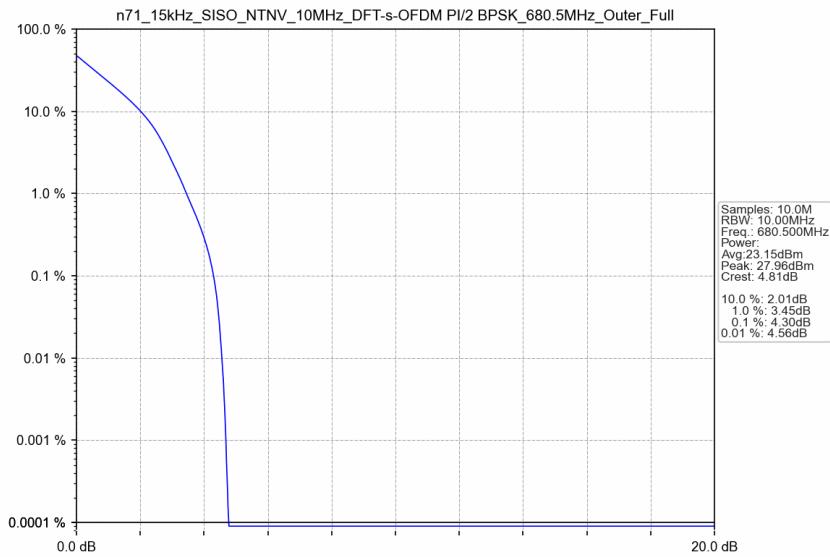
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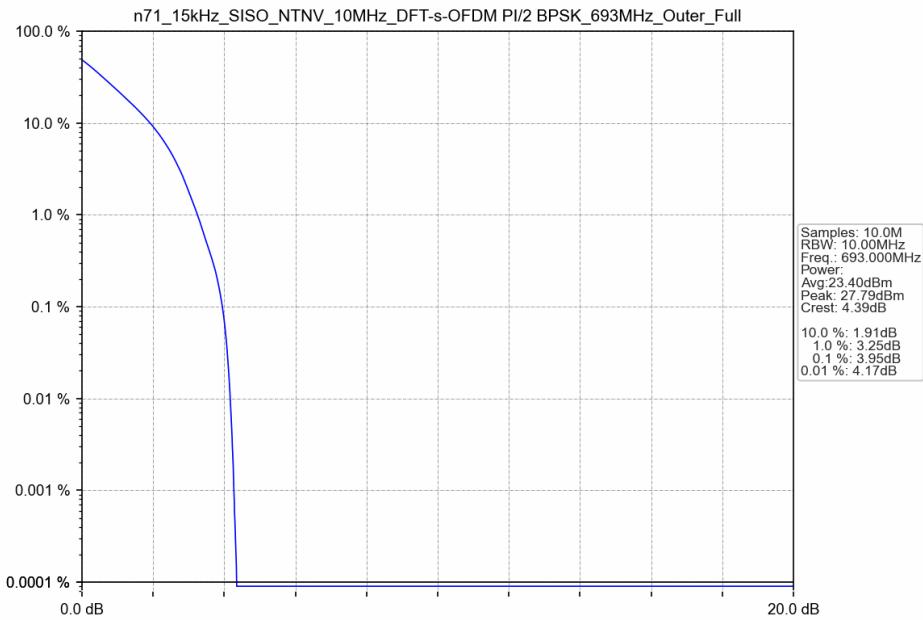
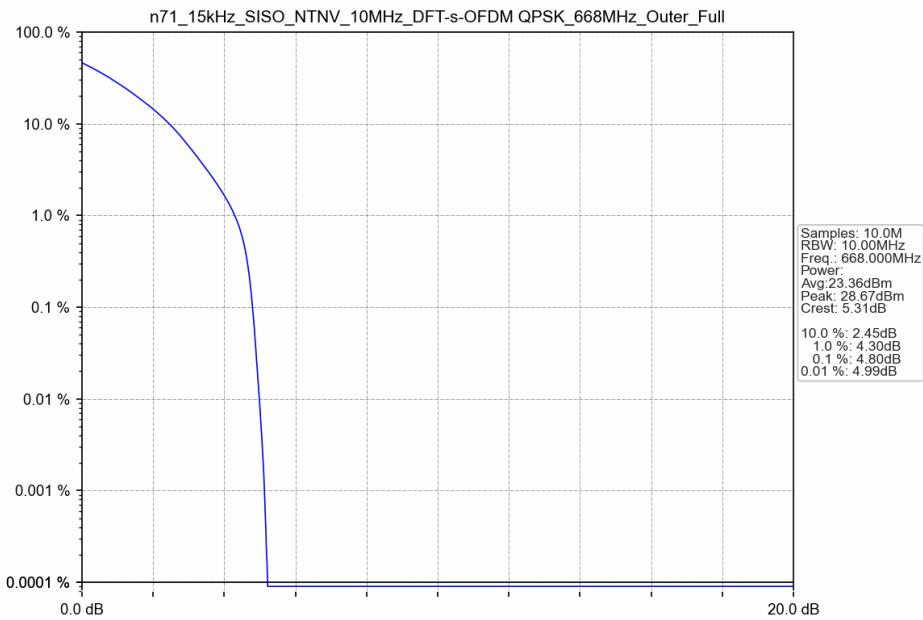
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**4.2.2 15k\_SISO\_10MHz\_NTNV****n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_668MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_680.5MHz\_Outer\_Full**

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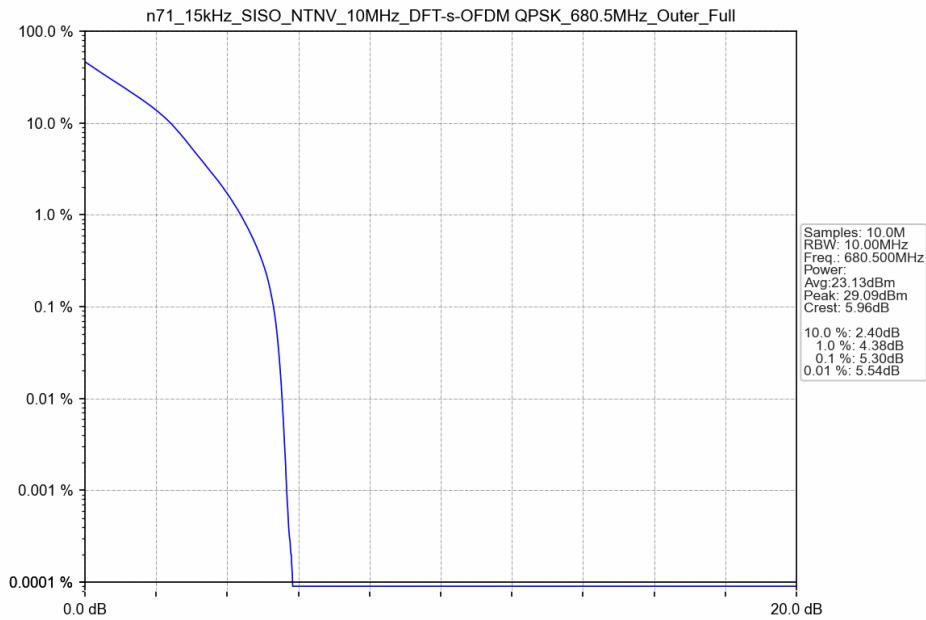
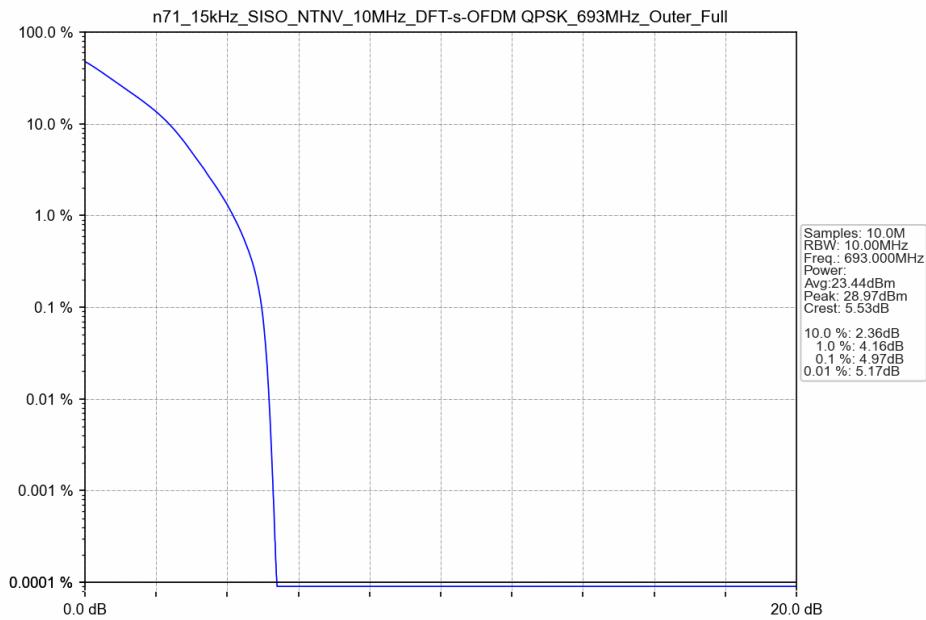
**n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_693MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_668MHz\_Outer\_Full**

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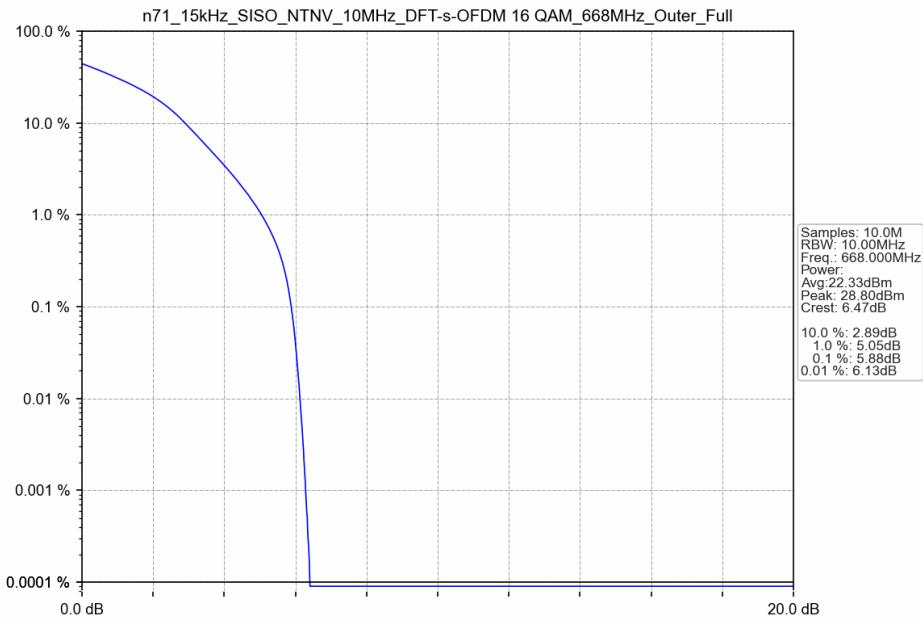
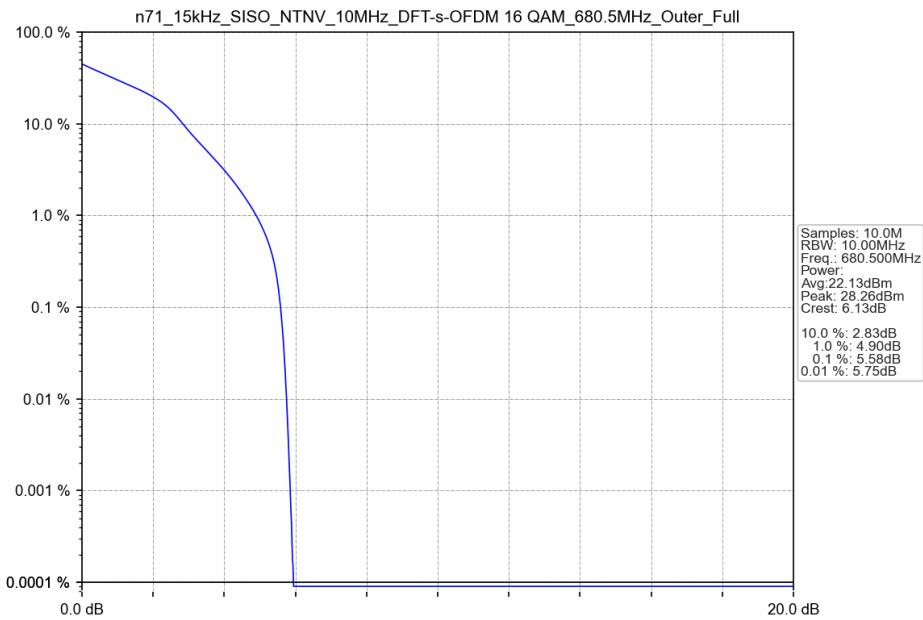
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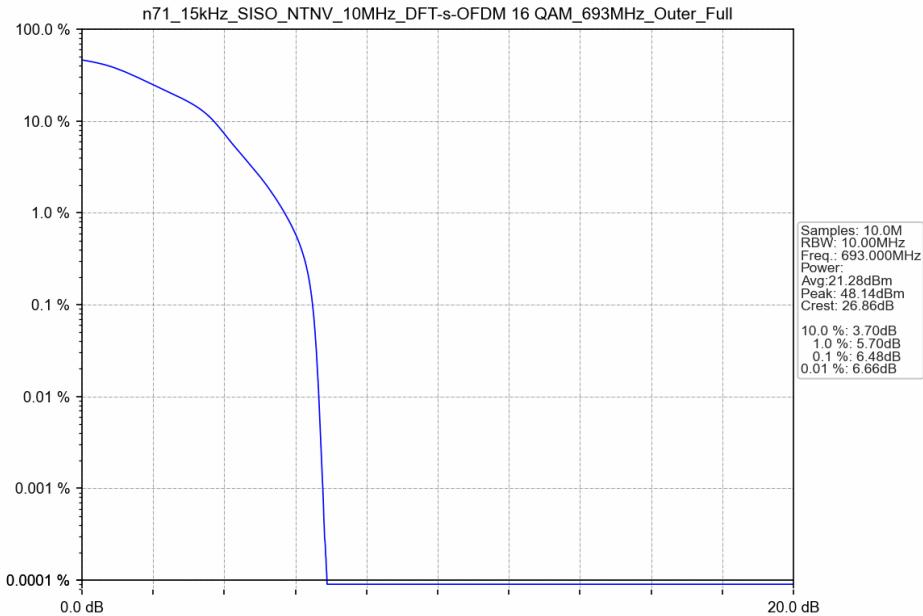
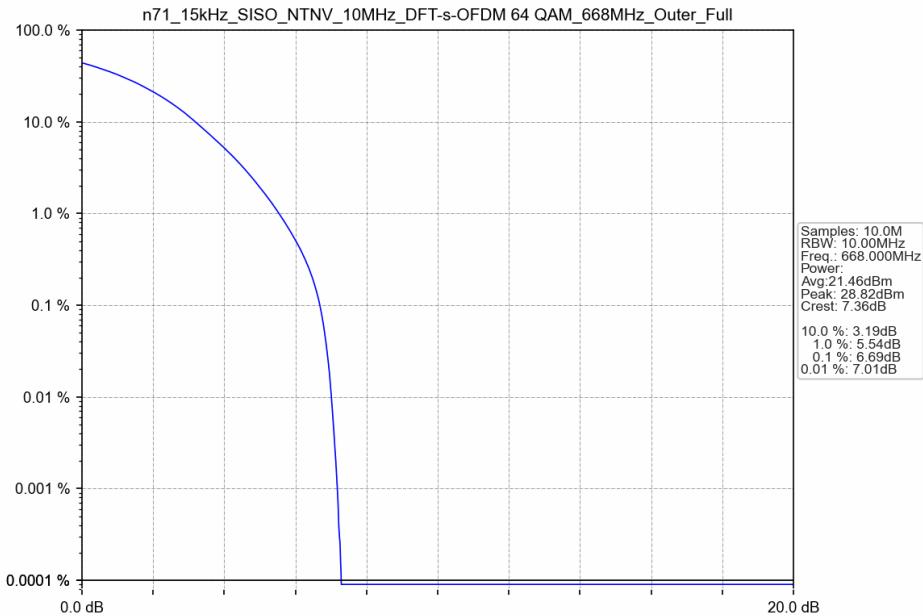
**n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_668MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_680.5MHz\_Outer\_Full**

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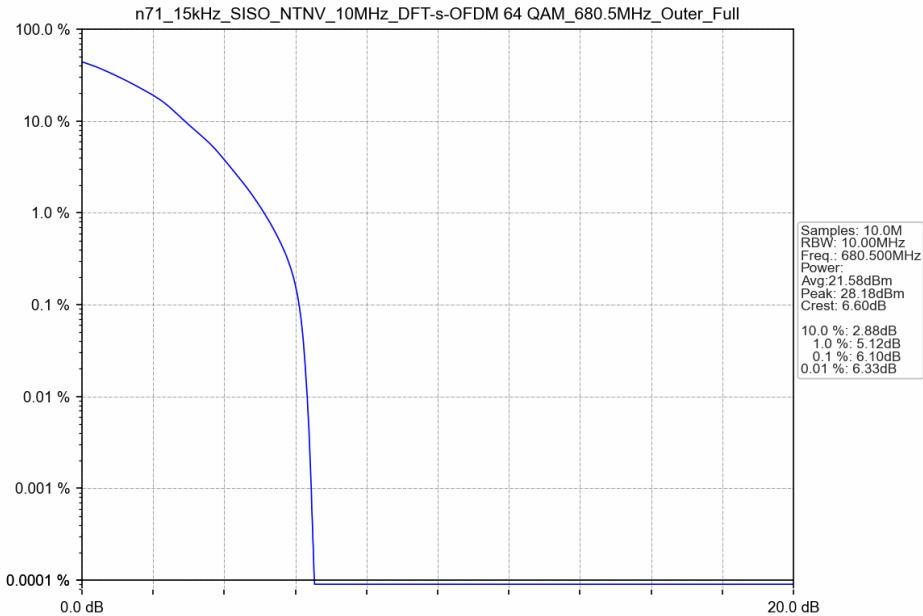
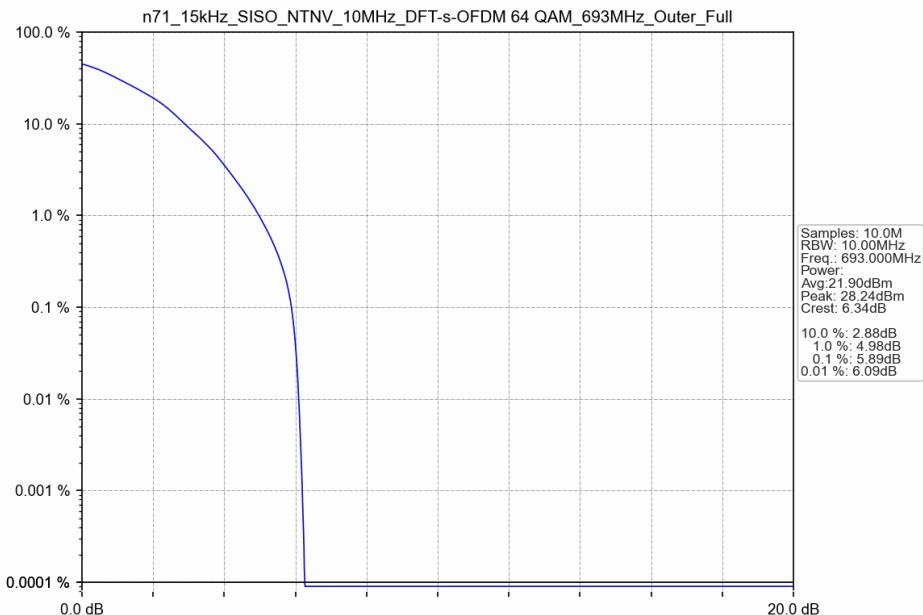
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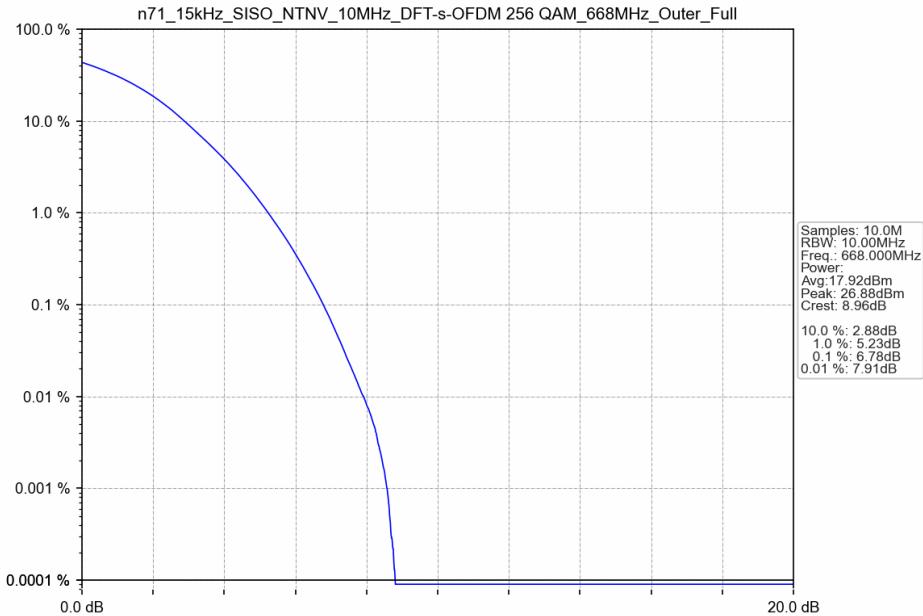
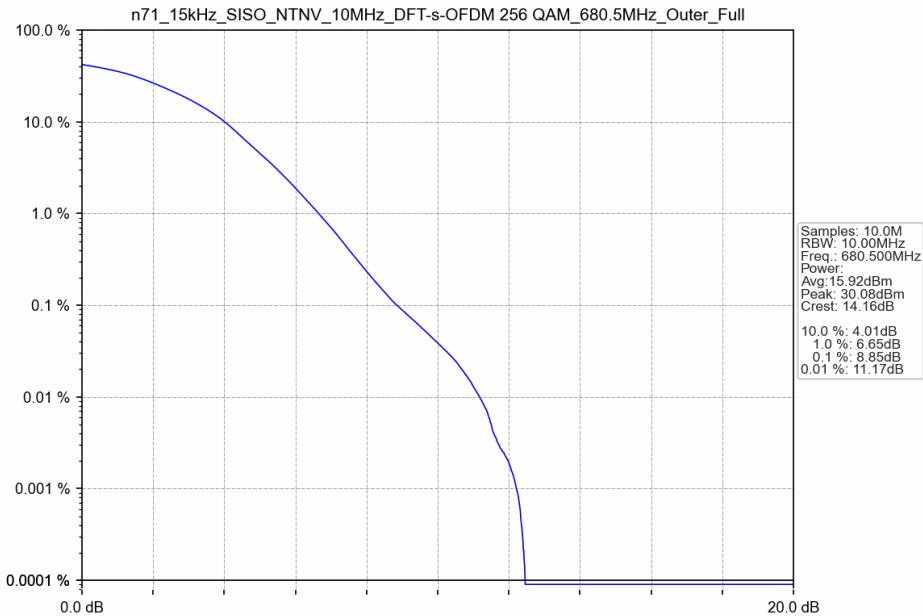
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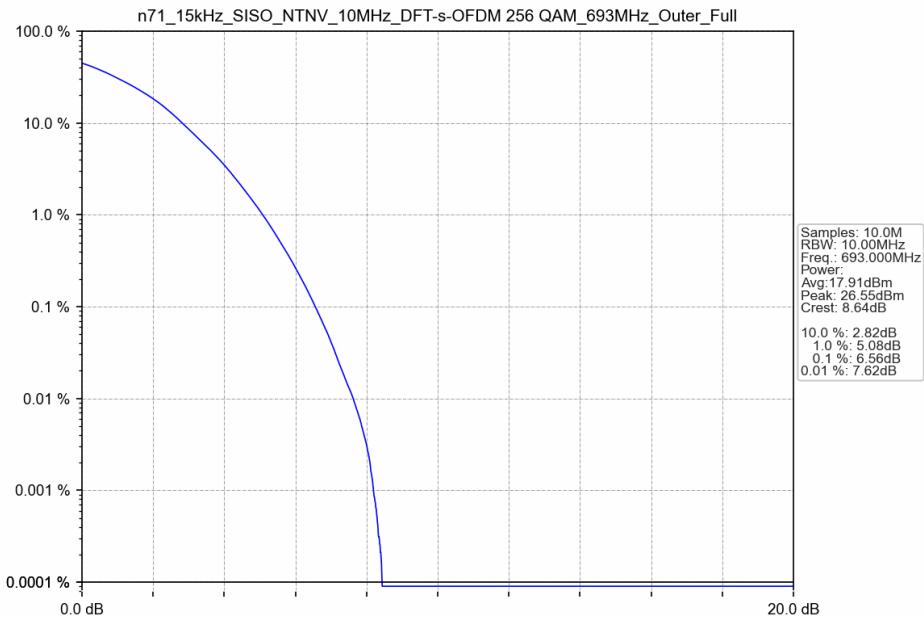
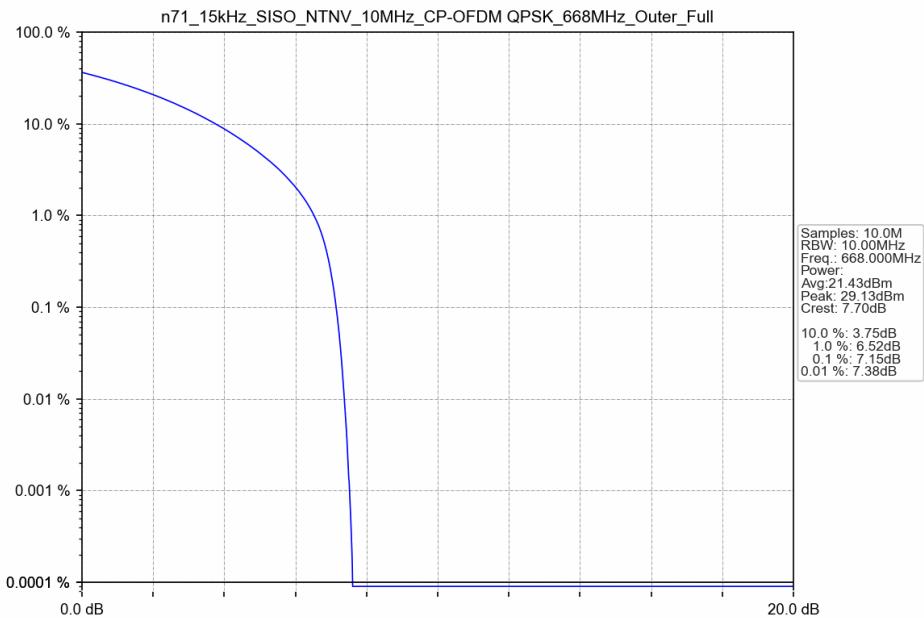
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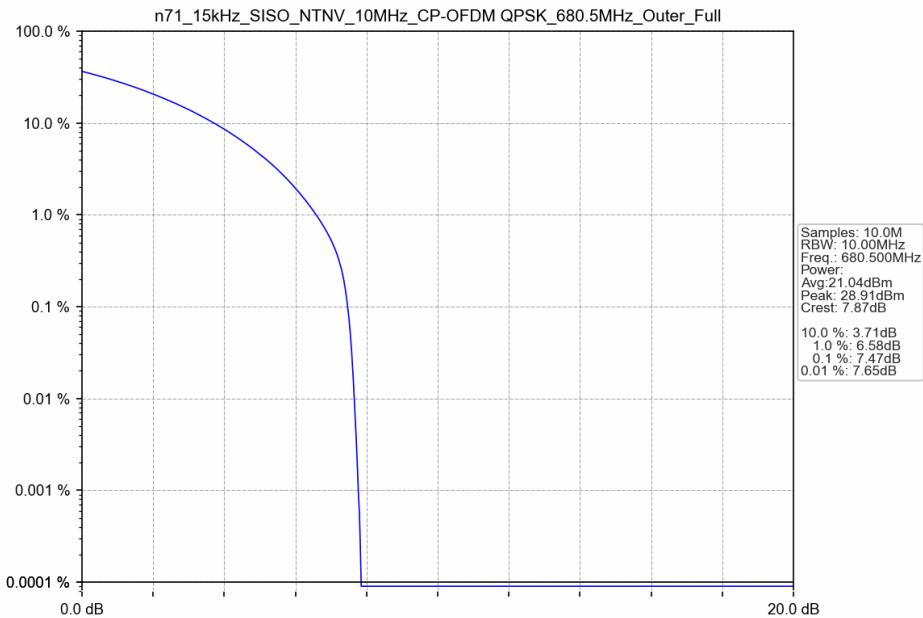
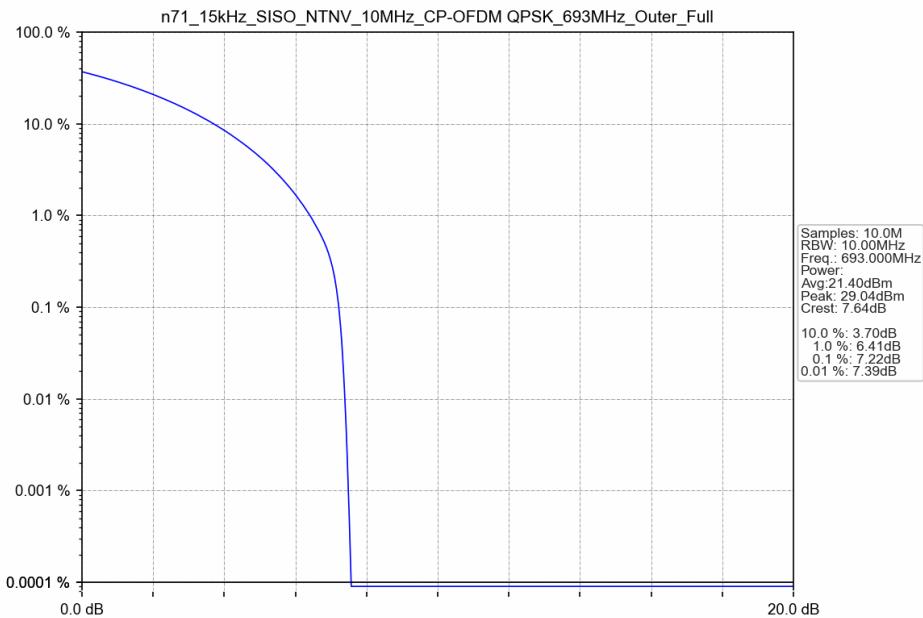
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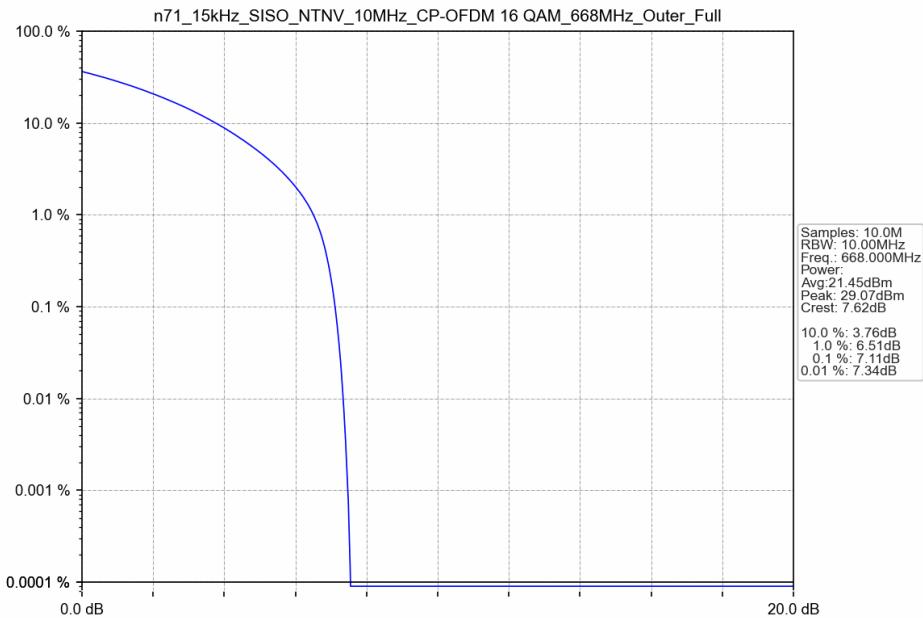
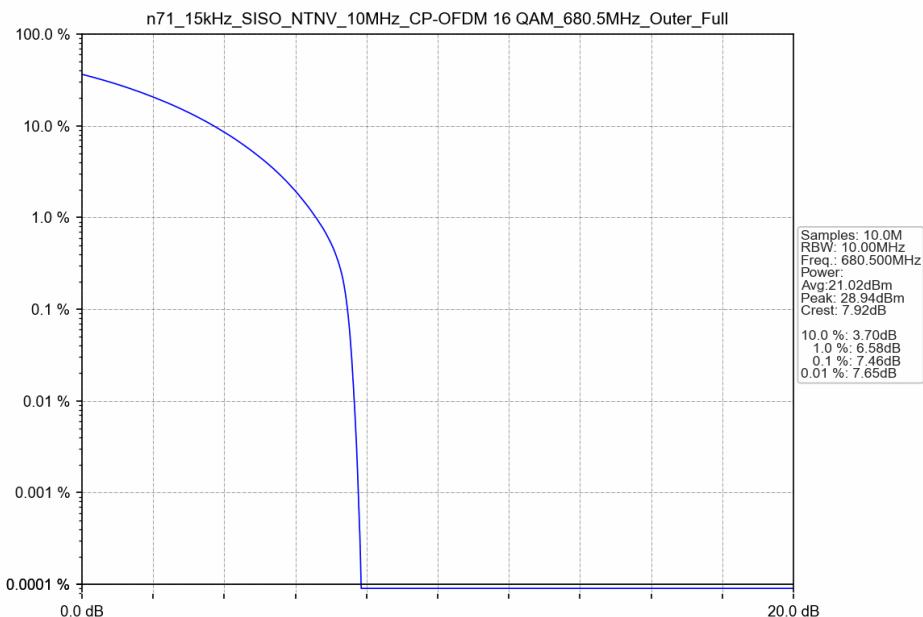
**n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_693MHz\_Outer\_Full**

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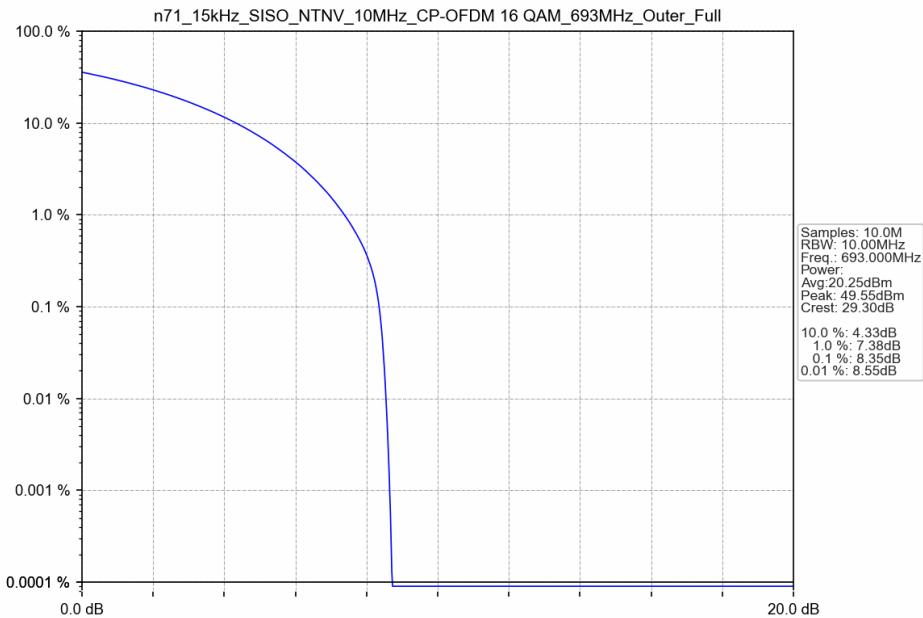
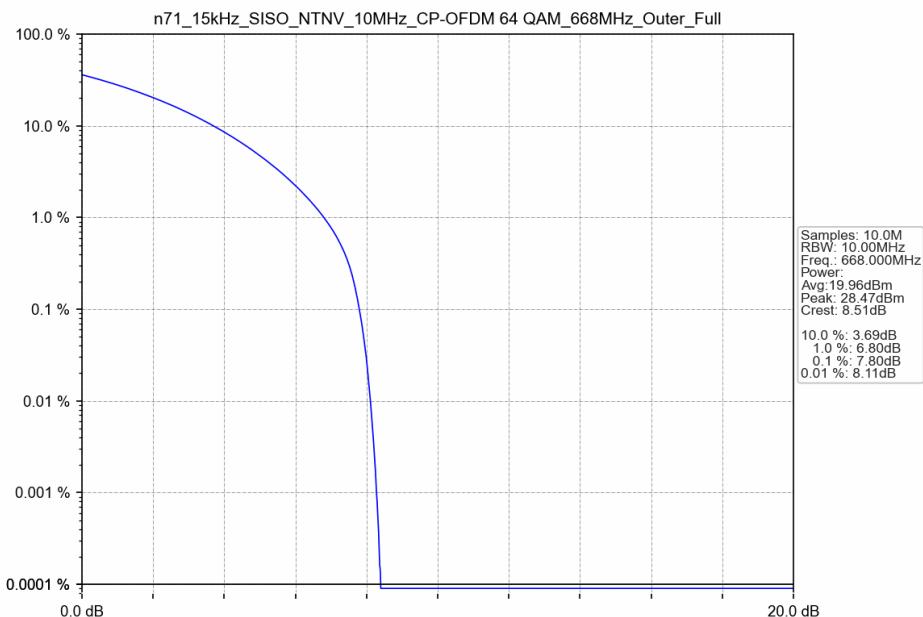
**n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_668MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_680.5MHz\_Outer\_Full**

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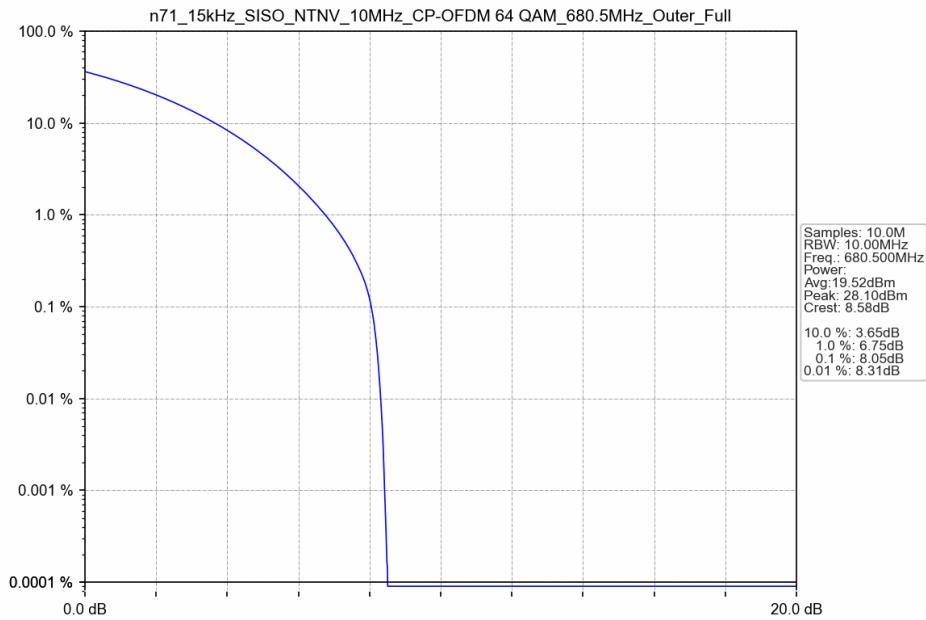
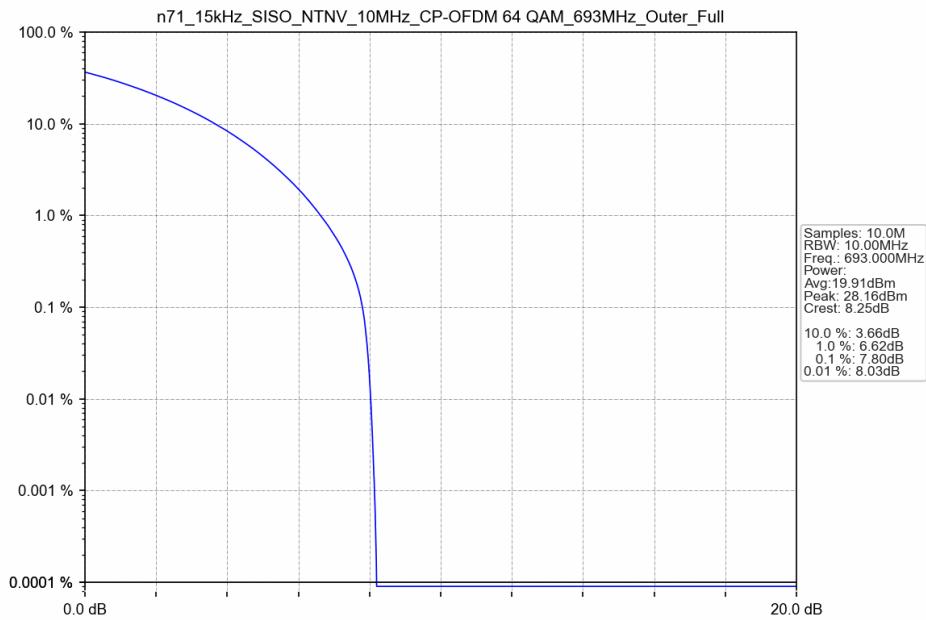
**n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_693MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_668MHz\_Outer\_Full**

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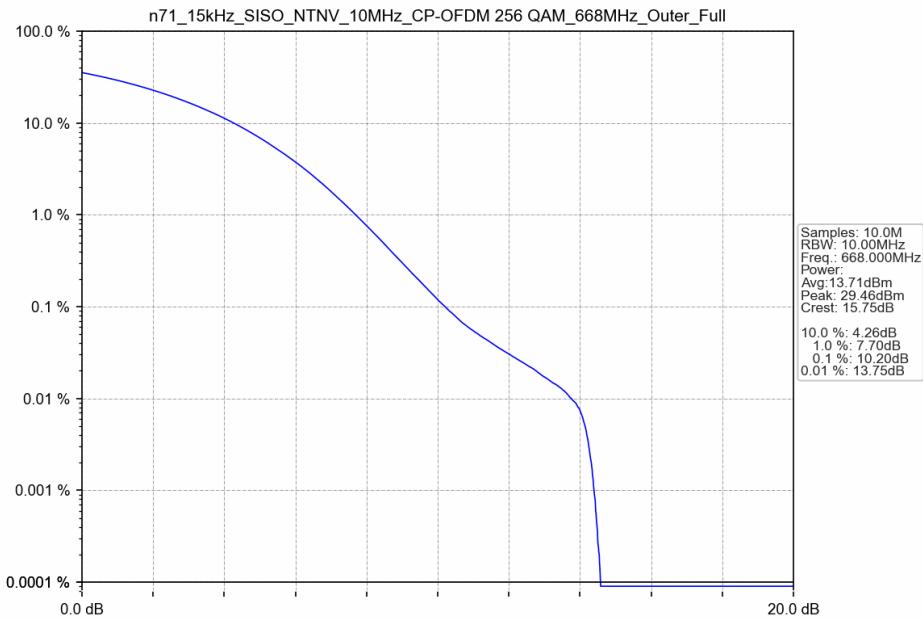
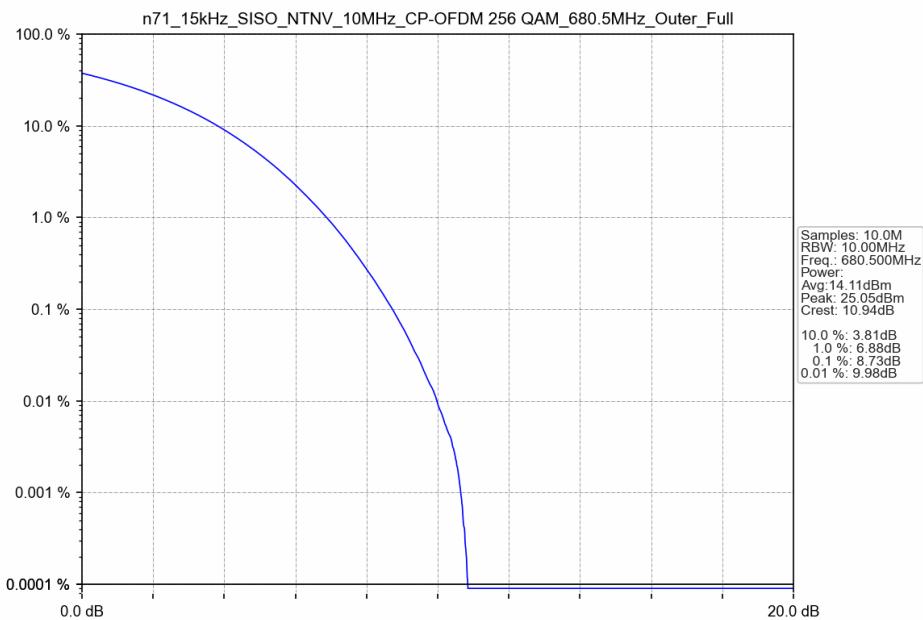
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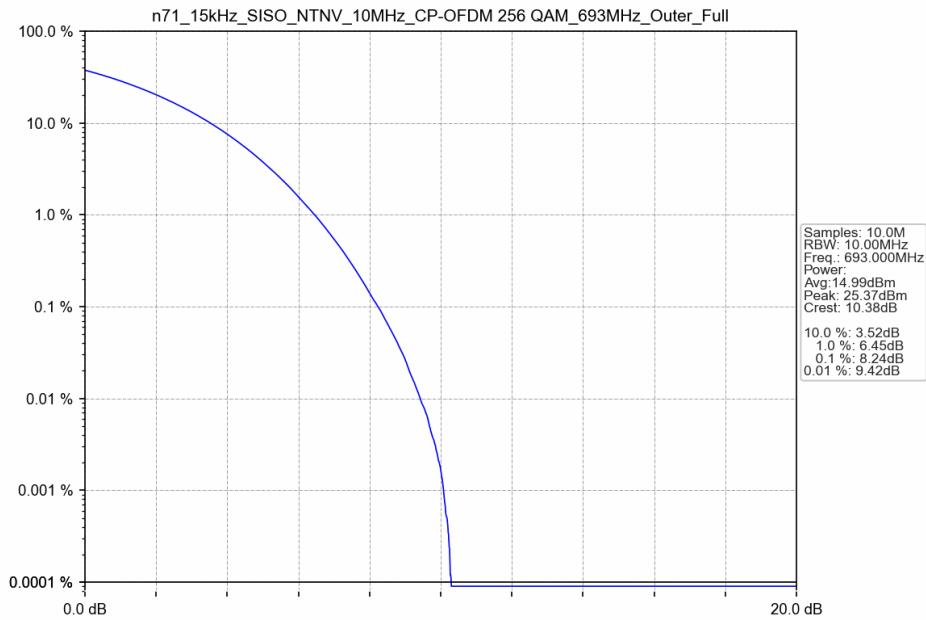
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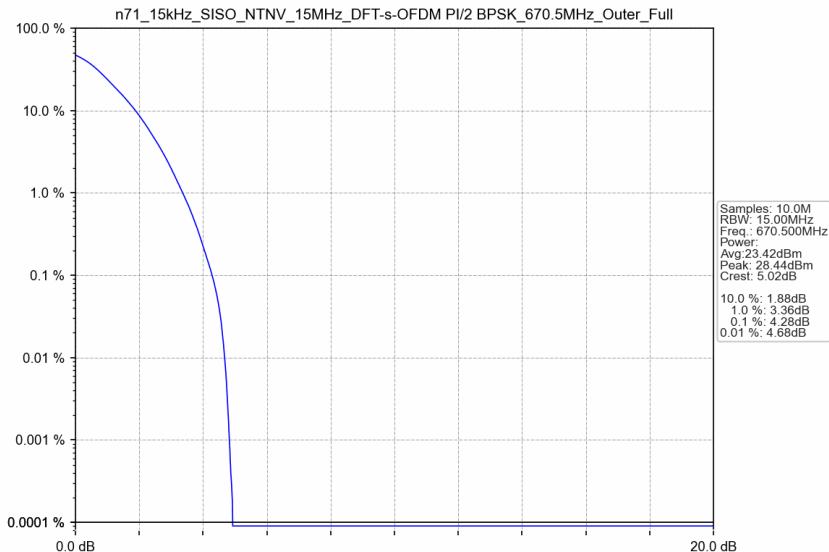
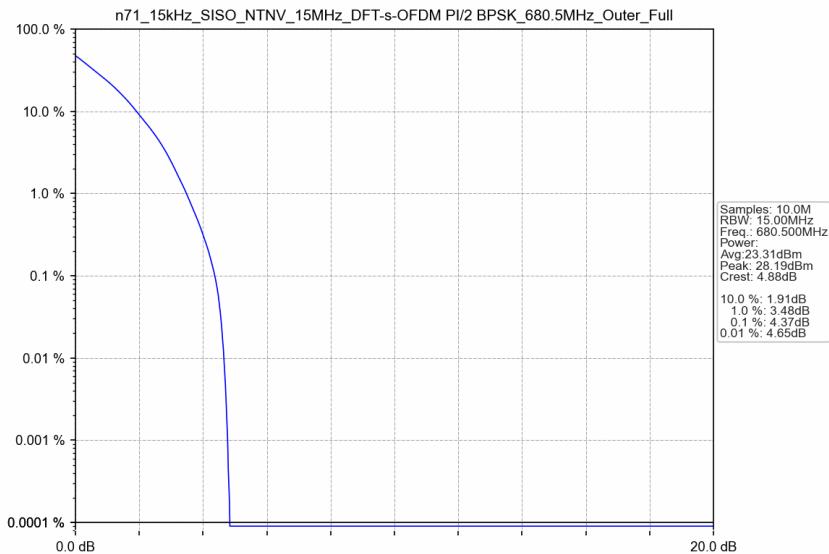
**n71\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_693MHz\_Outer\_Full**

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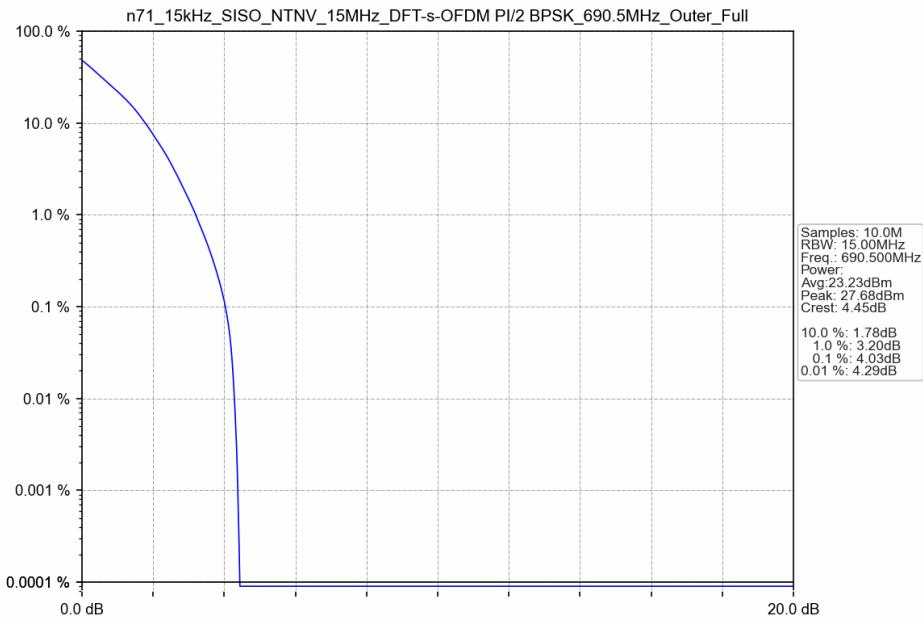
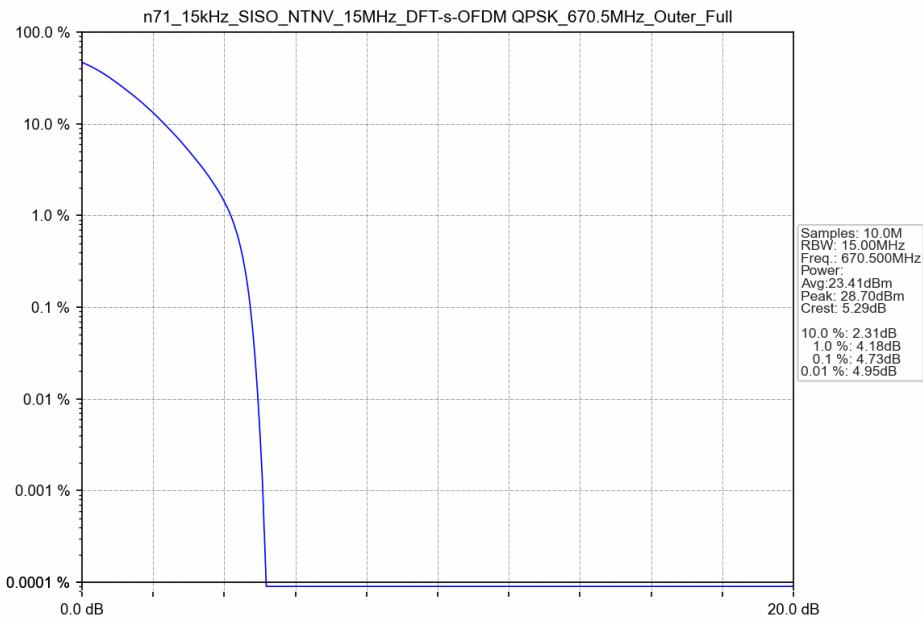
**4.2.3 15k\_SISO\_15MHz\_NTNV****n71\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_670.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_680.5MHz\_Outer\_Full**

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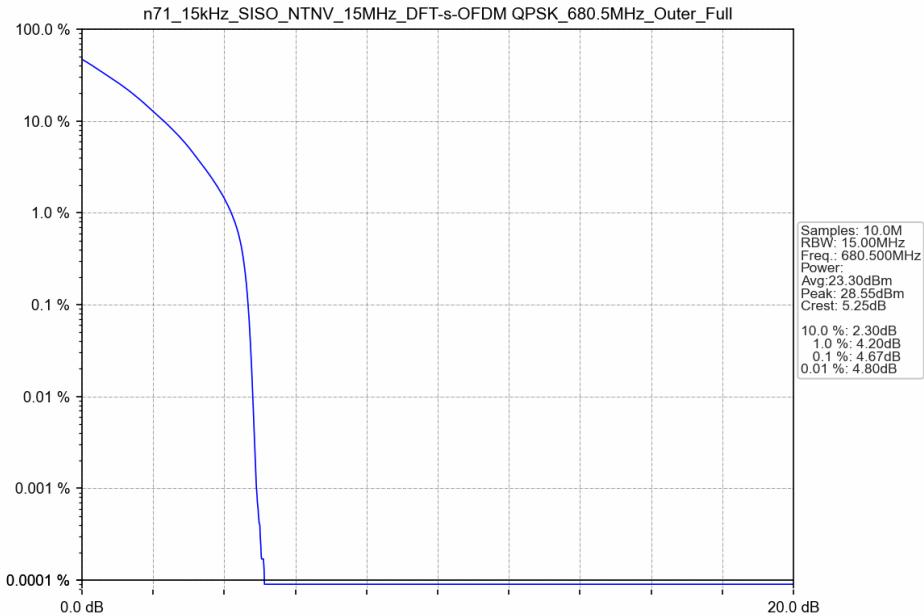
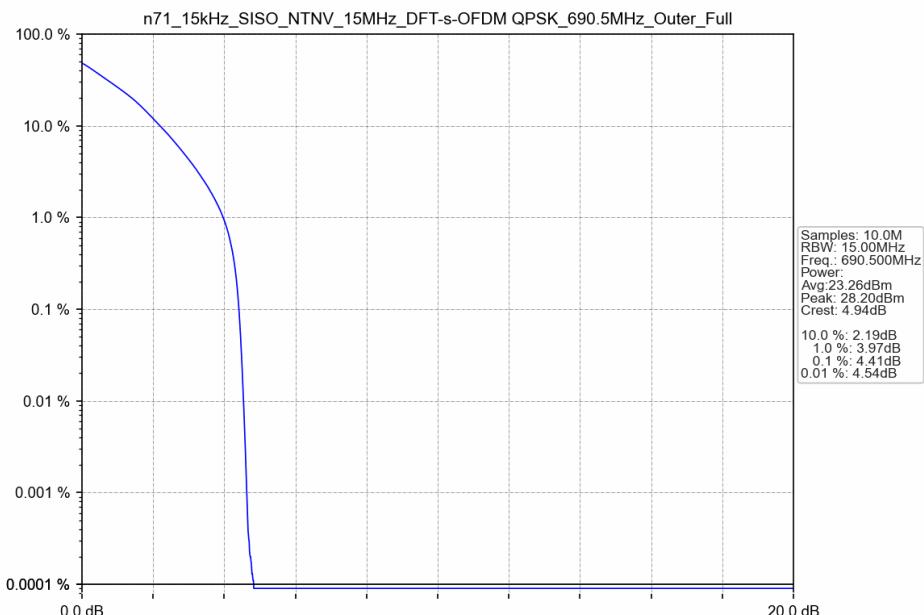
**n71\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_690.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_670.5MHz\_Outer\_Full**

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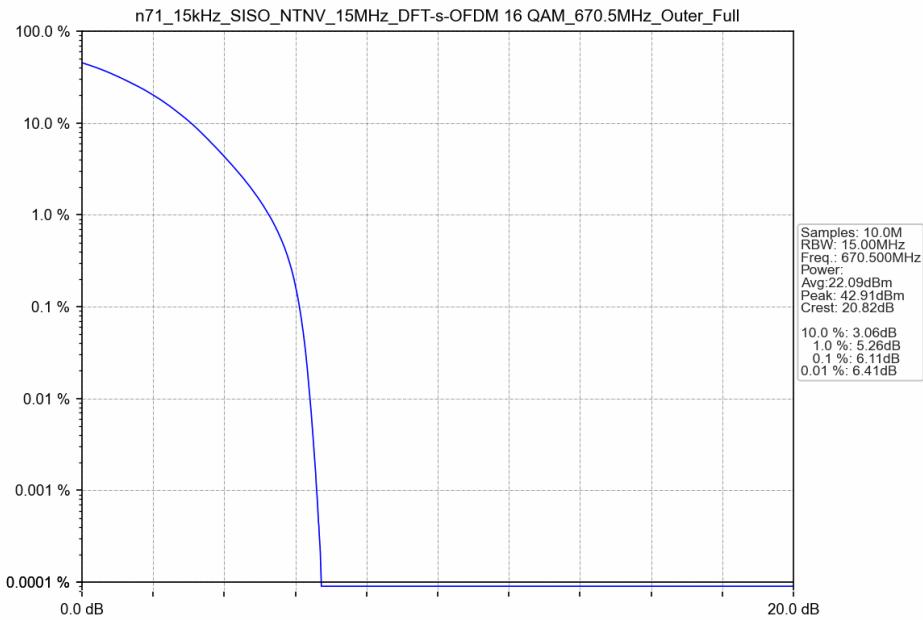
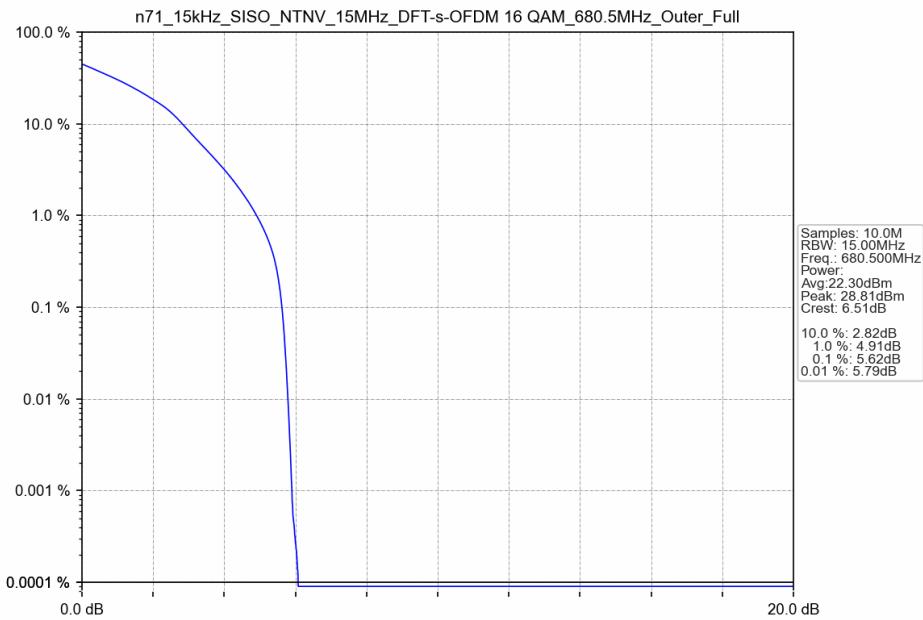
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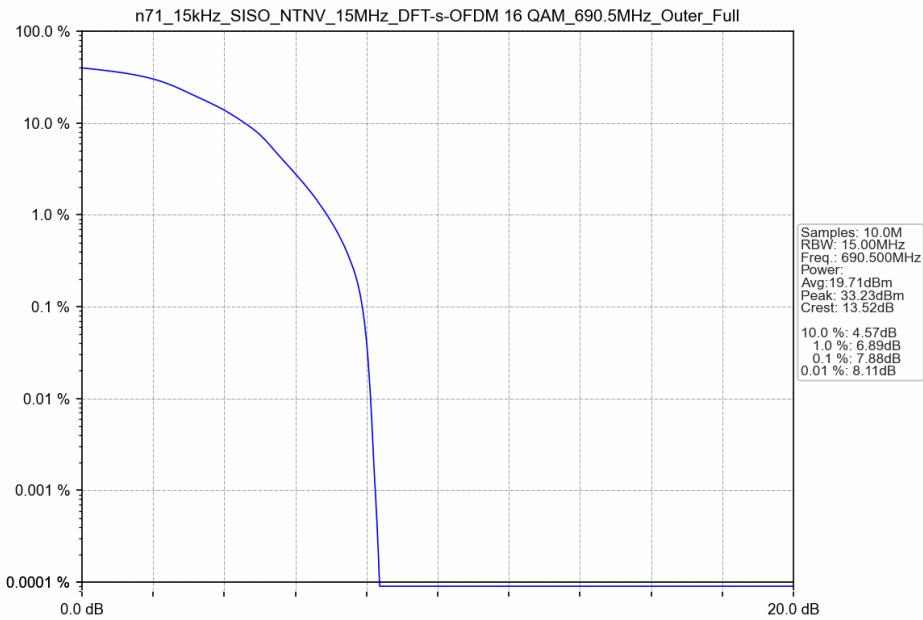
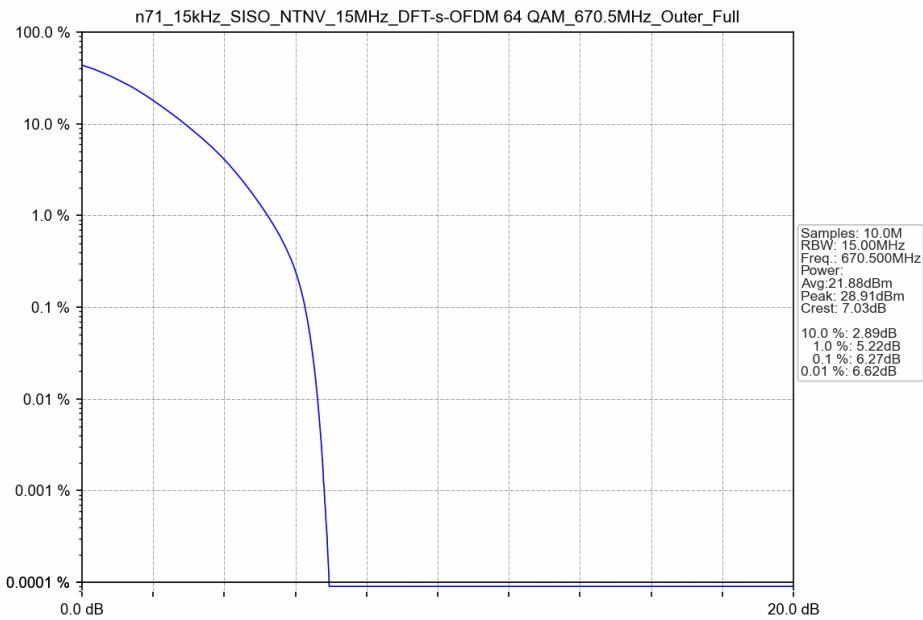
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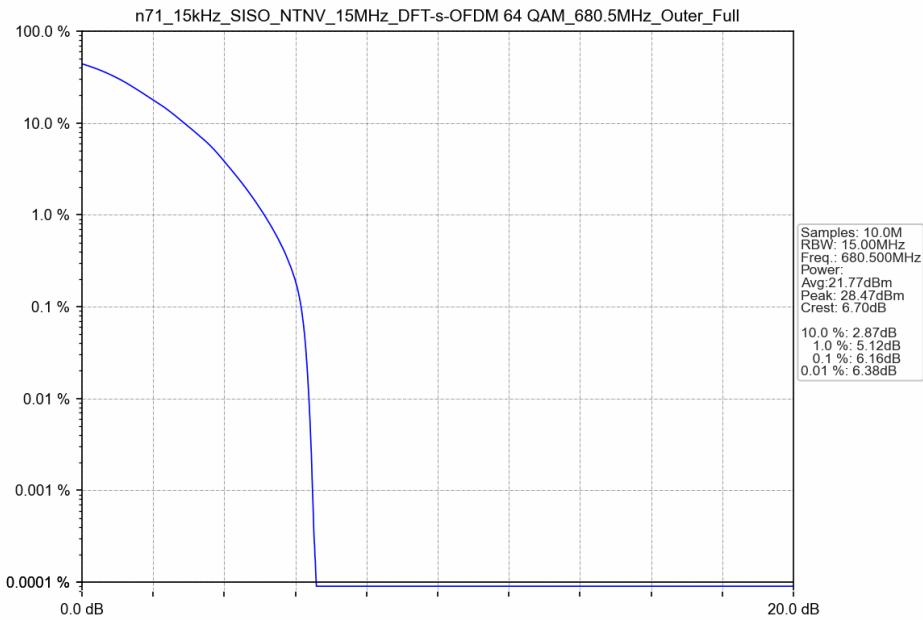
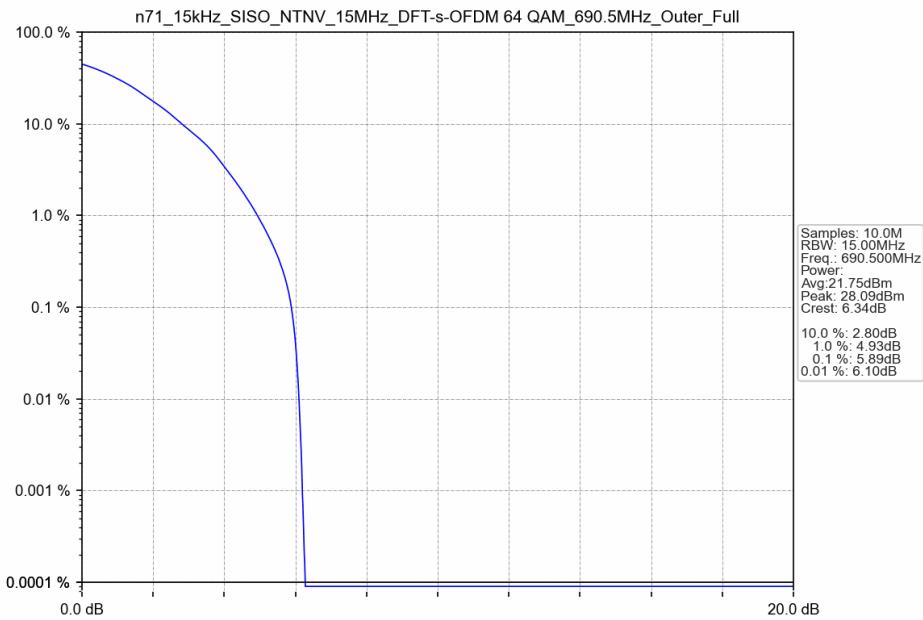
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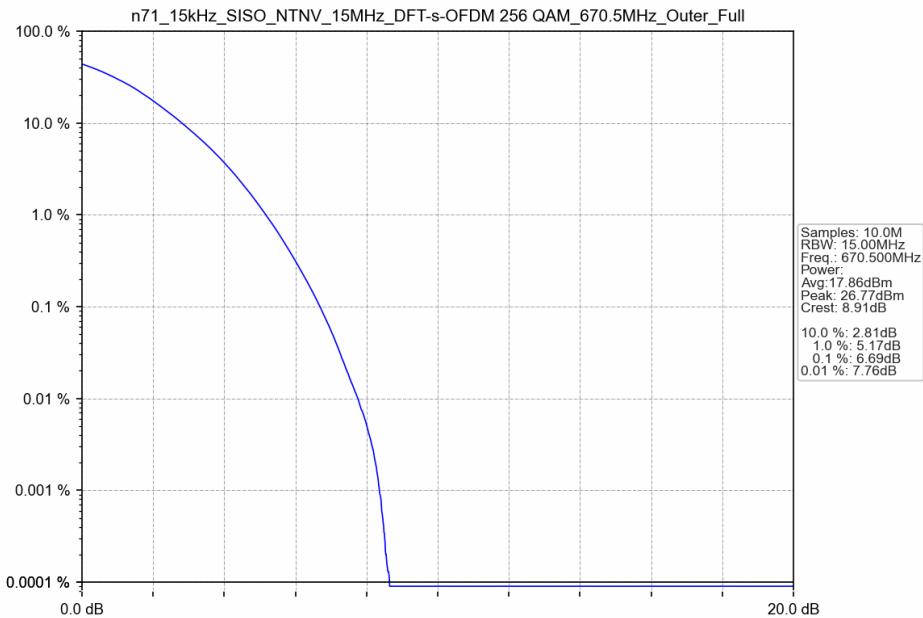
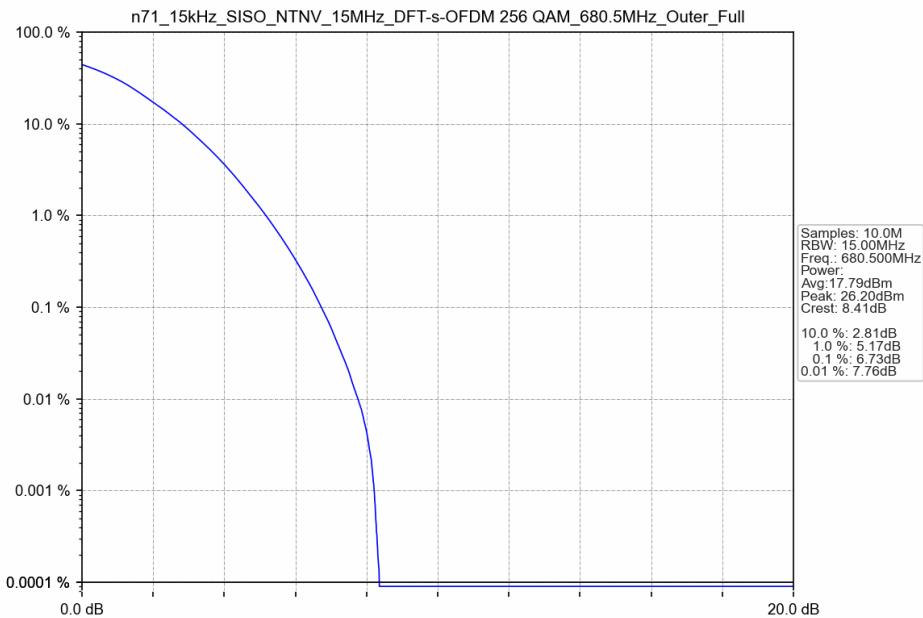
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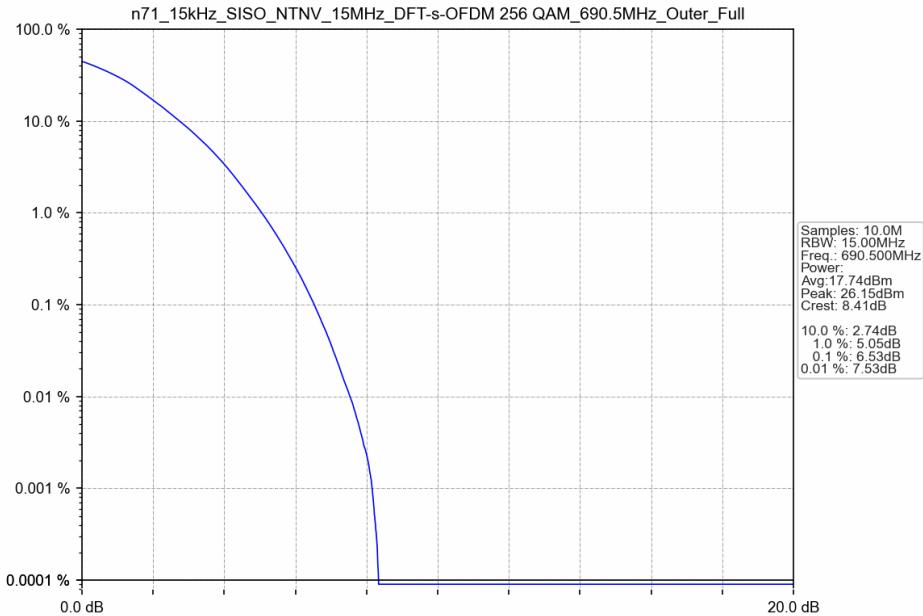
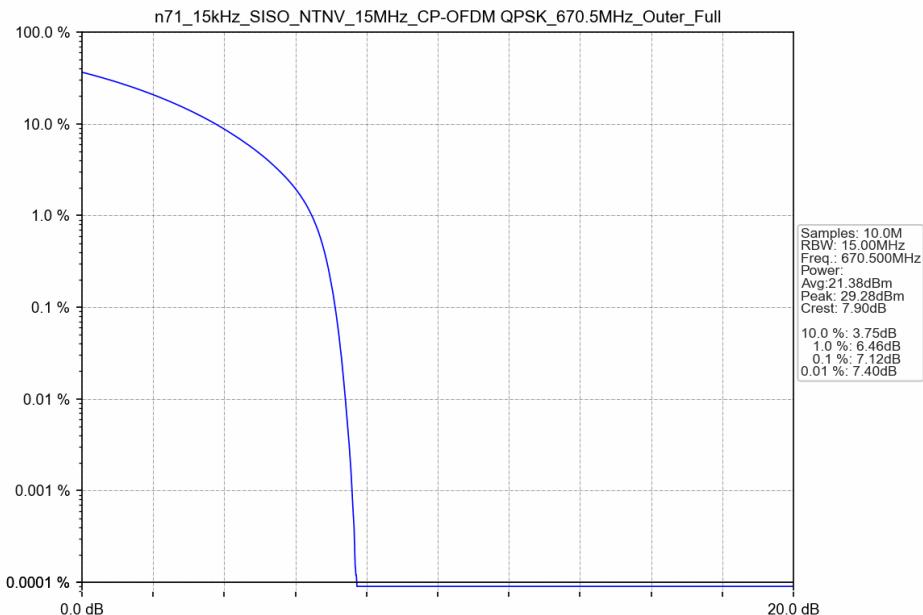
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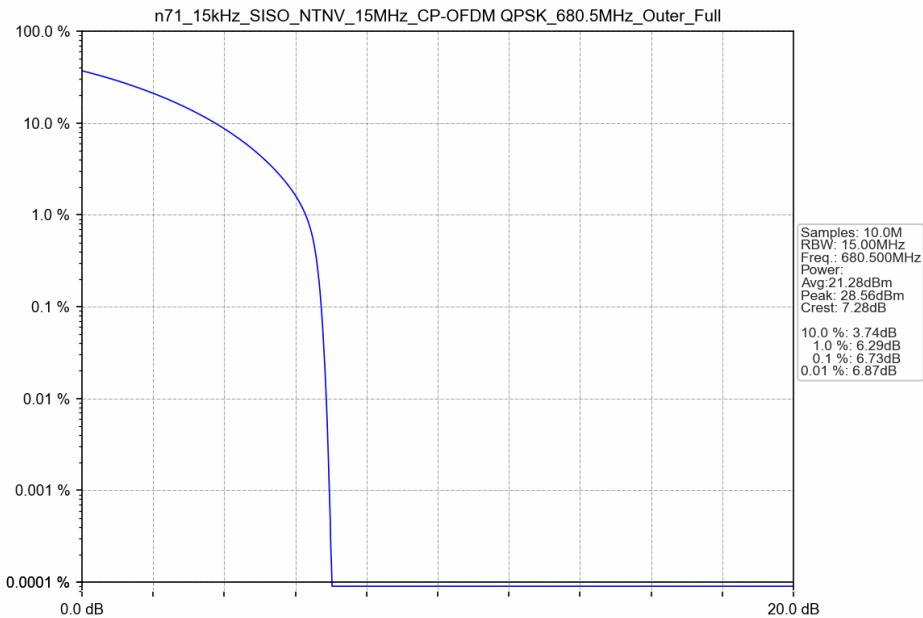
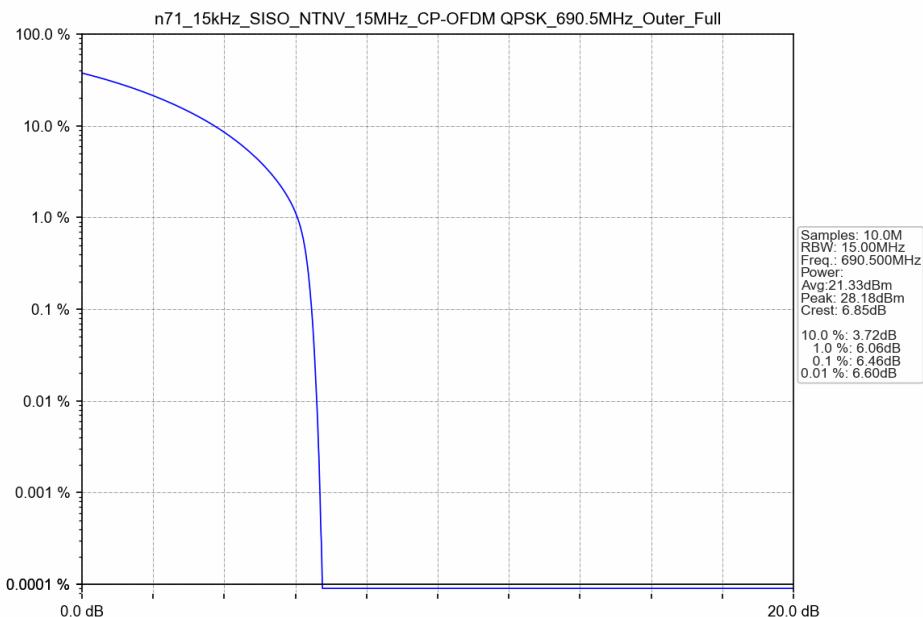
**n71\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_690.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_670.5MHz\_Outer\_Full**

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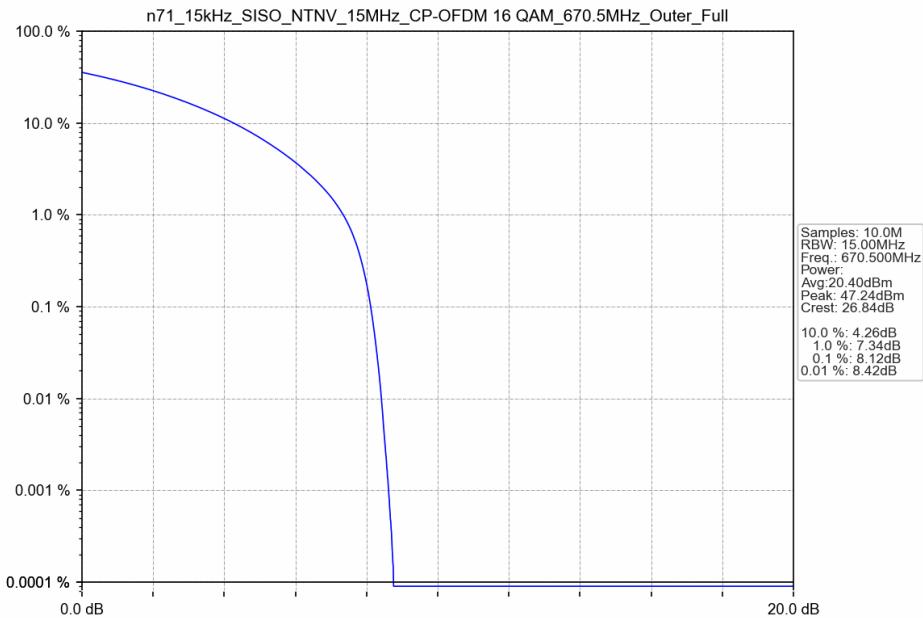
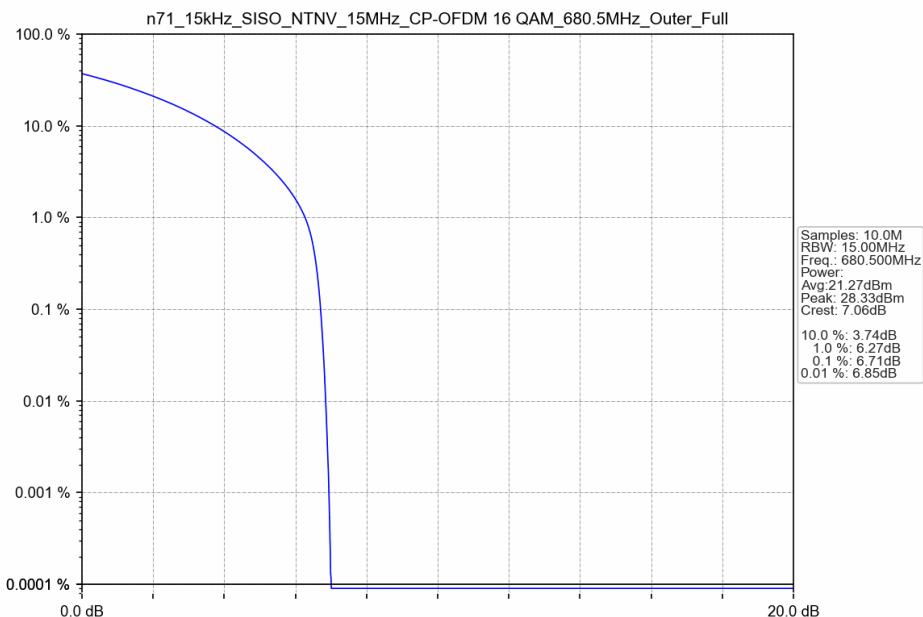
**n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_690.5MHz\_Outer\_Full**

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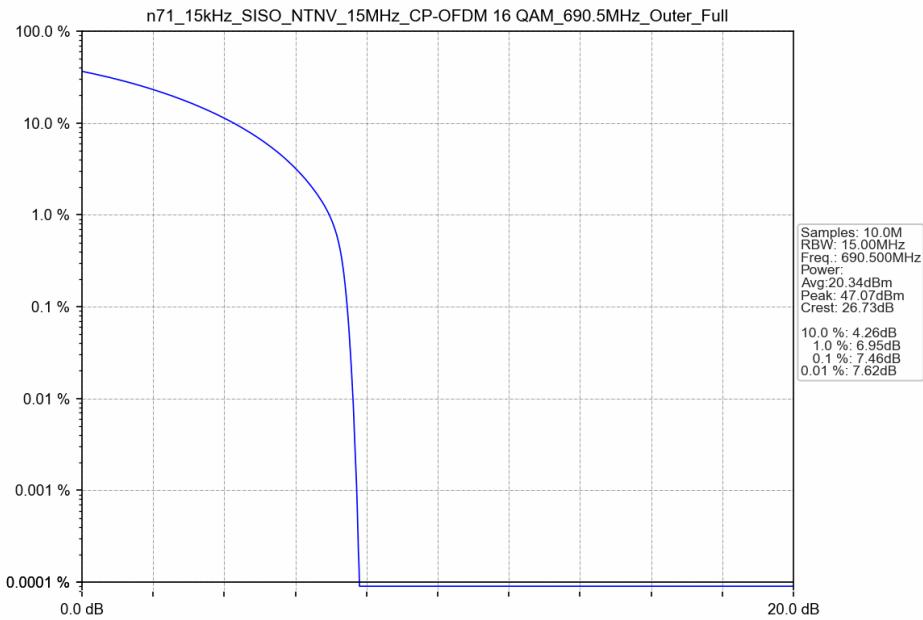
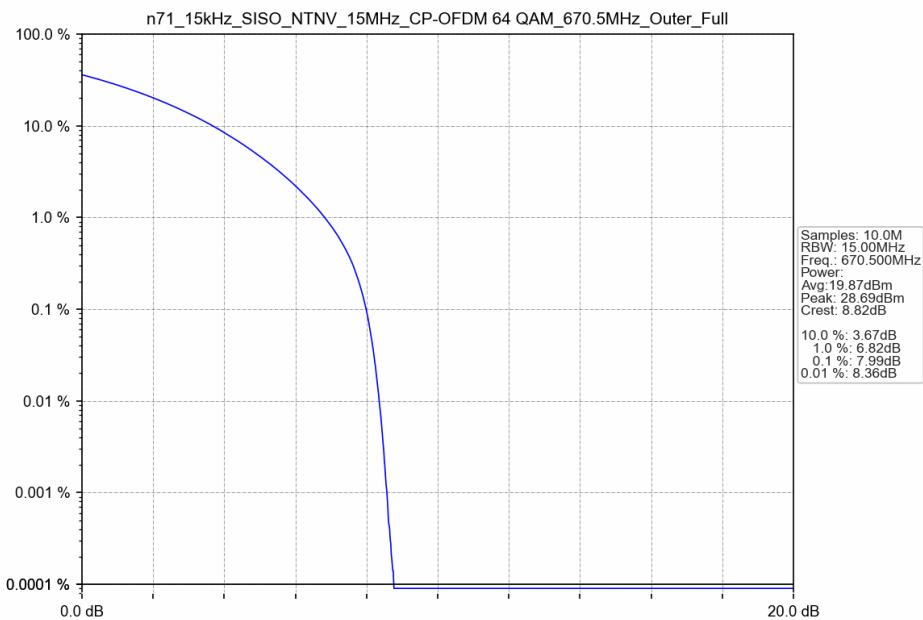
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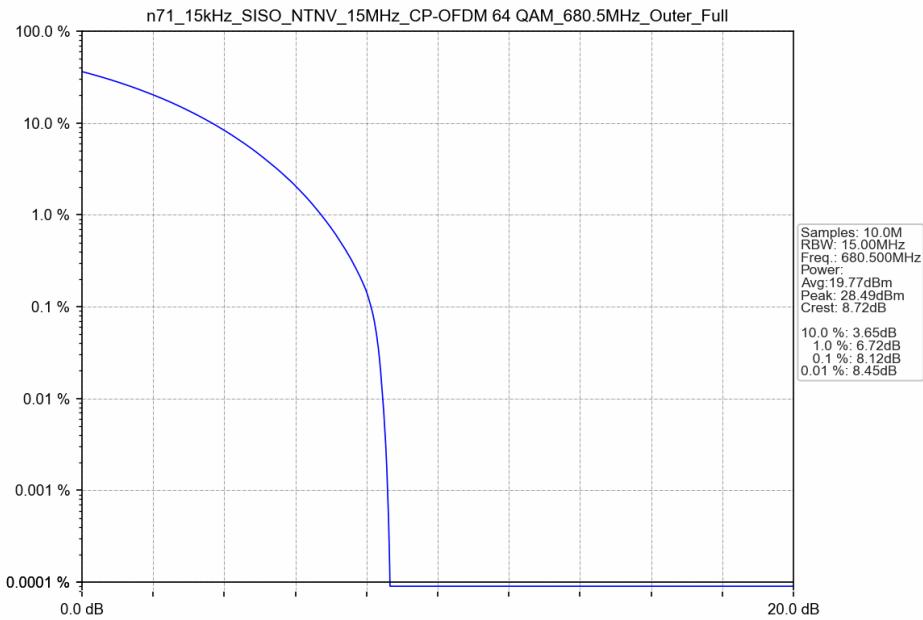
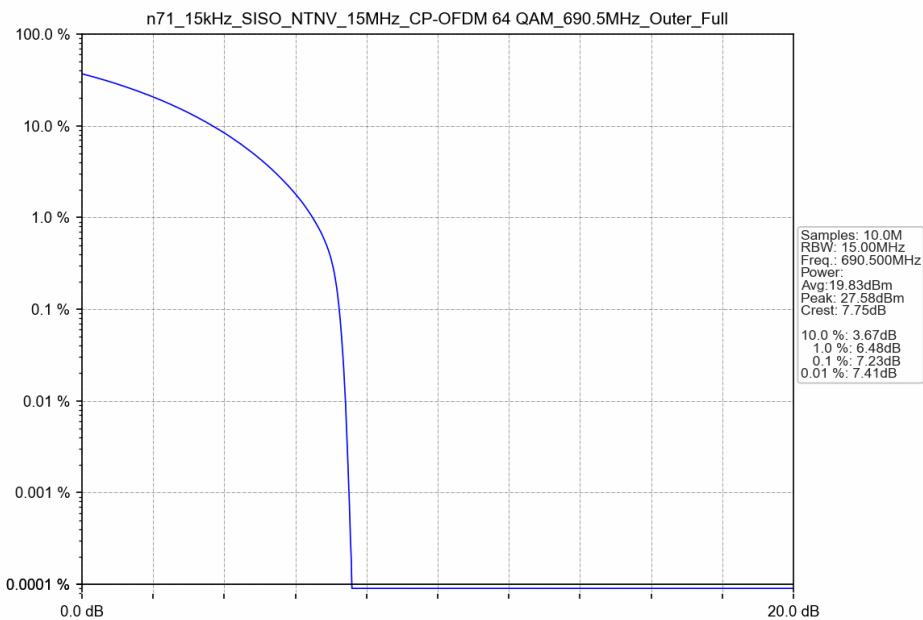
**n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM\_690.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_670.5MHz\_Outer\_Full**

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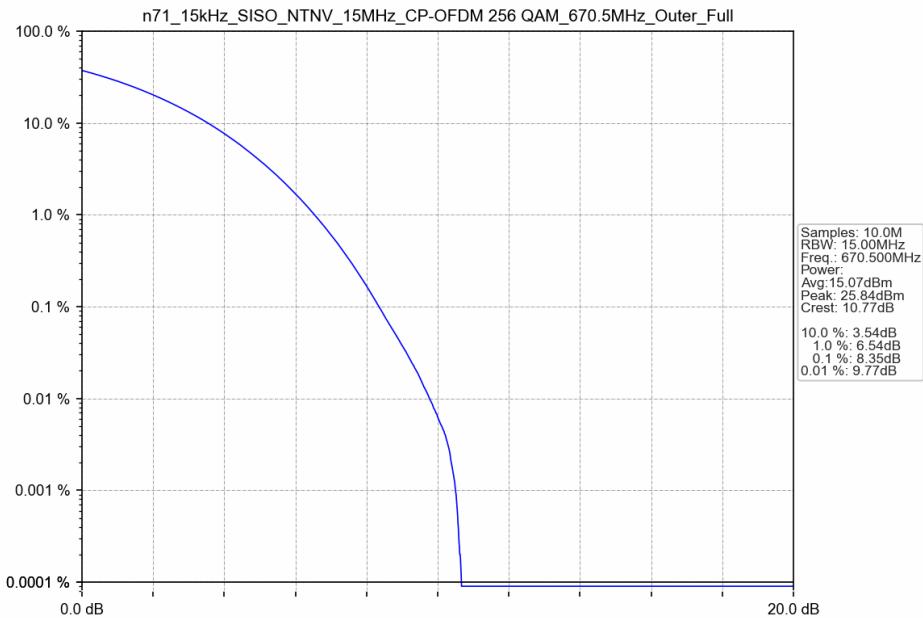
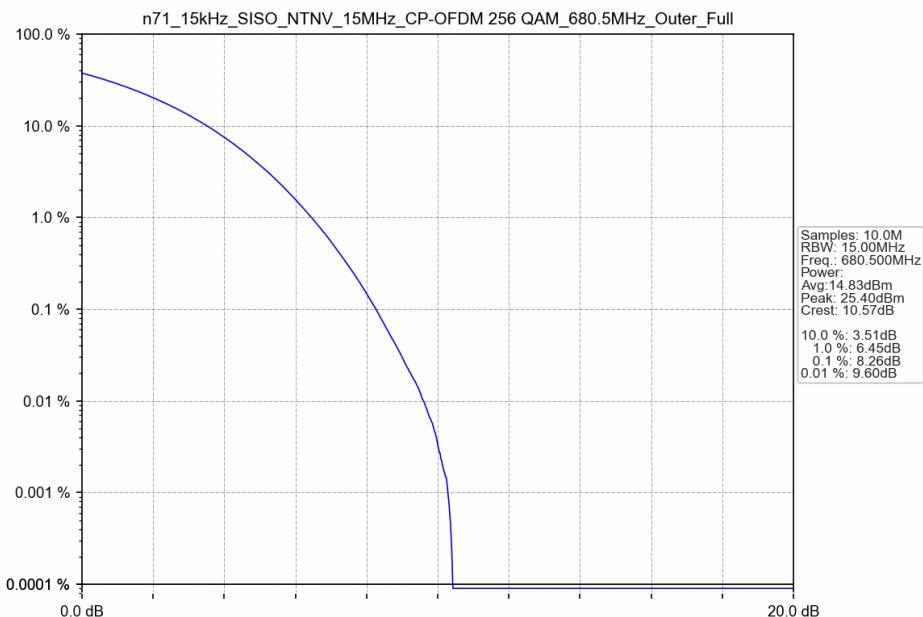
**n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_690.5MHz\_Outer\_Full**

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**n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_670.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_680.5MHz\_Outer\_Full**

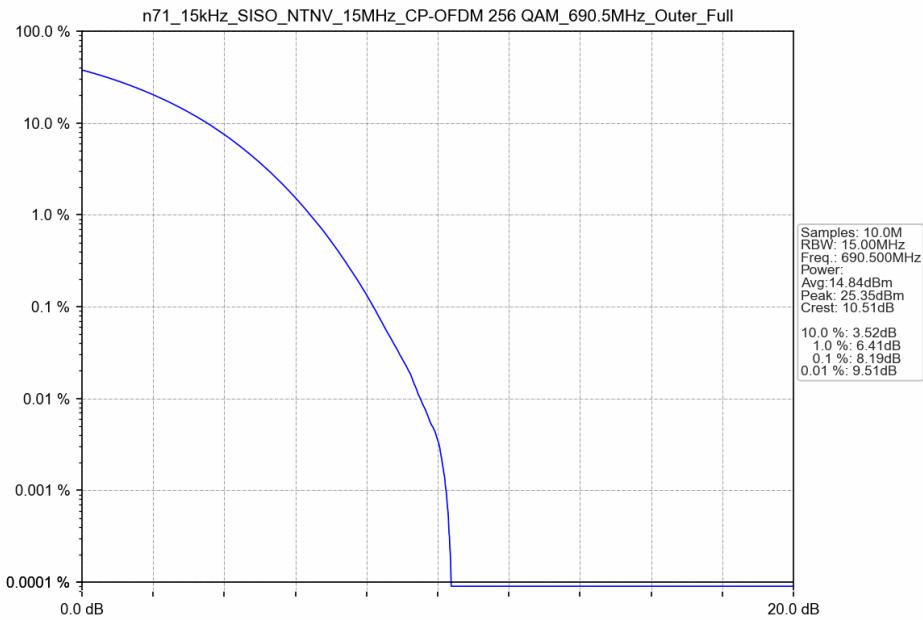
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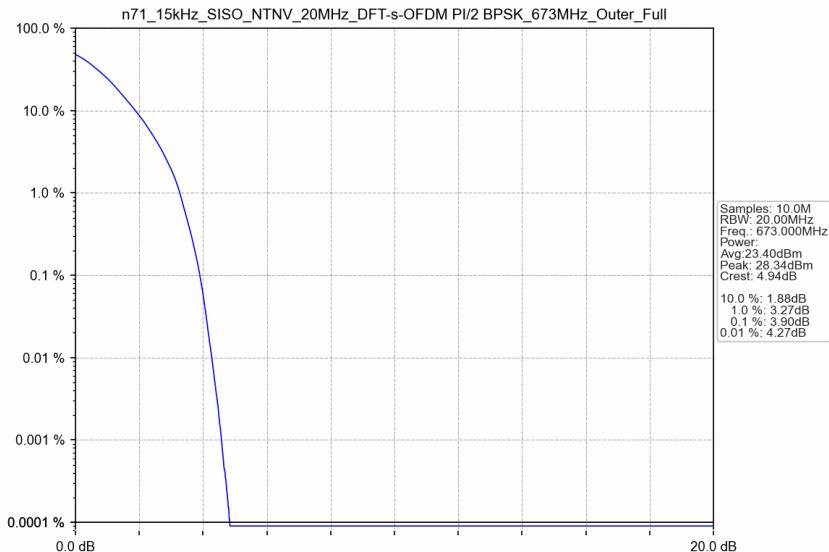
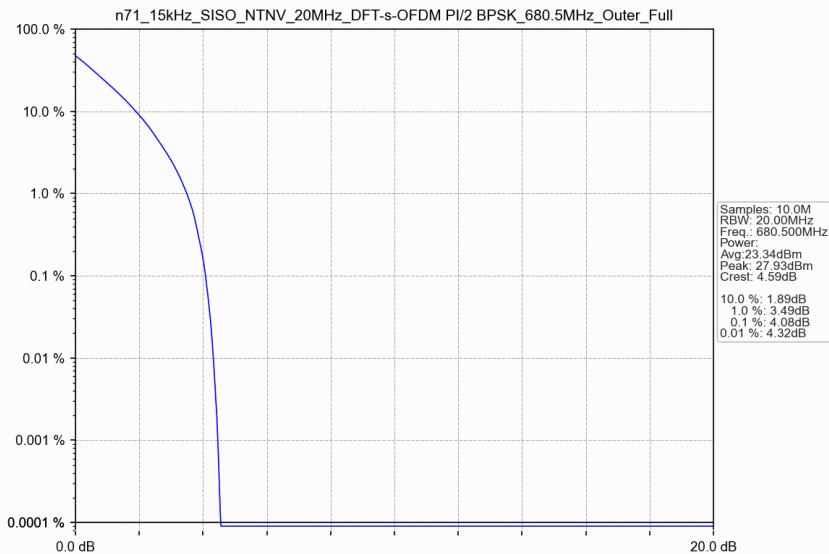


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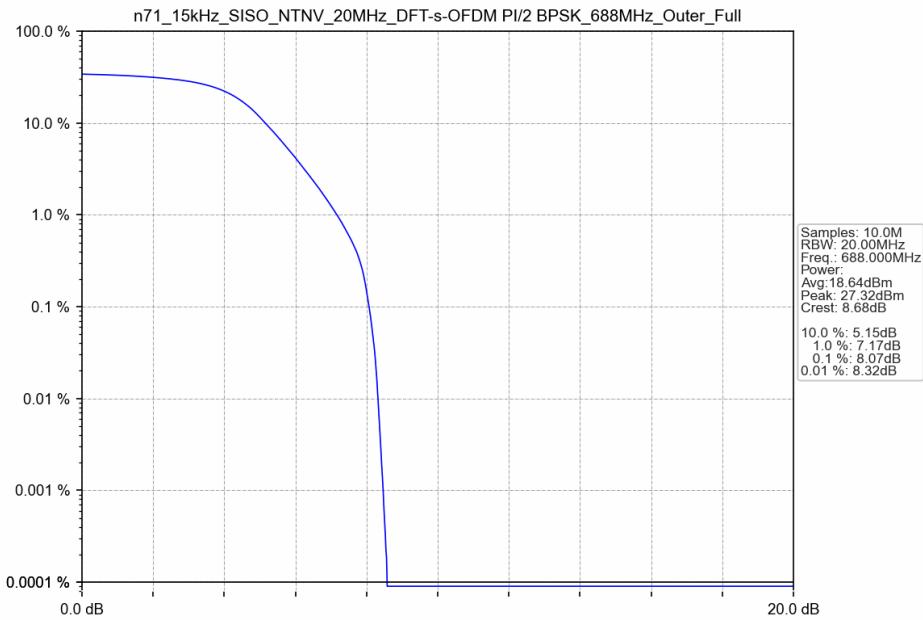
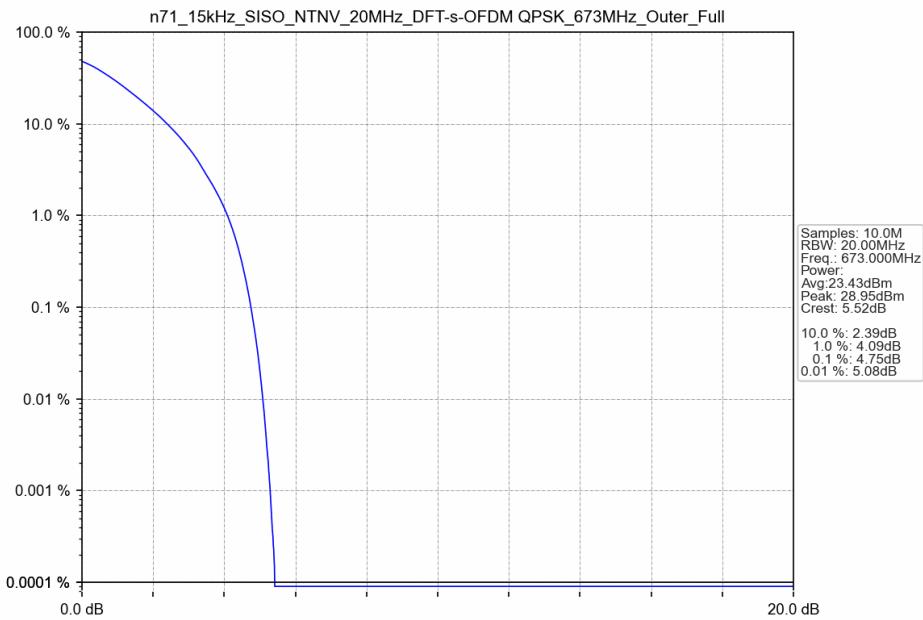
**4.2.4 15k\_SISO\_20MHz\_NTNV****n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_673MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_680.5MHz\_Outer\_Full**

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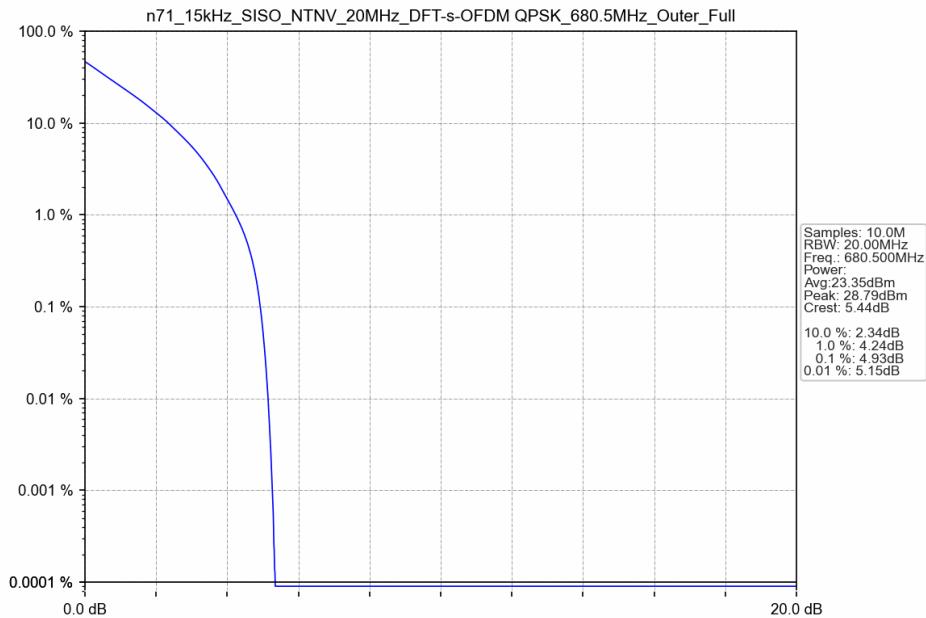
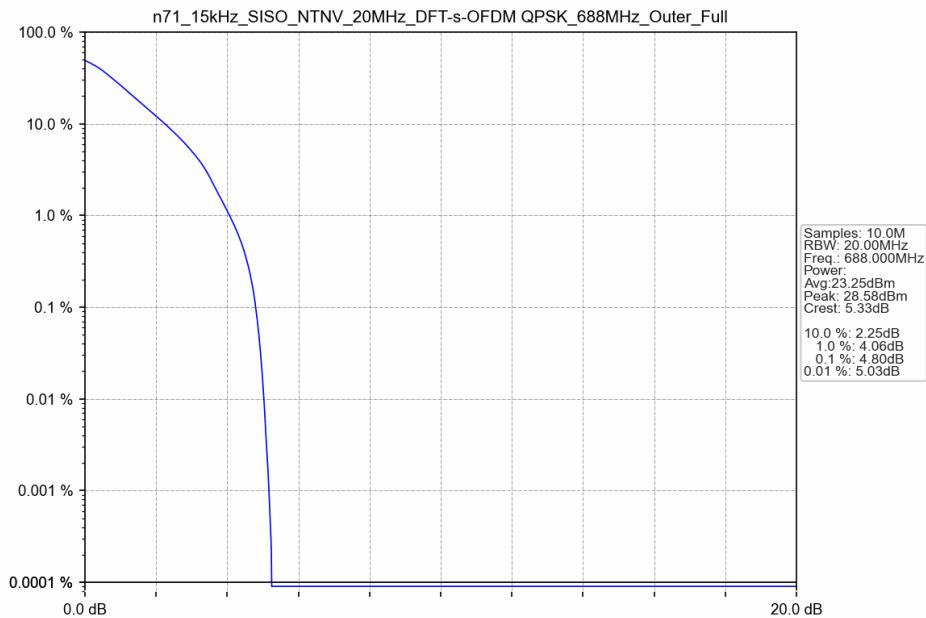
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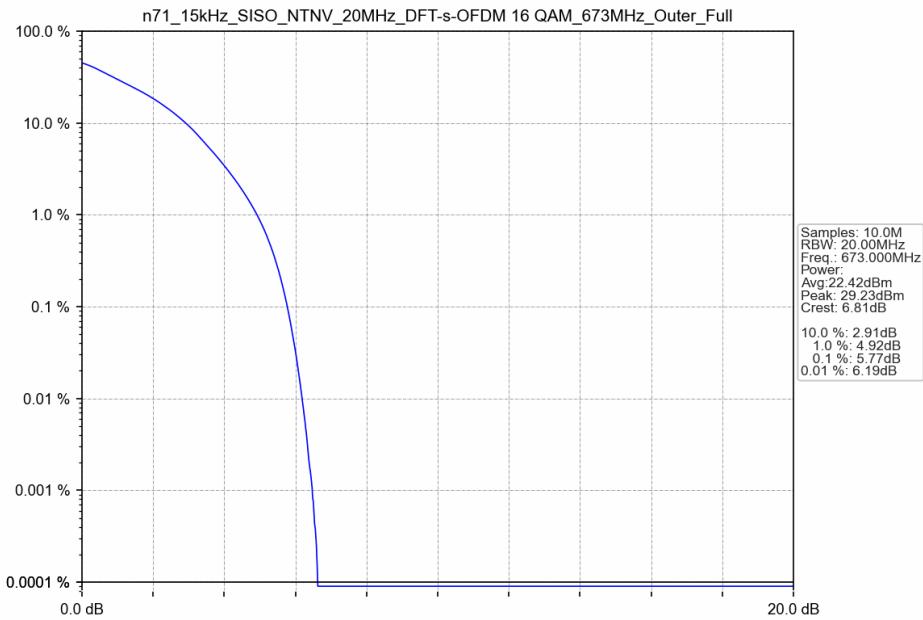
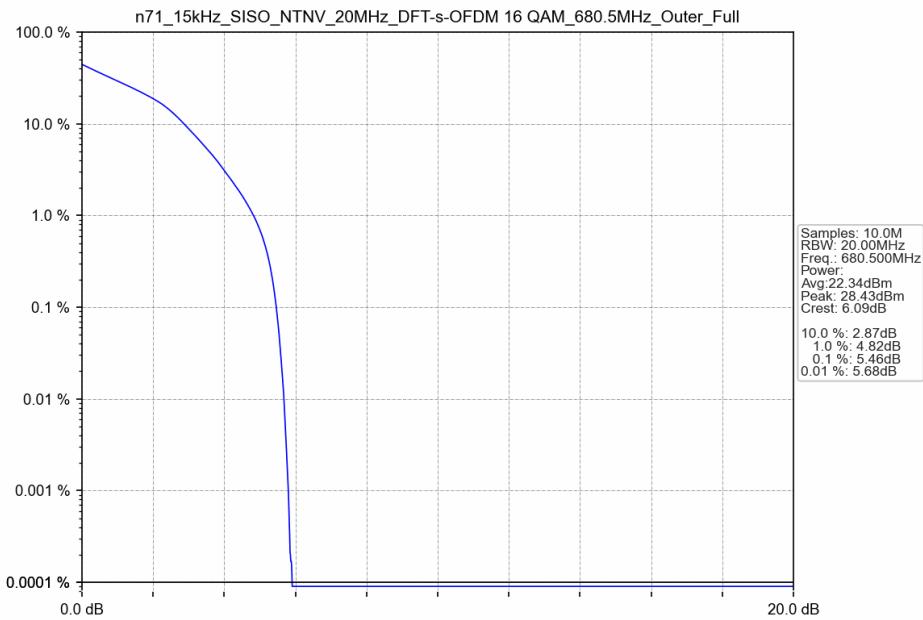
**n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_680.5MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_688MHz\_Outer\_Full**

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**n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_673MHz\_Outer\_Full****n71\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_680.5MHz\_Outer\_Full**

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