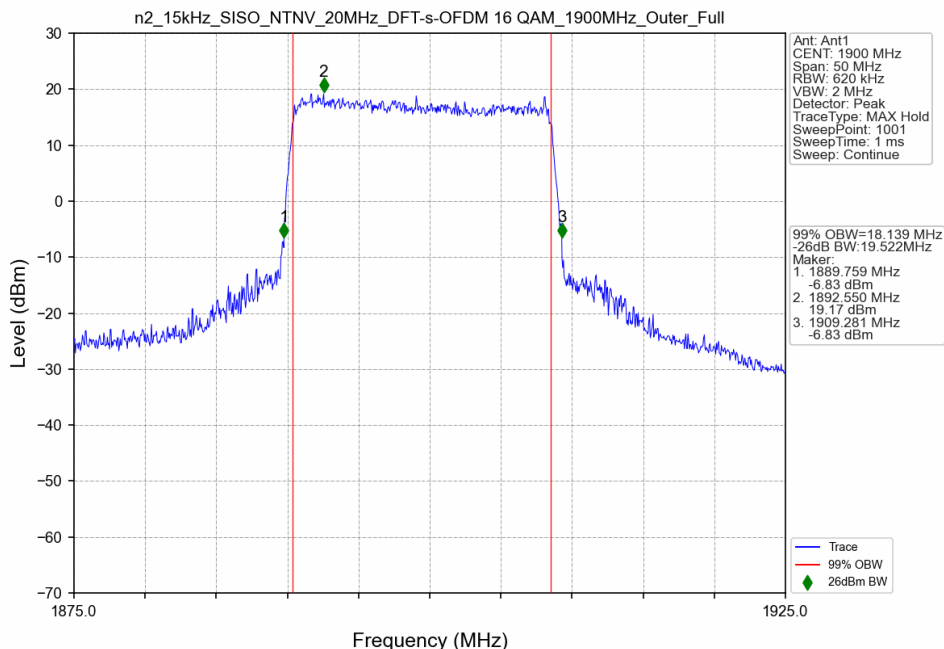
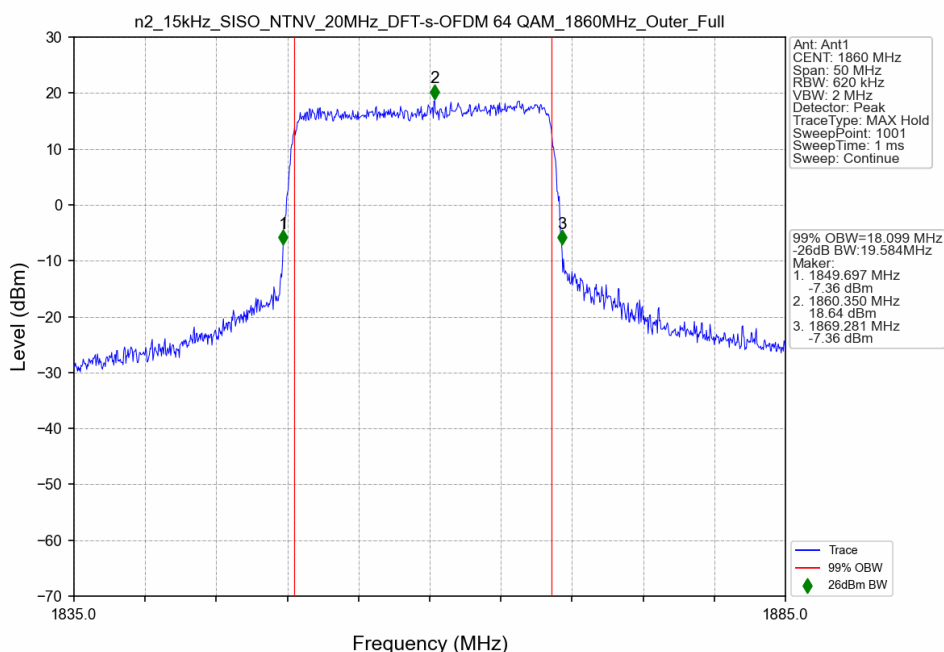


n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1860MHz_Outer_Full

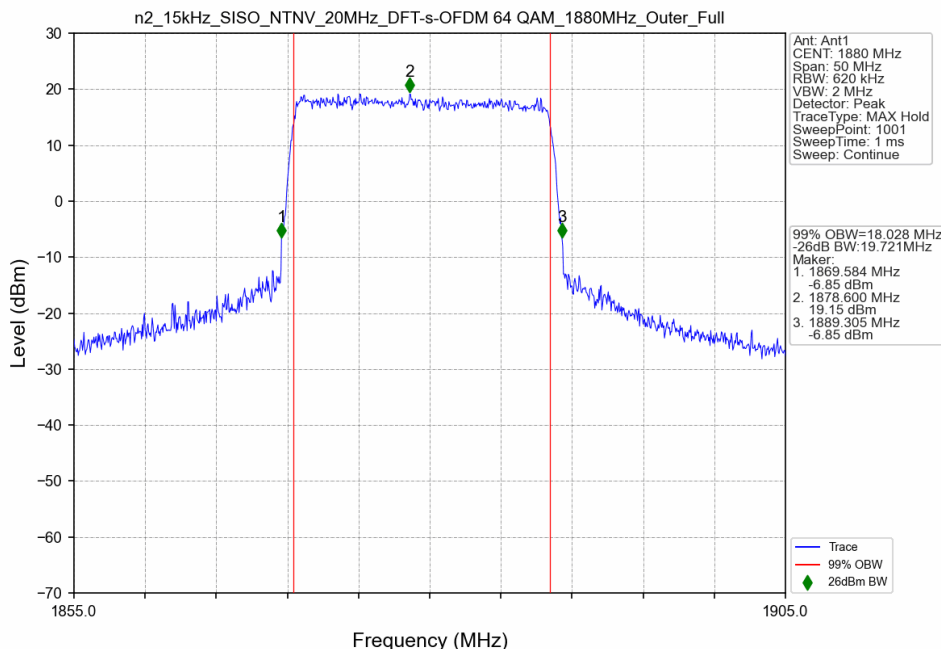


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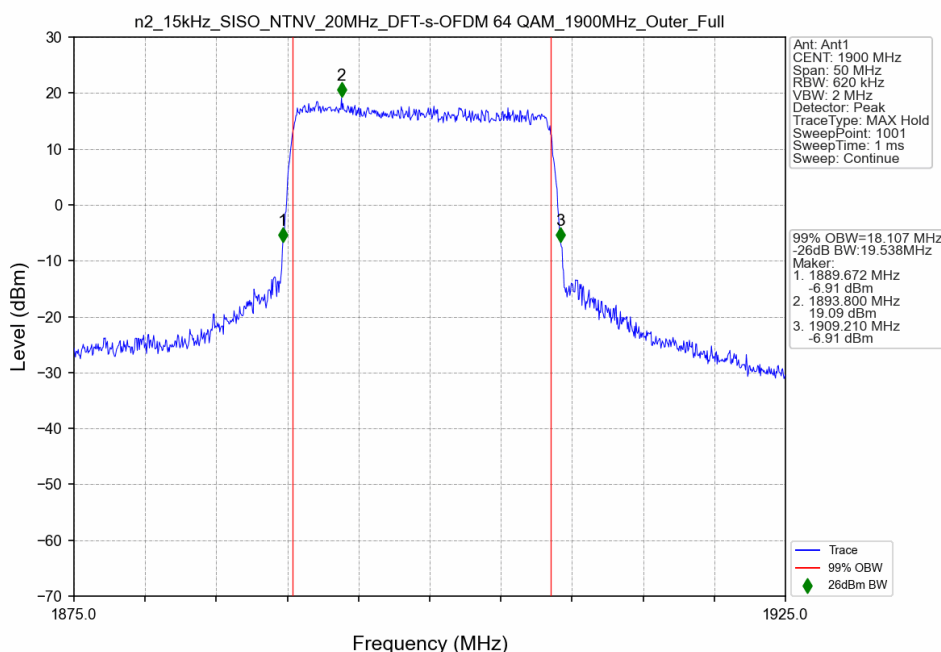
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1900MHz_Outer_Full

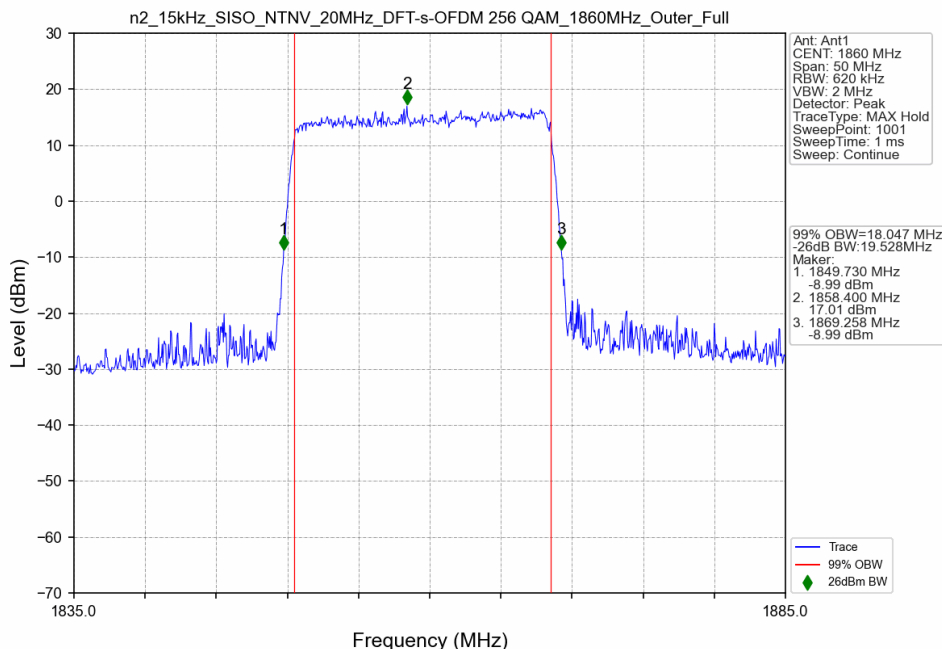


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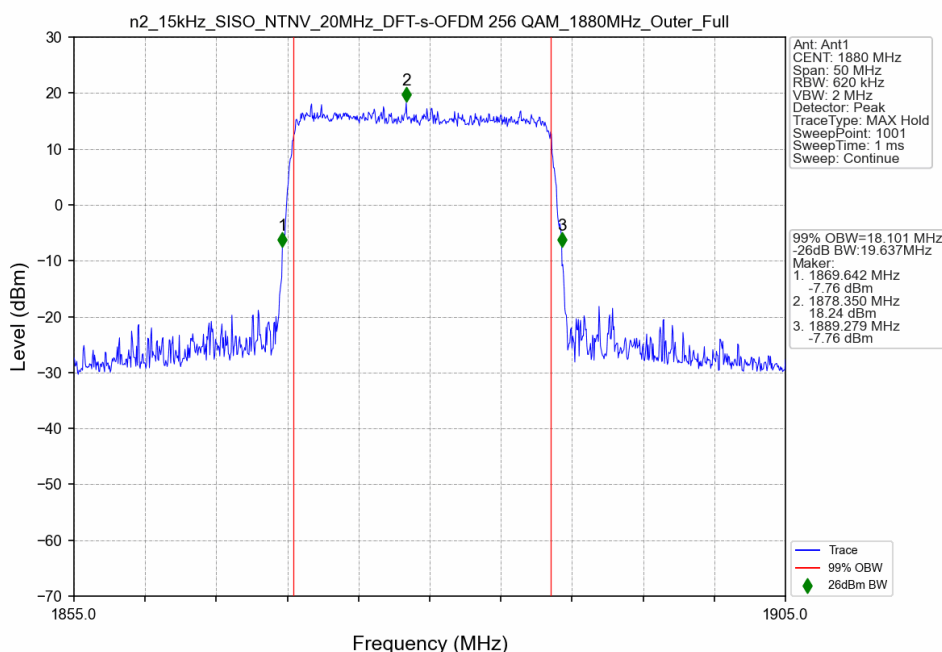
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full

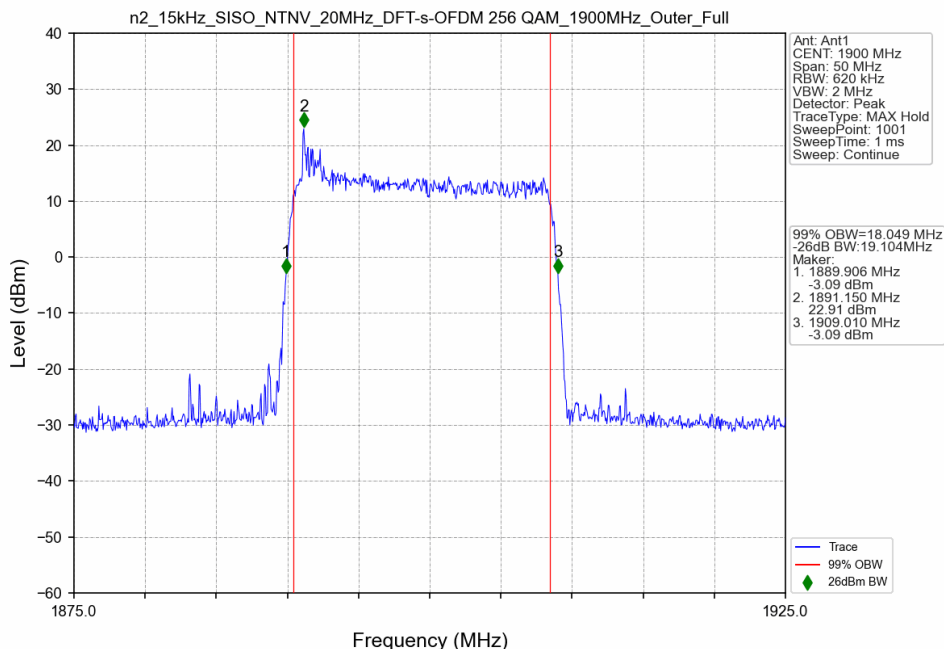


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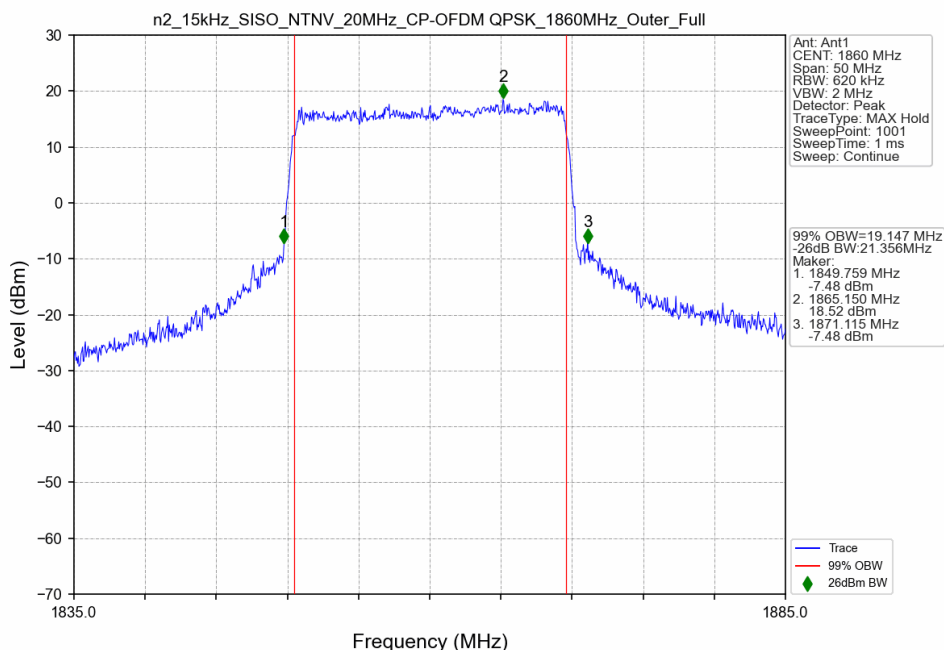
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Outer_Full

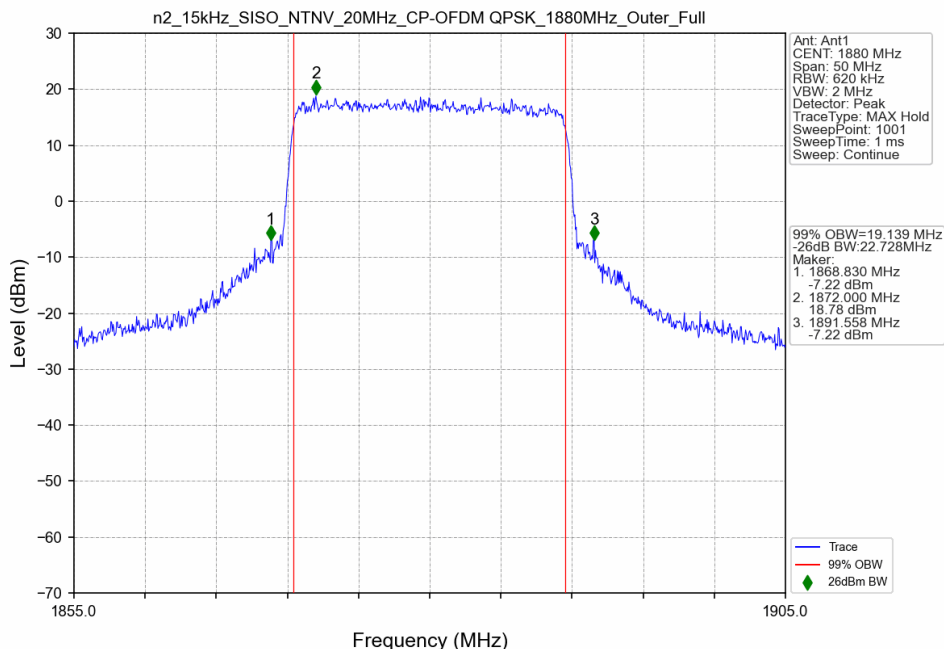


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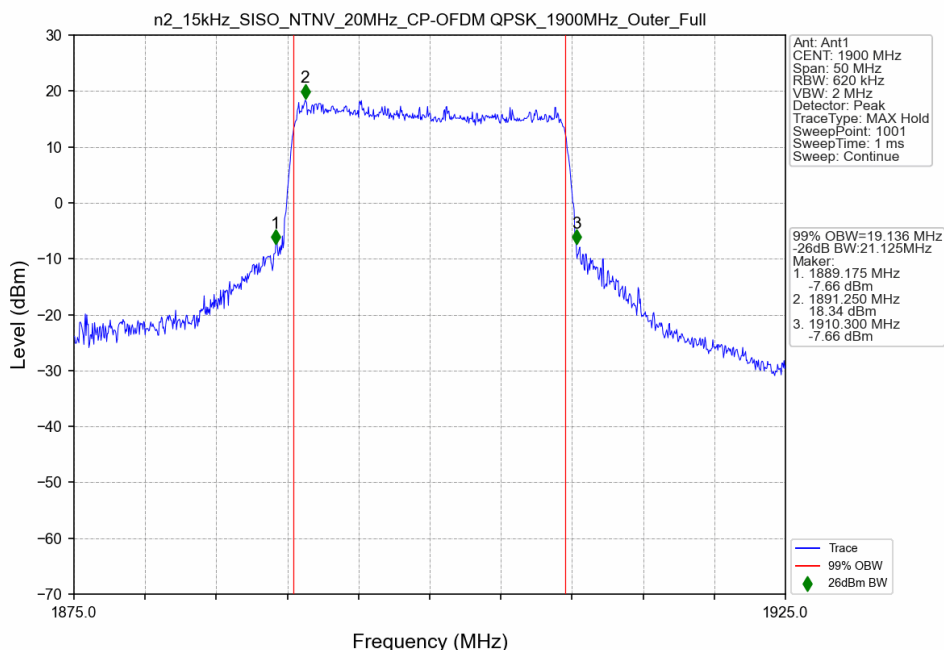
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Outer_Full

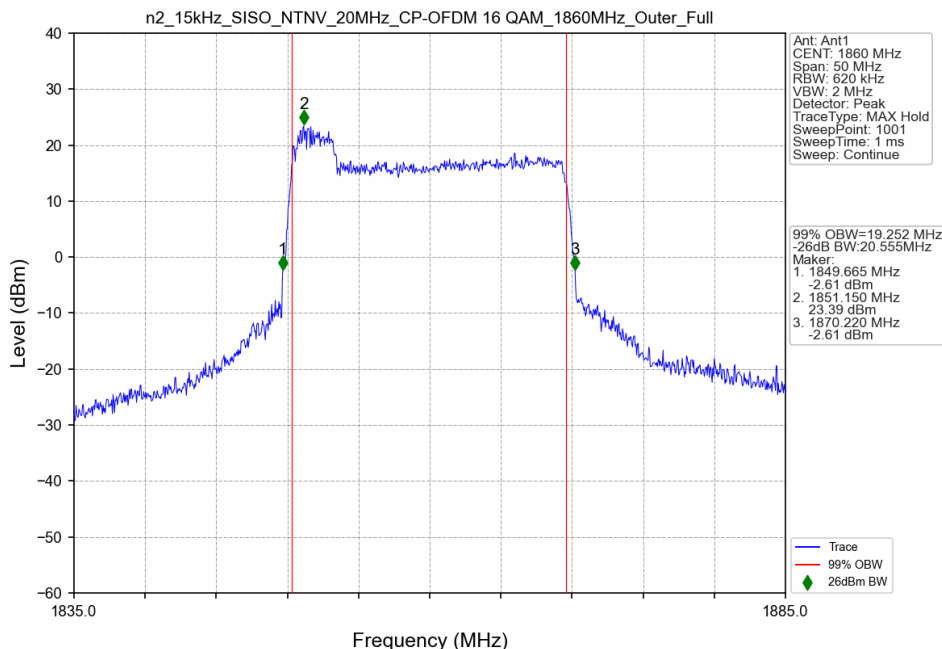


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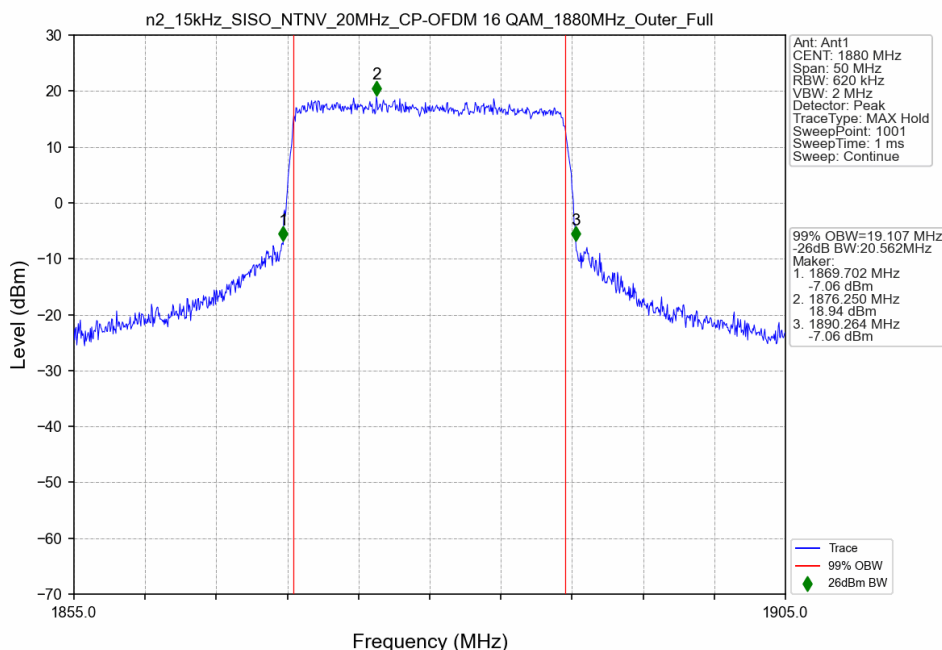
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full

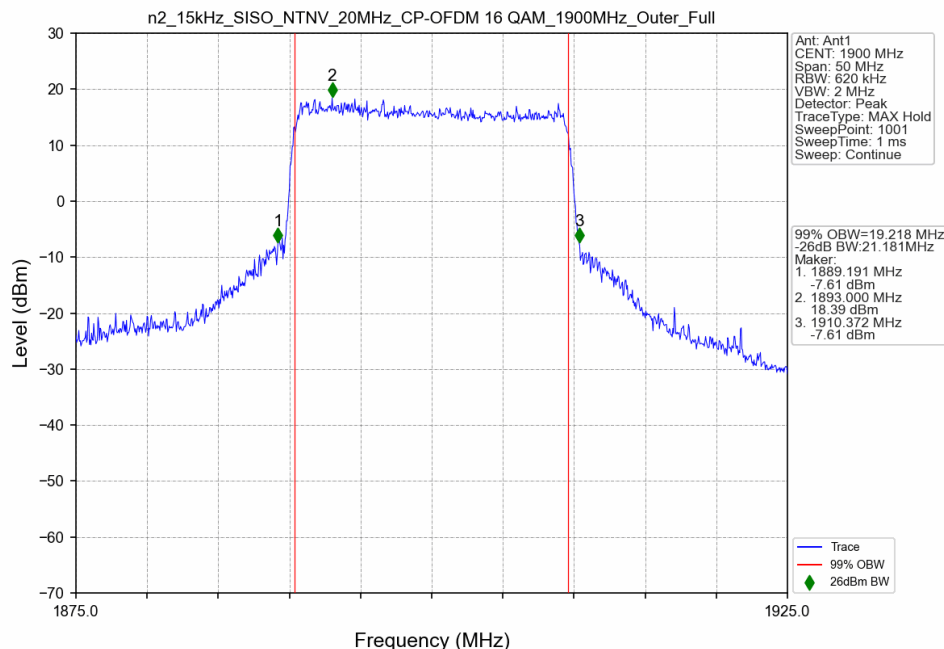


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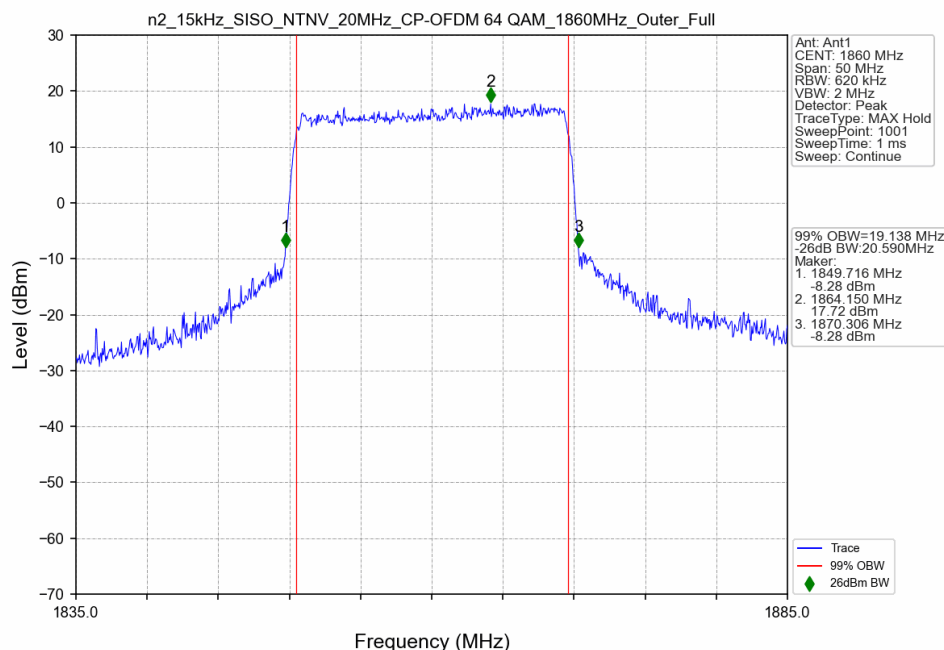
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1860MHz_Outer_Full

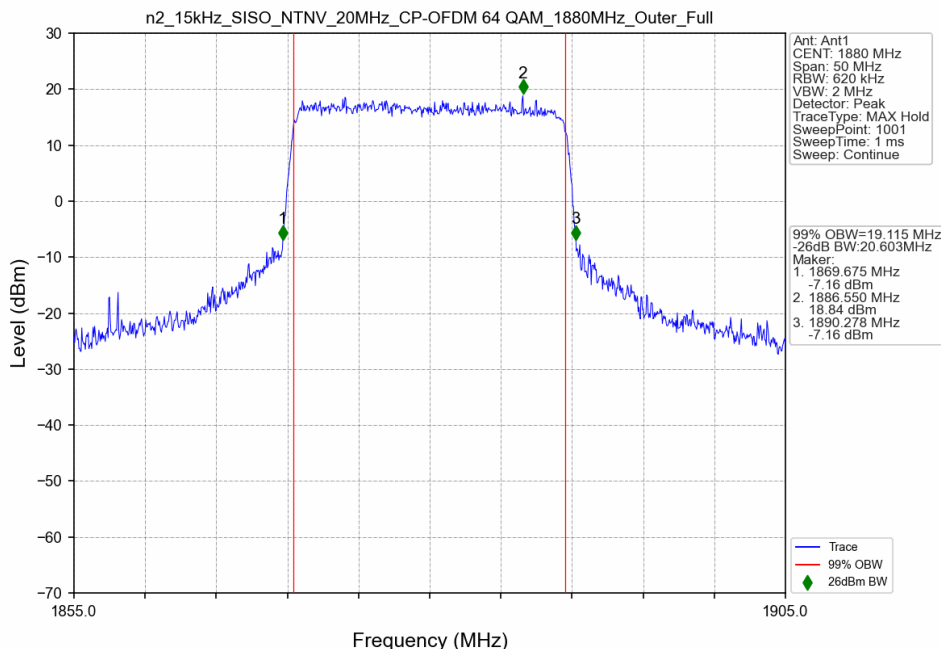


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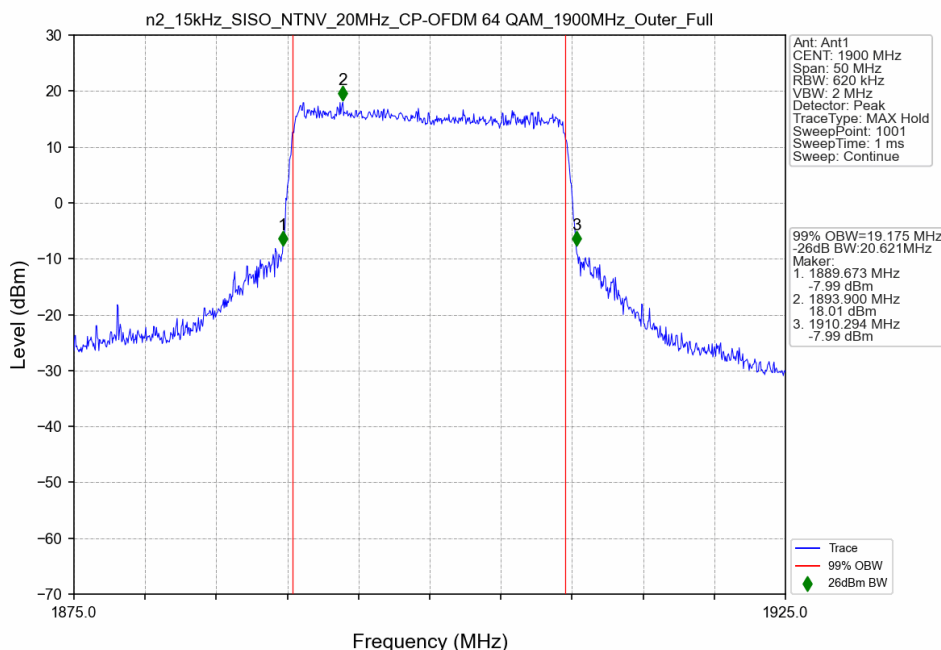
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1900MHz_Outer_Full

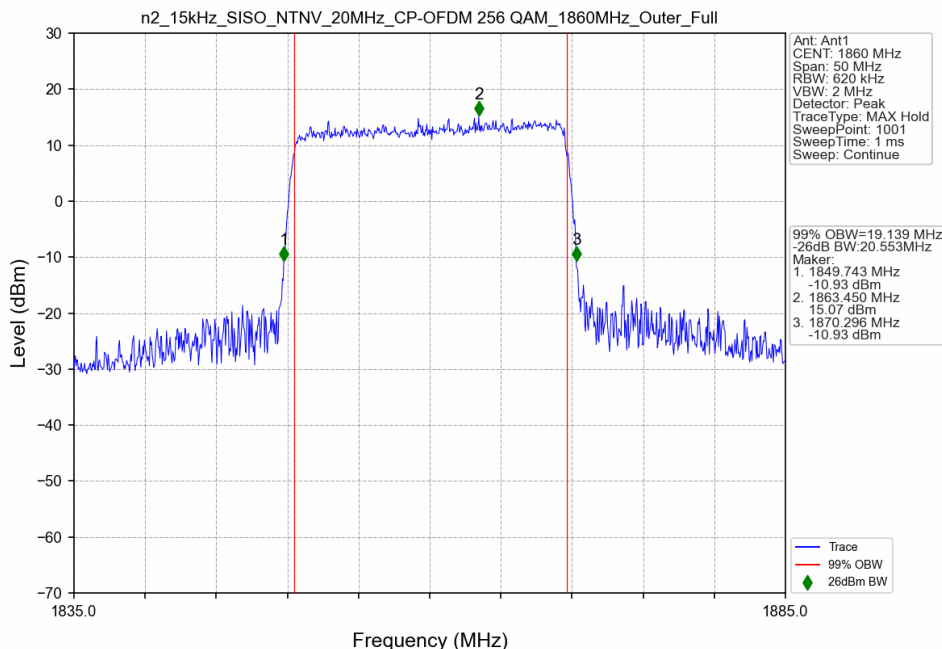


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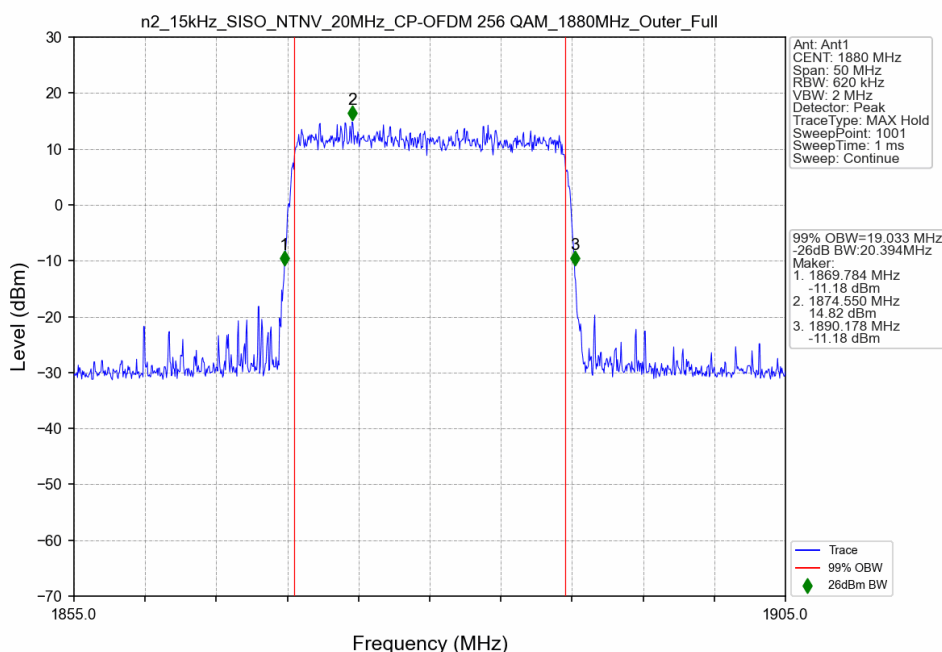
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full

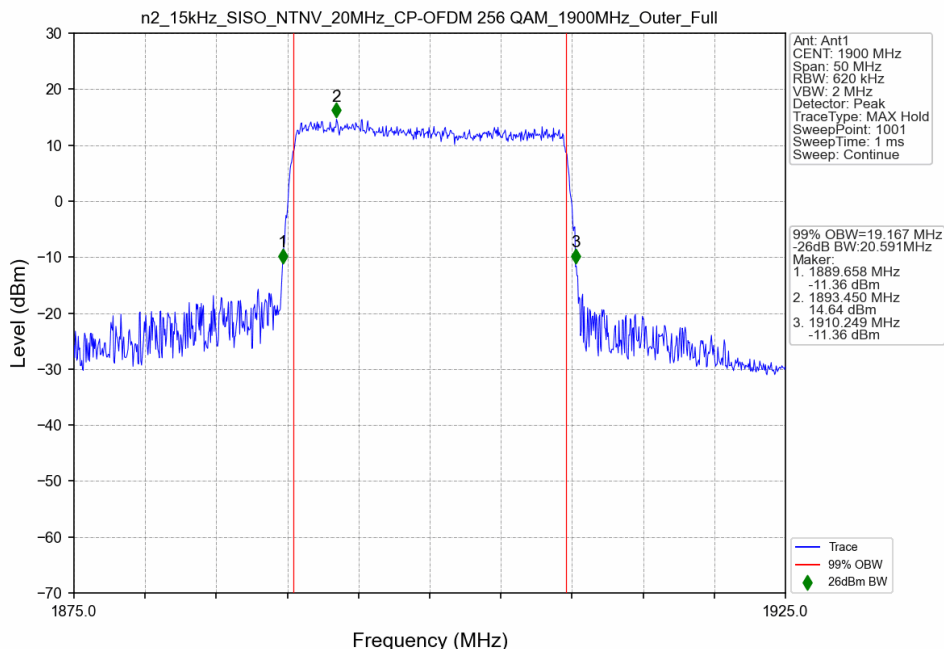


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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1900MHz_Outer_Full



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4. Peak-Average Ratio

4.1 Test Result

4.1.1 15k_SISO_5MHz_NTNV

5G NR n2 SCS=15kHz SISO 5MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1852.5	Outer_Full	3.80	/	/	<=13	Pass
	1880	Outer_Full	3.70	/	/	<=13	Pass
	1907.5	Outer_Full	4.09	/	/	<=13	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	4.62	/	/	<=13	Pass
	1880	Outer_Full	4.55	/	/	<=13	Pass
	1907.5	Outer_Full	7.40	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	5.60	/	/	<=13	Pass
	1880	Outer_Full	5.74	/	/	<=13	Pass
	1907.5	Outer_Full	5.82	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	5.94	/	/	<=13	Pass
	1880	Outer_Full	6.08	/	/	<=13	Pass
	1907.5	Outer_Full	9.90	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	7.47	/	/	<=13	Pass
	1880	Outer_Full	7.10	/	/	<=13	Pass
	1907.5	Outer_Full	7.32	/	/	<=13	Pass
CP-OFDM QPSK	1852.5	Outer_Full	6.89	/	/	<=13	Pass
	1880	Outer_Full	7.90	/	/	<=13	Pass
	1907.5	Outer_Full	7.19	/	/	<=13	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	6.75	/	/	<=13	Pass
	1880	Outer_Full	9.17	/	/	<=13	Pass
	1907.5	Outer_Full	7.12	/	/	<=13	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	9.34	/	/	<=13	Pass
	1880	Outer_Full	7.50	/	/	<=13	Pass
	1907.5	Outer_Full	7.12	/	/	<=13	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	8.42	/	/	<=13	Pass
	1880	Outer_Full	8.44	/	/	<=13	Pass
	1907.5	Outer_Full	8.45	/	/	<=13	Pass



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4.1.2 15k_SISO_10MHz_NTNV

5G NR n2 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	4.14	/	/	<=13	Pass
	1880	Outer_Full	3.91	/	/	<=13	Pass
	1905	Outer_Full	4.08	/	/	<=13	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	4.79	/	/	<=13	Pass
	1880	Outer_Full	4.76	/	/	<=13	Pass
	1905	Outer_Full	4.92	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	8.24	/	/	<=13	Pass
	1880	Outer_Full	5.89	/	/	<=13	Pass
	1905	Outer_Full	5.88	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	6.12	/	/	<=13	Pass
	1880	Outer_Full	8.03	/	/	<=13	Pass
	1905	Outer_Full	6.24	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	7.88	/	/	<=13	Pass
	1880	Outer_Full	6.57	/	/	<=13	Pass
	1905	Outer_Full	6.62	/	/	<=13	Pass
CP-OFDM QPSK	1855	Outer_Full	7.18	/	/	<=13	Pass
	1880	Outer_Full	6.49	/	/	<=13	Pass
	1905	Outer_Full	7.02	/	/	<=13	Pass
CP-OFDM 16 QAM	1855	Outer_Full	7.92	/	/	<=13	Pass
	1880	Outer_Full	7.10	/	/	<=13	Pass
	1905	Outer_Full	6.70	/	/	<=13	Pass
CP-OFDM 64 QAM	1855	Outer_Full	7.49	/	/	<=13	Pass
	1880	Outer_Full	6.97	/	/	<=13	Pass
	1905	Outer_Full	7.19	/	/	<=13	Pass
CP-OFDM 256 QAM	1855	Outer_Full	8.42	/	/	<=13	Pass
	1880	Outer_Full	8.36	/	/	<=13	Pass
	1905	Outer_Full	8.46	/	/	<=13	Pass

4.1.3 15k_SISO_15MHz_NTNV

5G NR n2 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	



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DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	4.20	/	/	<=13	Pass
	1880	Outer_Full	4.02	/	/	<=13	Pass
	1902.5	Outer_Full	4.16	/	/	<=13	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	4.51	/	/	<=13	Pass
	1880	Outer_Full	4.10	/	/	<=13	Pass
	1902.5	Outer_Full	4.63	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	5.18	/	/	<=13	Pass
	1880	Outer_Full	5.36	/	/	<=13	Pass
	1902.5	Outer_Full	5.56	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	5.68	/	/	<=13	Pass
	1880	Outer_Full	5.80	/	/	<=13	Pass
	1902.5	Outer_Full	5.98	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	6.52	/	/	<=13	Pass
	1880	Outer_Full	8.09	/	/	<=13	Pass
	1902.5	Outer_Full	8.05	/	/	<=13	Pass
CP-OFDM QPSK	1857.5	Outer_Full	6.83	/	/	<=13	Pass
	1880	Outer_Full	6.55	/	/	<=13	Pass
	1902.5	Outer_Full	6.86	/	/	<=13	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	6.57	/	/	<=13	Pass
	1880	Outer_Full	6.49	/	/	<=13	Pass
	1902.5	Outer_Full	6.92	/	/	<=13	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	7.07	/	/	<=13	Pass
	1880	Outer_Full	7.12	/	/	<=13	Pass
	1902.5	Outer_Full	7.01	/	/	<=13	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	10.11	/	/	<=13	Pass
	1880	Outer_Full	8.31	/	/	<=13	Pass
	1902.5	Outer_Full	8.40	/	/	<=13	Pass

4.1.4 15k_SISO_20MHz_NTNV

5G NR n2 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	6.73	/	/	<=13	Pass
	1880	Outer_Full	4.17	/	/	<=13	Pass
	1900	Outer_Full	5.96	/	/	<=13	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	5.33	/	/	<=13	Pass
	1880	Outer_Full	4.38	/	/	<=13	Pass



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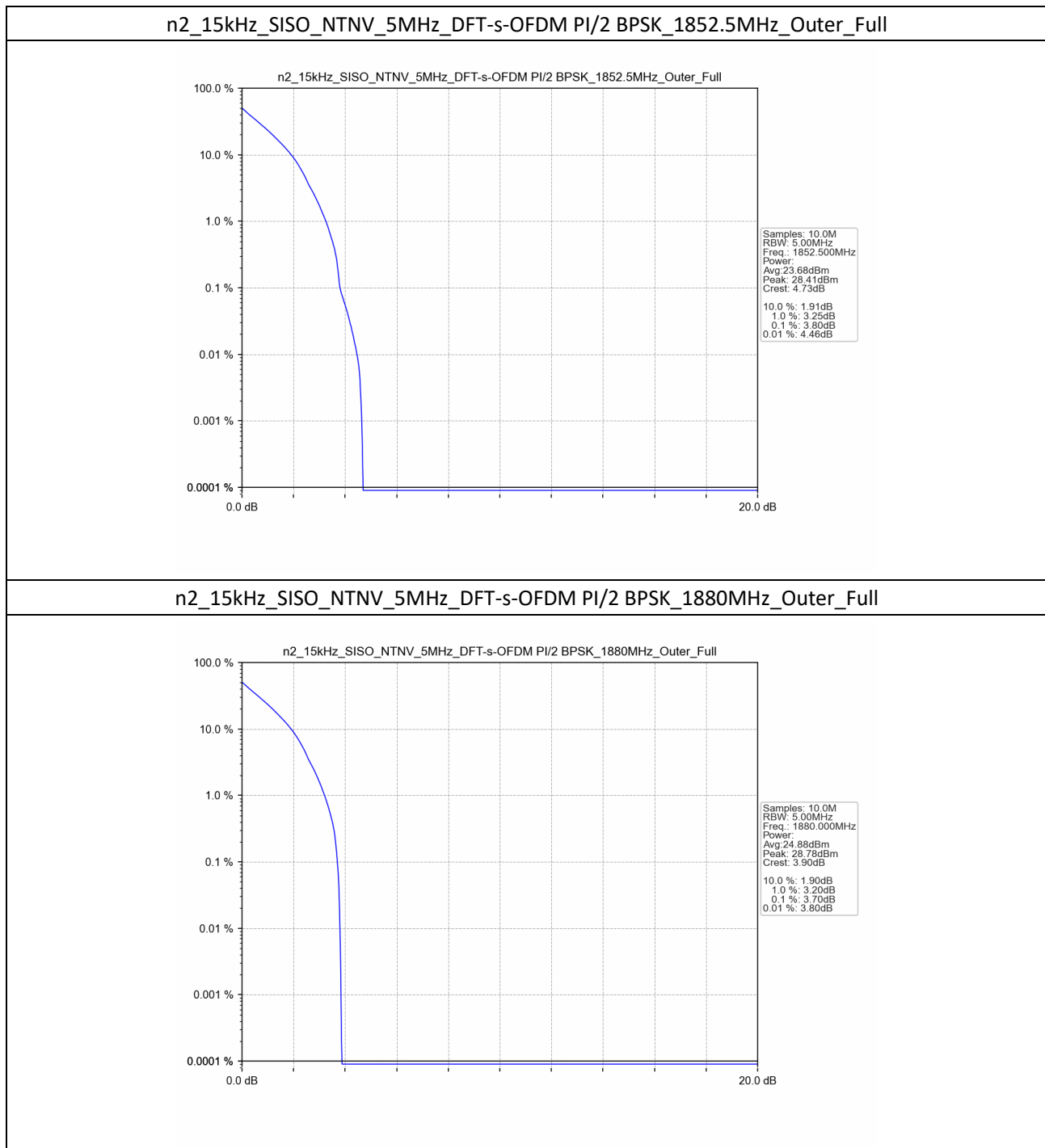
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	1900	Outer_Full	4.81	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	5.32	/	/	<=13	Pass
	1880	Outer_Full	5.46	/	/	<=13	Pass
	1900	Outer_Full	5.66	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	5.91	/	/	<=13	Pass
	1880	Outer_Full	6.11	/	/	<=13	Pass
	1900	Outer_Full	6.06	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	6.56	/	/	<=13	Pass
	1880	Outer_Full	9.60	/	/	<=13	Pass
	1900	Outer_Full	10.51	/	/	<=13	Pass
CP-OFDM QPSK	1860	Outer_Full	10.78	/	/	<=13	Pass
	1880	Outer_Full	6.69	/	/	<=13	Pass
	1900	Outer_Full	6.67	/	/	<=13	Pass
CP-OFDM 16 QAM	1860	Outer_Full	6.64	/	/	<=13	Pass
	1880	Outer_Full	6.65	/	/	<=13	Pass
	1900	Outer_Full	6.98	/	/	<=13	Pass
CP-OFDM 64 QAM	1860	Outer_Full	9.37	/	/	<=13	Pass
	1880	Outer_Full	7.12	/	/	<=13	Pass
	1900	Outer_Full	7.10	/	/	<=13	Pass
CP-OFDM 256 QAM	1860	Outer_Full	8.37	/	/	<=13	Pass
	1880	Outer_Full	11.49	/	/	<=13	Pass
	1900	Outer_Full	8.42	/	/	<=13	Pass



4.2 Test Graph

4.2.1 15k_SISO_5MHz_NTNV

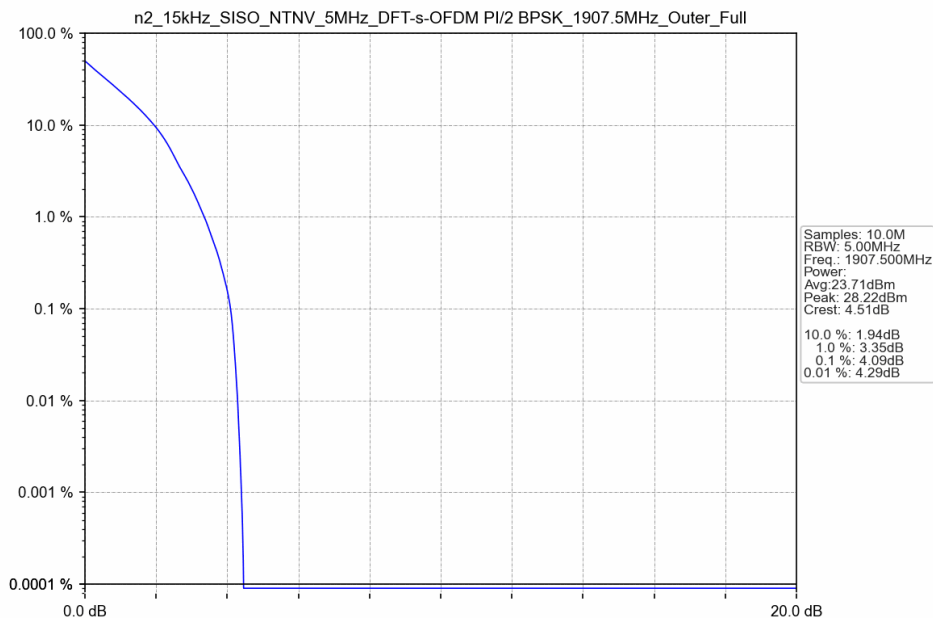


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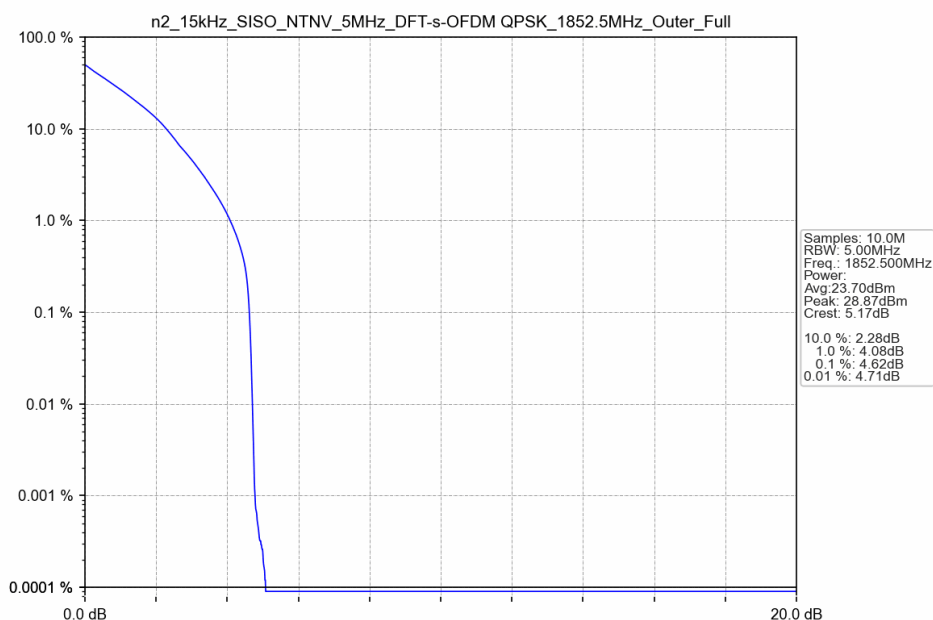
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full

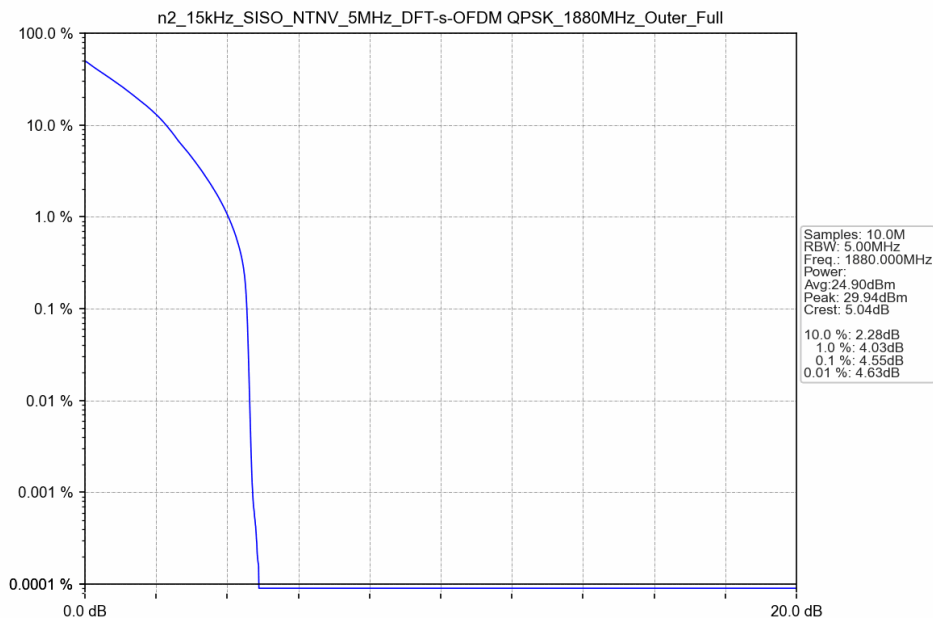


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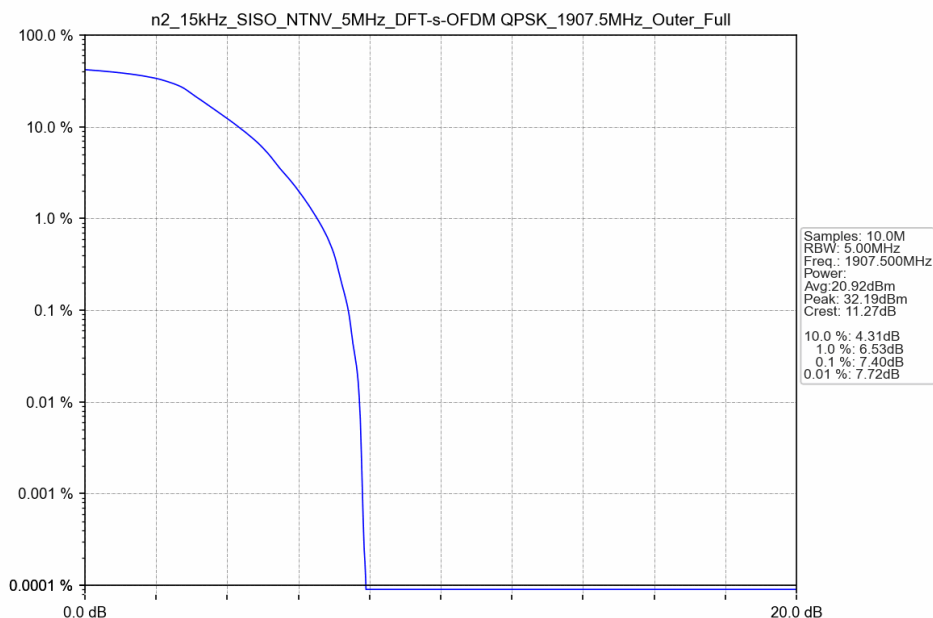
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full

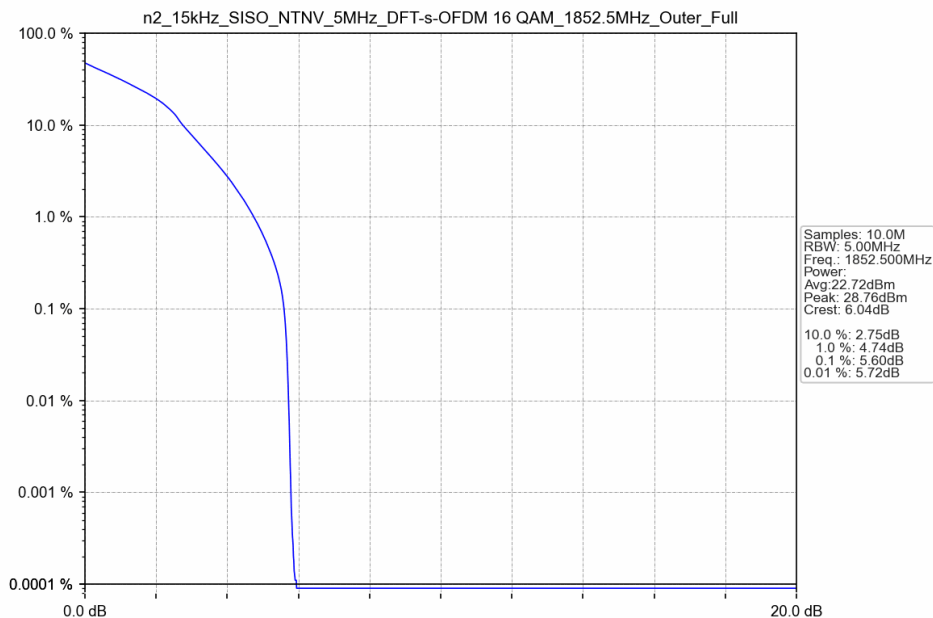


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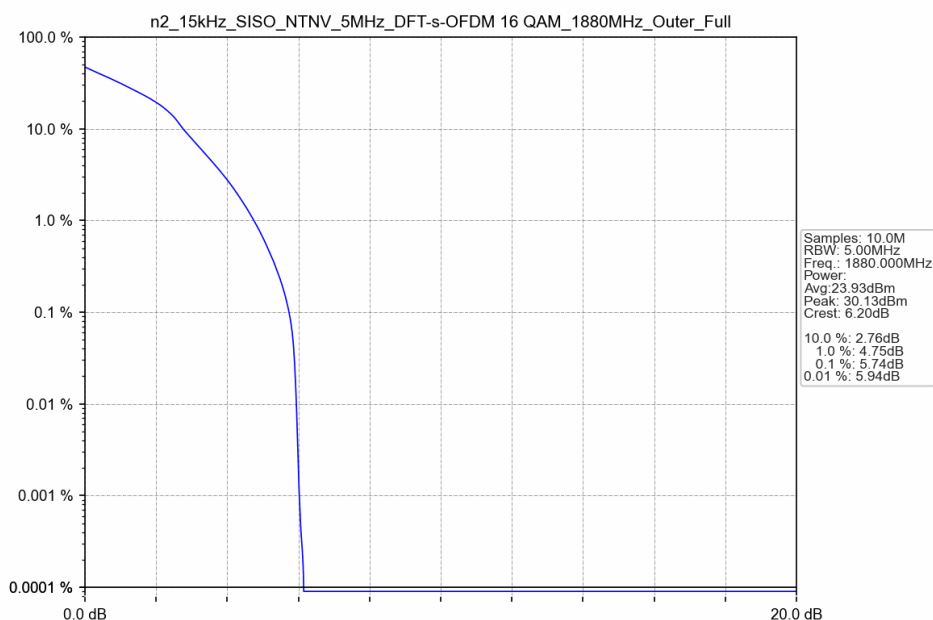
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full

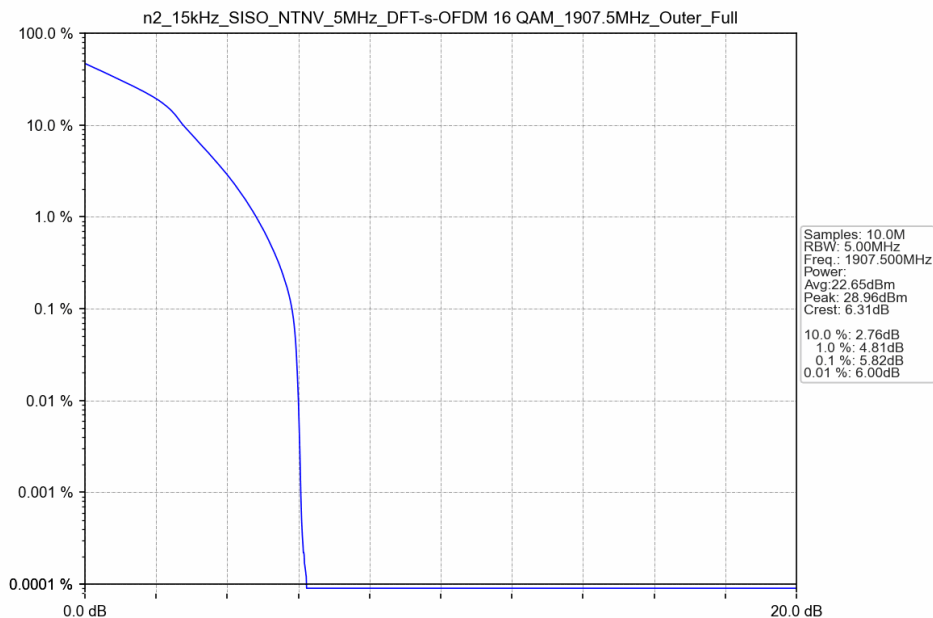


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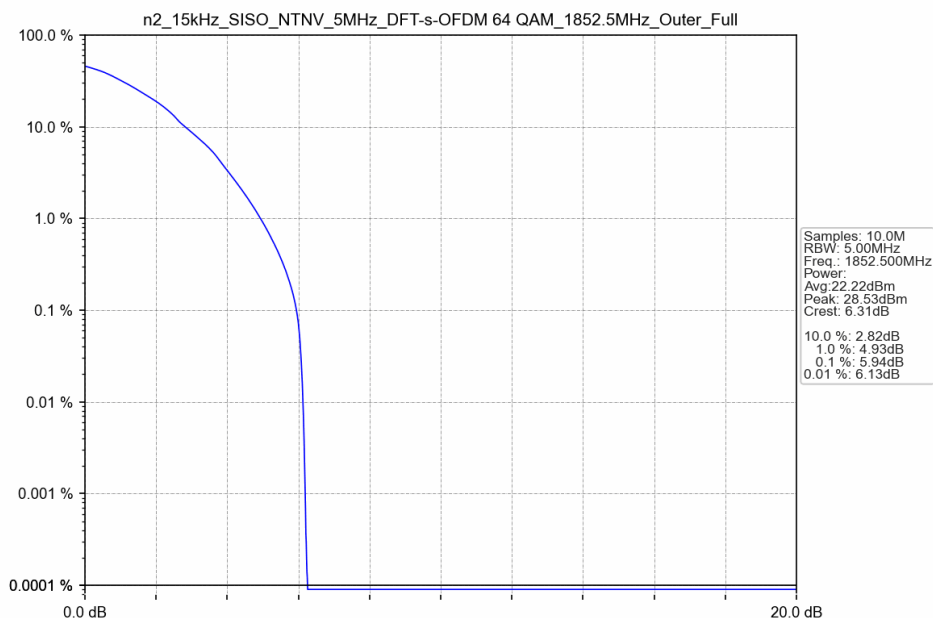
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1852.5MHz_Outer_Full

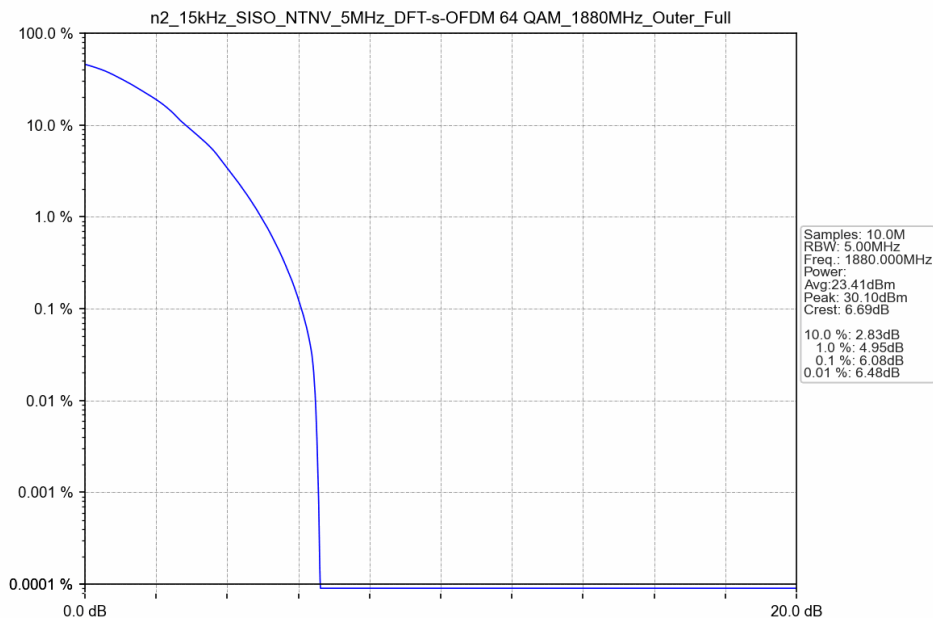


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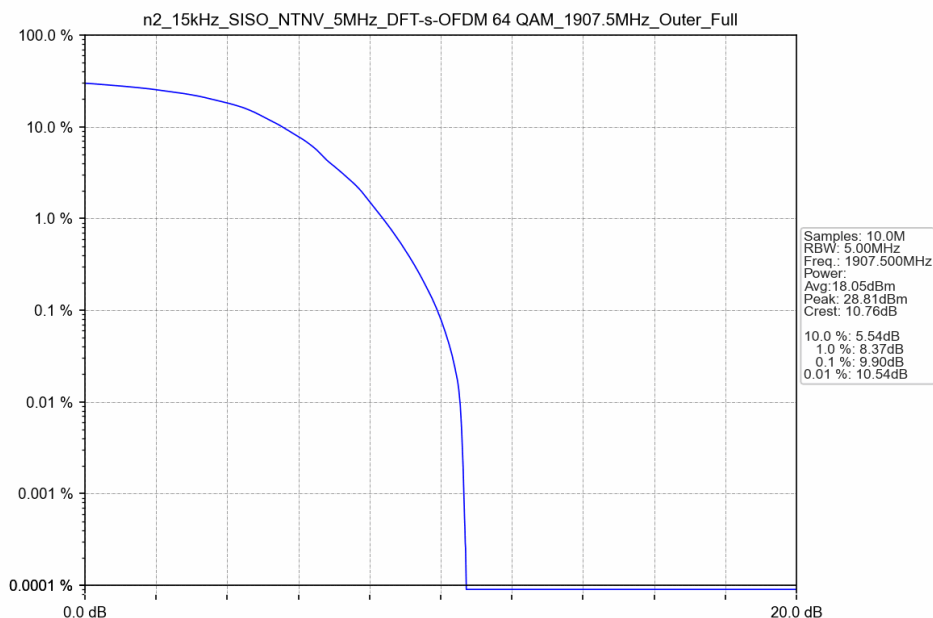
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1907.5MHz_Outer_Full

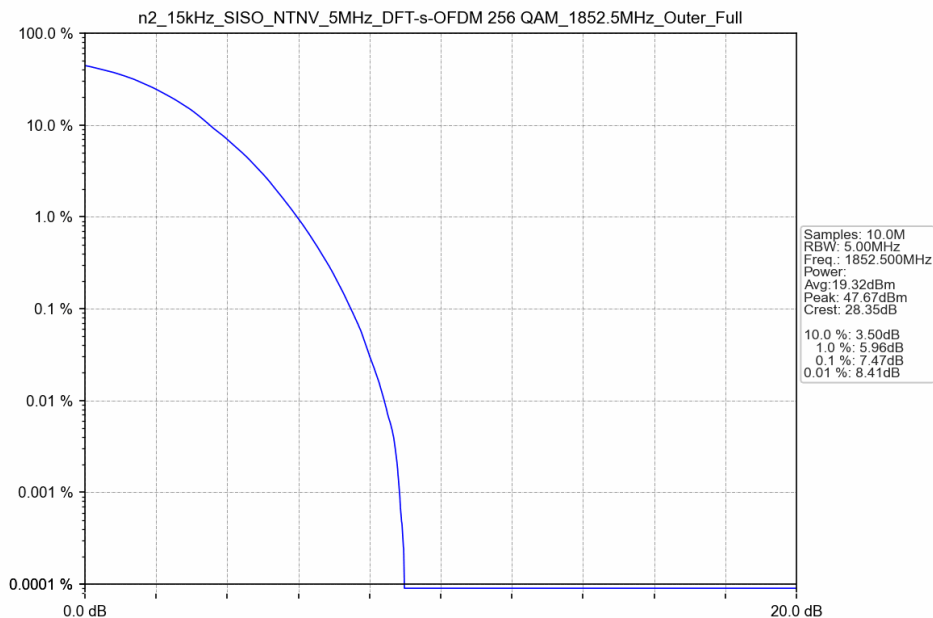


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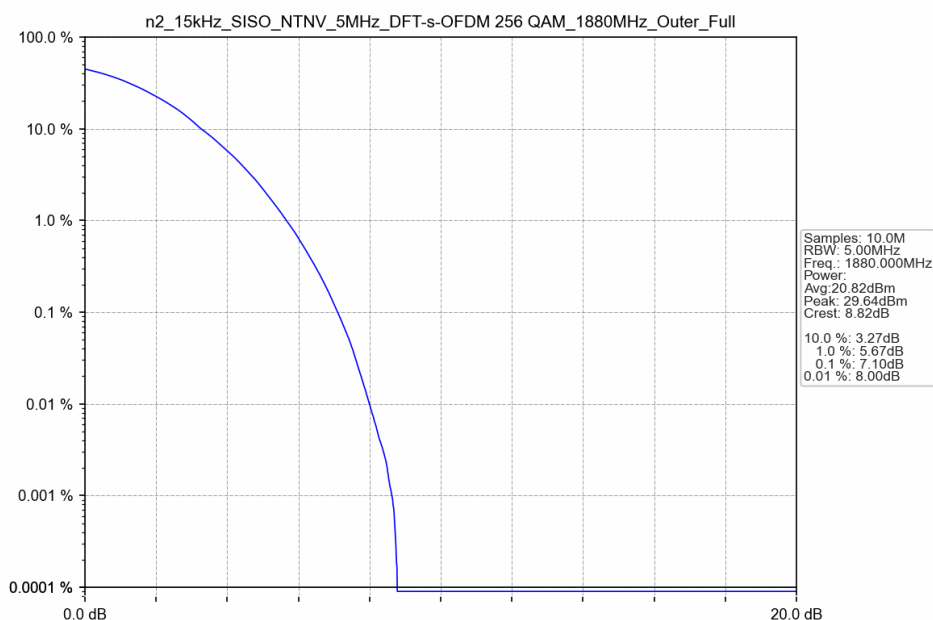
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full

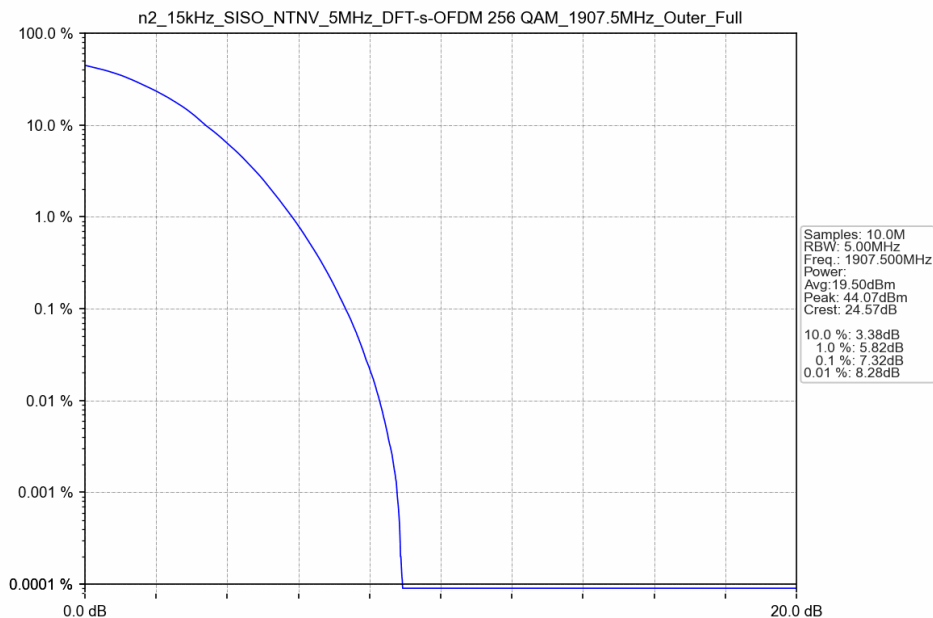


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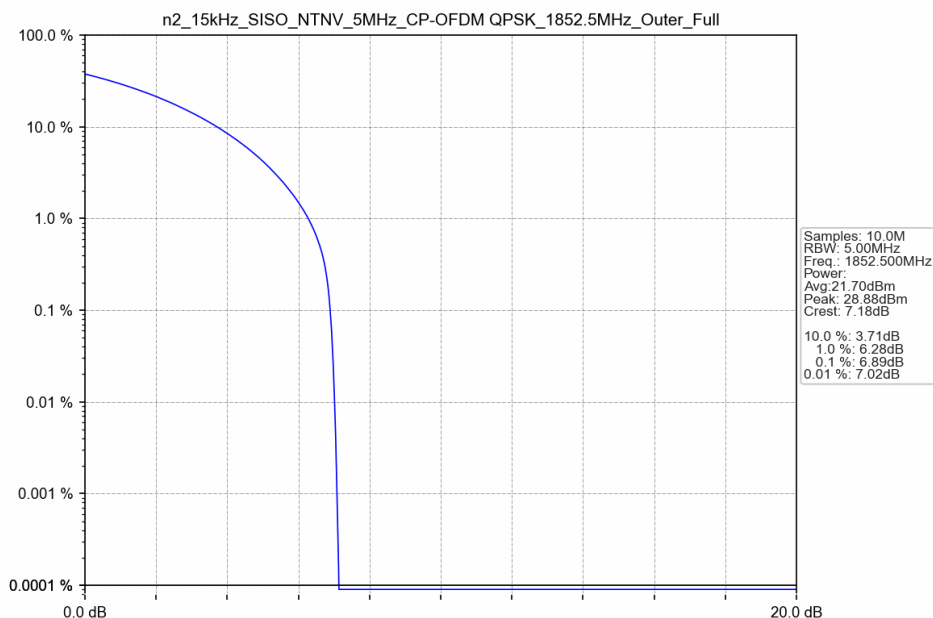
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Outer_Full

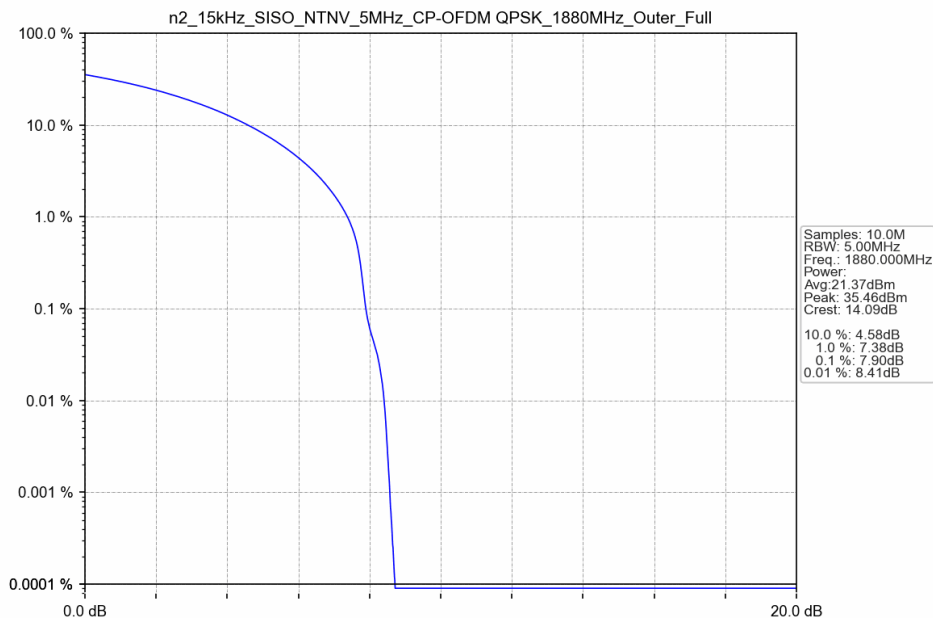


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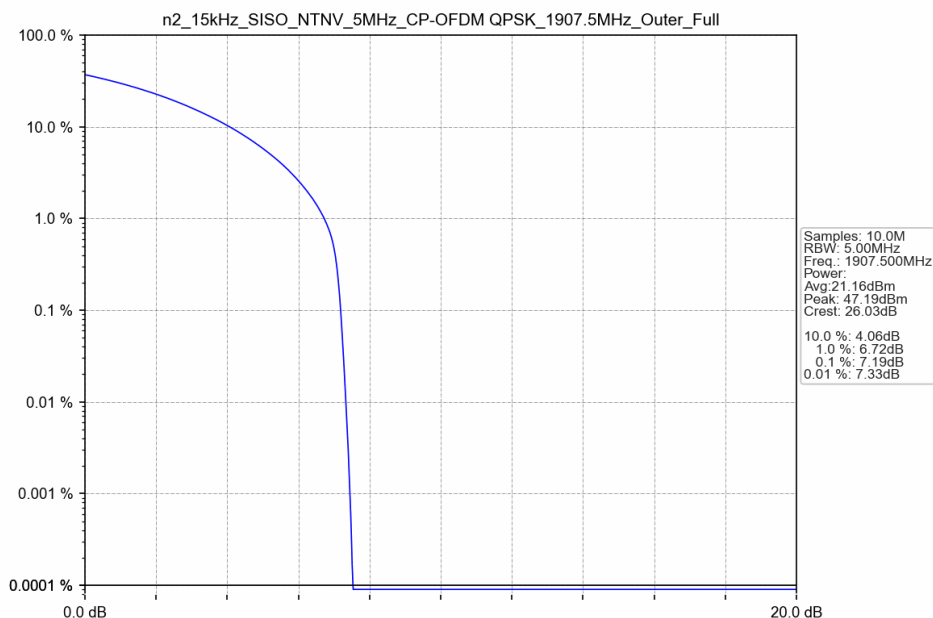
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1907.5MHz_Outer_Full

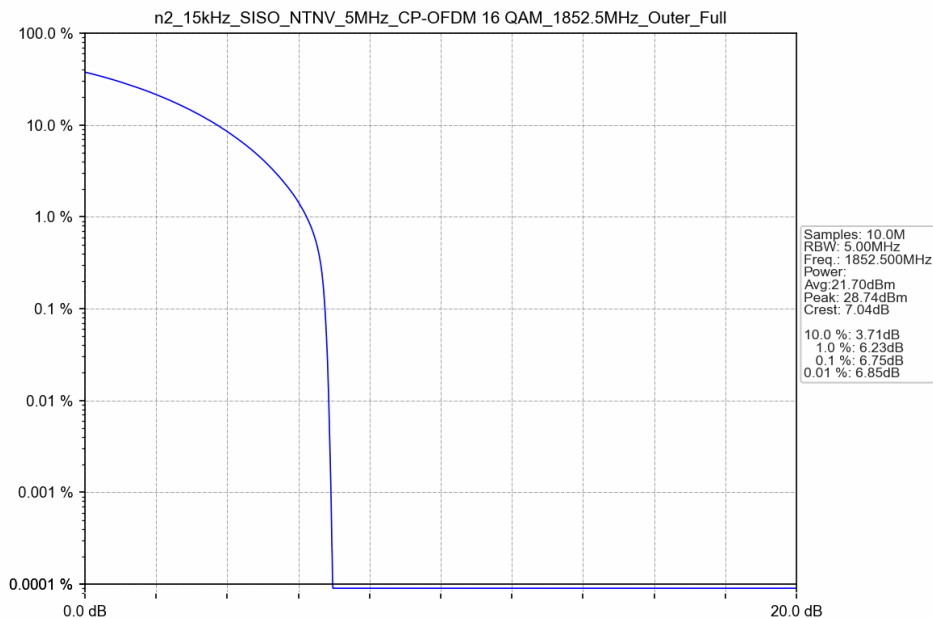


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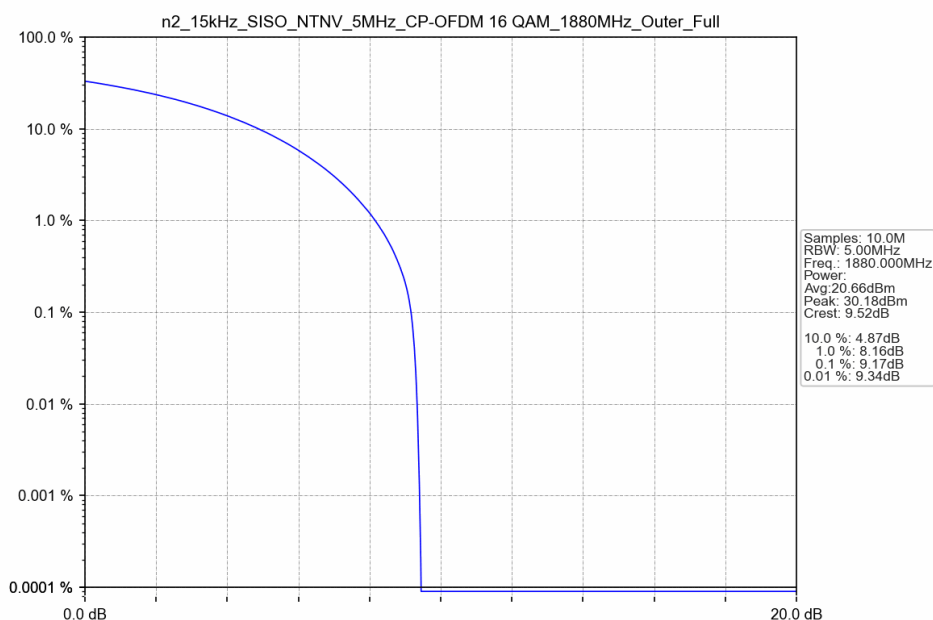
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full

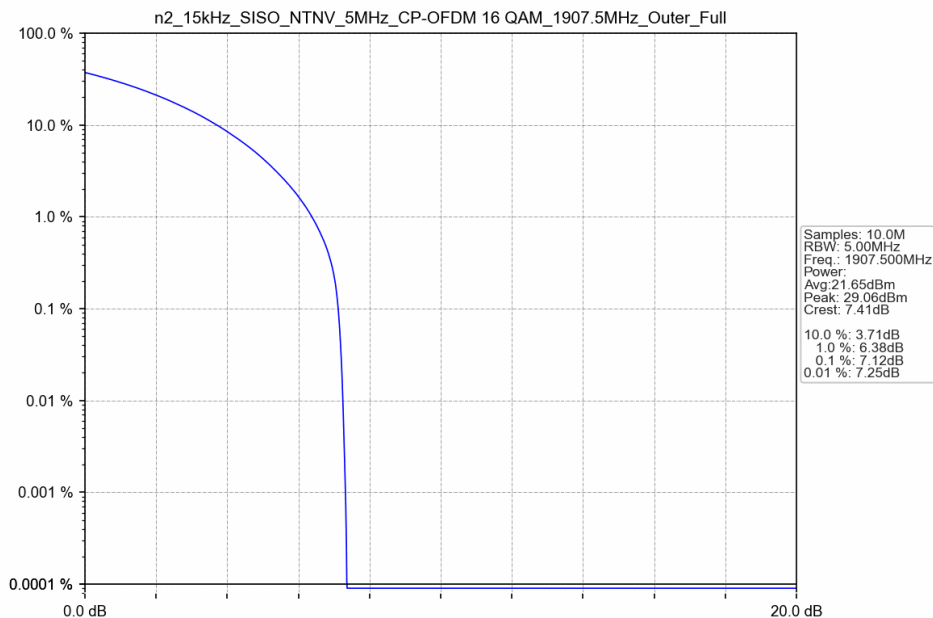


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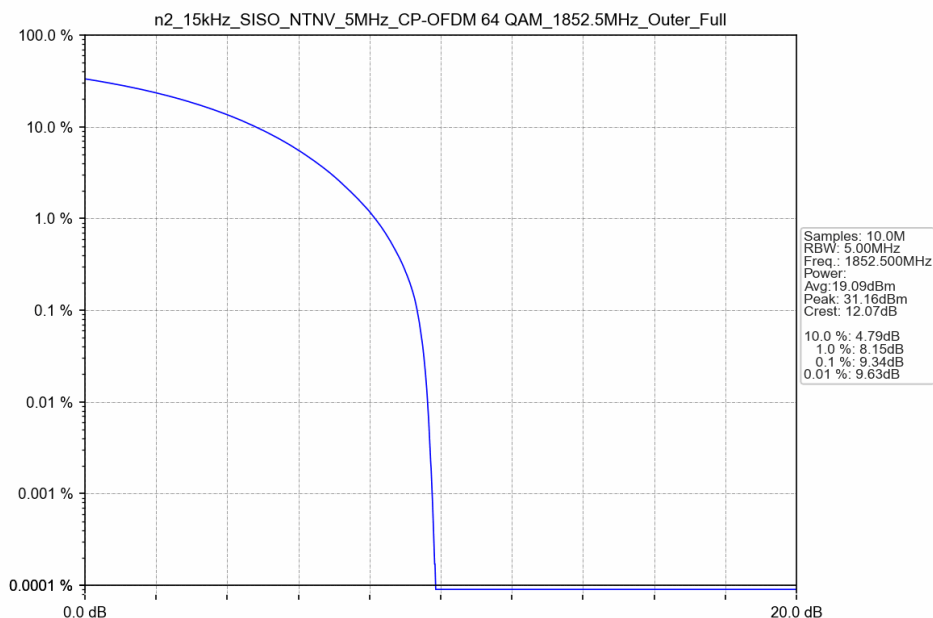
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1852.5MHz_Outer_Full

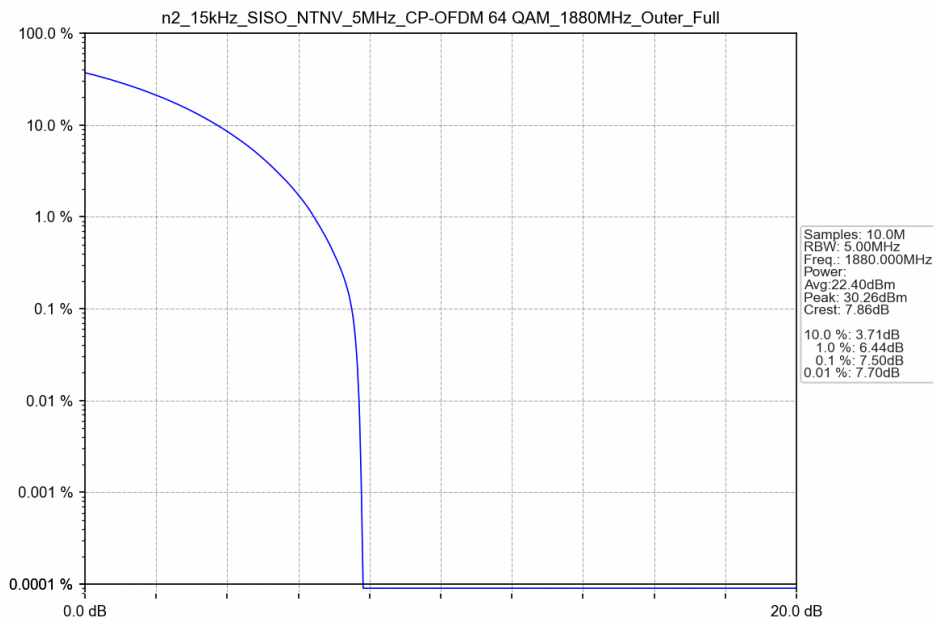


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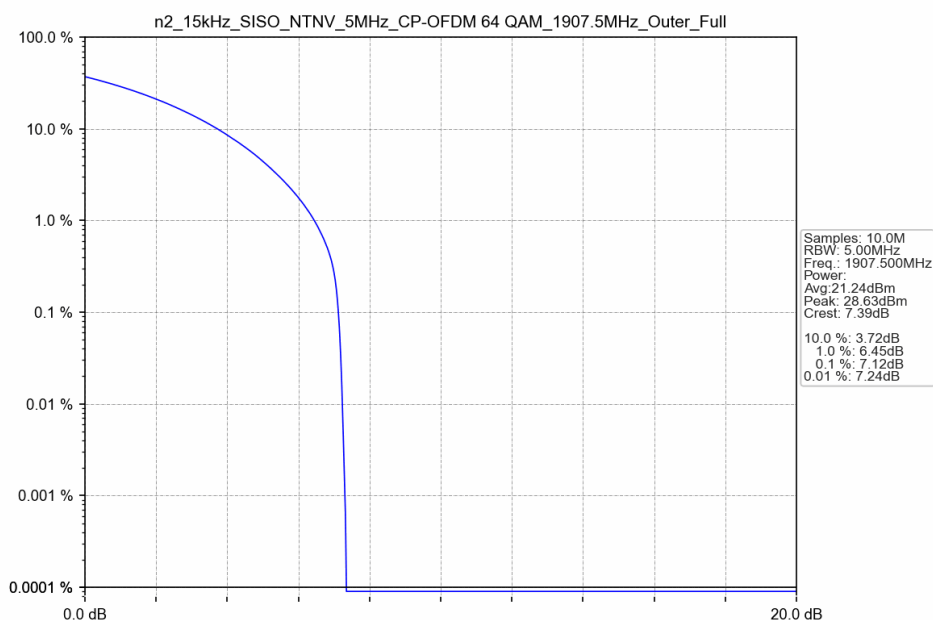
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1907.5MHz_Outer_Full

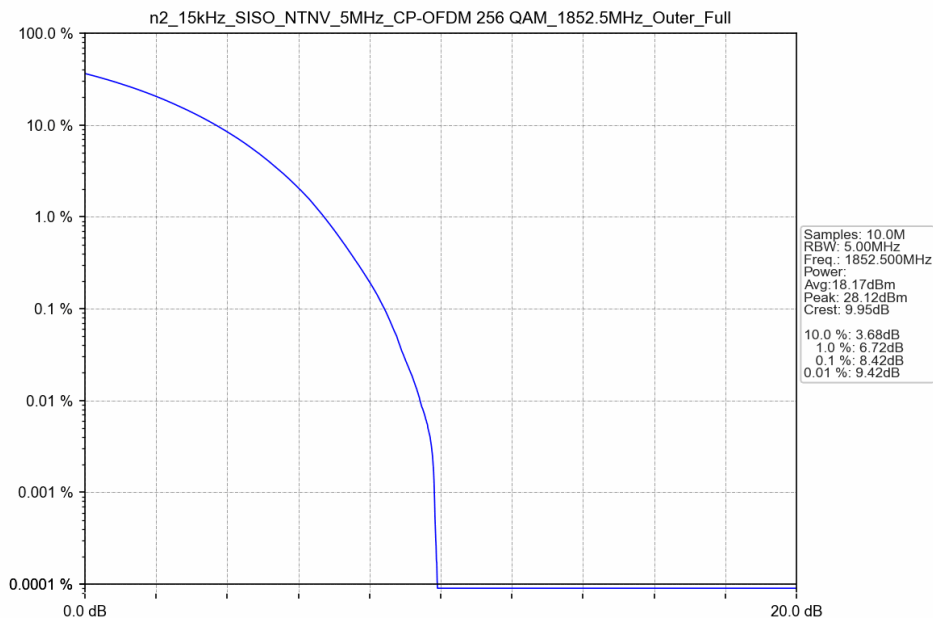


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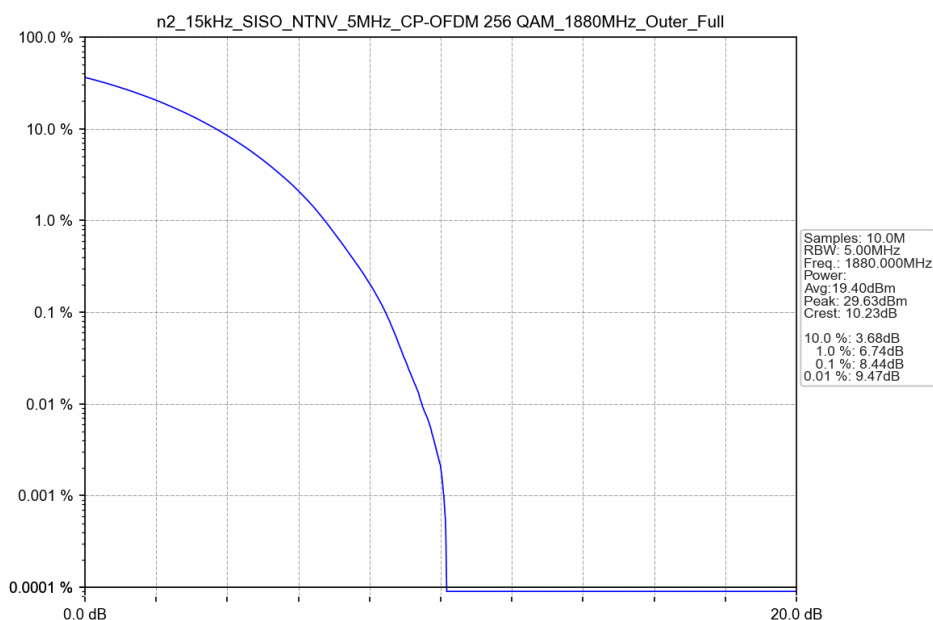
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full

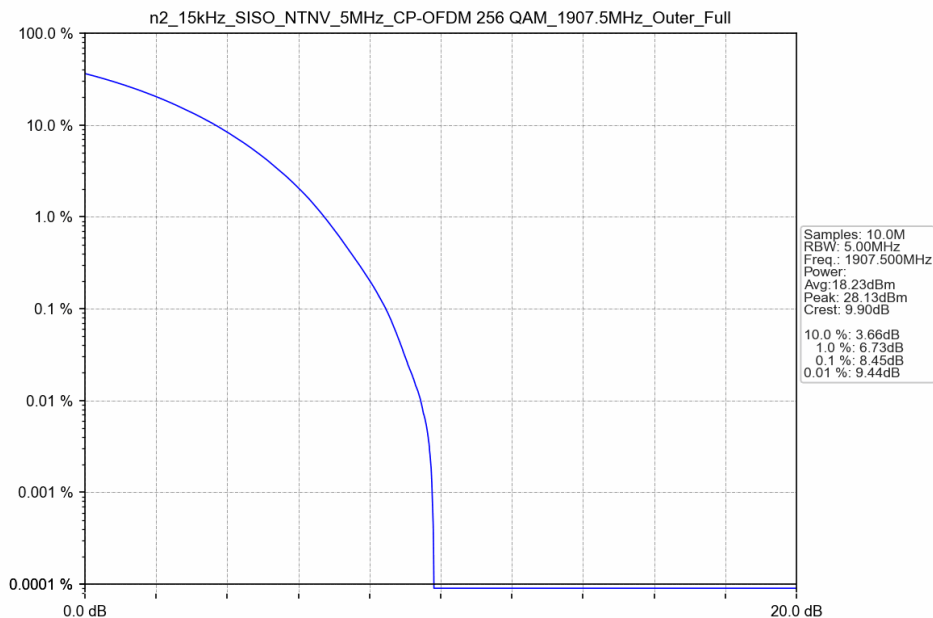


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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1907.5MHz_Outer_Full



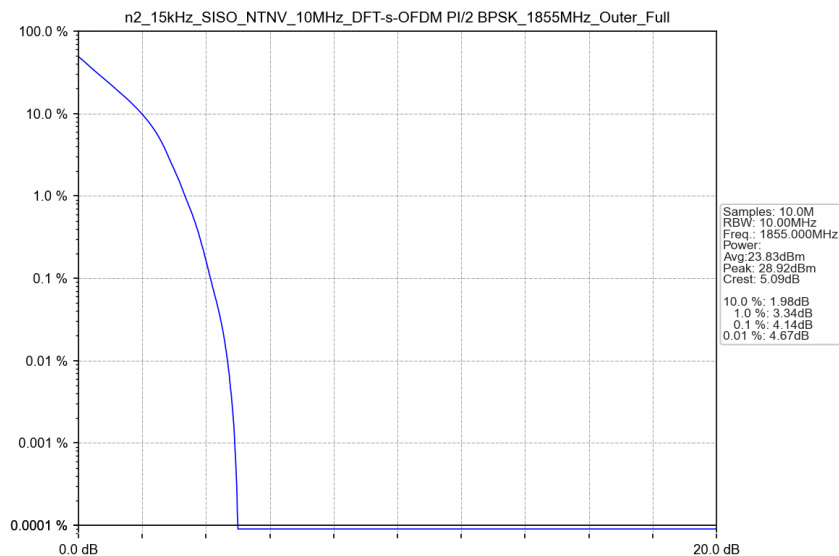
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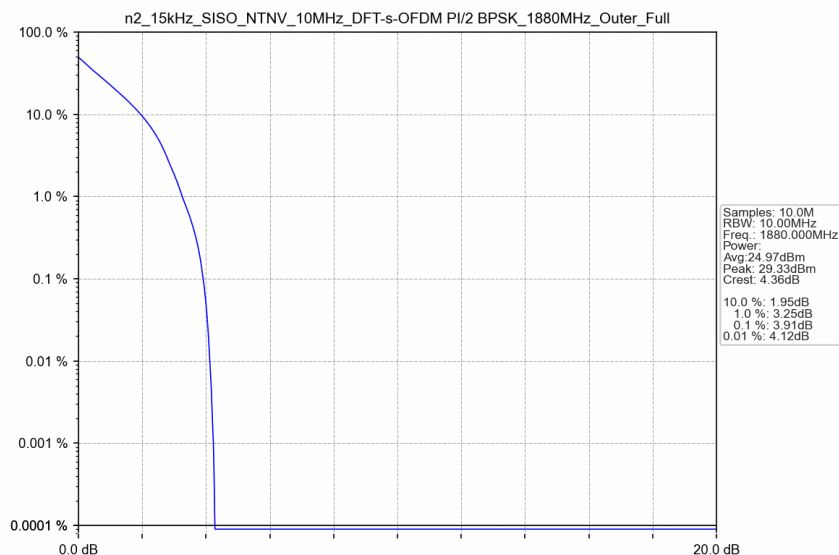
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4.2.2 15k_SISO_10MHz_NTNV

n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full

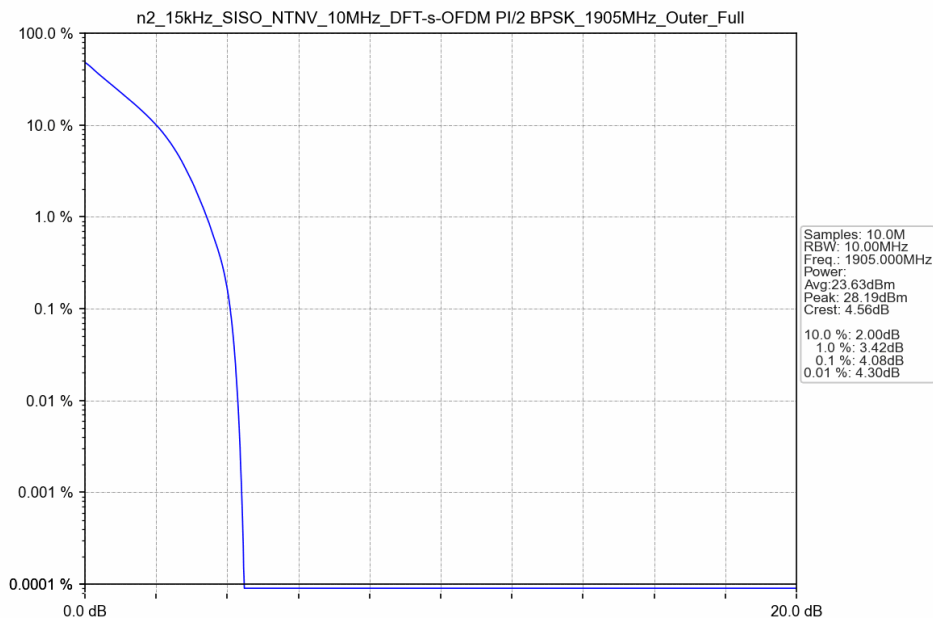


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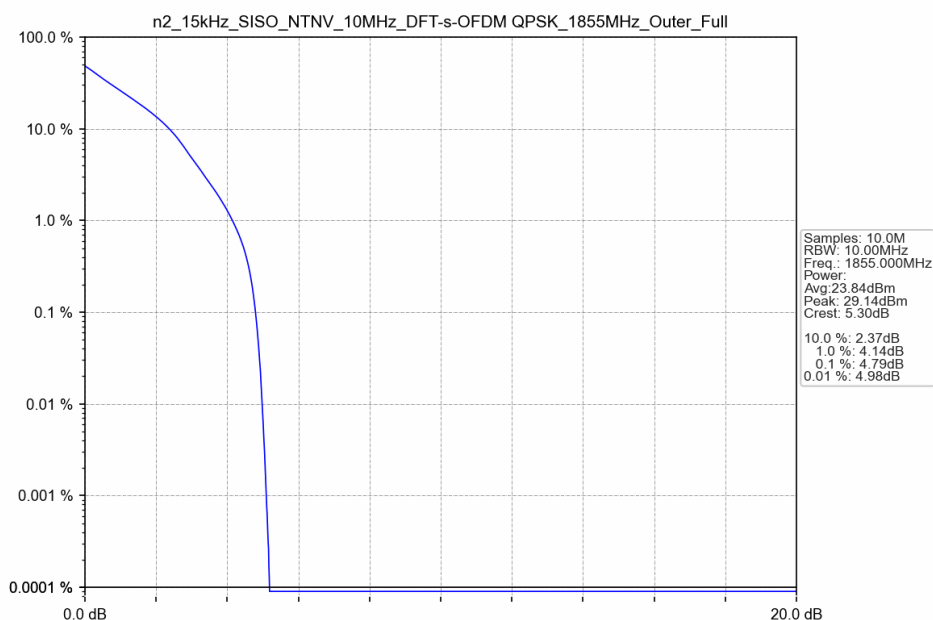
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full

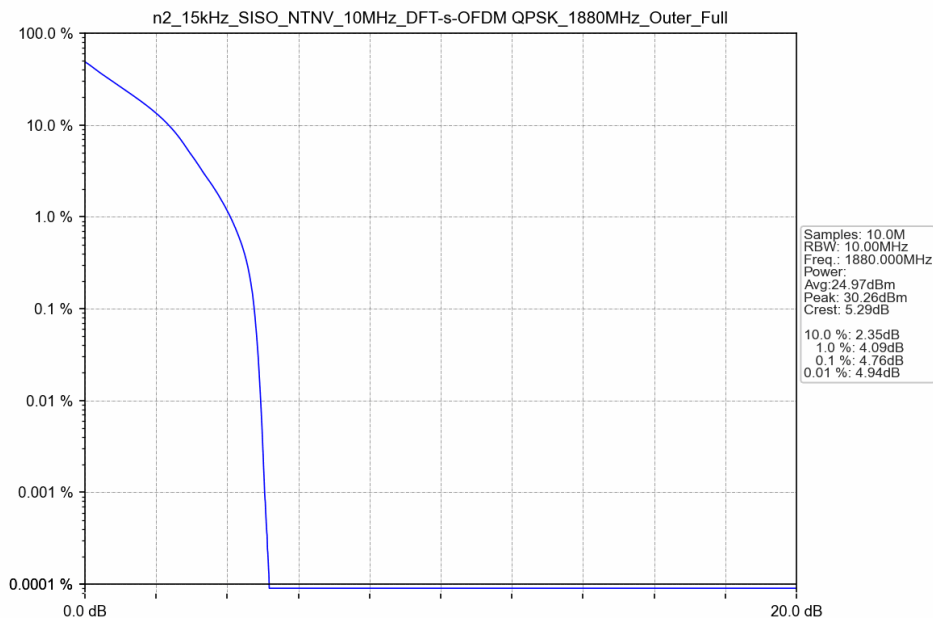


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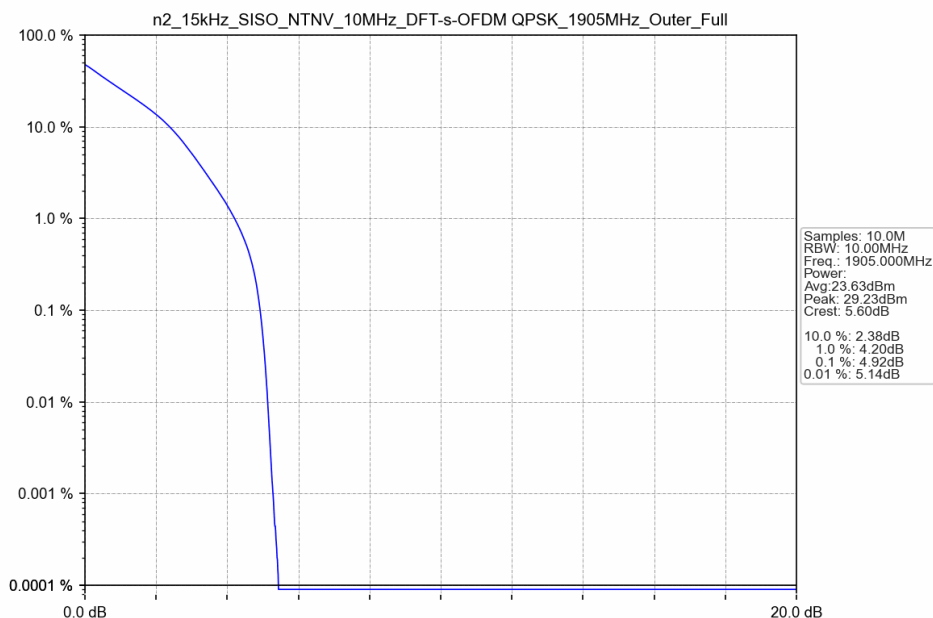
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Outer_Full

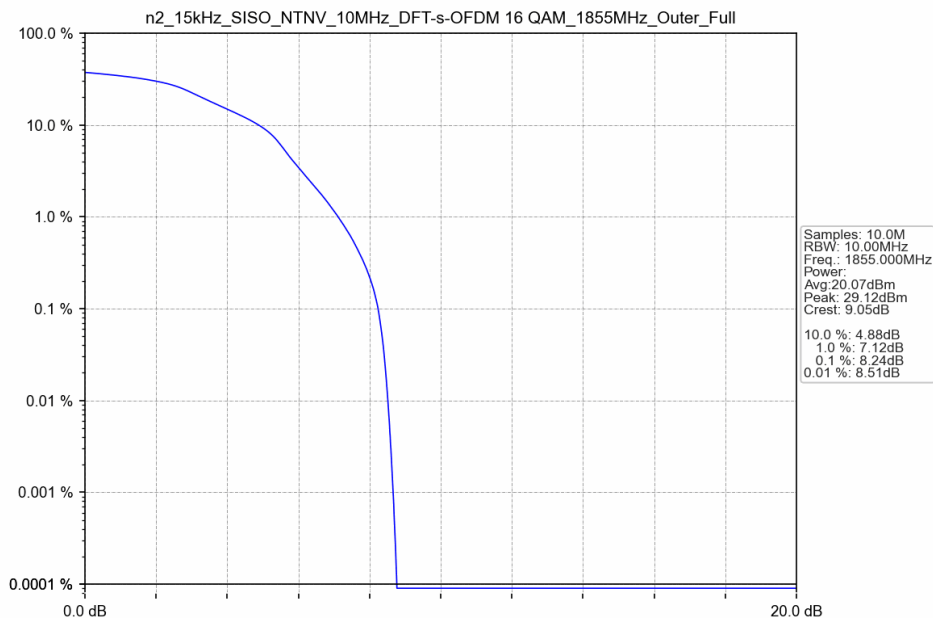


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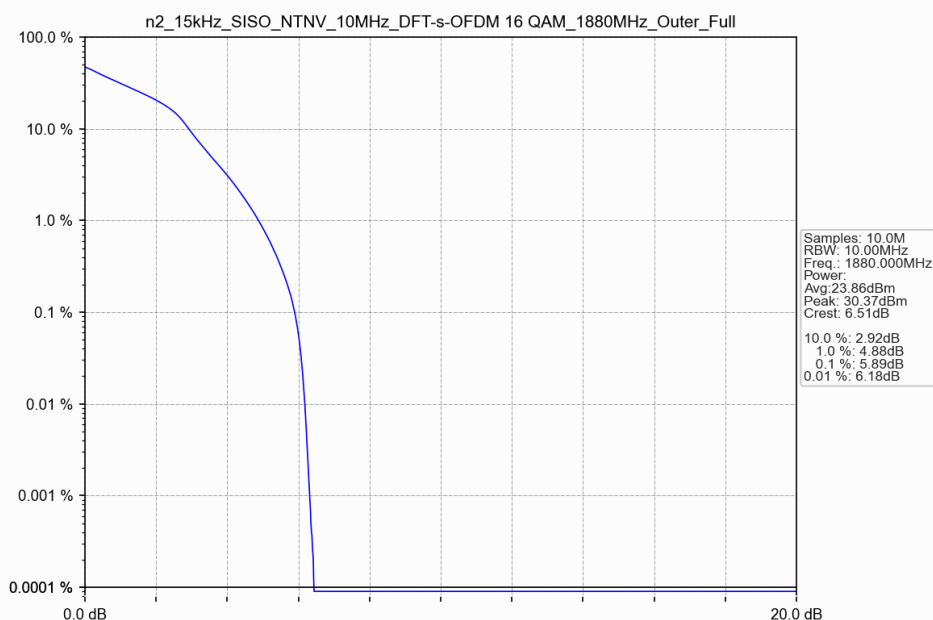
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full

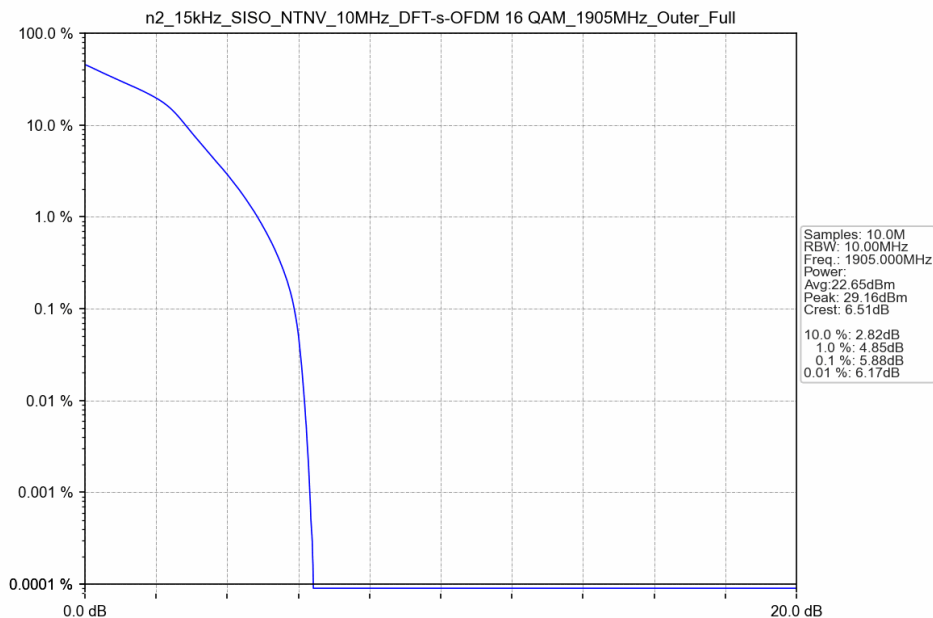


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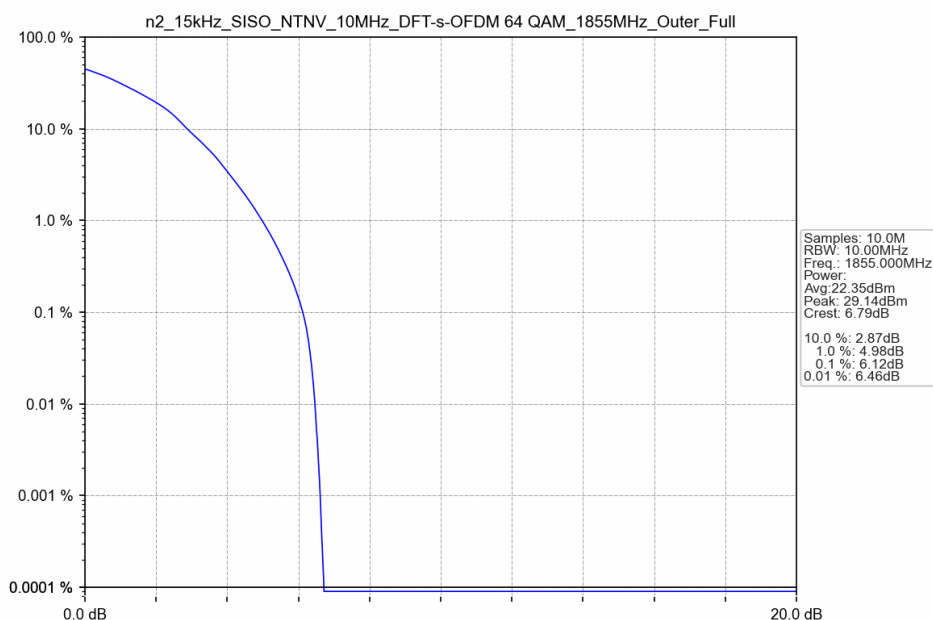
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full

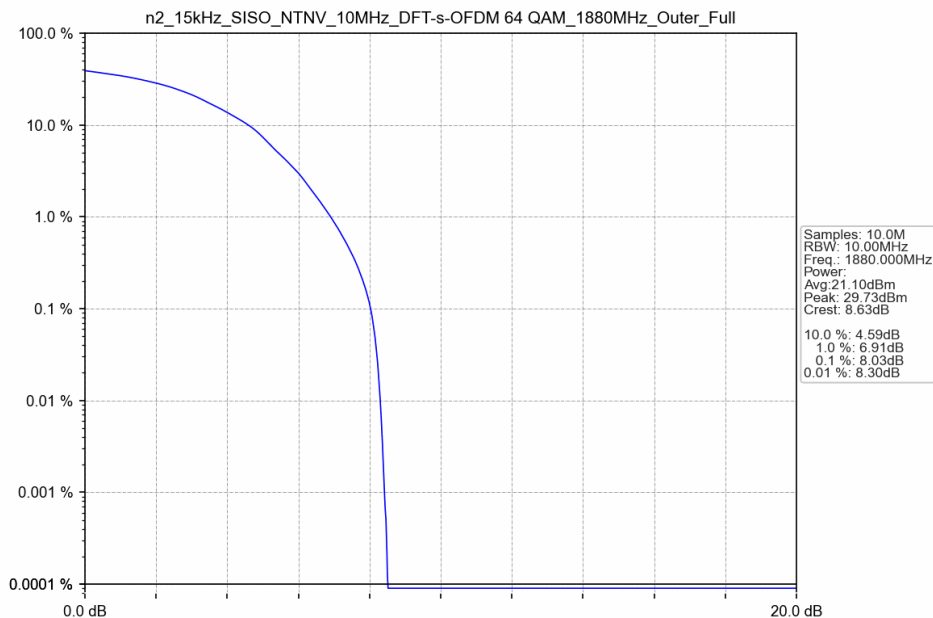


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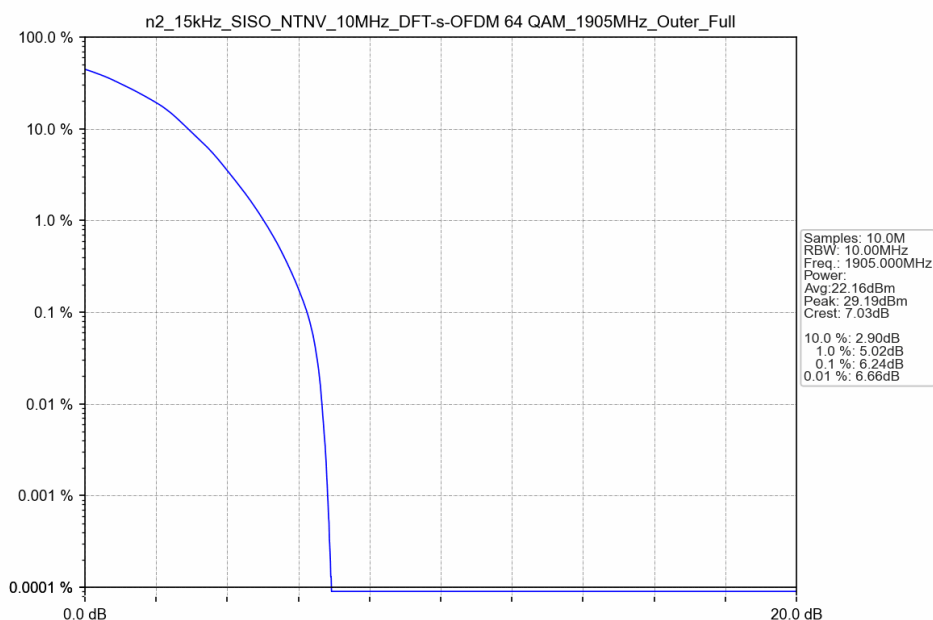
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1905MHz_Outer_Full

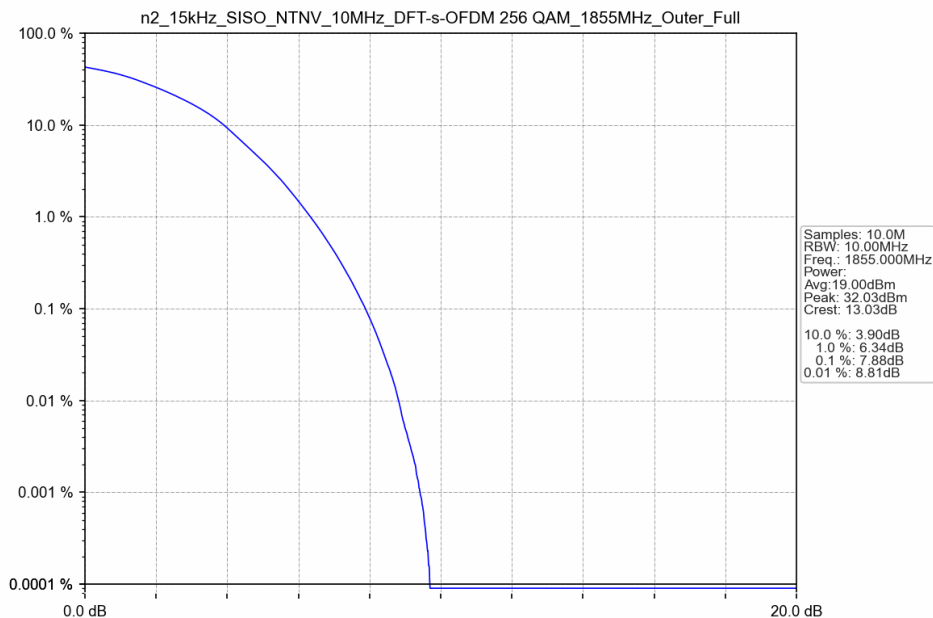


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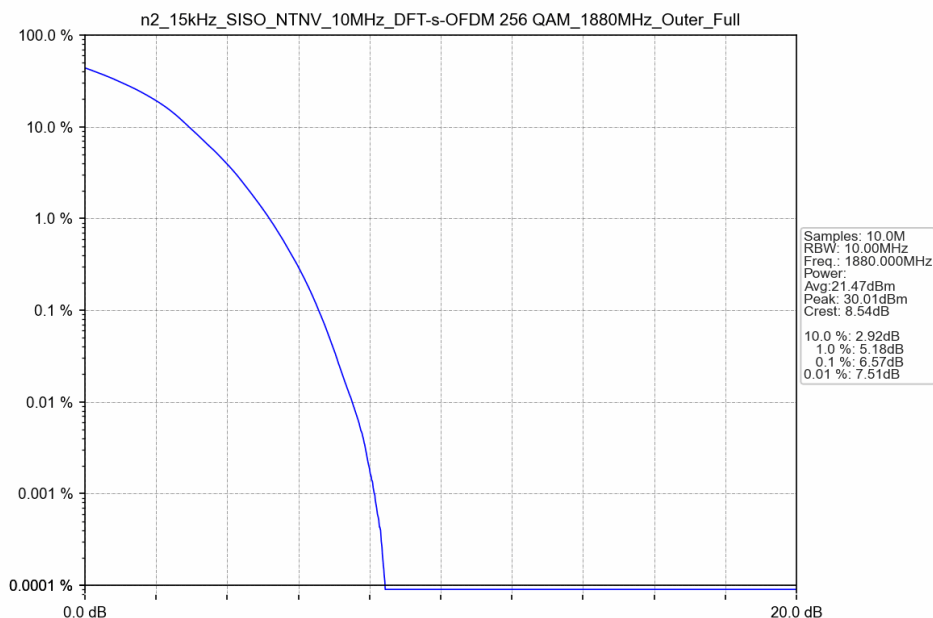
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full

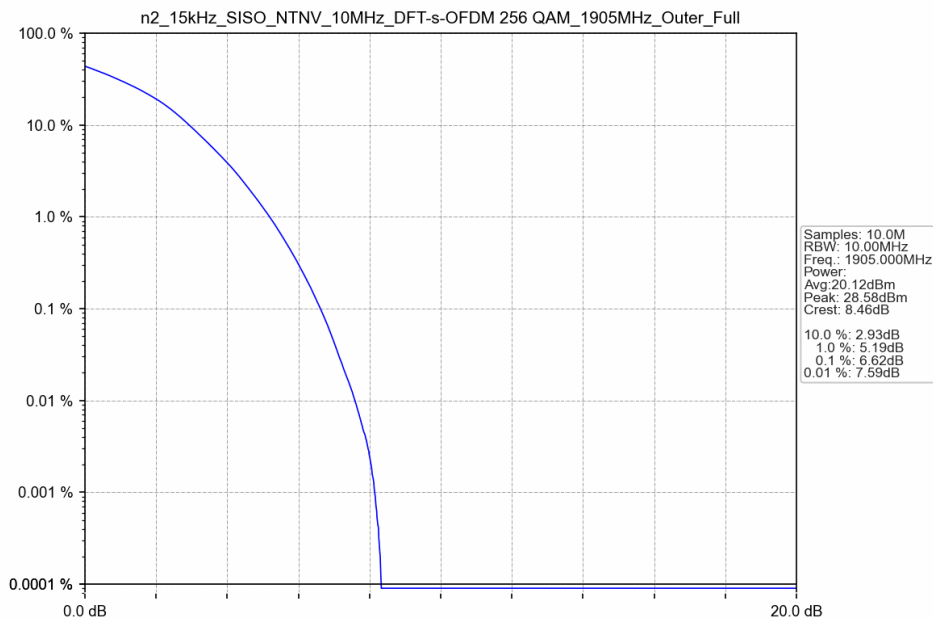


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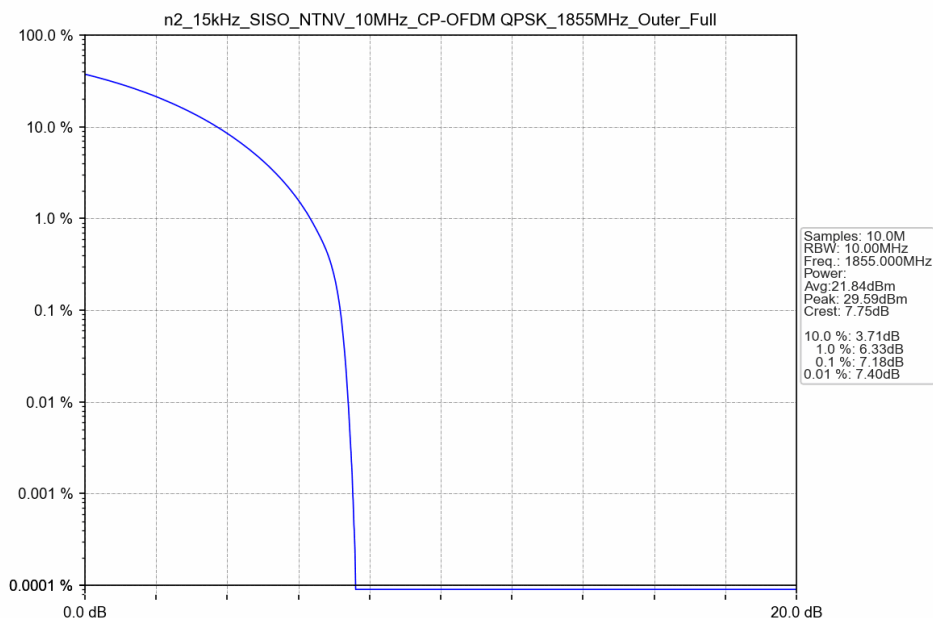
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full

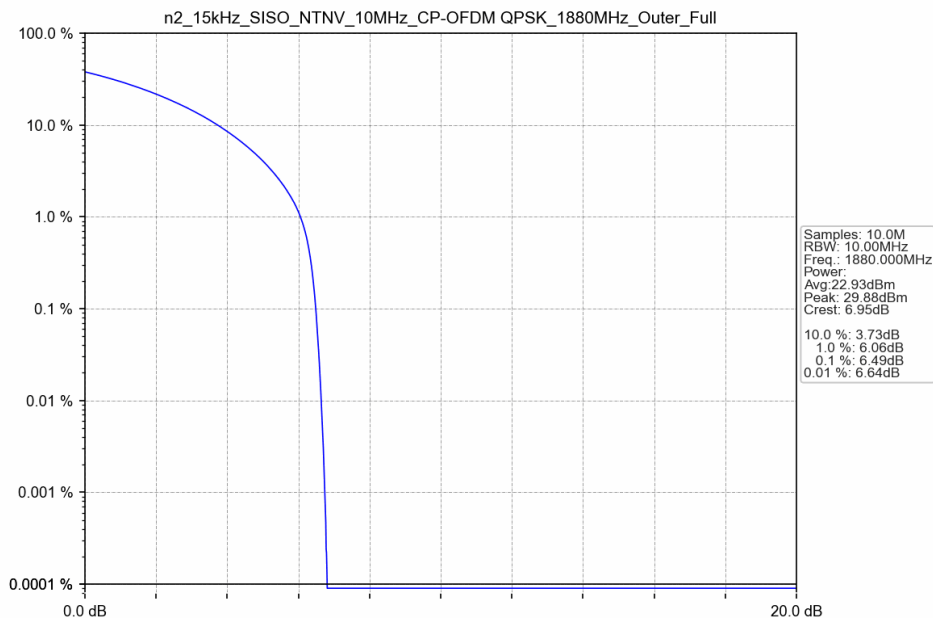


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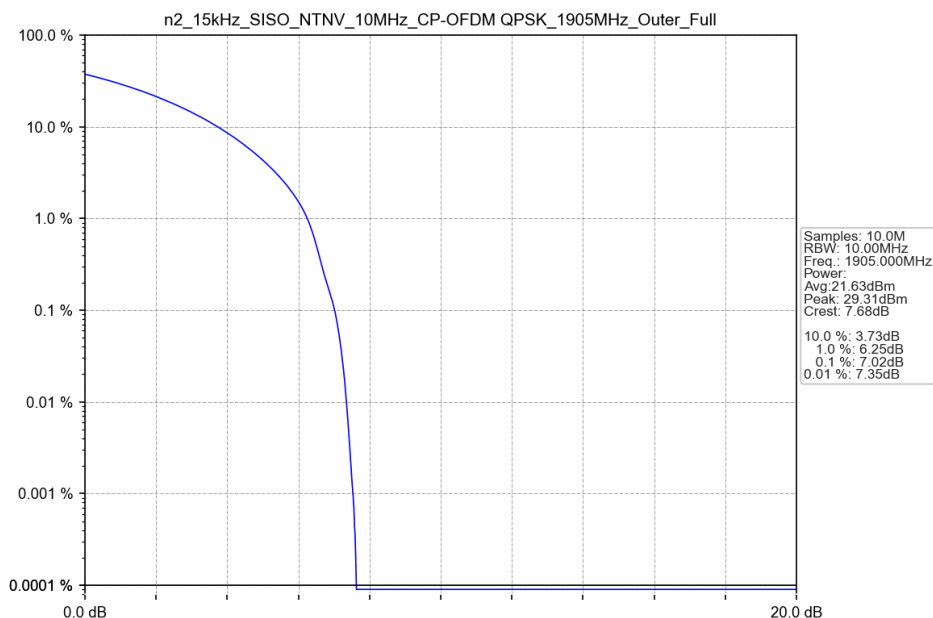
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full

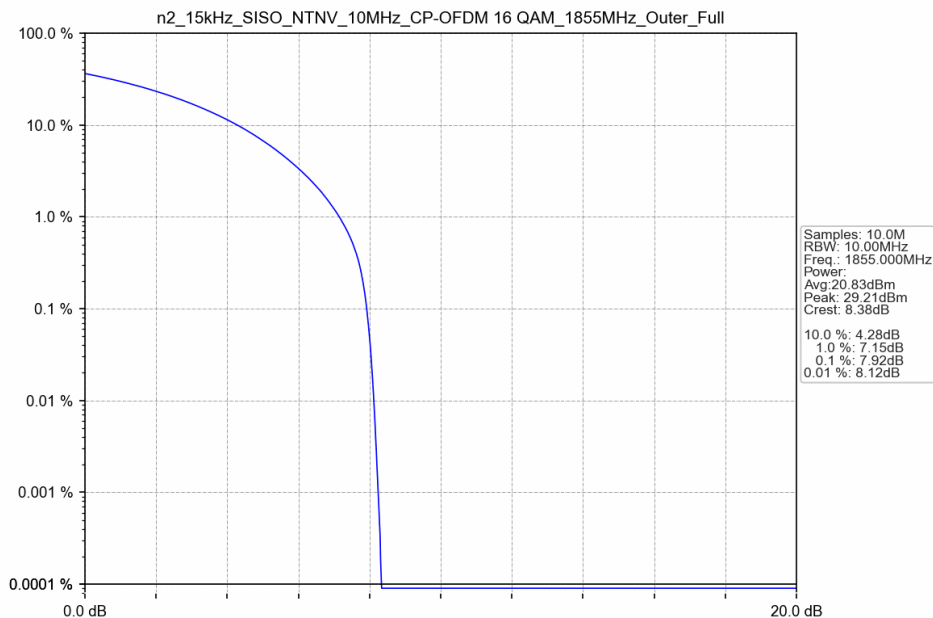


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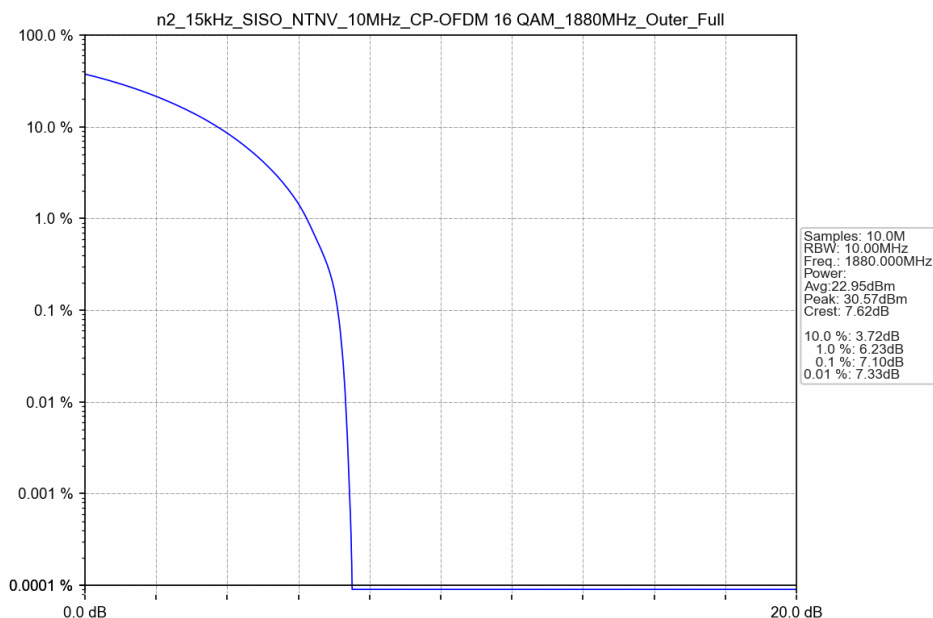
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full

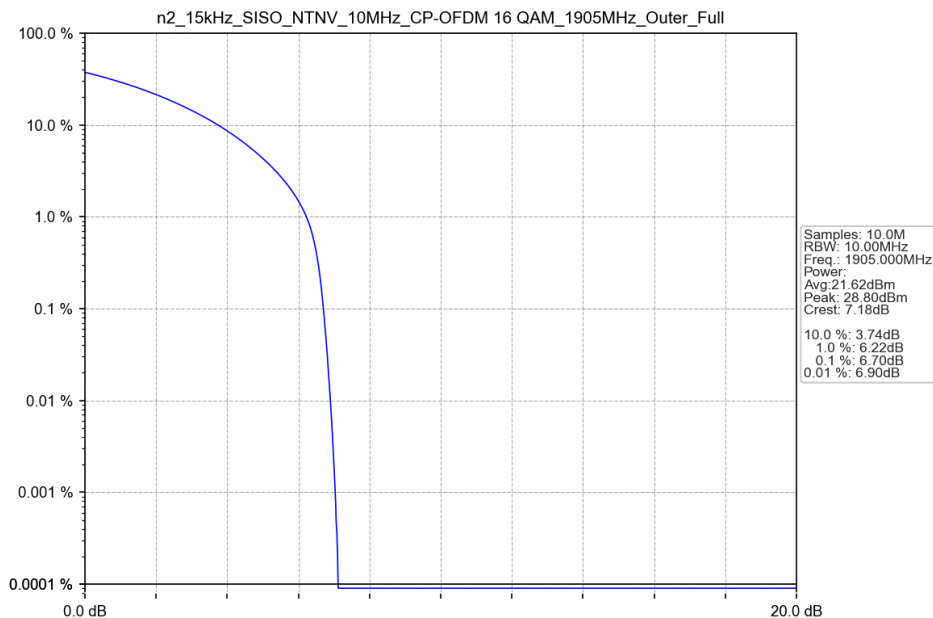


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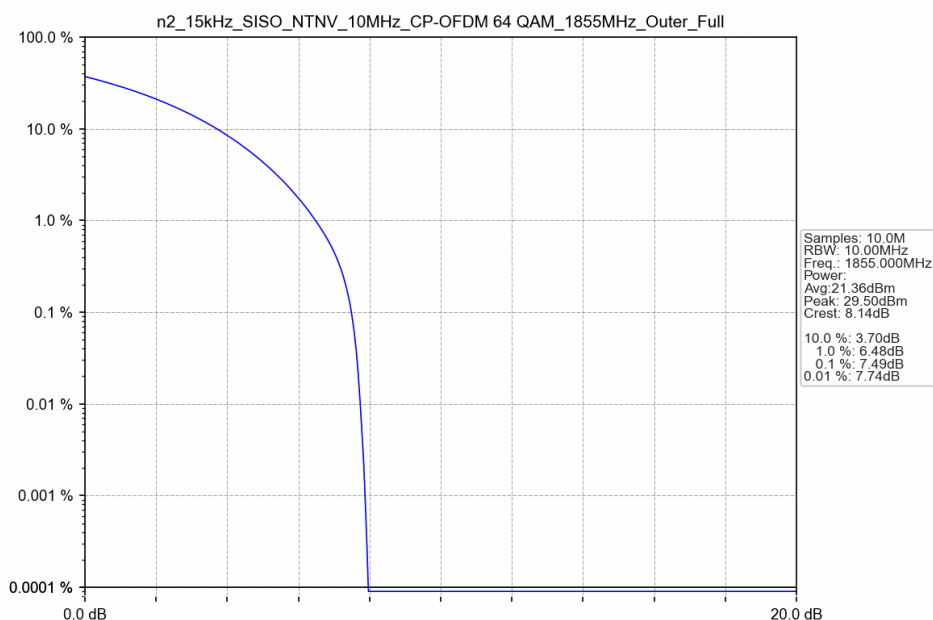
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full

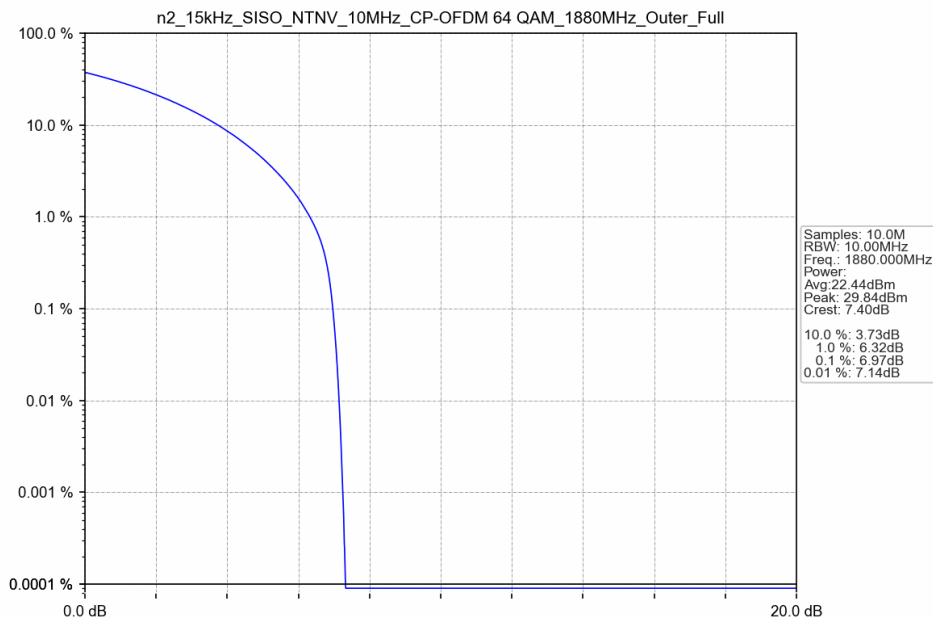


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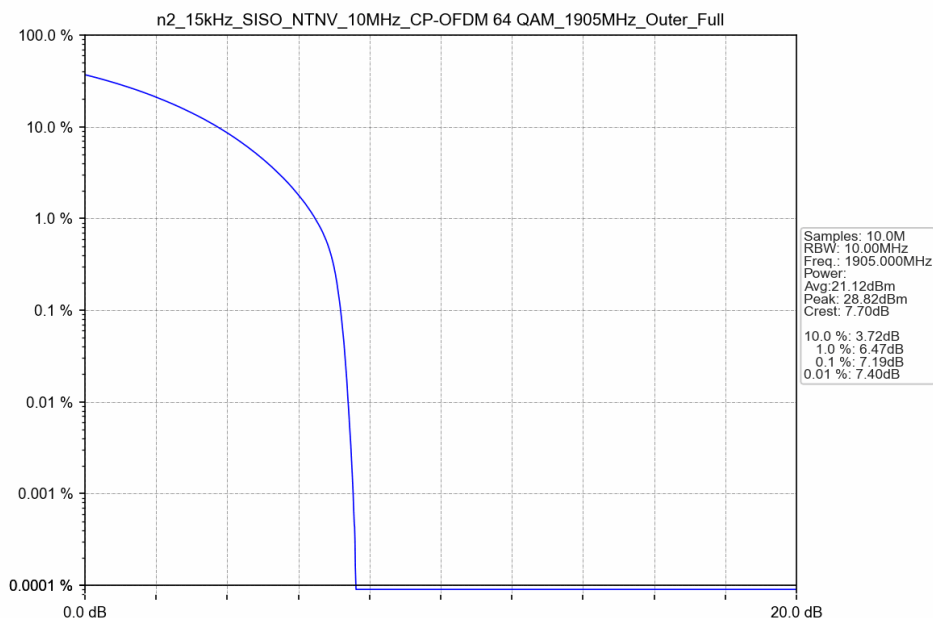
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1905MHz_Outer_Full

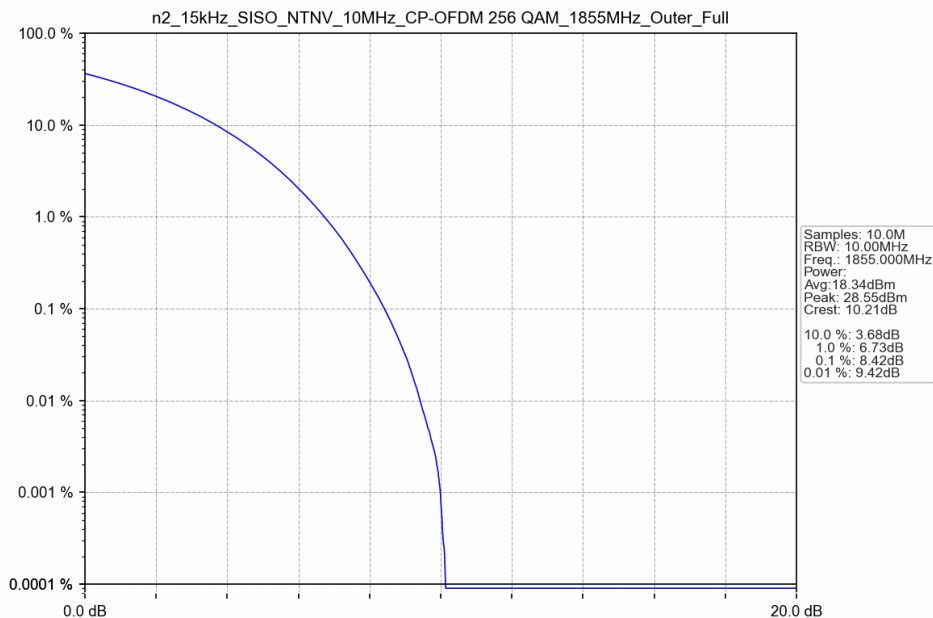


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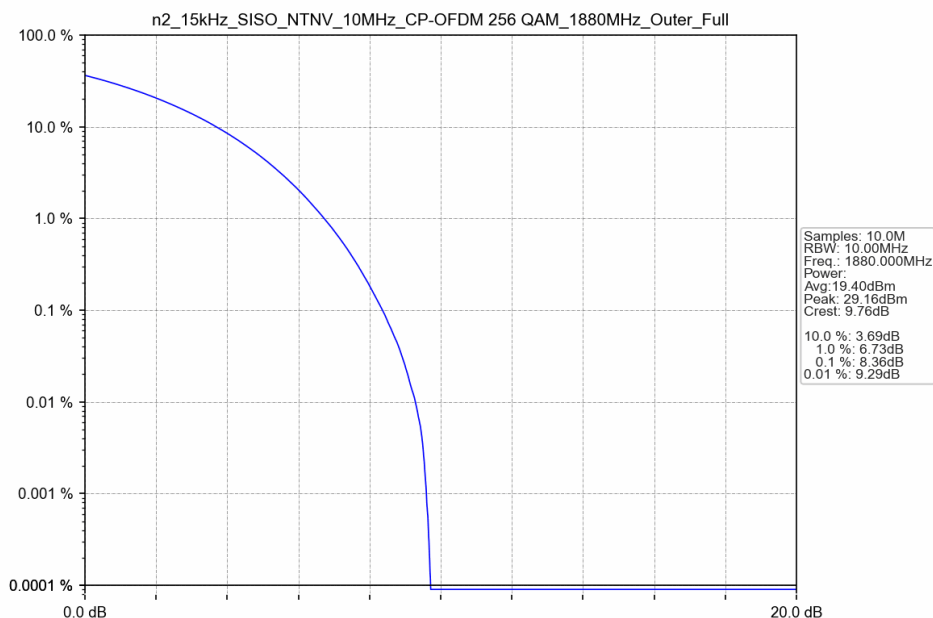
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full

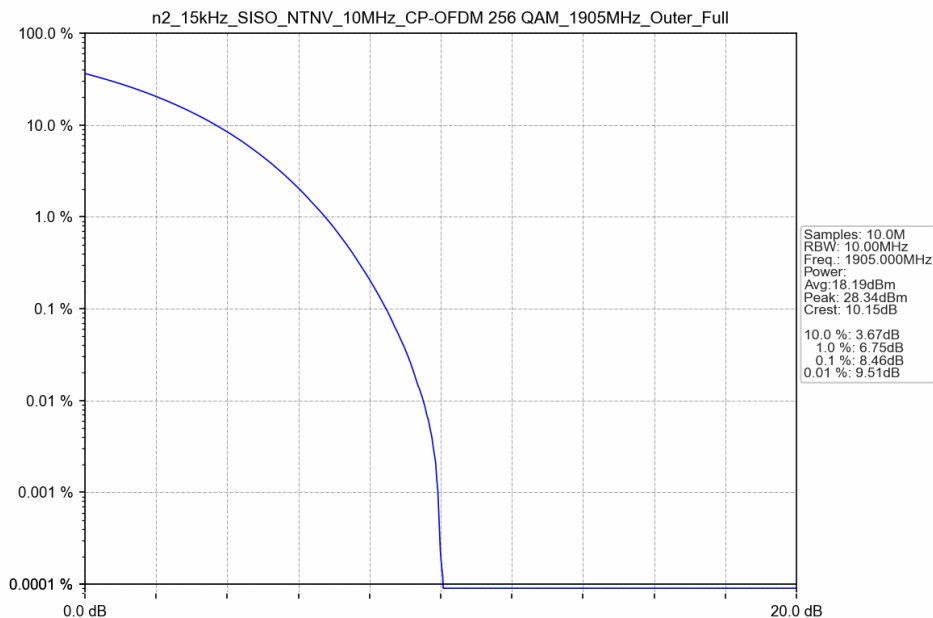


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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1905MHz_Outer_Full



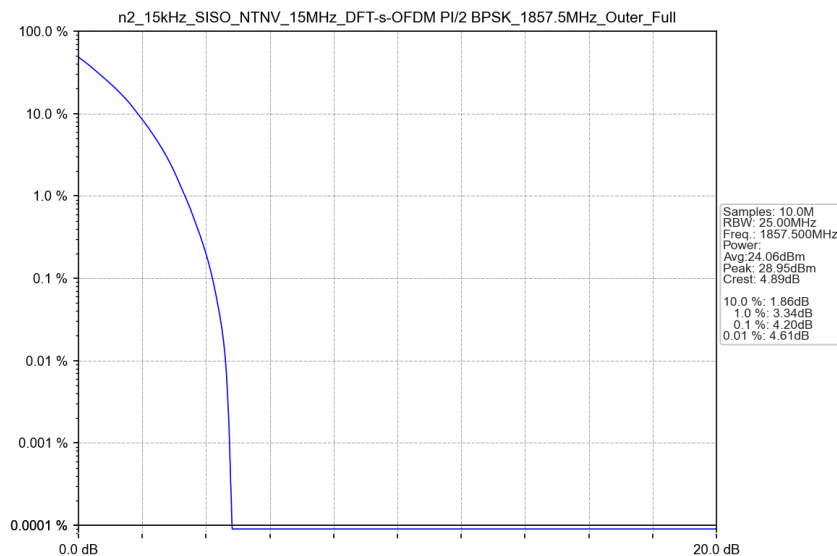
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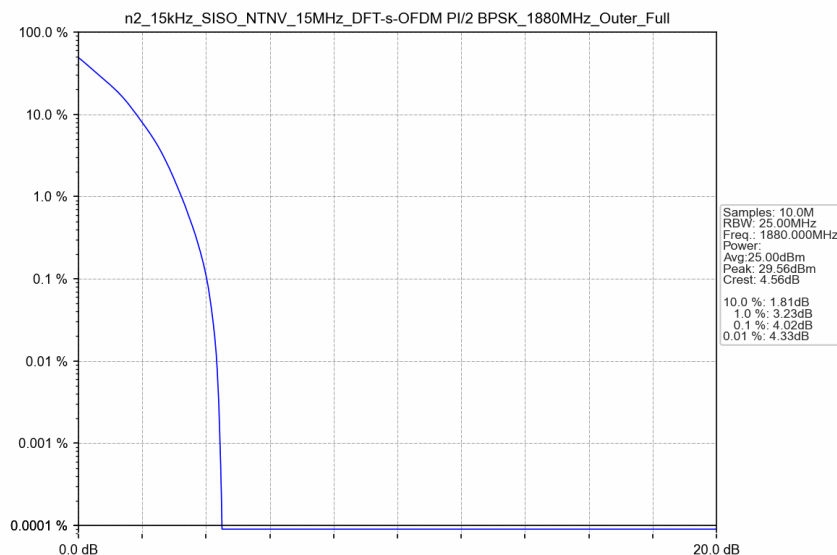
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4.2.3 15k_SISO_15MHz_NTNV

n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full

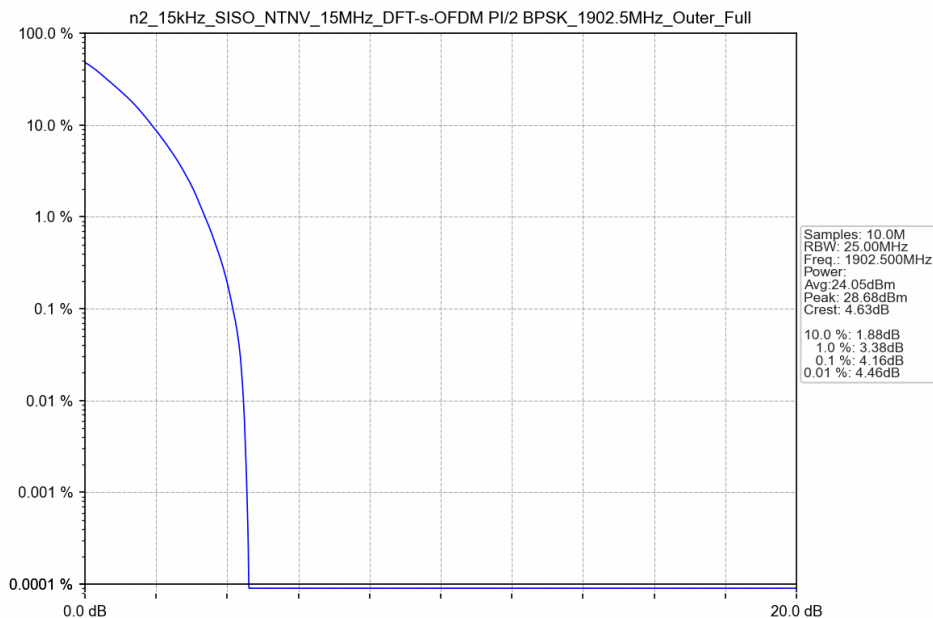


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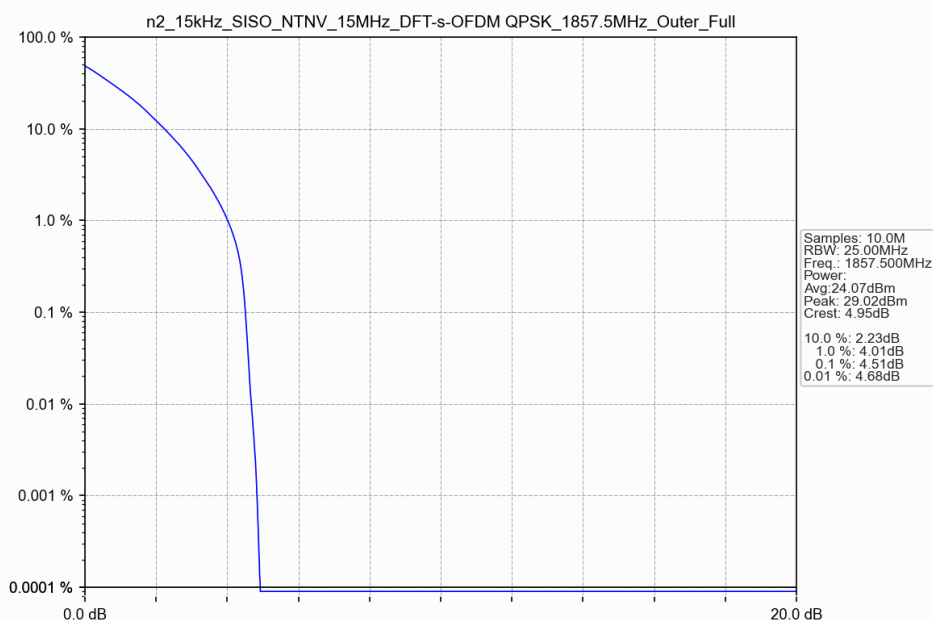
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full

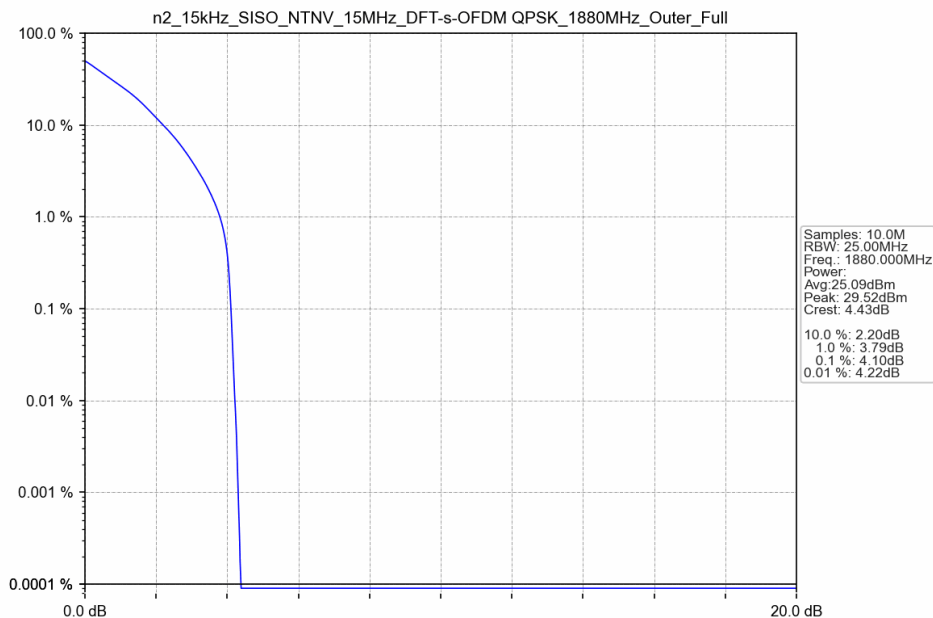


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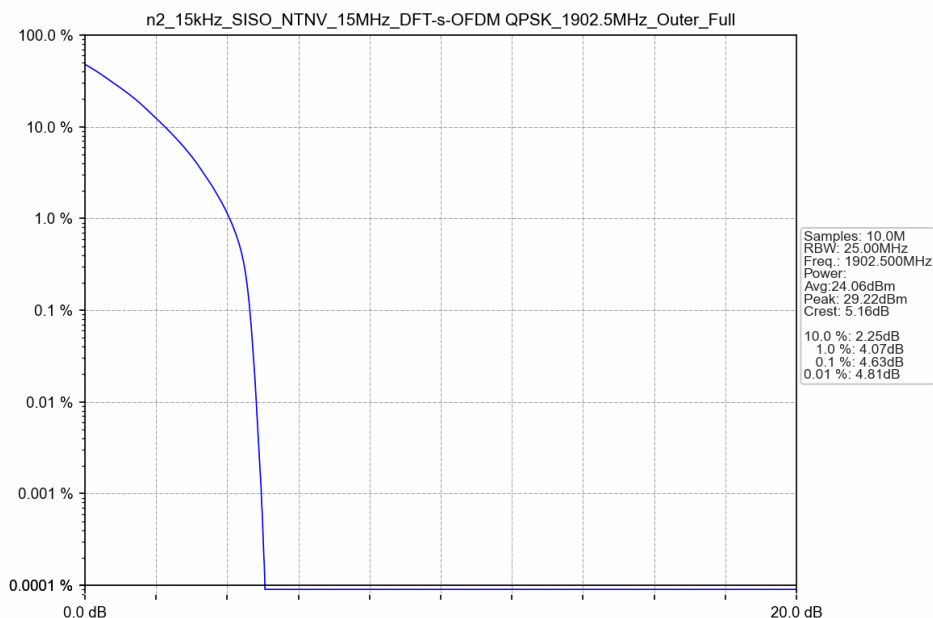
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Outer_Full

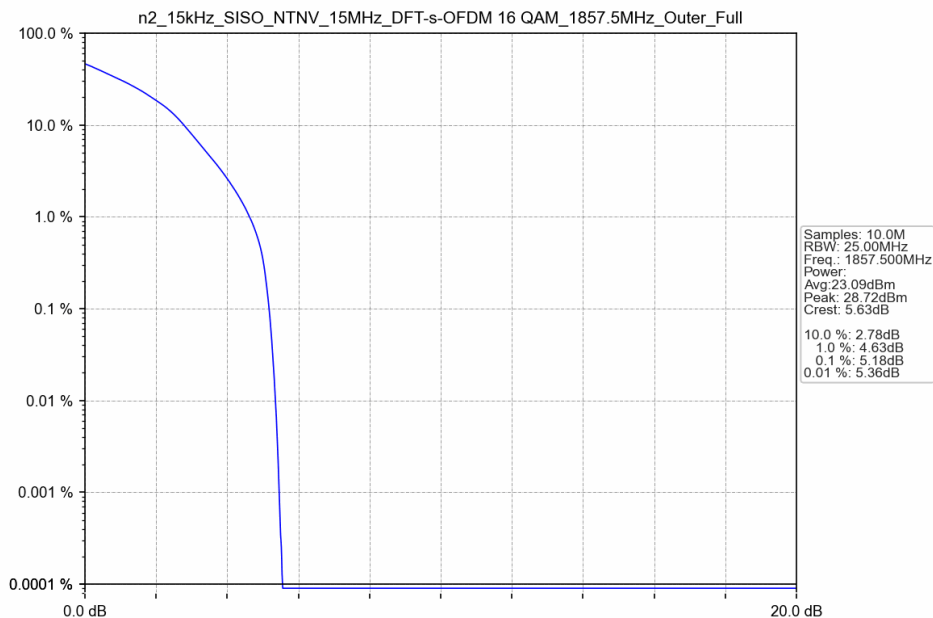


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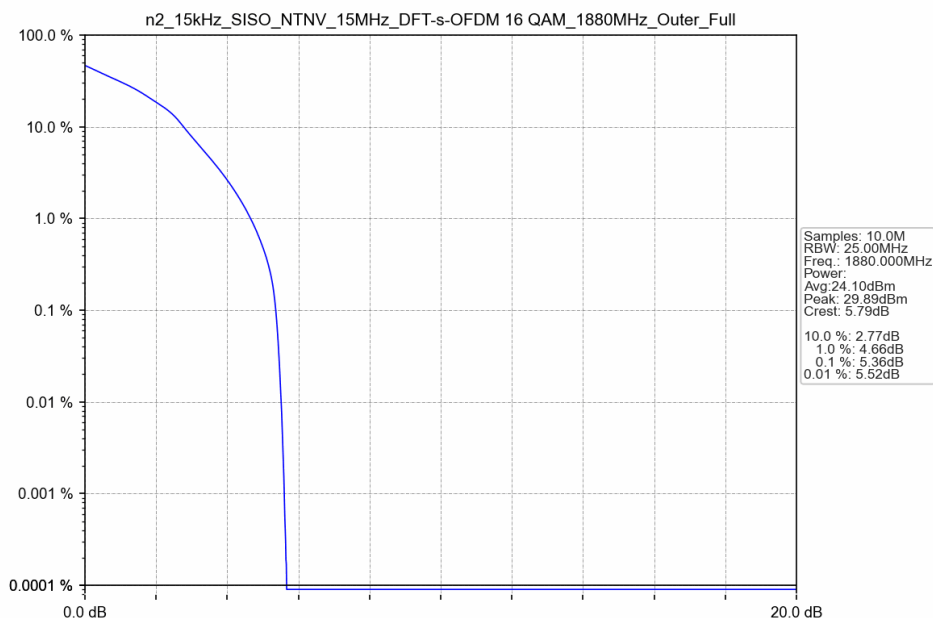
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full

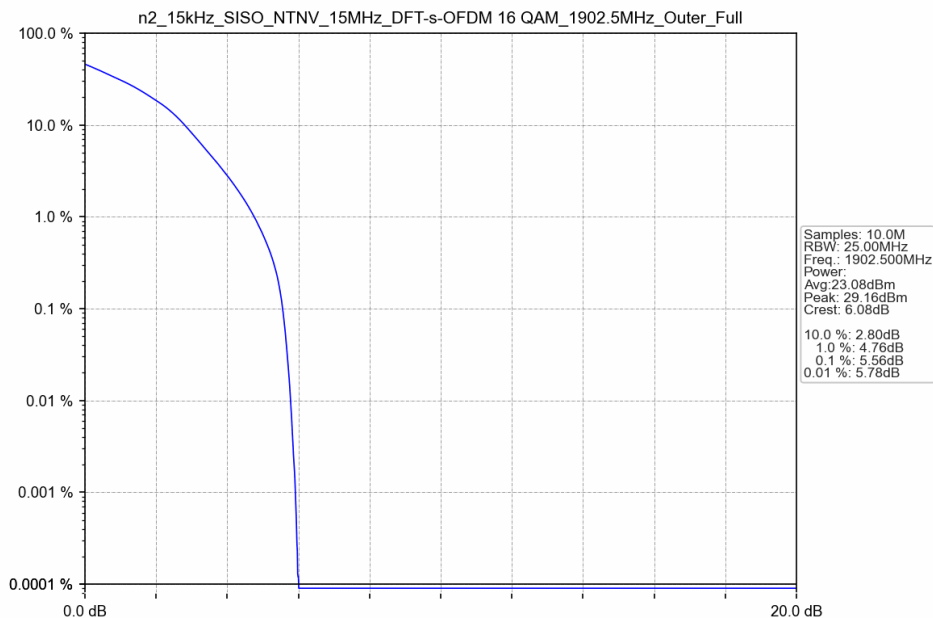


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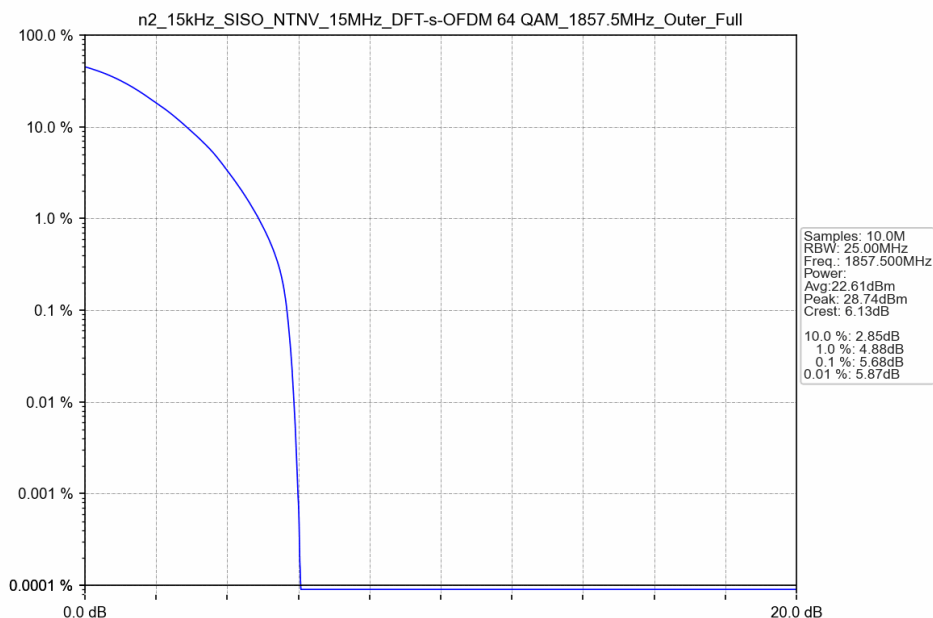
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1857.5MHz_Outer_Full

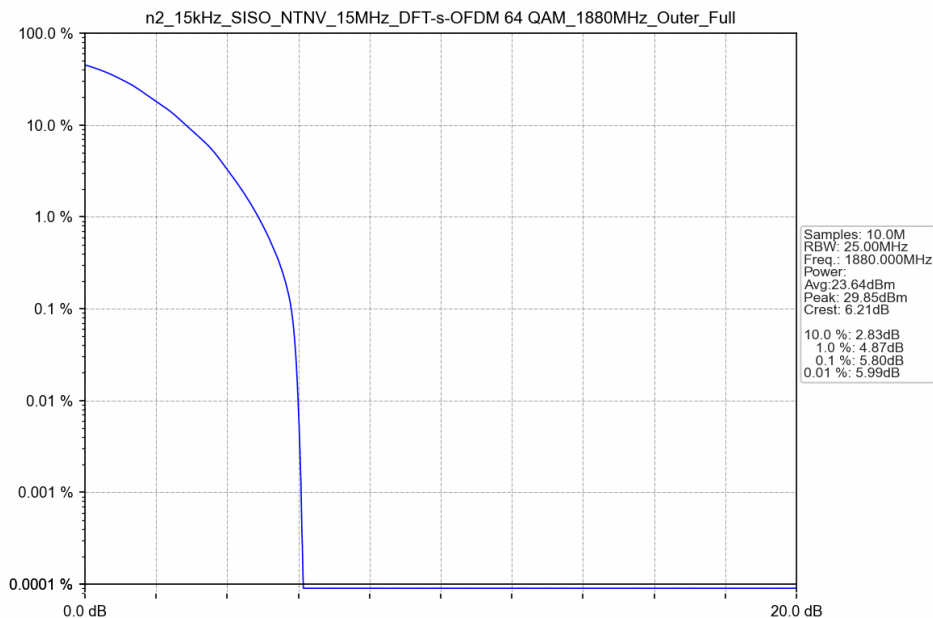


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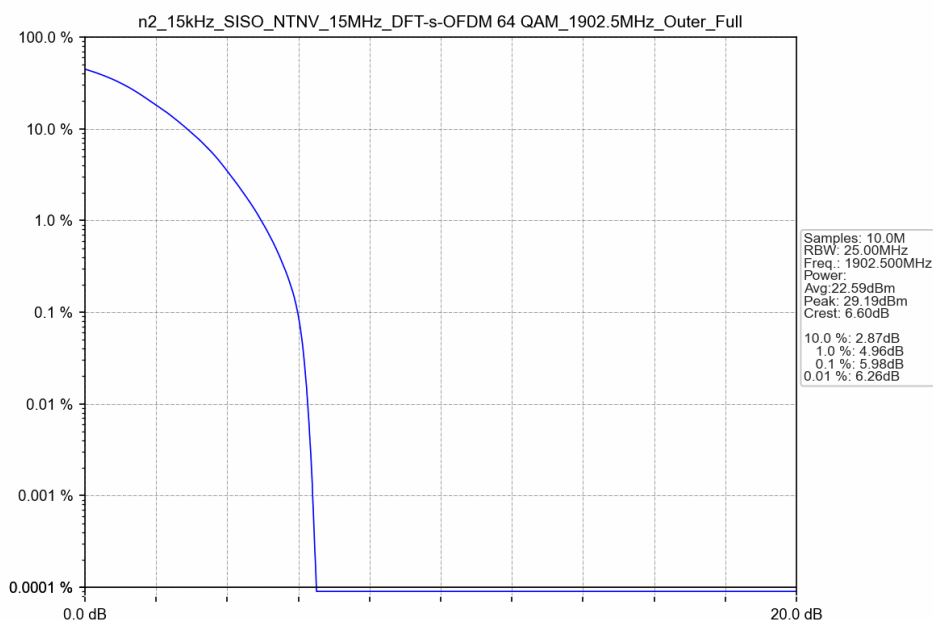
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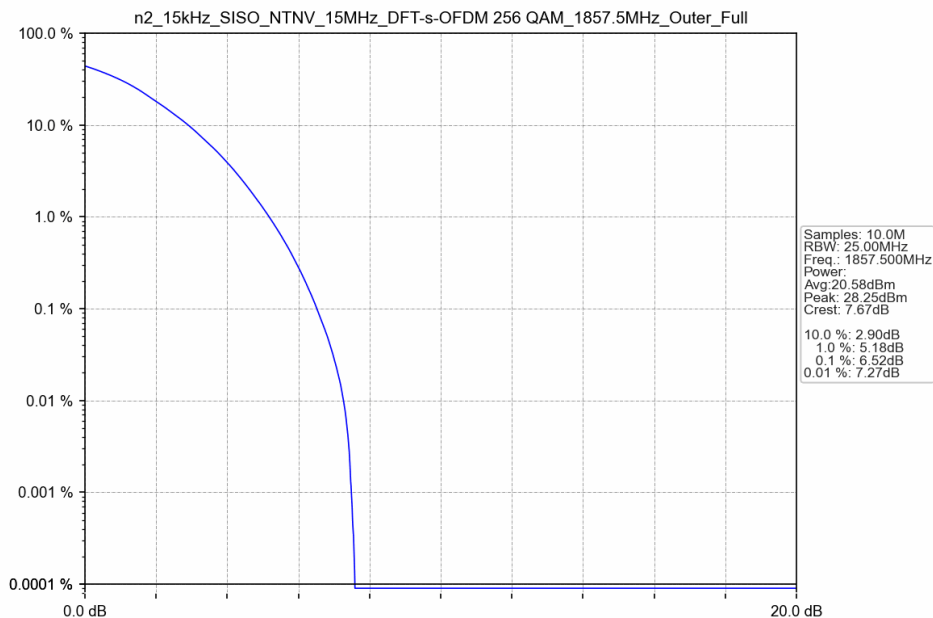


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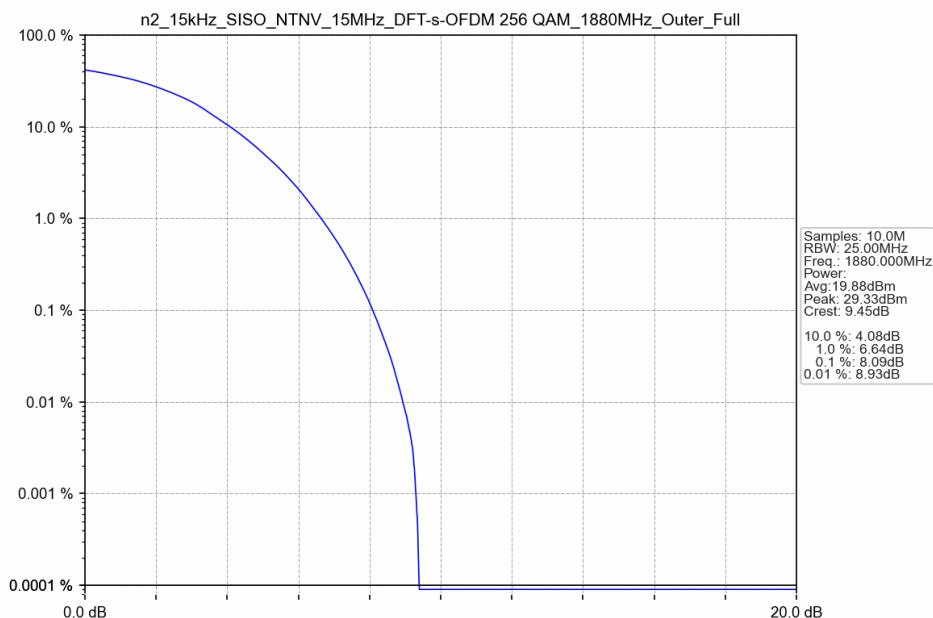
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full

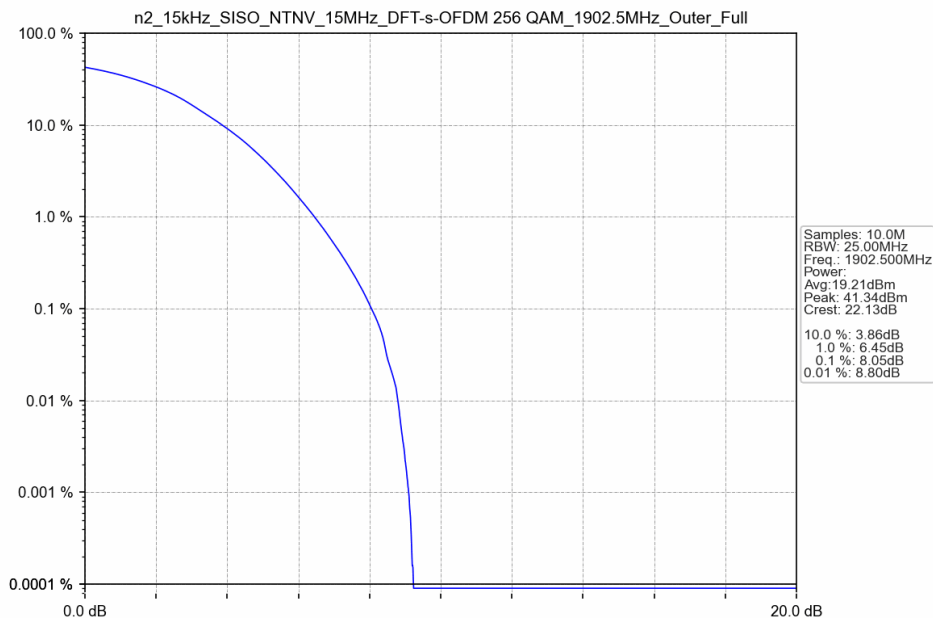


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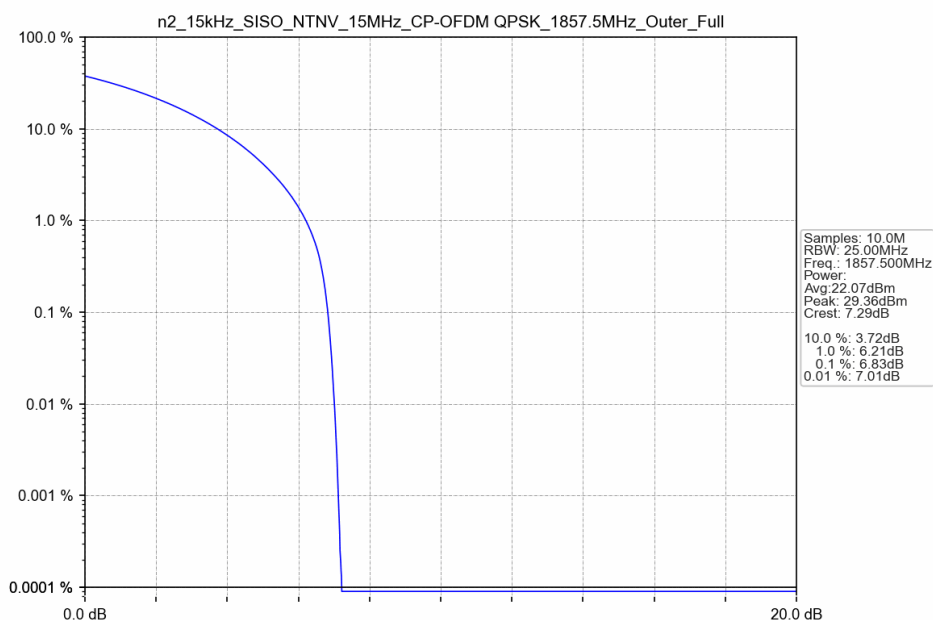
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full

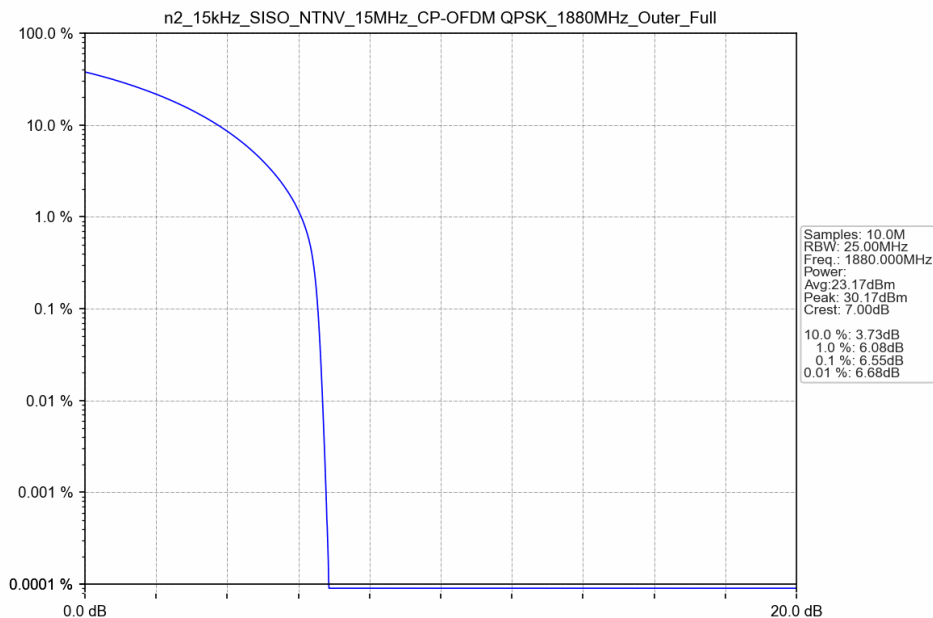


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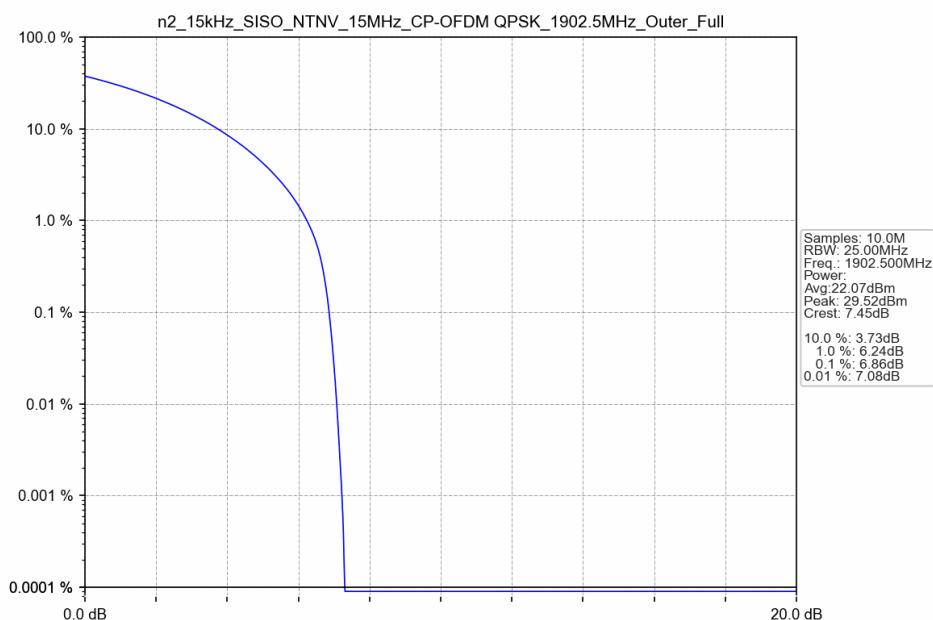
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full

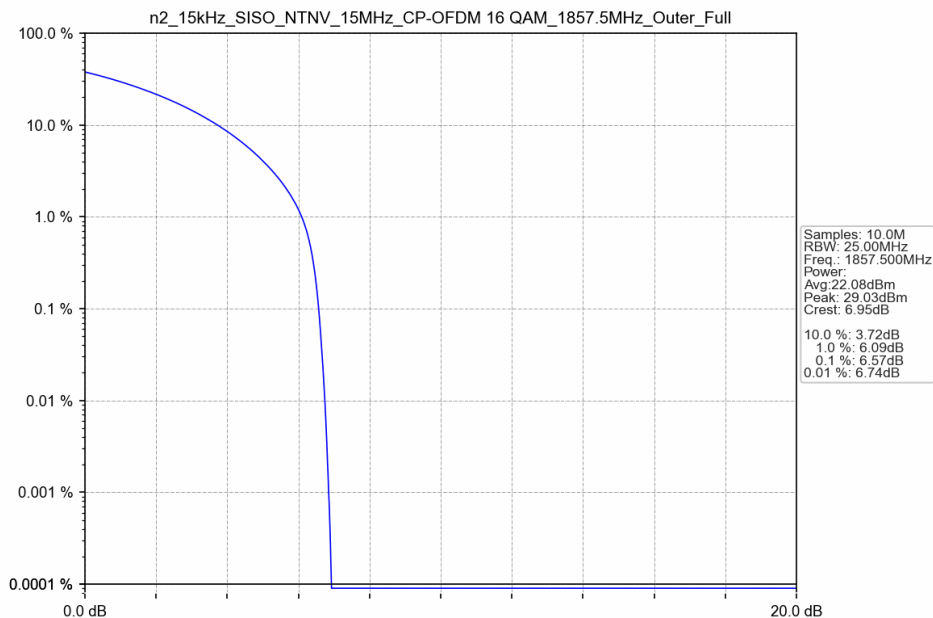


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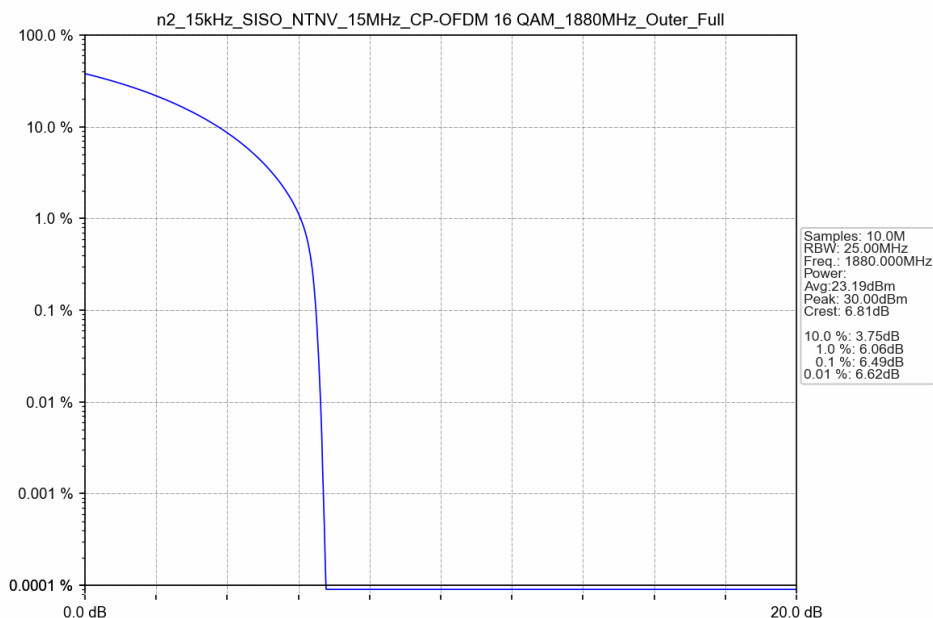
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full

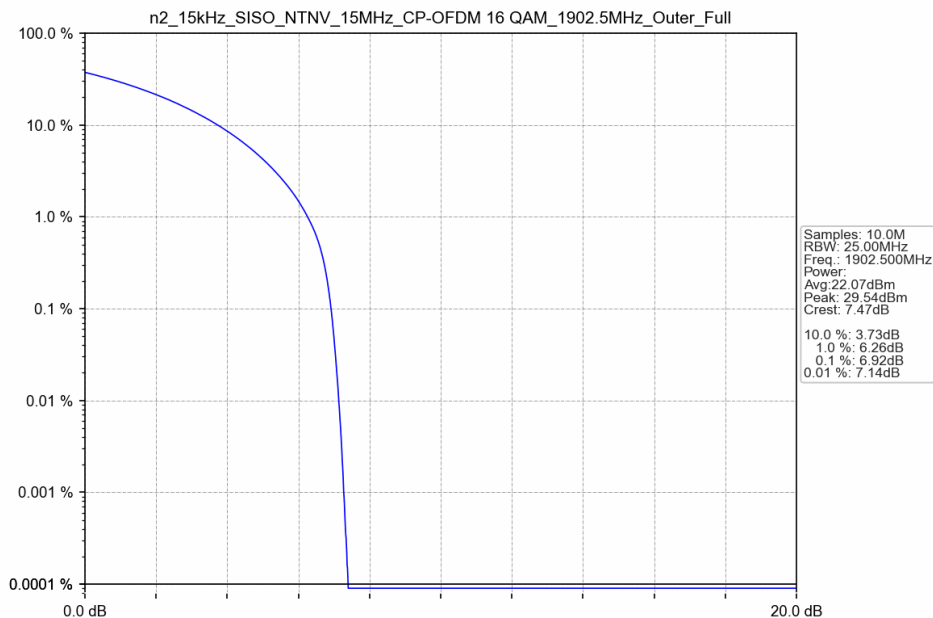


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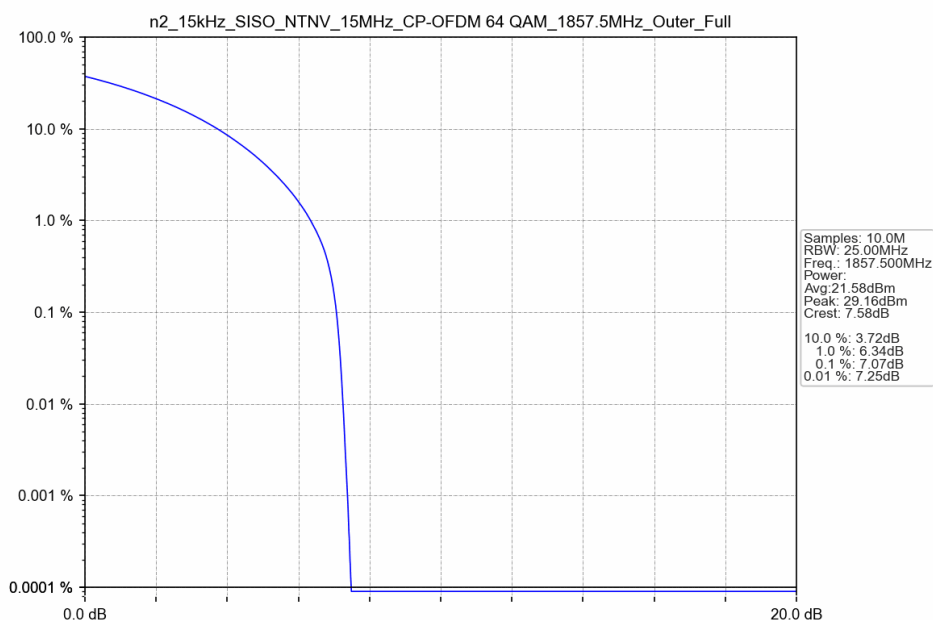
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1857.5MHz_Outer_Full

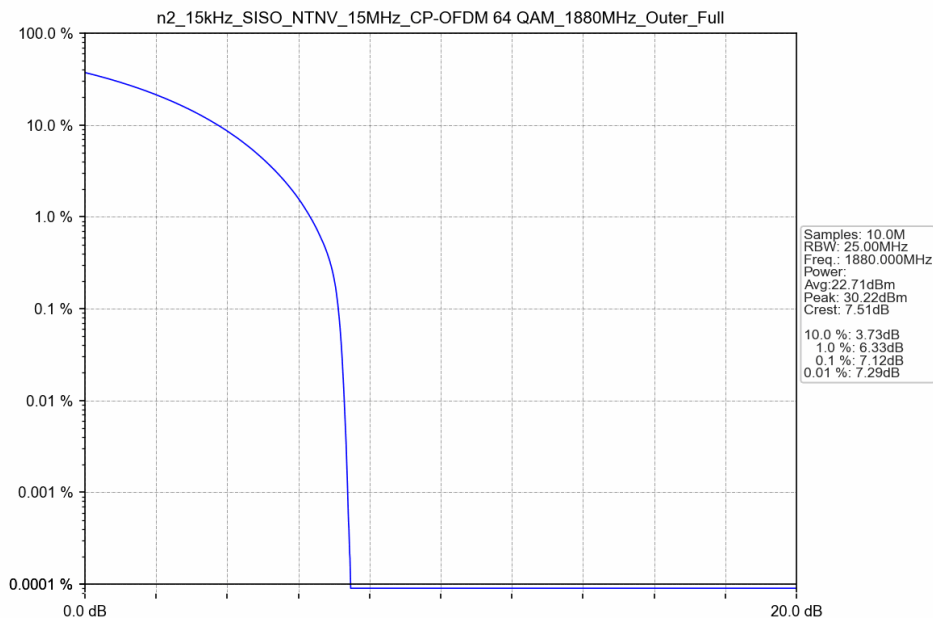


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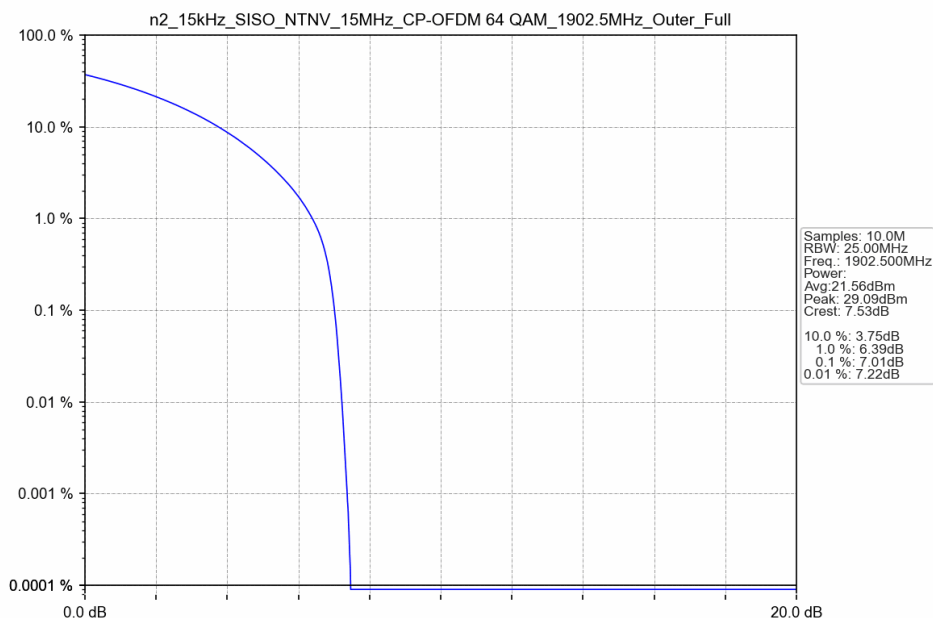
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1902.5MHz_Outer_Full

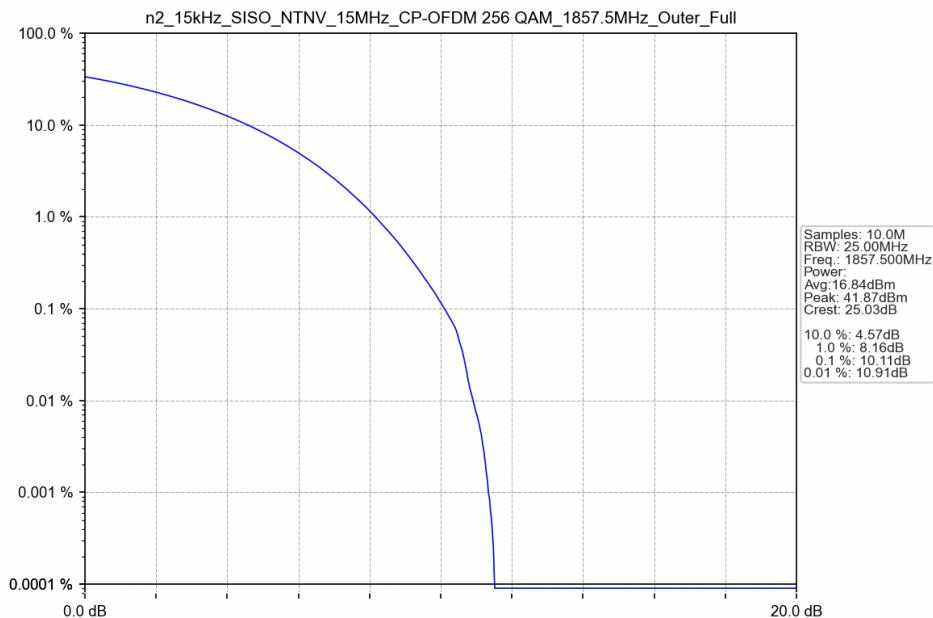


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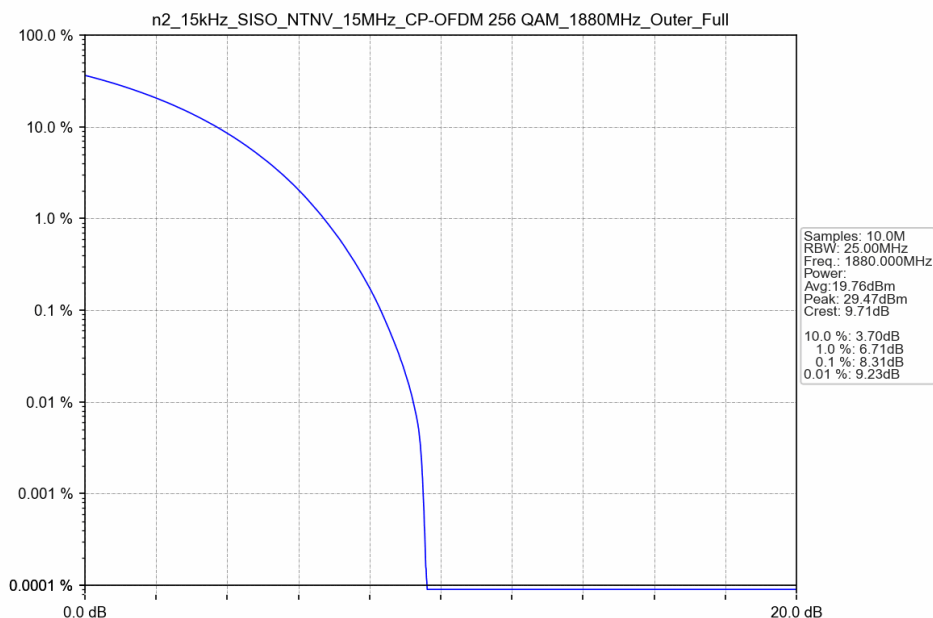
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



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