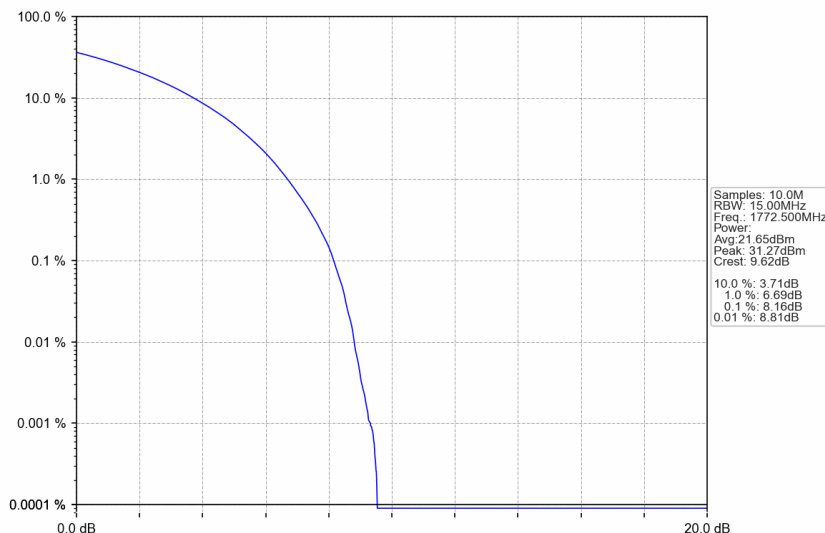
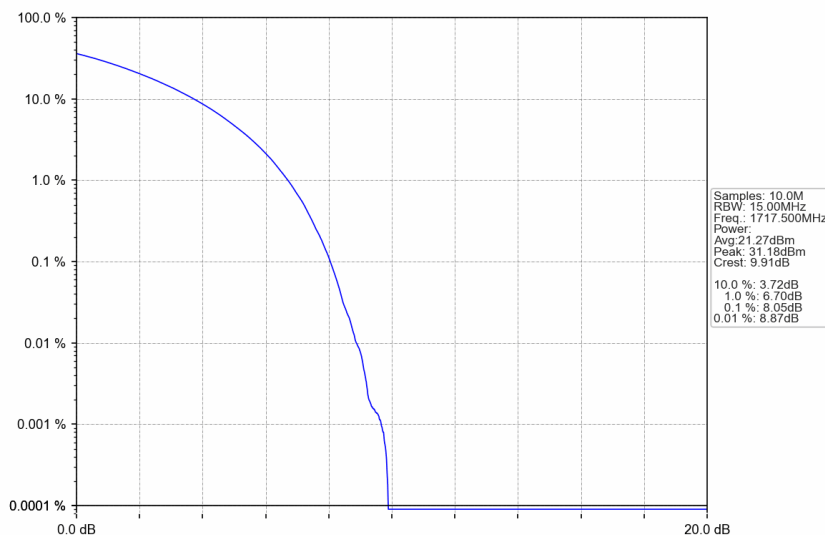


n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1772.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1717.5MHz_Outer_Full

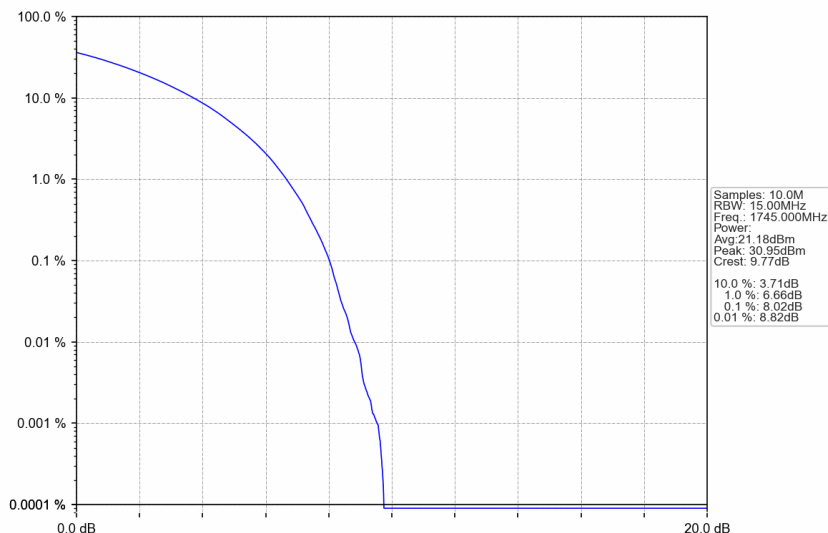


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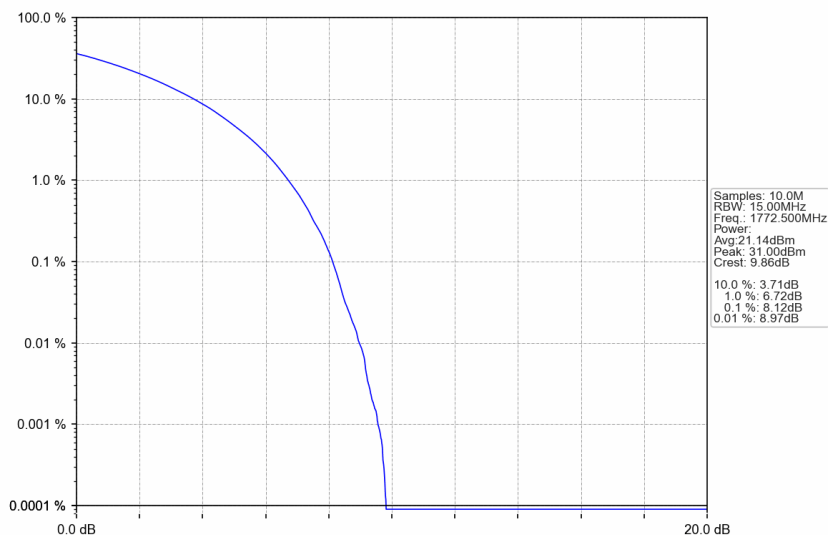
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n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1772.5MHz_Outer_Full



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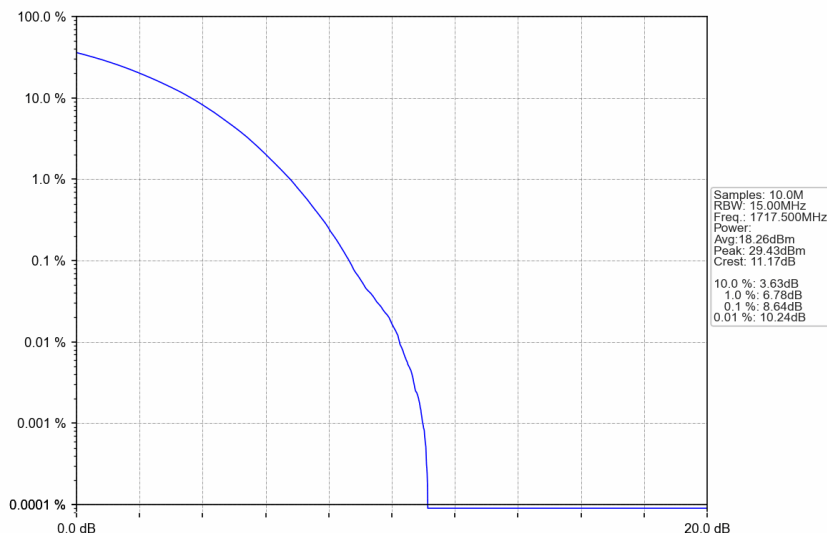
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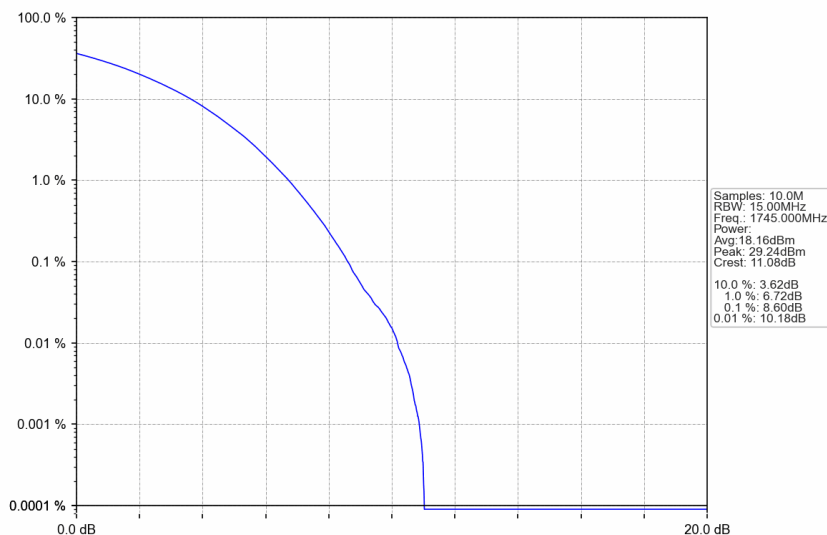
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n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1717.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



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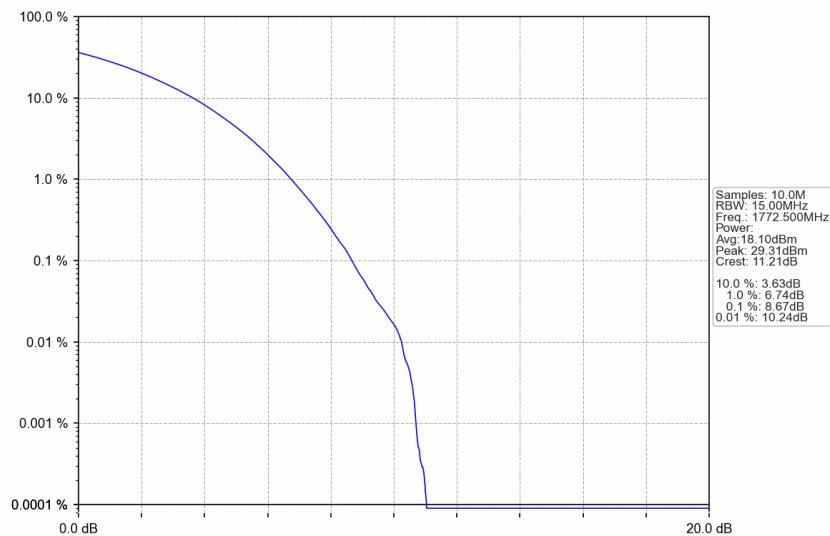
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5.4 15k_SISO_20MHz_NTNV

5.4.1 Test Result

5G NR n66 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	1720	Outer_Full	4.33	/	/	<=13	Pass
	1745	Outer_Full	4.35	/	/	<=13	Pass
	1770	Outer_Full	4.42	/	/	<=13	Pass
DFT-s-OFDM QPSK	1720	Outer_Full	5.40	/	/	<=13	Pass
	1745	Outer_Full	5.39	/	/	<=13	Pass
	1770	Outer_Full	5.45	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1720	Outer_Full	6.21	/	/	<=13	Pass
	1745	Outer_Full	6.18	/	/	<=13	Pass
	1770	Outer_Full	6.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1720	Outer_Full	6.50	/	/	<=13	Pass
	1745	Outer_Full	6.47	/	/	<=13	Pass
	1770	Outer_Full	6.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1720	Outer_Full	6.70	/	/	<=13	Pass
	1745	Outer_Full	6.69	/	/	<=13	Pass
	1770	Outer_Full	6.71	/	/	<=13	Pass
CP-OFDM QPSK	1720	Outer_Full	8.06	/	/	<=13	Pass
	1745	Outer_Full	7.98	/	/	<=13	Pass
	1770	Outer_Full	8.10	/	/	<=13	Pass
CP-OFDM 16 QAM	1720	Outer_Full	8.05	/	/	<=13	Pass
	1745	Outer_Full	7.97	/	/	<=13	Pass
	1770	Outer_Full	8.11	/	/	<=13	Pass
CP-OFDM 64 QAM	1720	Outer_Full	8.29	/	/	<=13	Pass
	1745	Outer_Full	8.25	/	/	<=13	Pass
	1770	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 256 QAM	1720	Outer_Full	8.56	/	/	<=13	Pass
	1745	Outer_Full	8.55	/	/	<=13	Pass
	1770	Outer_Full	8.60	/	/	<=13	Pass

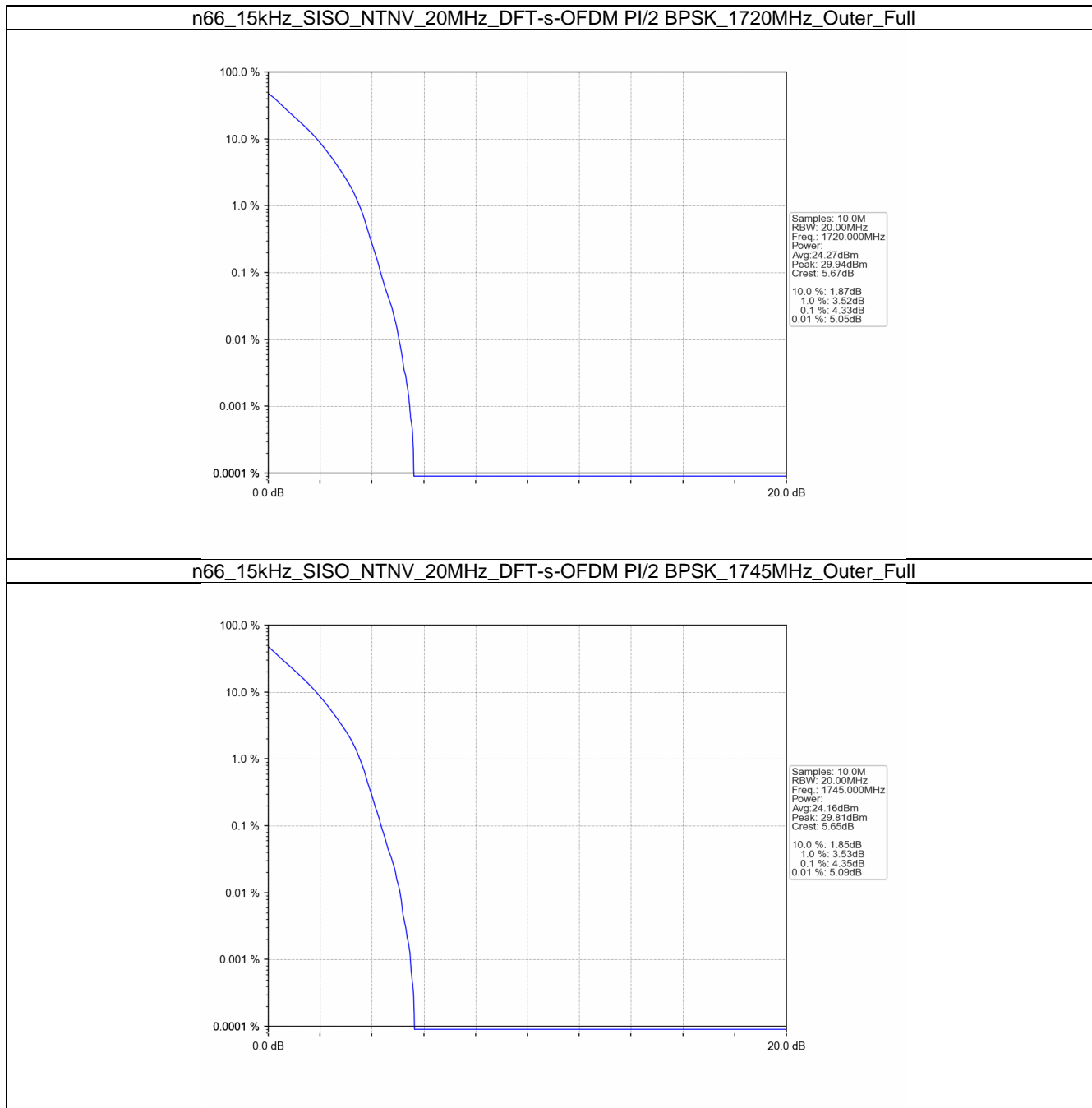


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5.4.2 Test Graph



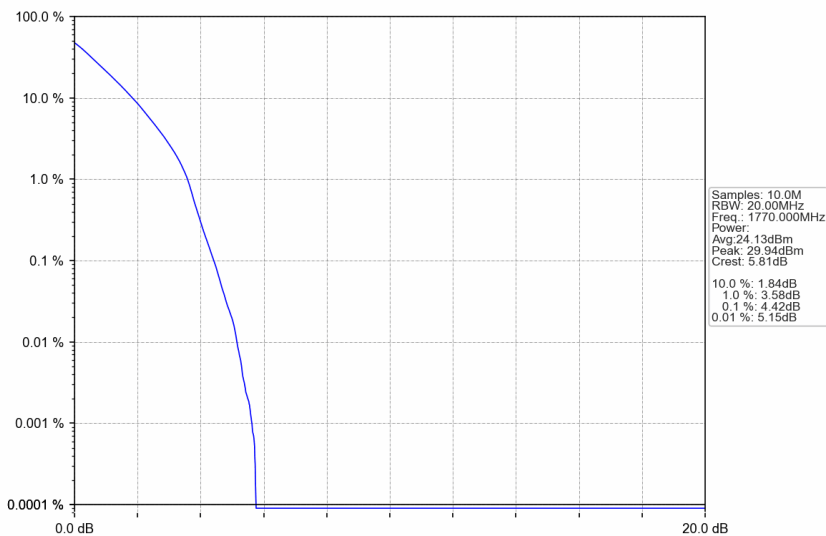
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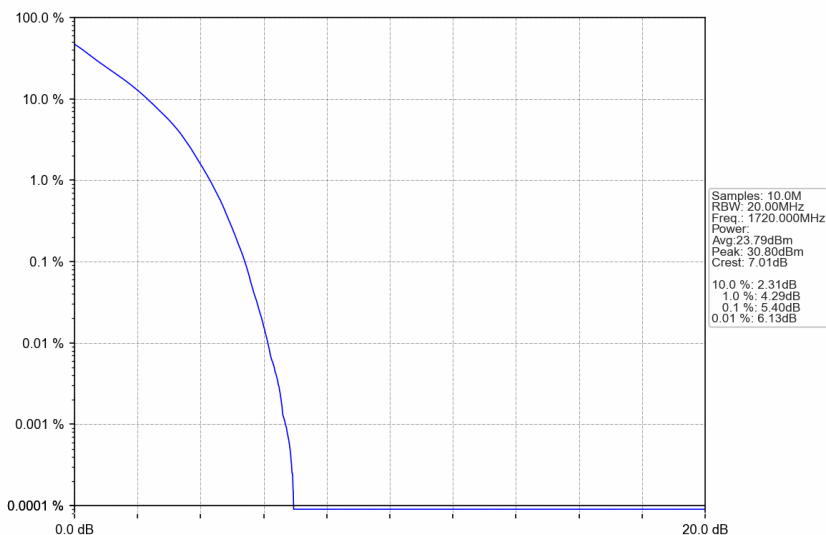
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1770MHz_Outer_Full



n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1720MHz_Outer_Full

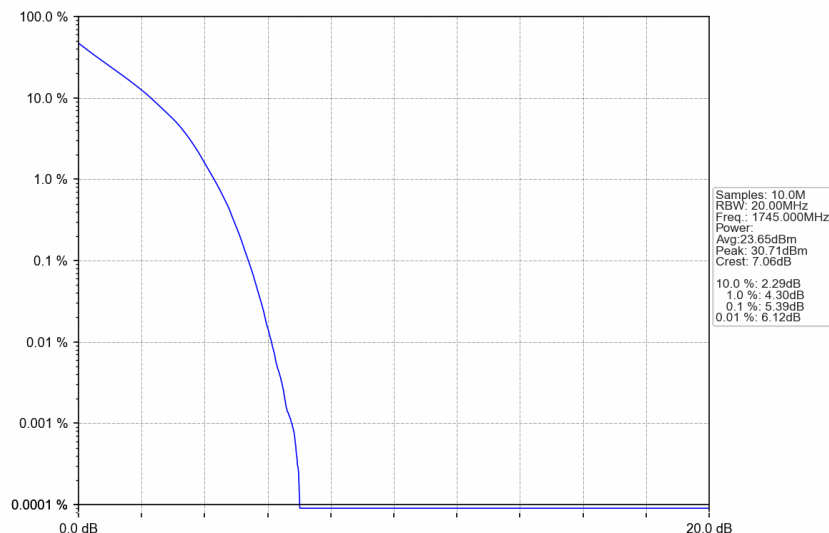


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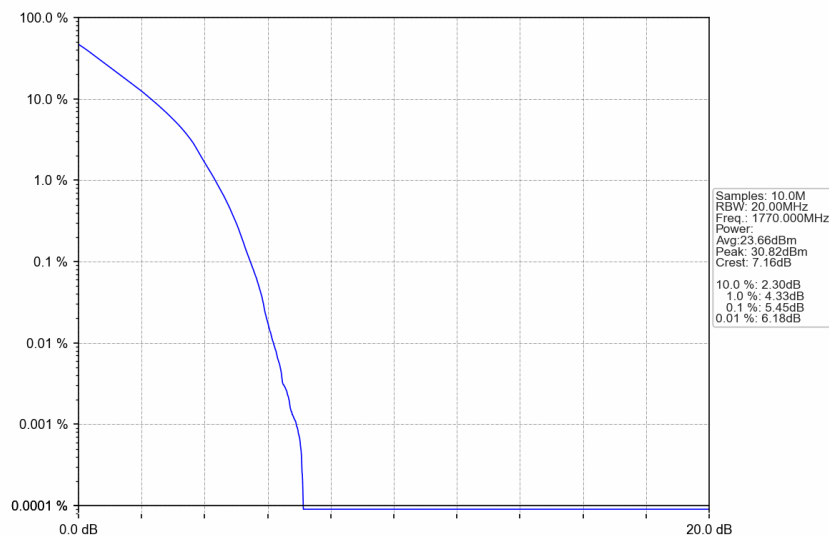
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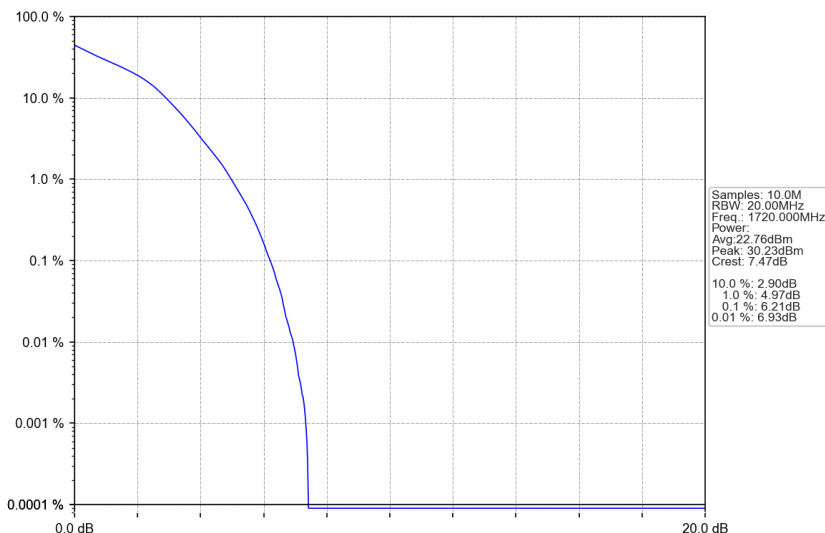
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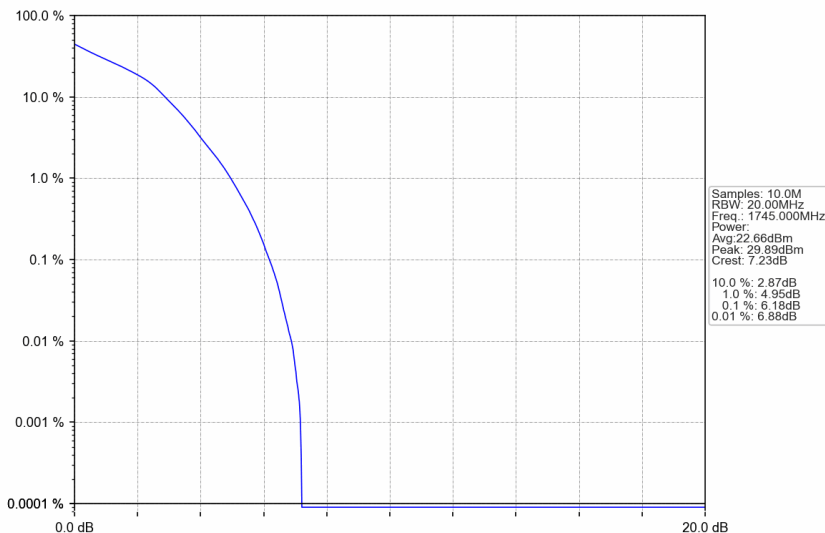
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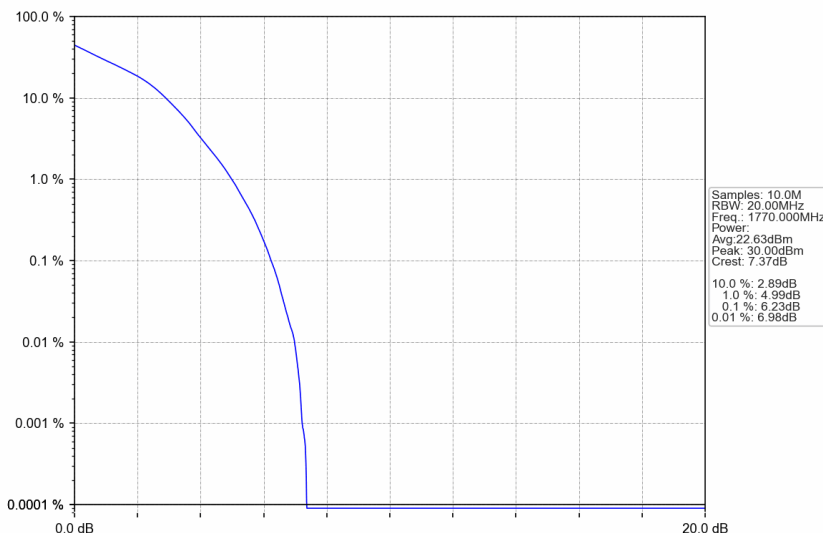


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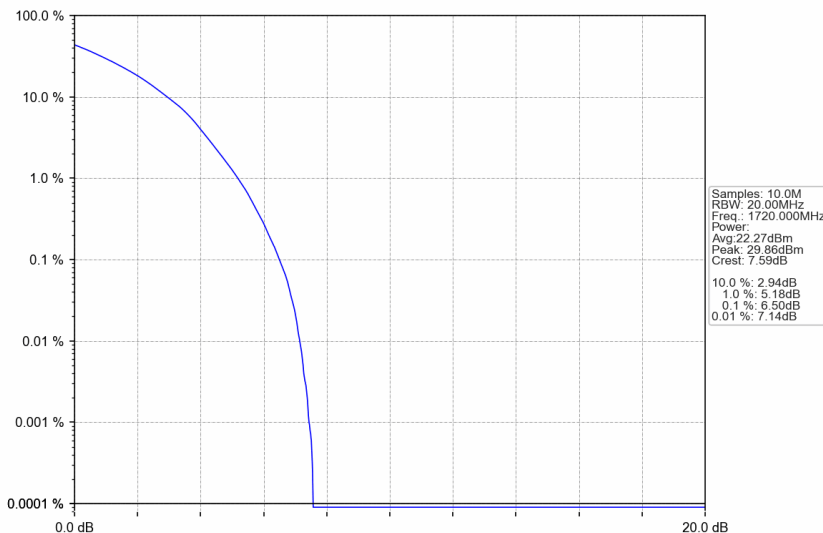
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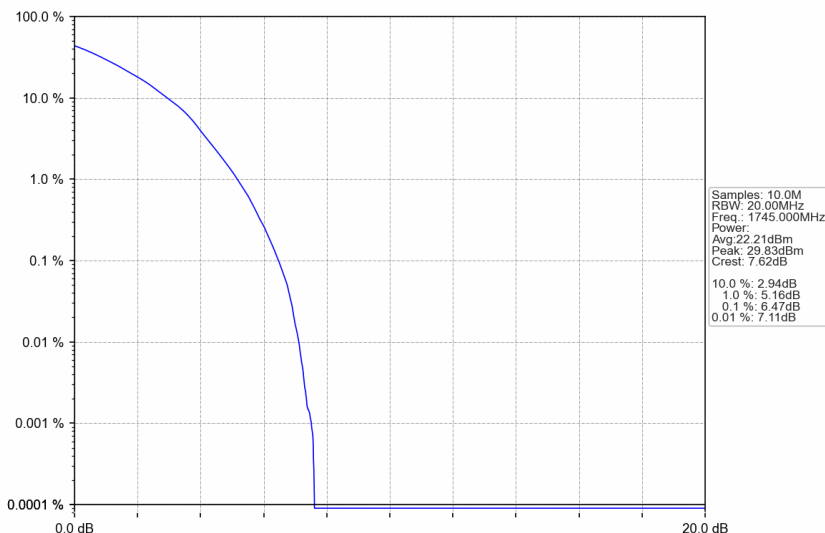


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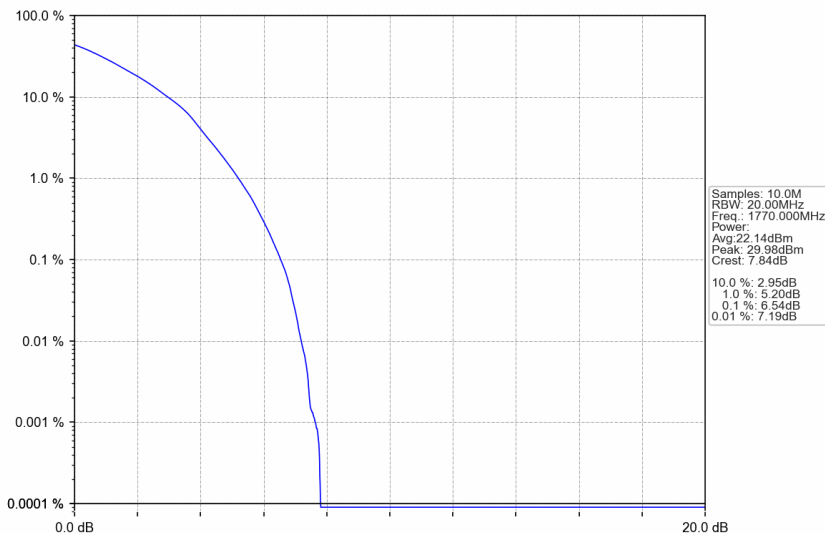
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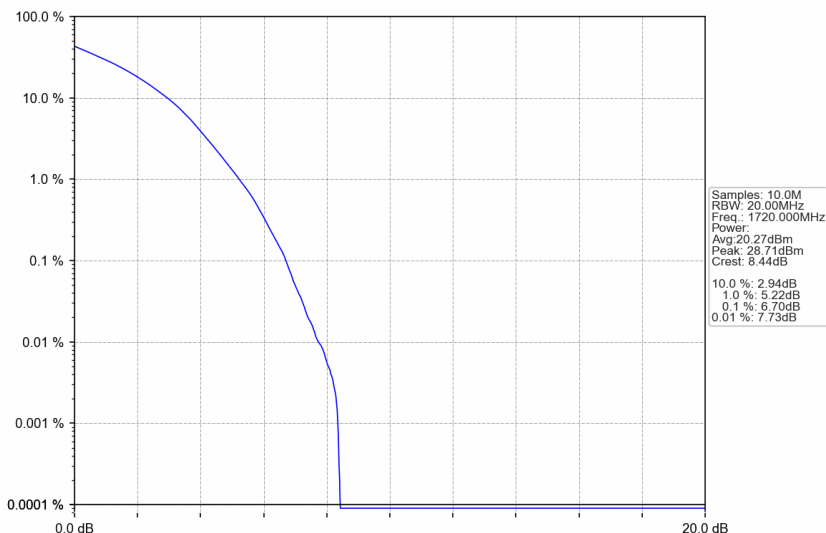
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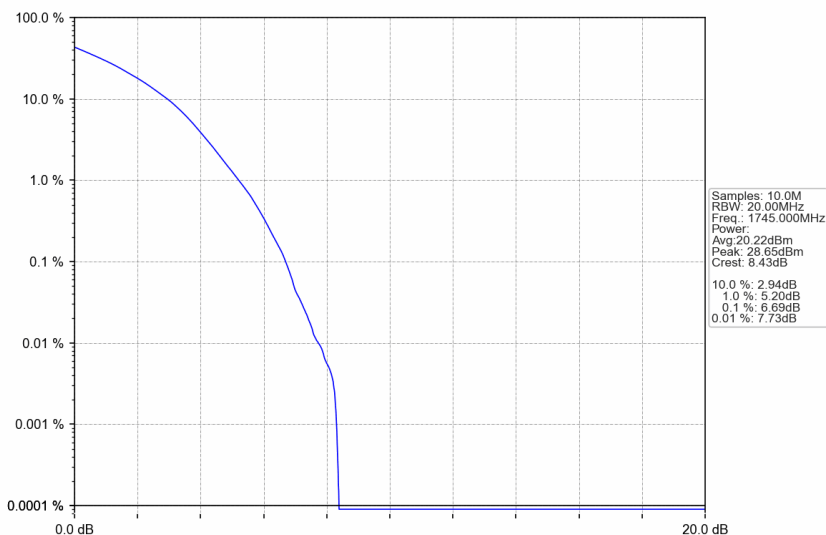
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1745MHz_Outer_Full



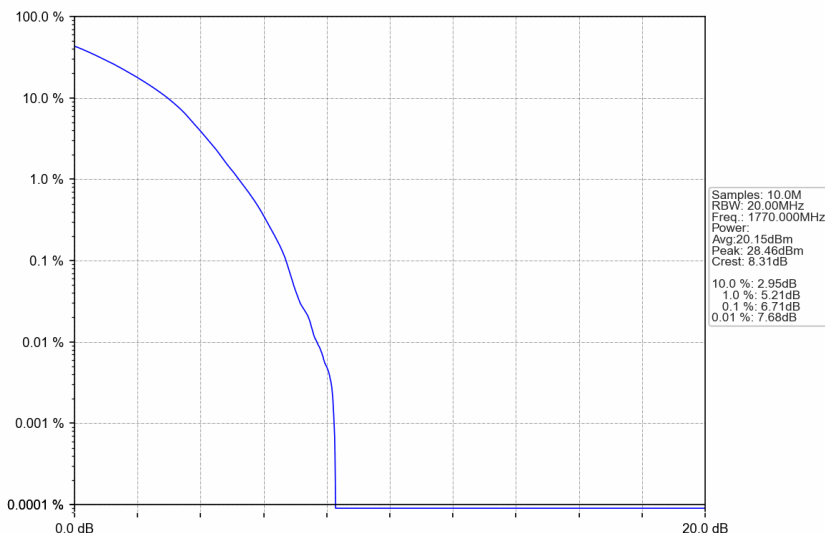
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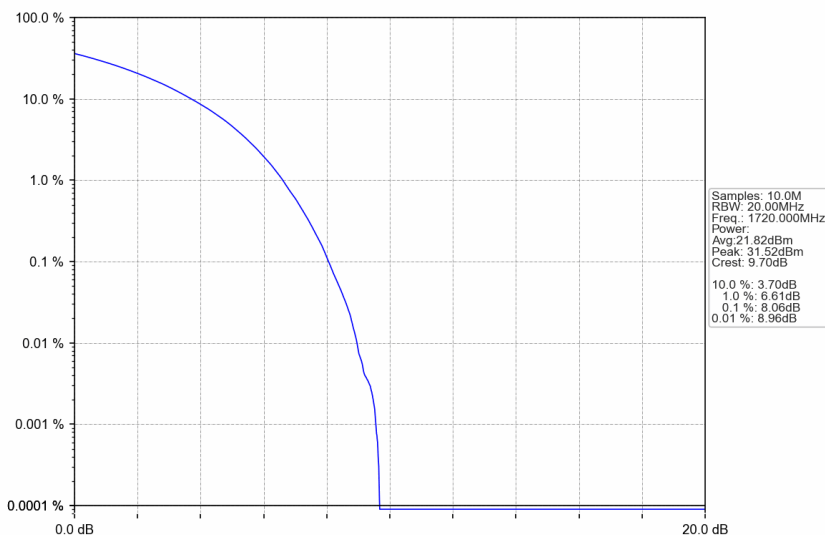
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1770MHz_Outer_Full



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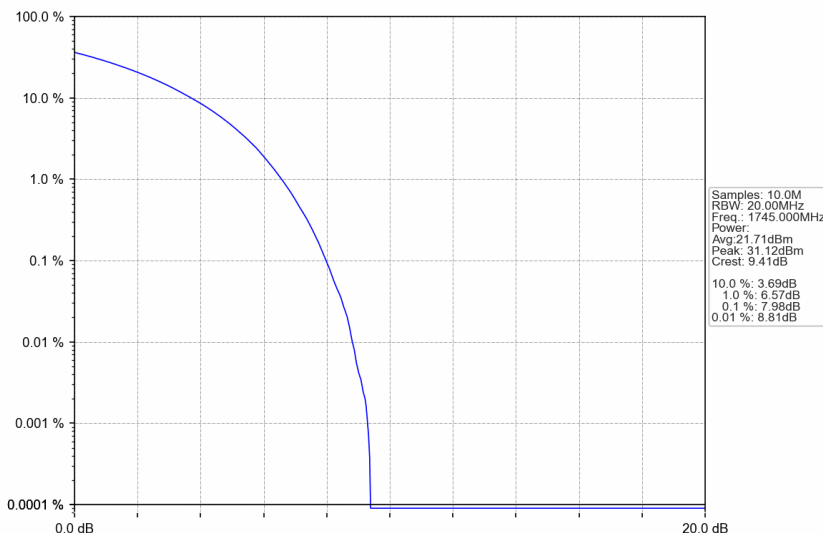


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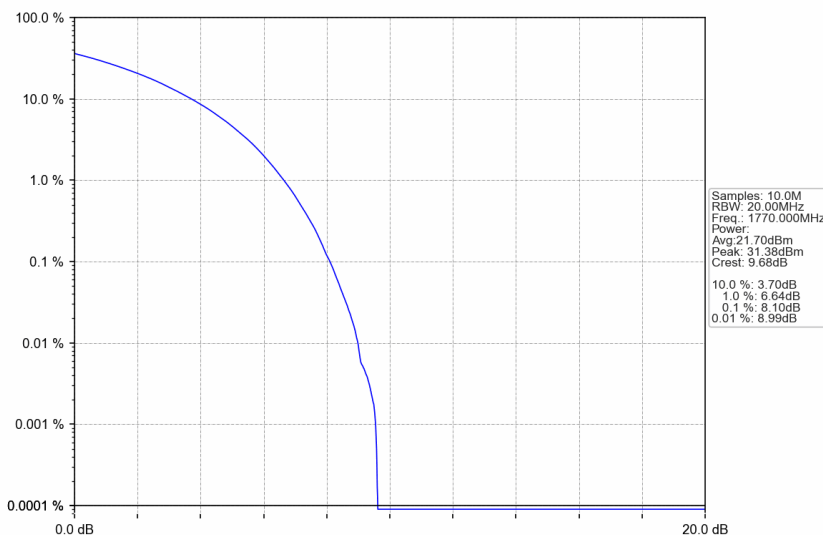
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n66_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1745MHz_Outer_Full



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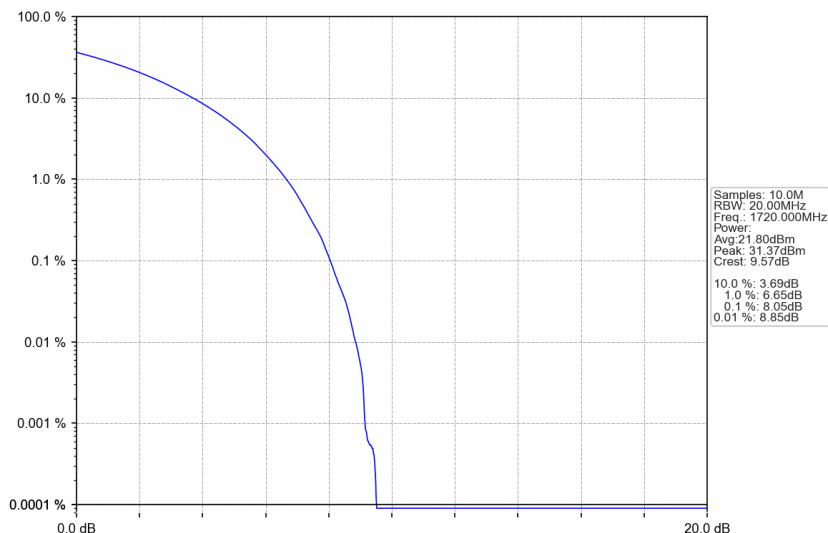
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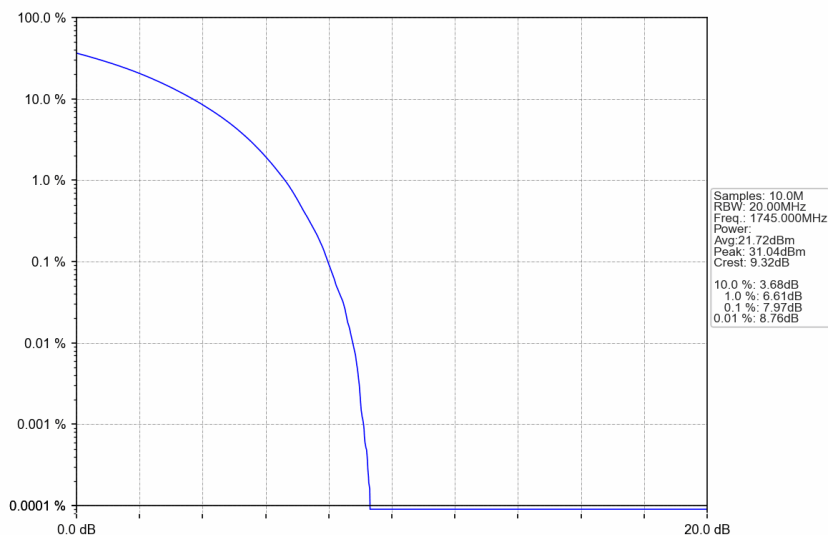
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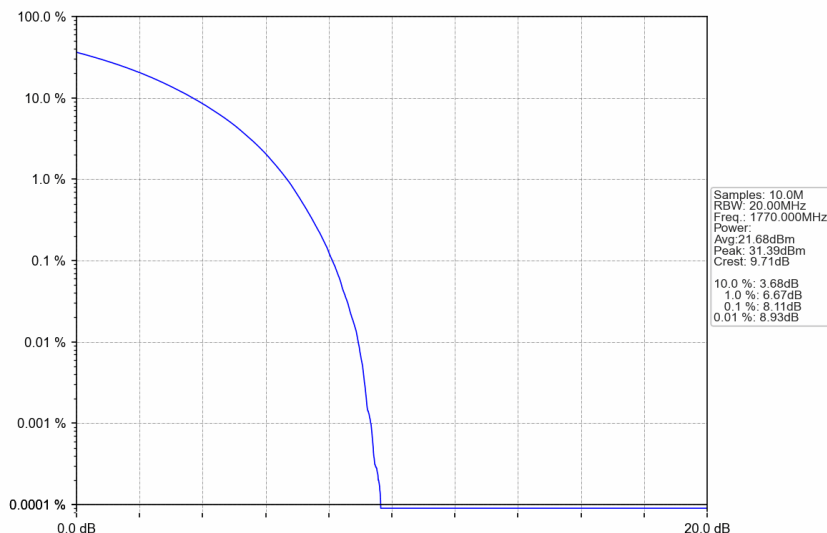
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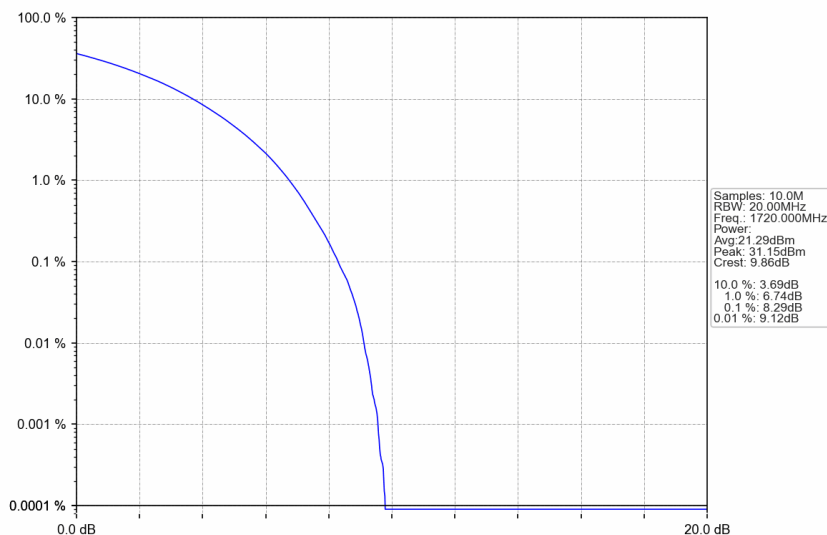
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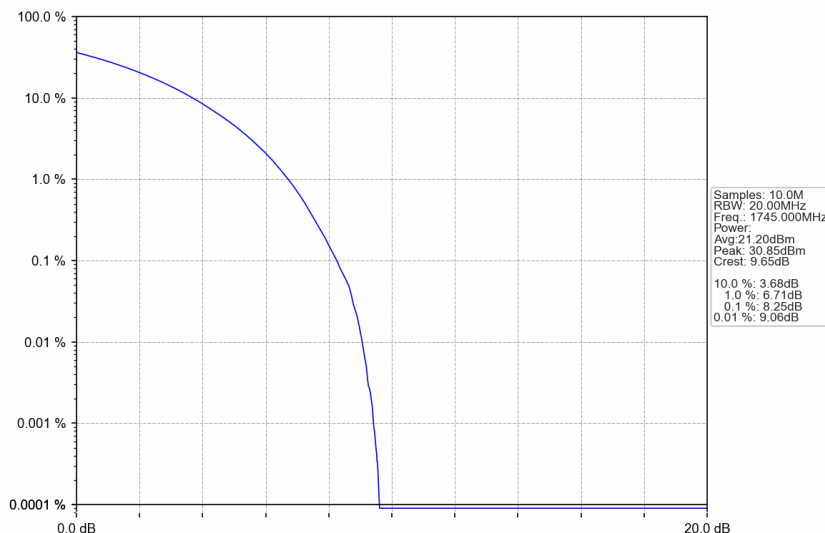


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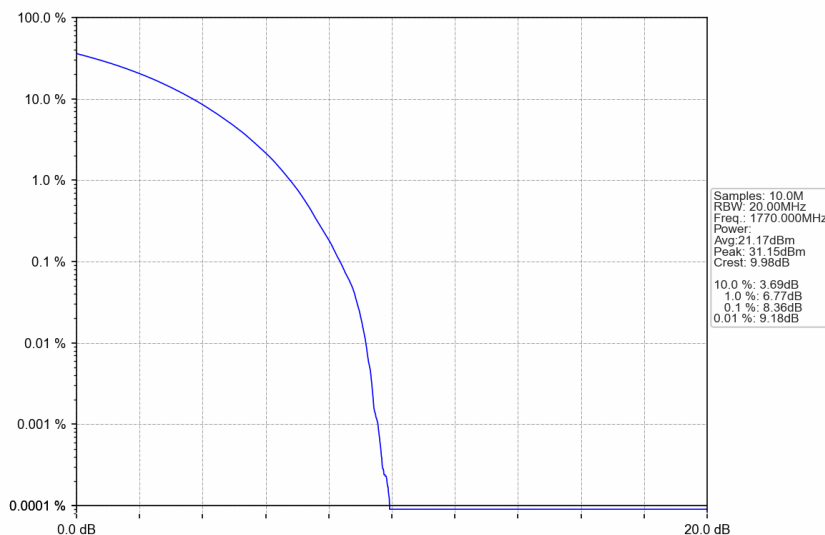
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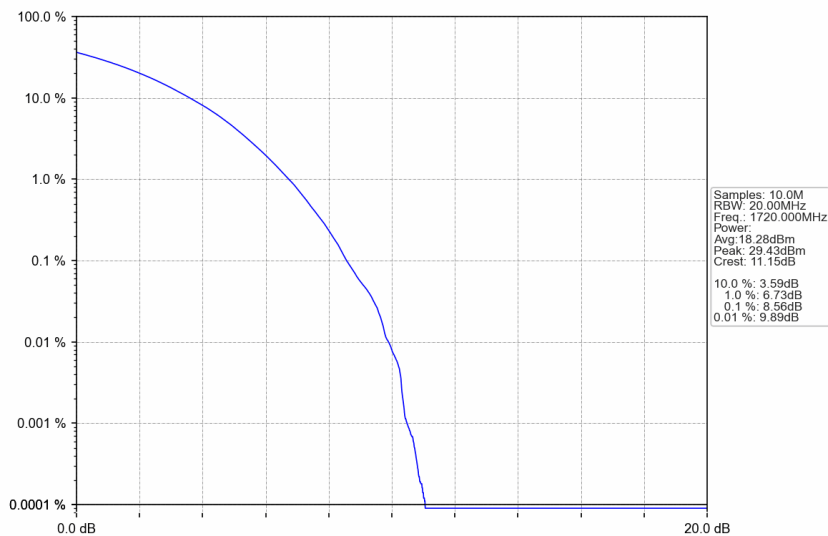
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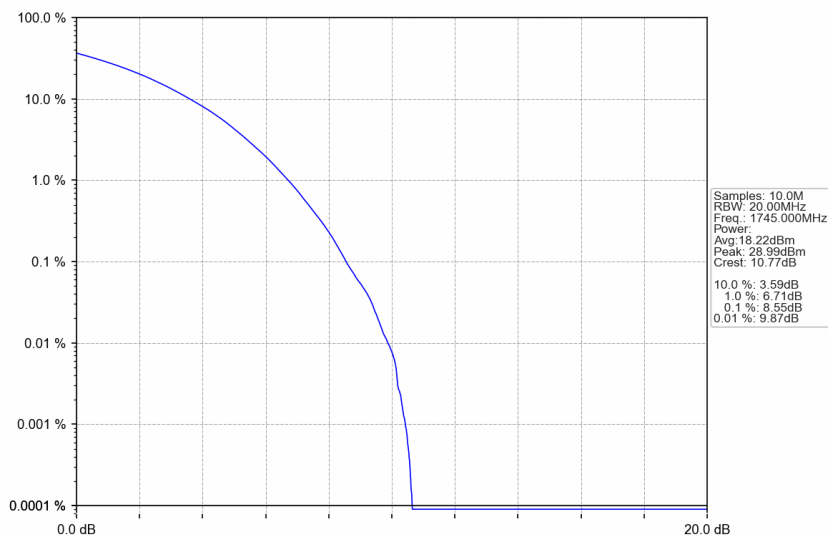
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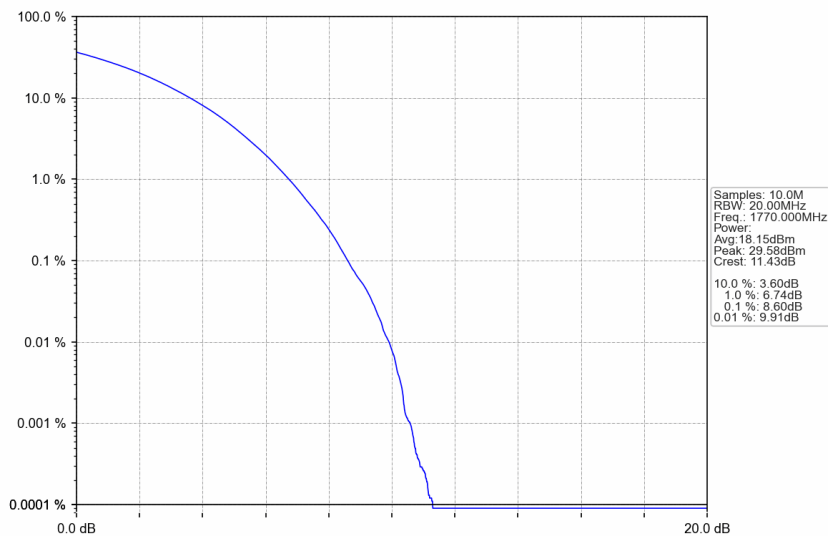


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5.5 15k_SISO_25MHz_NTNV

5.5.1 Test Result

5G NR n66 SCS=15kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1722.5	Outer_Full	4.86	/	/	<=13	Pass
	1745	Outer_Full	4.70	/	/	<=13	Pass
	1767.5	Outer_Full	4.55	/	/	<=13	Pass
DFT-s-OFDM QPSK	1722.5	Outer_Full	5.02	/	/	<=13	Pass
	1745	Outer_Full	5.01	/	/	<=13	Pass
	1767.5	Outer_Full	5.04	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1722.5	Outer_Full	6.10	/	/	<=13	Pass
	1745	Outer_Full	6.10	/	/	<=13	Pass
	1767.5	Outer_Full	6.16	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1722.5	Outer_Full	6.45	/	/	<=13	Pass
	1745	Outer_Full	6.43	/	/	<=13	Pass
	1767.5	Outer_Full	6.47	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1722.5	Outer_Full	6.59	/	/	<=13	Pass
	1745	Outer_Full	6.58	/	/	<=13	Pass
	1767.5	Outer_Full	6.61	/	/	<=13	Pass
CP-OFDM QPSK	1722.5	Outer_Full	8.06	/	/	<=13	Pass
	1745	Outer_Full	8.04	/	/	<=13	Pass
	1767.5	Outer_Full	8.14	/	/	<=13	Pass
CP-OFDM 16 QAM	1722.5	Outer_Full	8.24	/	/	<=13	Pass
	1745	Outer_Full	8.21	/	/	<=13	Pass
	1767.5	Outer_Full	8.29	/	/	<=13	Pass
CP-OFDM 64 QAM	1722.5	Outer_Full	8.21	/	/	<=13	Pass
	1745	Outer_Full	8.17	/	/	<=13	Pass
	1767.5	Outer_Full	8.25	/	/	<=13	Pass
CP-OFDM 256 QAM	1722.5	Outer_Full	8.55	/	/	<=13	Pass
	1745	Outer_Full	8.53	/	/	<=13	Pass
	1767.5	Outer_Full	8.58	/	/	<=13	Pass

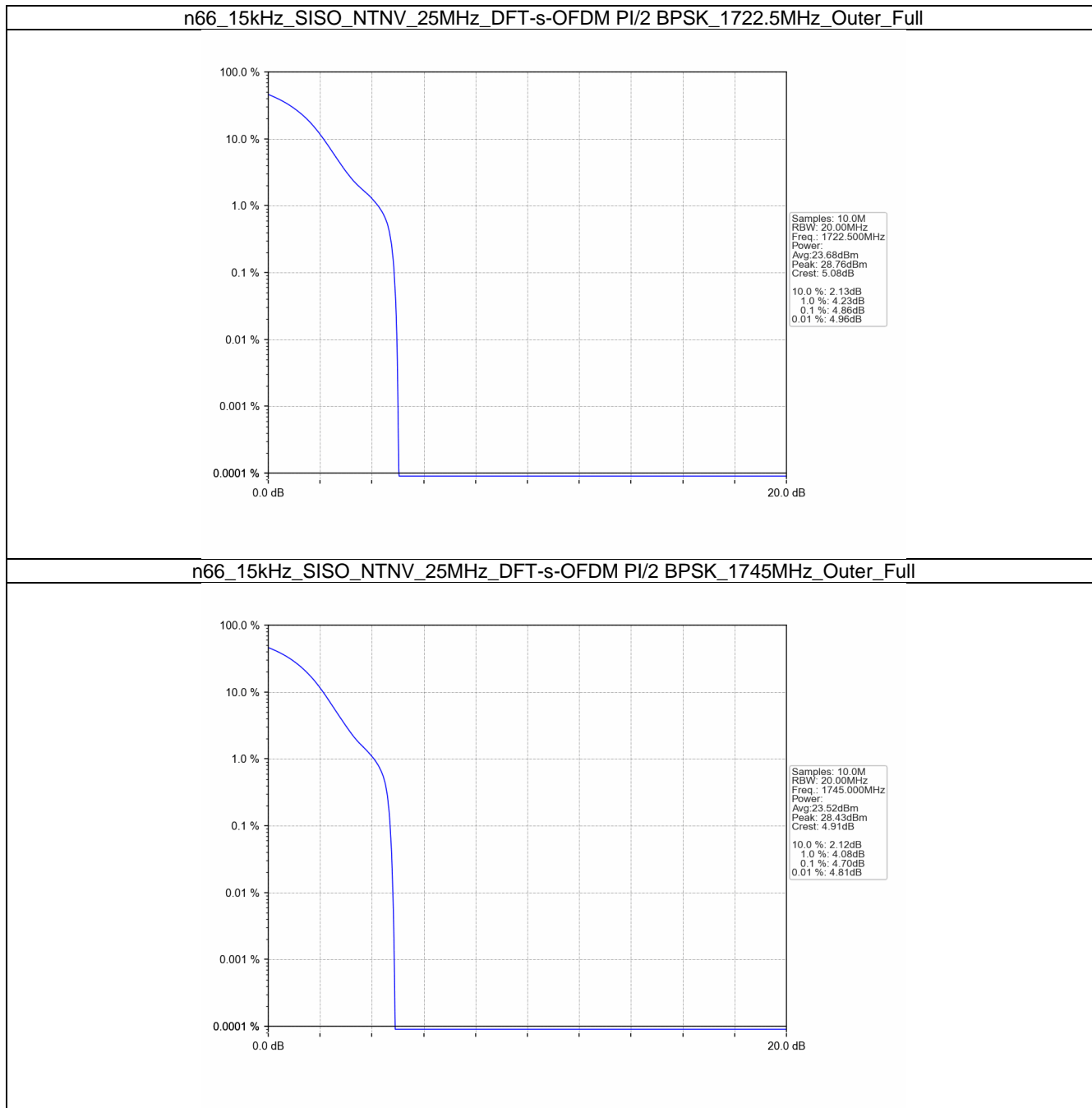


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5.5.2 Test Graph

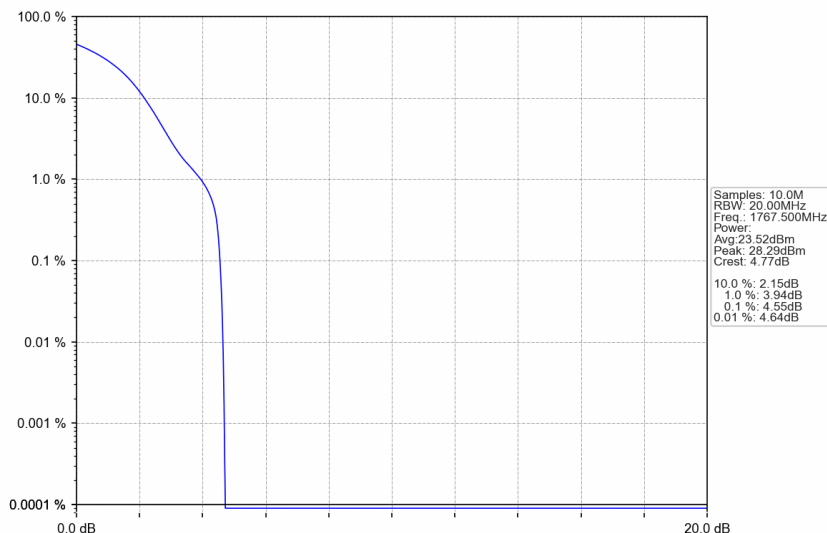


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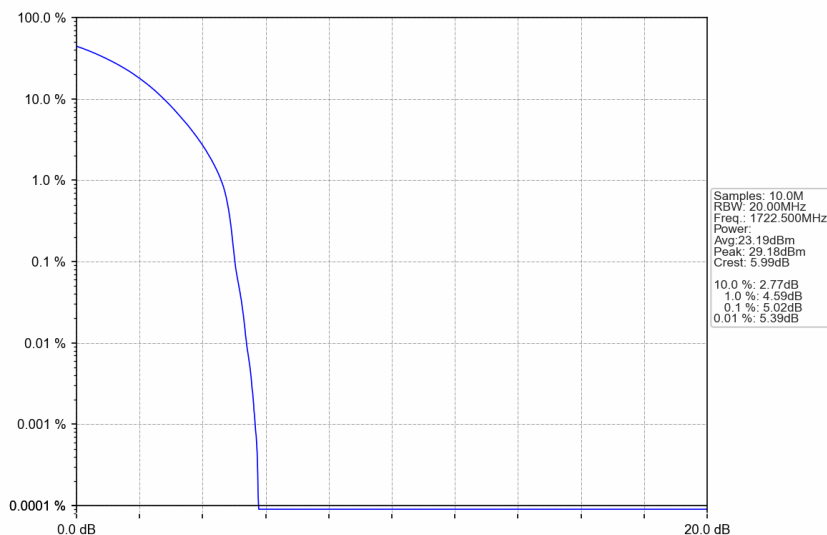
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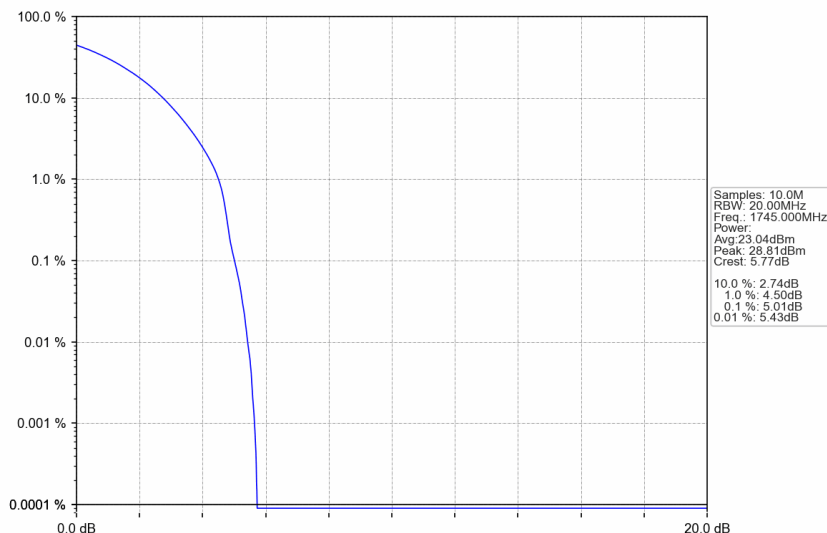


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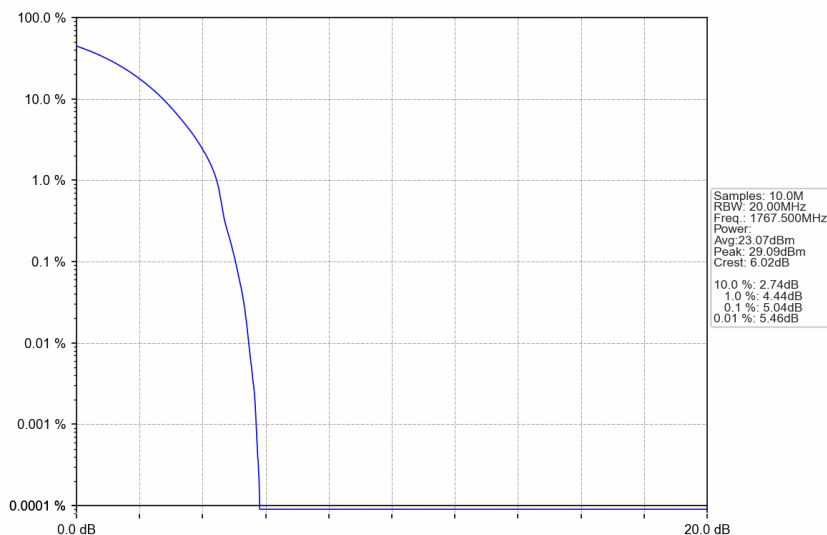
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1767.5MHz_Outer_Full

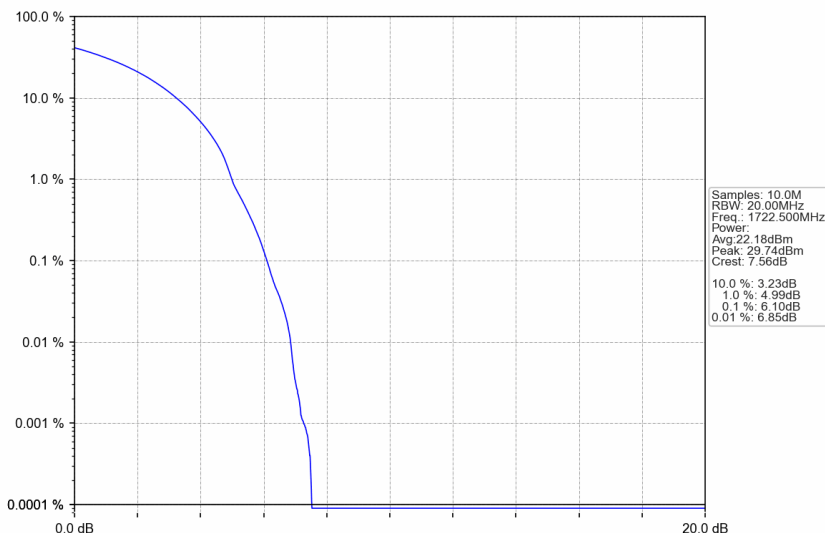


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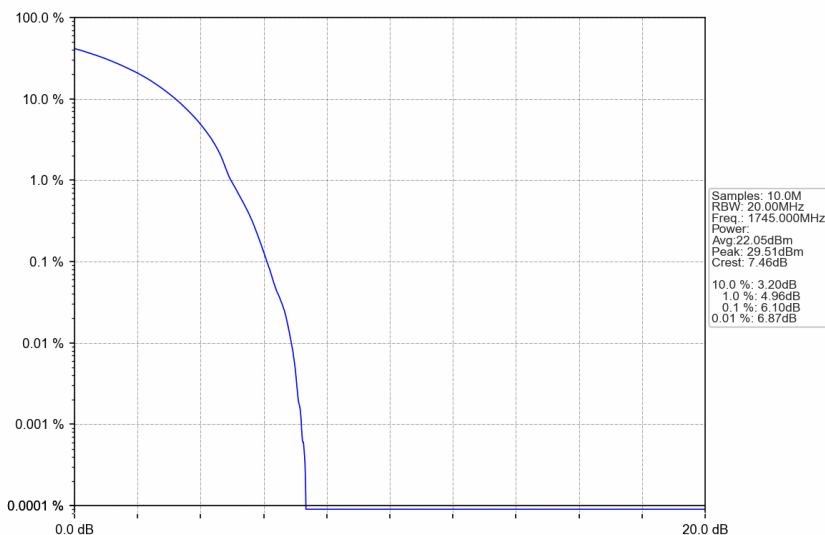
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_1722.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full

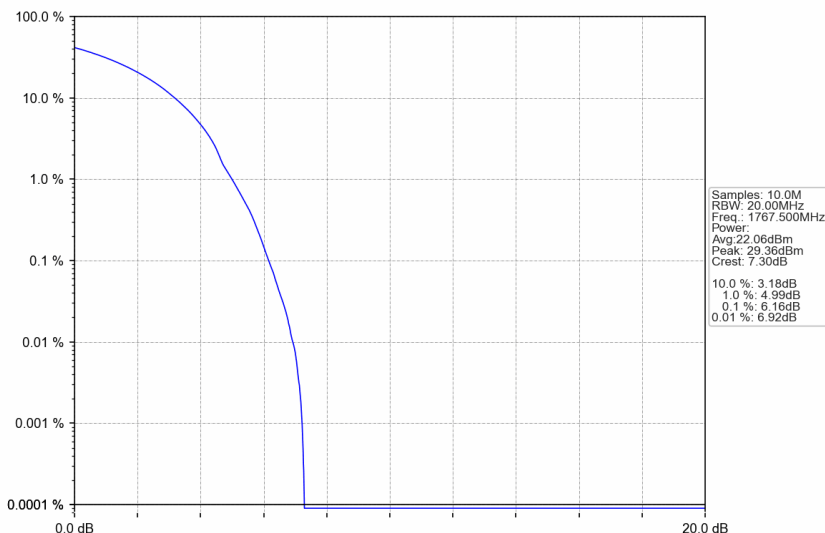


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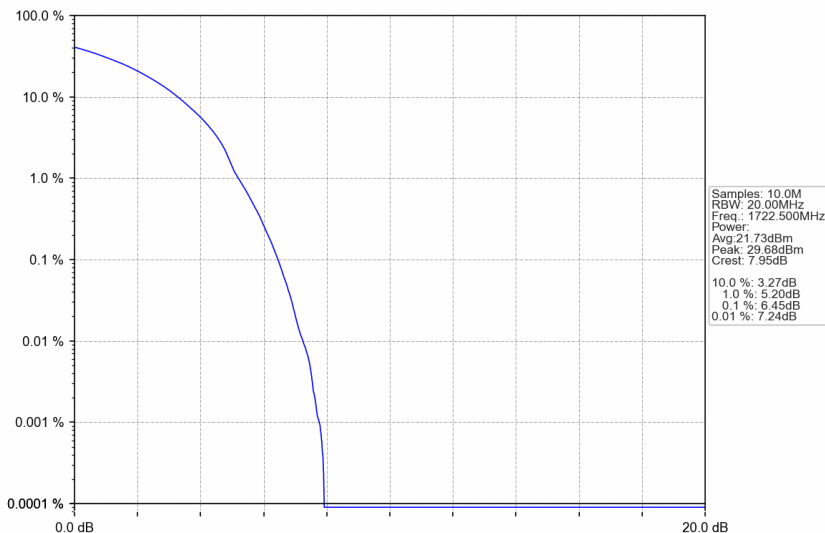
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_1767.5MHz_Outer_Full



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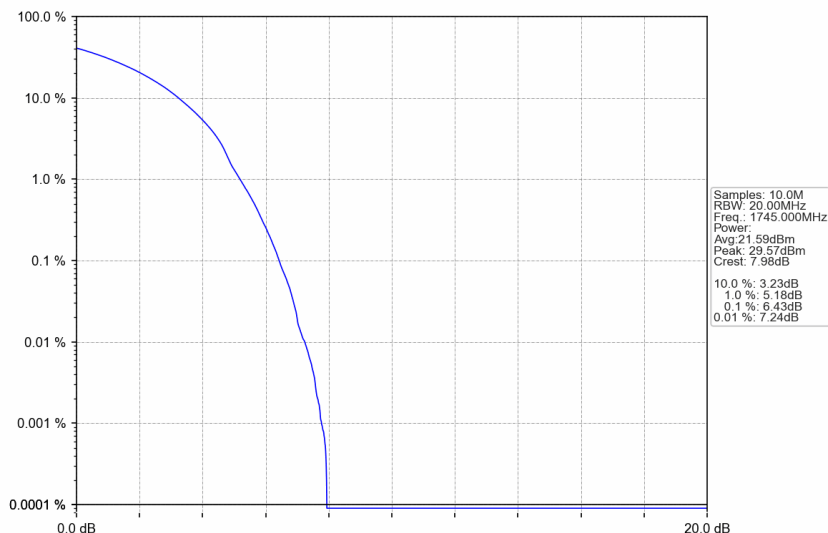
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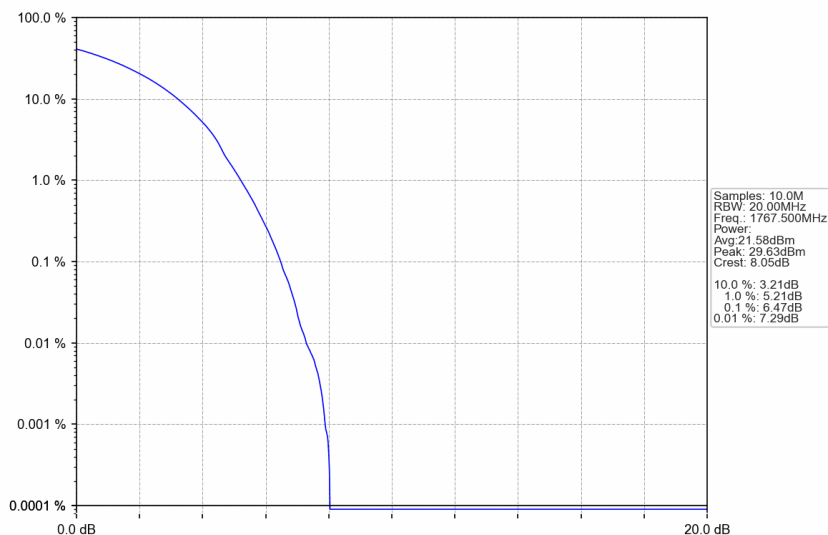
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_1745MHz_Outer_Full



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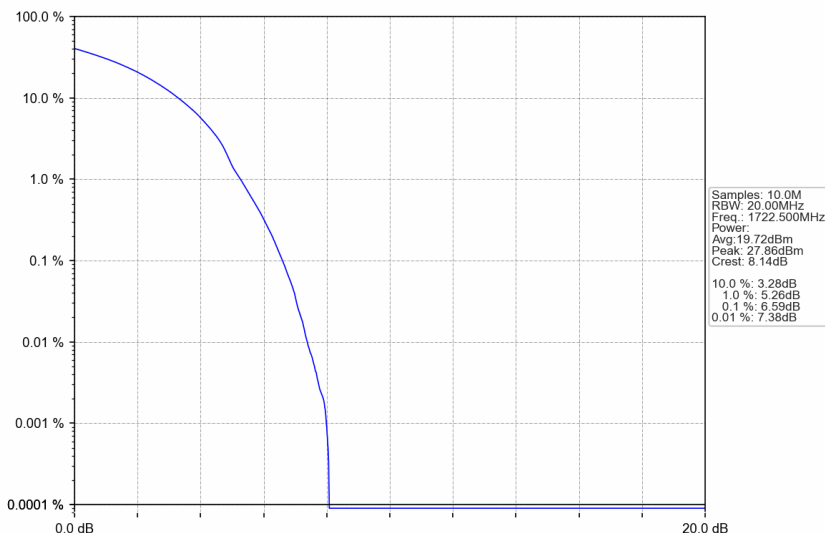


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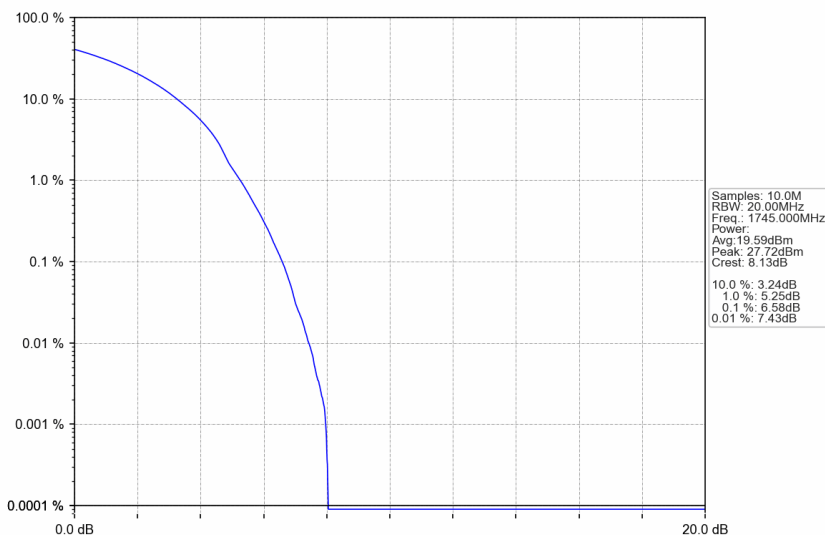
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_1722.5MHz_Outer_Full



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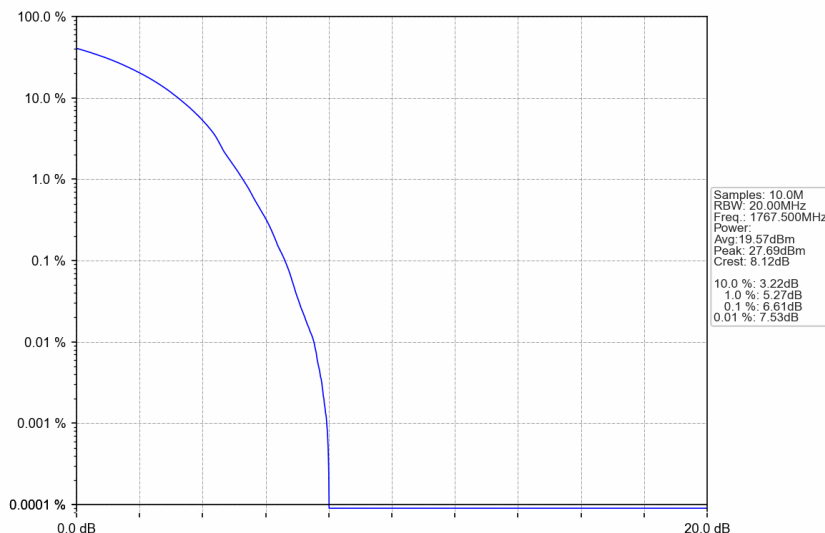


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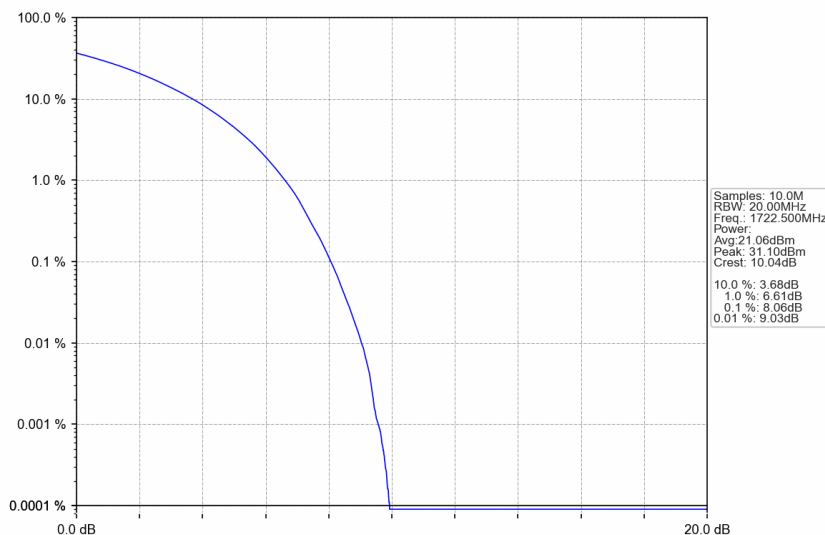
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_1767.5MHz_Outer_Full



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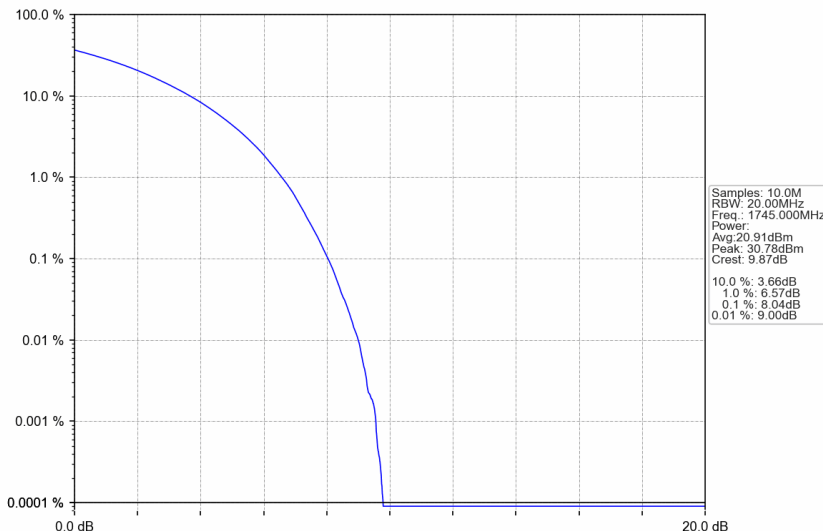
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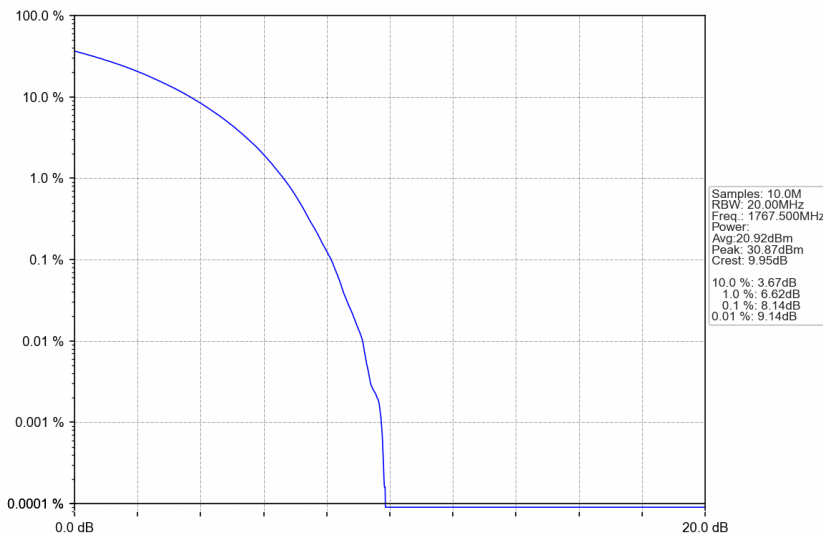
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_1745MHz_Outer_Full



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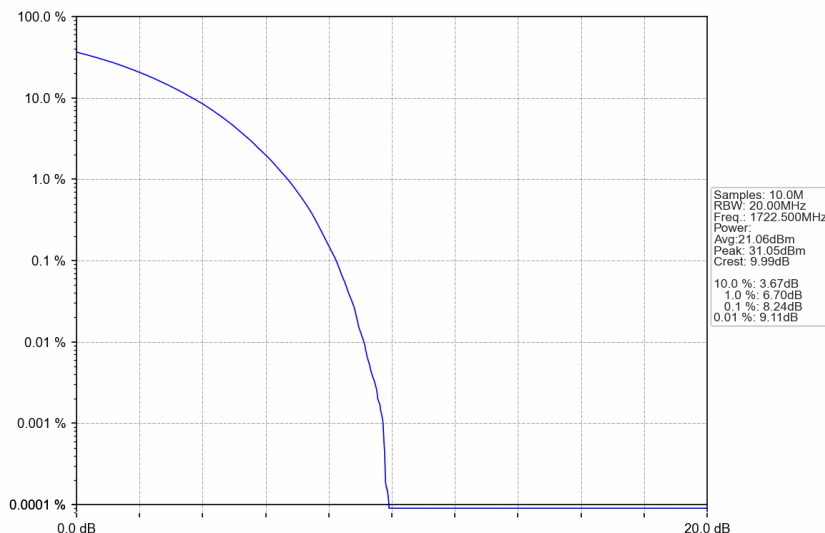
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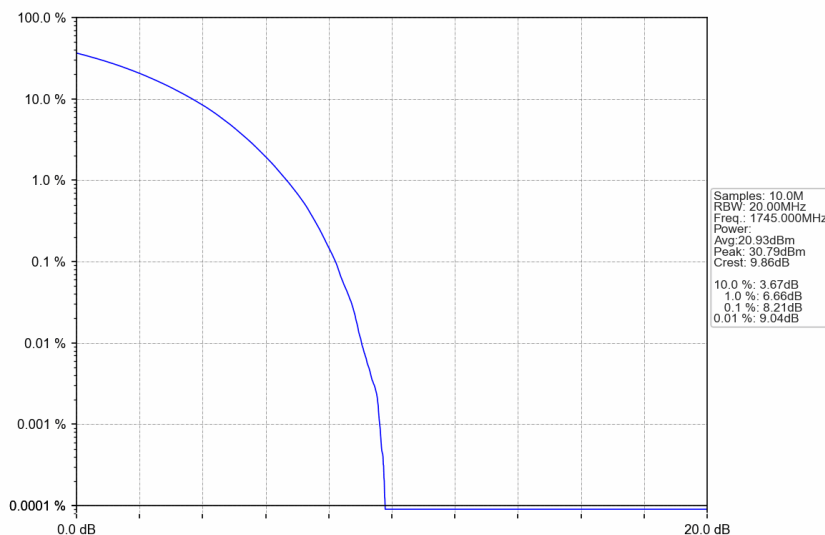
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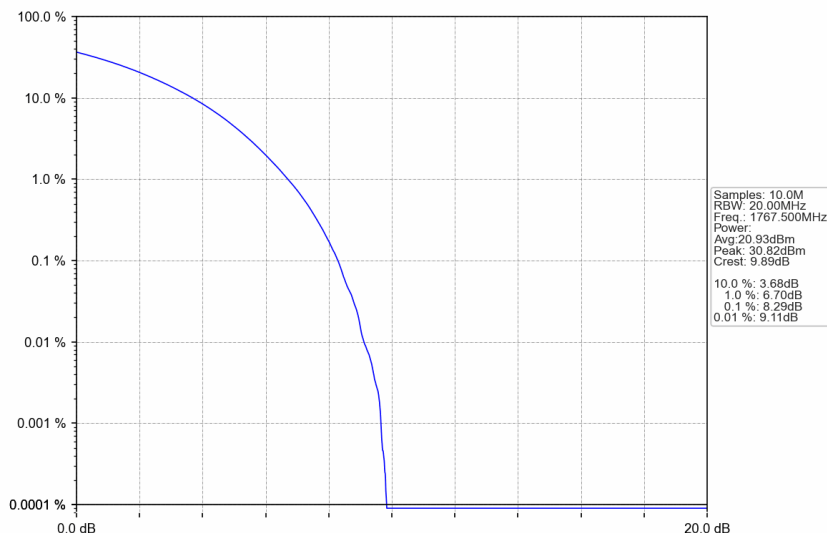
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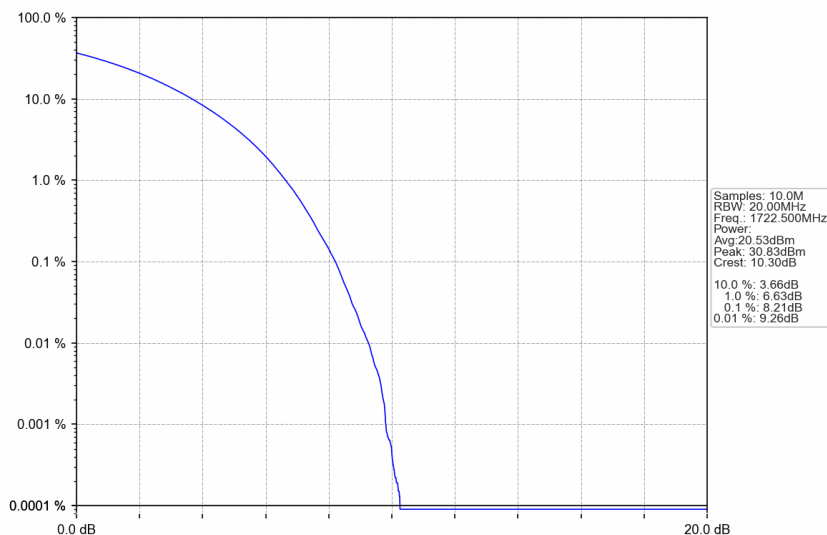
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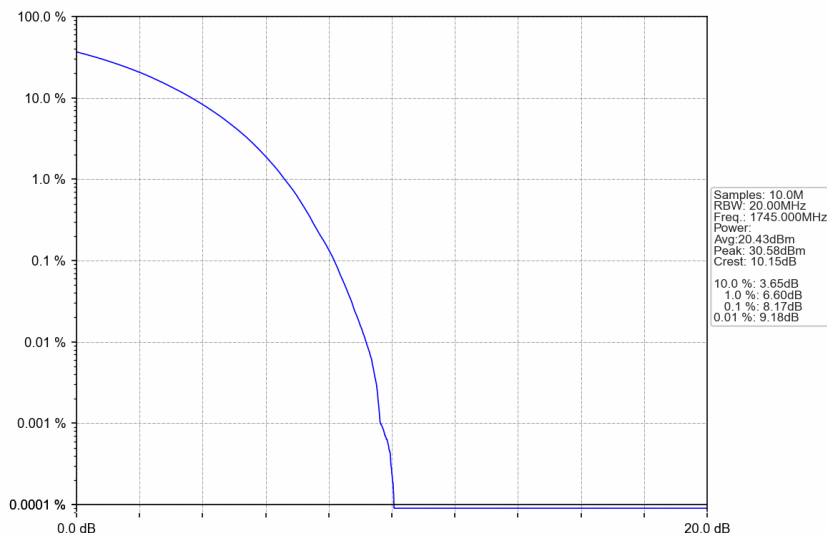


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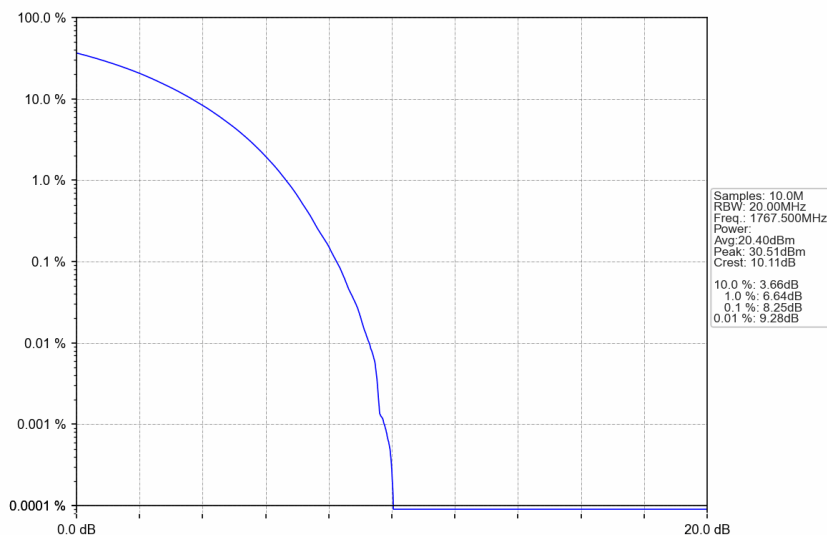
Rev.: 01

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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_1767.5MHz_Outer_Full



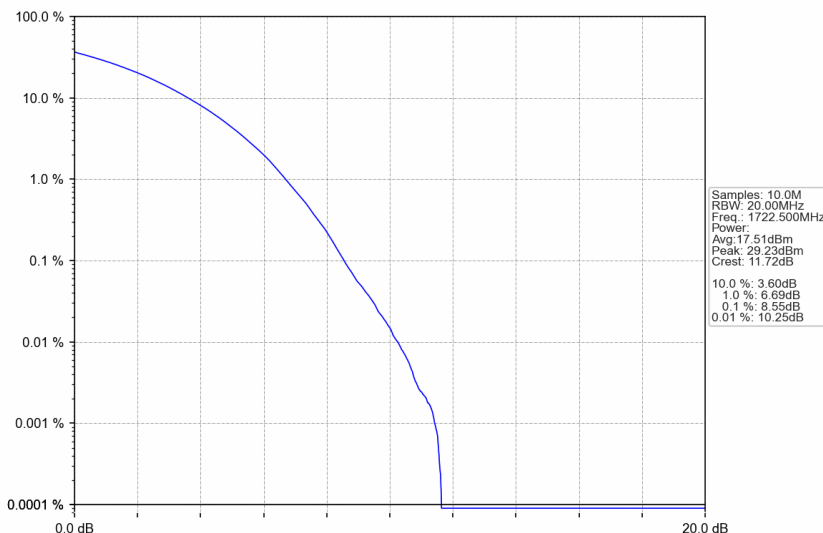
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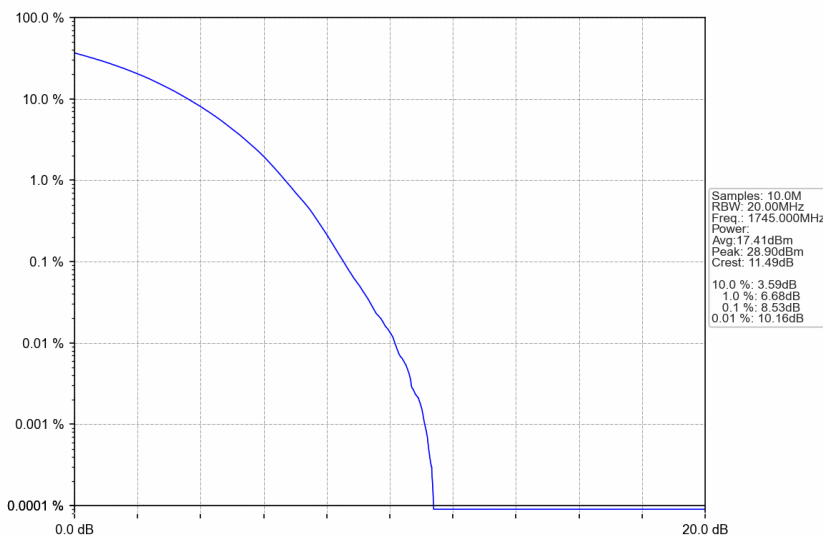
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_1722.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



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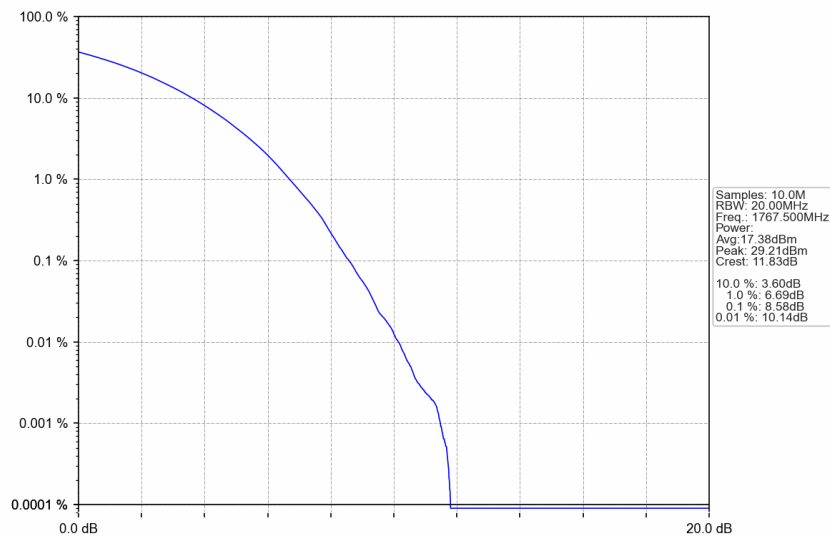
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_1767.5MHz_Outer_Full



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5.6 15k_SISO_30MHz_NTNV

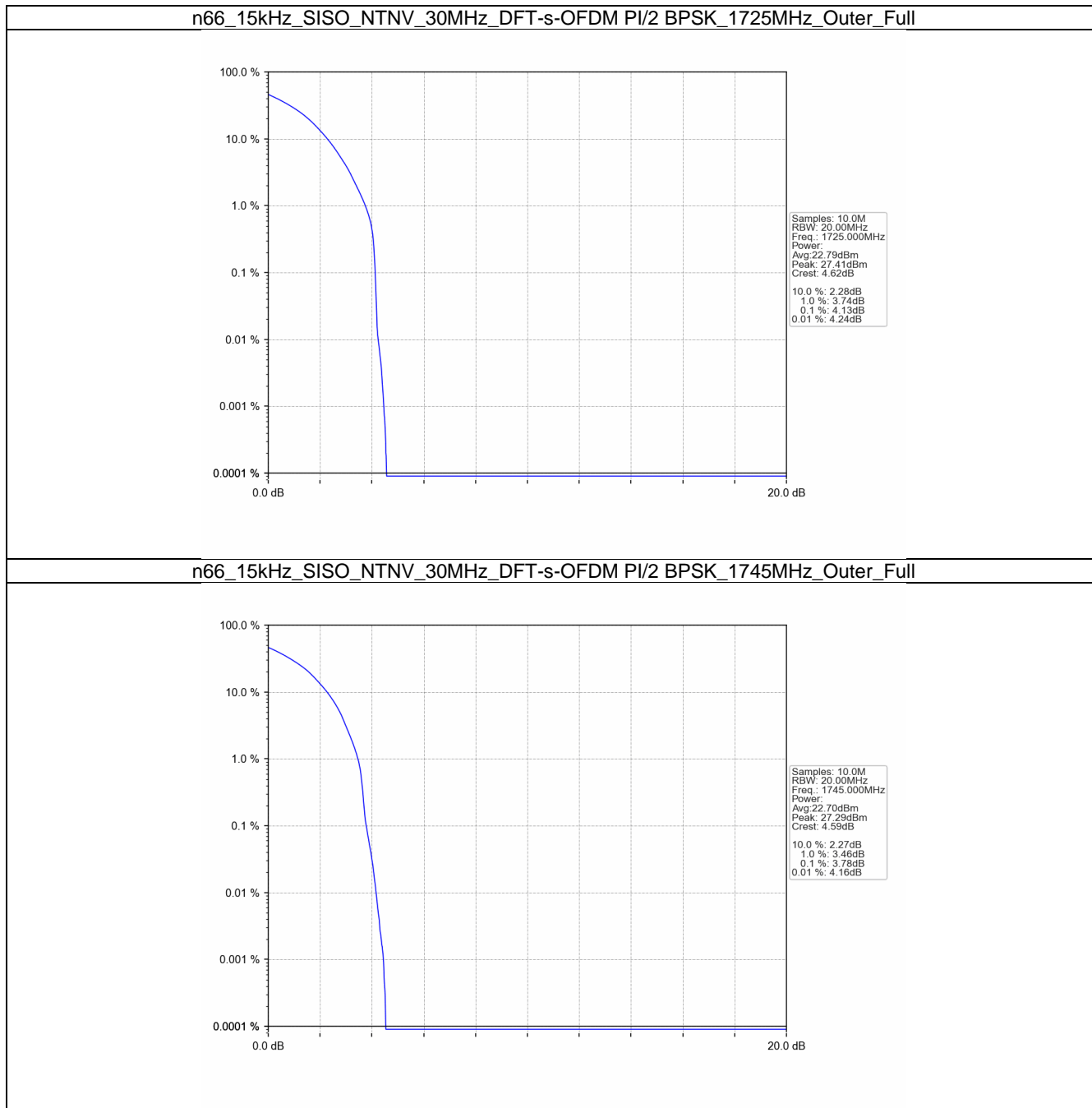
5.6.1 Test Result

Table with 8 columns: Modulation, Frequency (MHz), RB Allocation, Peak-Average Ratio (dB) (Ant1, Ant2, Sum, Limit), and Verdict. It lists test results for various modulation schemes like DFT-s-OFDM and CP-OFDM across different frequencies and RB allocations.



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5.6.2 Test Graph

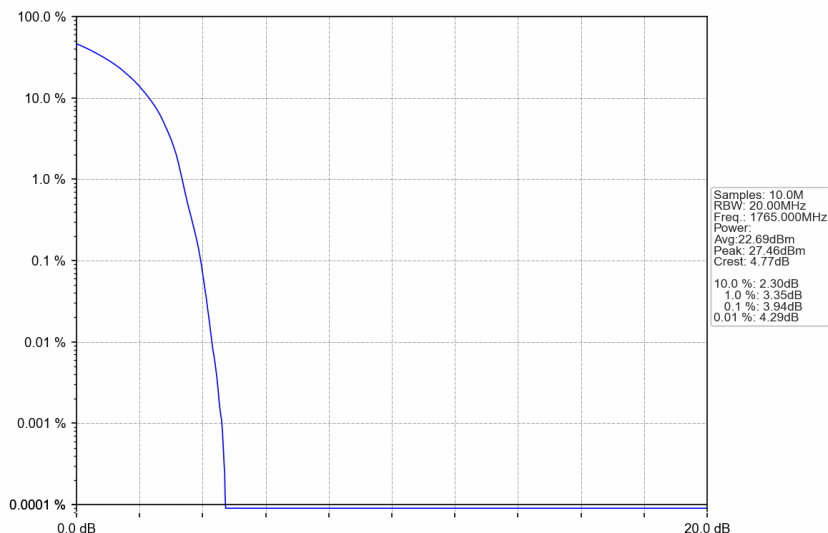


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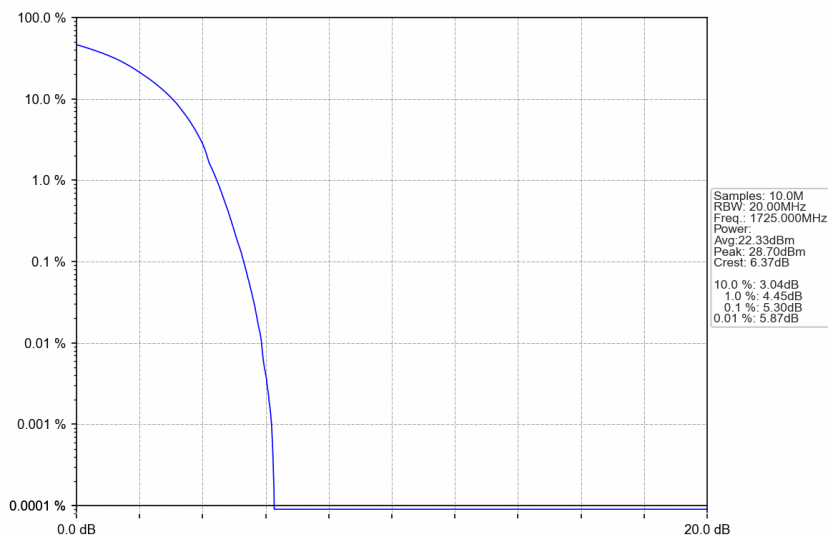
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1725MHz_Outer_Full

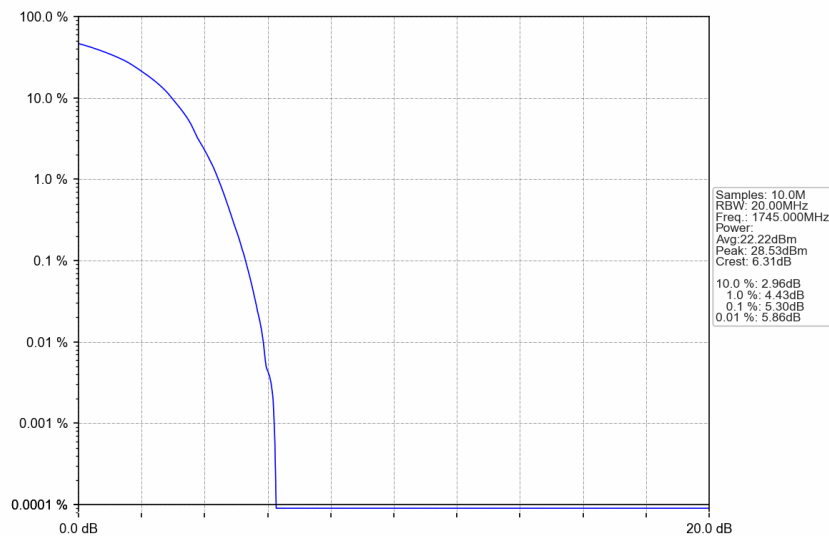


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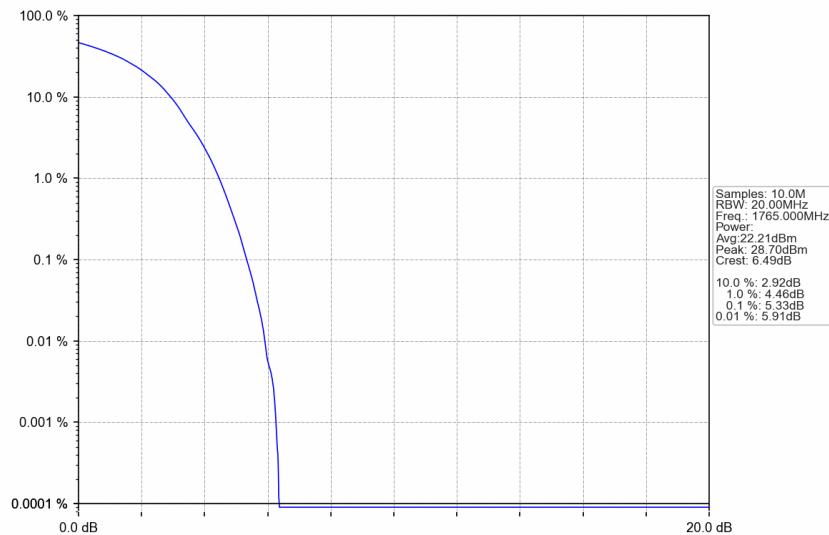
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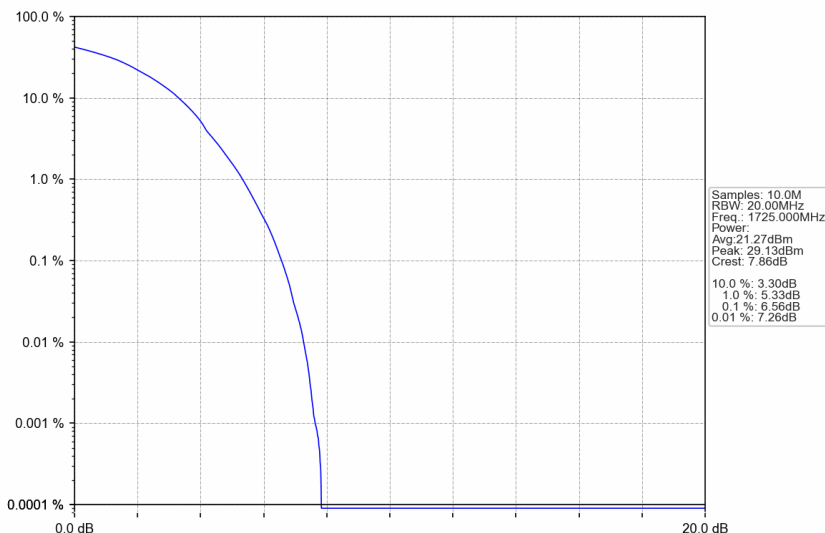
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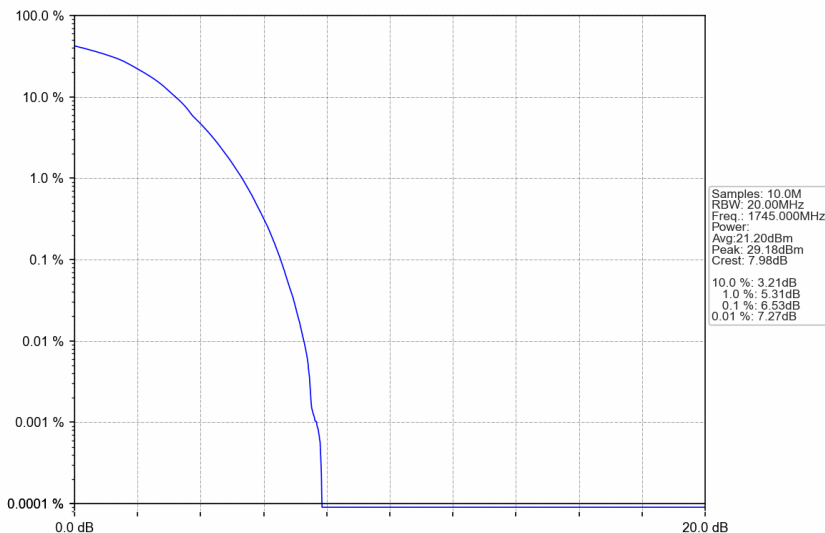
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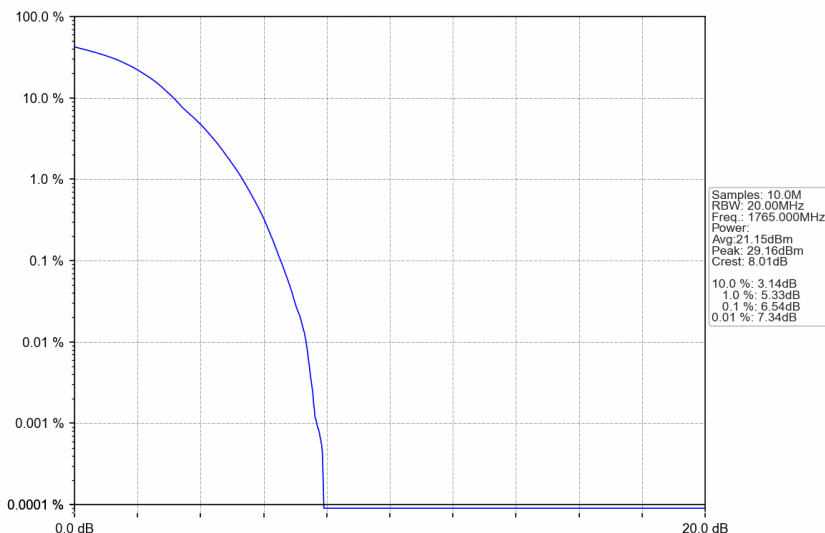


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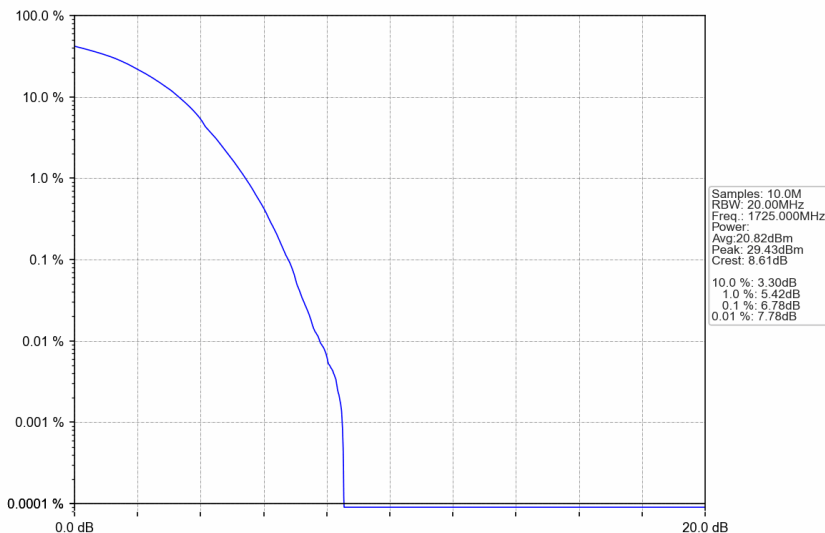
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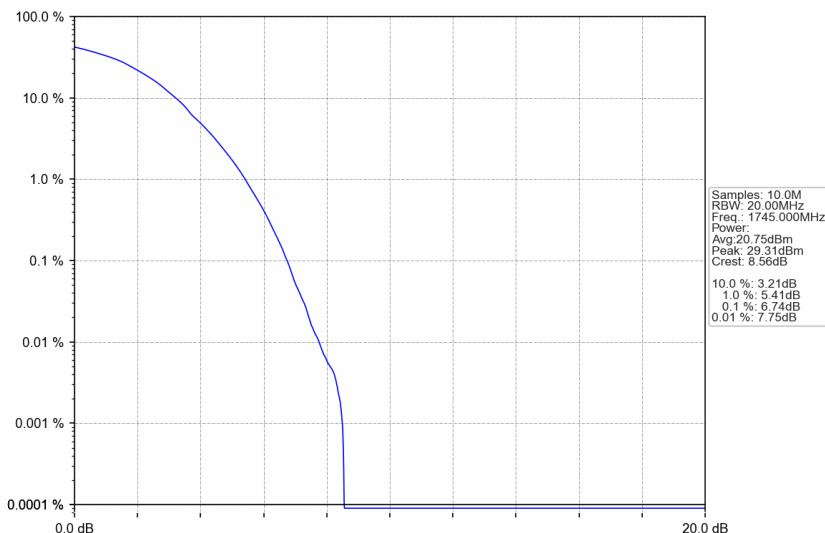


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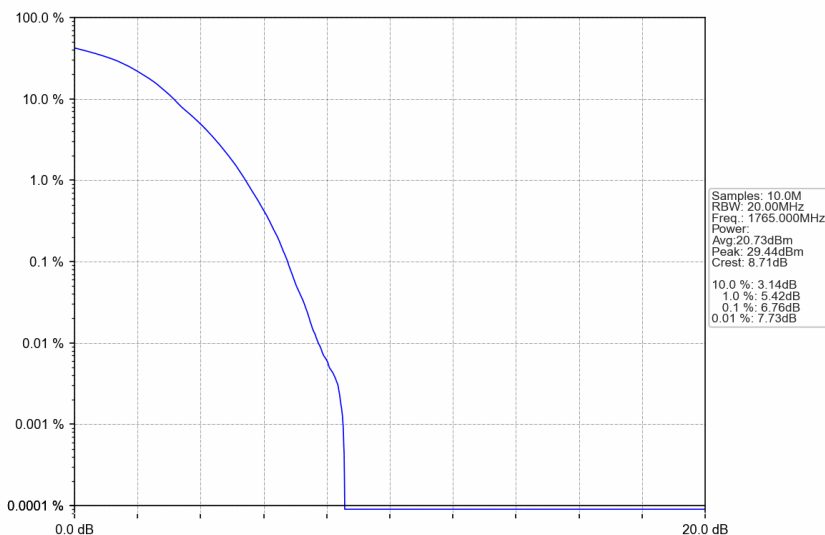
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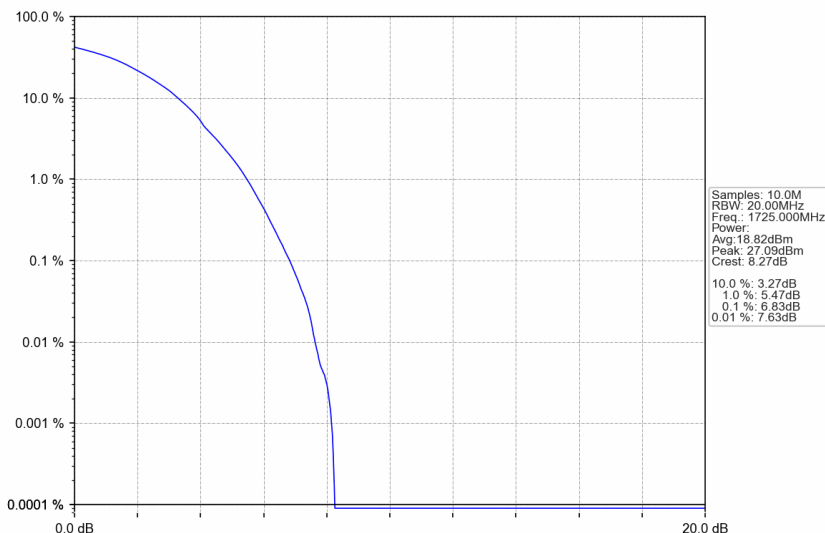


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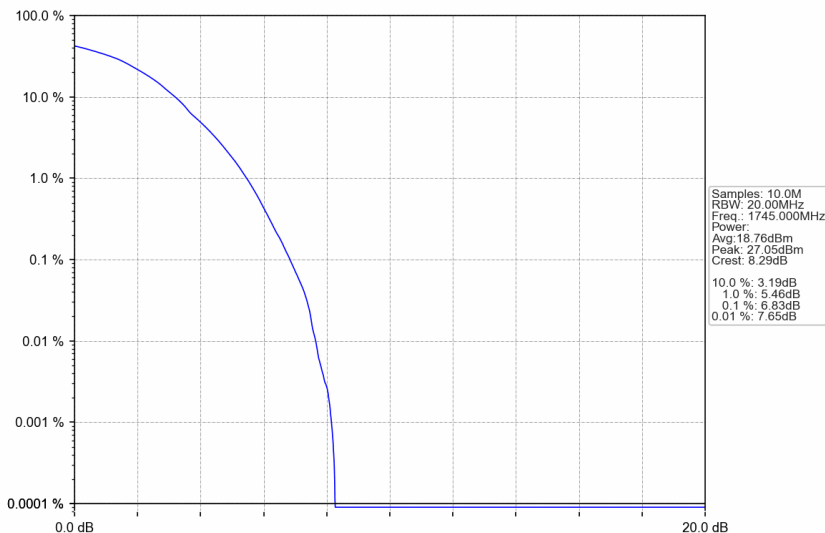
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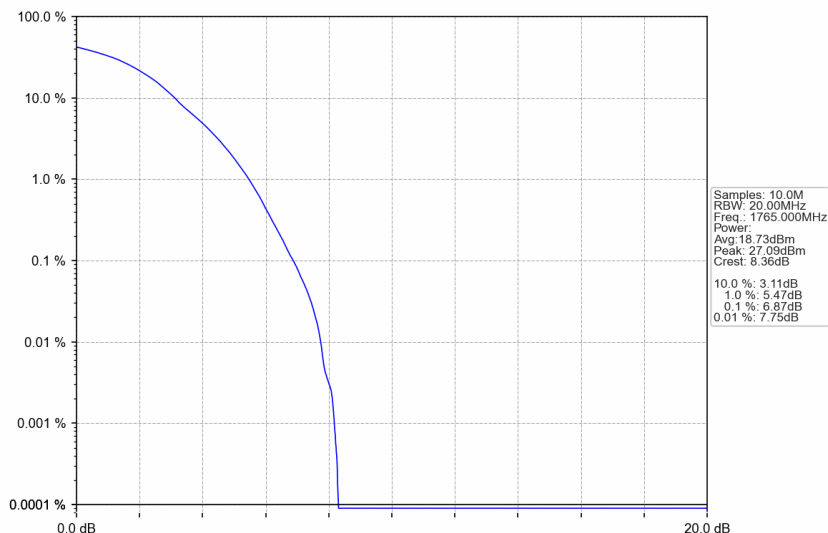


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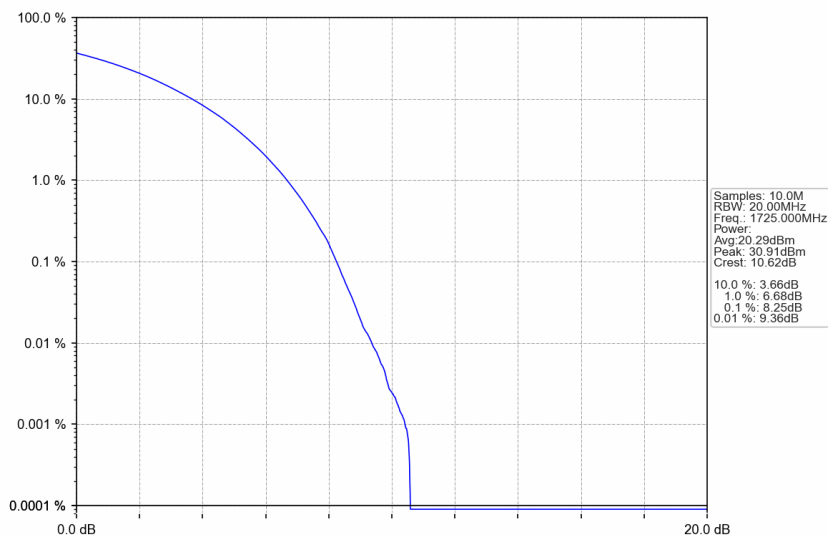
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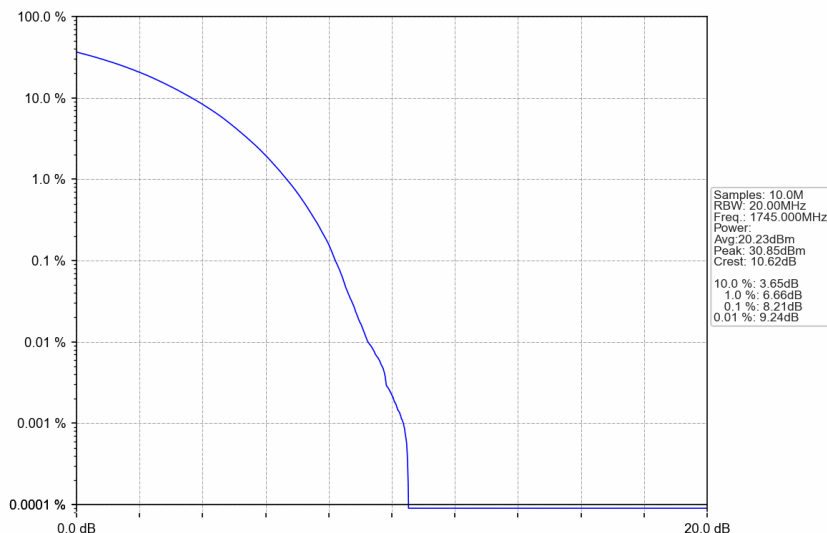
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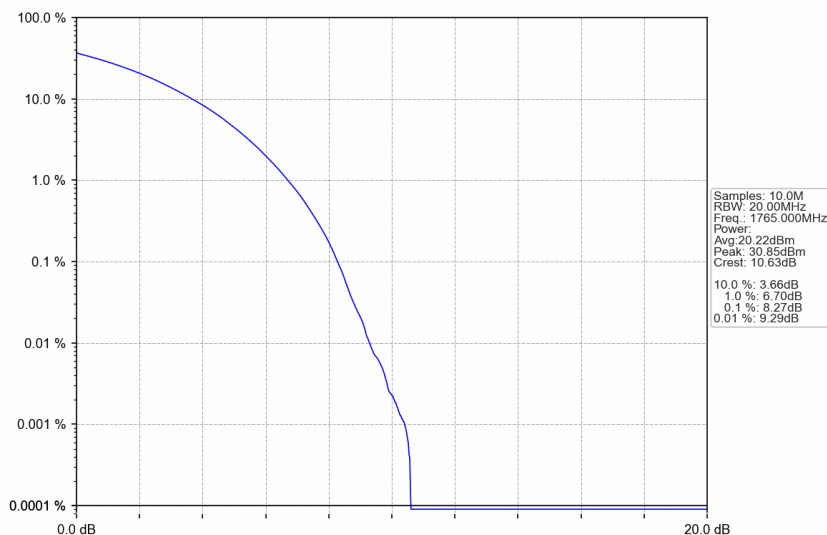
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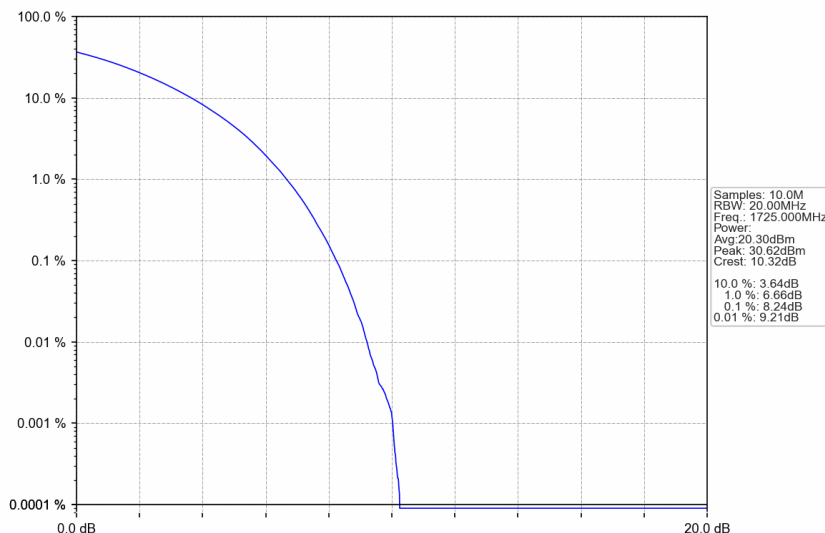
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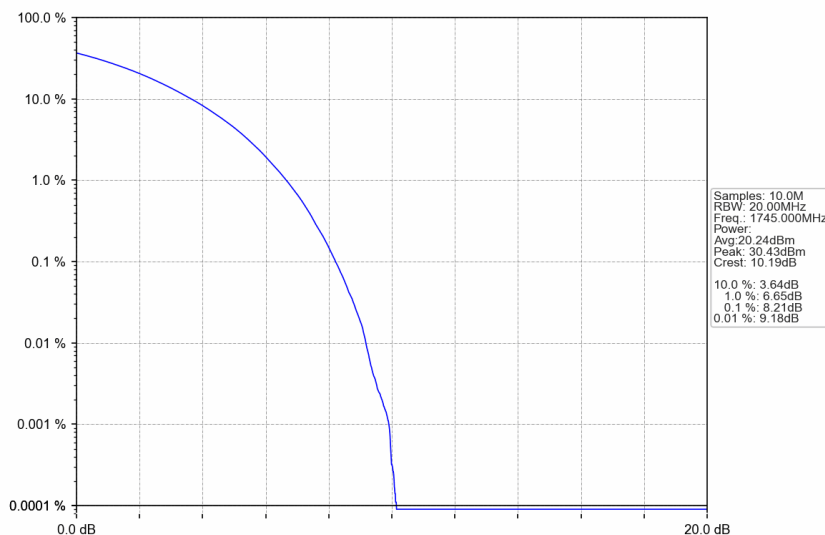
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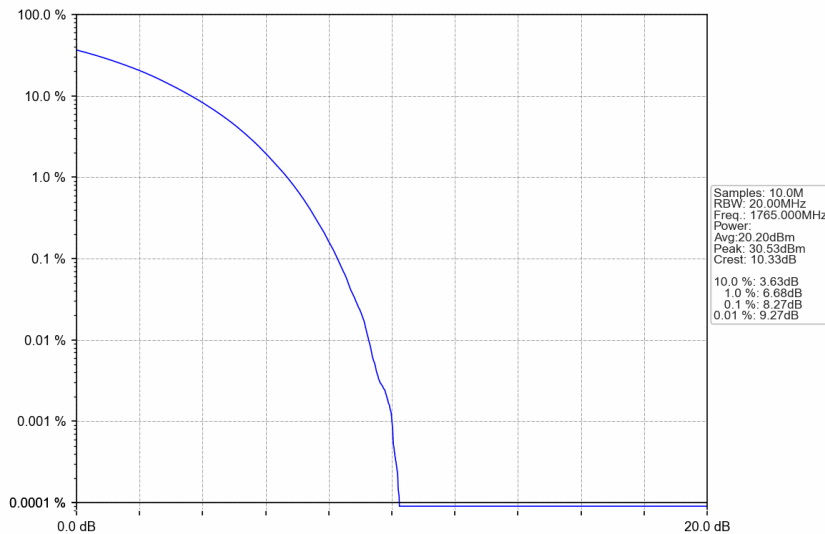
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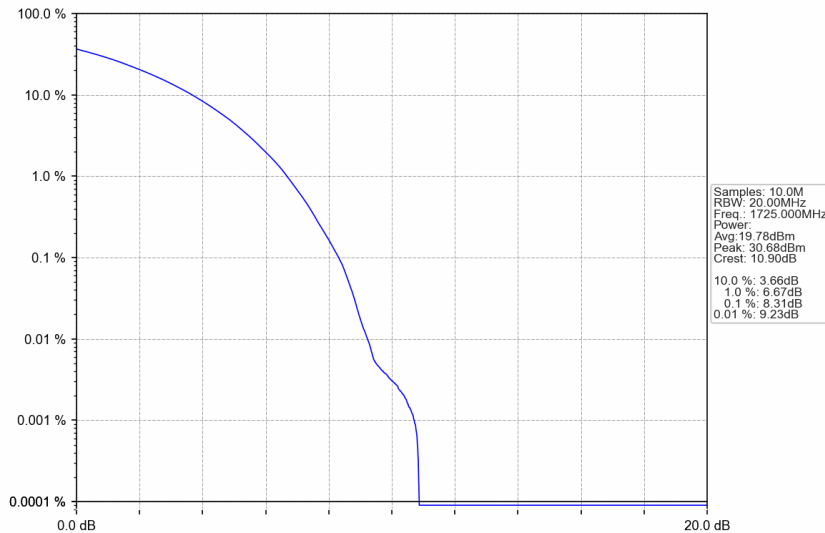
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1725MHz_Outer_Full



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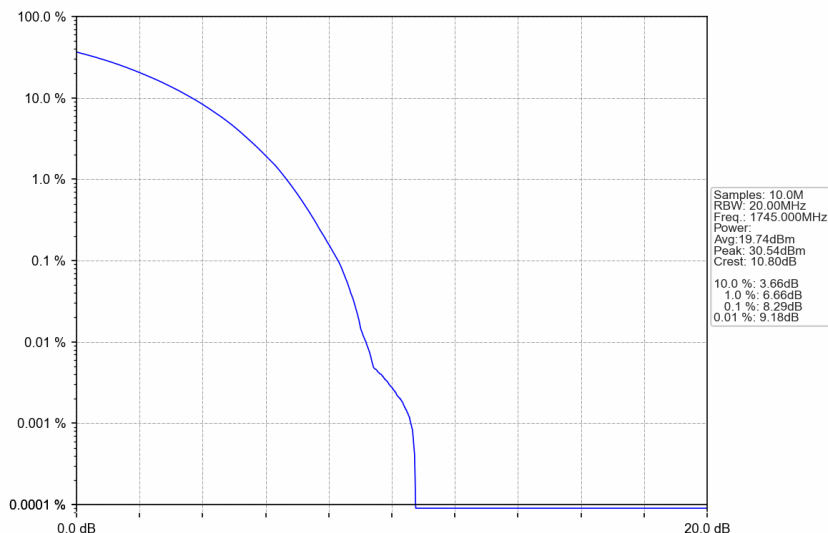
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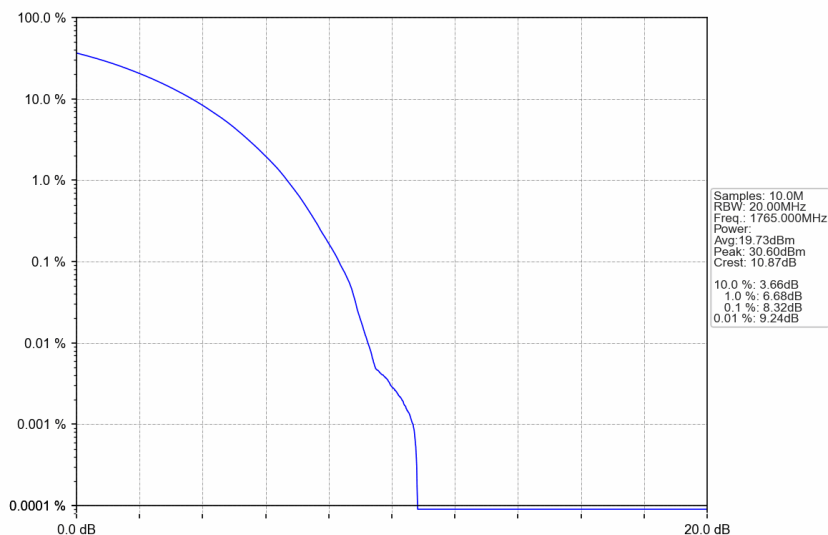
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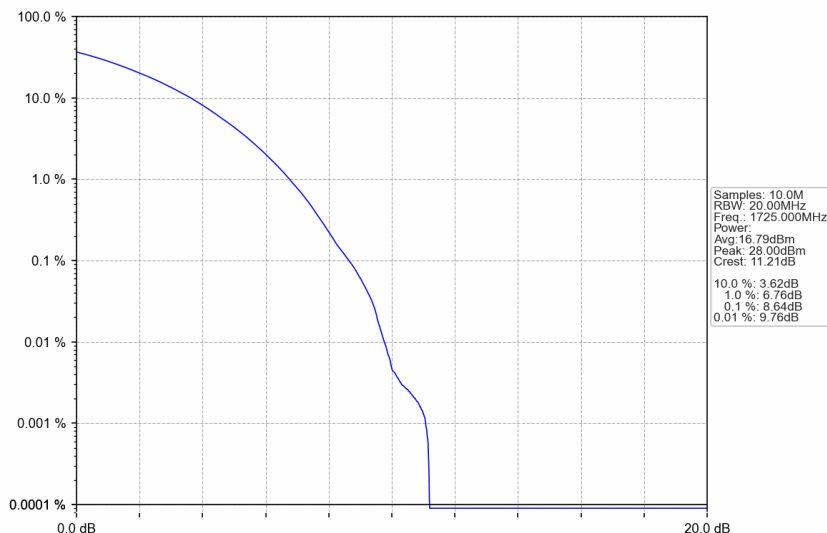


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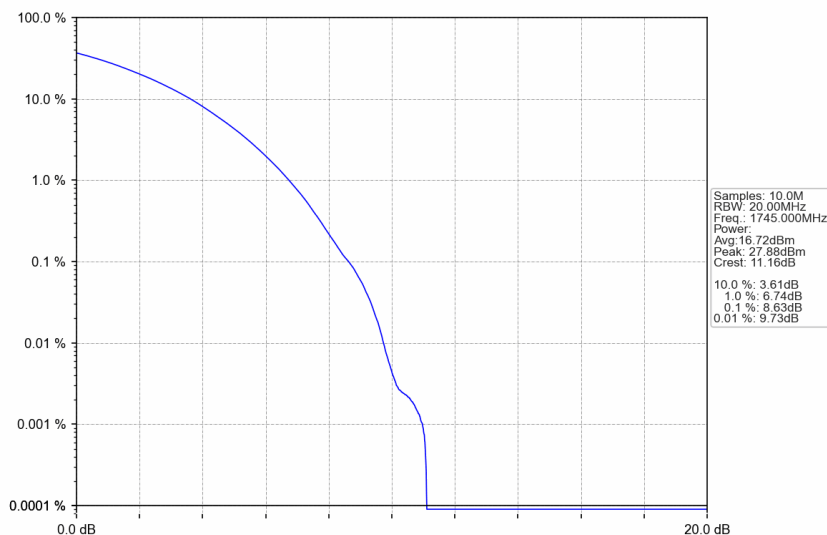
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_1725MHz_Outer_Full



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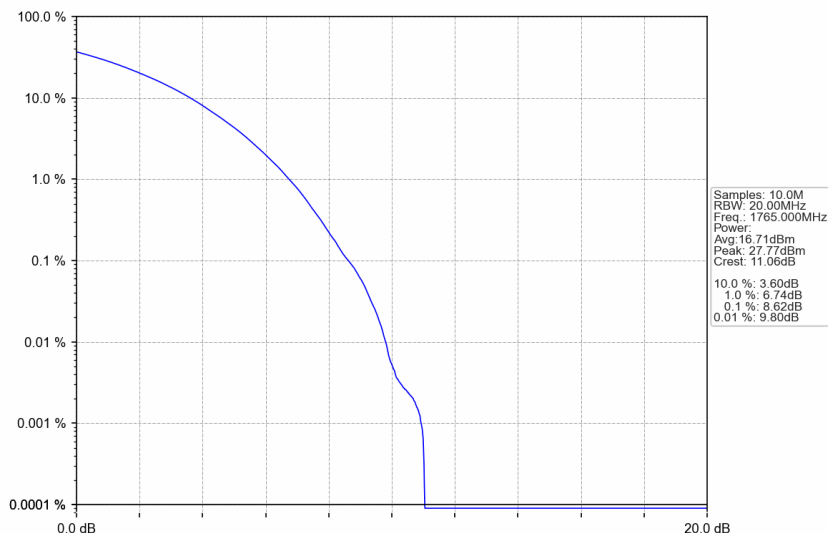


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5.7 15k_SISO_35MHz_NTNV

5.7.1 Test Result

5G NR n66 SCS=15kHz SISO 35MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1727.5	Outer_Full	4.62	/	/	<=13	Pass
	1745	Outer_Full	4.50	/	/	<=13	Pass
	1762.5	Outer_Full	4.50	/	/	<=13	Pass
DFT-s-OFDM QPSK	1727.5	Outer_Full	5.04	/	/	<=13	Pass
	1745	Outer_Full	5.00	/	/	<=13	Pass
	1762.5	Outer_Full	5.10	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1727.5	Outer_Full	6.34	/	/	<=13	Pass
	1745	Outer_Full	6.29	/	/	<=13	Pass
	1762.5	Outer_Full	6.35	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1727.5	Outer_Full	6.66	/	/	<=13	Pass
	1745	Outer_Full	6.62	/	/	<=13	Pass
	1762.5	Outer_Full	6.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1727.5	Outer_Full	6.64	/	/	<=13	Pass
	1745	Outer_Full	6.64	/	/	<=13	Pass
	1762.5	Outer_Full	6.71	/	/	<=13	Pass
CP-OFDM QPSK	1727.5	Outer_Full	8.30	/	/	<=13	Pass
	1745	Outer_Full	8.27	/	/	<=13	Pass
	1762.5	Outer_Full	8.31	/	/	<=13	Pass
CP-OFDM 16 QAM	1727.5	Outer_Full	8.30	/	/	<=13	Pass
	1745	Outer_Full	8.25	/	/	<=13	Pass
	1762.5	Outer_Full	8.30	/	/	<=13	Pass
CP-OFDM 64 QAM	1727.5	Outer_Full	8.27	/	/	<=13	Pass
	1745	Outer_Full	8.24	/	/	<=13	Pass
	1762.5	Outer_Full	8.30	/	/	<=13	Pass
CP-OFDM 256 QAM	1727.5	Outer_Full	8.55	/	/	<=13	Pass
	1745	Outer_Full	8.54	/	/	<=13	Pass
	1762.5	Outer_Full	8.56	/	/	<=13	Pass

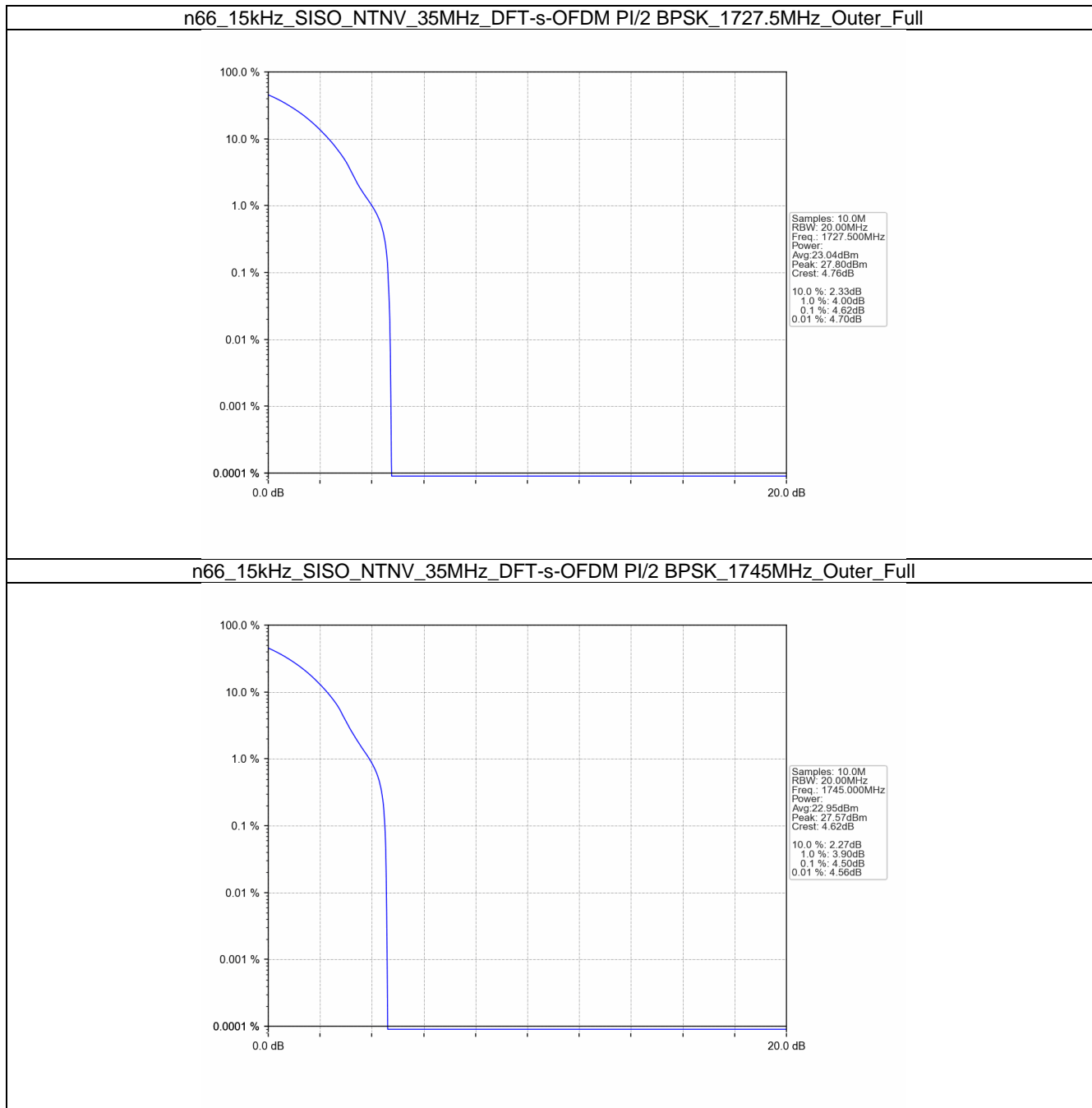


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5.7.2 Test Graph

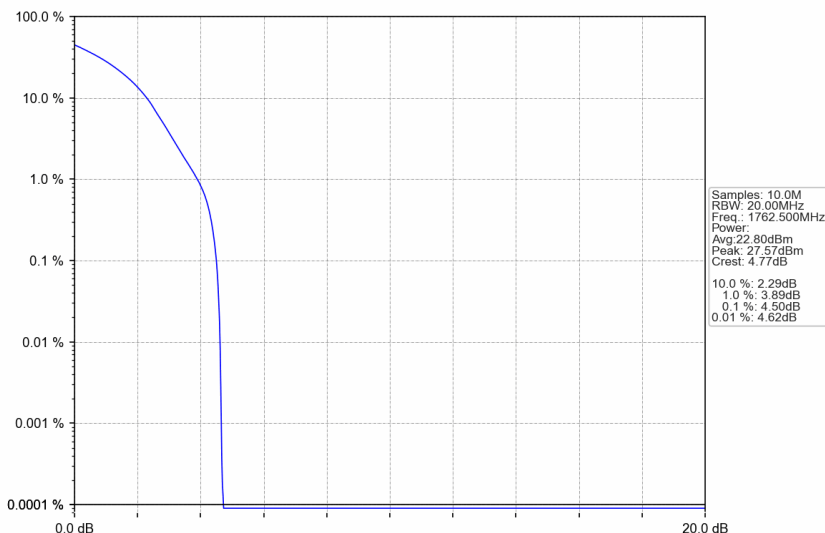


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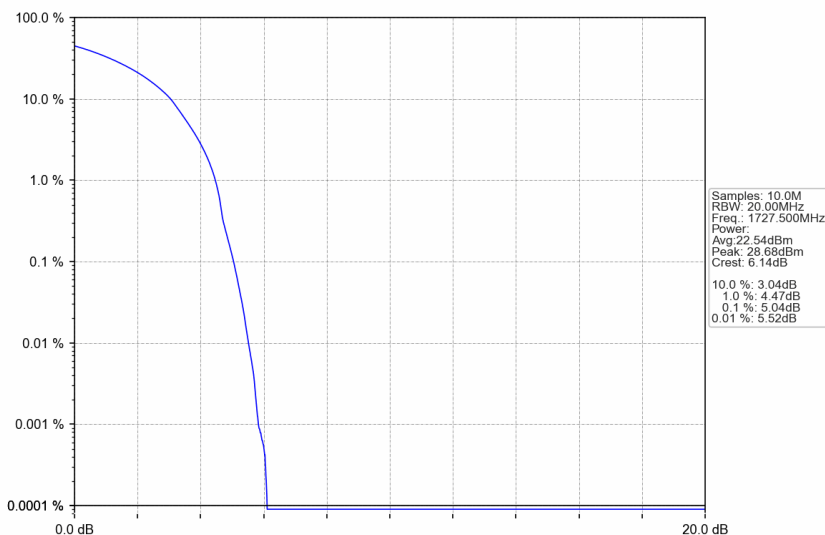
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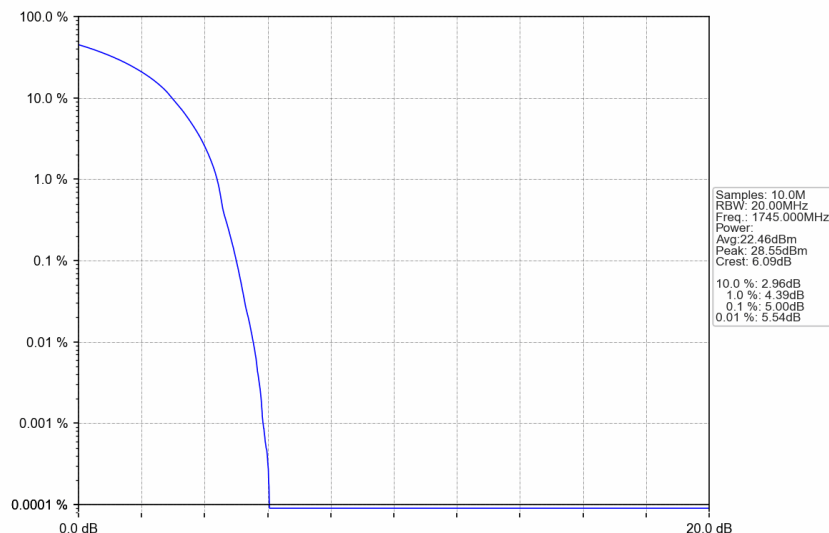
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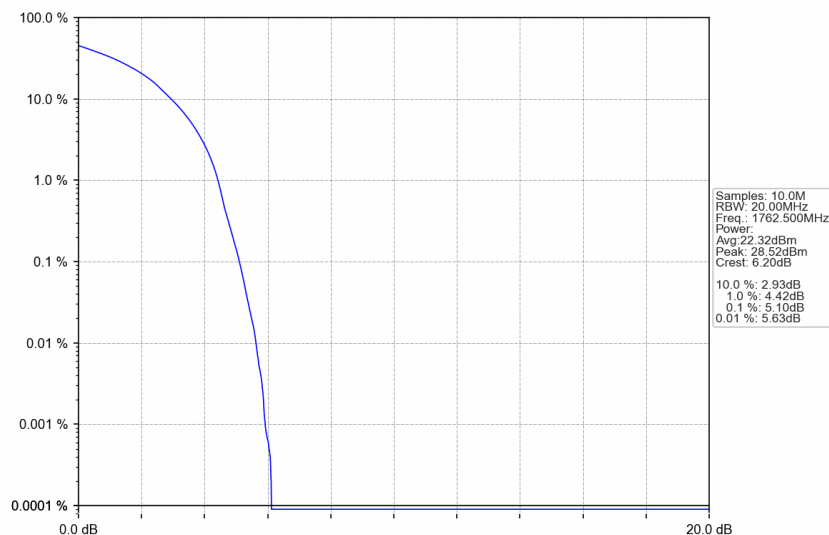
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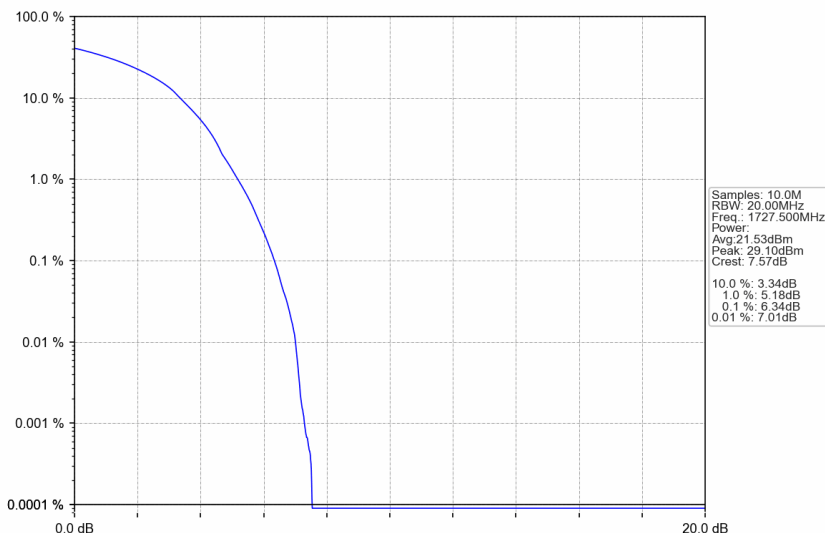


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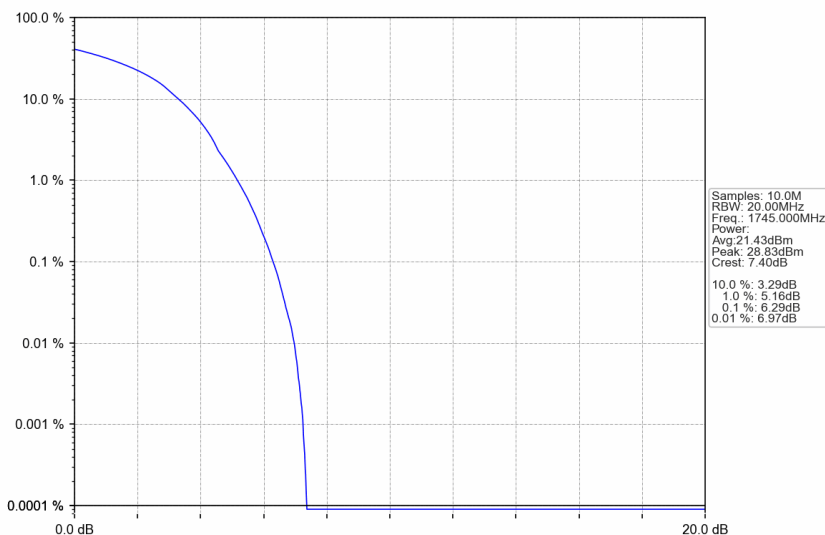
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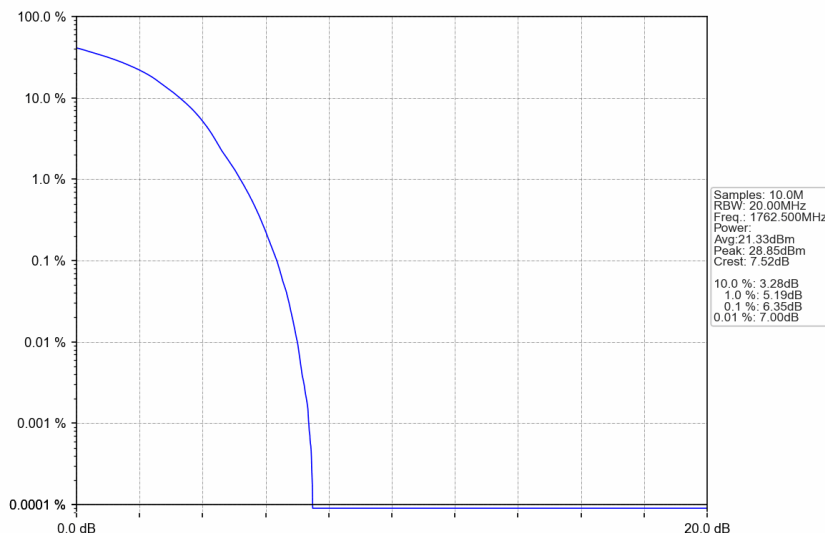


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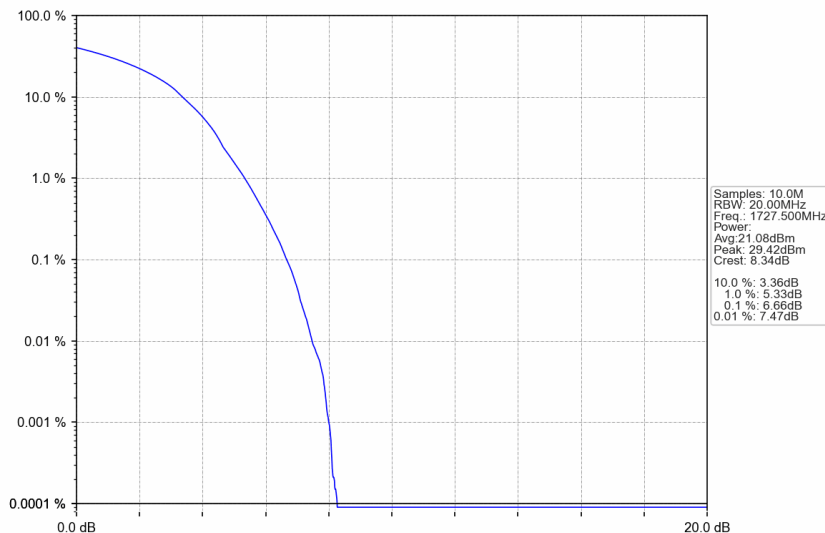
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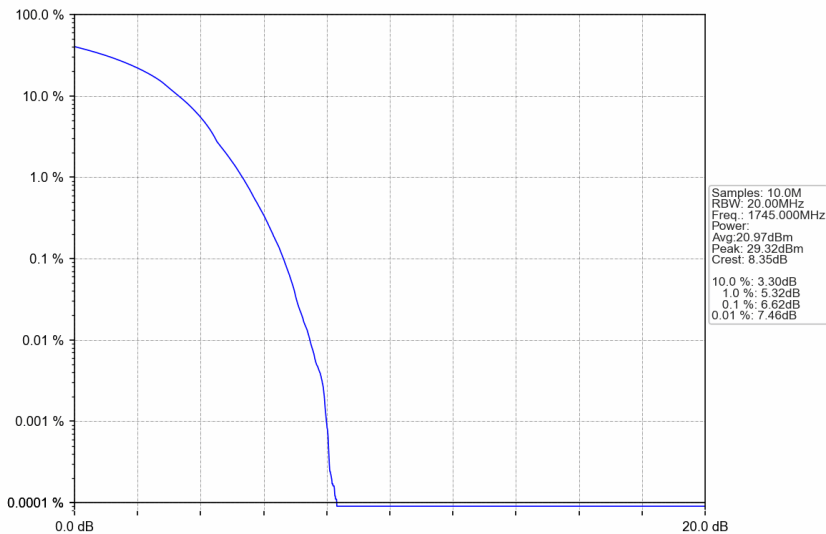
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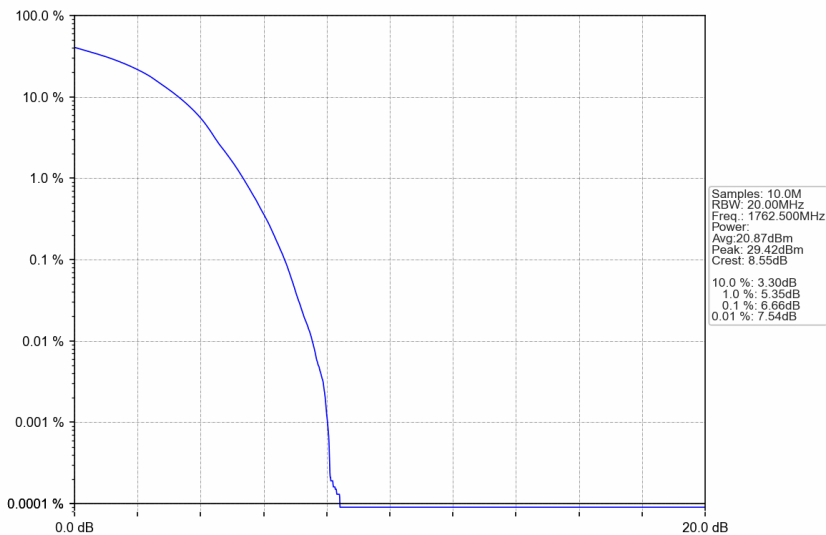
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n66_15kHz_SISO_NTNV_35MHz_DFT-s-OFDM 64 QAM_1762.5MHz_Outer_Full



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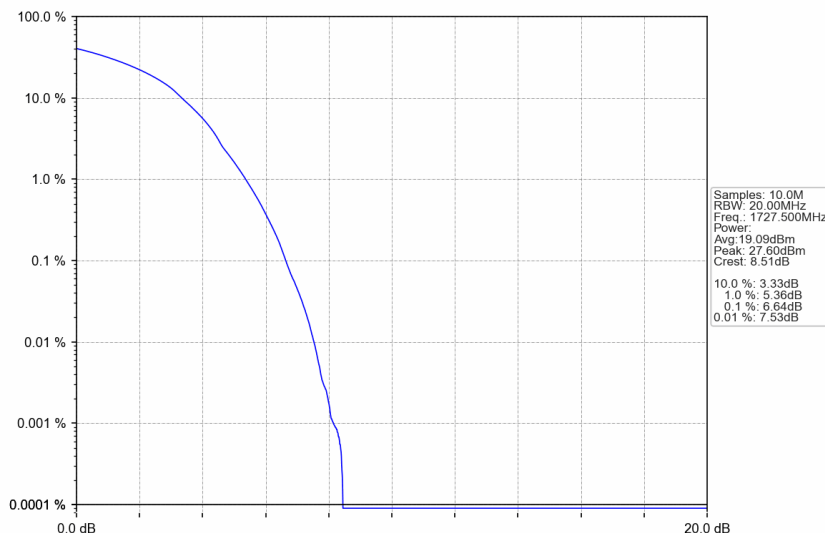


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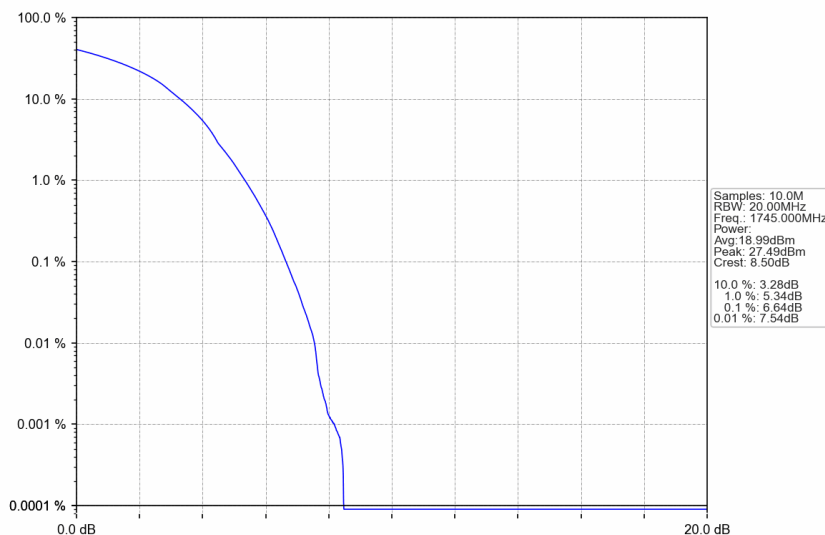
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n66_15kHz_SISO_NTNV_35MHz_DFT-s-OFDM 256 QAM_1727.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_35MHz_DFT-s-OFDM 256 QAM_1745MHz_Outer_Full



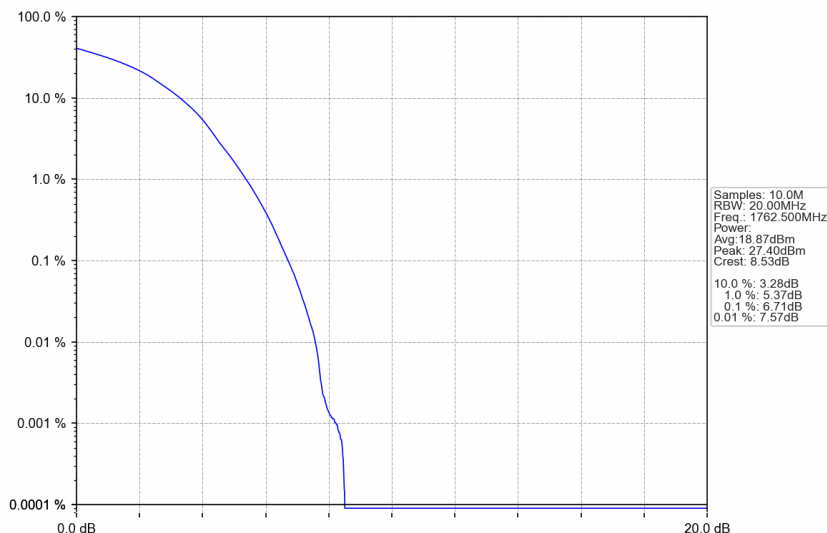
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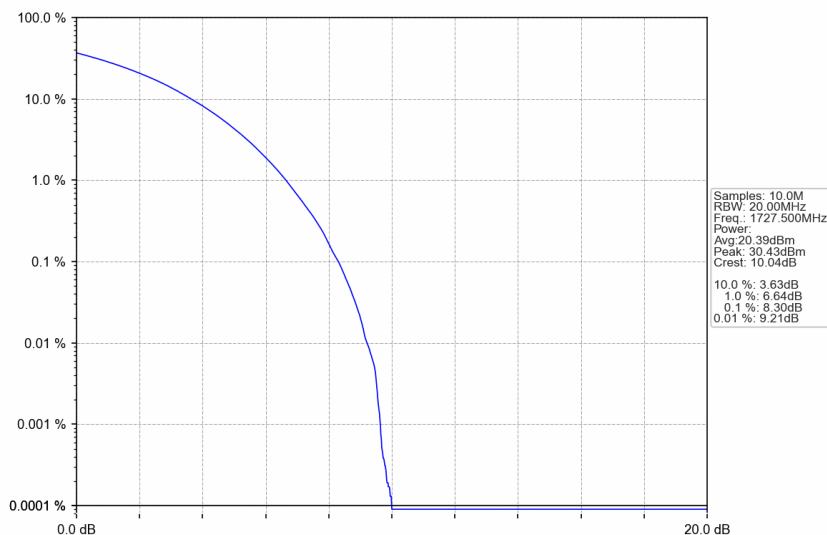
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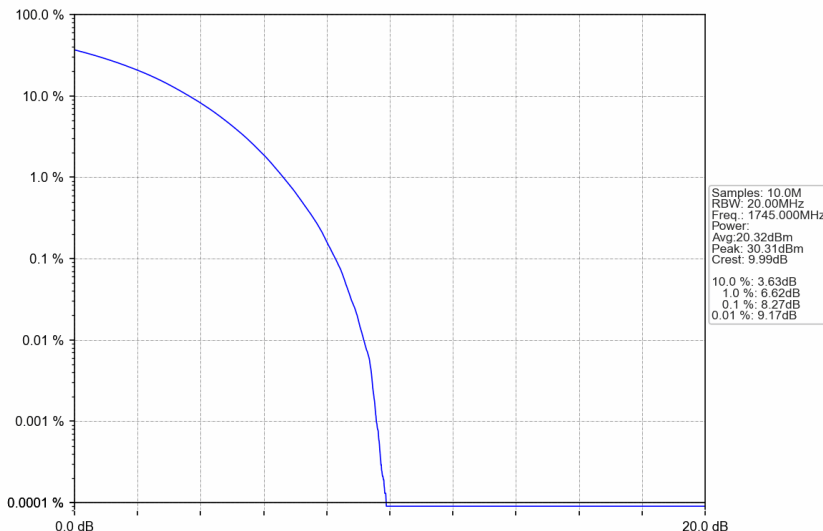
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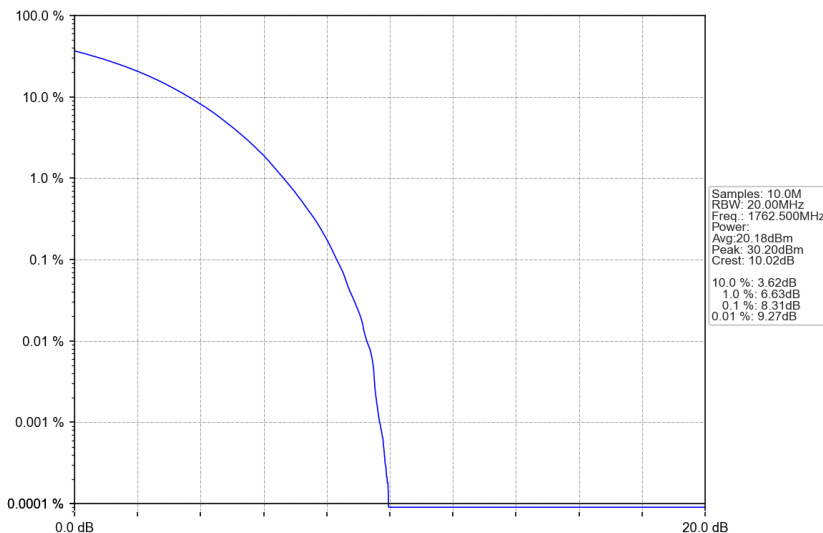
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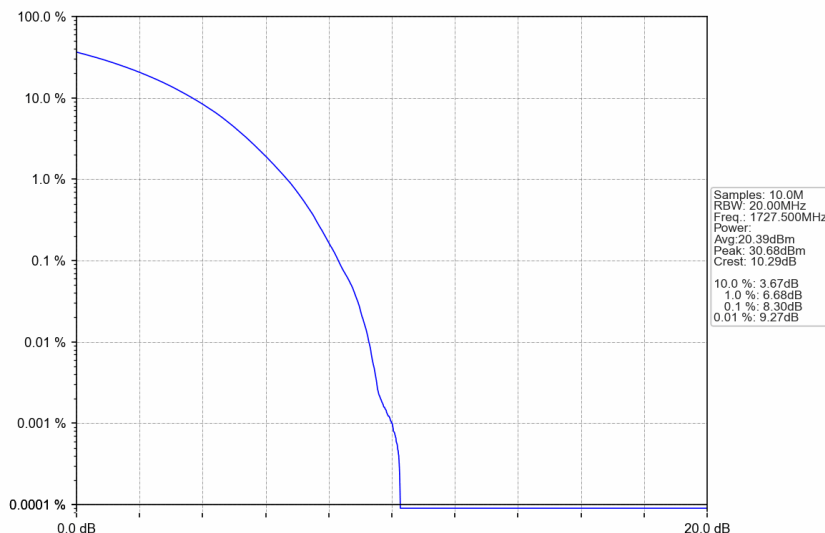


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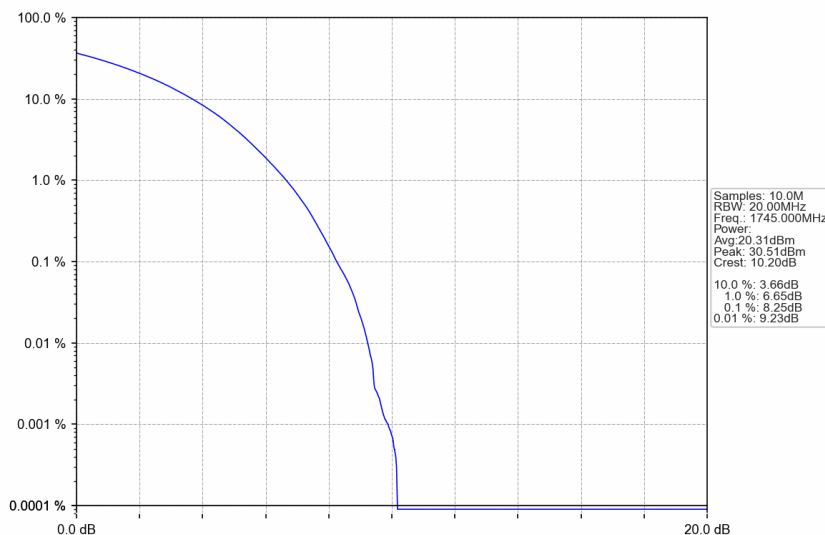
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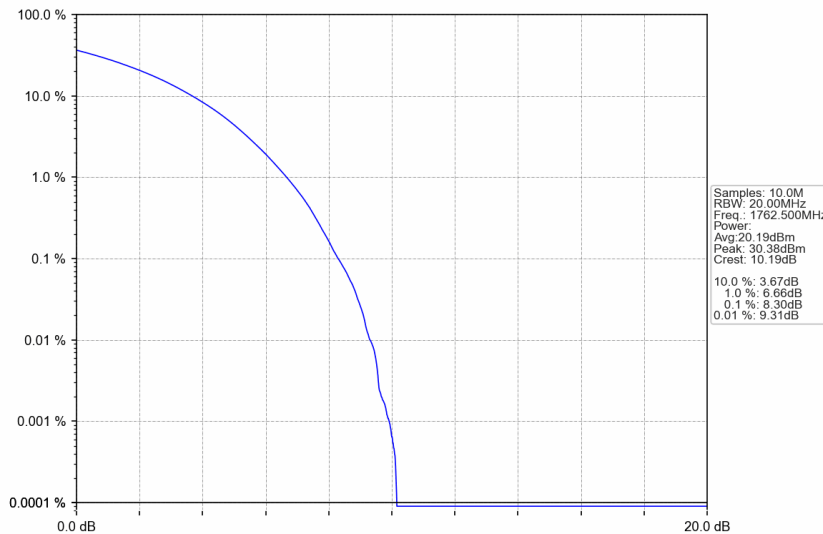


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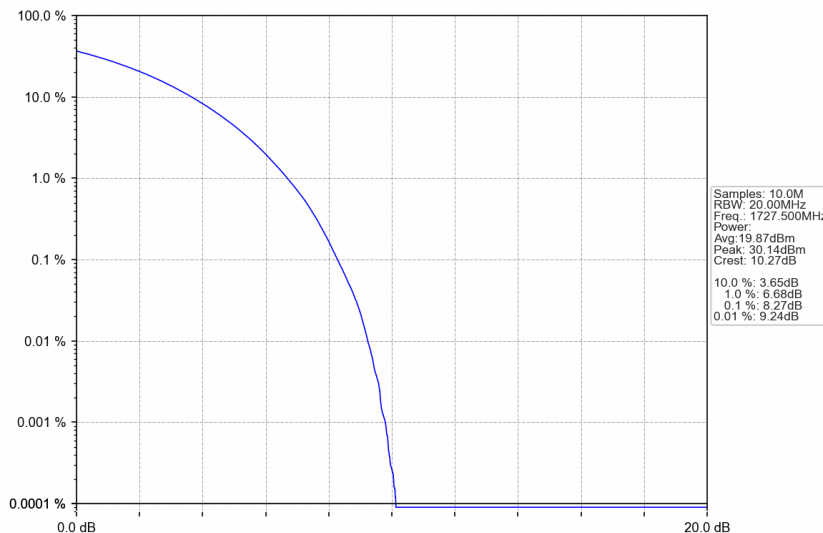
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n66_15kHz_SISO_NTNV_35MHz_CP-OFDM 16 QAM_1762.5MHz_Outer_Full



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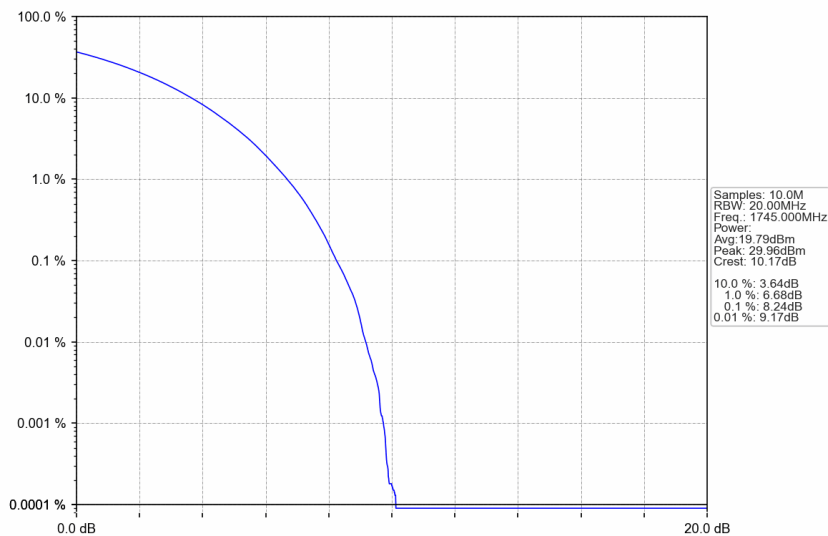
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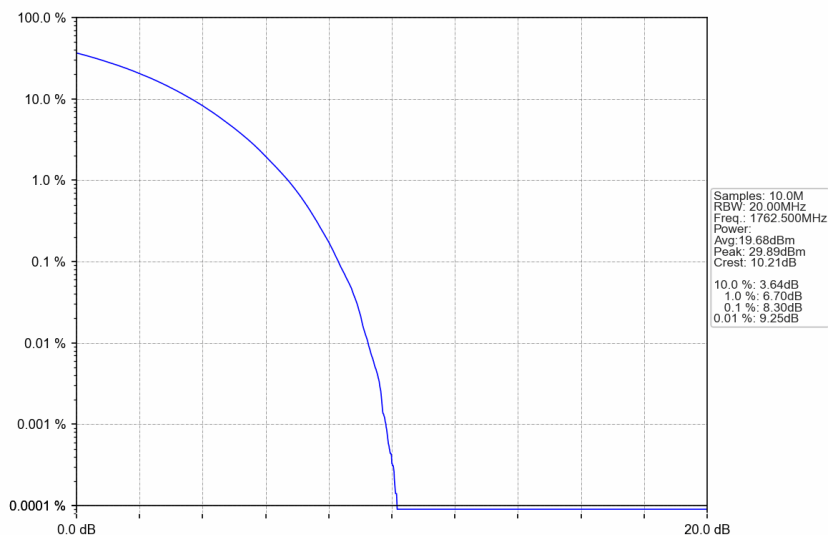
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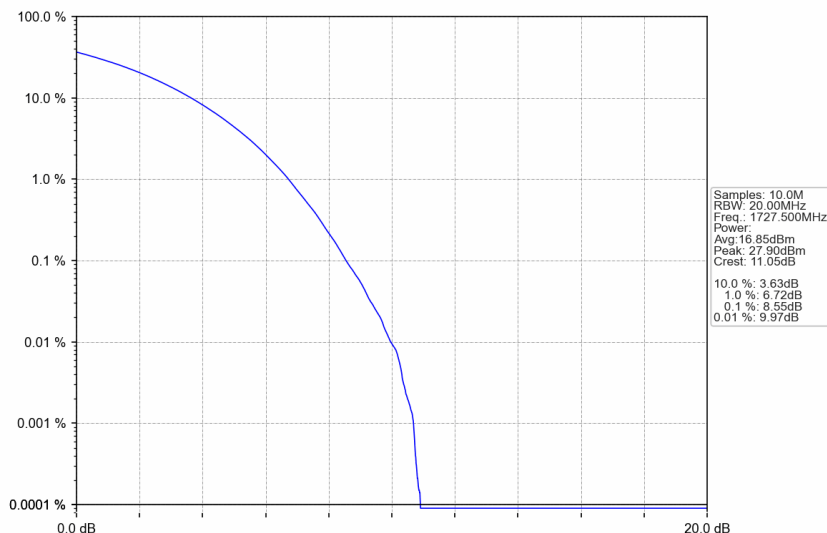
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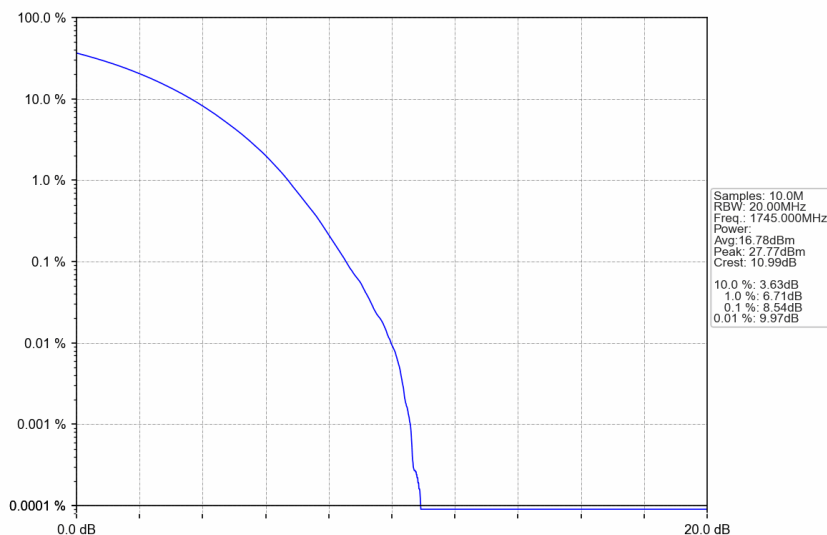
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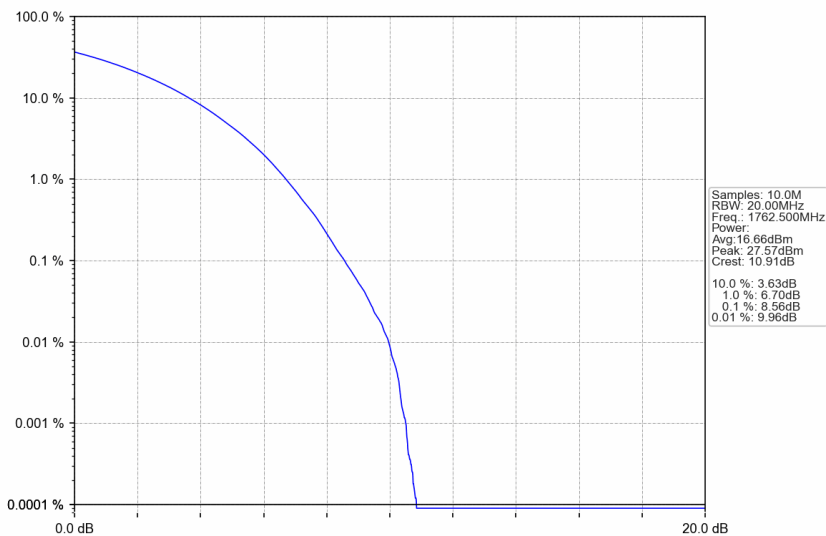


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5.8 15k_SISO_40MHz_NTNV

5.8.1 Test Result

5G NR n66 SCS=15kHz SISO 40MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1730	Outer_Full	4.49	/	/	<=13	Pass
	1745	Outer_Full	4.44	/	/	<=13	Pass
	1760	Outer_Full	4.53	/	/	<=13	Pass
DFT-s-OFDM QPSK	1730	Outer_Full	5.99	/	/	<=13	Pass
	1745	Outer_Full	5.97	/	/	<=13	Pass
	1760	Outer_Full	6.02	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1730	Outer_Full	6.98	/	/	<=13	Pass
	1745	Outer_Full	6.95	/	/	<=13	Pass
	1760	Outer_Full	6.97	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1730	Outer_Full	7.03	/	/	<=13	Pass
	1745	Outer_Full	7.02	/	/	<=13	Pass
	1760	Outer_Full	7.04	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1730	Outer_Full	7.00	/	/	<=13	Pass
	1745	Outer_Full	6.97	/	/	<=13	Pass
	1760	Outer_Full	7.01	/	/	<=13	Pass
CP-OFDM QPSK	1730	Outer_Full	8.37	/	/	<=13	Pass
	1745	Outer_Full	8.35	/	/	<=13	Pass
	1760	Outer_Full	8.40	/	/	<=13	Pass
CP-OFDM 16 QAM	1730	Outer_Full	8.42	/	/	<=13	Pass
	1745	Outer_Full	8.37	/	/	<=13	Pass
	1760	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 64 QAM	1730	Outer_Full	8.51	/	/	<=13	Pass
	1745	Outer_Full	8.47	/	/	<=13	Pass
	1760	Outer_Full	8.51	/	/	<=13	Pass
CP-OFDM 256 QAM	1730	Outer_Full	8.62	/	/	<=13	Pass
	1745	Outer_Full	8.59	/	/	<=13	Pass
	1760	Outer_Full	8.61	/	/	<=13	Pass

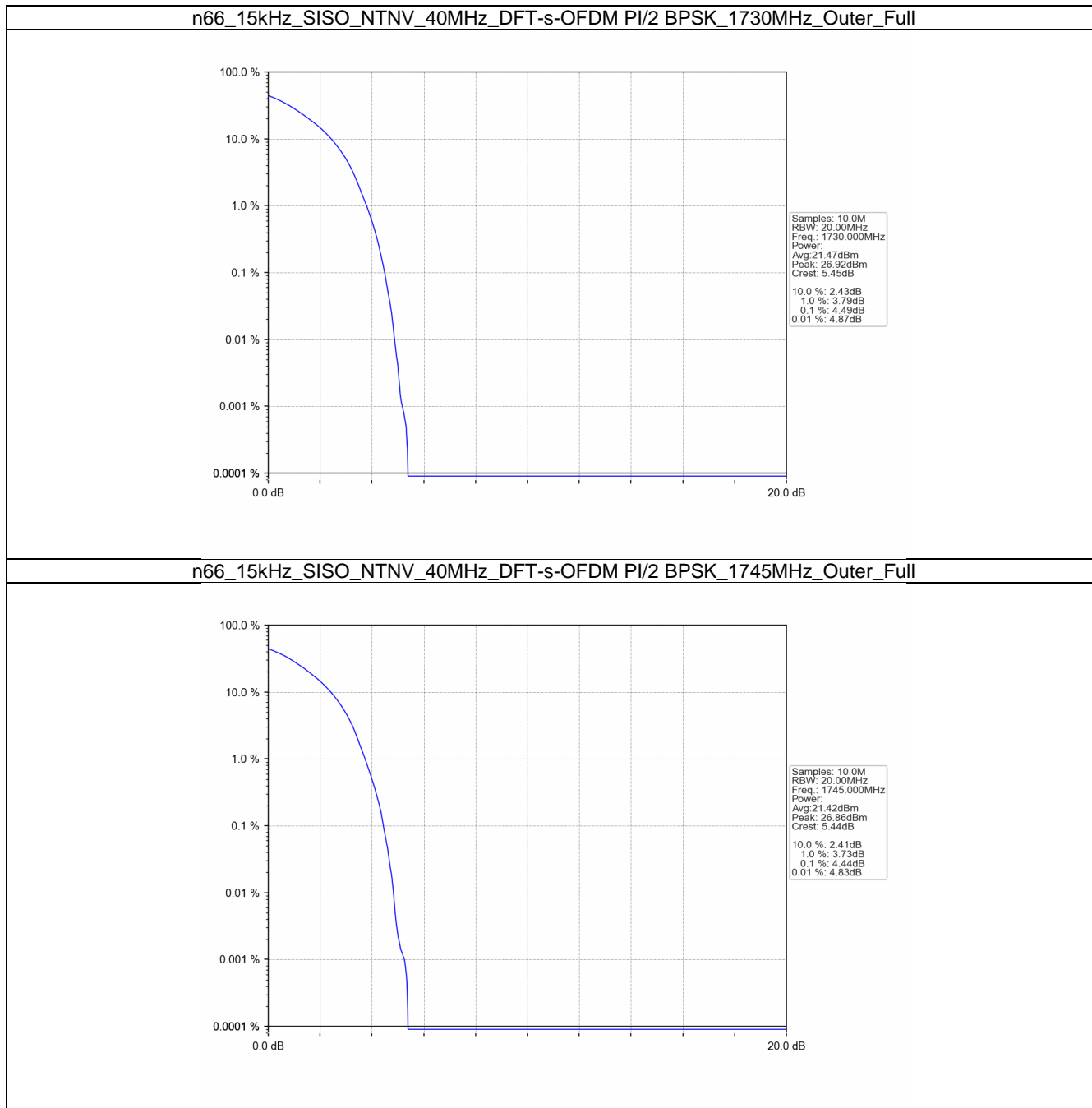


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5.8.2 Test Graph



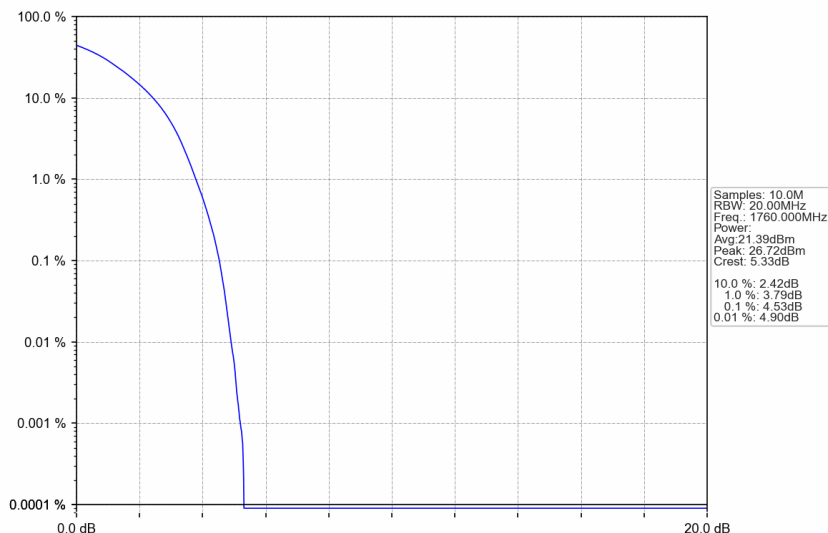
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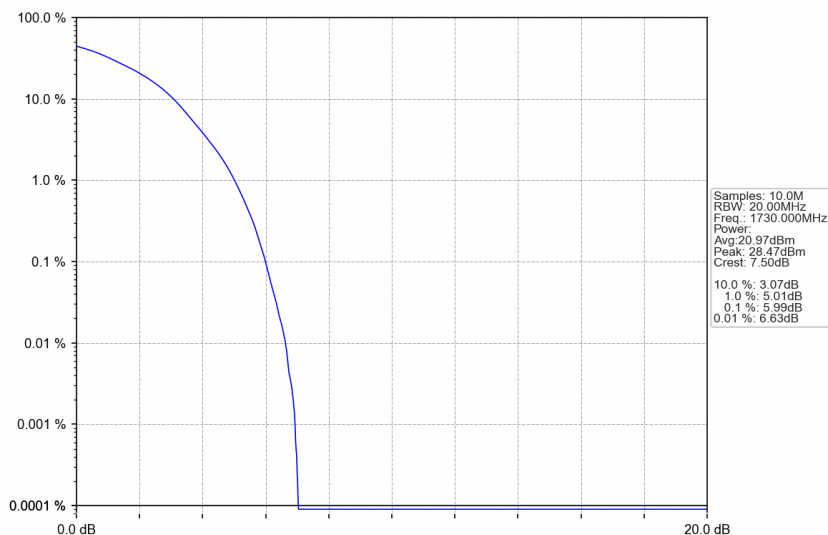
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 Wireless Laboratory

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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_1760MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_1730MHz_Outer_Full

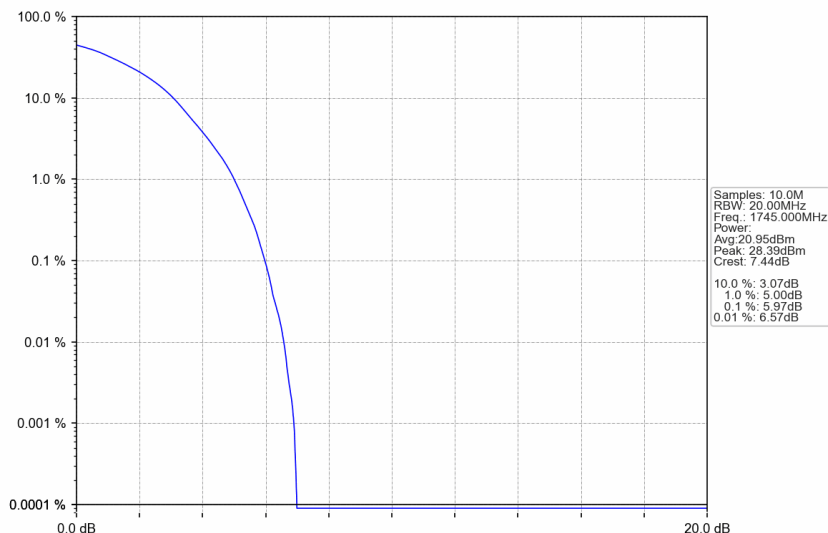


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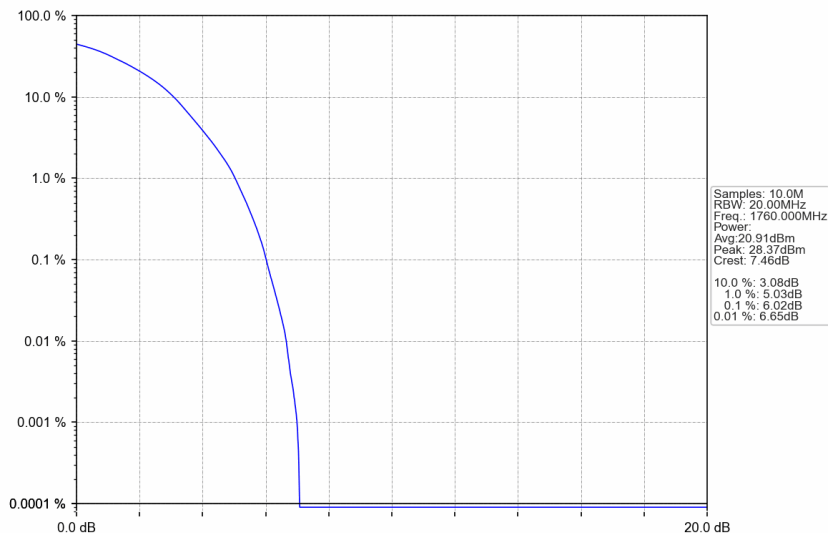
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1760MHz_Outer_Full



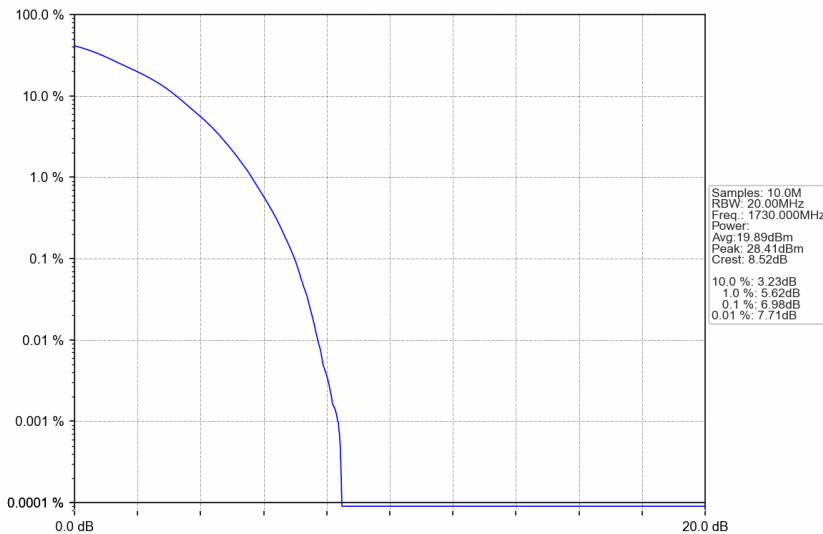
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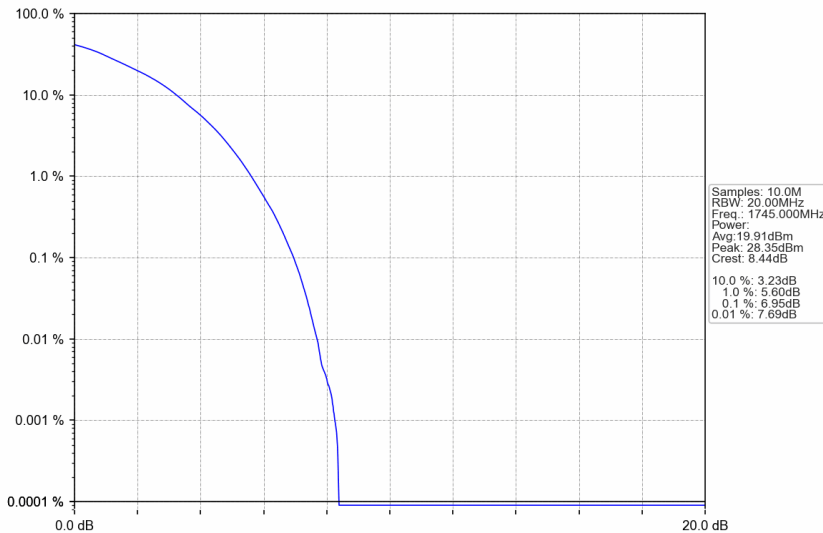
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_1730MHz_Outer_Full



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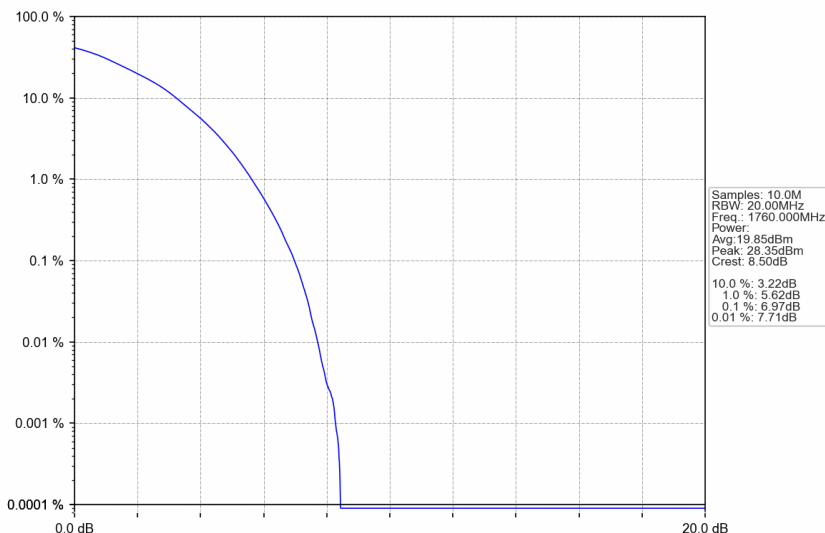


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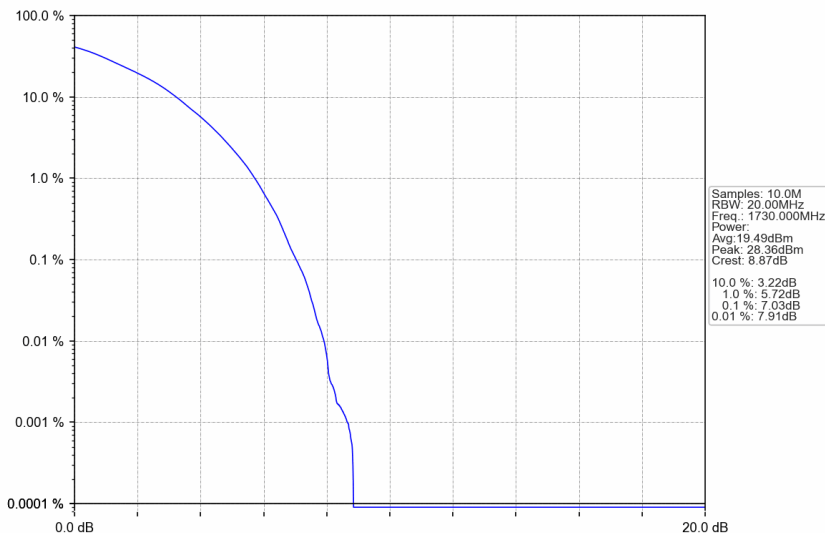
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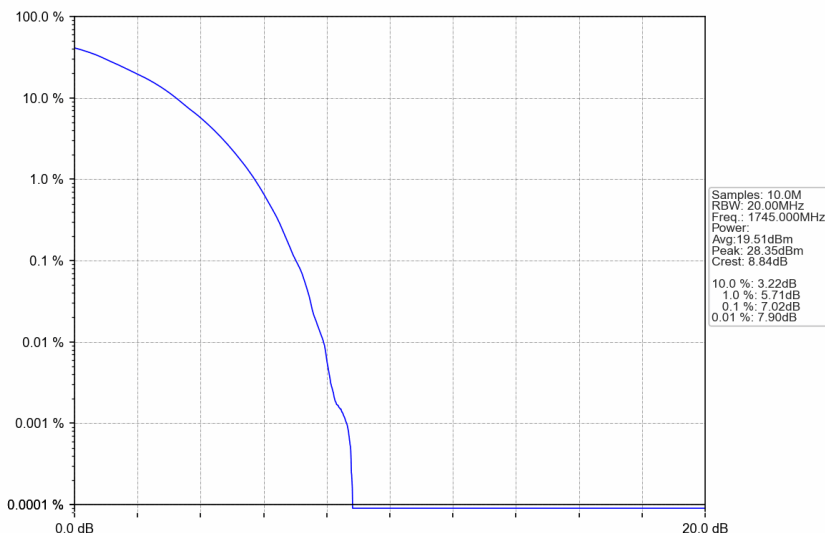


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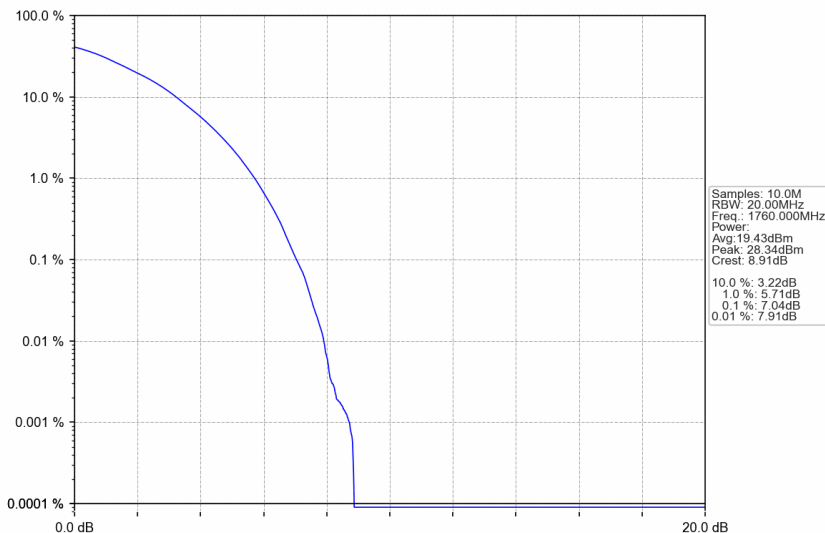
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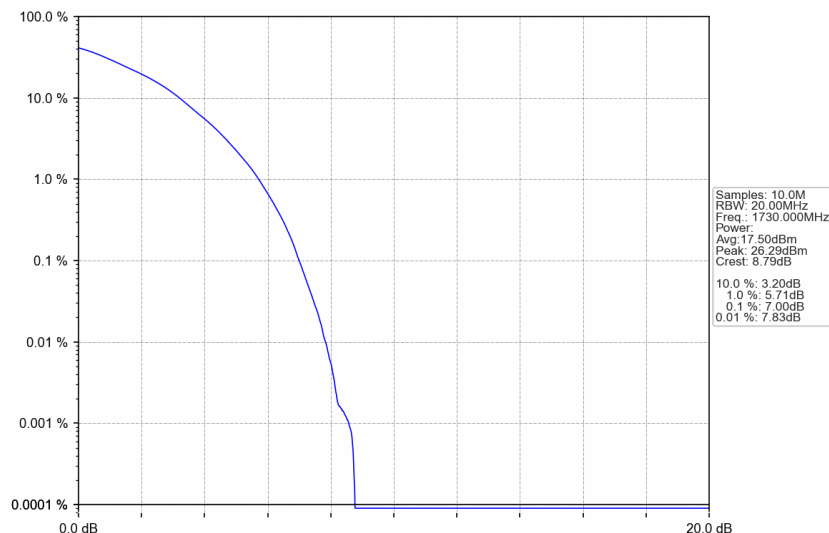
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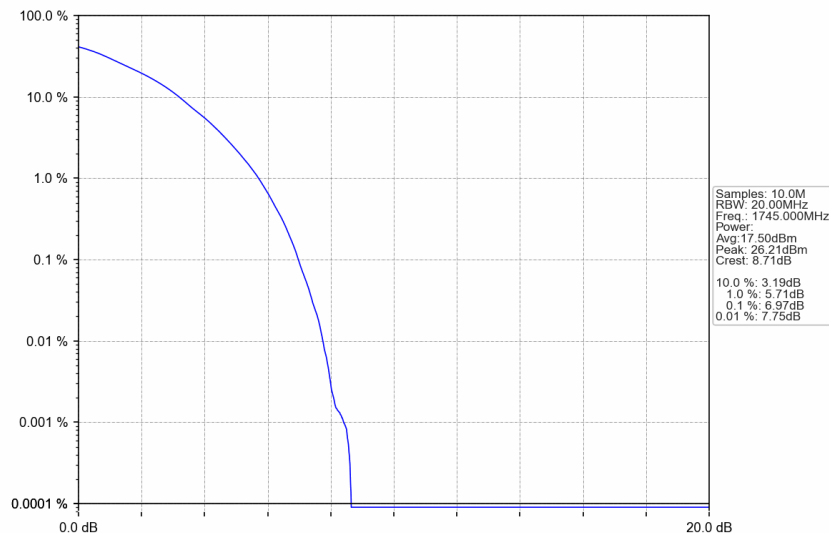
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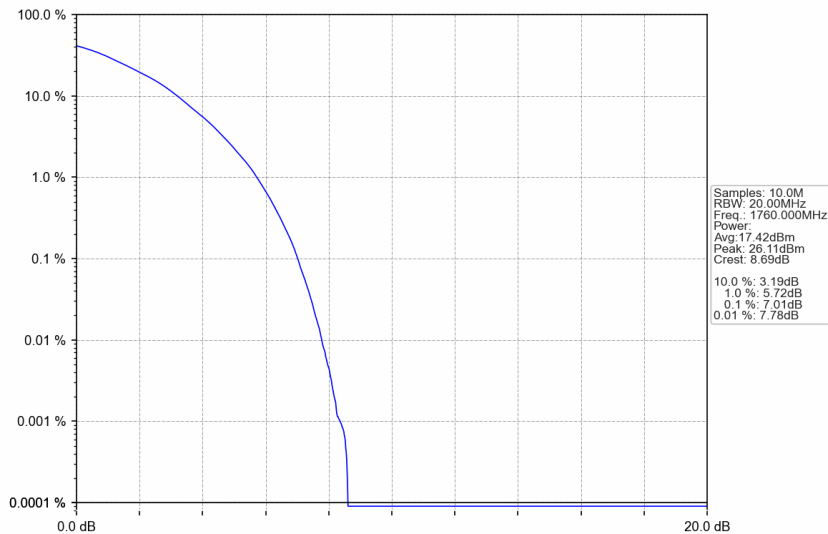
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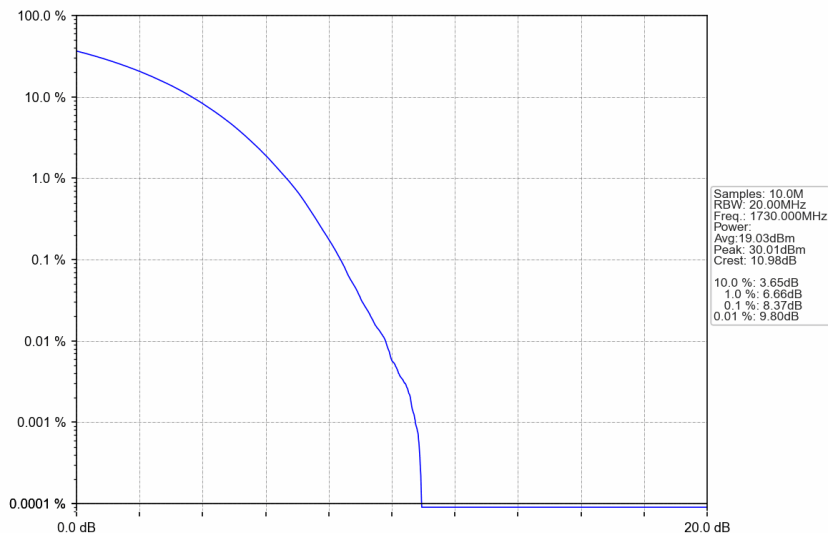
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