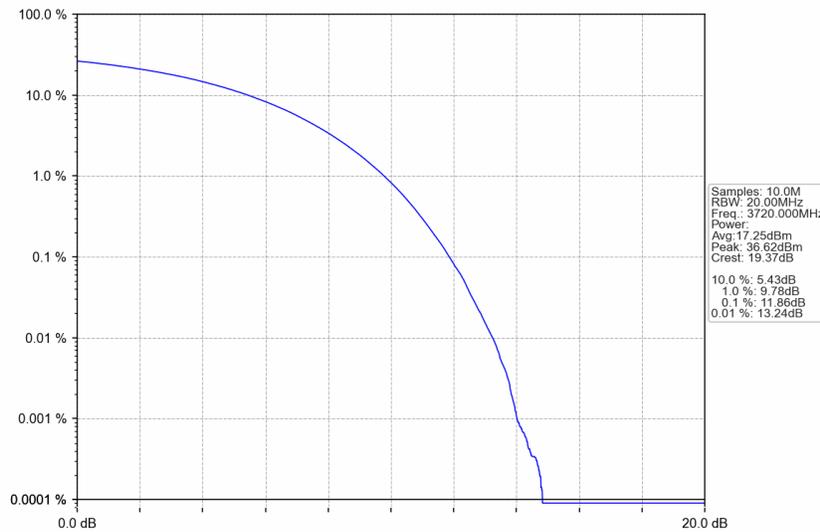
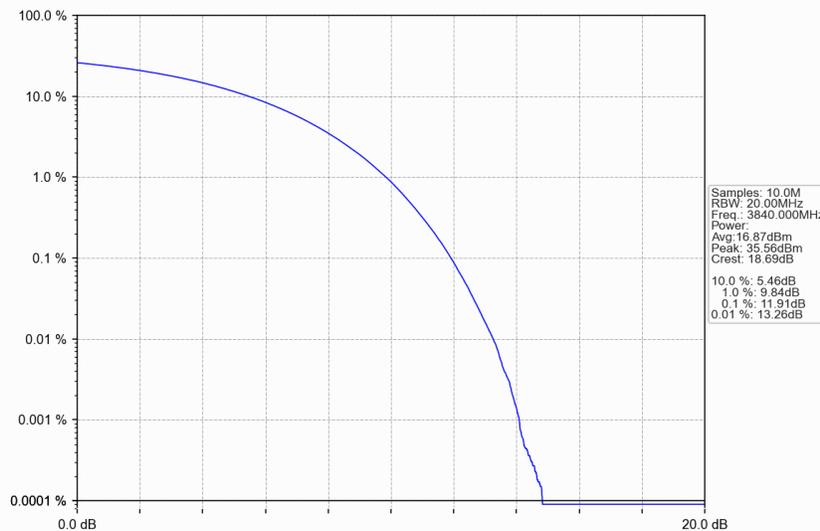


n77a\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_3720MHz\_Outer\_Full



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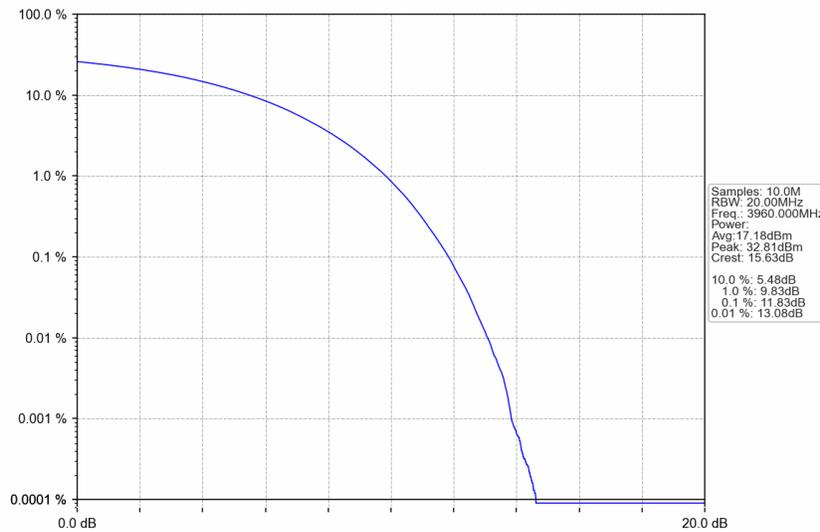
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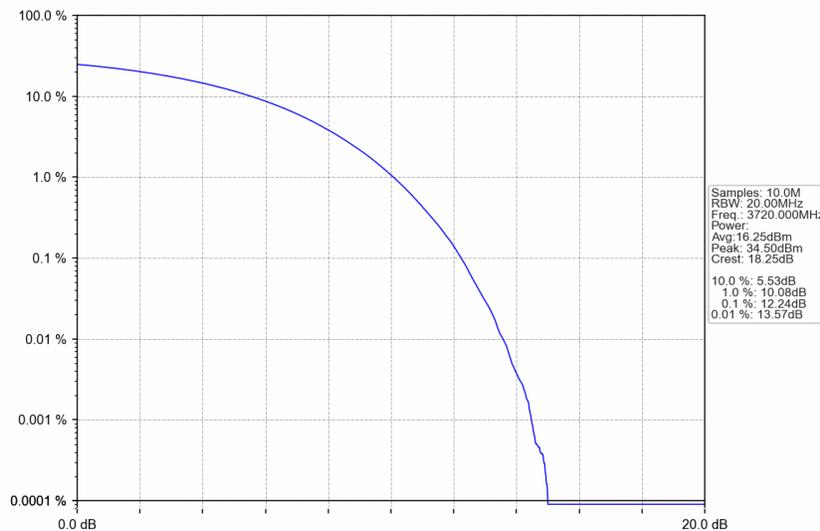
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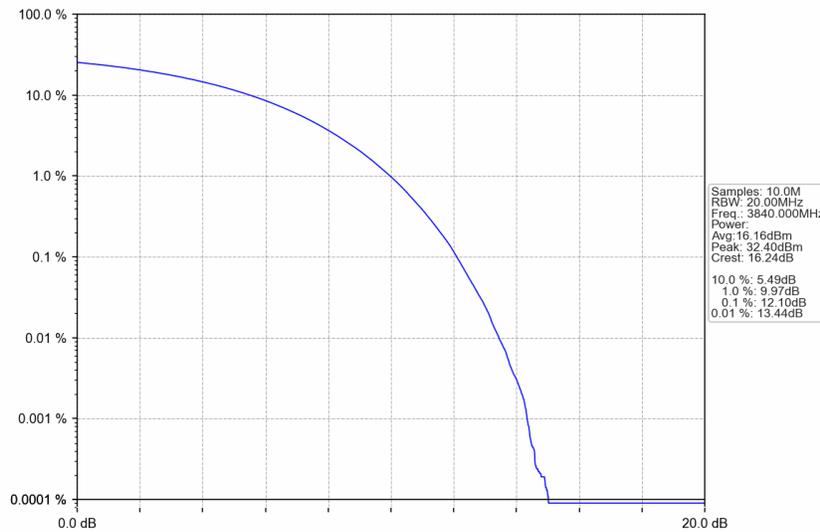
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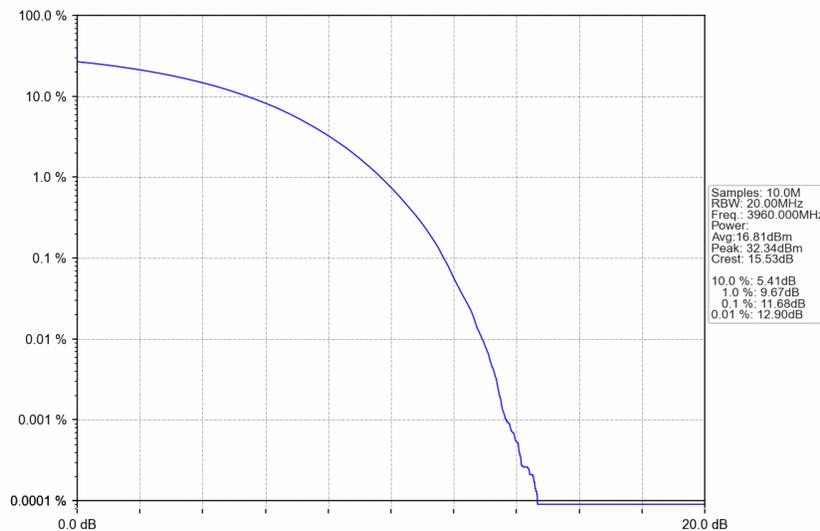
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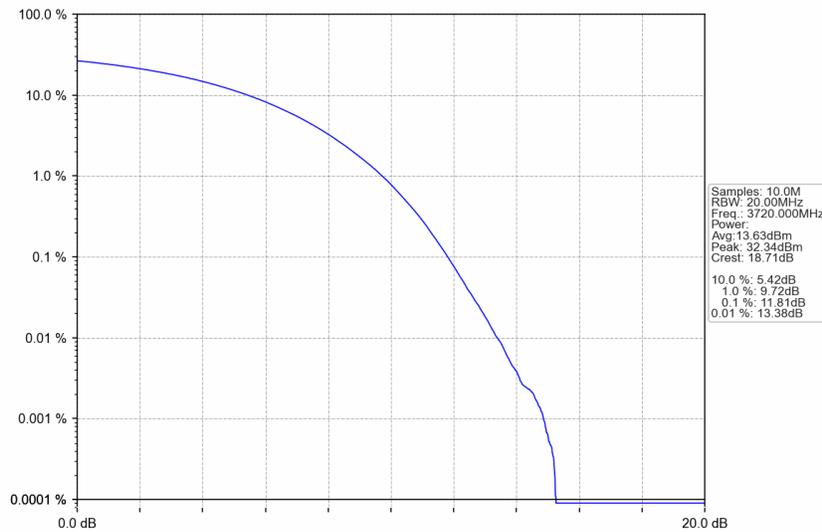


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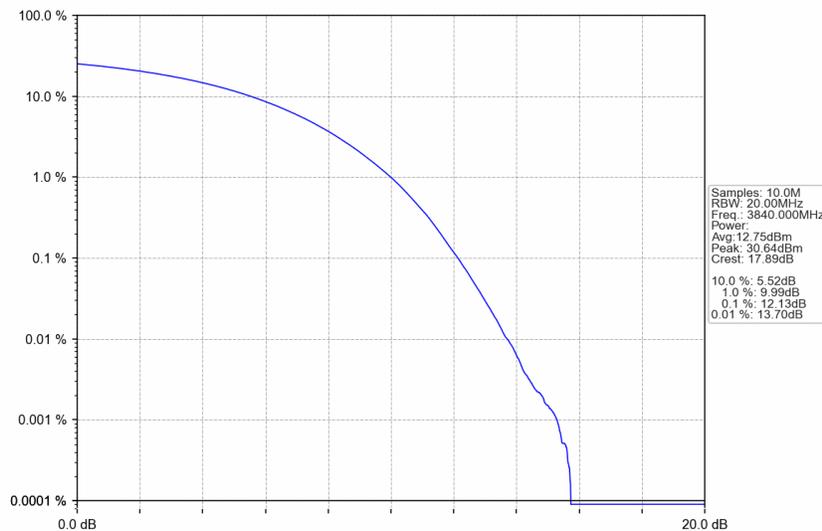
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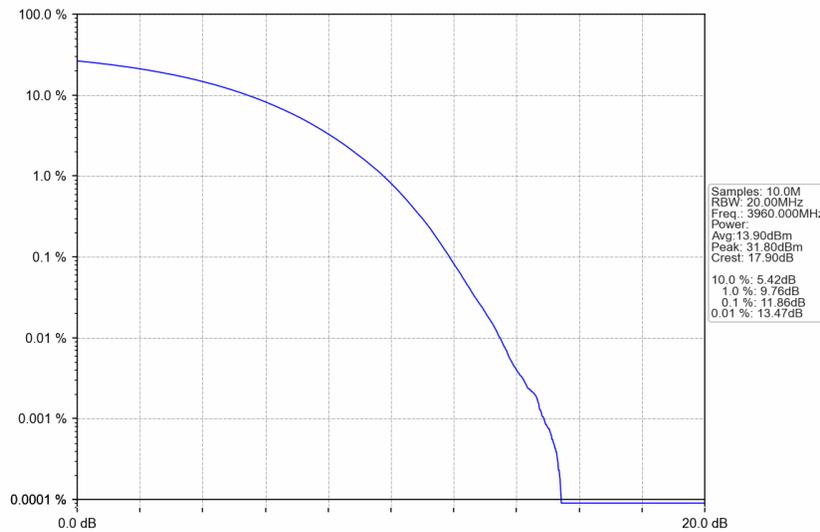


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 512 of 1239

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5.7 15k\_SISO\_50MHz\_NTNV

5.7.1 Test Result

5G NR n77a SCS=15kHz SISO 50MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	9.13	/	/	<=13	Pass
	3840	Outer_Full	8.41	/	/	<=13	Pass
	3954.99	Outer_Full	8.69	/	/	<=13	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	10.15	/	/	<=13	Pass
	3840	Outer_Full	9.87	/	/	<=13	Pass
	3954.99	Outer_Full	9.76	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	10.93	/	/	<=13	Pass
	3840	Outer_Full	11.09	/	/	<=13	Pass
	3954.99	Outer_Full	10.61	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	11.29	/	/	<=13	Pass
	3840	Outer_Full	10.61	/	/	<=13	Pass
	3954.99	Outer_Full	11.09	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	10.81	/	/	<=13	Pass
	3840	Outer_Full	9.96	/	/	<=13	Pass
	3954.99	Outer_Full	10.98	/	/	<=13	Pass
CP-OFDM QPSK	3725.01	Outer_Full	11.88	/	/	<=13	Pass
	3840	Outer_Full	11.82	/	/	<=13	Pass
	3954.99	Outer_Full	12.17	/	/	<=13	Pass
CP-OFDM 16 QAM	3725.01	Outer_Full	11.79	/	/	<=13	Pass
	3840	Outer_Full	11.76	/	/	<=13	Pass
	3954.99	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	11.80	/	/	<=13	Pass
	3840	Outer_Full	11.70	/	/	<=13	Pass
	3954.99	Outer_Full	12.12	/	/	<=13	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	12.11	/	/	<=13	Pass
	3840	Outer_Full	12.23	/	/	<=13	Pass
	3954.99	Outer_Full	11.75	/	/	<=13	Pass

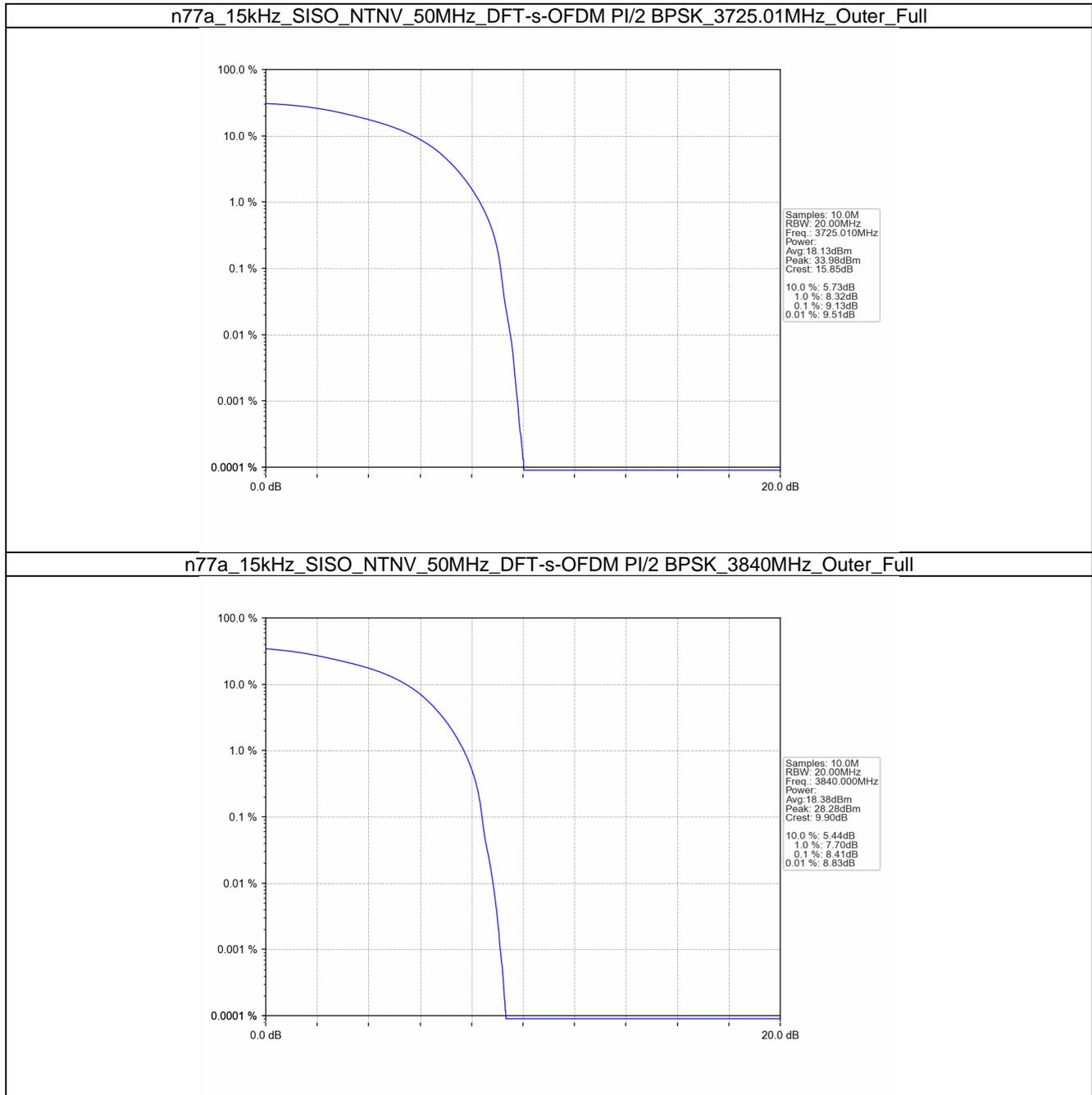


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5.7.2 Test Graph



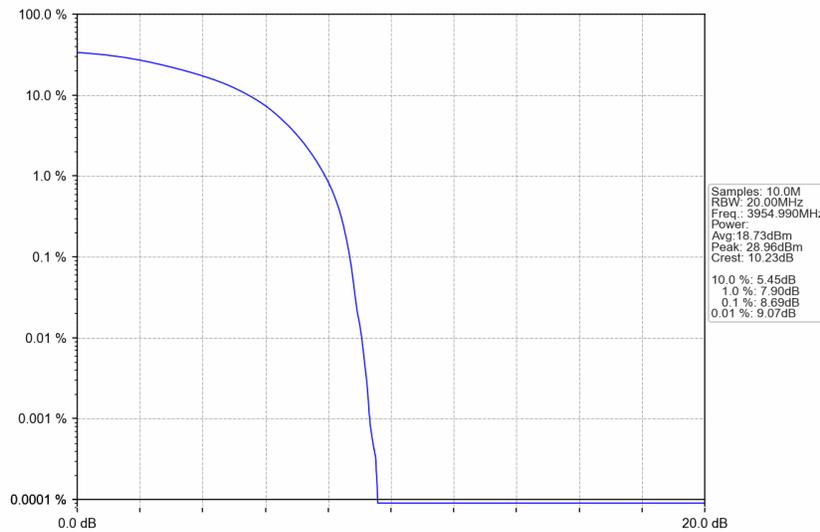
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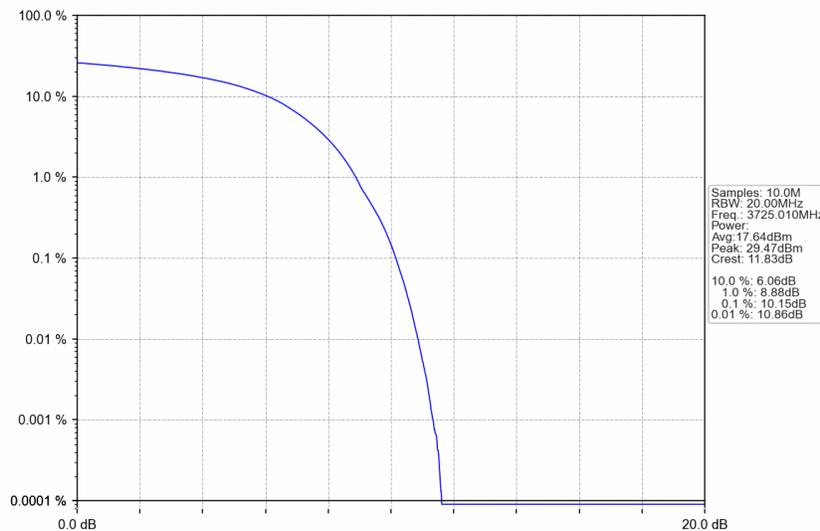
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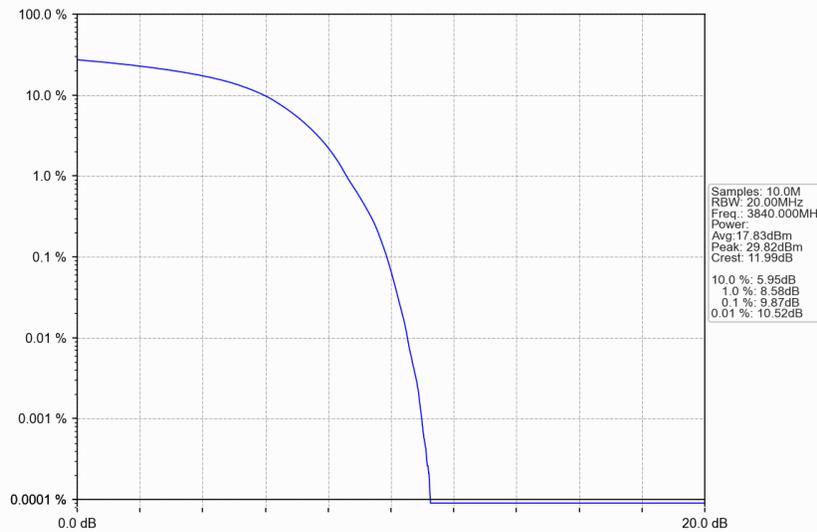
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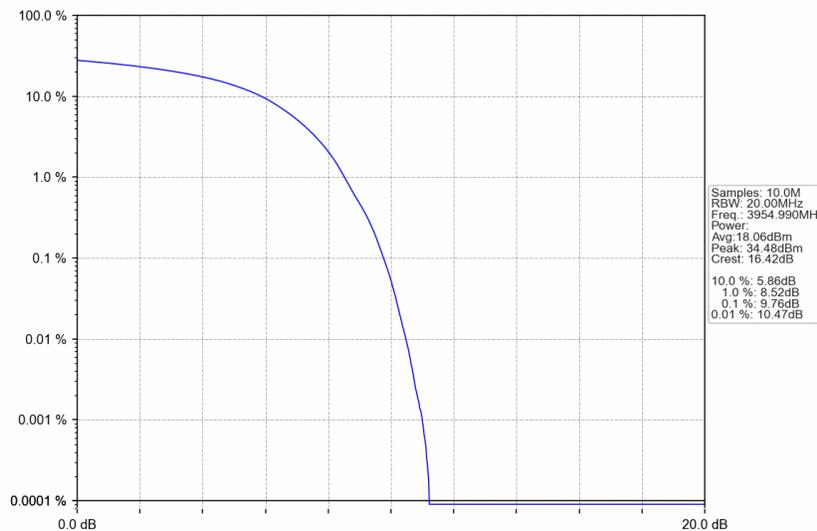
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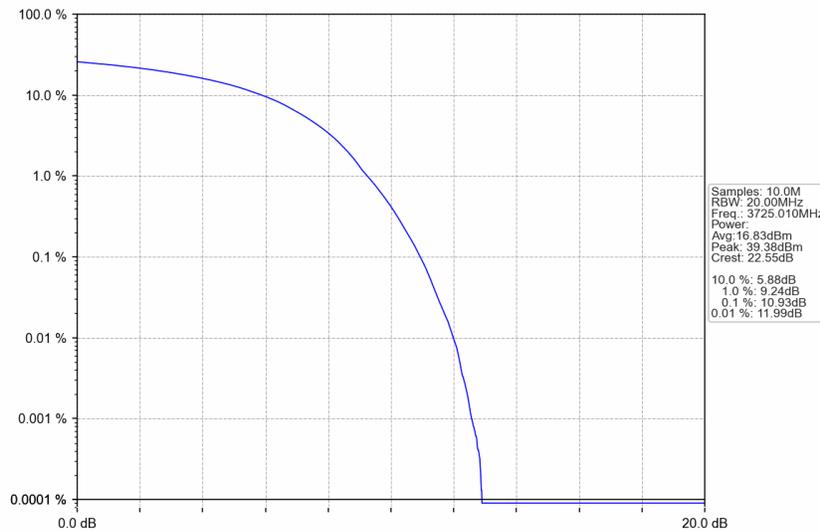
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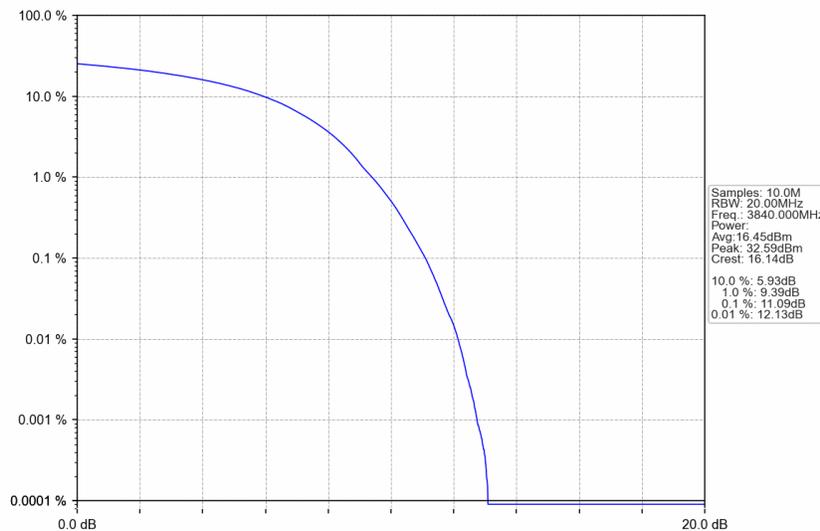
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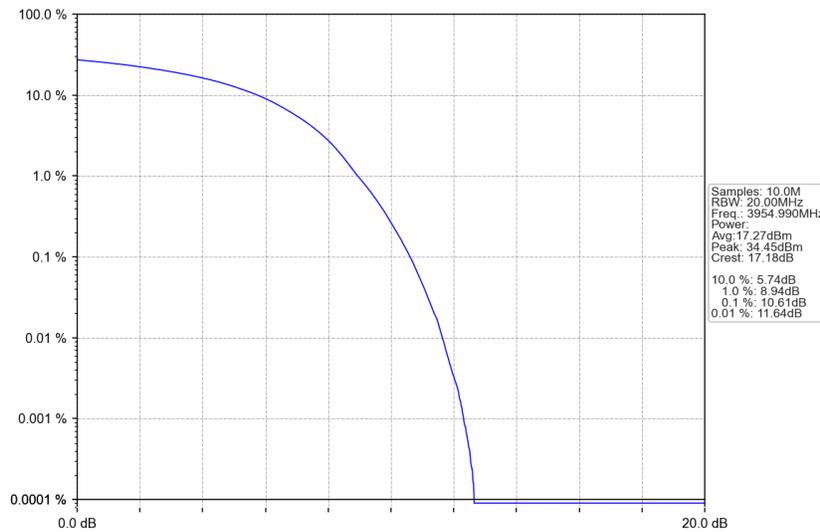
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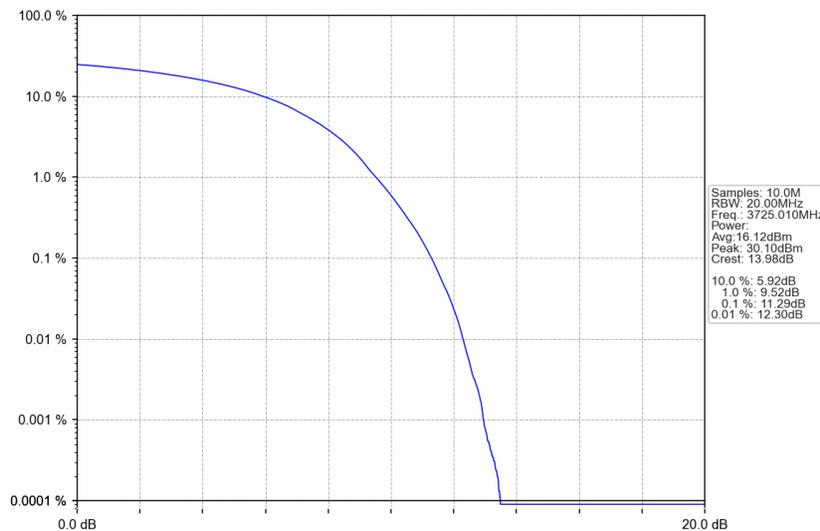
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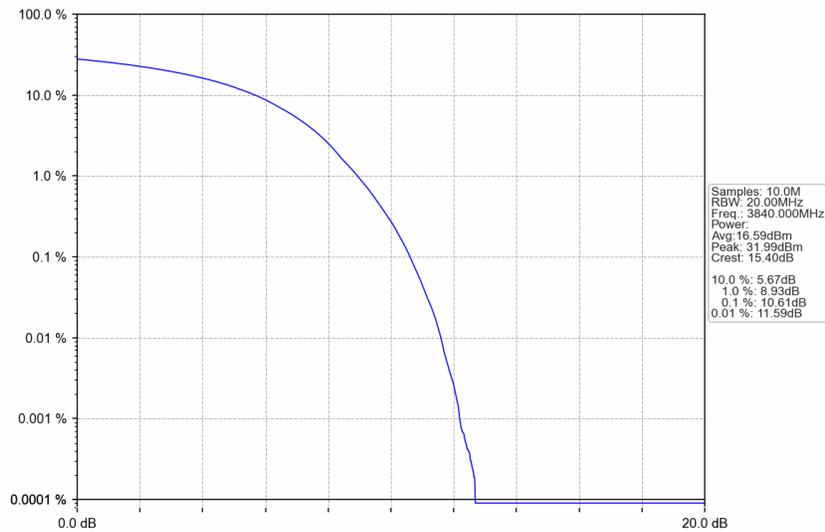
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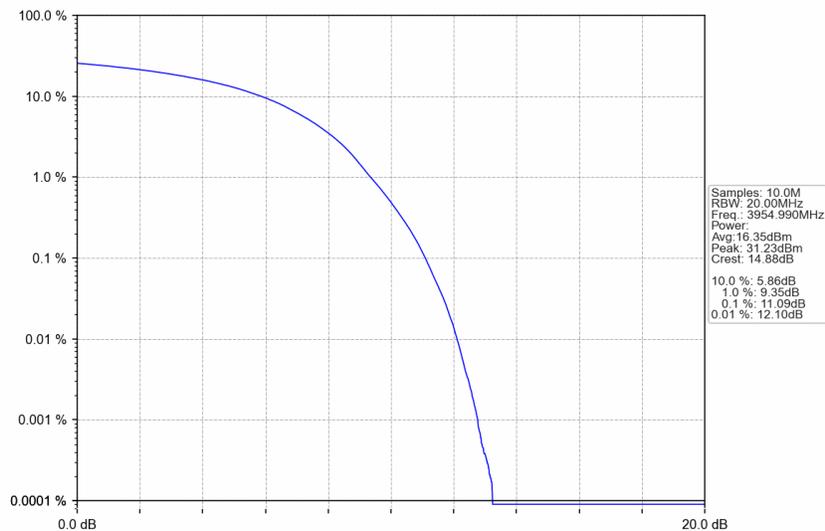
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 64 QAM\_3954.99MHz\_Outer\_Full

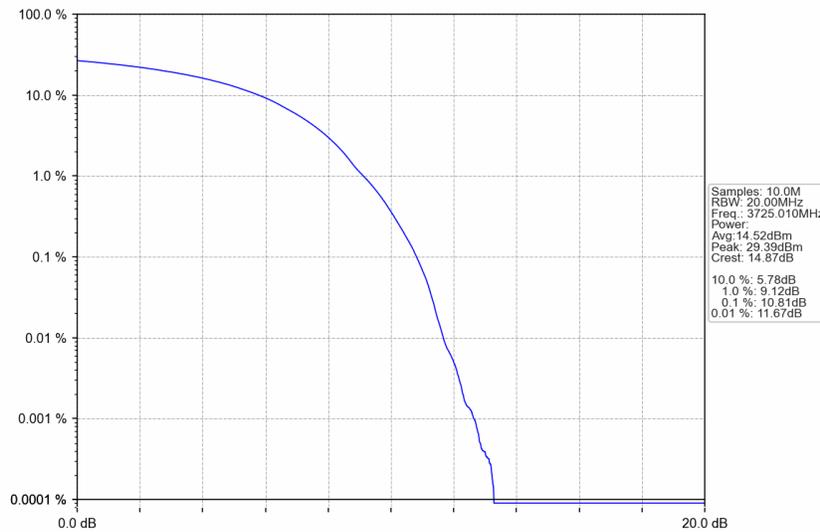


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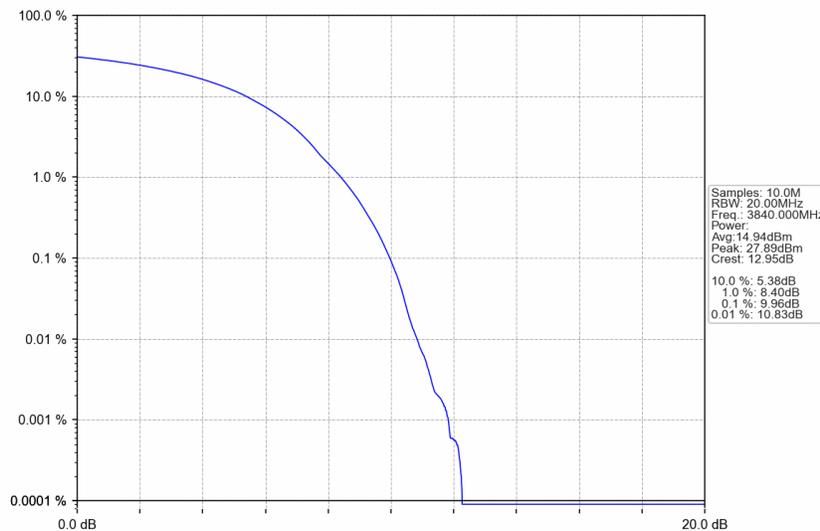
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 256 QAM\_3725.01MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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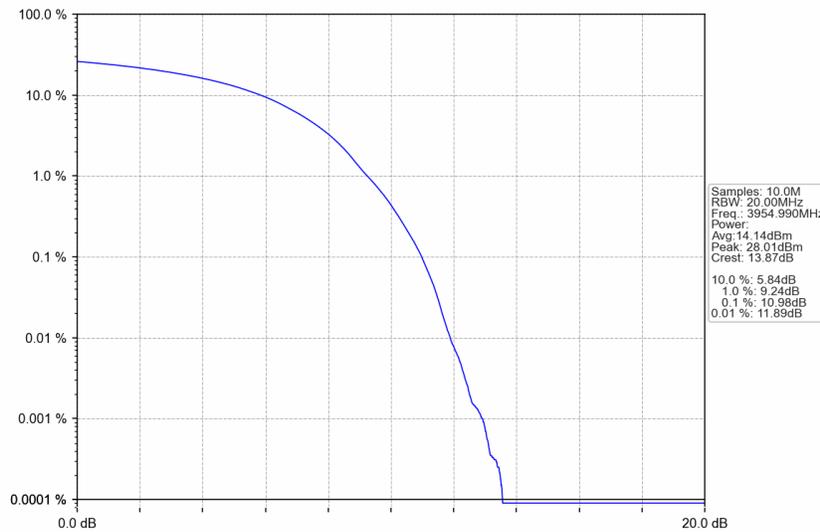
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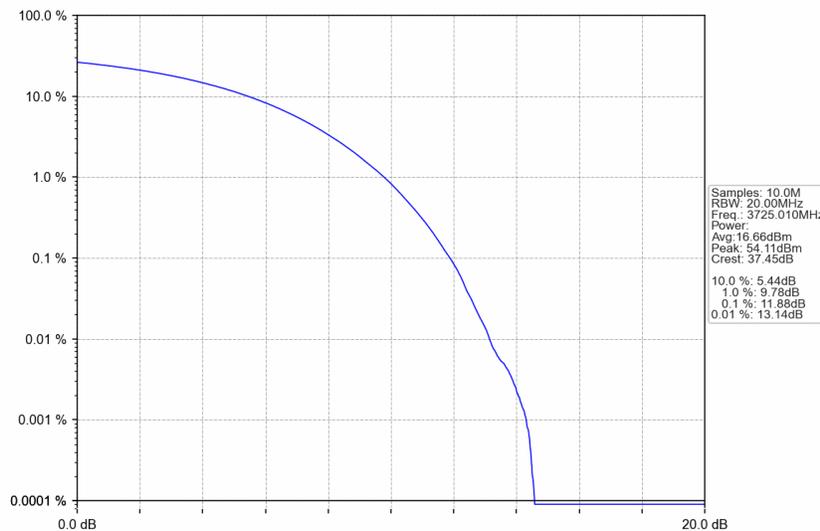
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 256 QAM\_3954.99MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3725.01MHz\_Outer\_Full



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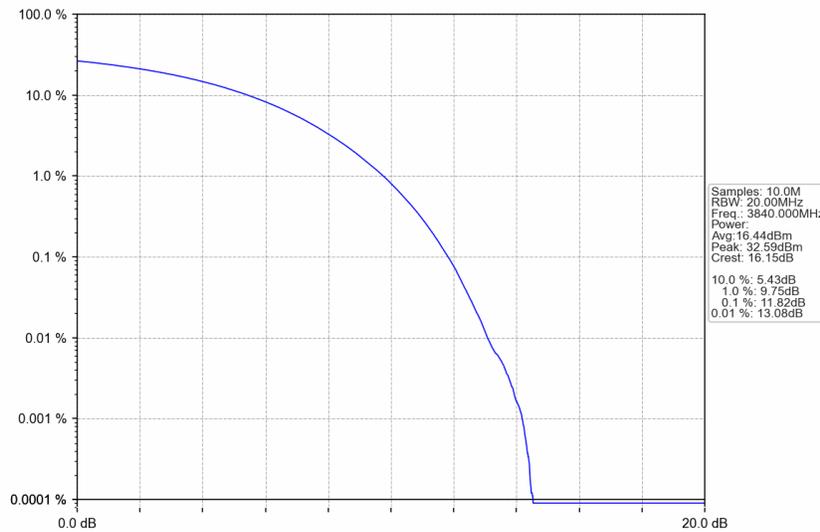
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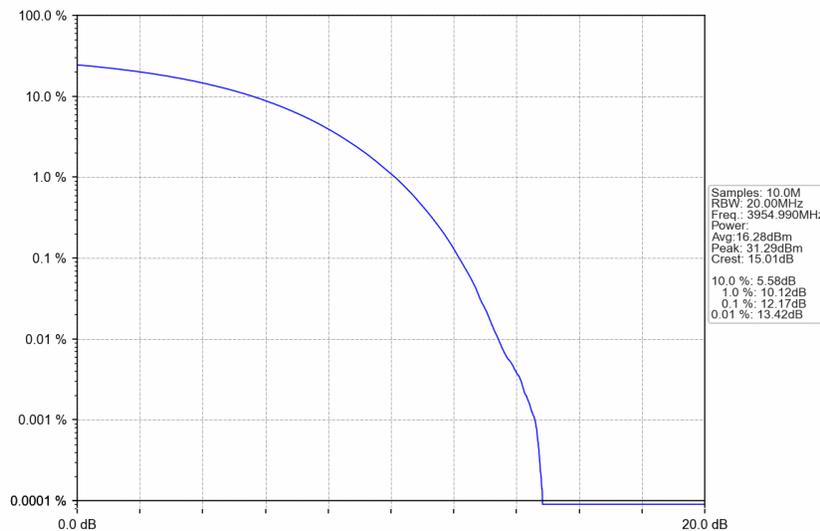
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM QPSK\_3954.99MHz\_Outer\_Full



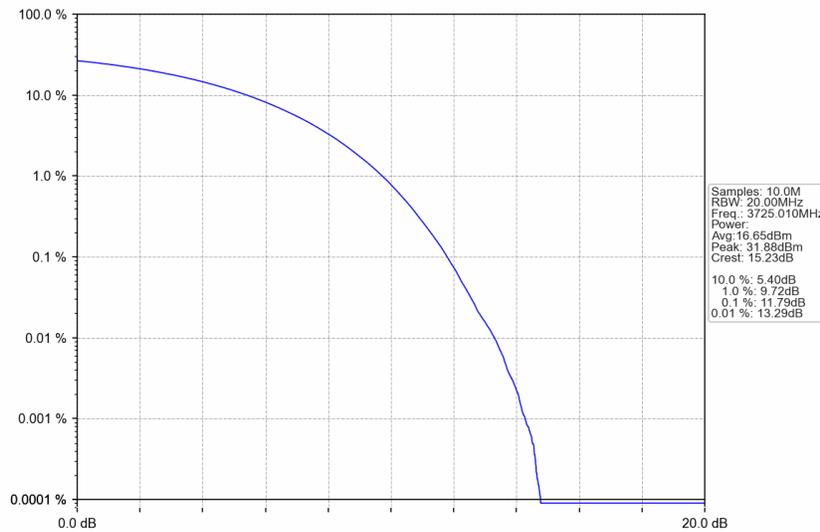
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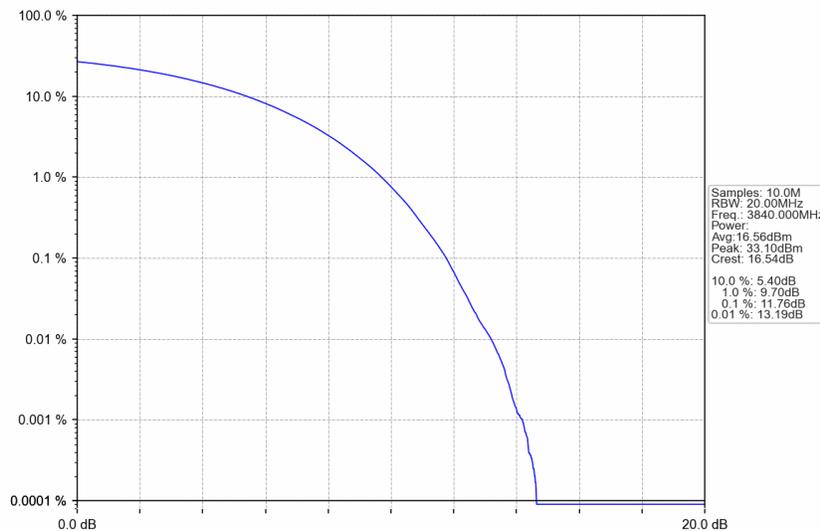
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 16 QAM\_3725.01MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full



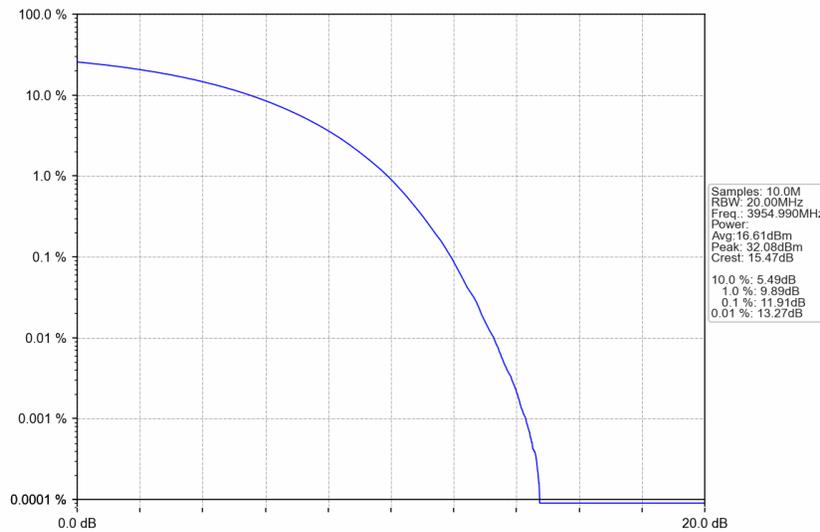
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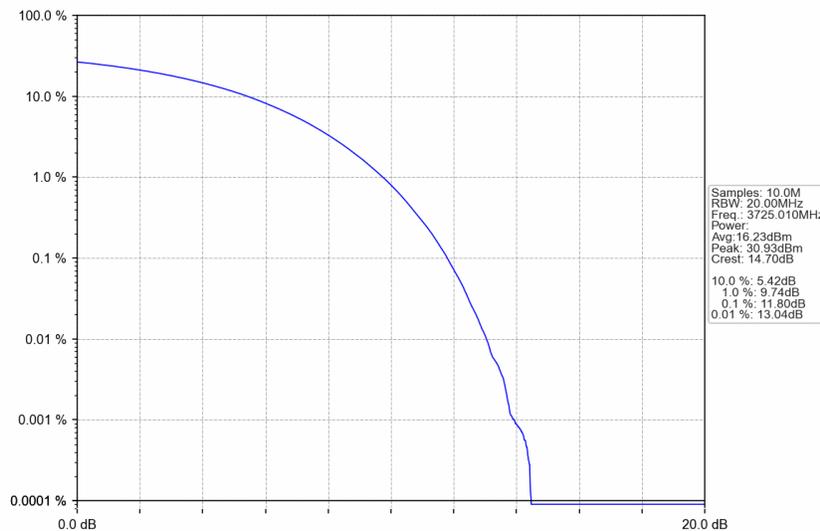
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 64 QAM\_3725.01MHz\_Outer\_Full



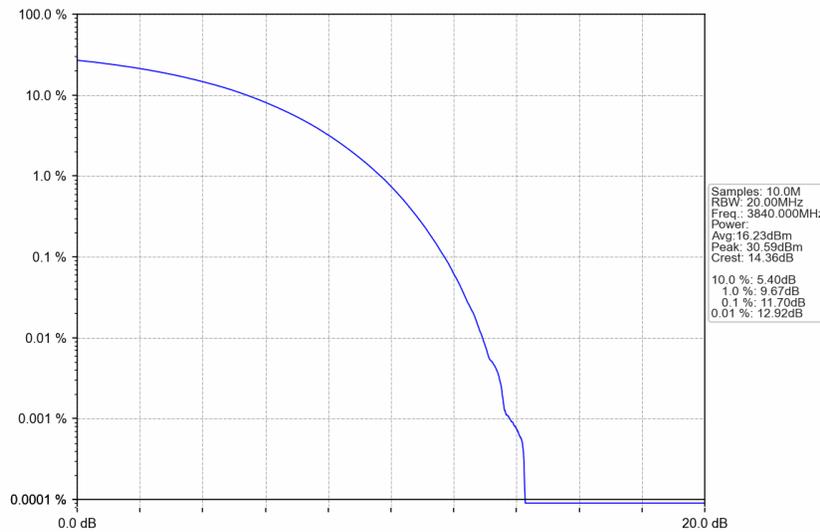
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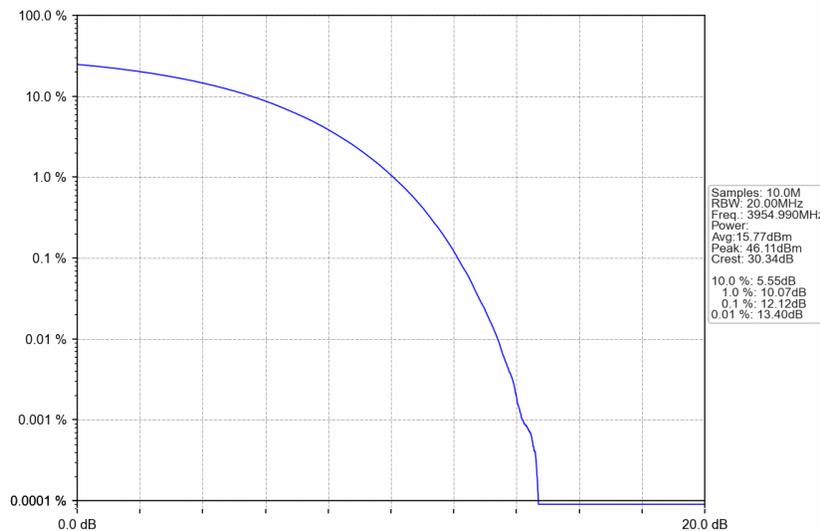
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n77a\_15kHz\_SISO\_NTNV\_50MHz\_CP-OFDM 64 QAM\_3954.99MHz\_Outer\_Full



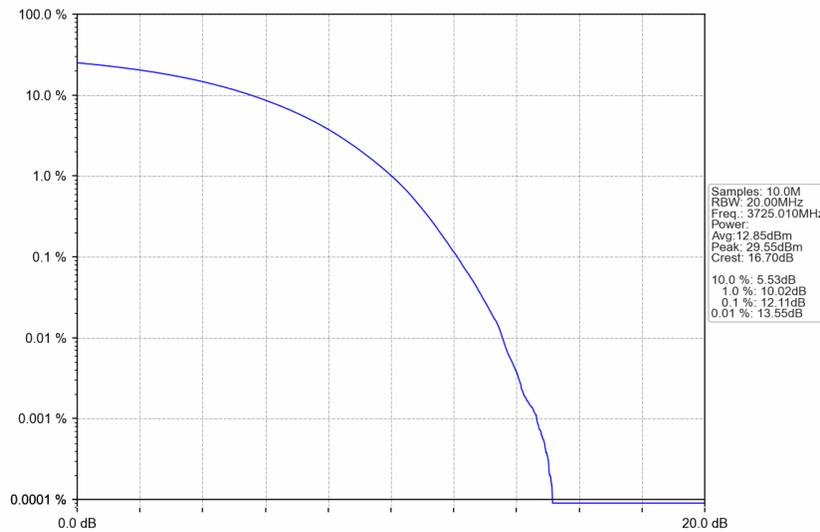
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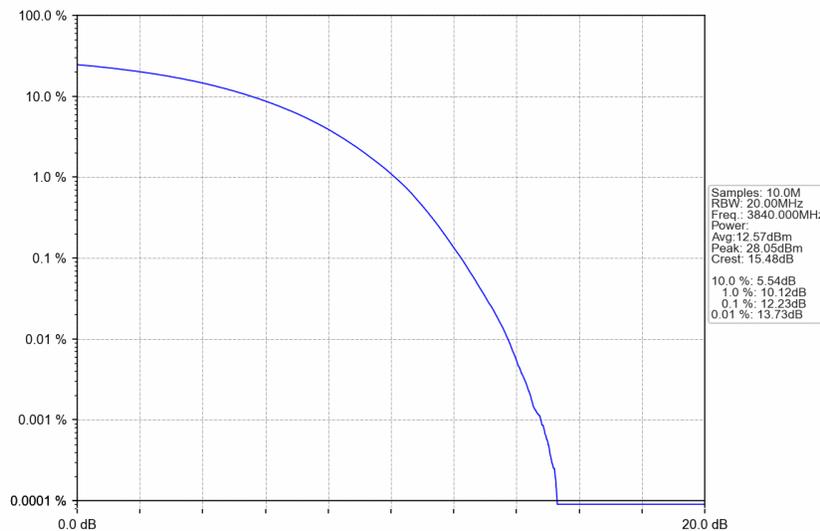
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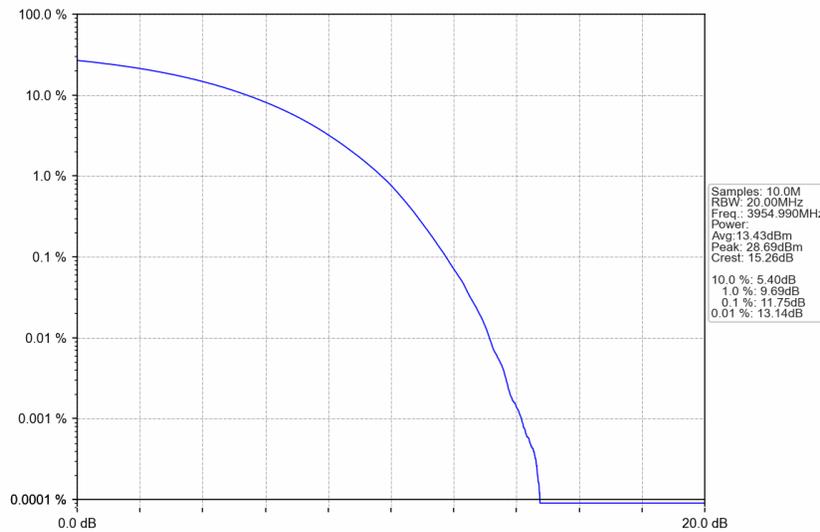


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 527 of 1239

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5.8 30k\_SISO\_10MHz\_NTNV

5.8.1 Test Result

5G NR n77a SCS=30kHz SISO 10MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3705	Outer_Full	10.81	/	/	<=13	Pass
	3840	Outer_Full	11.10	/	/	<=13	Pass
	3975	Outer_Full	10.41	/	/	<=13	Pass
DFT-s-OFDM QPSK	3705	Outer_Full	12.09	/	/	<=13	Pass
	3840	Outer_Full	11.73	/	/	<=13	Pass
	3975	Outer_Full	11.49	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3705	Outer_Full	12.53	/	/	<=13	Pass
	3840	Outer_Full	12.73	/	/	<=13	Pass
	3975	Outer_Full	12.85	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3705	Outer_Full	10.15	/	/	<=13	Pass
	3840	Outer_Full	12.84	/	/	<=13	Pass
	3975	Outer_Full	12.61	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3705	Outer_Full	12.53	/	/	<=13	Pass
	3840	Outer_Full	12.73	/	/	<=13	Pass
	3975	Outer_Full	12.67	/	/	<=13	Pass
CP-OFDM QPSK	3705	Outer_Full	12.08	/	/	<=13	Pass
	3840	Outer_Full	11.96	/	/	<=13	Pass
	3975	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 16 QAM	3705	Outer_Full	12.07	/	/	<=13	Pass
	3840	Outer_Full	11.48	/	/	<=13	Pass
	3975	Outer_Full	11.33	/	/	<=13	Pass
CP-OFDM 64 QAM	3705	Outer_Full	11.84	/	/	<=13	Pass
	3840	Outer_Full	11.88	/	/	<=13	Pass
	3975	Outer_Full	11.52	/	/	<=13	Pass
CP-OFDM 256 QAM	3705	Outer_Full	11.80	/	/	<=13	Pass
	3840	Outer_Full	11.90	/	/	<=13	Pass
	3975	Outer_Full	11.93	/	/	<=13	Pass

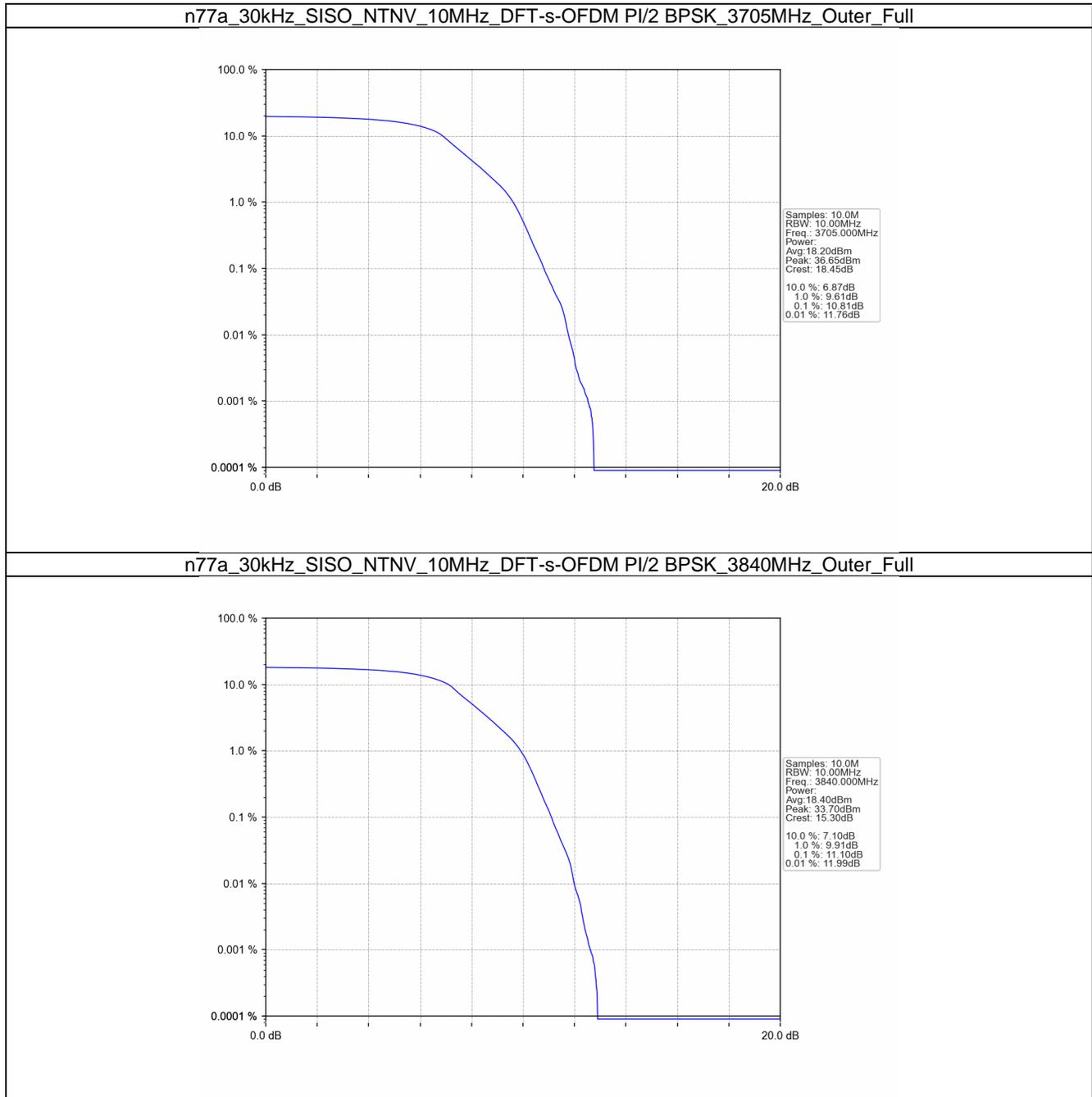


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5.8.2 Test Graph

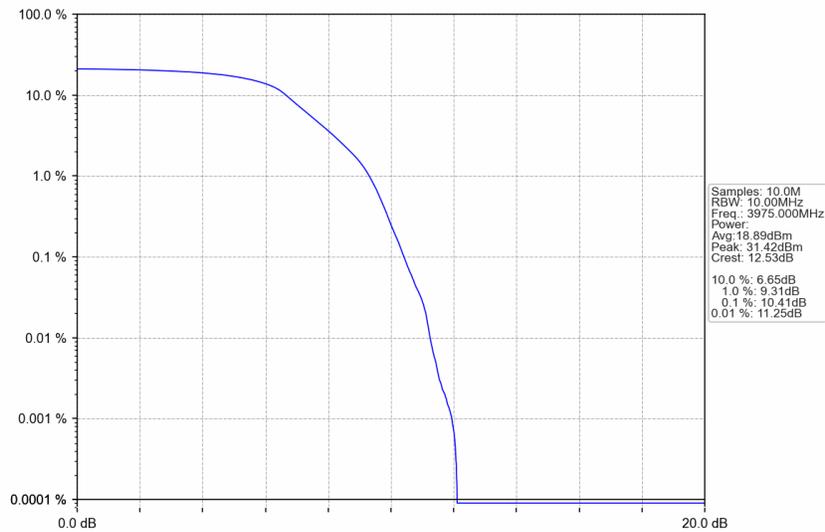


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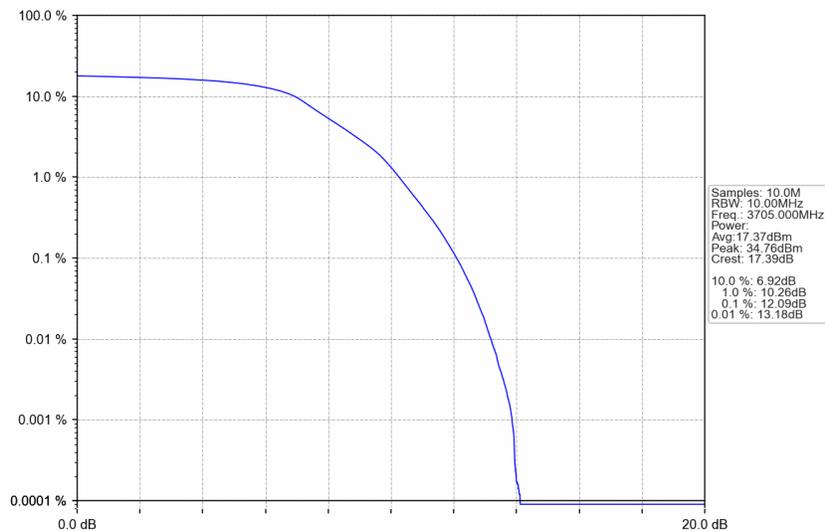
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_3975MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_3705MHz\_Outer\_Full

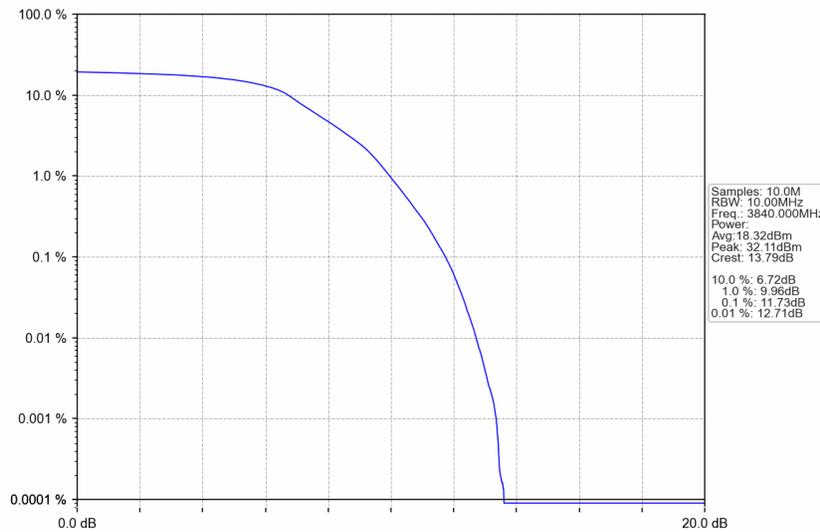


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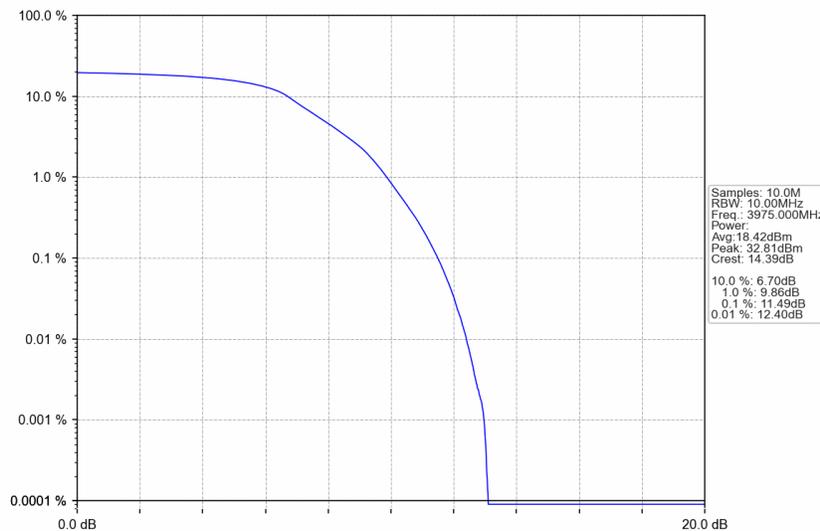
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_3975MHz\_Outer\_Full



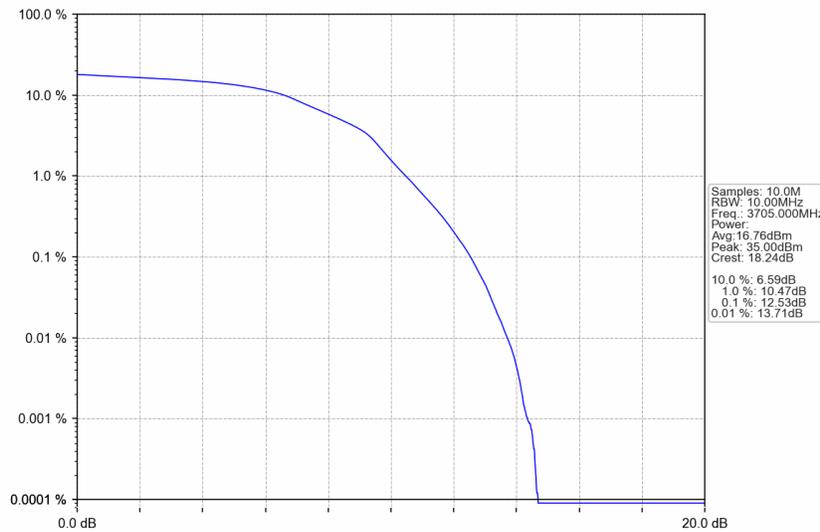
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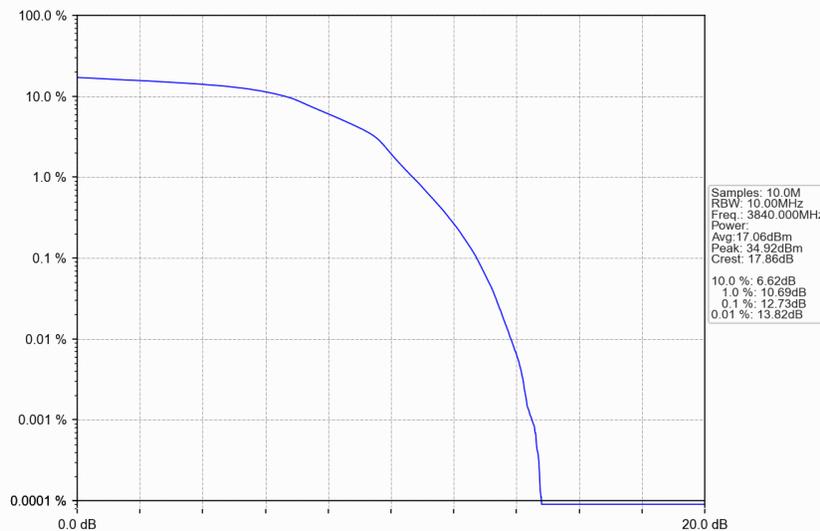
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_3705MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_3840MHz\_Outer\_Full



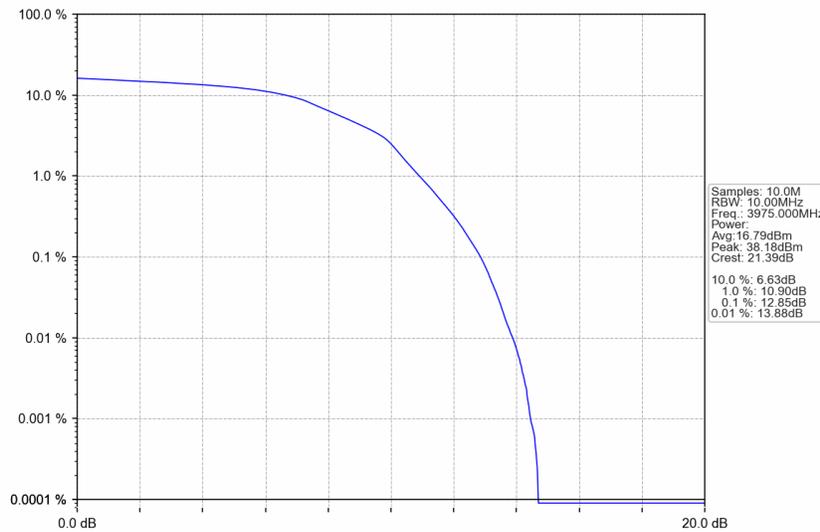
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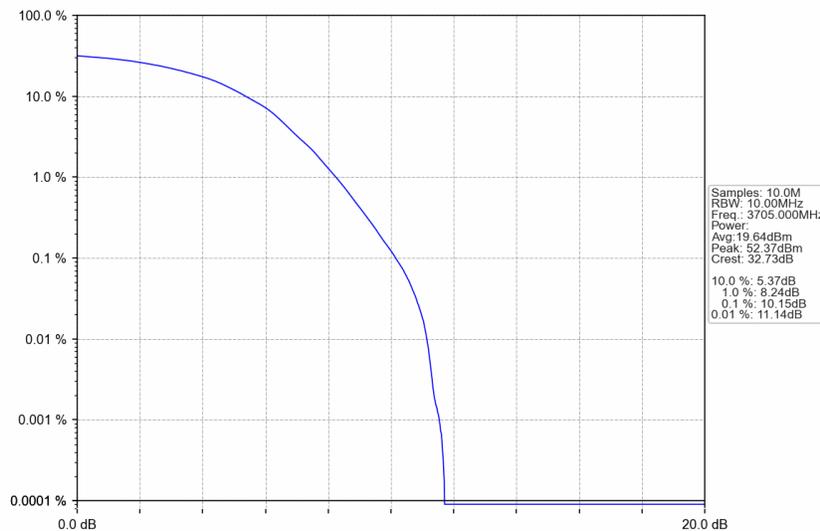
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_3705MHz\_Outer\_Full



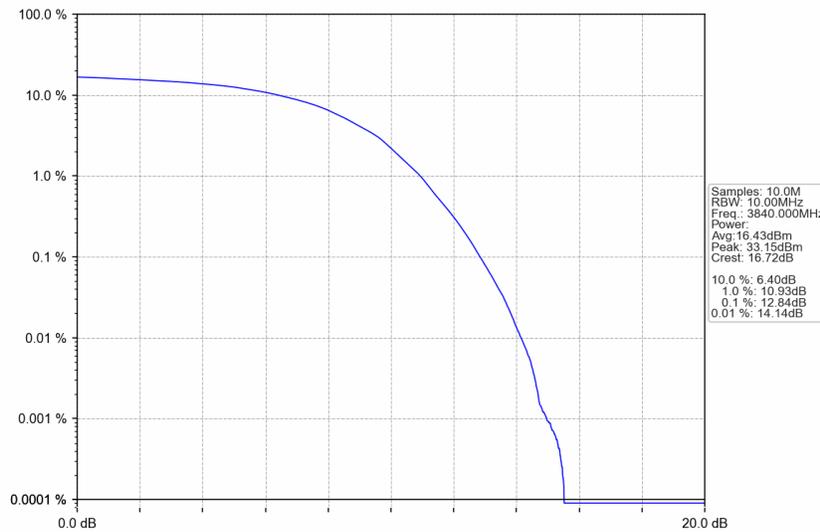
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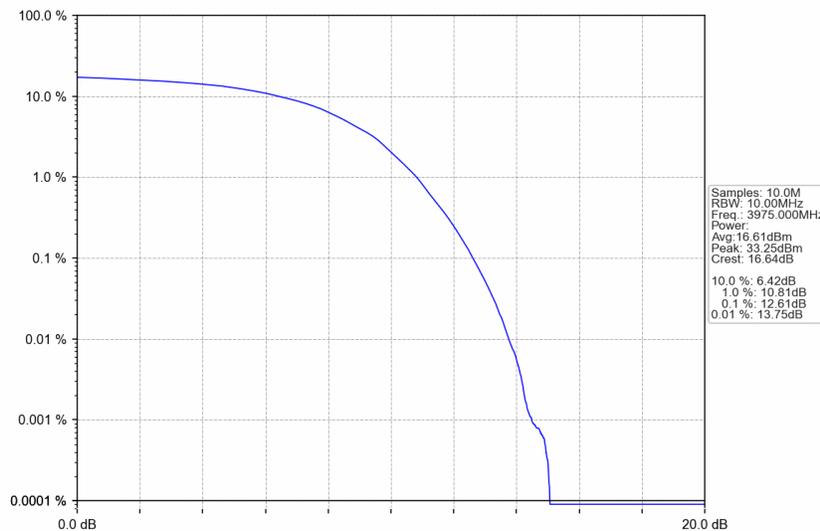
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_3975MHz\_Outer\_Full



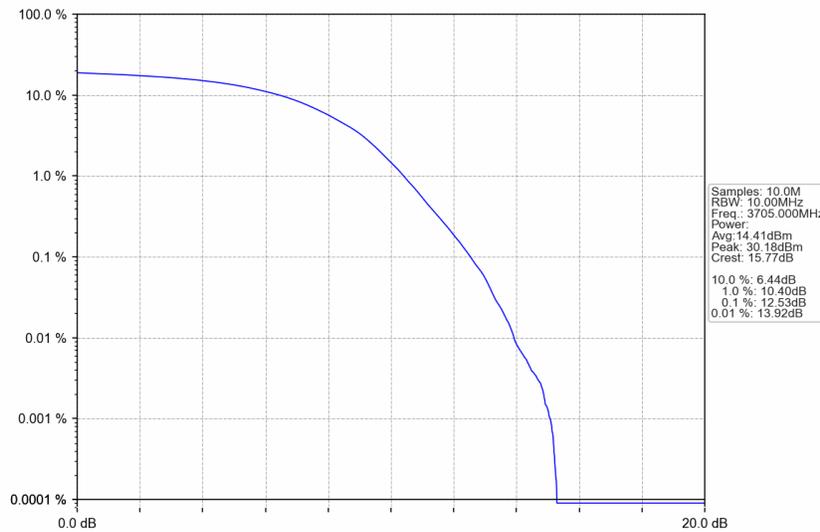
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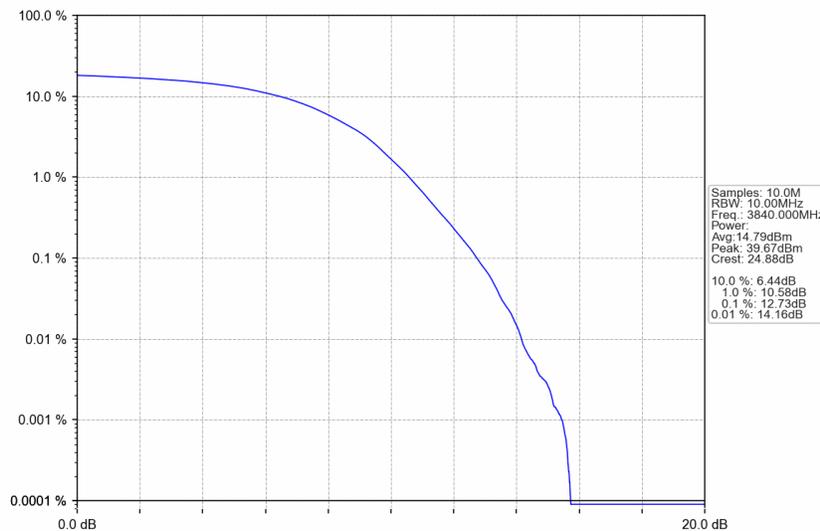
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



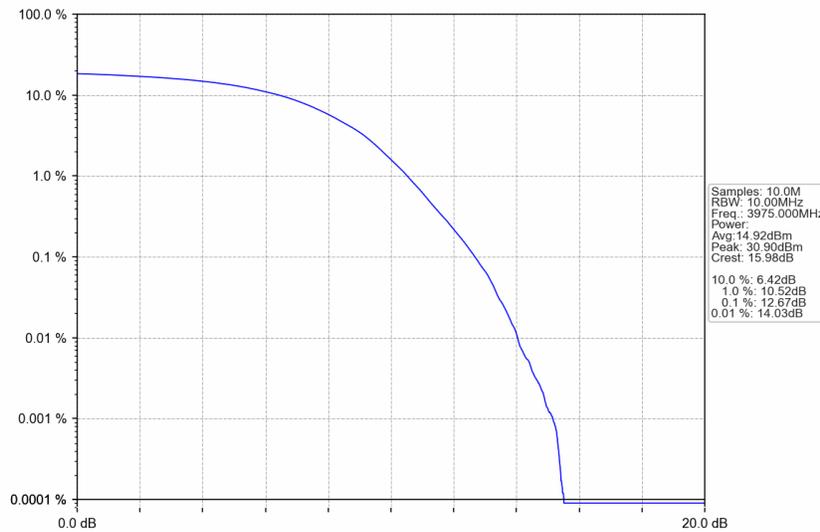
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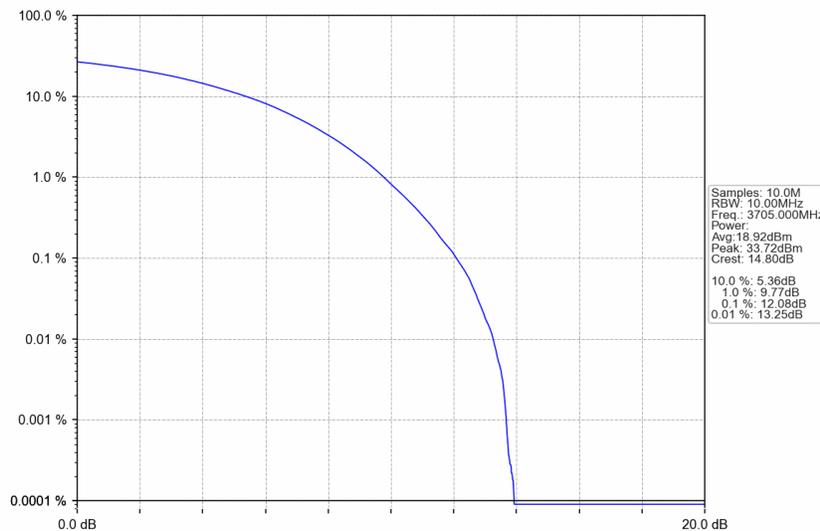
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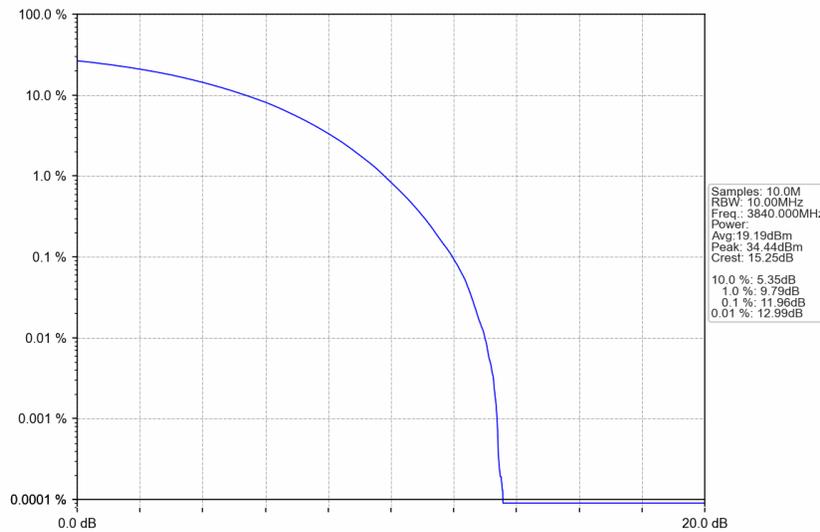


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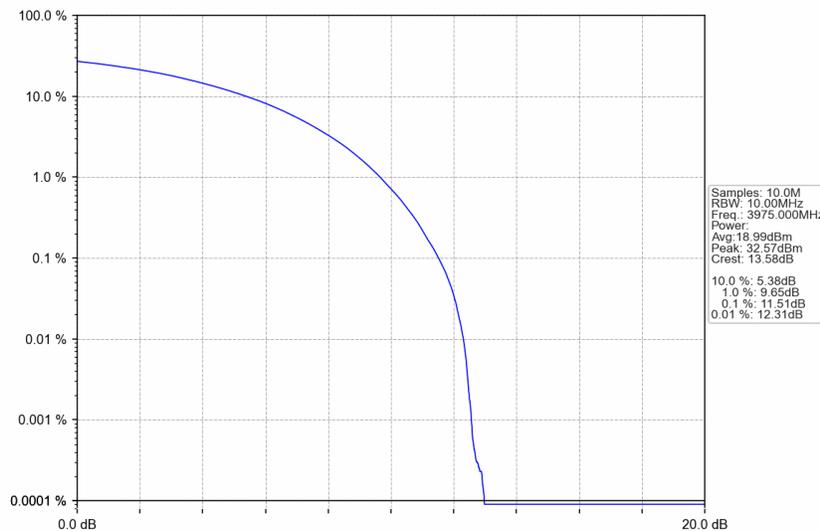
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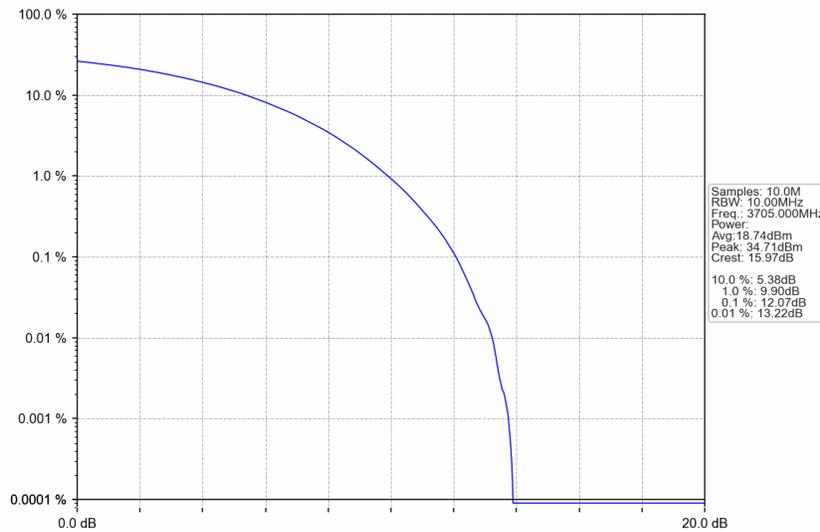
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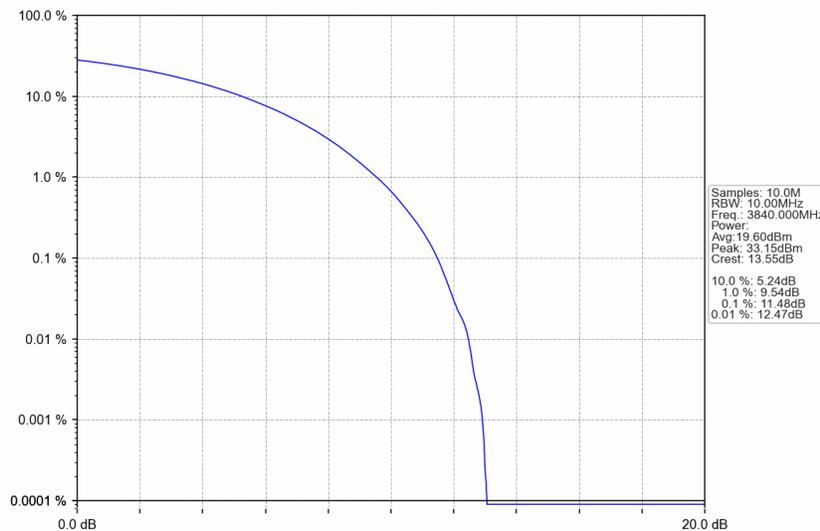
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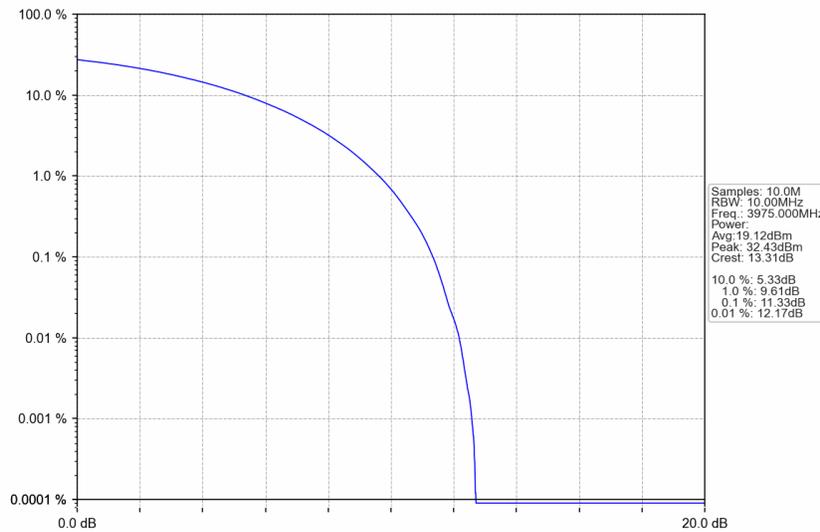
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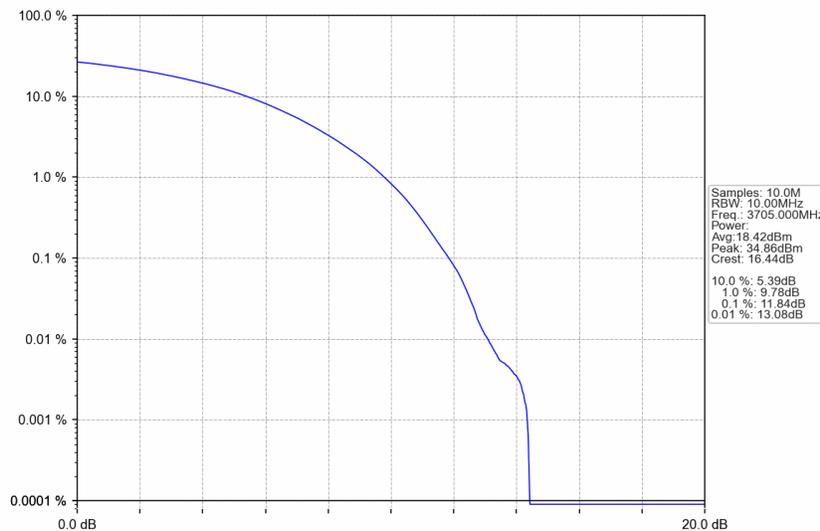
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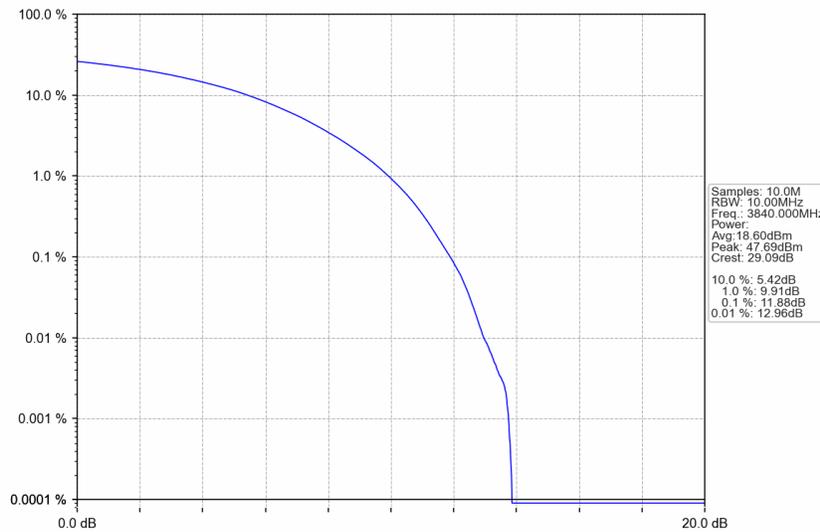
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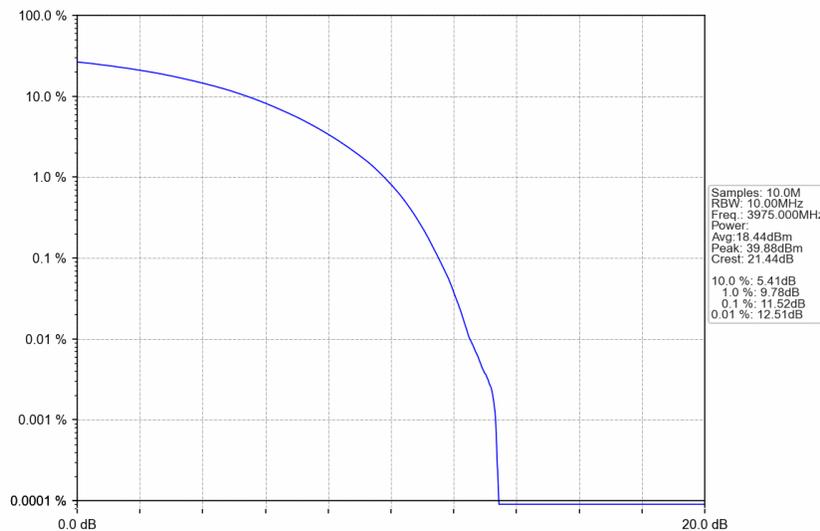
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_3975MHz\_Outer\_Full



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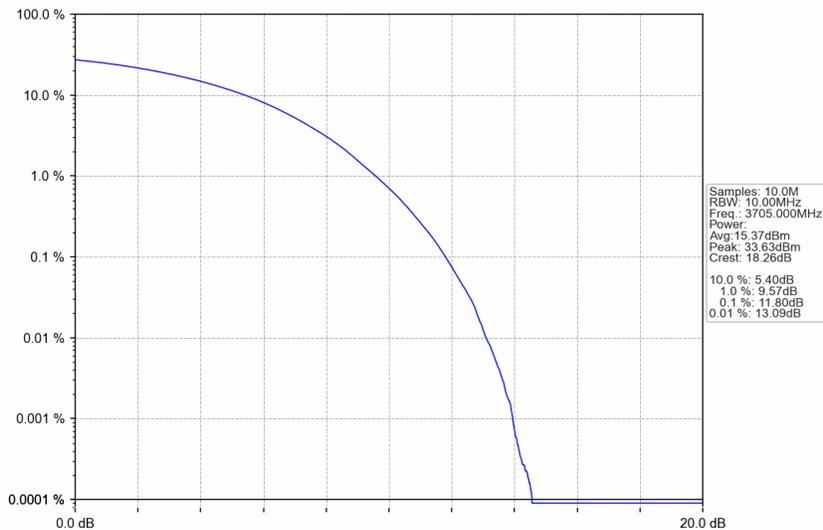
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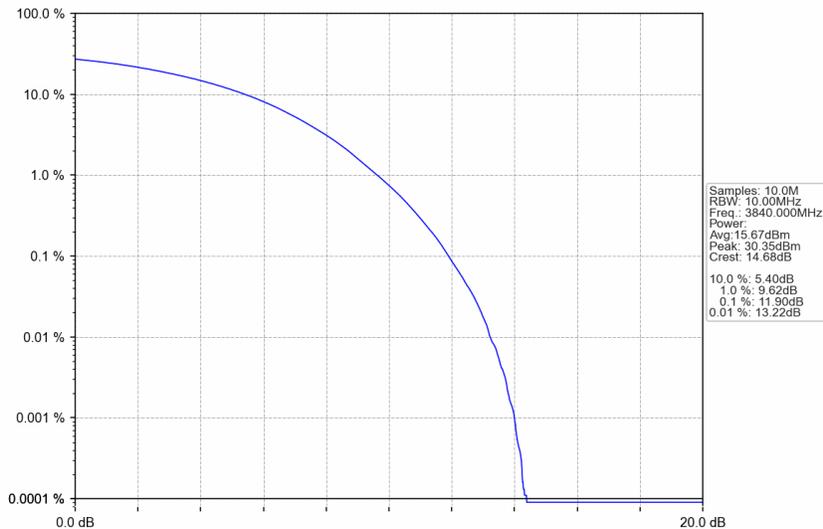
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n77a\_30kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 256 QAM\_3705MHz\_Outer\_Full



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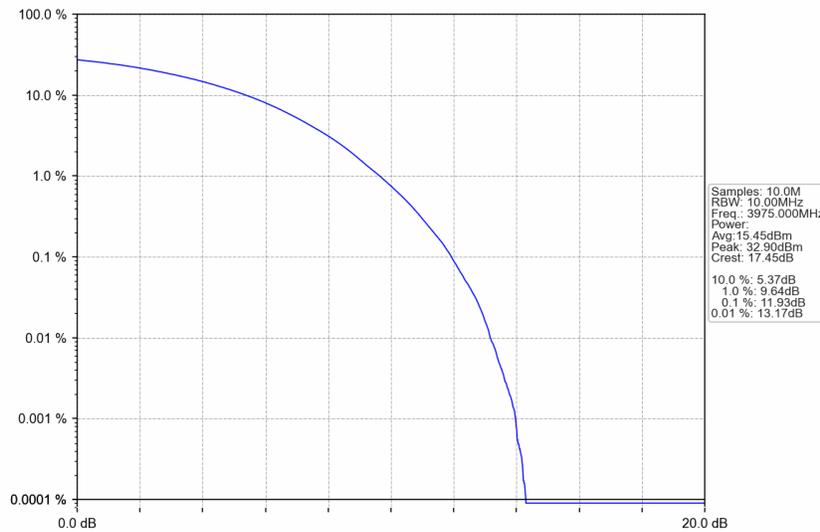


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 542 of 1239

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5.9 30k\_SISO\_15MHz\_NTNV

5.9.1 Test Result

5G NR n77a SCS=30kHz SISO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3707.52	Outer_Full	11.06	/	/	<=13	Pass
	3840	Outer_Full	10.08	/	/	<=13	Pass
	3972.48	Outer_Full	10.66	/	/	<=13	Pass
DFT-s-OFDM QPSK	3707.52	Outer_Full	11.99	/	/	<=13	Pass
	3840	Outer_Full	11.83	/	/	<=13	Pass
	3972.48	Outer_Full	12.15	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3707.52	Outer_Full	12.42	/	/	<=13	Pass
	3840	Outer_Full	12.86	/	/	<=13	Pass
	3972.48	Outer_Full	12.15	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3707.52	Outer_Full	12.97	/	/	<=13	Pass
	3840	Outer_Full	12.39	/	/	<=13	Pass
	3972.48	Outer_Full	12.62	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3707.52	Outer_Full	12.46	/	/	<=13	Pass
	3840	Outer_Full	12.62	/	/	<=13	Pass
	3972.48	Outer_Full	12.59	/	/	<=13	Pass
CP-OFDM QPSK	3707.52	Outer_Full	11.82	/	/	<=13	Pass
	3840	Outer_Full	11.92	/	/	<=13	Pass
	3972.48	Outer_Full	11.14	/	/	<=13	Pass
CP-OFDM 16 QAM	3707.52	Outer_Full	11.82	/	/	<=13	Pass
	3840	Outer_Full	11.54	/	/	<=13	Pass
	3972.48	Outer_Full	11.17	/	/	<=13	Pass
CP-OFDM 64 QAM	3707.52	Outer_Full	11.91	/	/	<=13	Pass
	3840	Outer_Full	11.81	/	/	<=13	Pass
	3972.48	Outer_Full	11.83	/	/	<=13	Pass
CP-OFDM 256 QAM	3707.52	Outer_Full	11.75	/	/	<=13	Pass
	3840	Outer_Full	11.95	/	/	<=13	Pass
	3972.48	Outer_Full	11.95	/	/	<=13	Pass

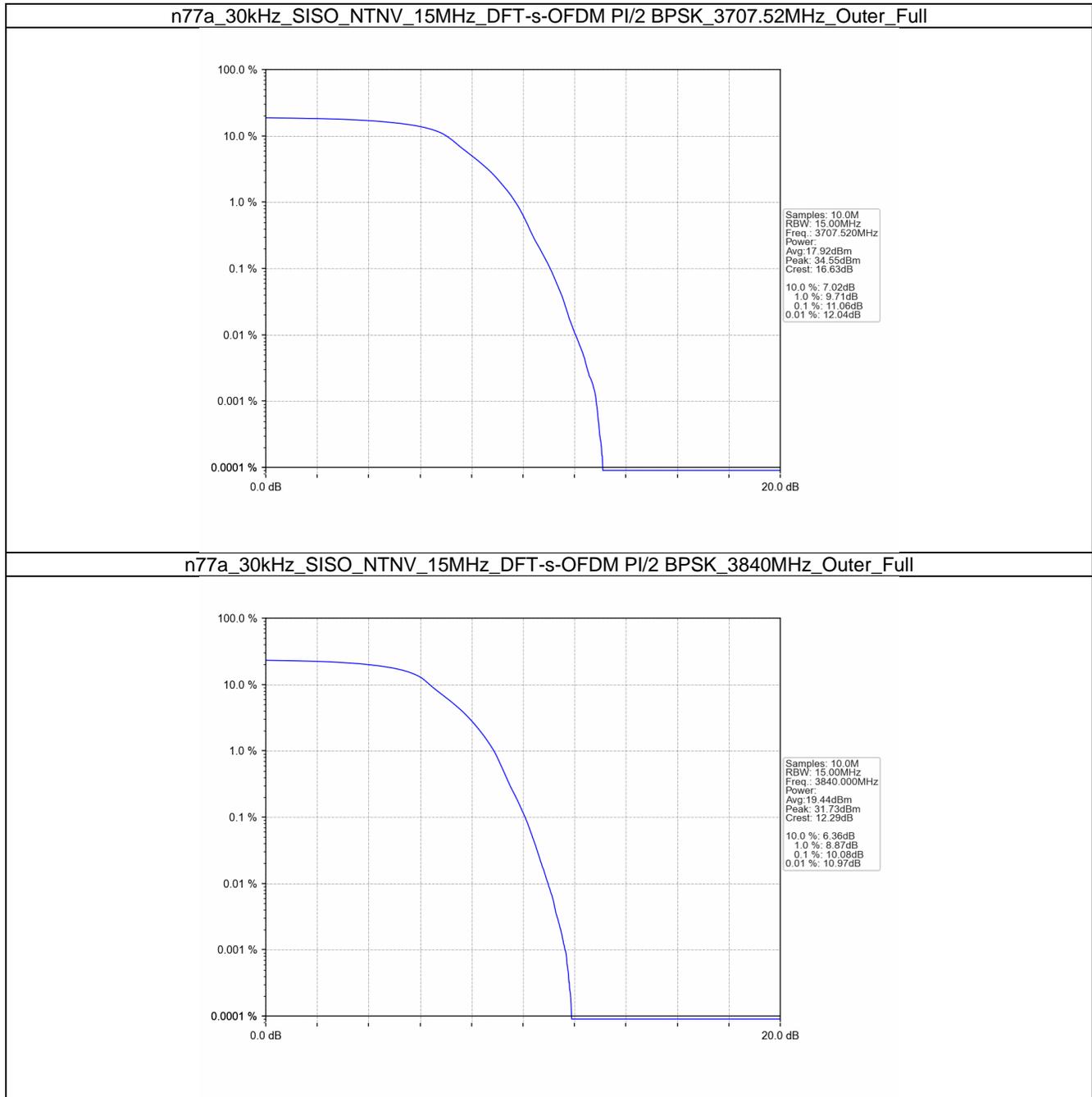


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5.9.2 Test Graph

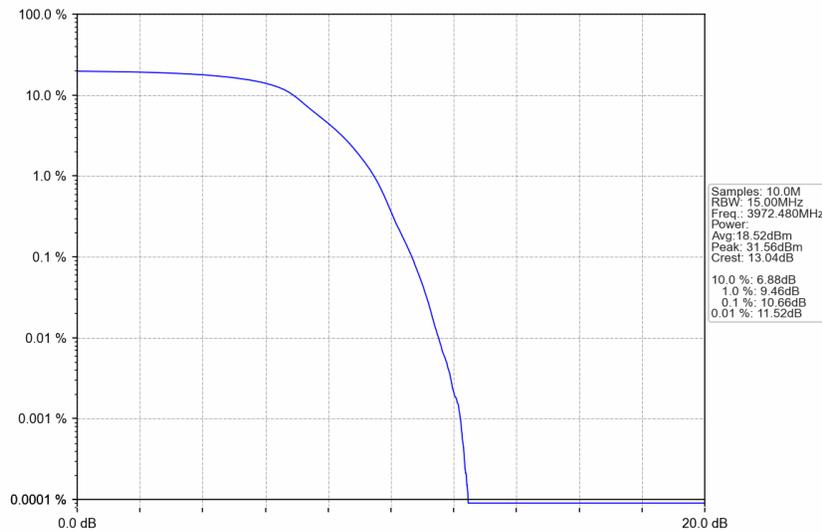


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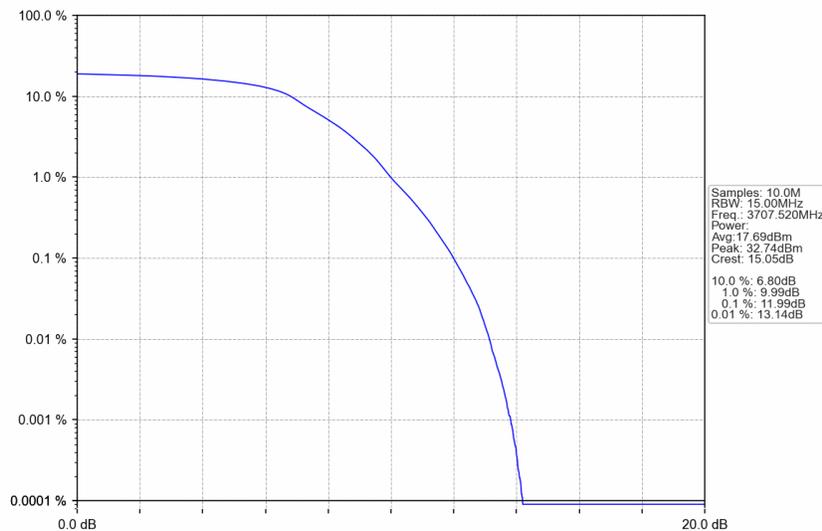
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3707.52MHz\_Outer\_Full

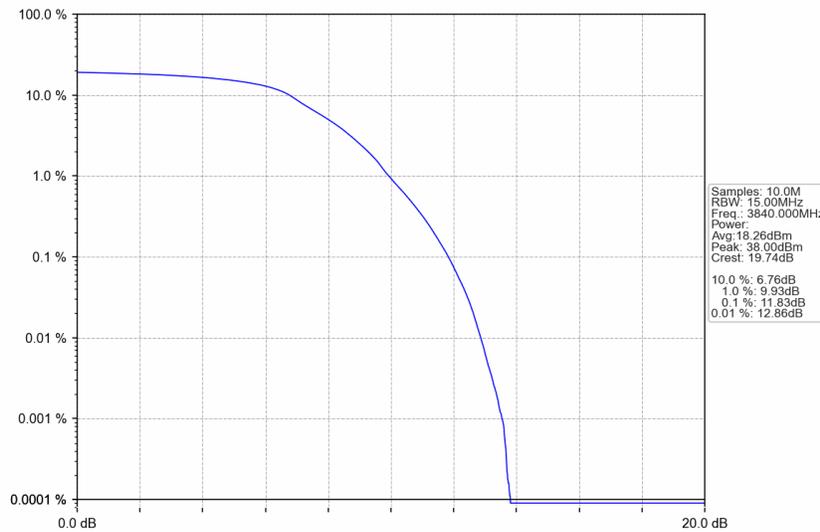


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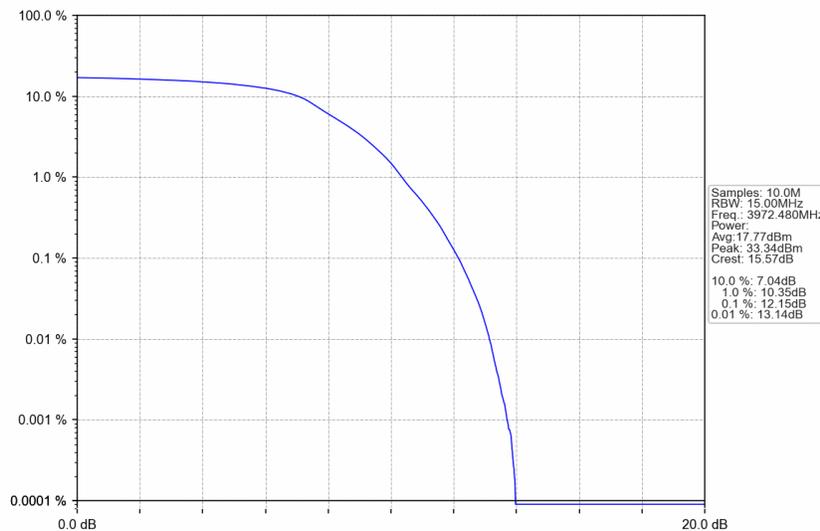
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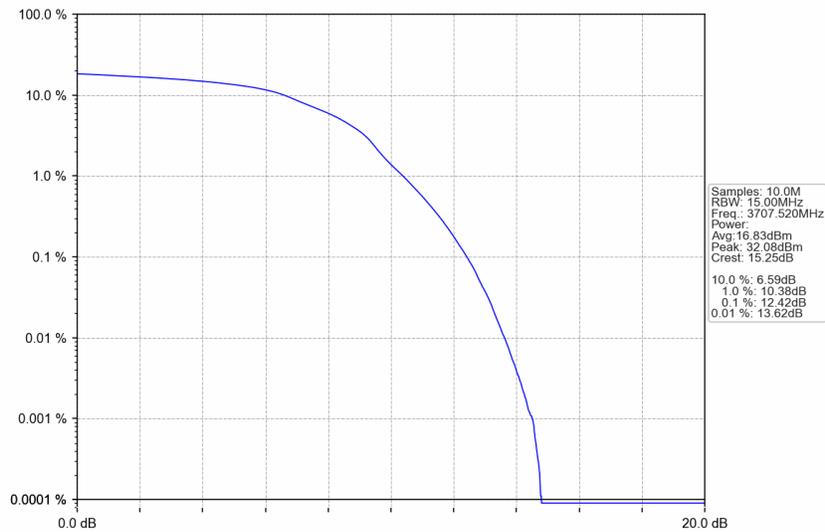
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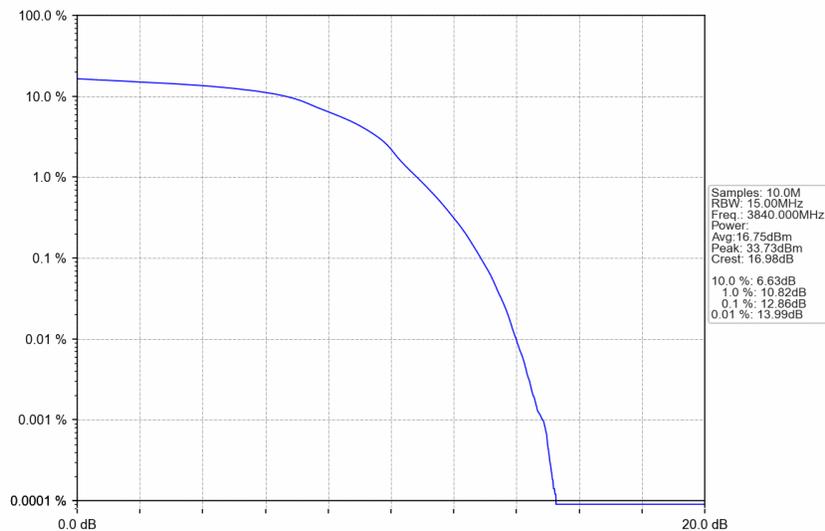
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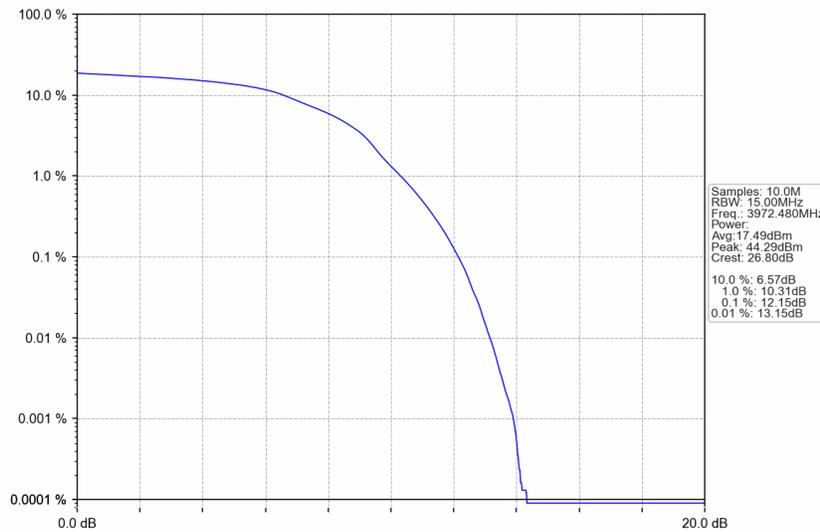
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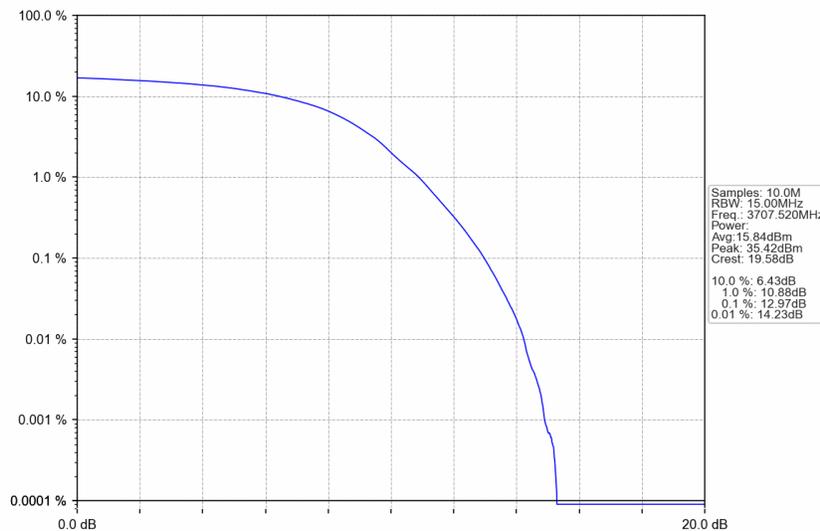
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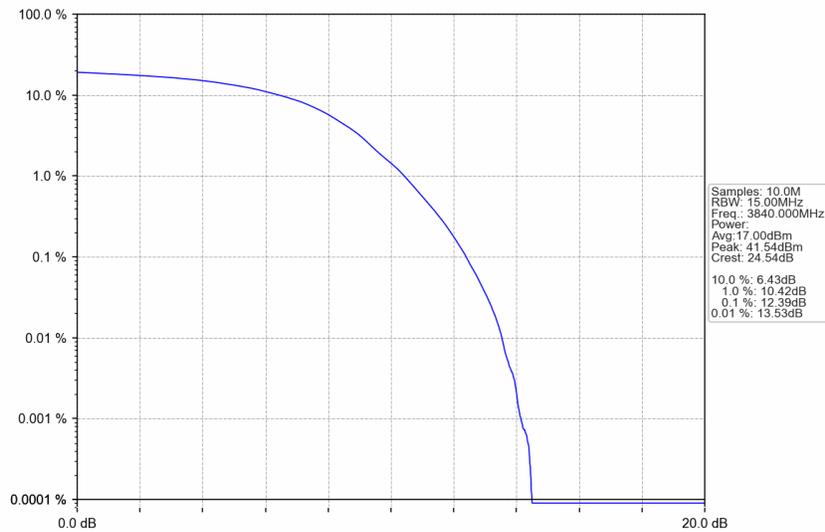


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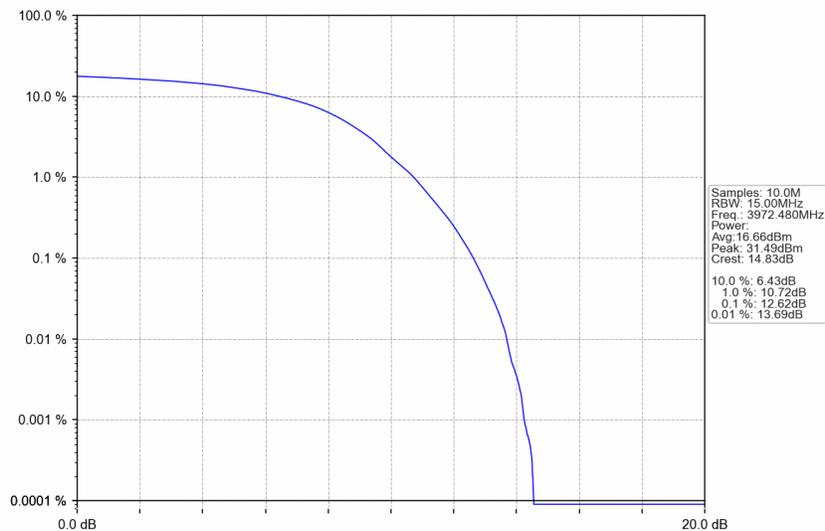
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_3972.48MHz\_Outer\_Full

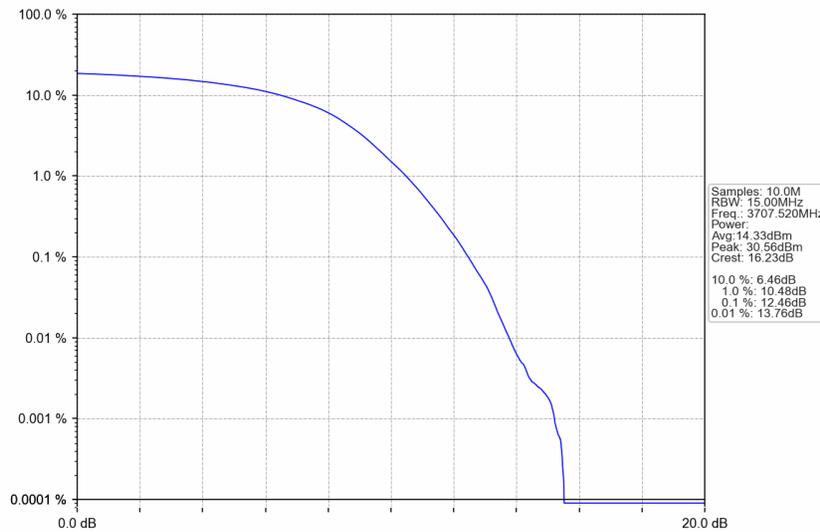


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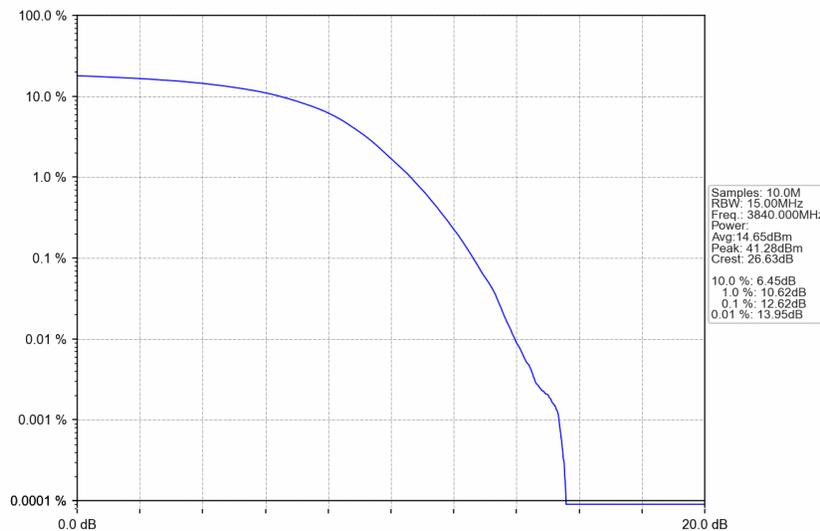
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3707.52MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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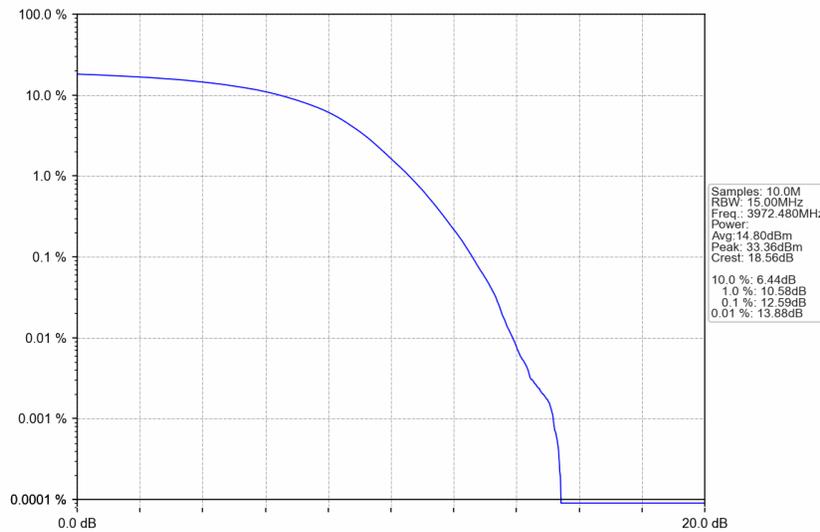
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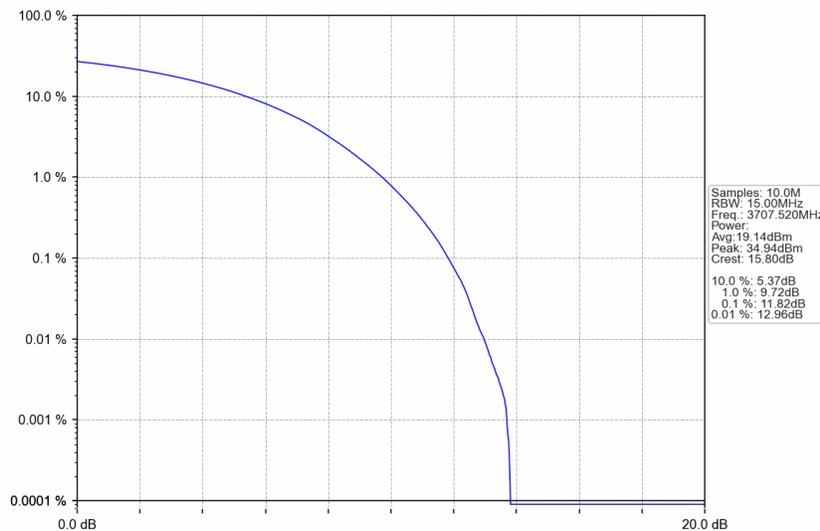
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3972.48MHz\_Outer\_Full



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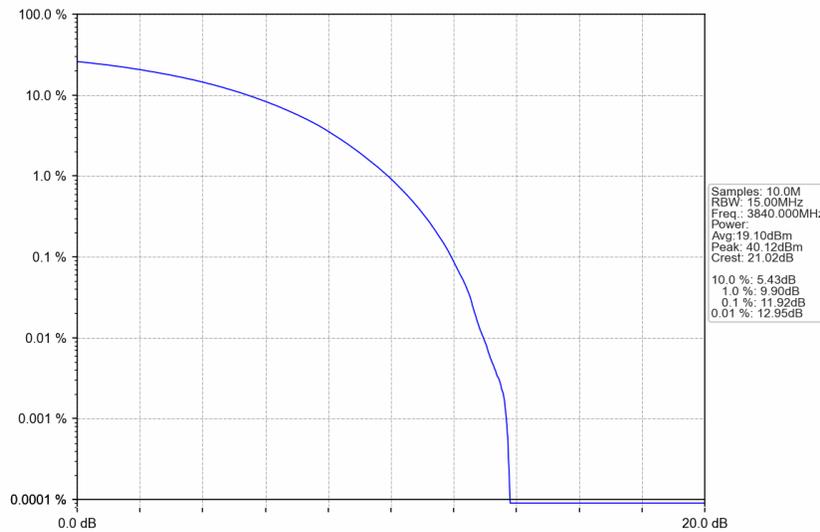
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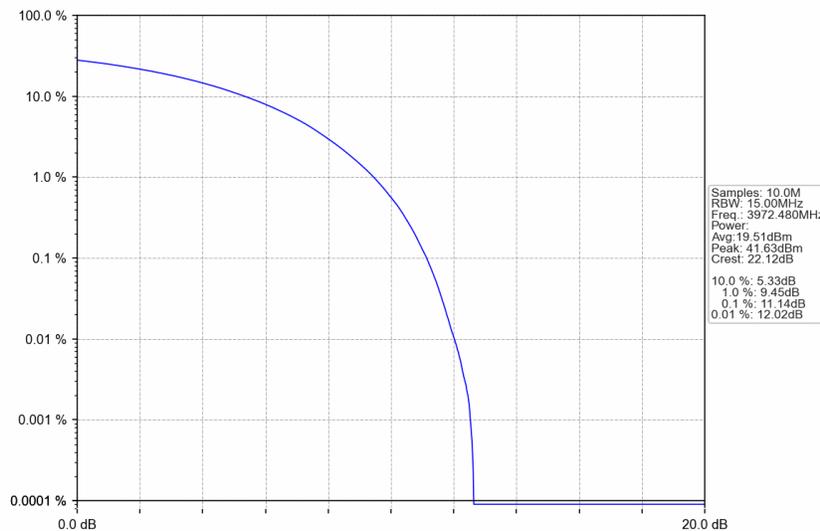
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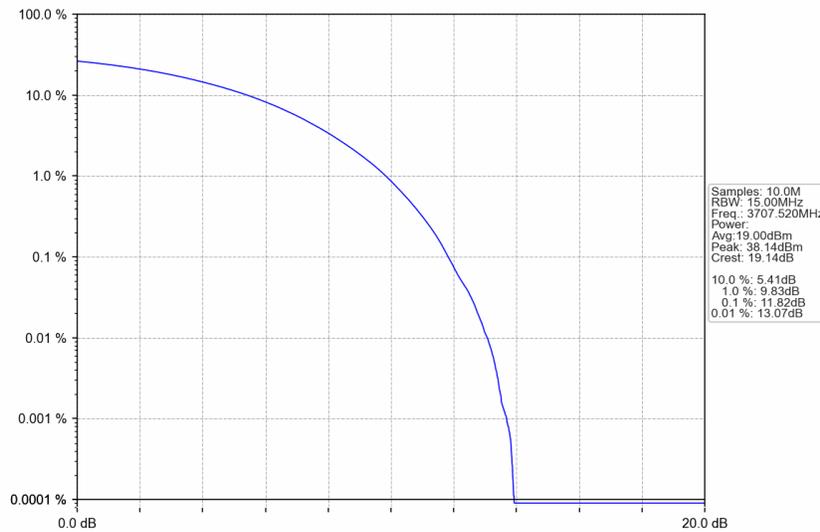
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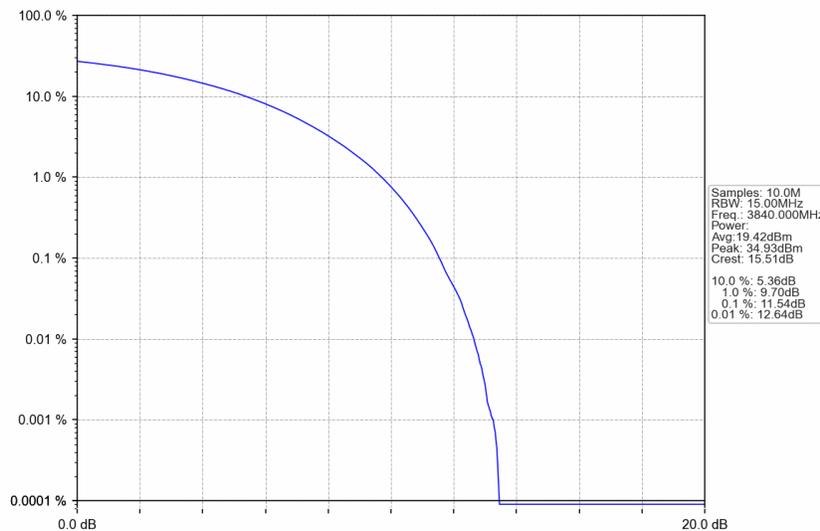
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full



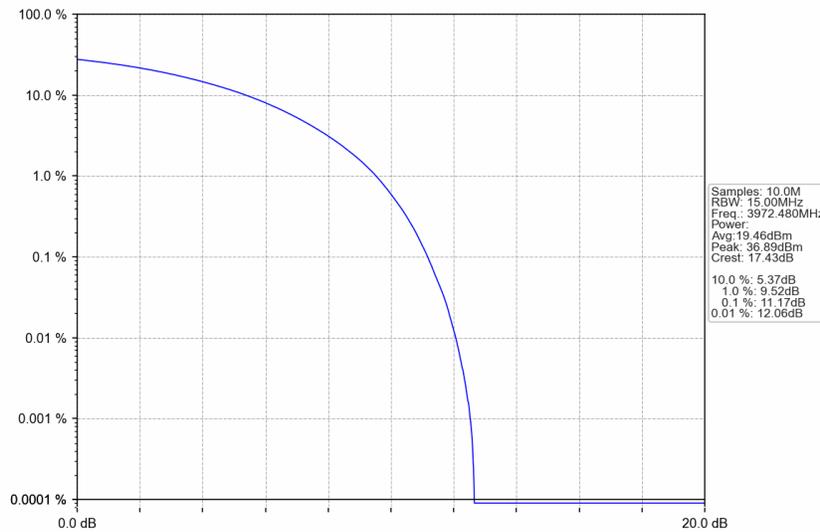
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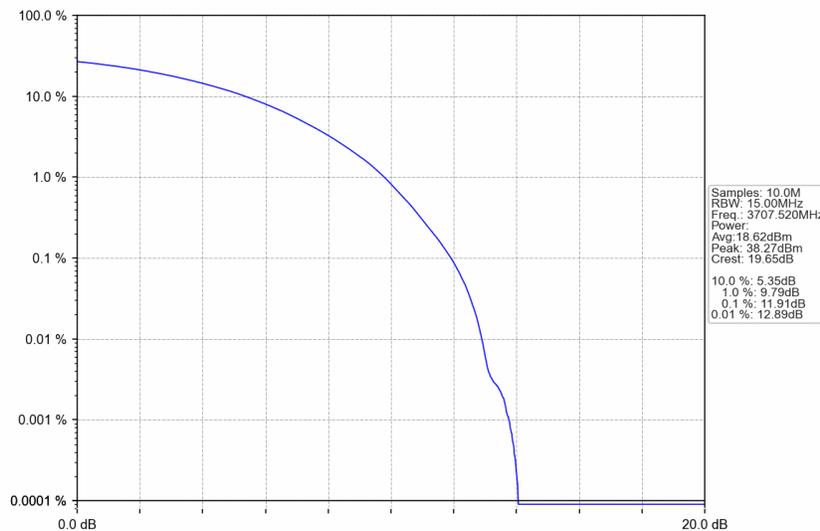
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n77a\_30kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_3707.52MHz\_Outer\_Full



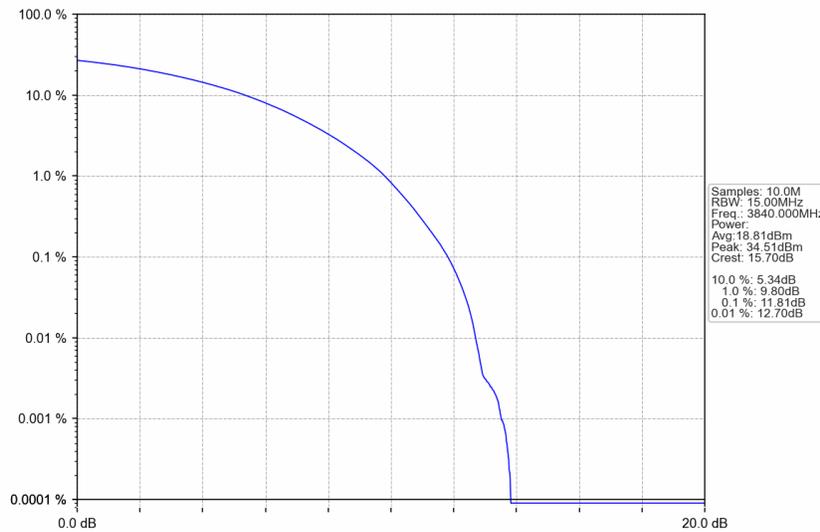
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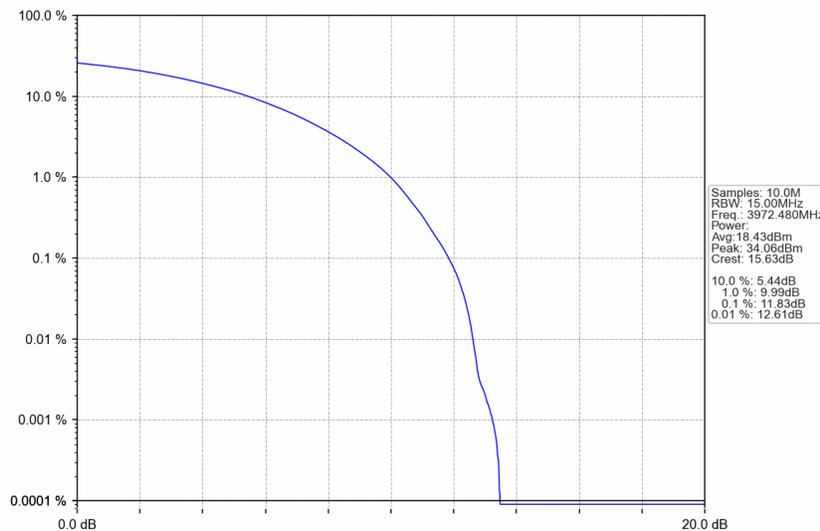
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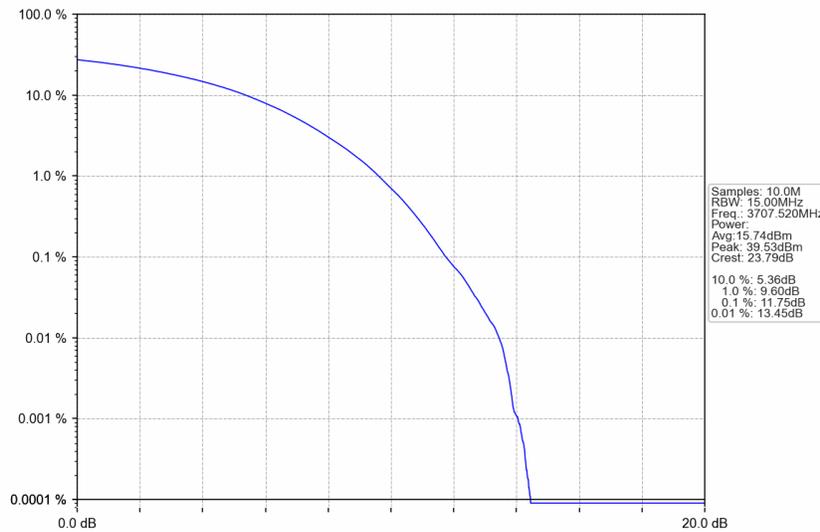
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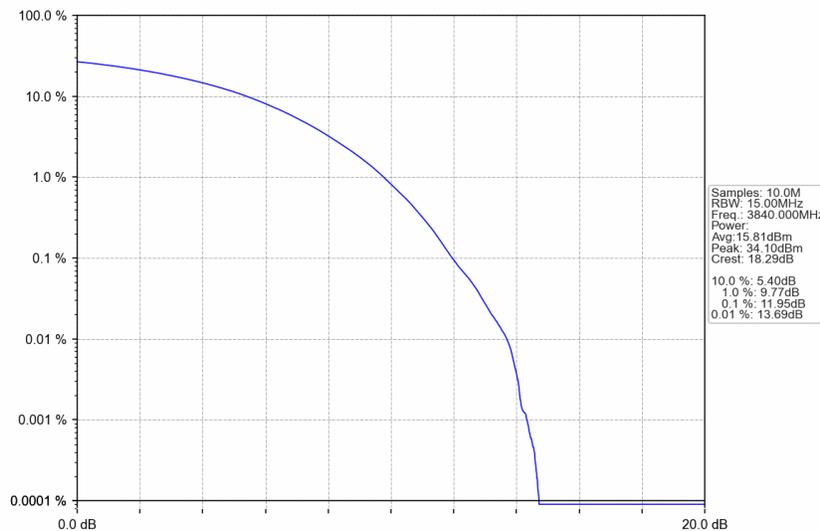
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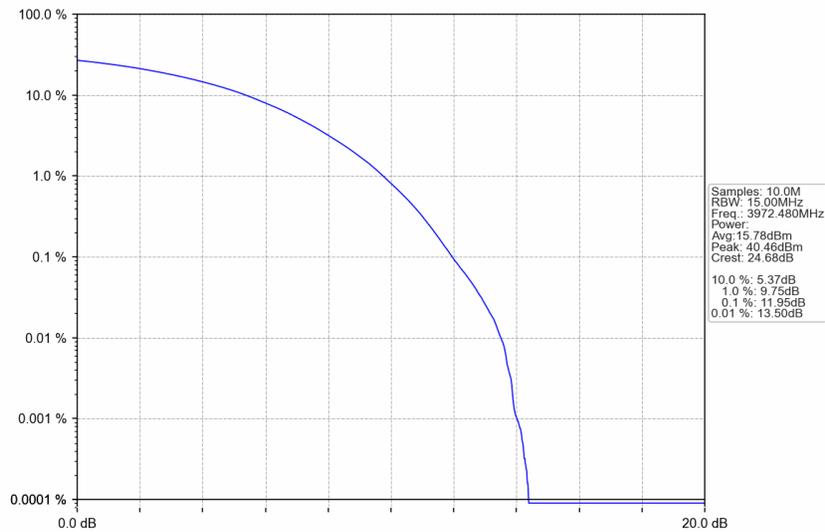


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 557 of 1239

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5.10 30k\_SISO\_20MHz\_NTNV

5.10.1 Test Result

5G NR n77a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	11.92	/	/	<=13	Pass
	3840	Outer_Full	10.11	/	/	<=13	Pass
	3969.99	Outer_Full	10.53	/	/	<=13	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	12.13	/	/	<=13	Pass
	3840	Outer_Full	11.74	/	/	<=13	Pass
	3969.99	Outer_Full	12.10	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	12.02	/	/	<=13	Pass
	3840	Outer_Full	12.65	/	/	<=13	Pass
	3969.99	Outer_Full	12.40	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	12.88	/	/	<=13	Pass
	3840	Outer_Full	12.70	/	/	<=13	Pass
	3969.99	Outer_Full	12.99	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	13.00	/	/	<=13	Pass
	3840	Outer_Full	12.60	/	/	<=13	Pass
	3969.99	Outer_Full	12.45	/	/	<=13	Pass
CP-OFDM QPSK	3710.01	Outer_Full	11.93	/	/	<=13	Pass
	3840	Outer_Full	11.80	/	/	<=13	Pass
	3969.99	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	11.74	/	/	<=13	Pass
	3840	Outer_Full	11.66	/	/	<=13	Pass
	3969.99	Outer_Full	11.49	/	/	<=13	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	11.89	/	/	<=13	Pass
	3840	Outer_Full	12.06	/	/	<=13	Pass
	3969.99	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	11.99	/	/	<=13	Pass
	3840	Outer_Full	12.03	/	/	<=13	Pass
	3969.99	Outer_Full	12.06	/	/	<=13	Pass

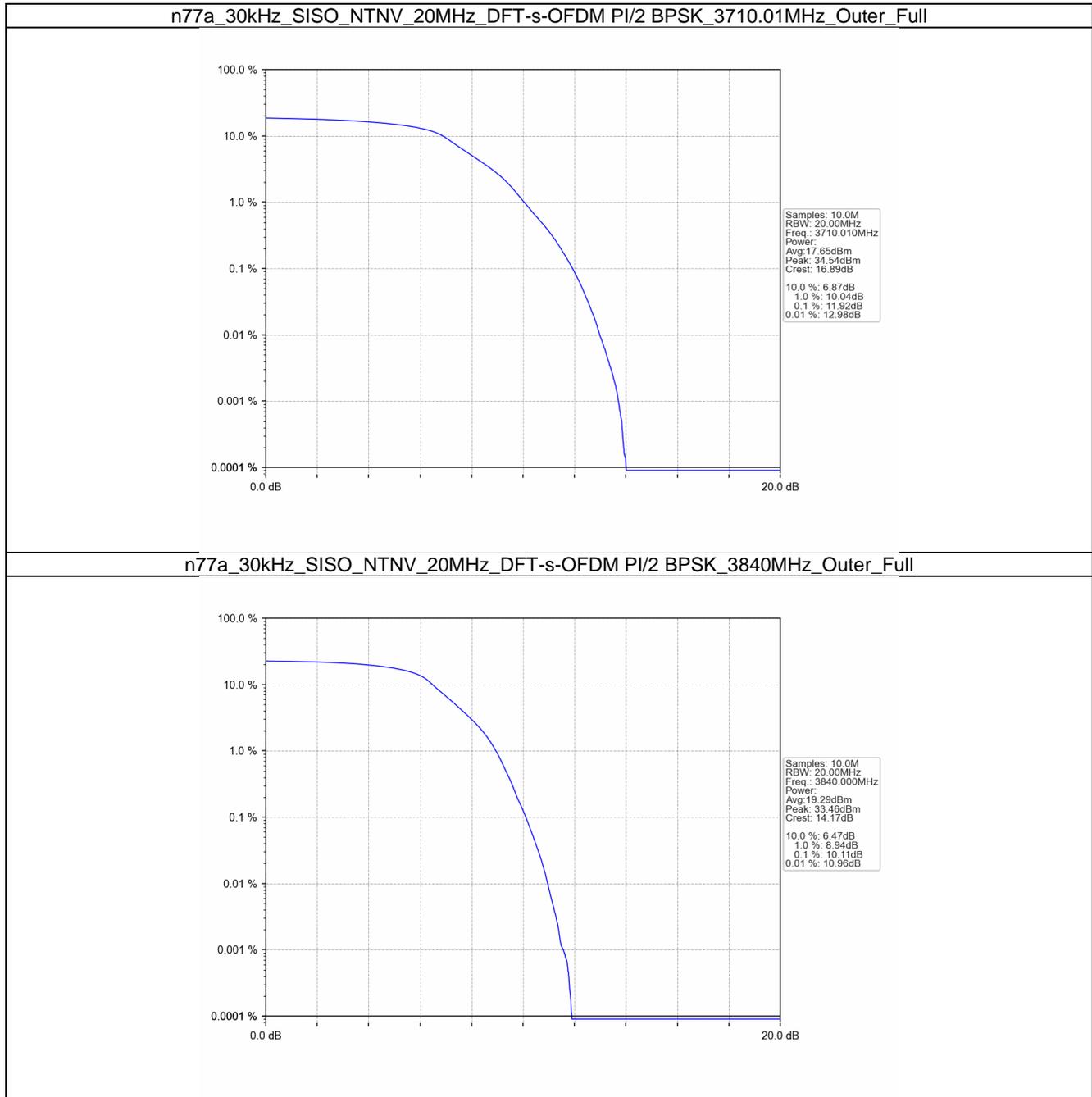


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5.10.2 Test Graph



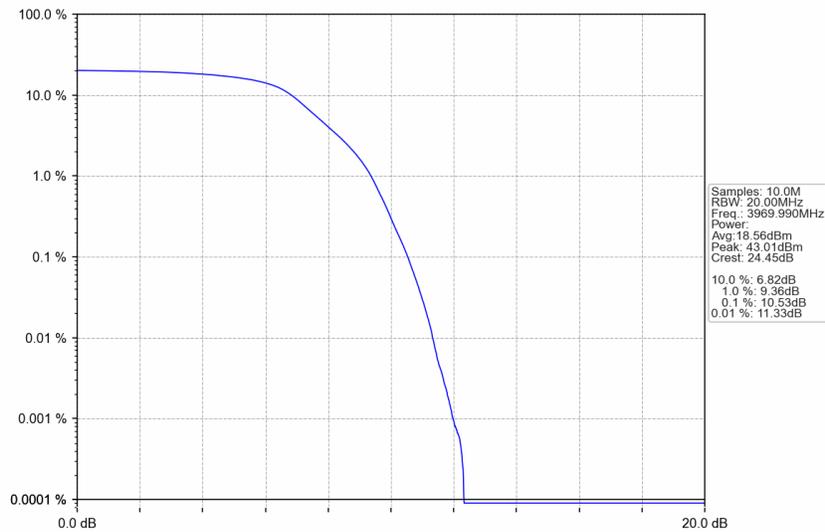
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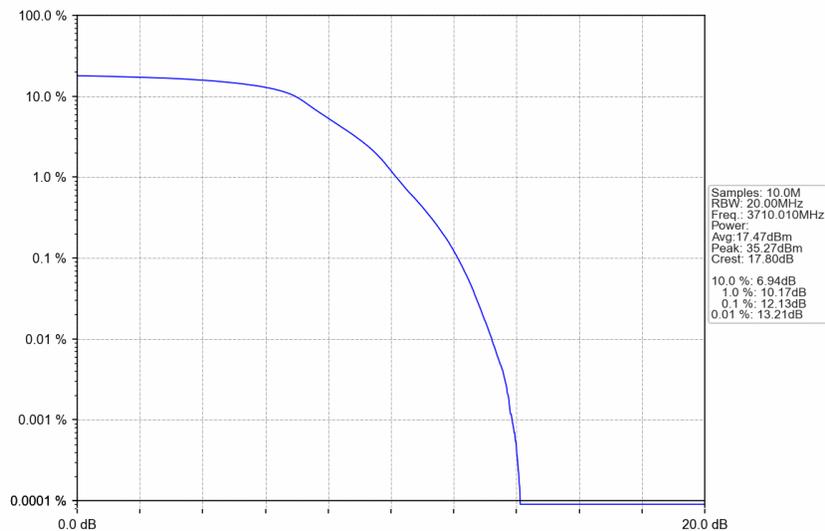
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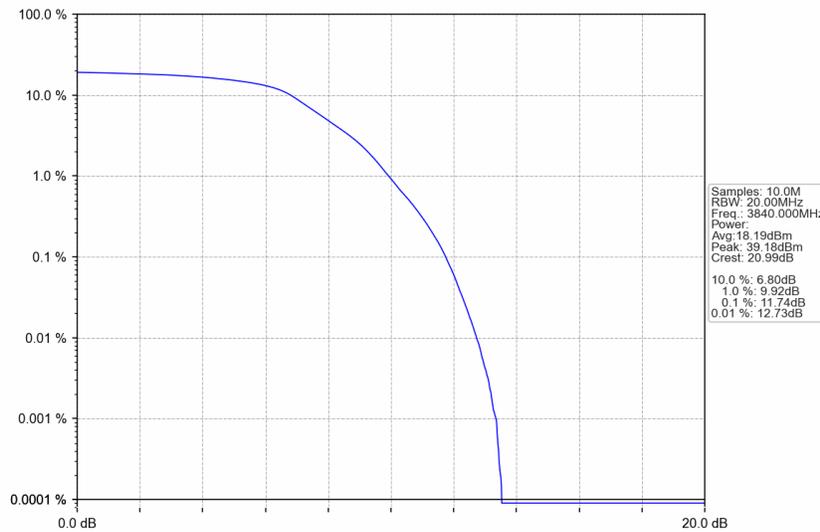
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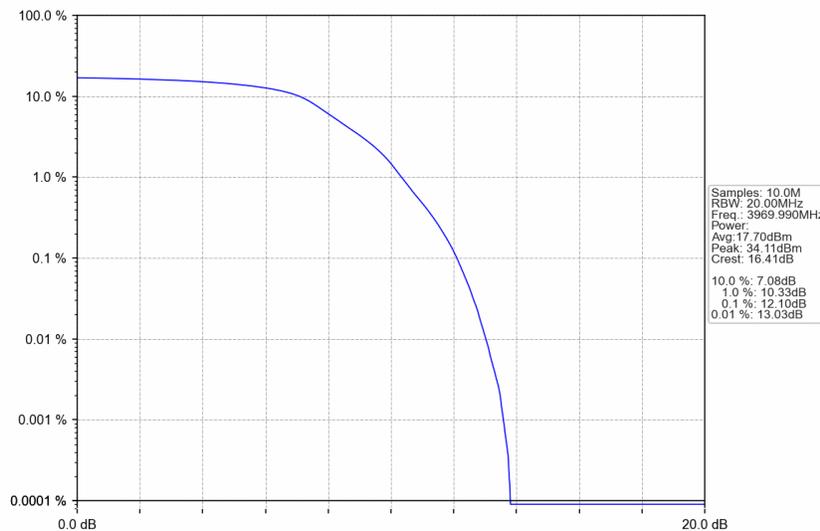
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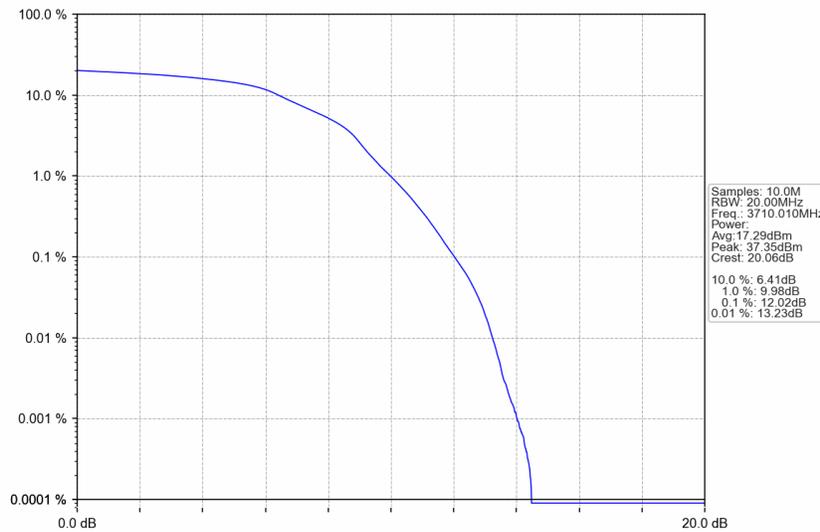
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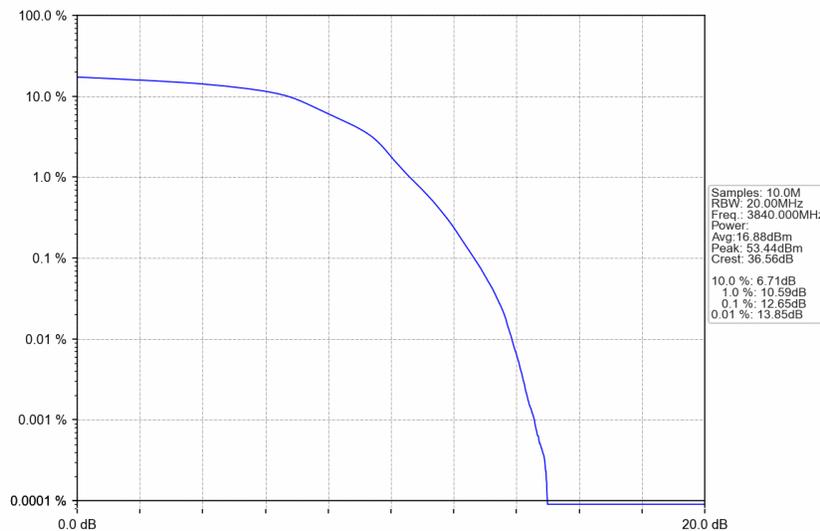
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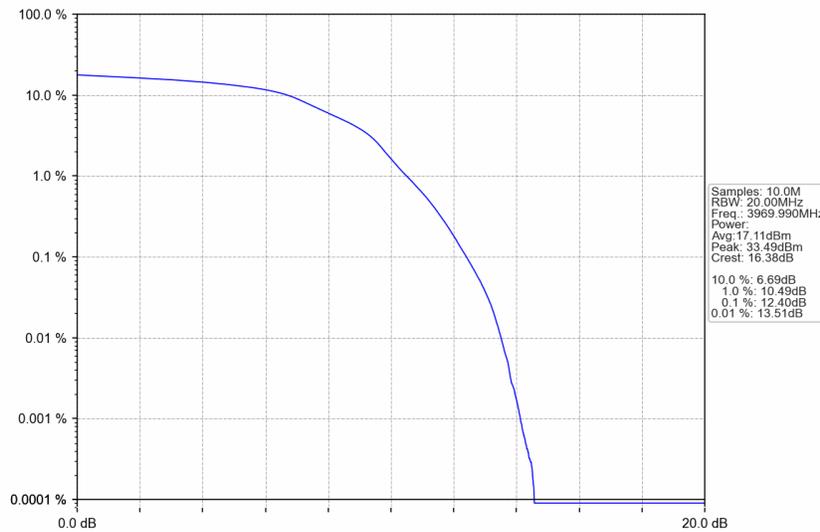
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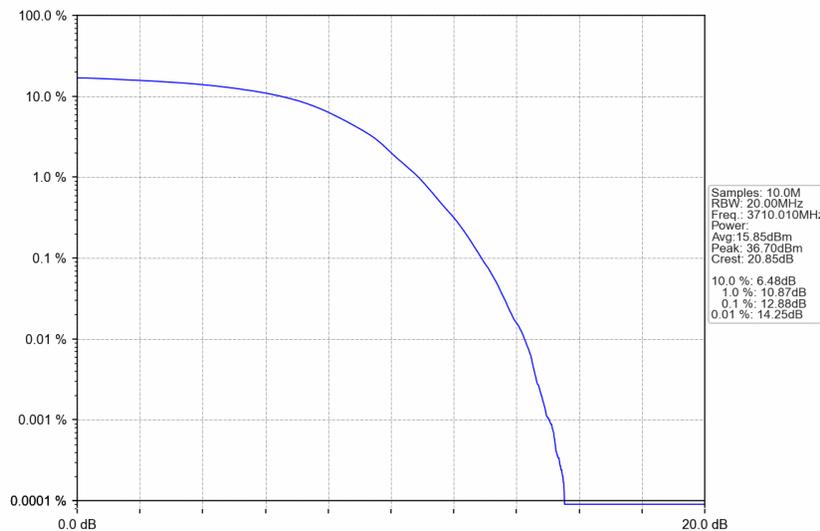
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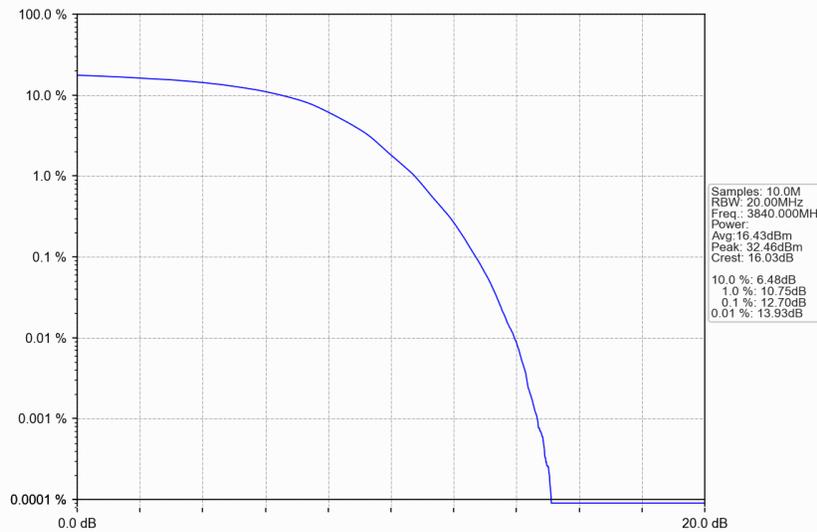
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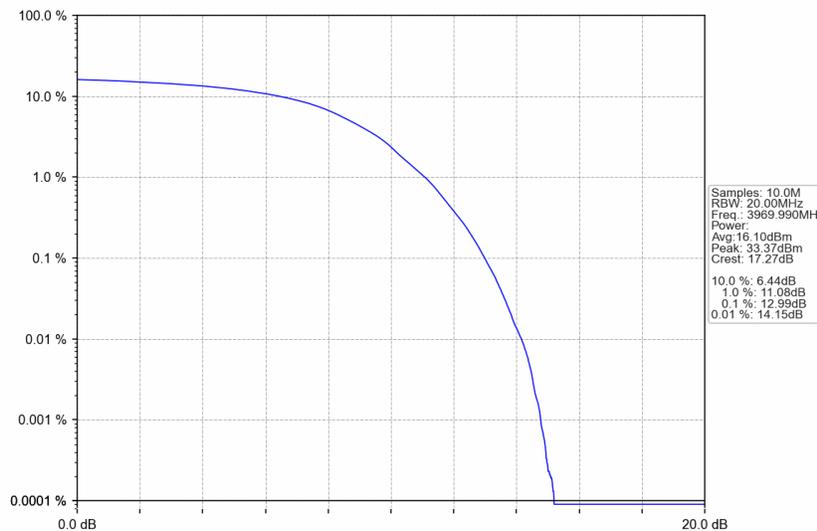
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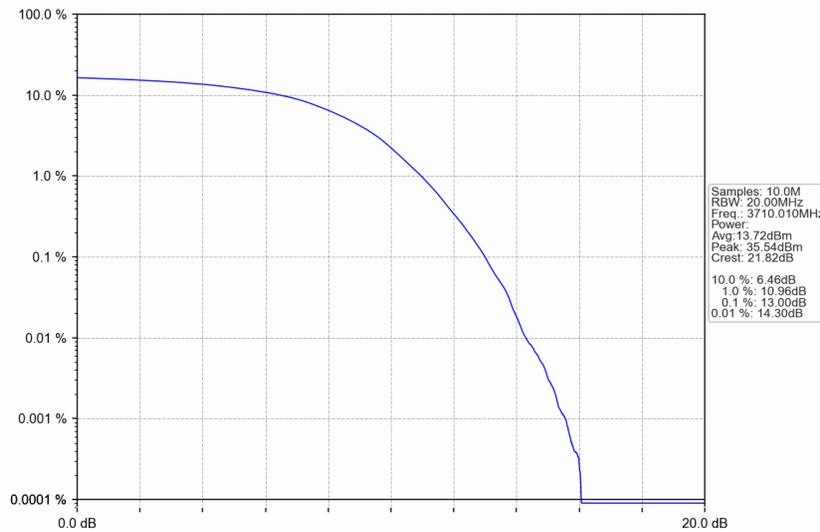
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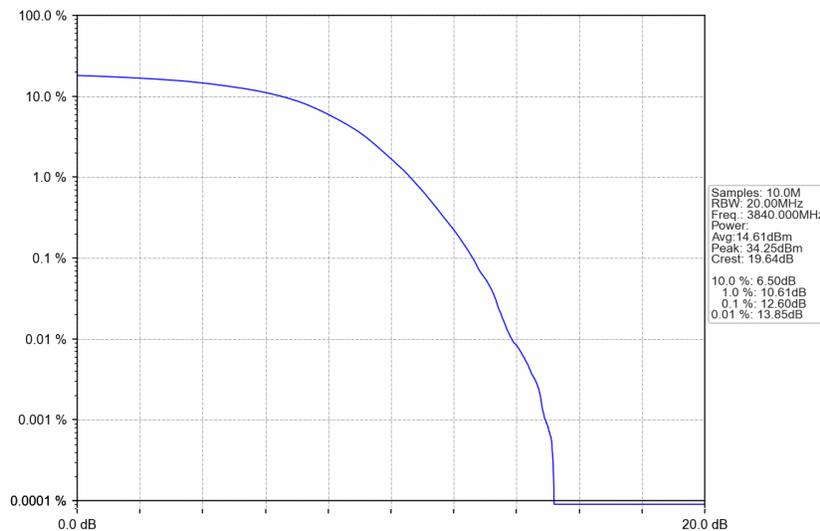
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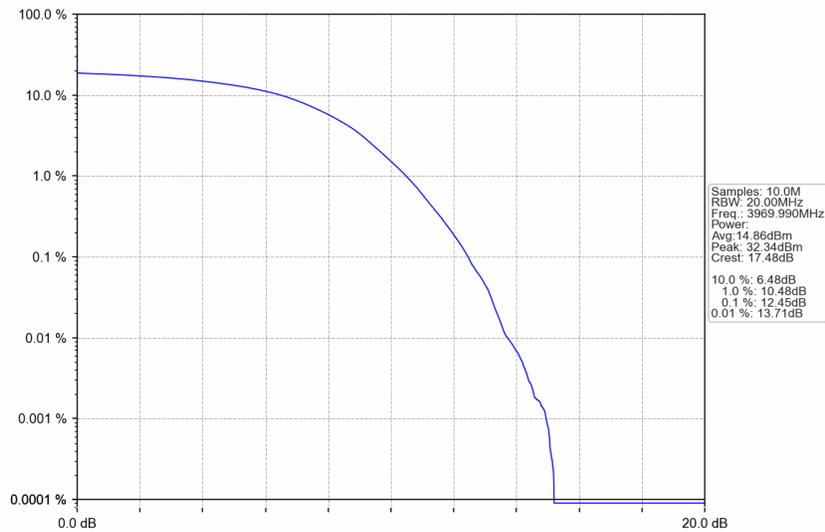
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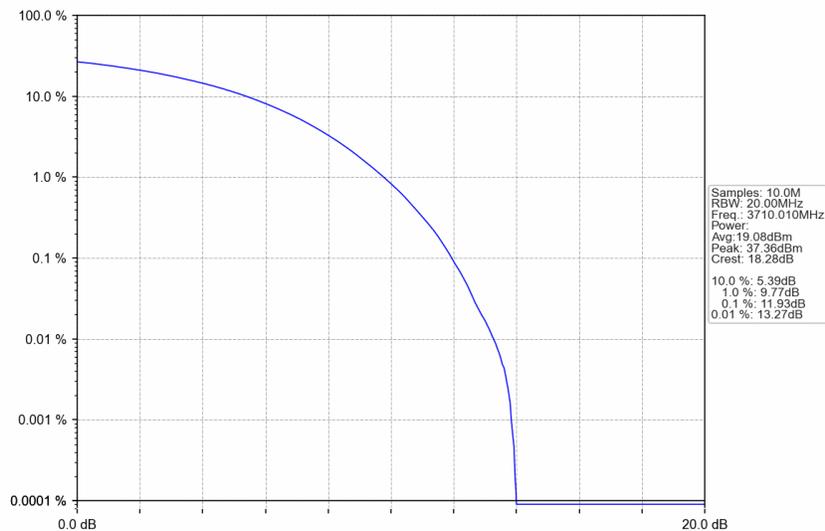
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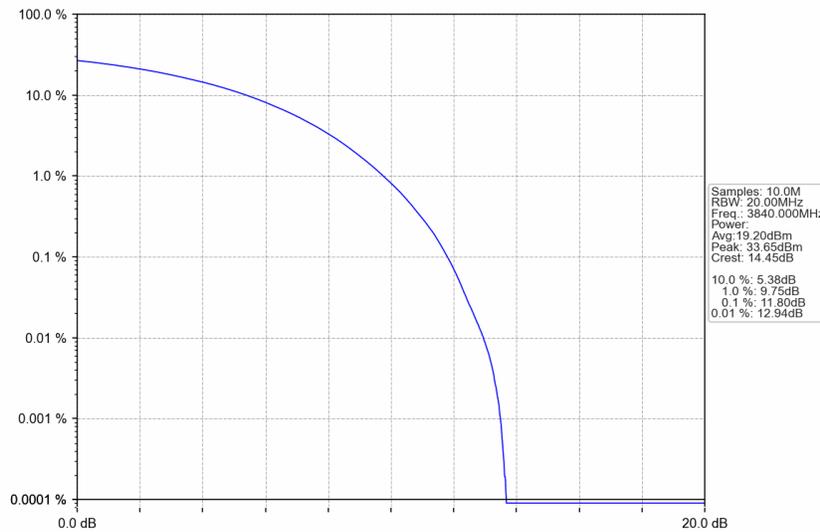
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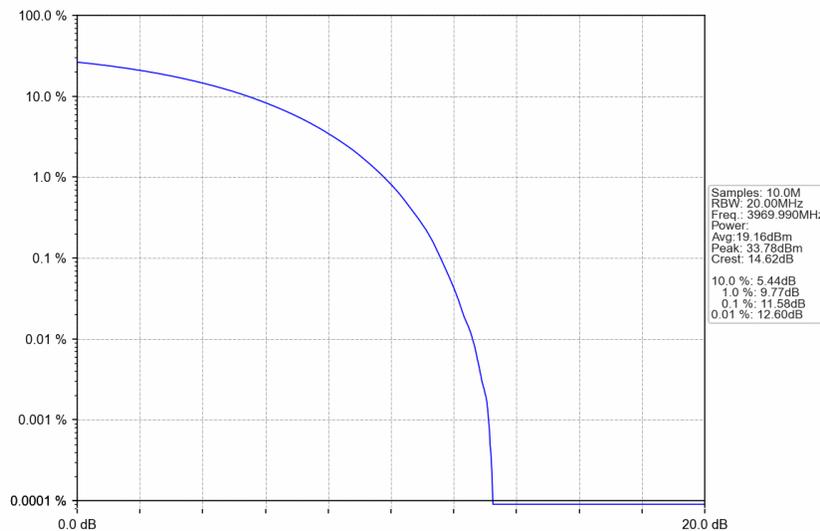
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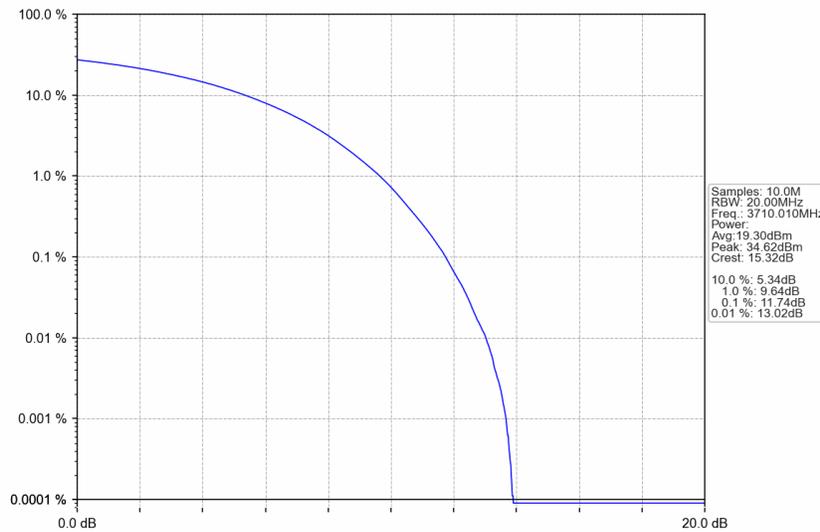
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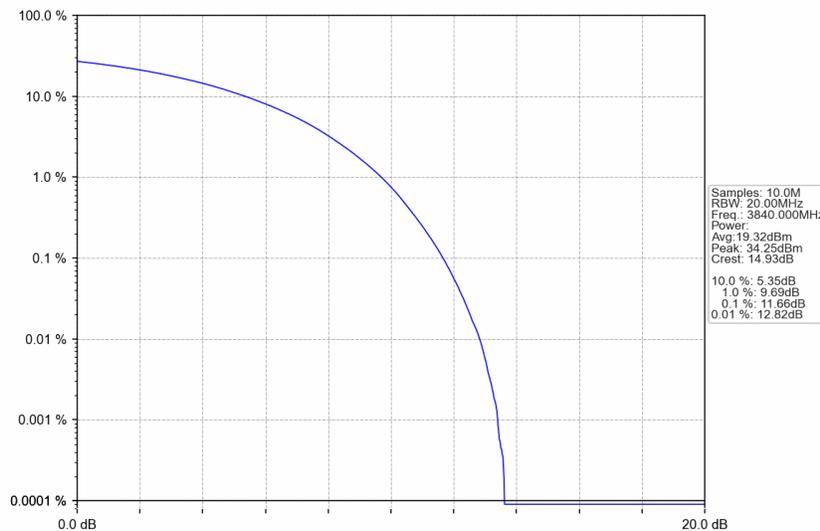
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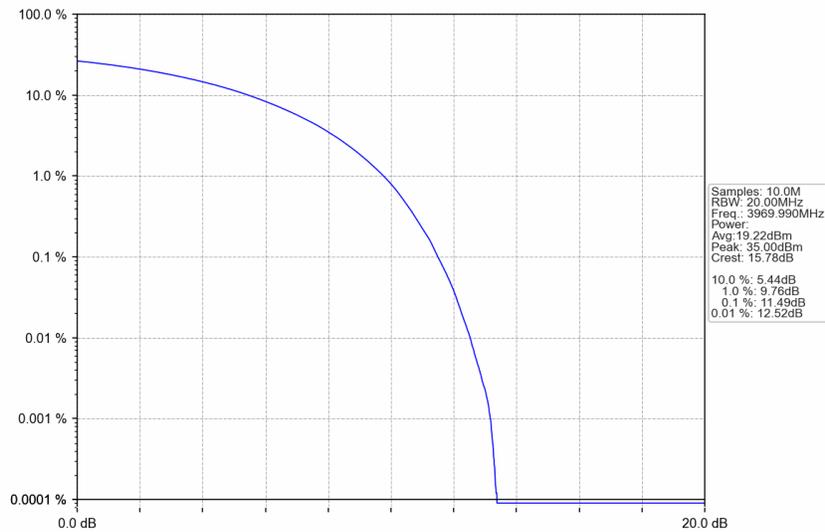
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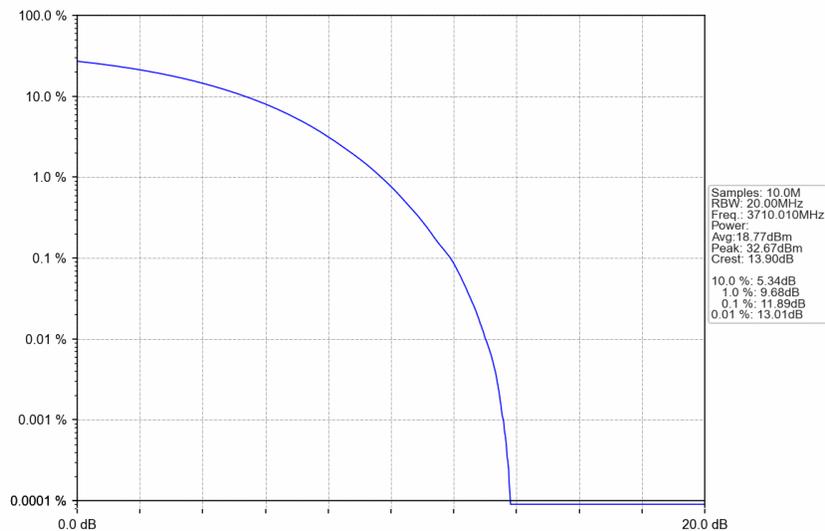
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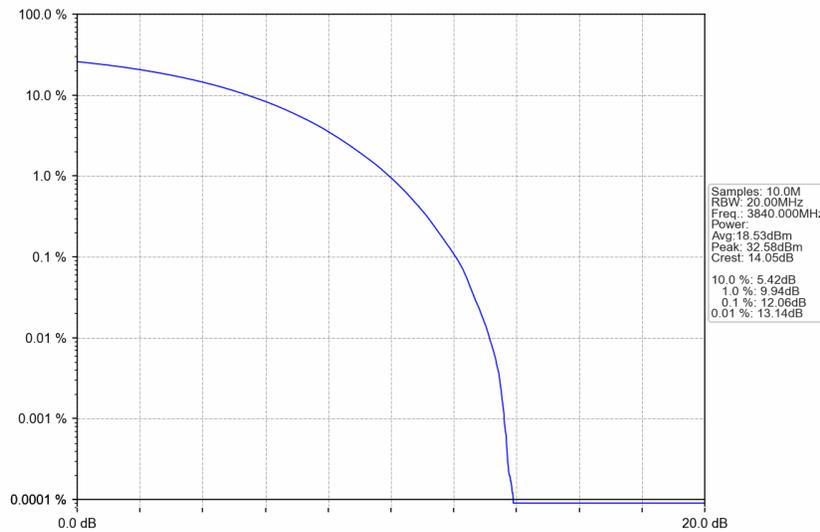
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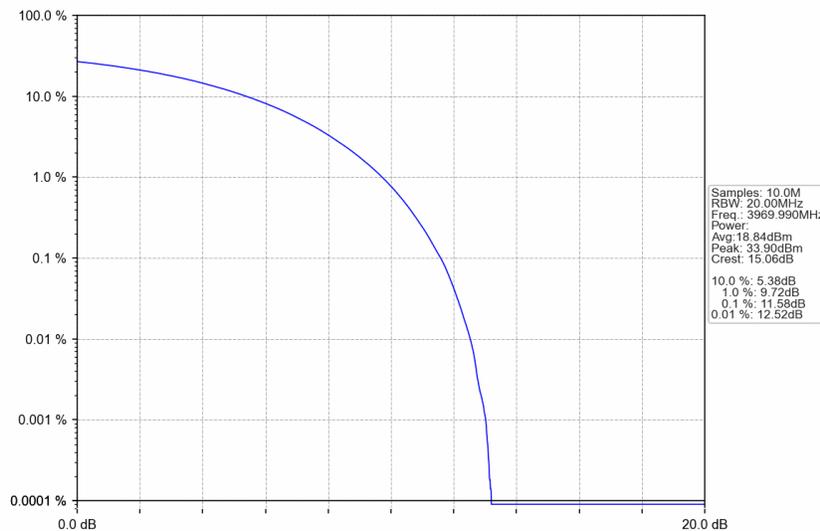
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n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3969.99MHz\_Outer\_Full



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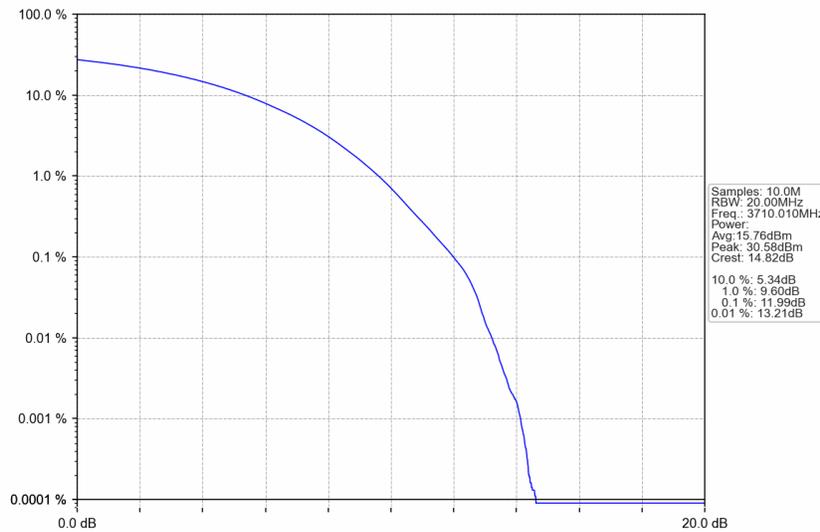
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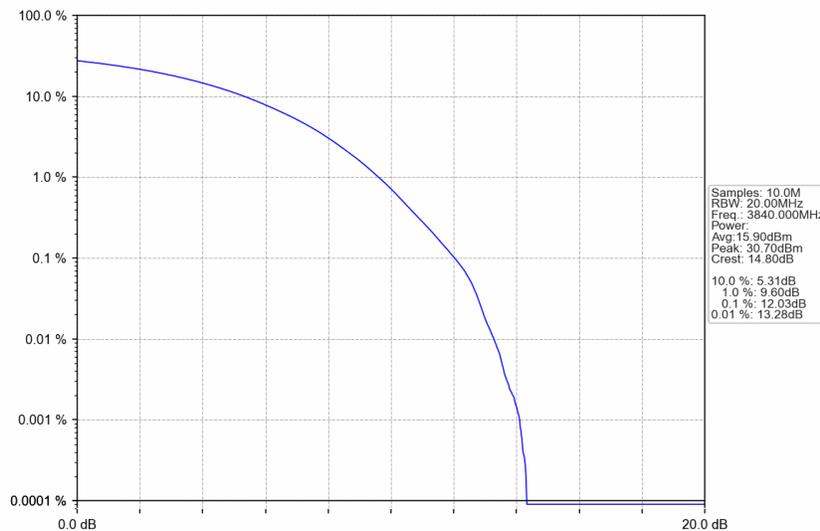
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n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3710.01MHz\_Outer\_Full



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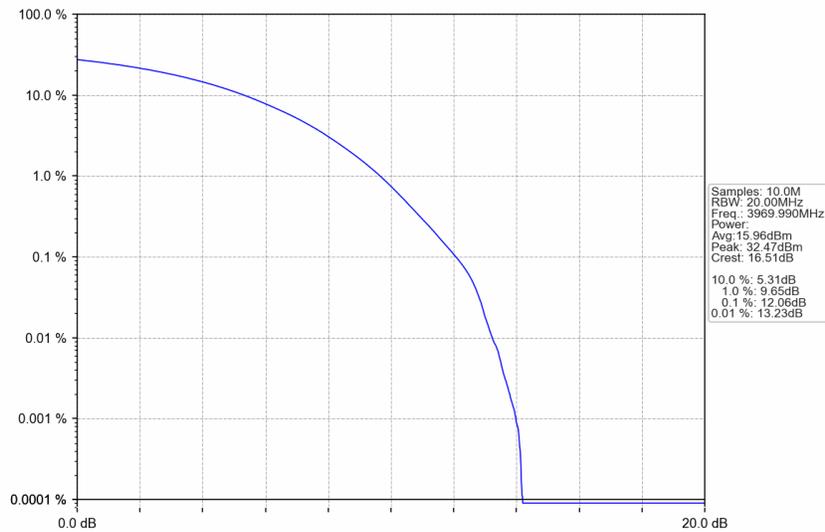


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 572 of 1239

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5.11 30k\_SISO\_25MHz\_NTNV

5.11.1 Test Result

5G NR n77a SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3712.5	Outer_Full	11.61	/	/	<=13	Pass
	3840	Outer_Full	9.93	/	/	<=13	Pass
	3967.5	Outer_Full	9.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	3712.5	Outer_Full	11.51	/	/	<=13	Pass
	3840	Outer_Full	12.12	/	/	<=13	Pass
	3967.5	Outer_Full	11.47	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3712.5	Outer_Full	12.38	/	/	<=13	Pass
	3840	Outer_Full	12.46	/	/	<=13	Pass
	3967.5	Outer_Full	12.99	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3712.5	Outer_Full	12.88	/	/	<=13	Pass
	3840	Outer_Full	12.62	/	/	<=13	Pass
	3967.5	Outer_Full	12.84	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3712.5	Outer_Full	12.65	/	/	<=13	Pass
	3840	Outer_Full	12.55	/	/	<=13	Pass
	3967.5	Outer_Full	12.68	/	/	<=13	Pass
CP-OFDM QPSK	3712.5	Outer_Full	11.95	/	/	<=13	Pass
	3840	Outer_Full	11.78	/	/	<=13	Pass
	3967.5	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 16 QAM	3712.5	Outer_Full	11.70	/	/	<=13	Pass
	3840	Outer_Full	11.67	/	/	<=13	Pass
	3967.5	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 64 QAM	3712.5	Outer_Full	11.61	/	/	<=13	Pass
	3840	Outer_Full	11.92	/	/	<=13	Pass
	3967.5	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 256 QAM	3712.5	Outer_Full	11.71	/	/	<=13	Pass
	3840	Outer_Full	11.68	/	/	<=13	Pass
	3967.5	Outer_Full	11.70	/	/	<=13	Pass

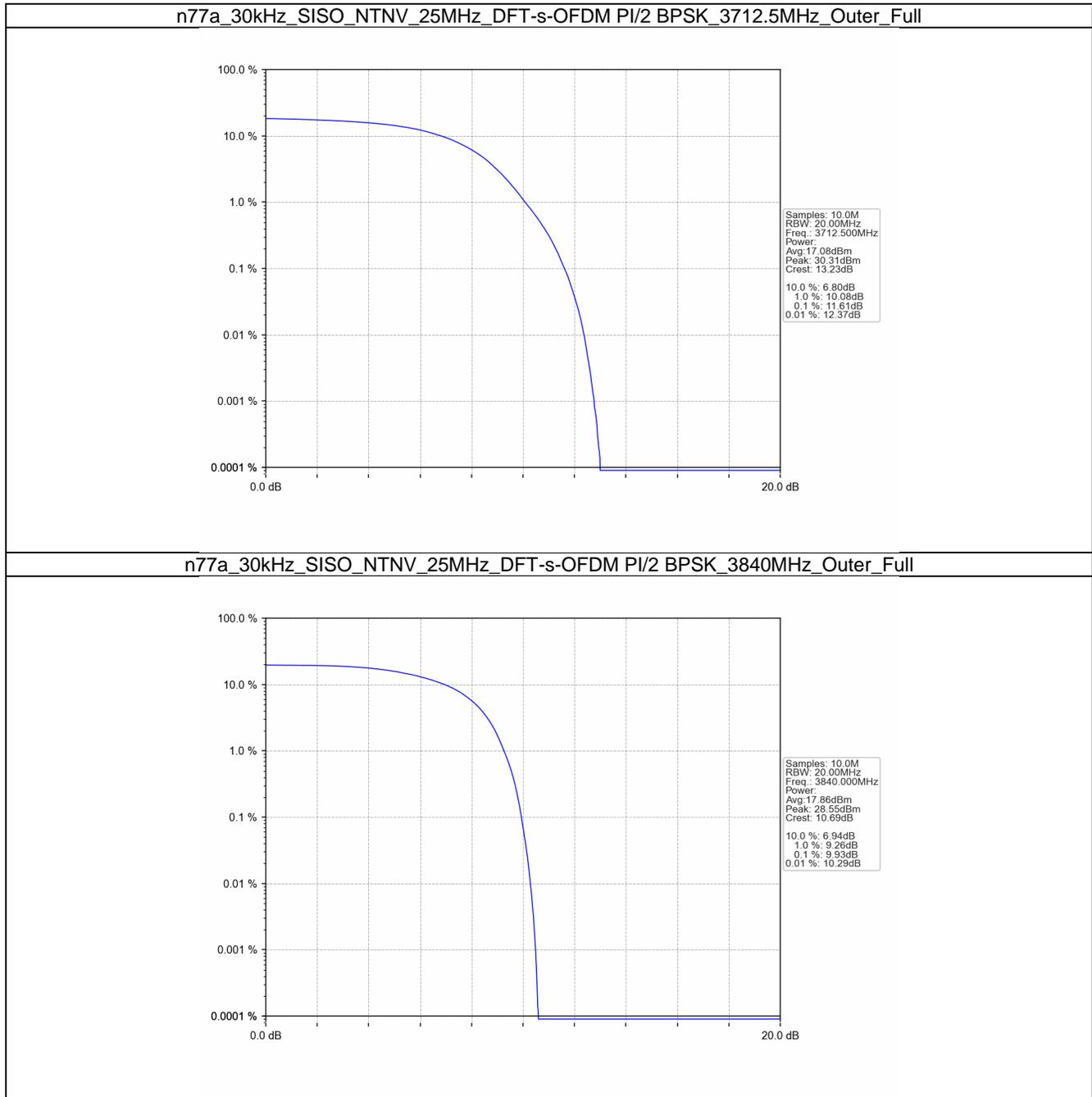


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5.11.2 Test Graph



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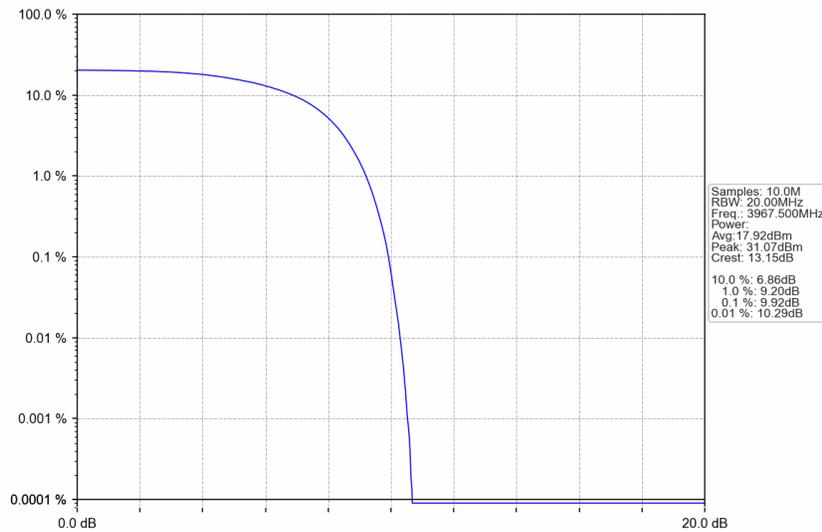


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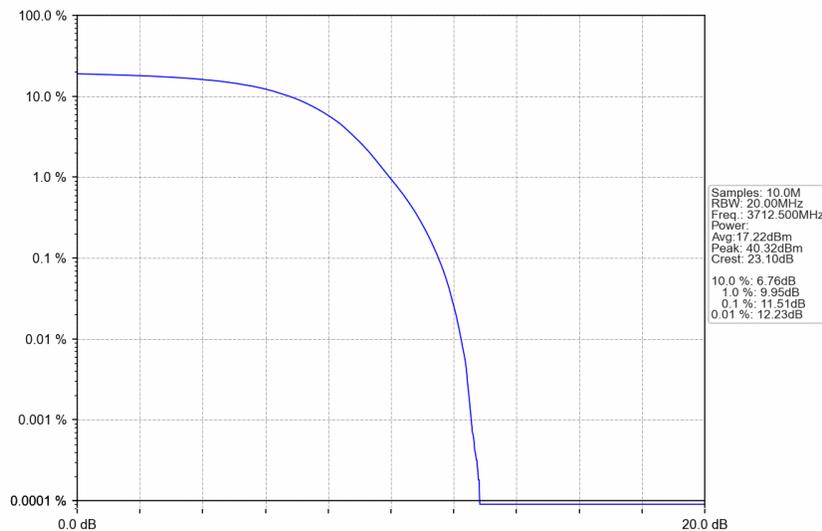
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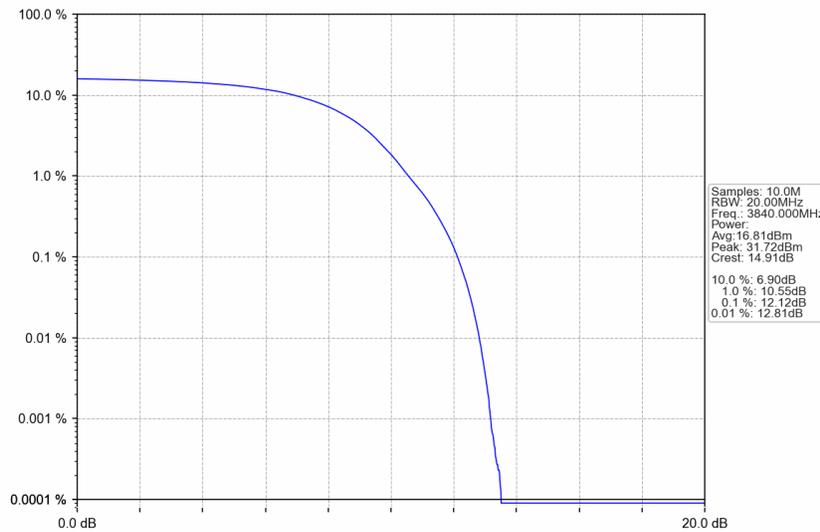
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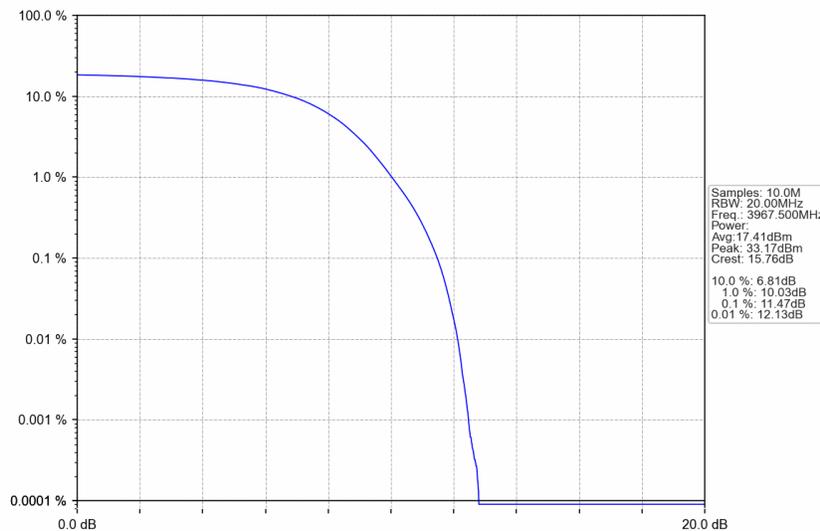
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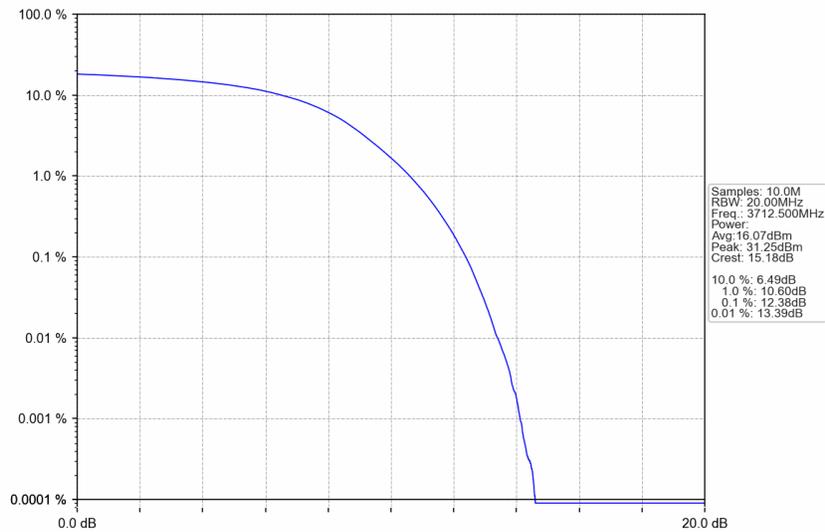


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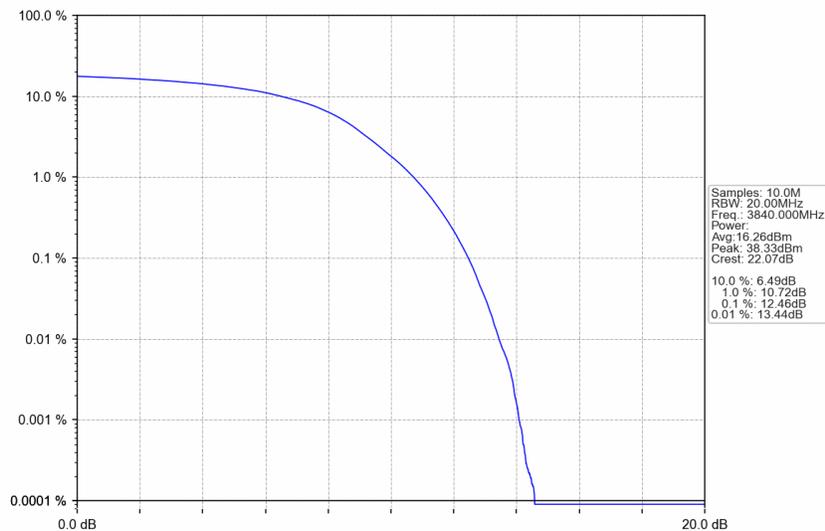
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