

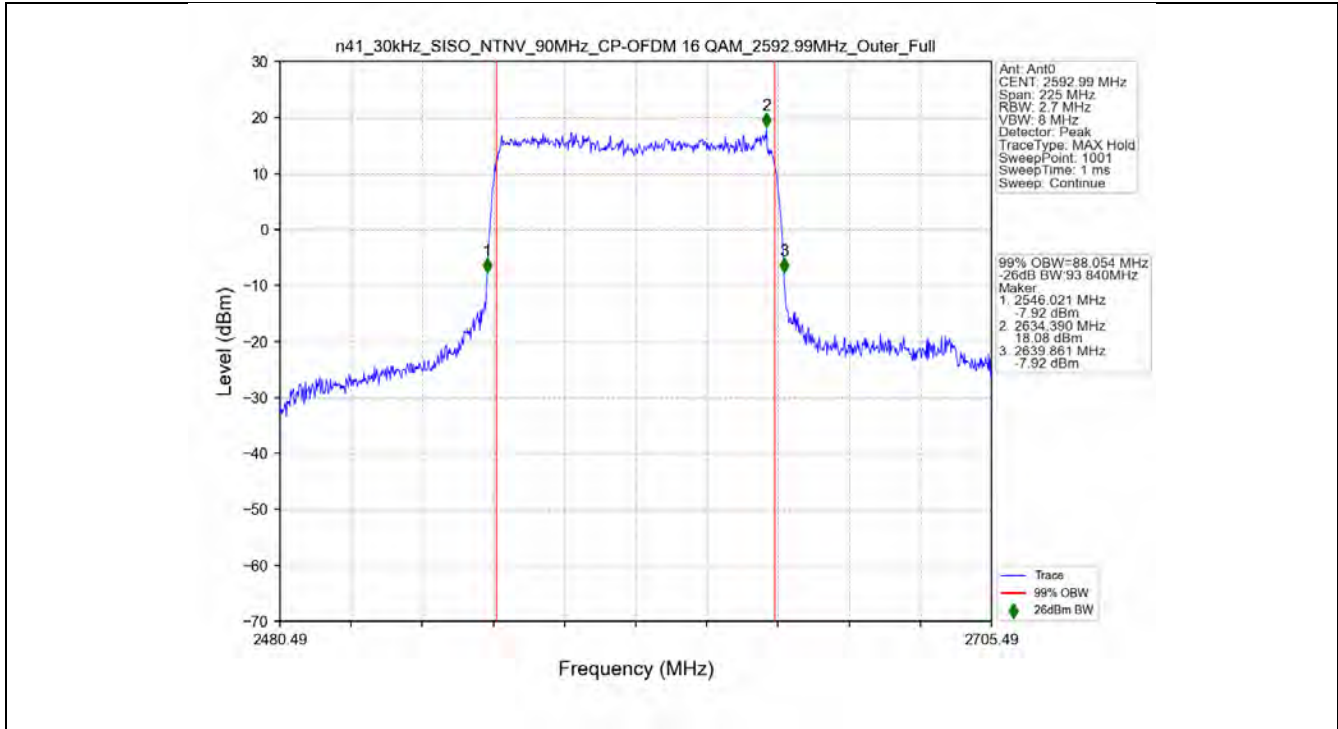


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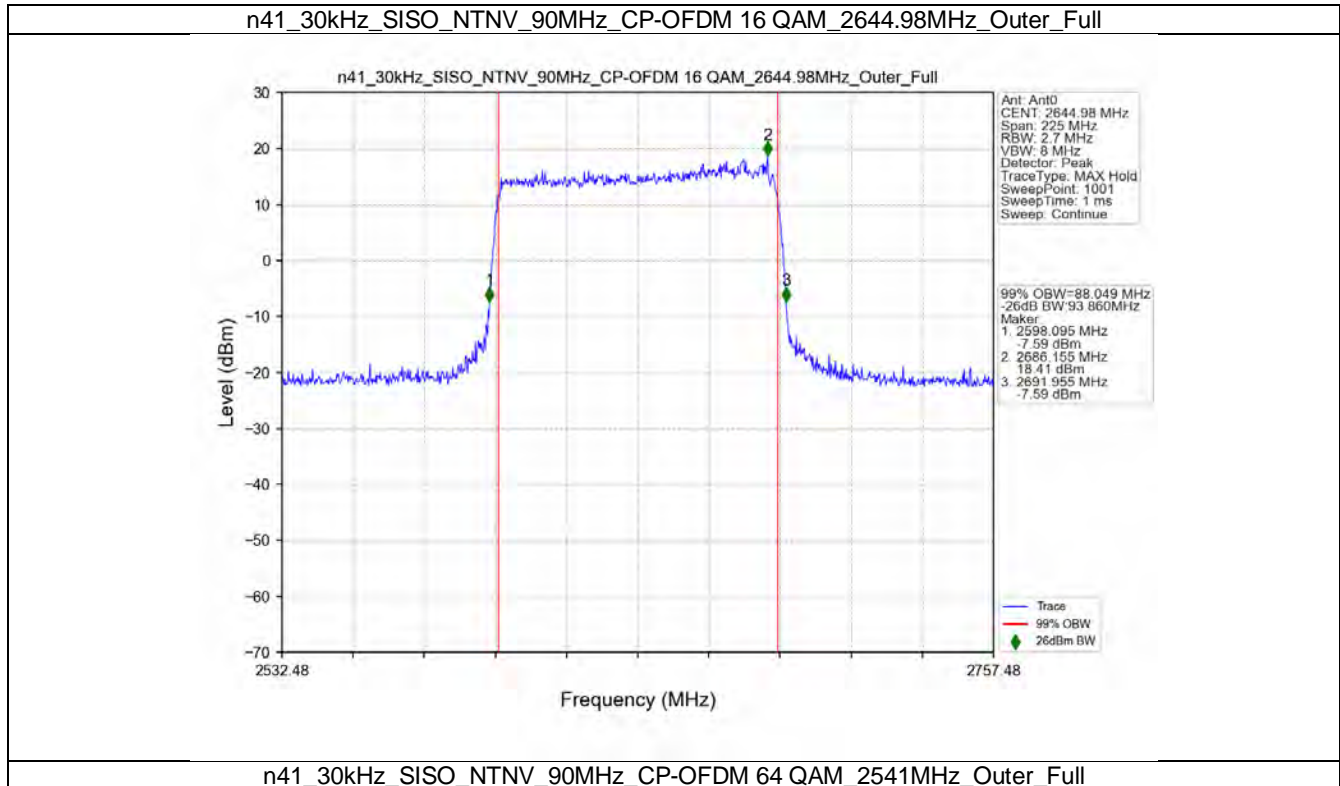


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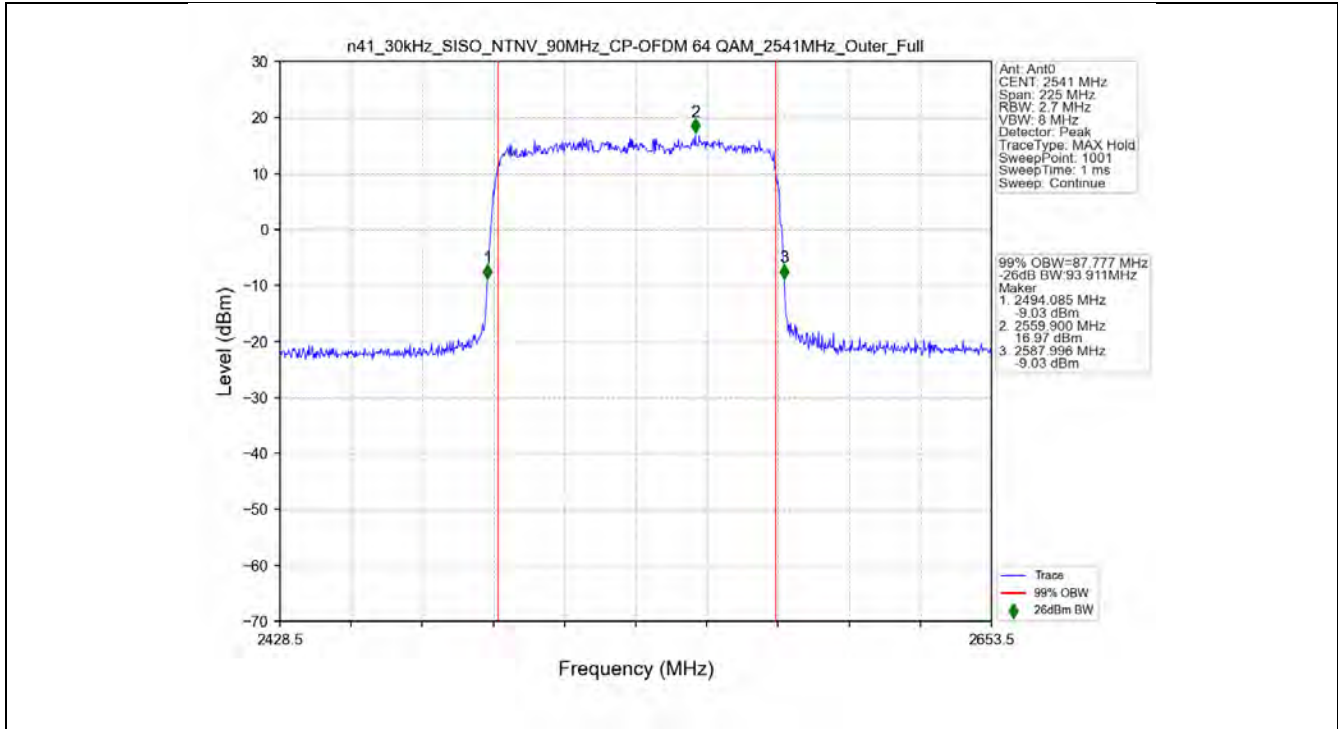


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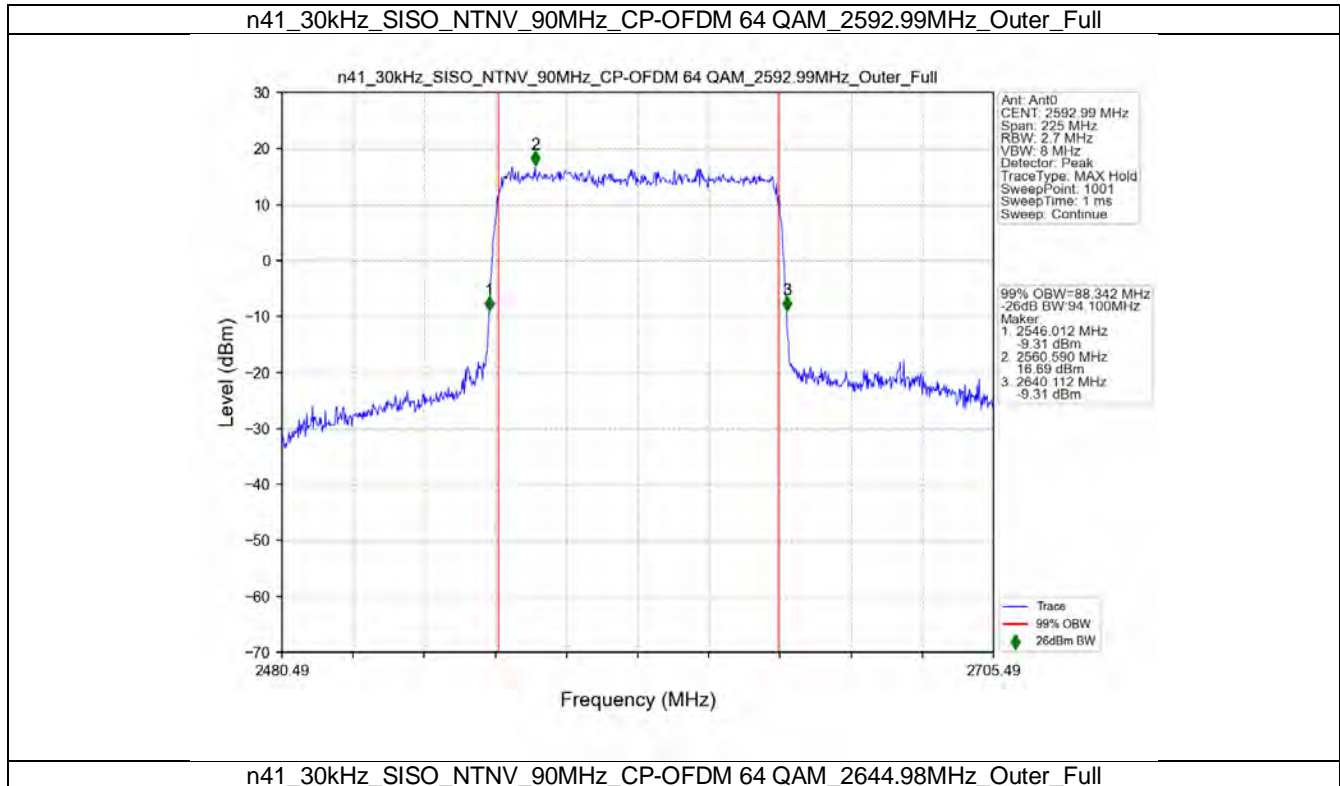


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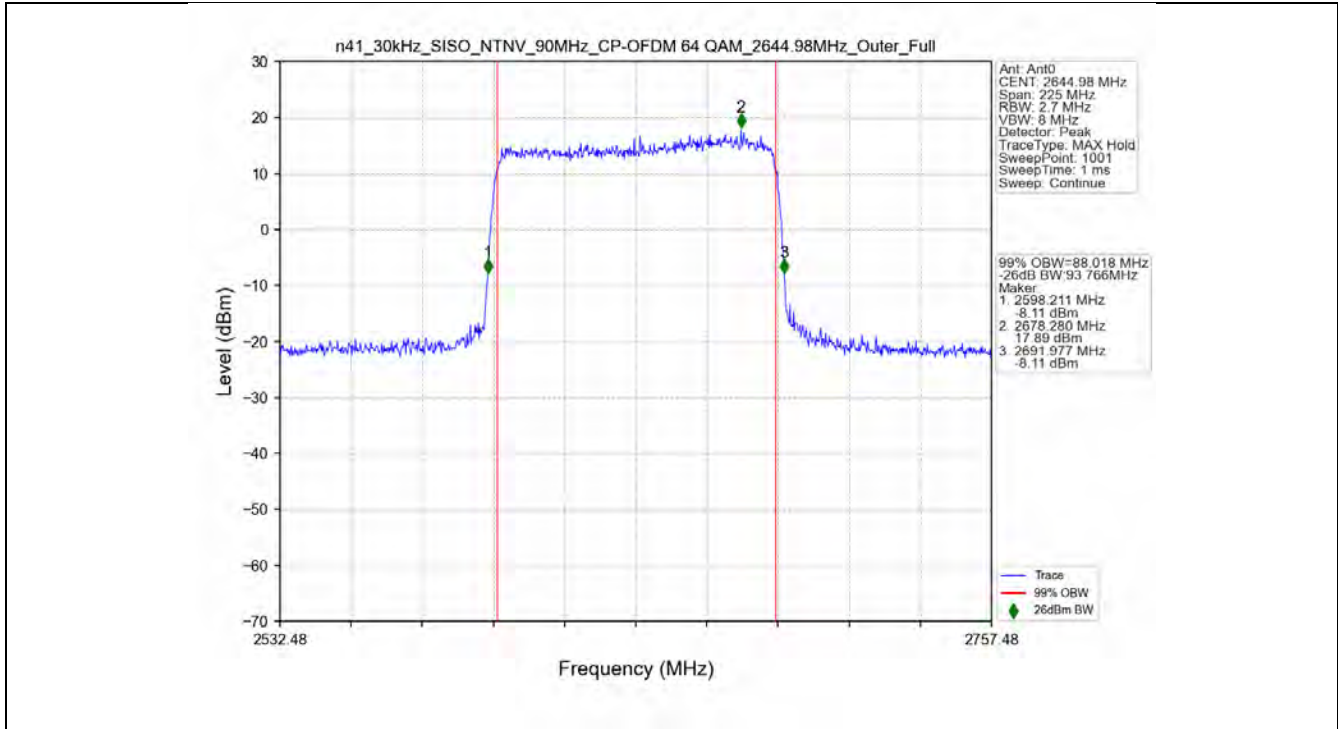


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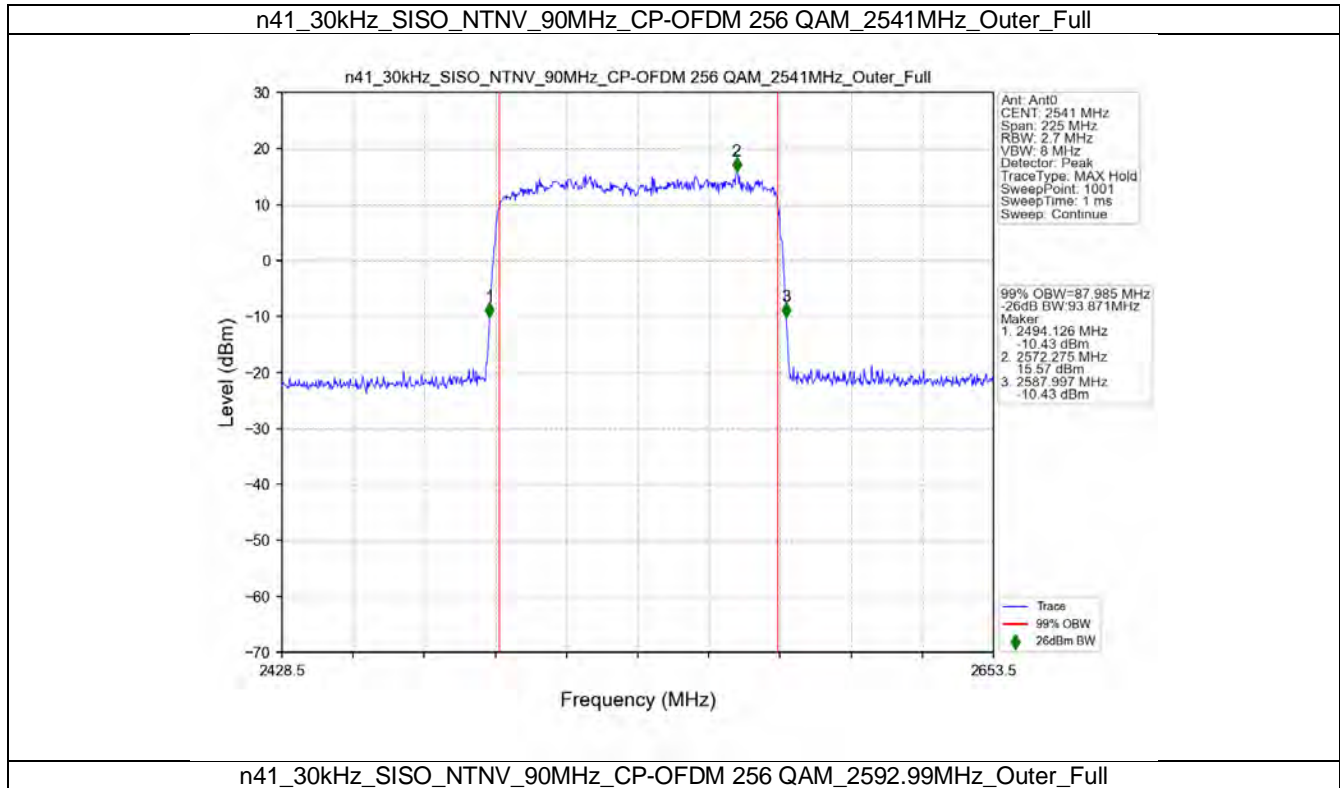


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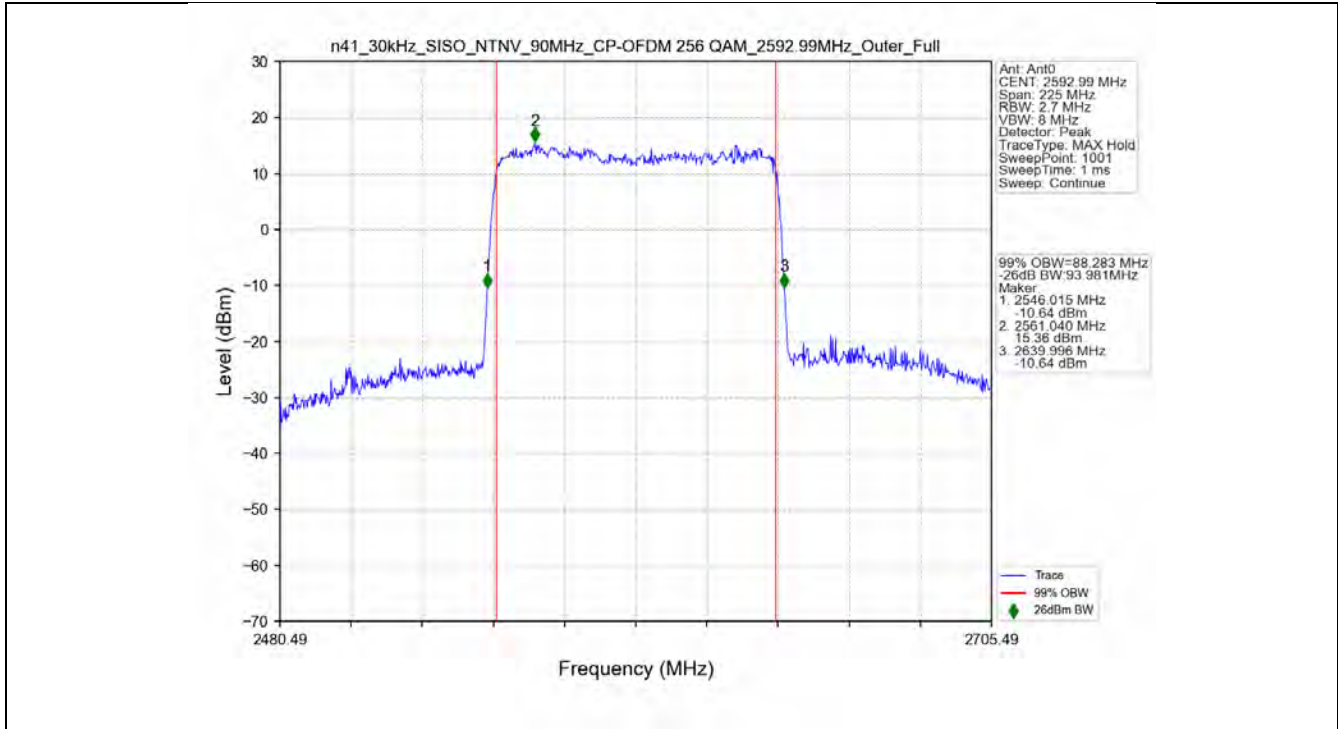


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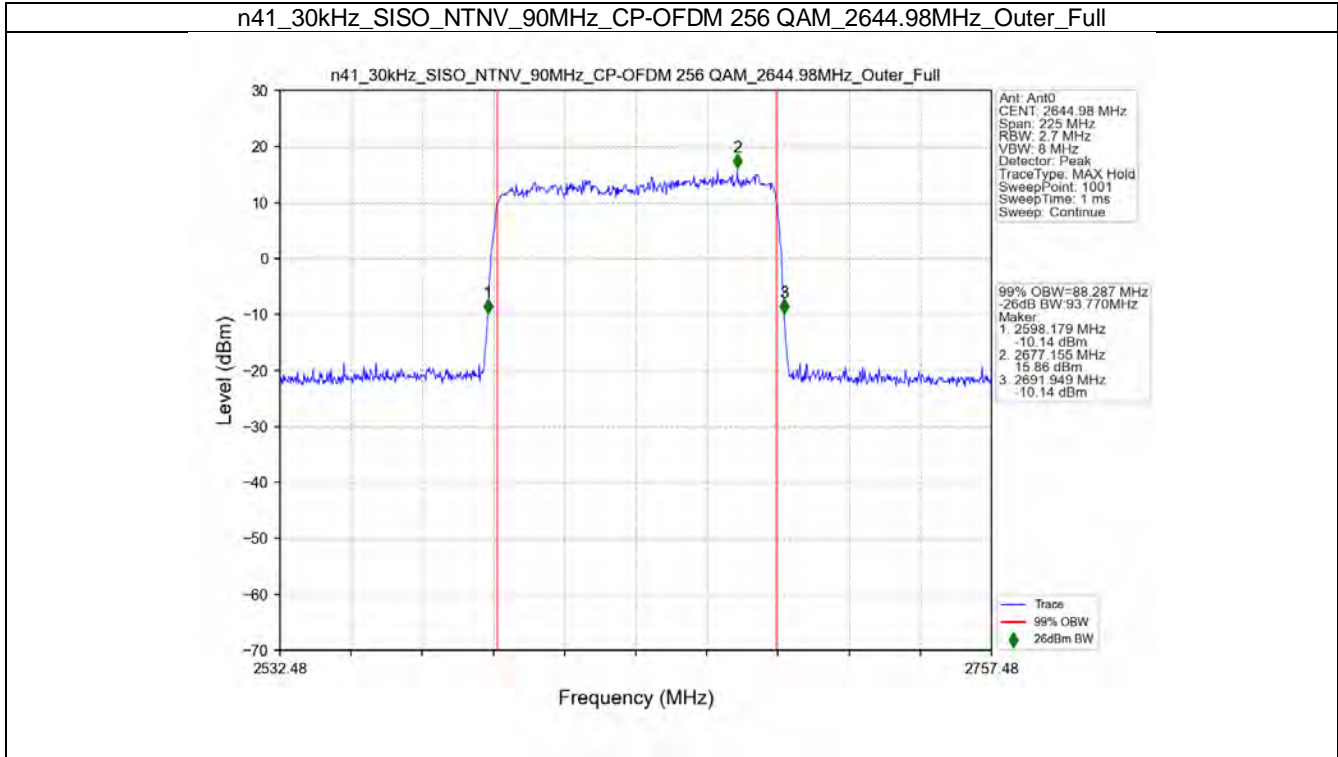


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3.8 30k_SISO_100MHz_NTNV

3.8.1 Test Result

5G NR n41 SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2546.01	Outer_Full	97.08	103.53	/	Pass
	2592.99	Outer_Full	97.36	103.66	/	Pass
	2640	Outer_Full	97.26	103.56	/	Pass
DFT-s-OFDM QPSK	2546.01	Outer_Full	96.80	103.76	/	Pass
	2592.99	Outer_Full	97.17	103.84	/	Pass
	2640	Outer_Full	97.16	103.50	/	Pass
DFT-s-OFDM 16 QAM	2546.01	Outer_Full	97.40	103.72	/	Pass
	2592.99	Outer_Full	97.66	103.77	/	Pass
	2640	Outer_Full	97.14	103.75	/	Pass
DFT-s-OFDM 64 QAM	2546.01	Outer_Full	97.08	103.76	/	Pass
	2592.99	Outer_Full	97.52	103.81	/	Pass
	2640	Outer_Full	97.36	103.80	/	Pass
DFT-s-OFDM 256 QAM	2546.01	Outer_Full	96.62	103.53	/	Pass
	2592.99	Outer_Full	97.26	103.91	/	Pass
	2640	Outer_Full	97.16	103.59	/	Pass
CP-OFDM QPSK	2546.01	Outer_Full	97.98	104.79	/	Pass
	2592.99	Outer_Full	98.31	104.89	/	Pass
	2640	Outer_Full	98.30	104.67	/	Pass
CP-OFDM 16 QAM	2546.01	Outer_Full	97.86	104.42	/	Pass
	2592.99	Outer_Full	98.34	104.95	/	Pass
	2640	Outer_Full	98.14	104.64	/	Pass
CP-OFDM 64 QAM	2546.01	Outer_Full	98.00	104.63	/	Pass
	2592.99	Outer_Full	98.09	104.92	/	Pass
	2640	Outer_Full	98.06	104.81	/	Pass
CP-OFDM 256 QAM	2546.01	Outer_Full	97.94	104.84	/	Pass
	2592.99	Outer_Full	98.33	104.69	/	Pass
	2640	Outer_Full	98.16	104.92	/	Pass



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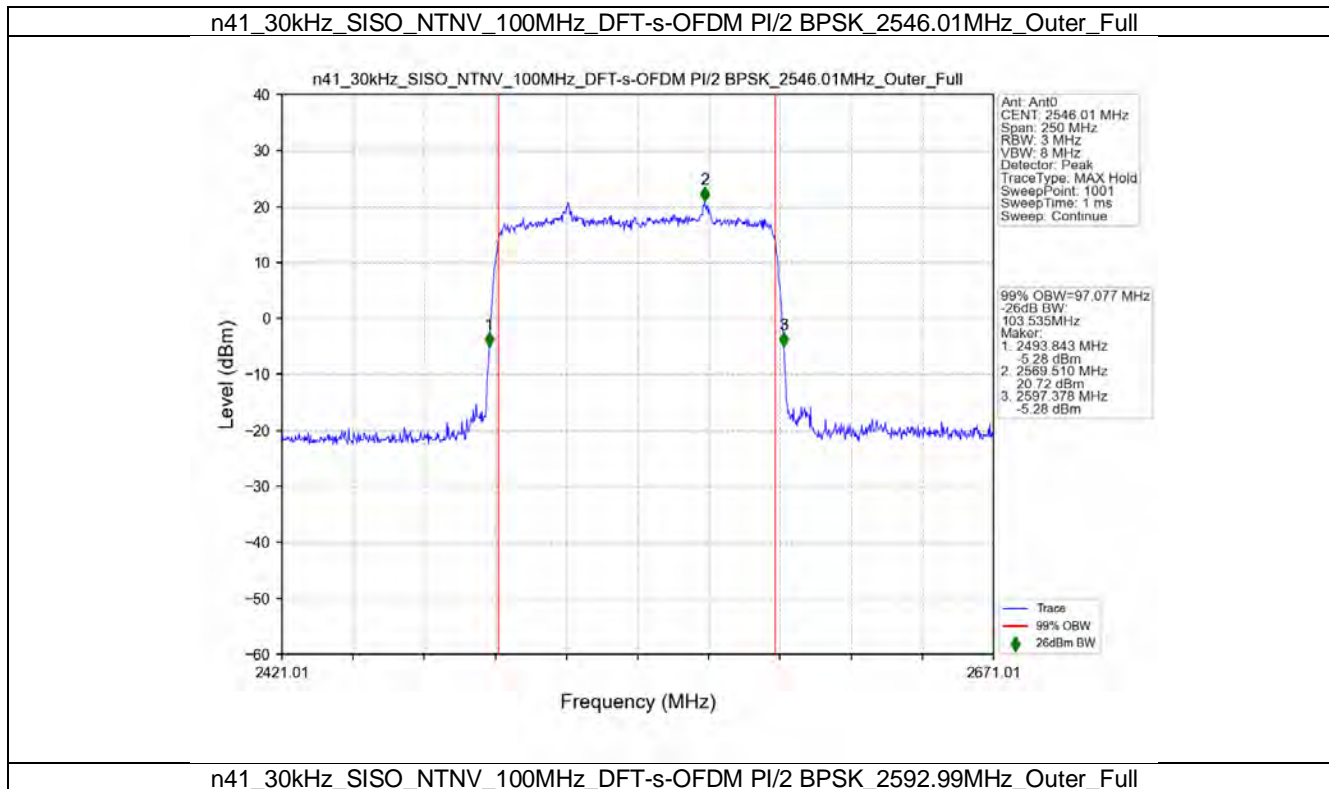
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3.8.2 Test Graph



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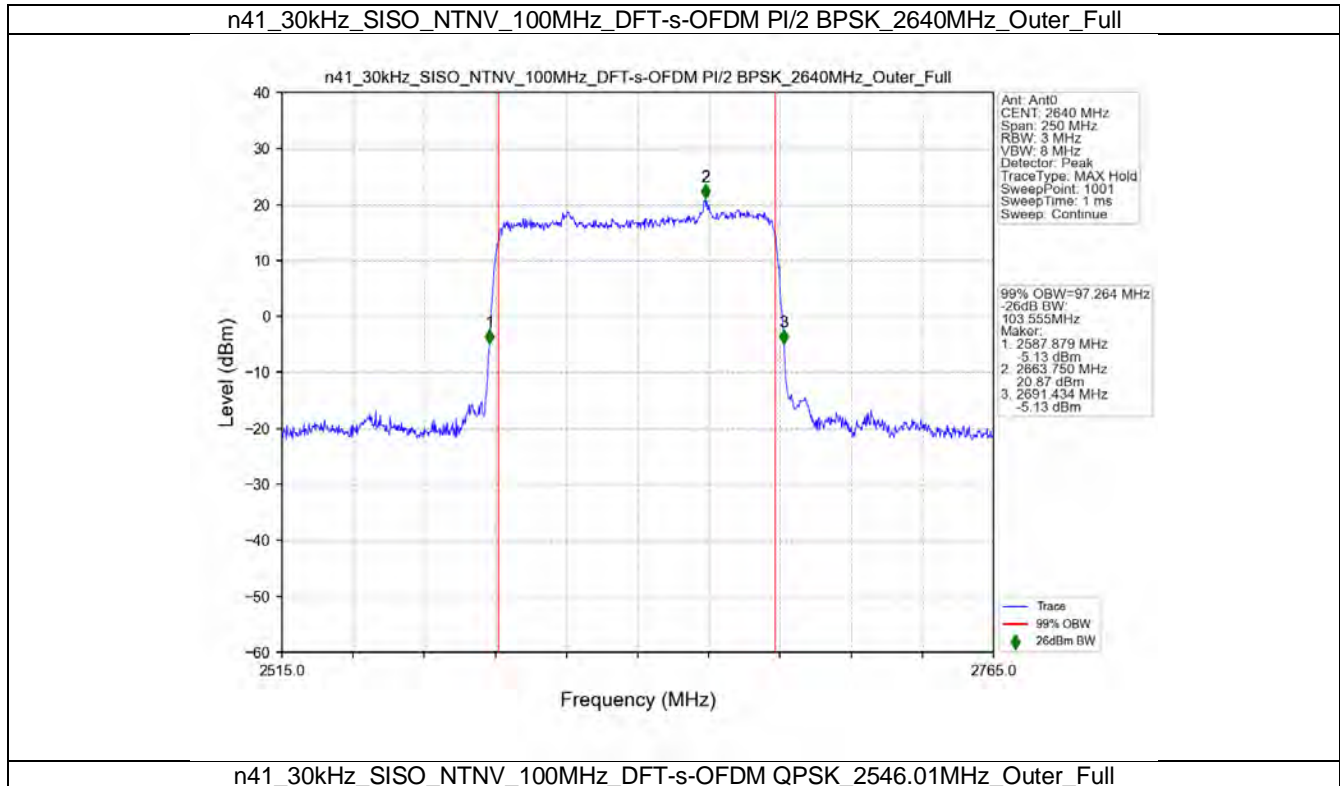


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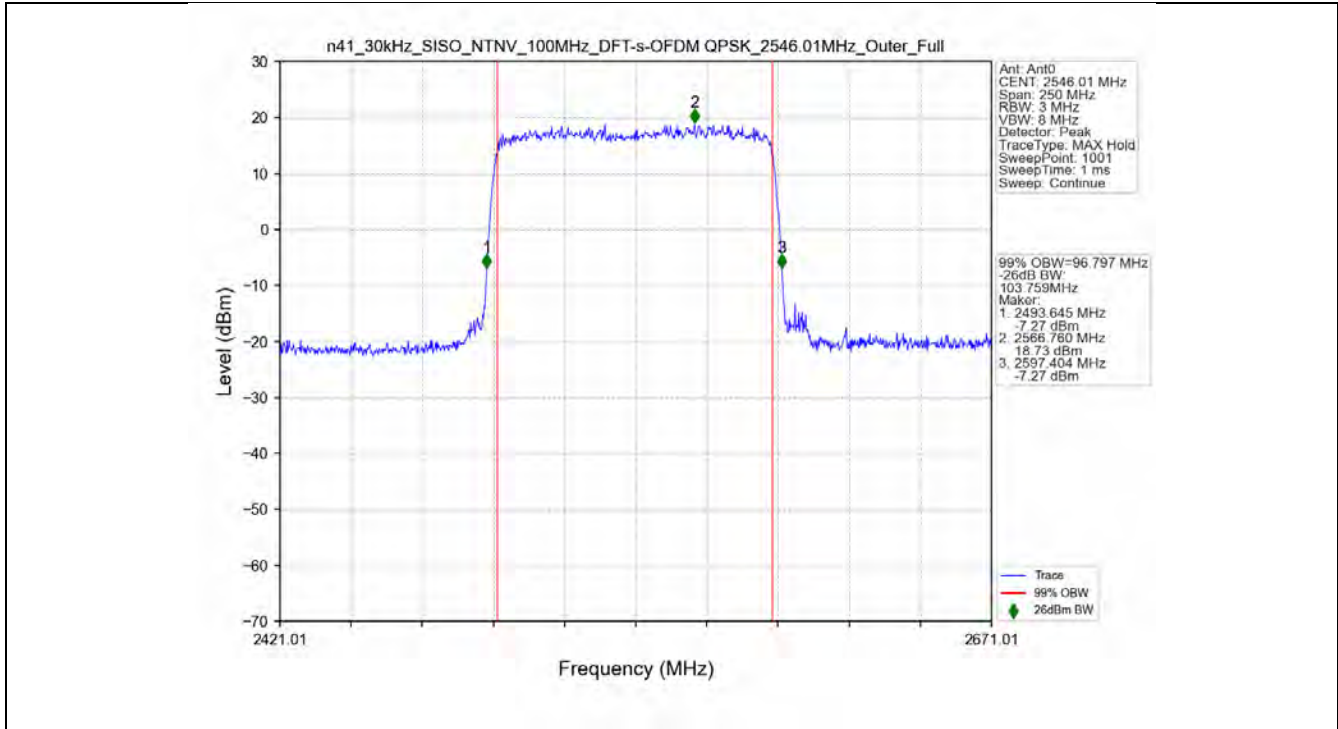


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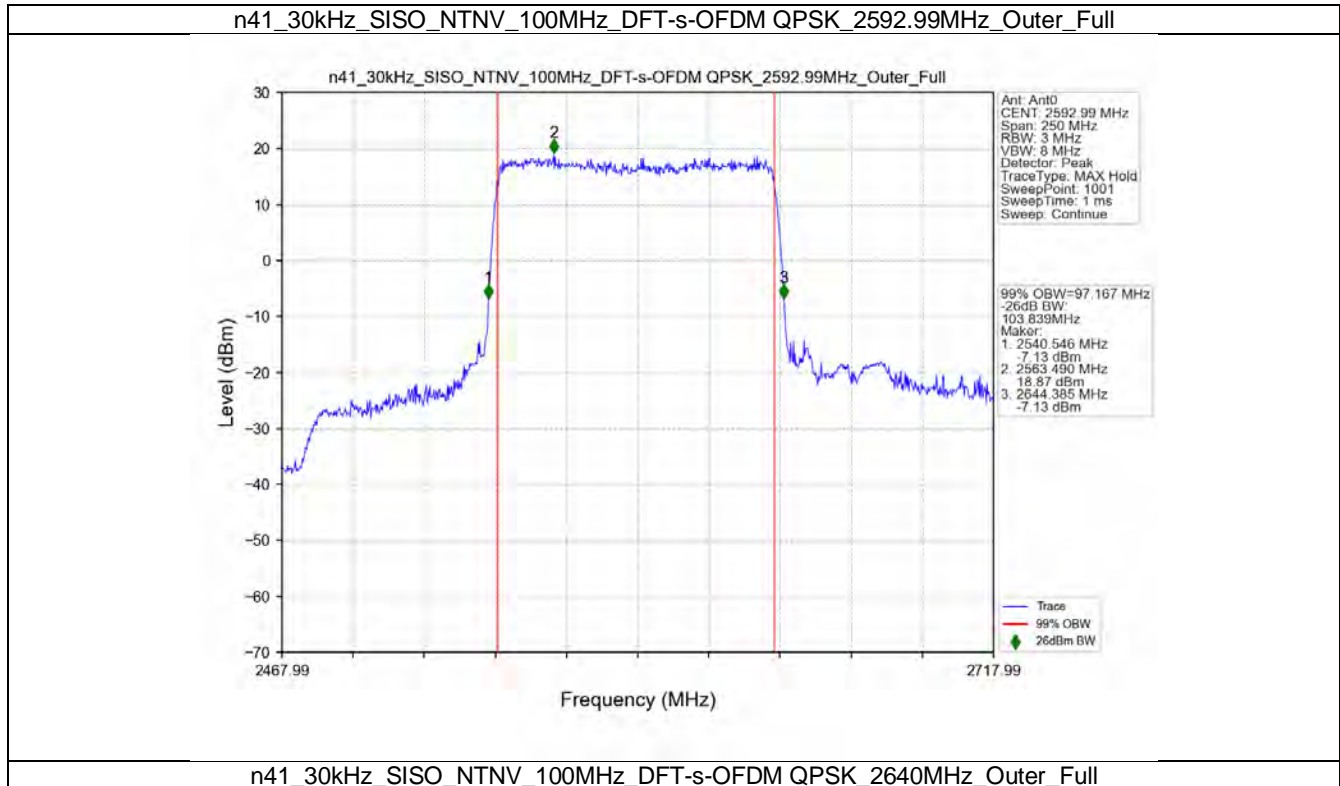


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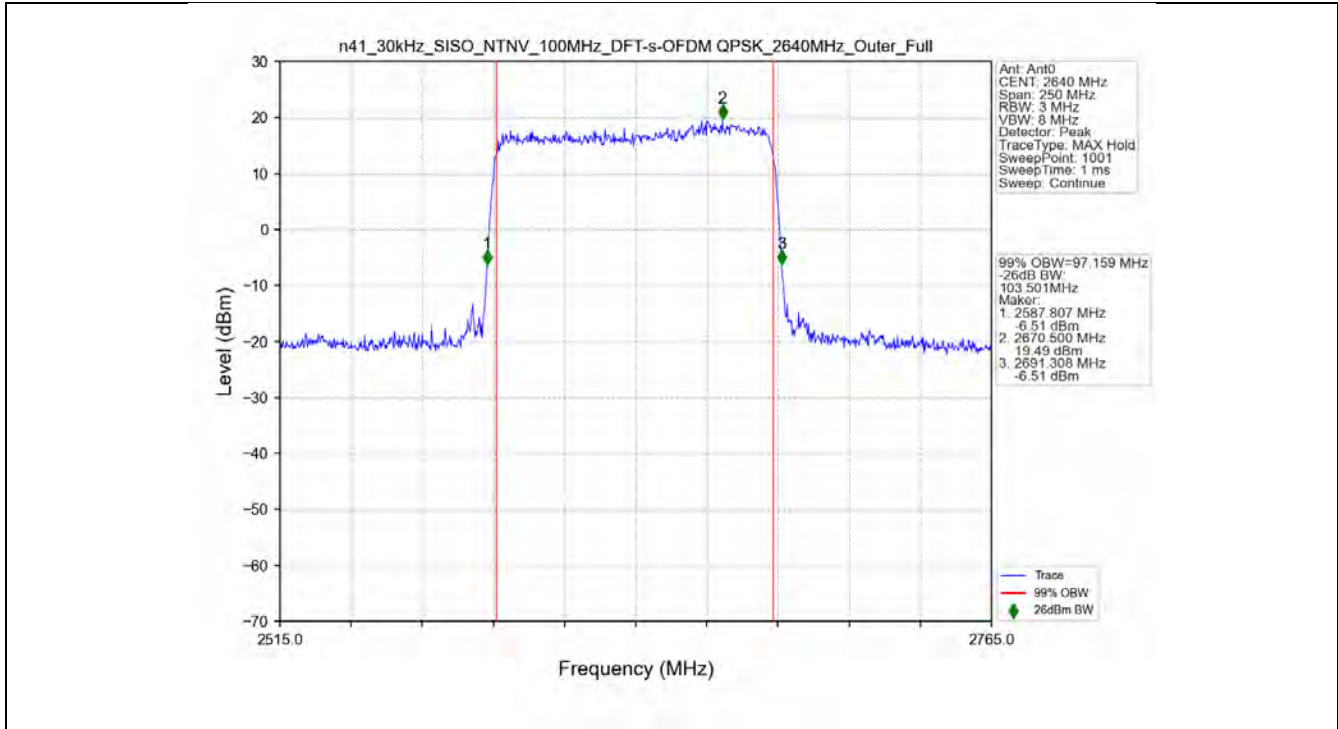


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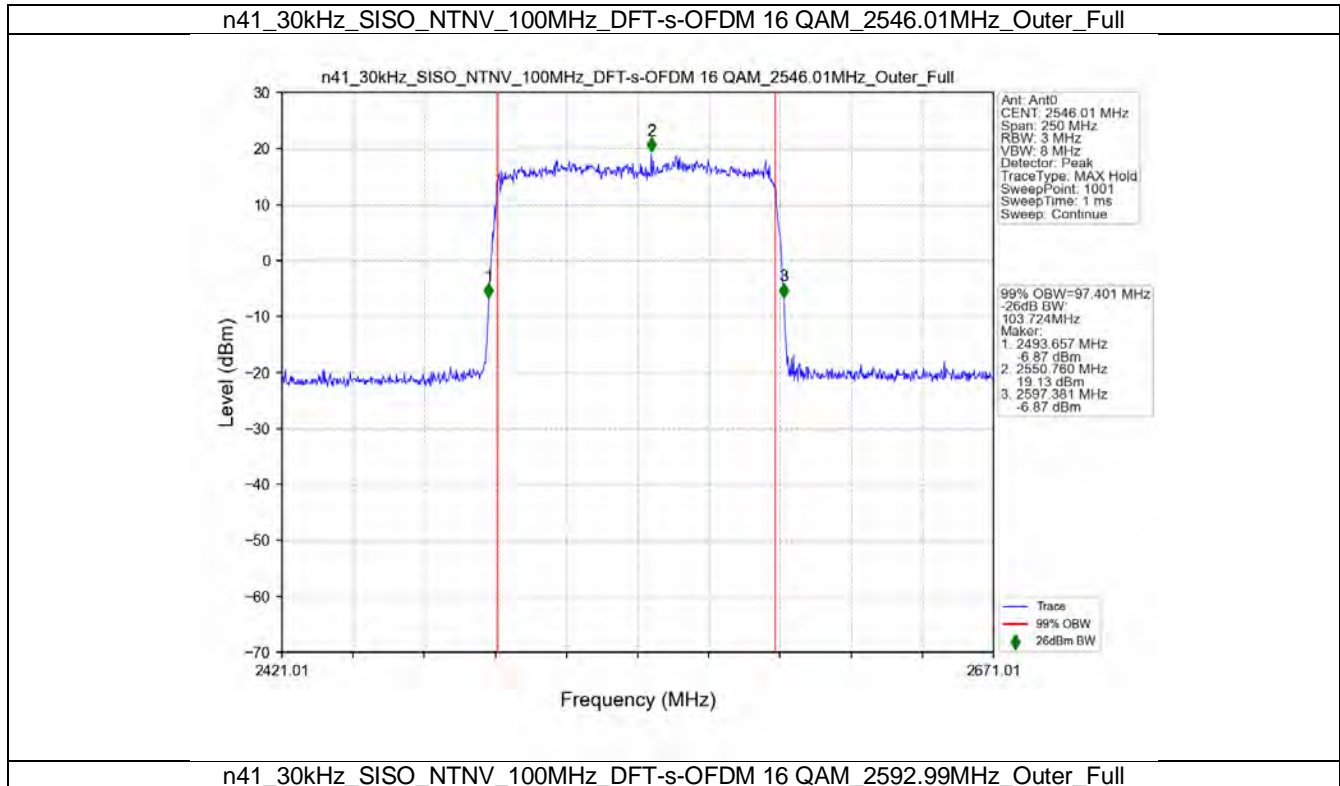


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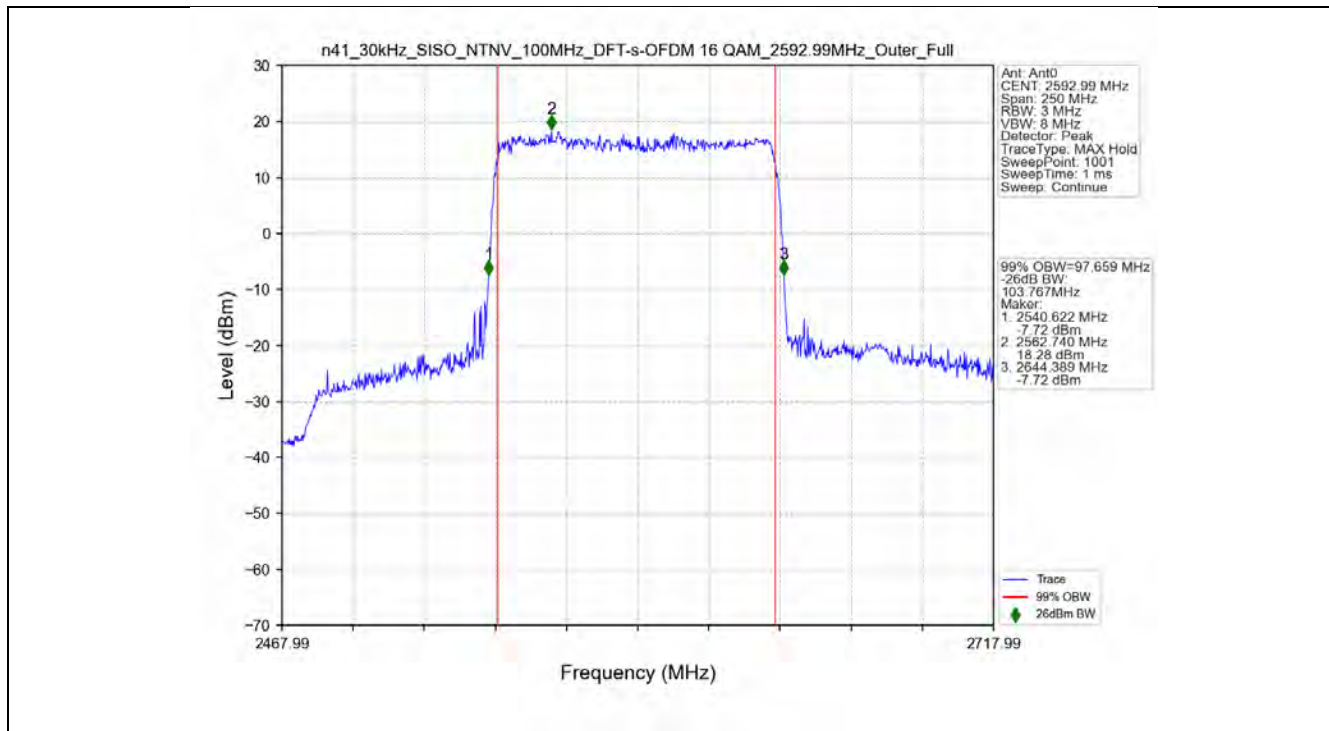
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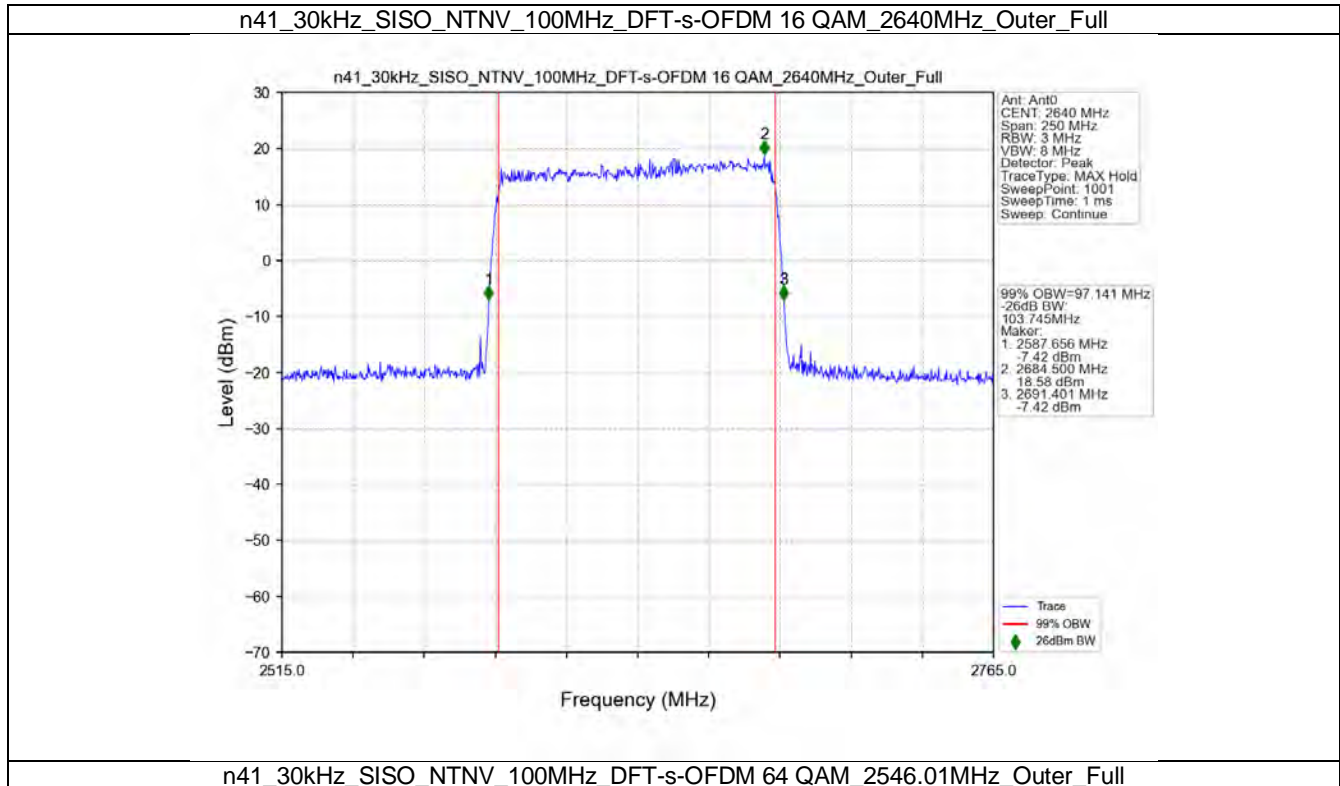


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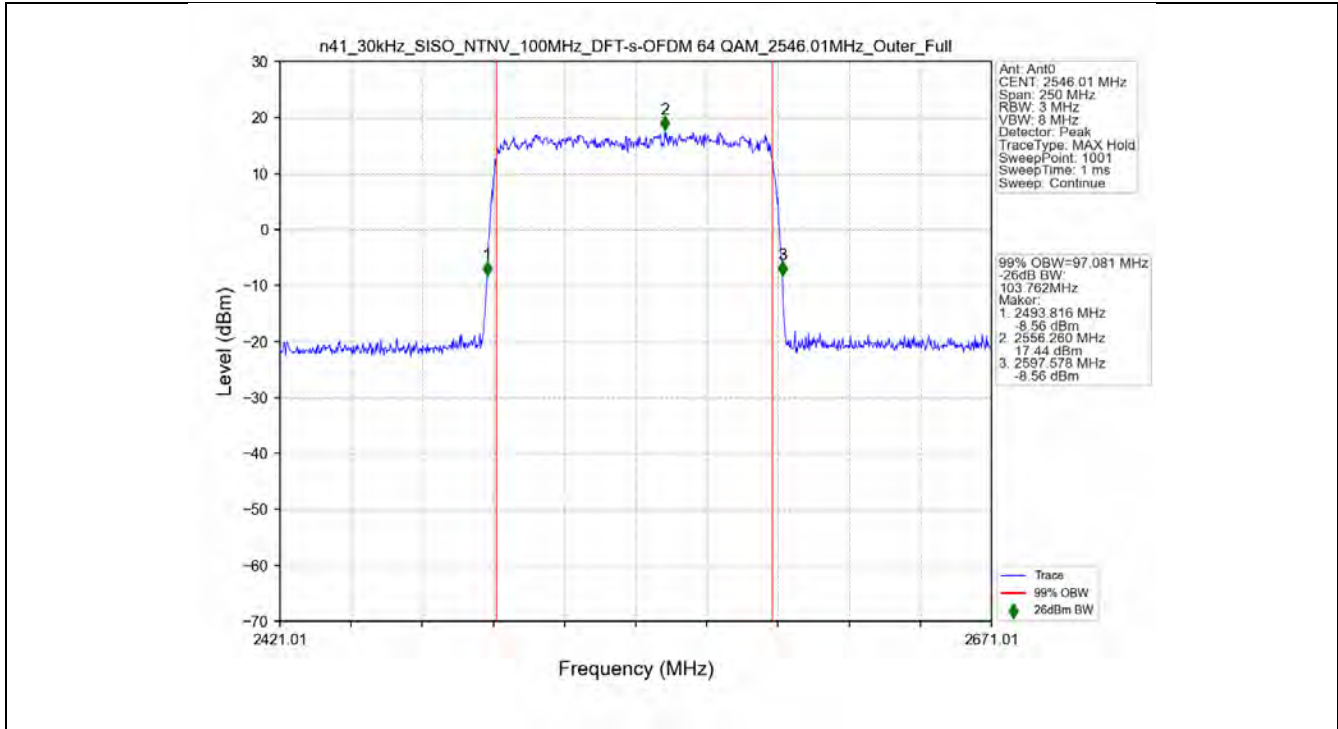


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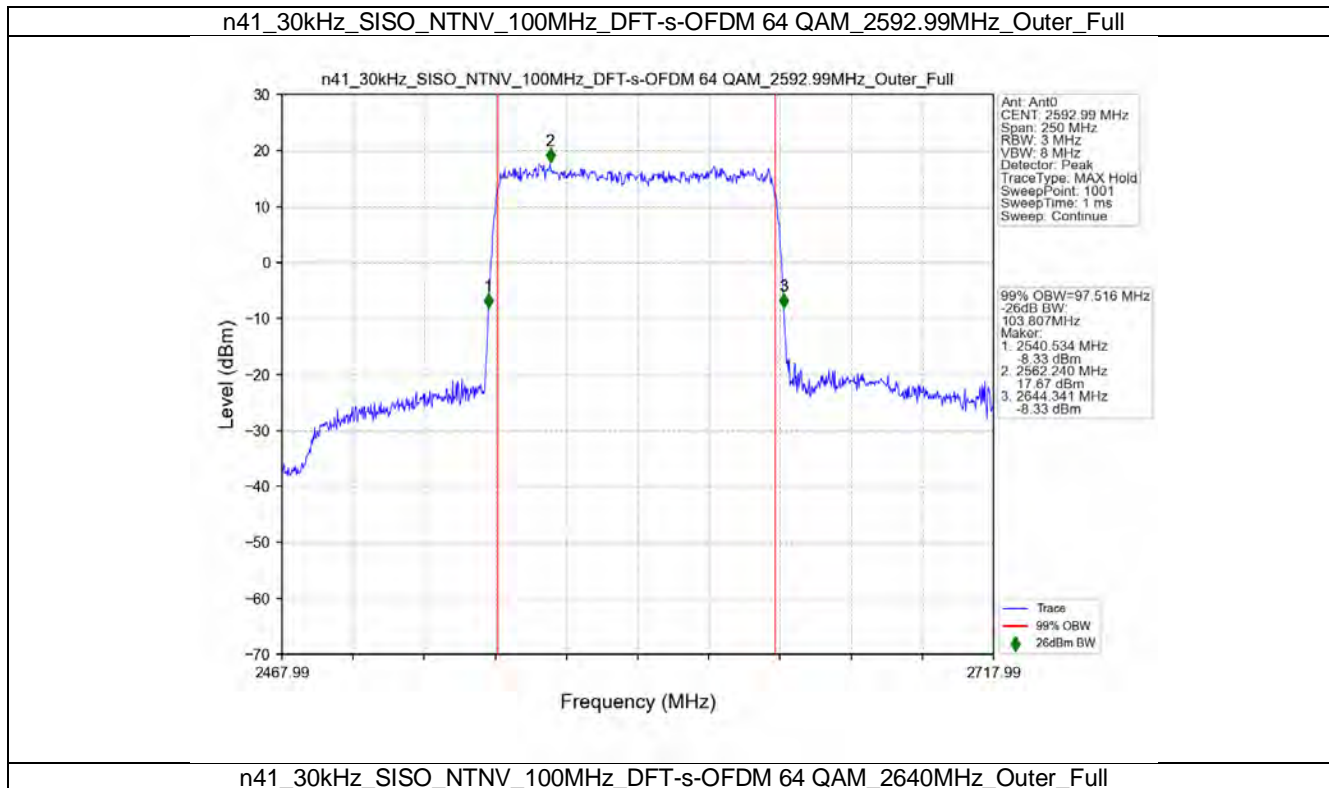
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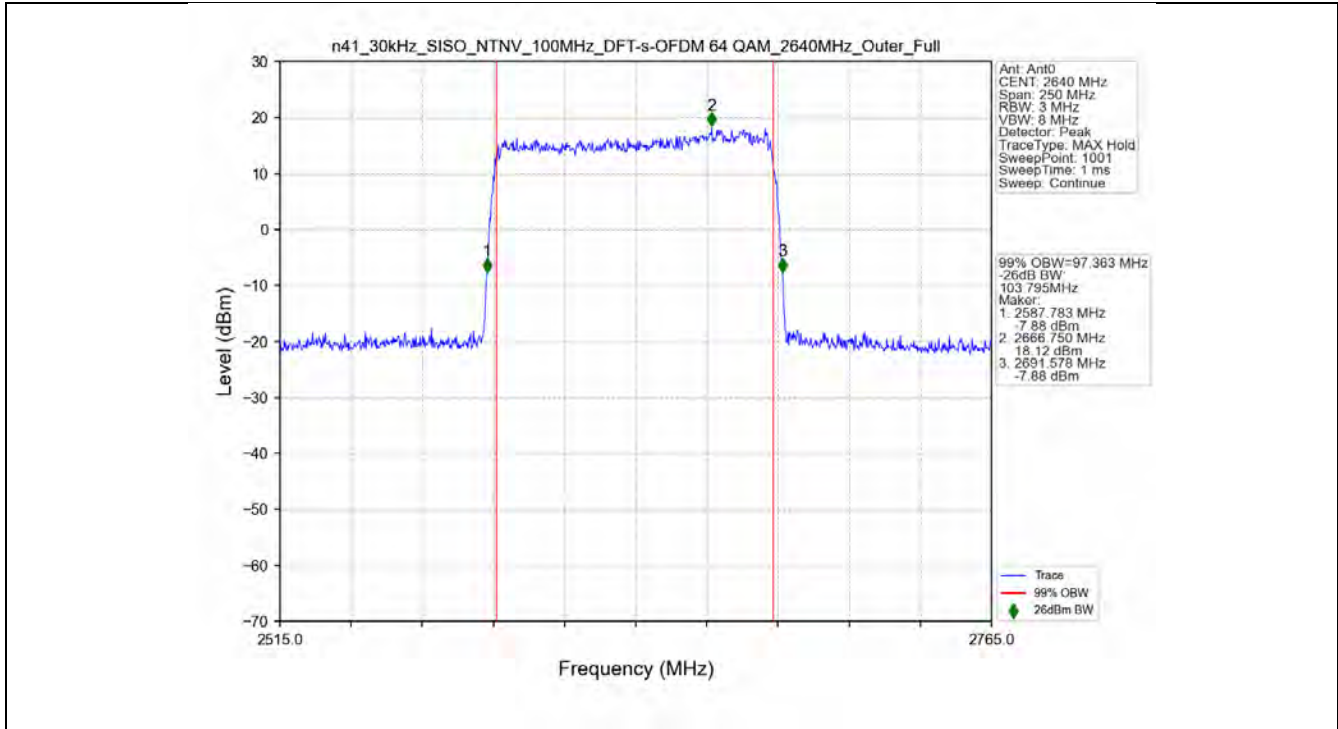


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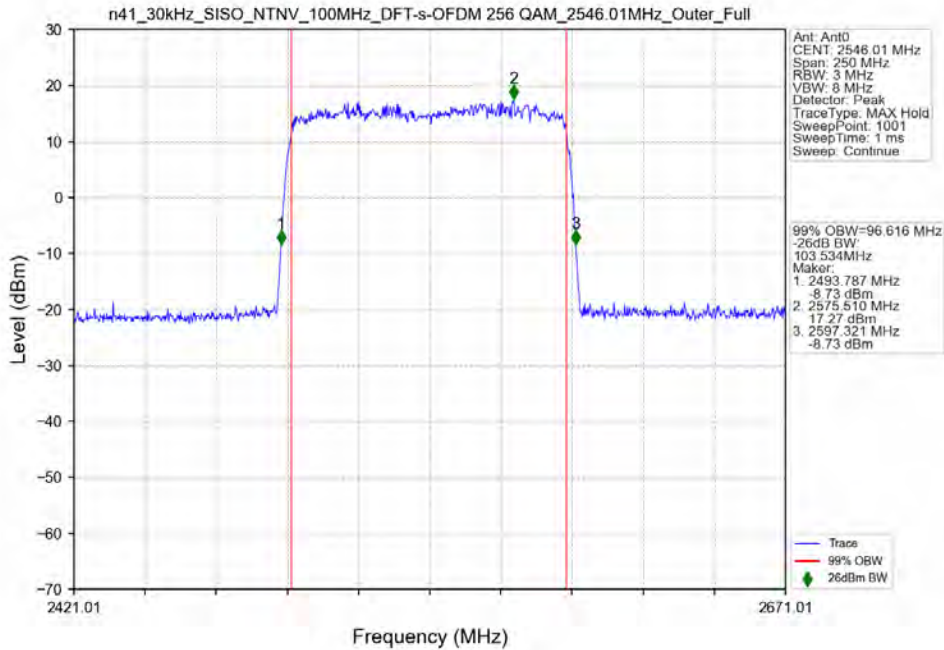
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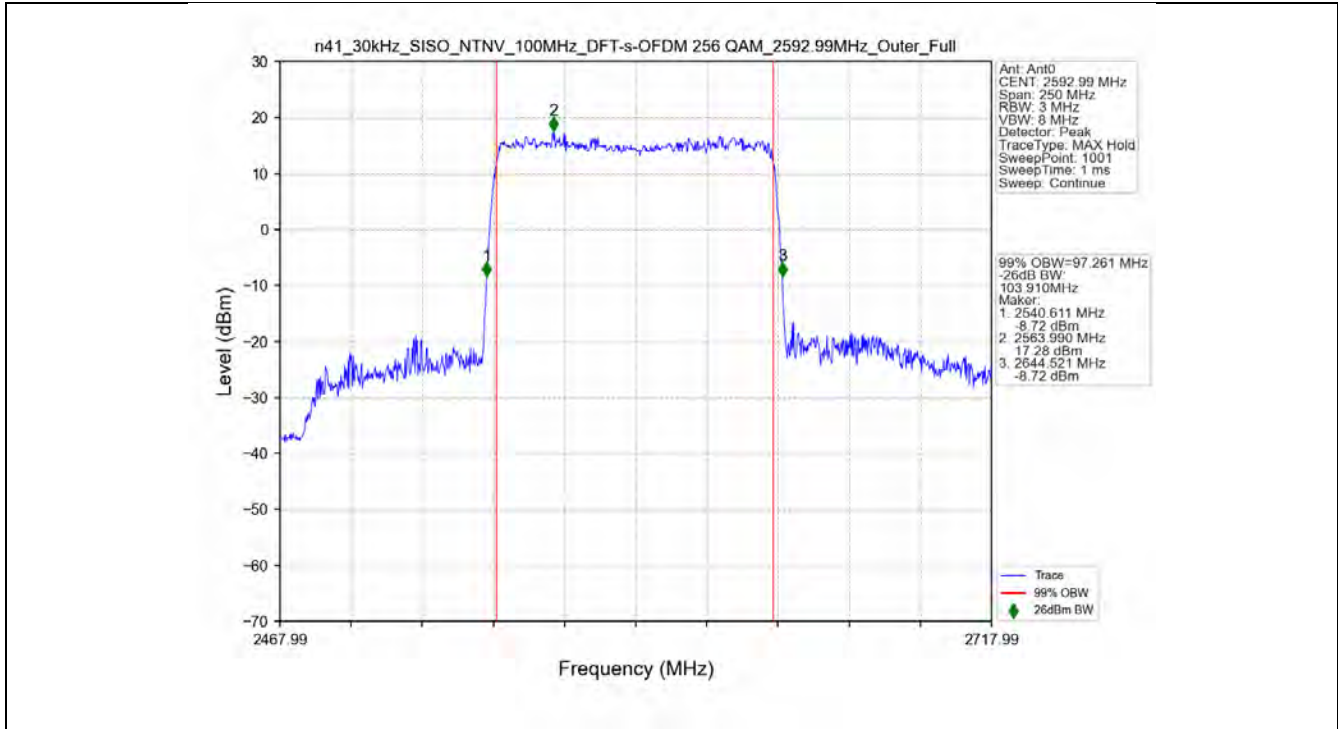


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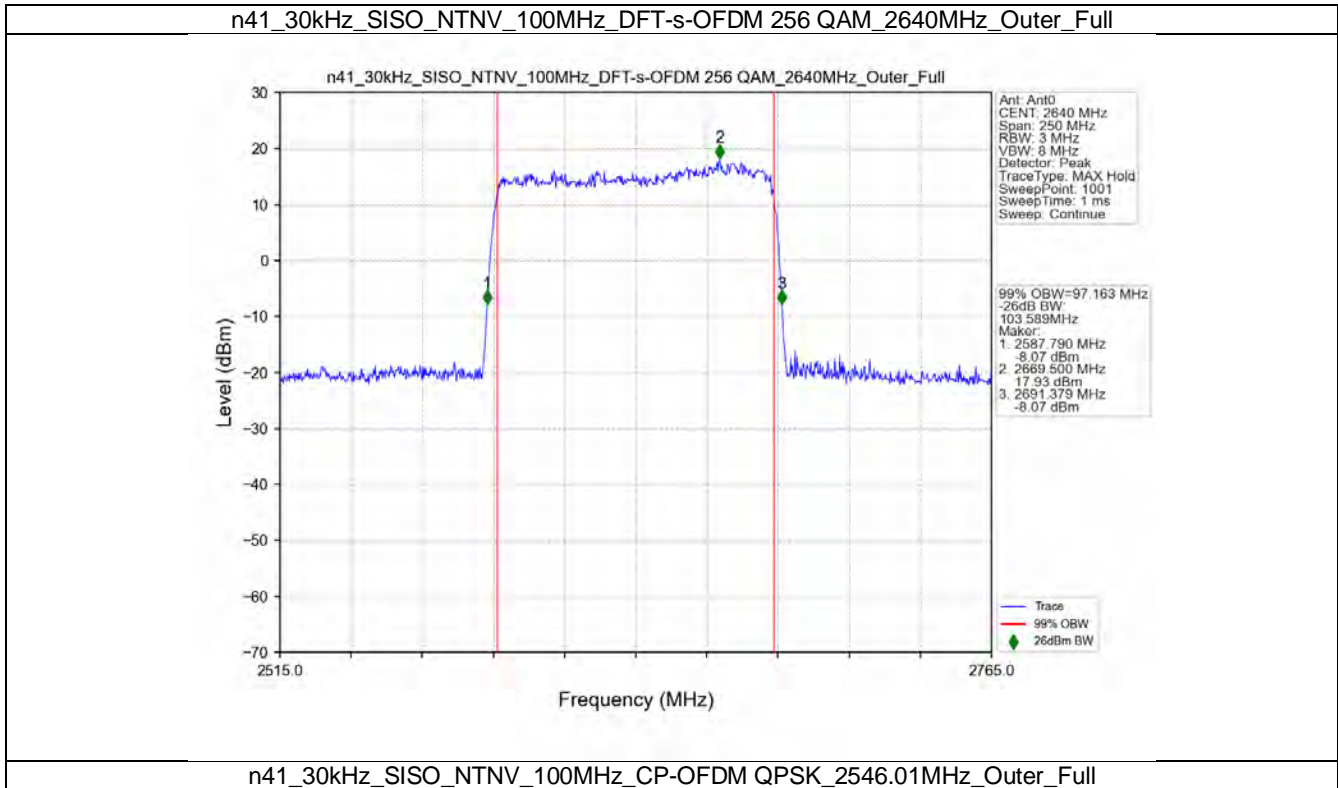


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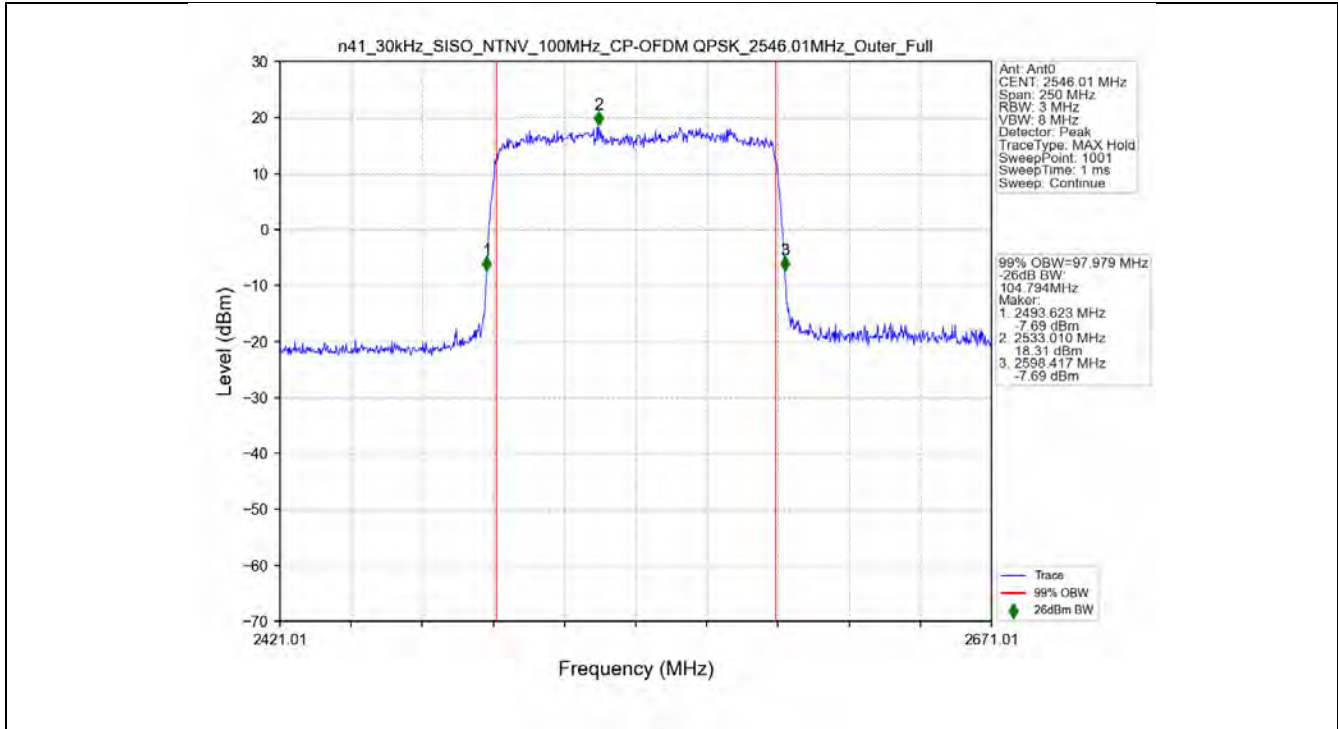


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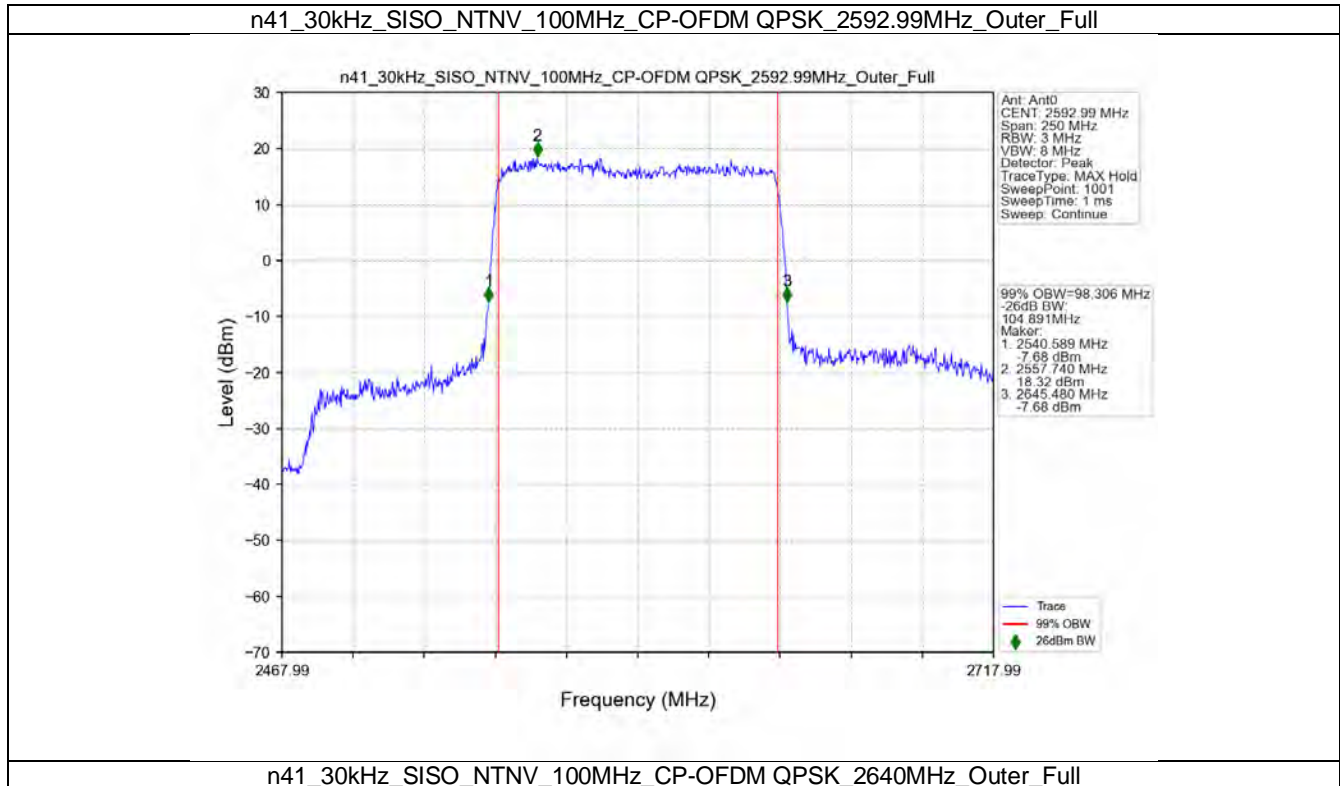


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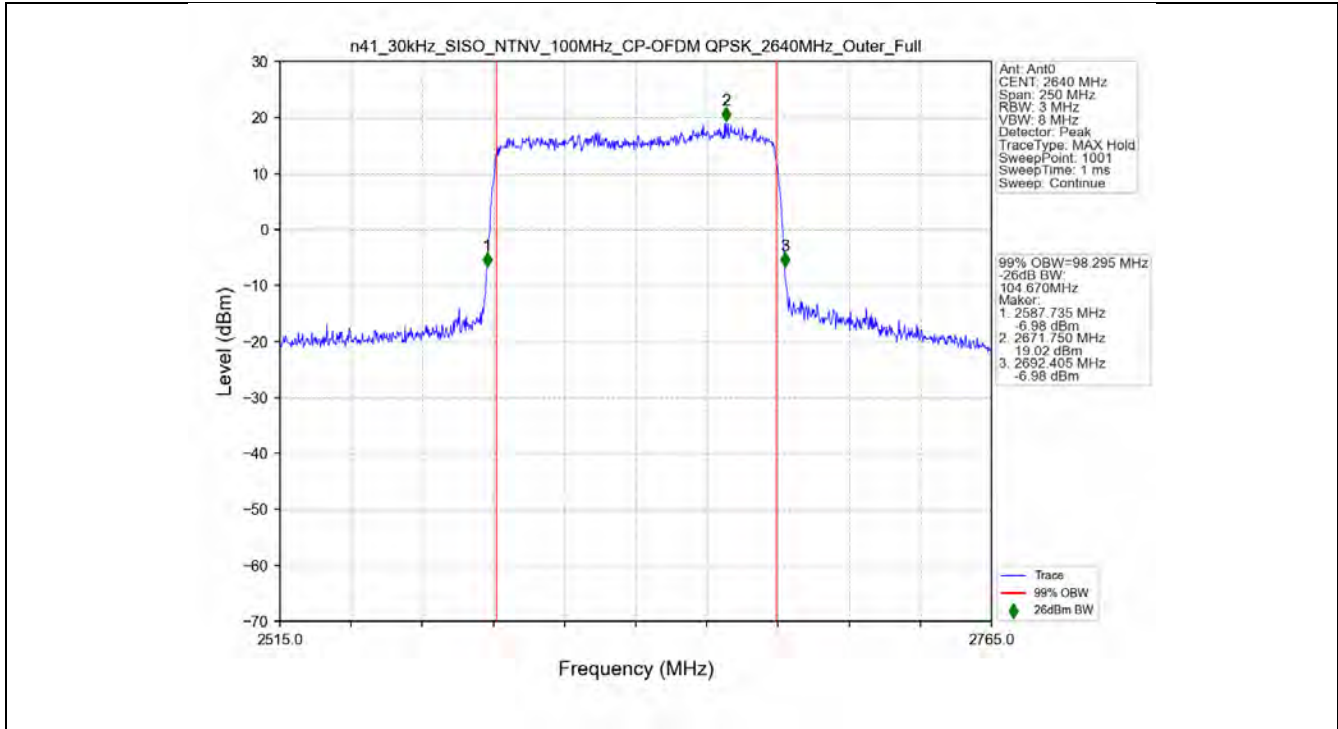


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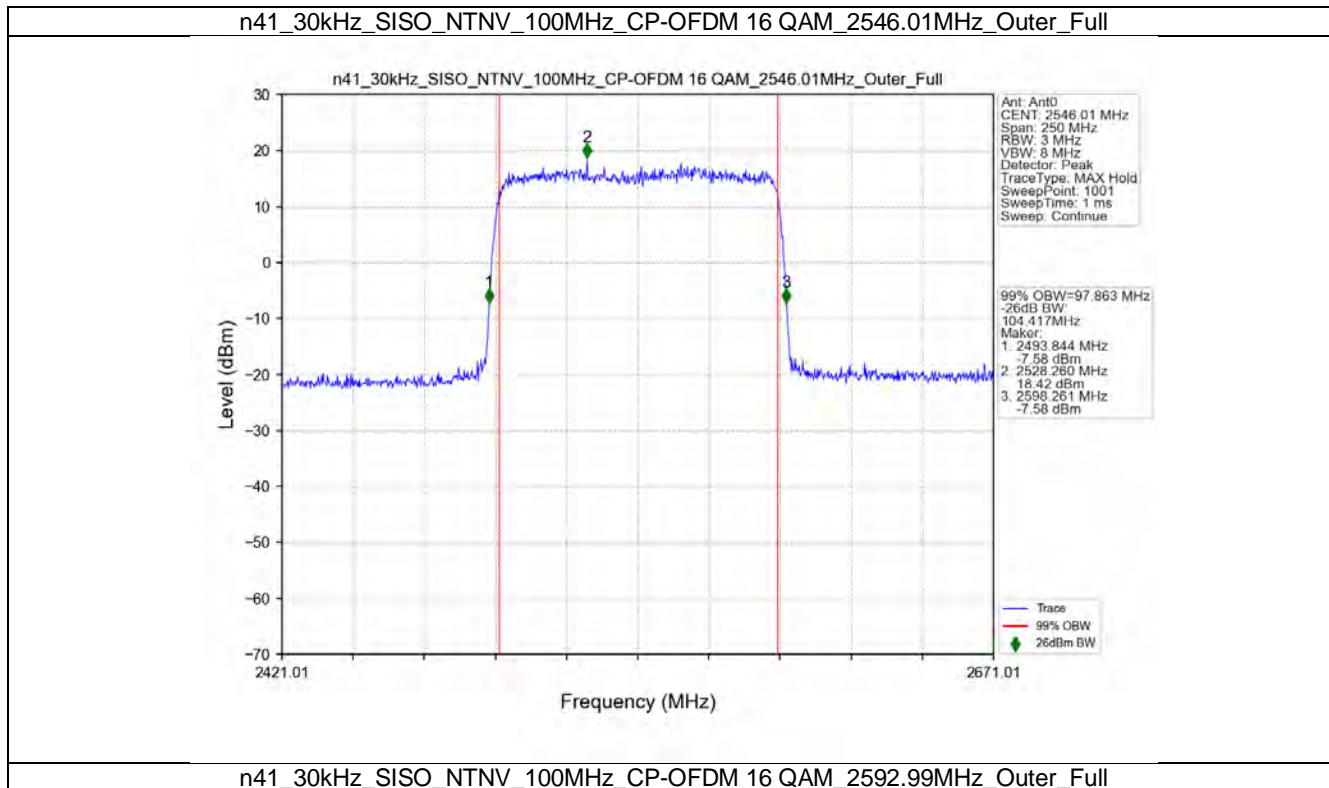
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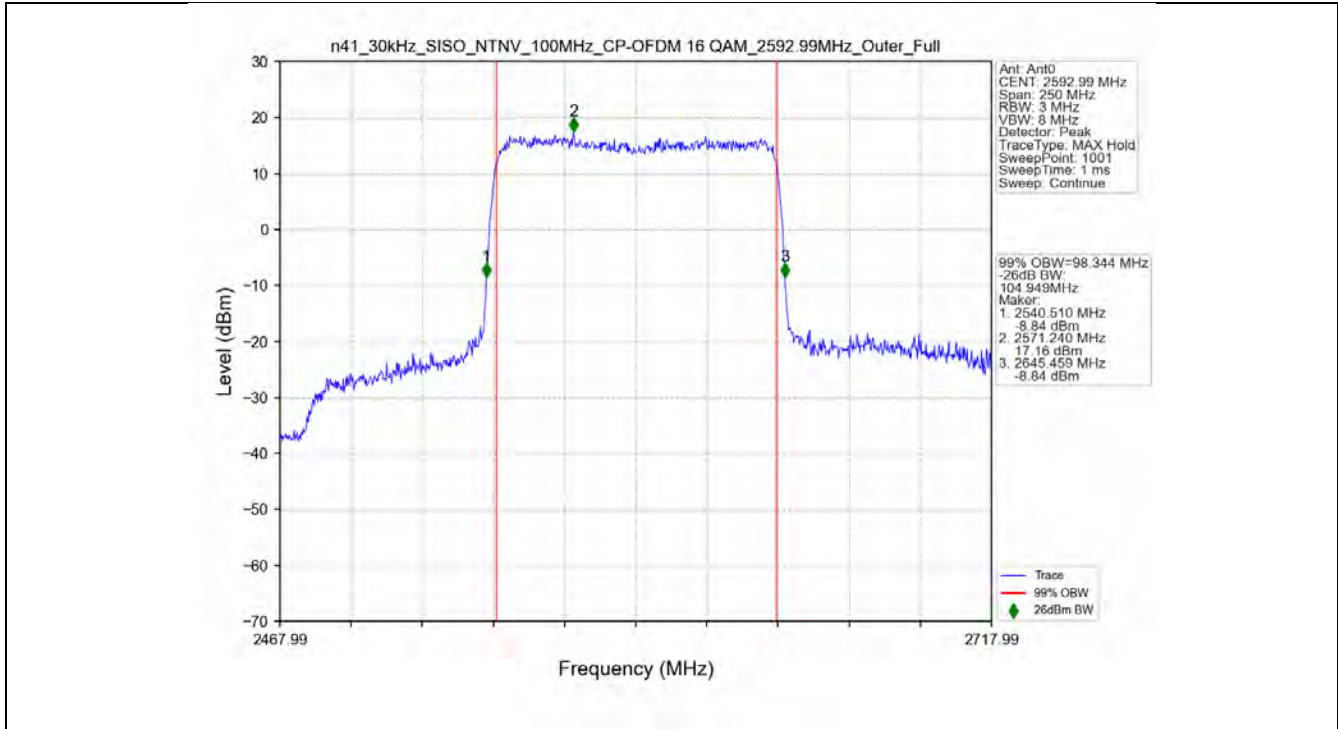


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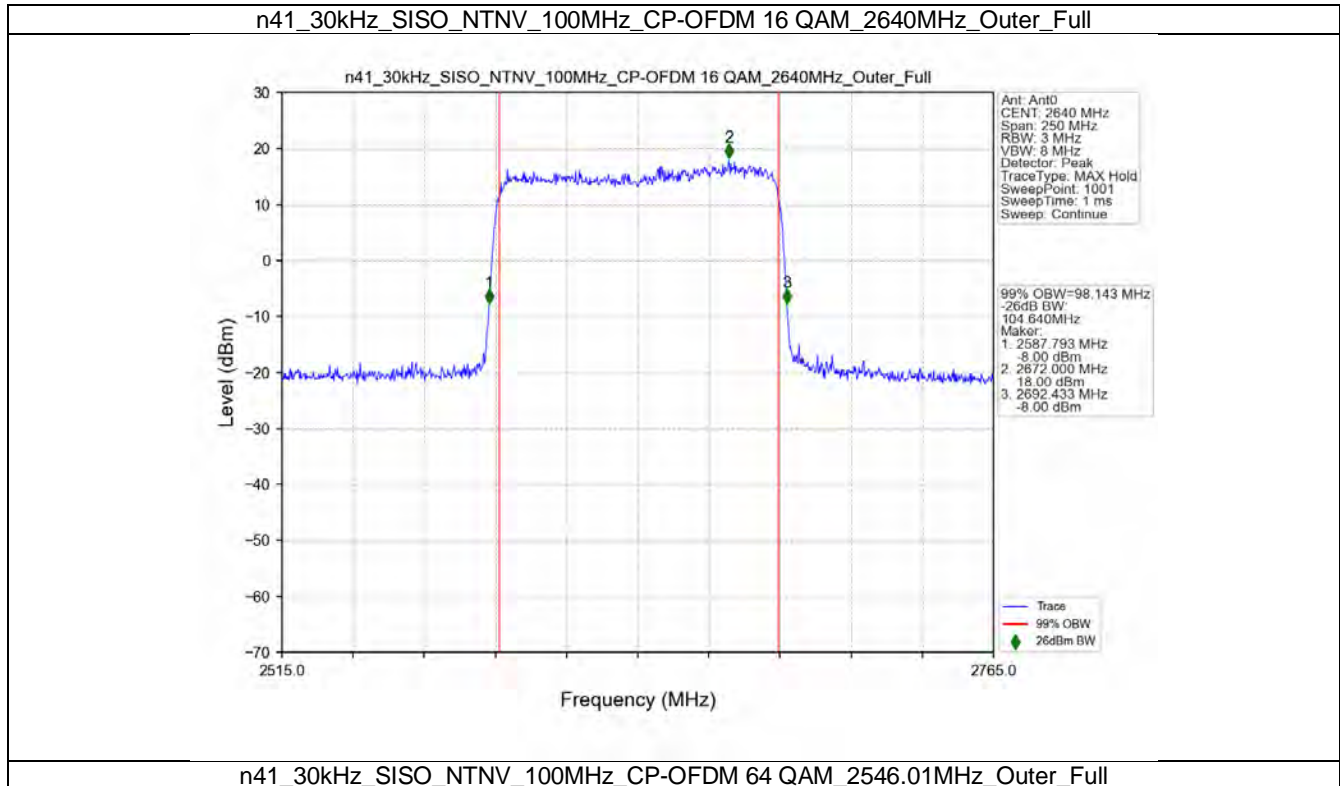


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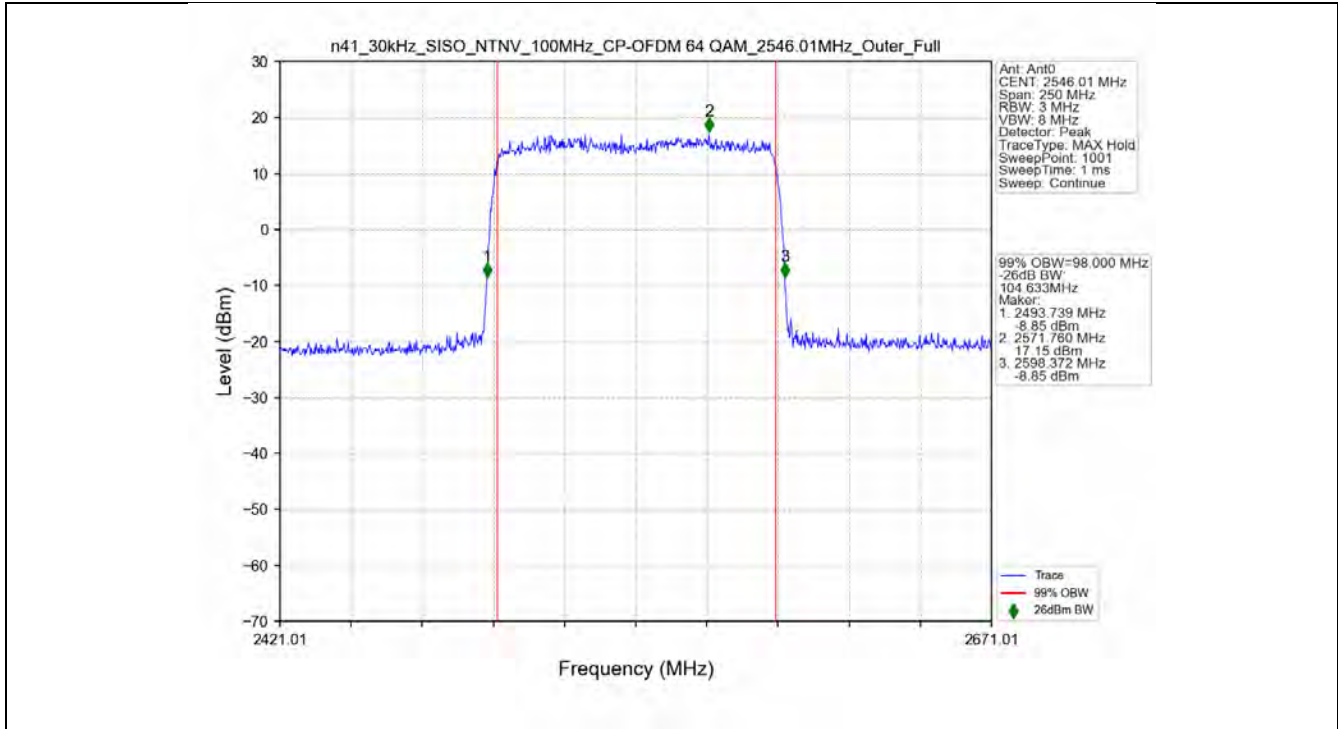


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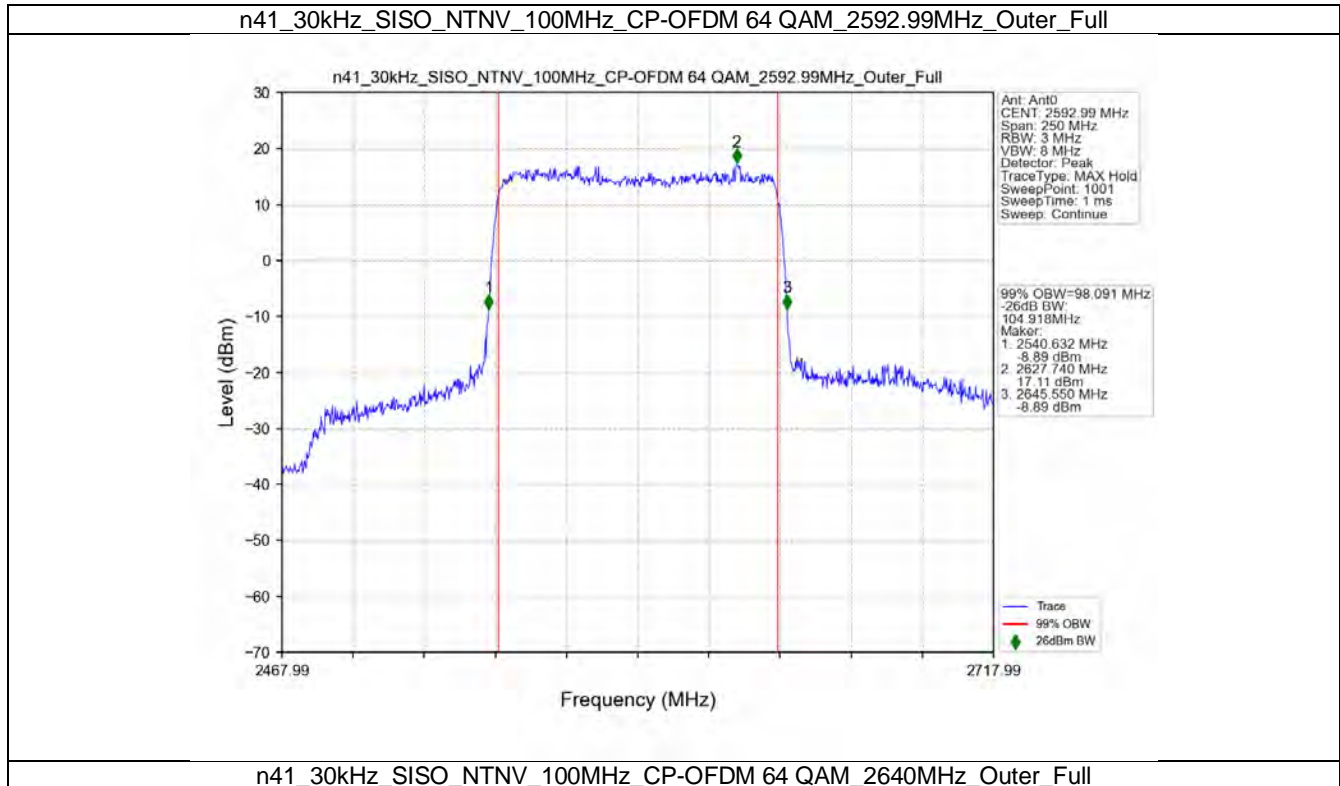


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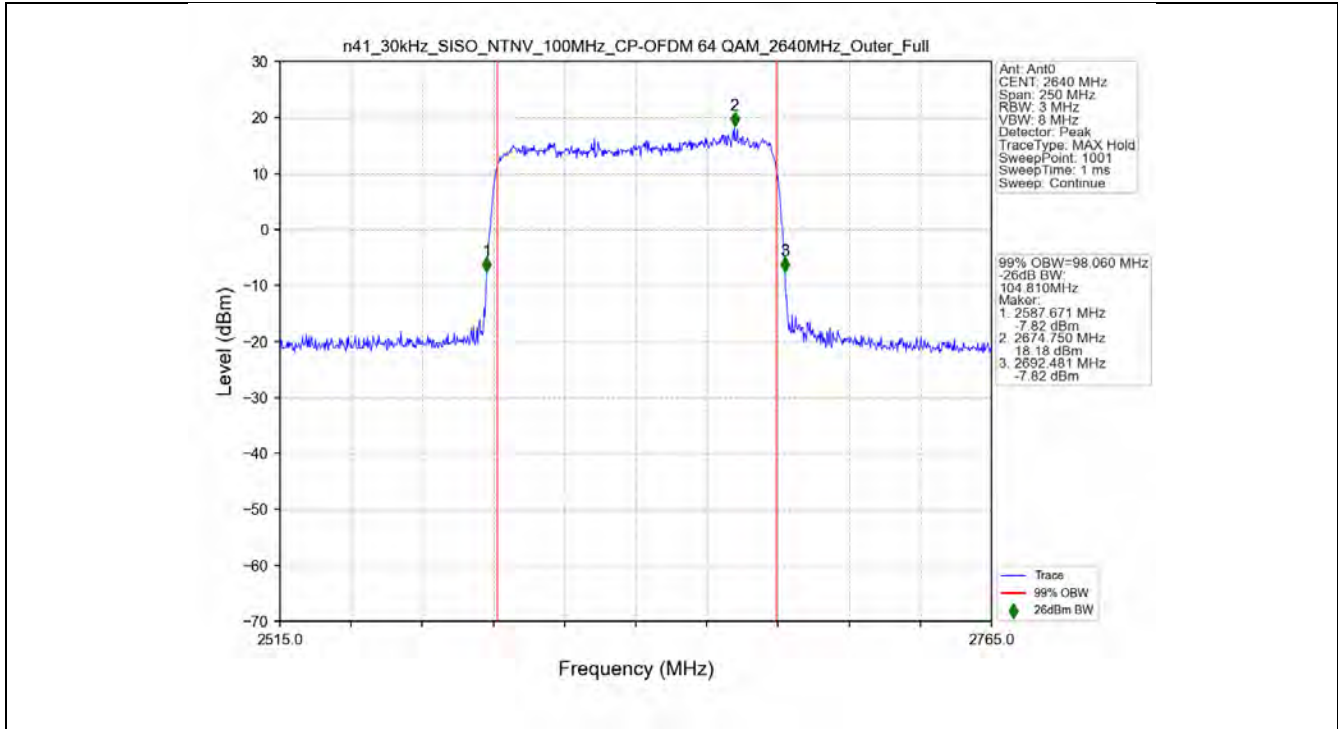


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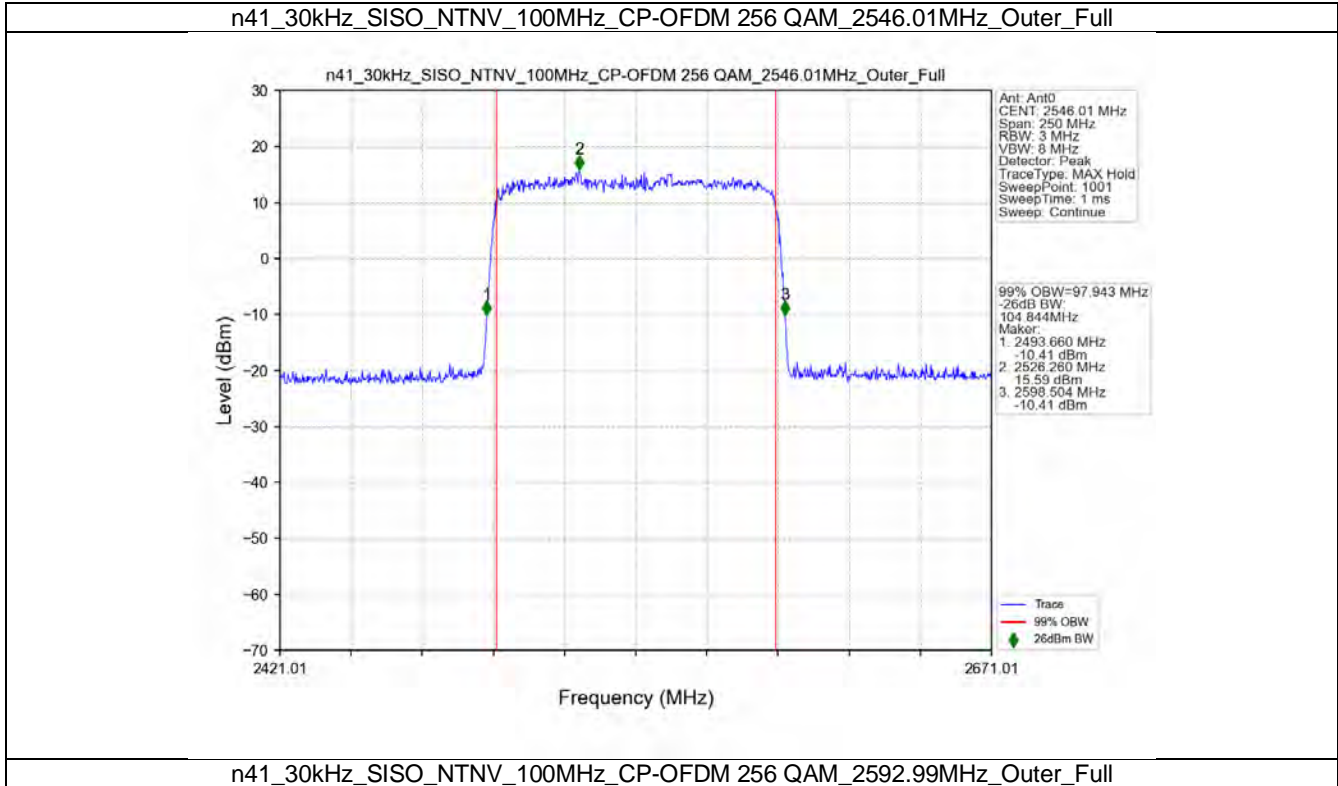


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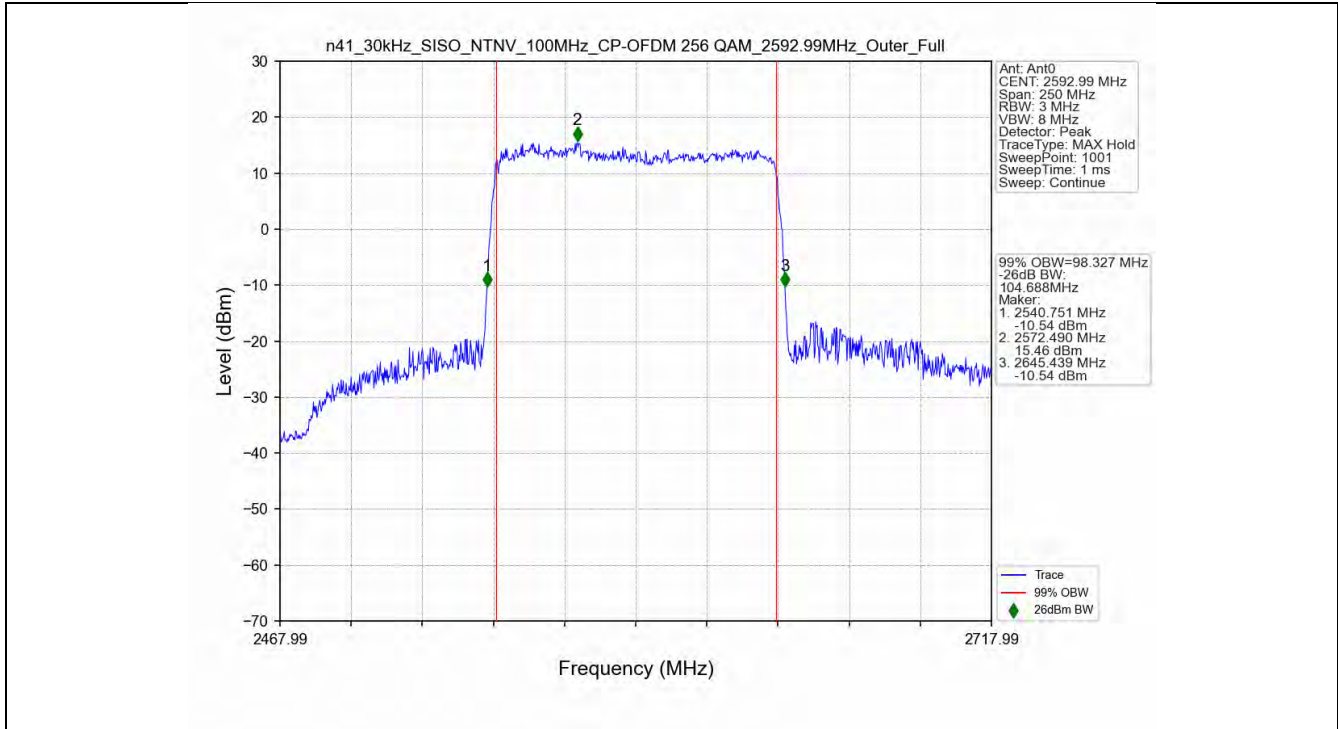


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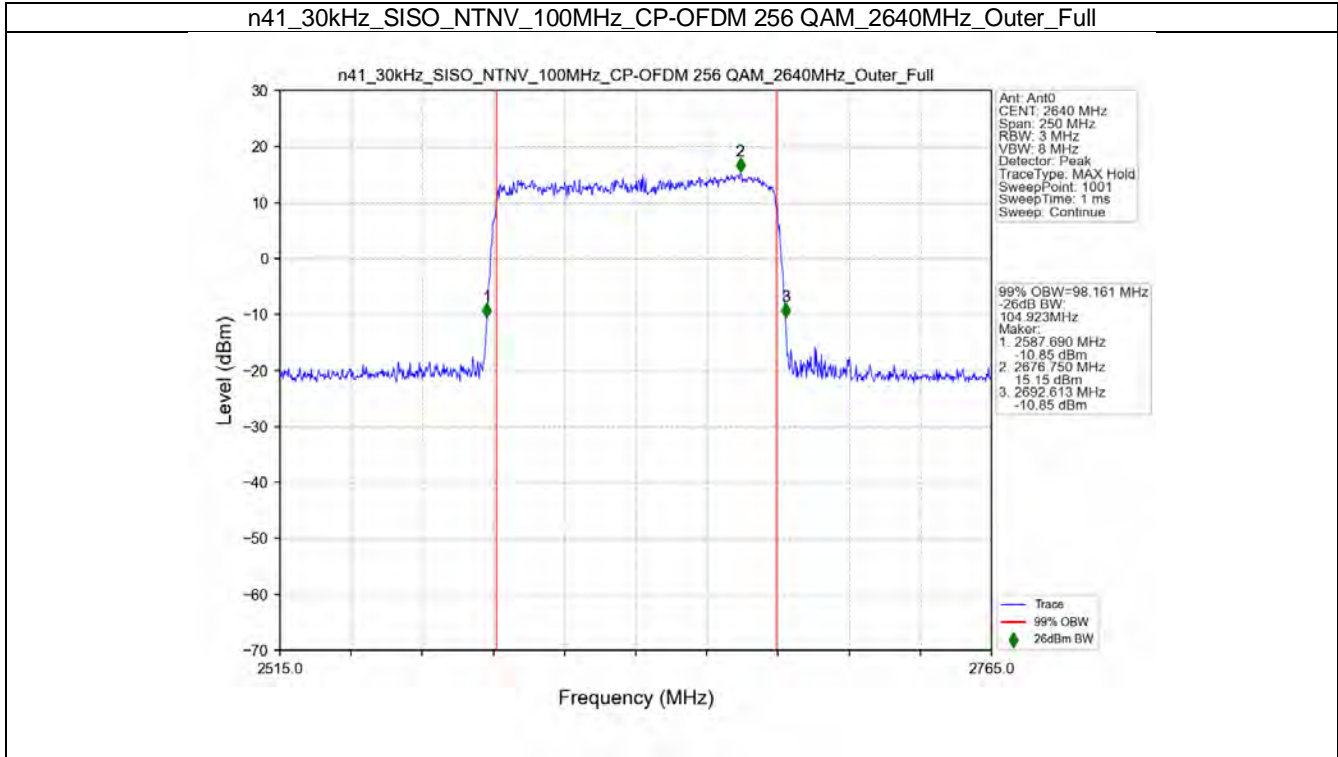


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4. Peak-Average Ratio

4.1 30k_SISO_20MHz_NTNV

4.1.1 Test Result

5G NR n41 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Limit	Verdict
			Ant0	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	2506.02	Outer_Full	8.11	/	/	<=13	Pass
	2592.99	Outer_Full	7.78	/	/	<=13	Pass
	2679.99	Outer_Full	7.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	2506.02	Outer_Full	8.85	/	/	<=13	Pass
	2592.99	Outer_Full	8.43	/	/	<=13	Pass
	2679.99	Outer_Full	8.33	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2506.02	Outer_Full	9.60	/	/	<=13	Pass
	2592.99	Outer_Full	9.62	/	/	<=13	Pass
	2679.99	Outer_Full	8.89	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2506.02	Outer_Full	9.68	/	/	<=13	Pass
	2592.99	Outer_Full	9.64	/	/	<=13	Pass
	2679.99	Outer_Full	9.79	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2506.02	Outer_Full	10.29	/	/	<=13	Pass
	2592.99	Outer_Full	10.18	/	/	<=13	Pass
	2679.99	Outer_Full	9.77	/	/	<=13	Pass
CP-OFDM QPSK	2506.02	Outer_Full	11.29	/	/	<=13	Pass
	2592.99	Outer_Full	10.29	/	/	<=13	Pass
	2679.99	Outer_Full	10.34	/	/	<=13	Pass
CP-OFDM 16 QAM	2506.02	Outer_Full	10.50	/	/	<=13	Pass
	2592.99	Outer_Full	10.25	/	/	<=13	Pass
	2679.99	Outer_Full	11.02	/	/	<=13	Pass
CP-OFDM 64 QAM	2506.02	Outer_Full	10.56	/	/	<=13	Pass
	2592.99	Outer_Full	10.93	/	/	<=13	Pass
	2679.99	Outer_Full	10.90	/	/	<=13	Pass
CP-OFDM 256 QAM	2506.02	Outer_Full	11.97	/	/	<=13	Pass
	2592.99	Outer_Full	11.94	/	/	<=13	Pass
	2679.99	Outer_Full	11.53	/	/	<=13	Pass



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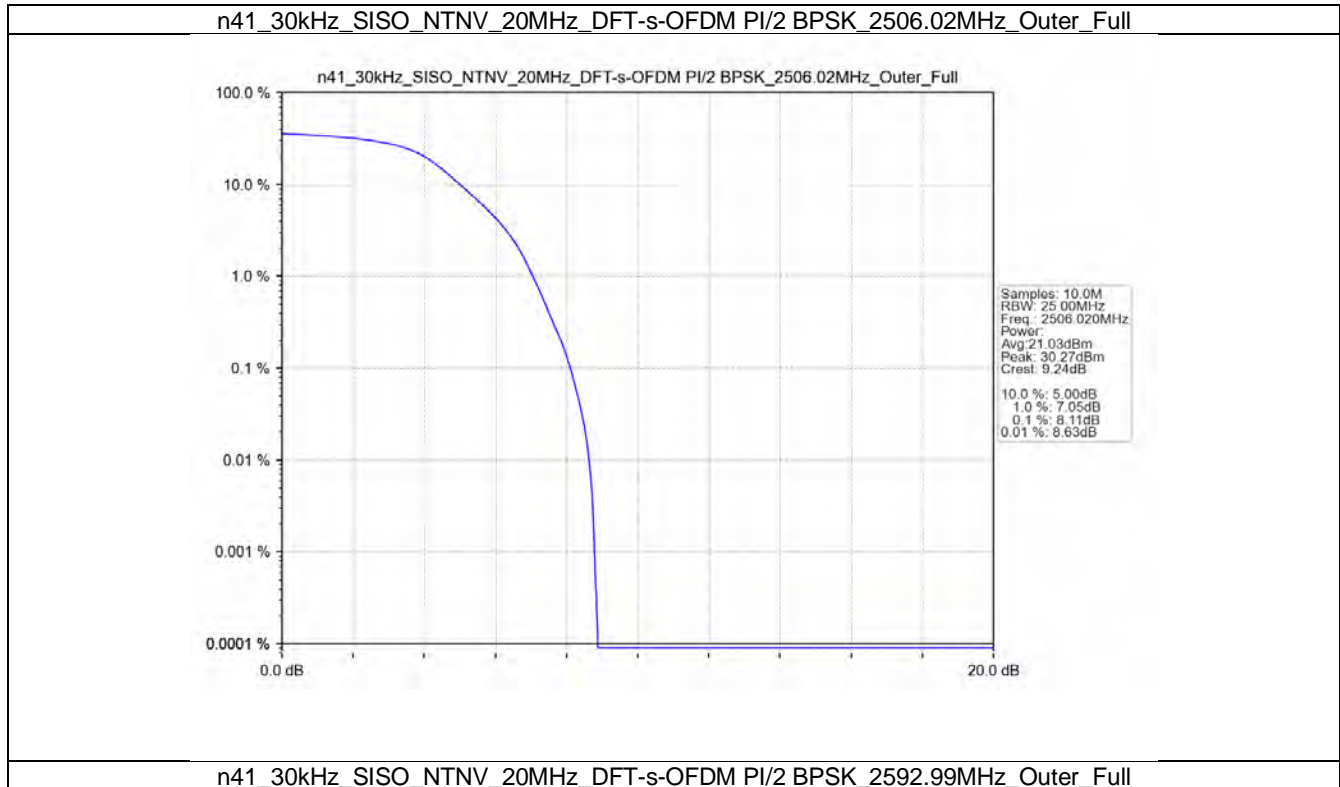
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4.1.2 Test Graph



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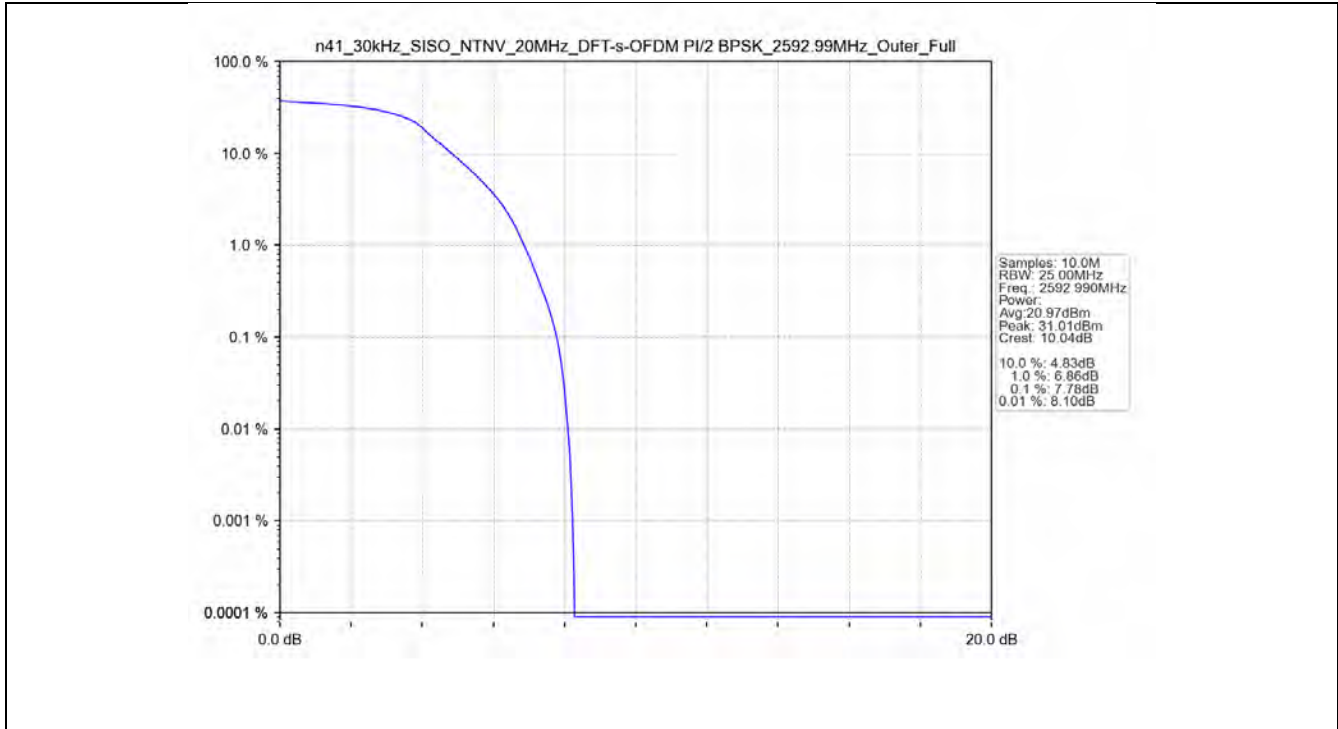


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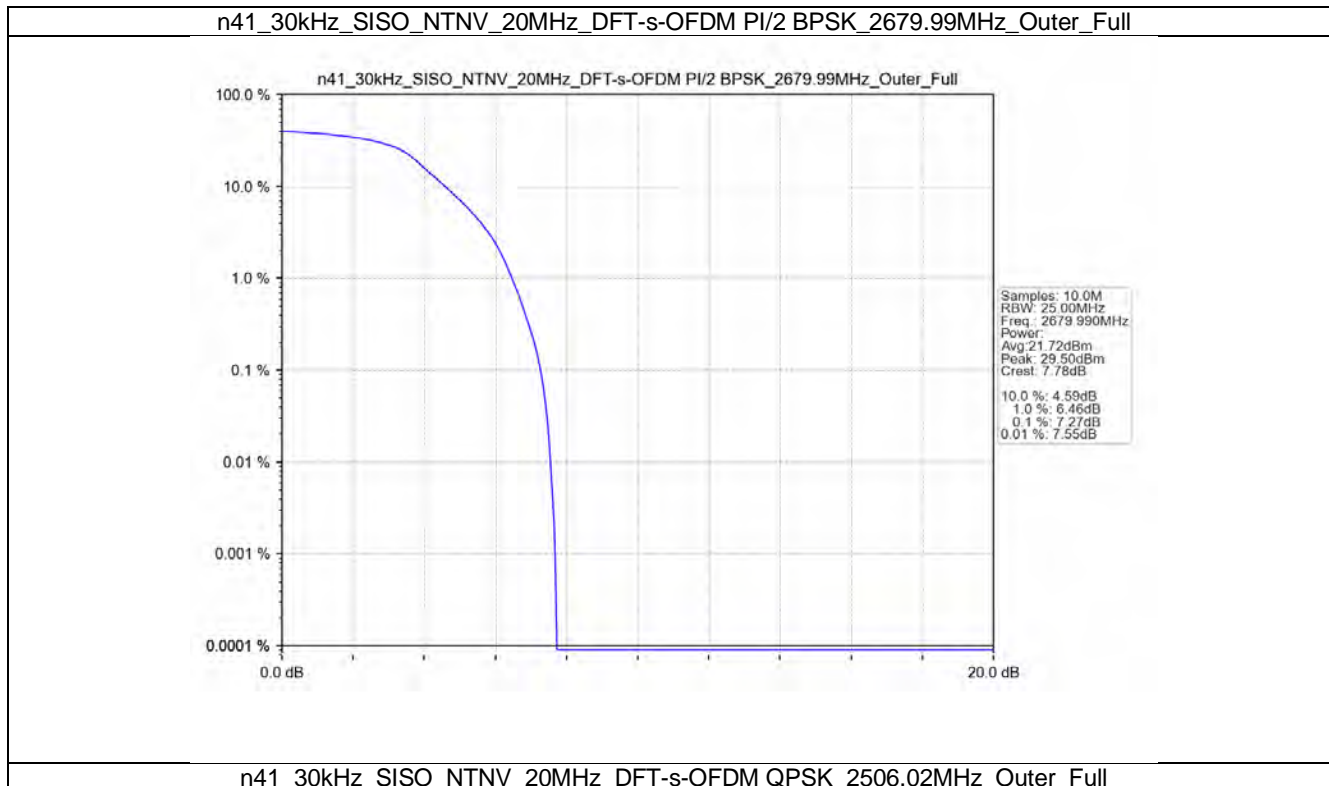
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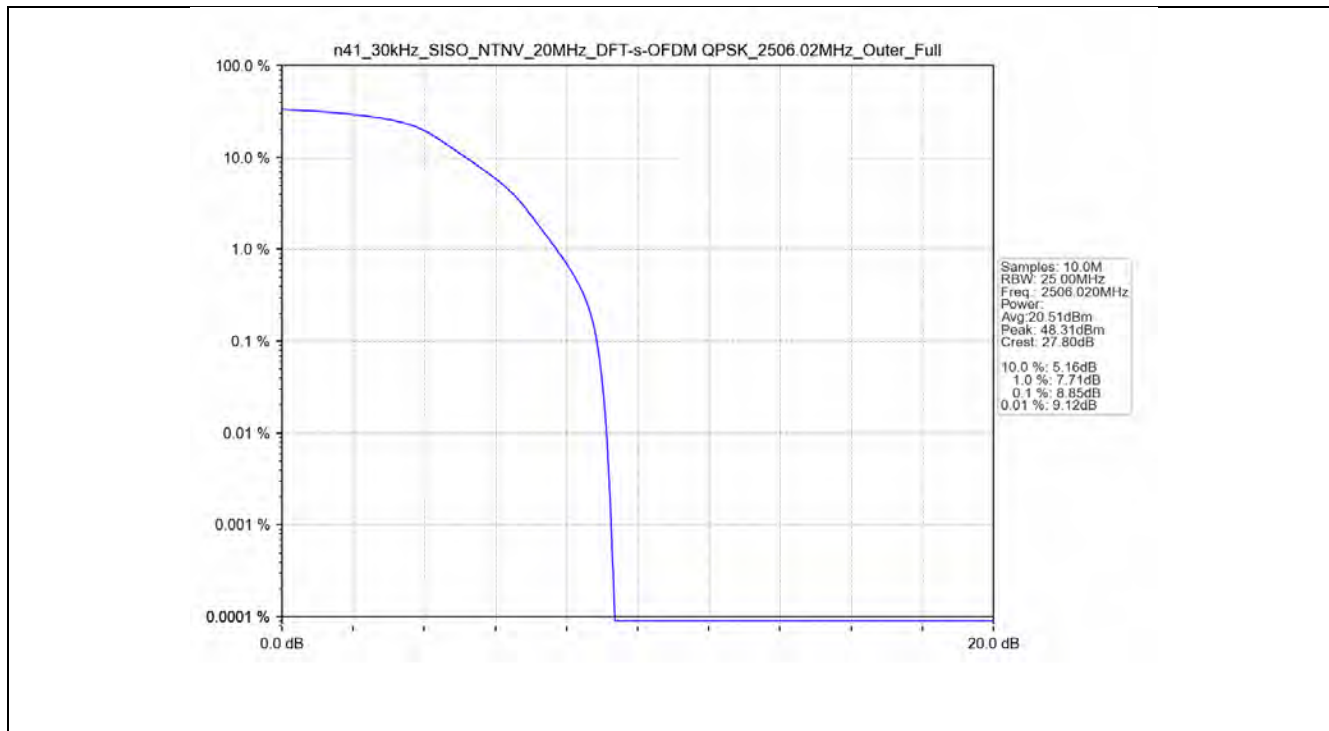
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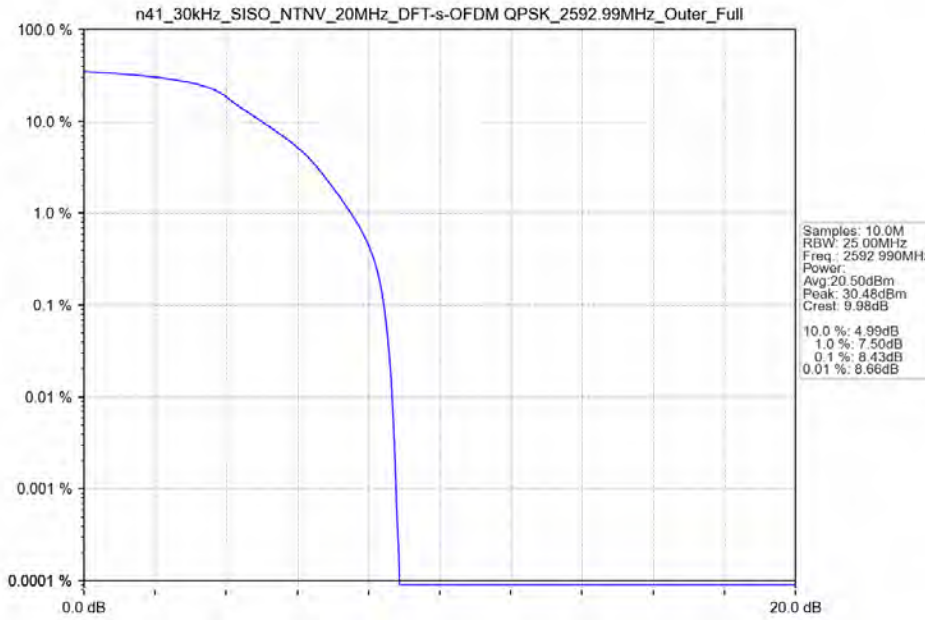
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2679.99MHz_Outer_Full



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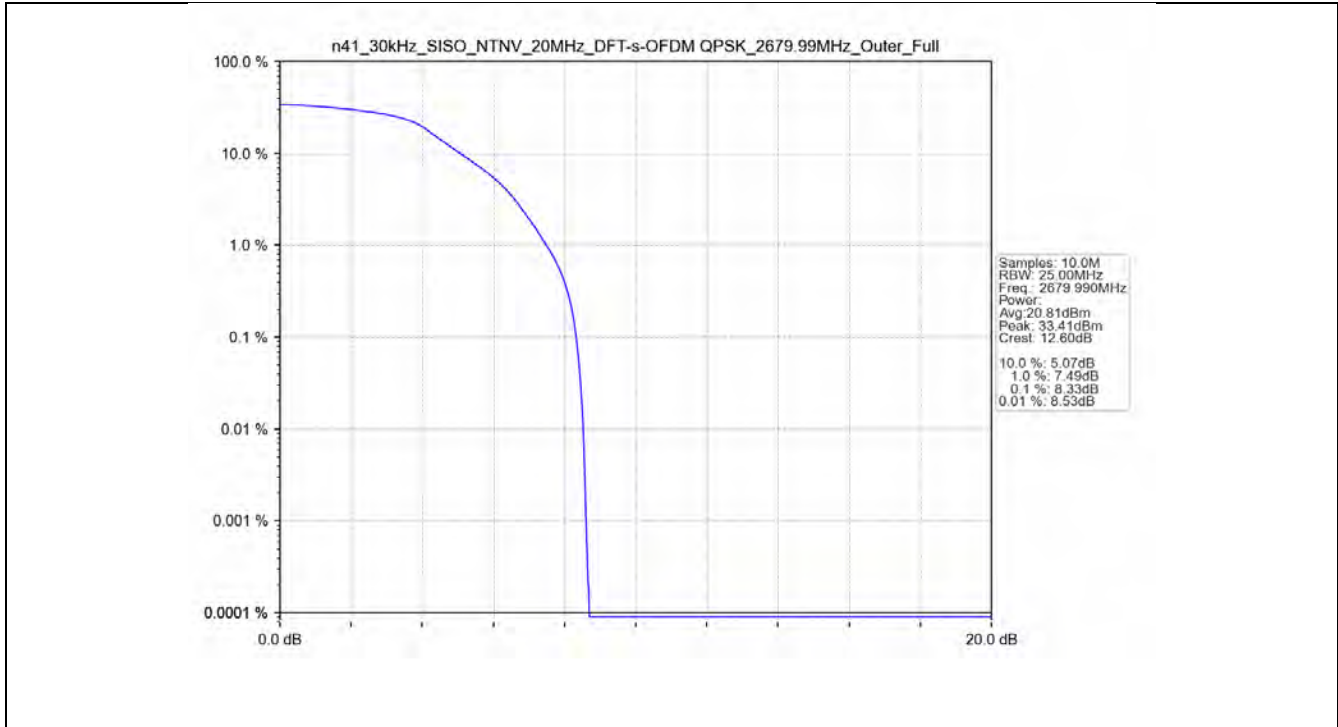


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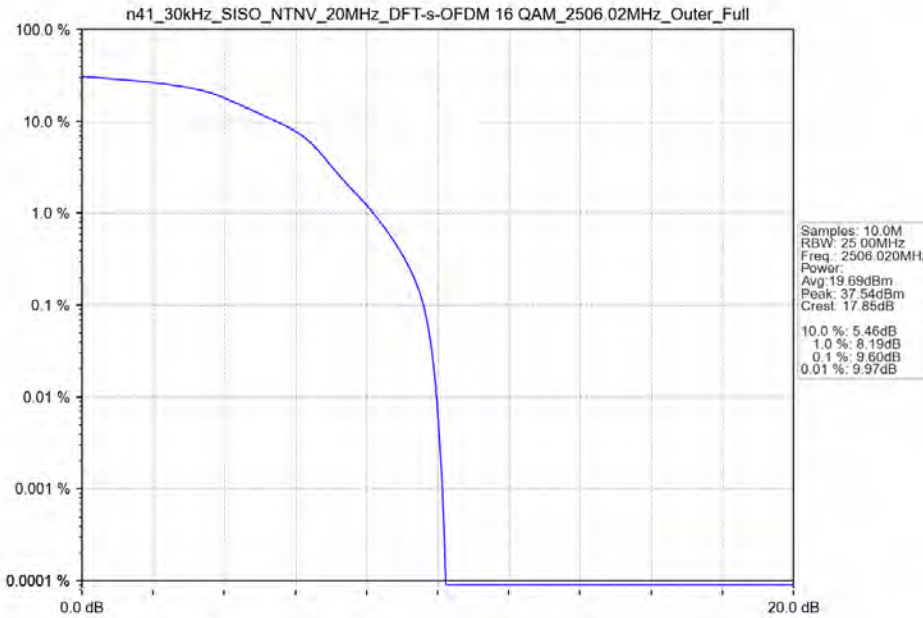
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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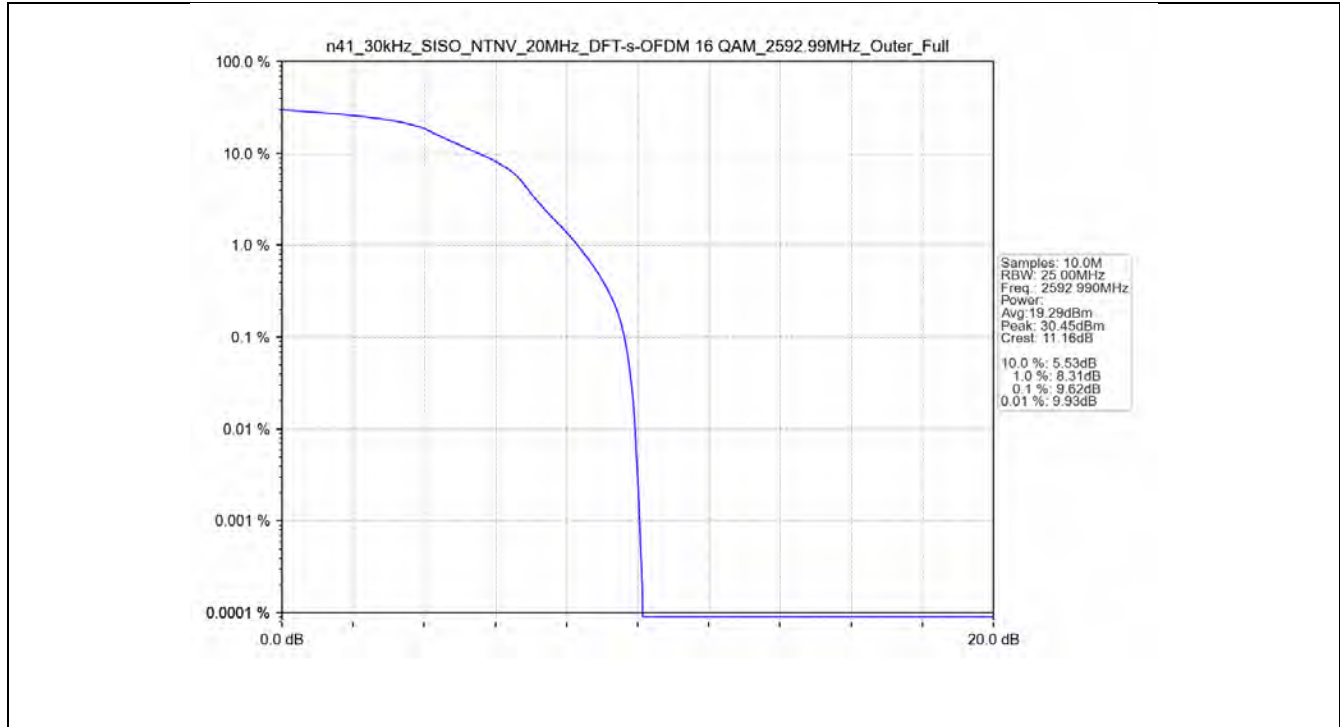


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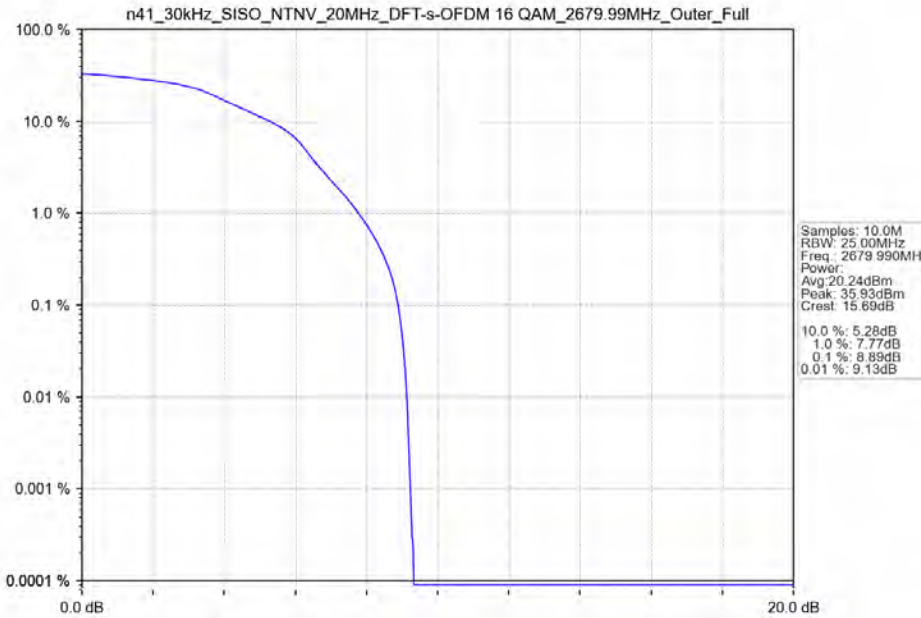
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2506.02MHz_Outer_Full



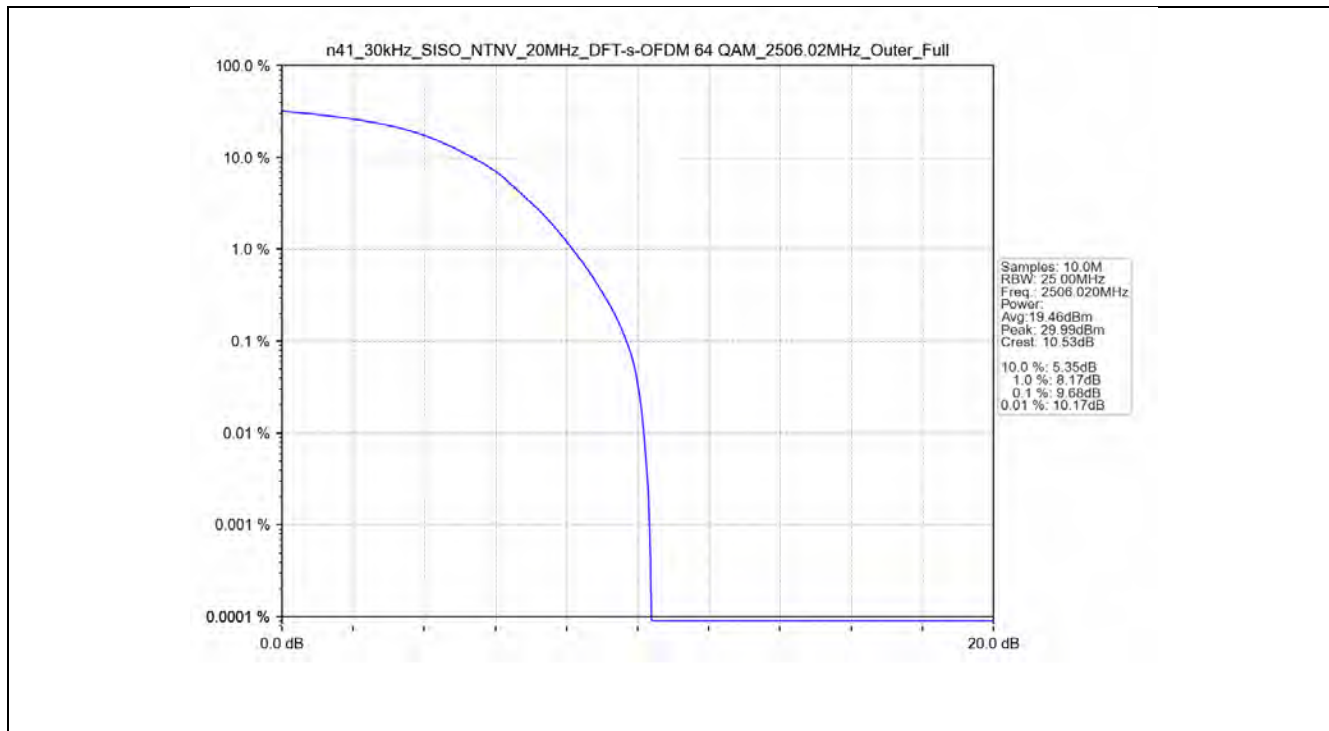
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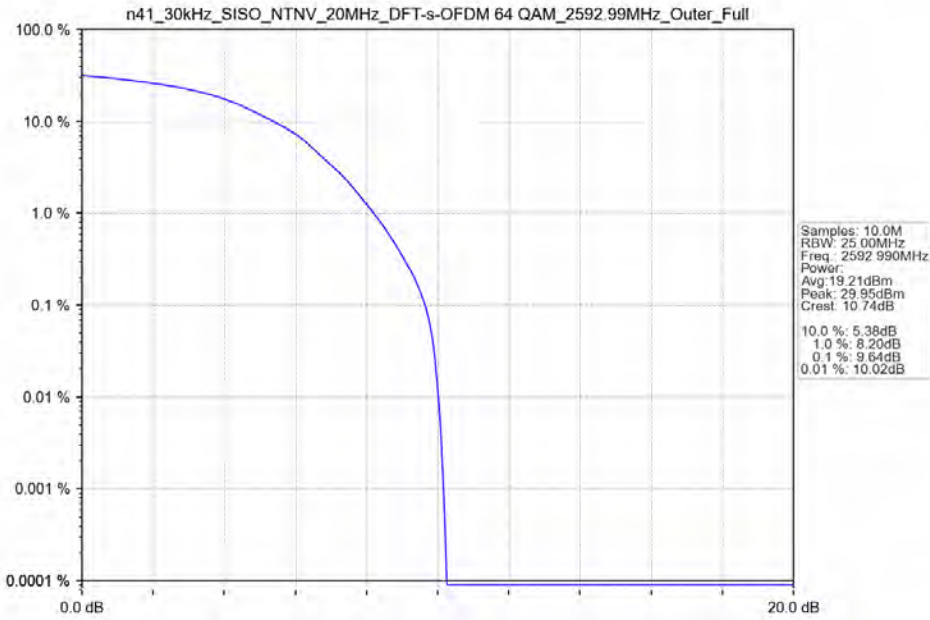
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2679.99MHz_Outer_Full



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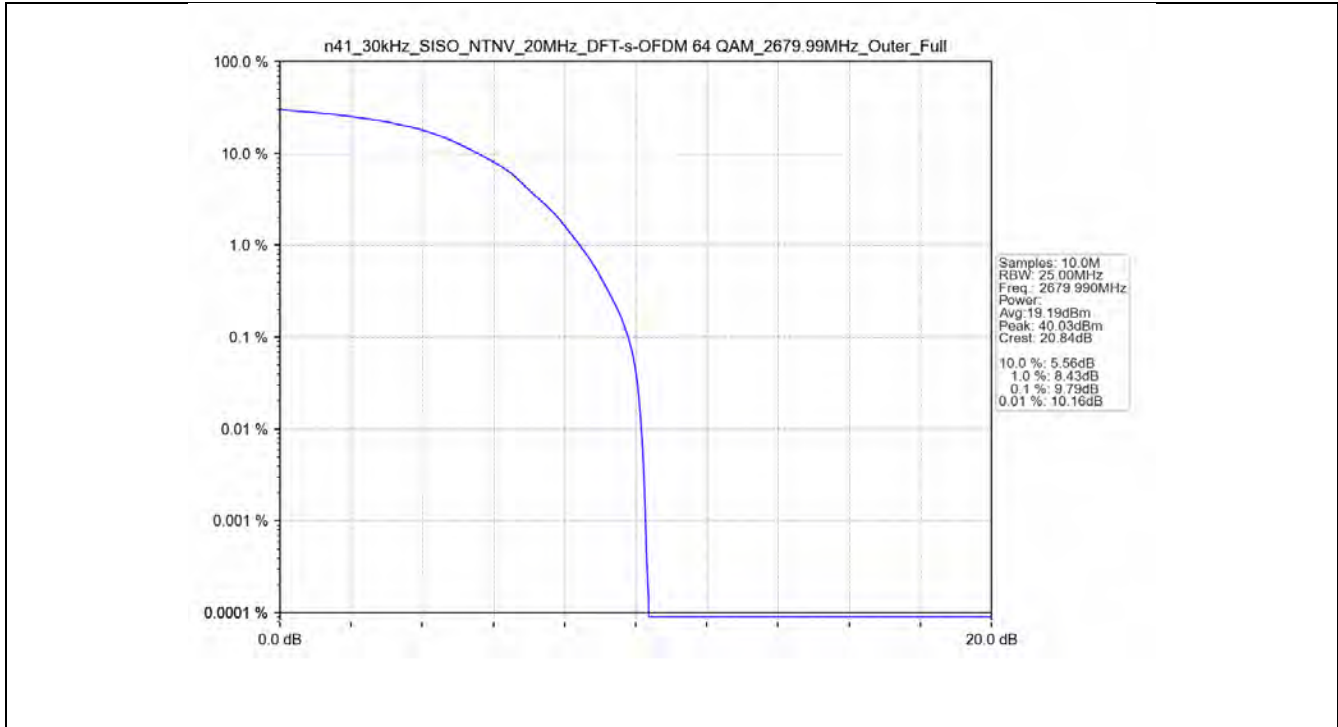


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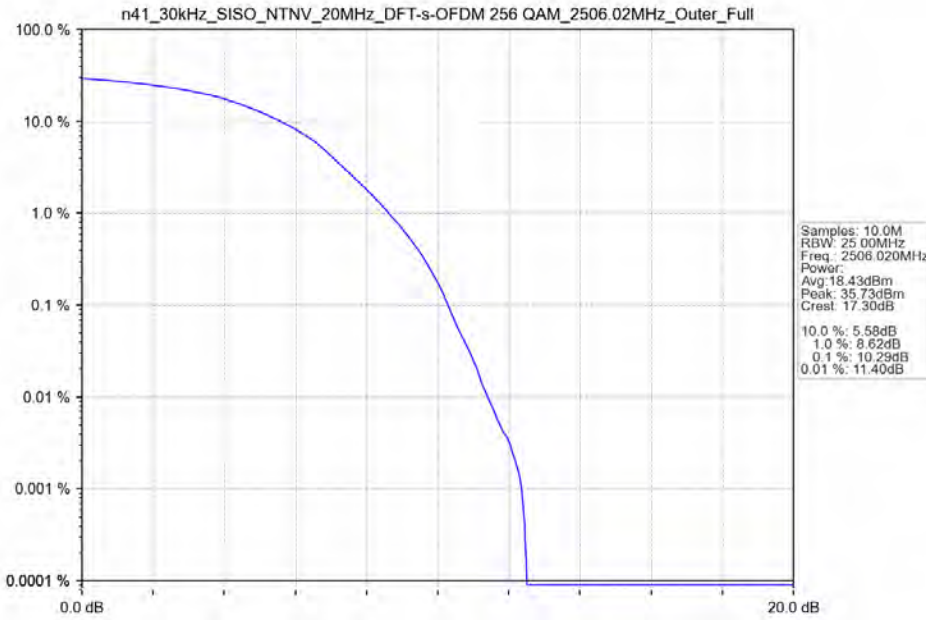
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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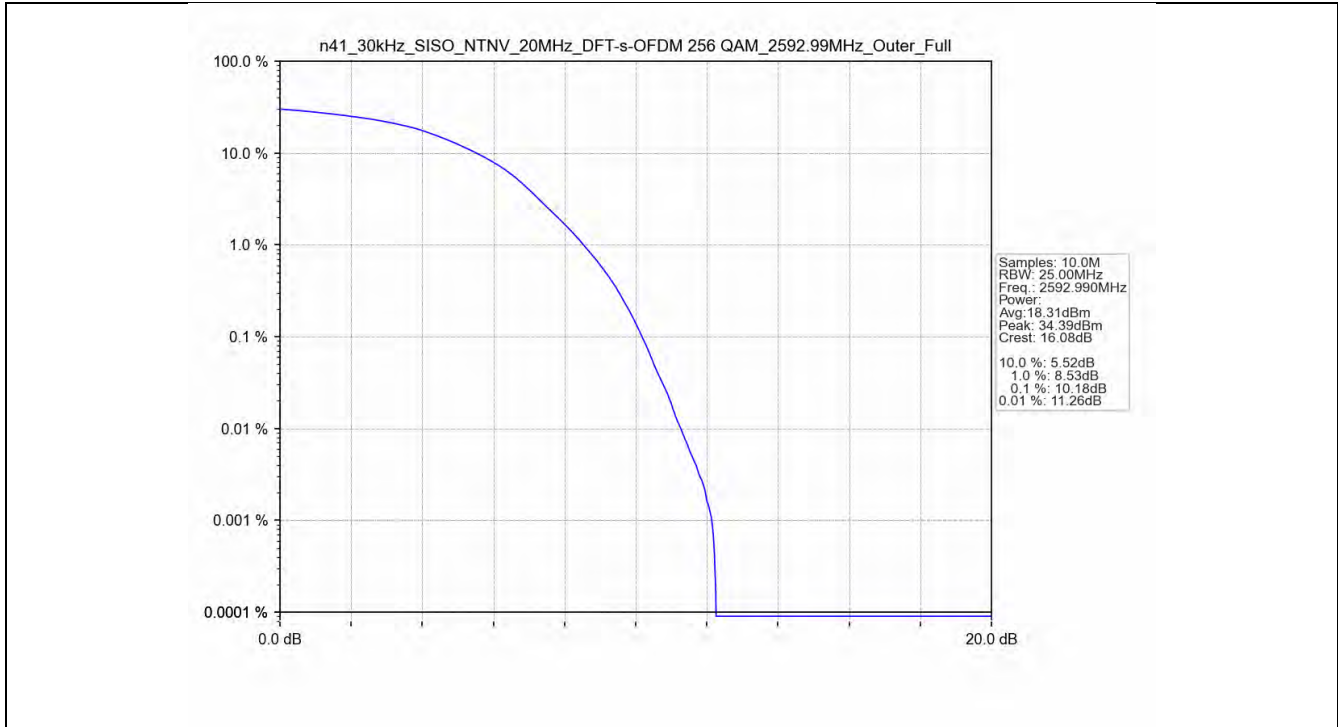


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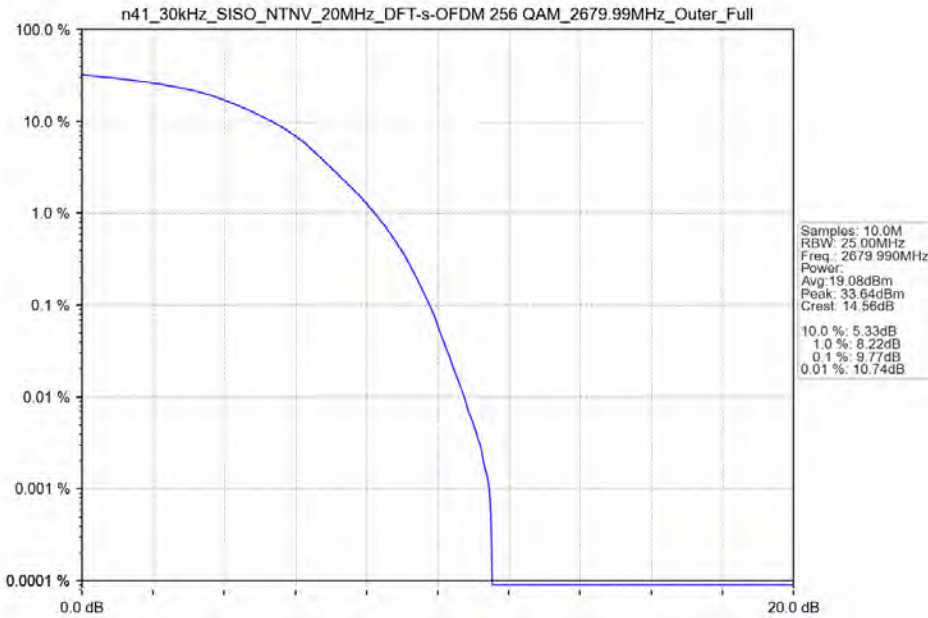
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2506.02MHz_Outer_Full



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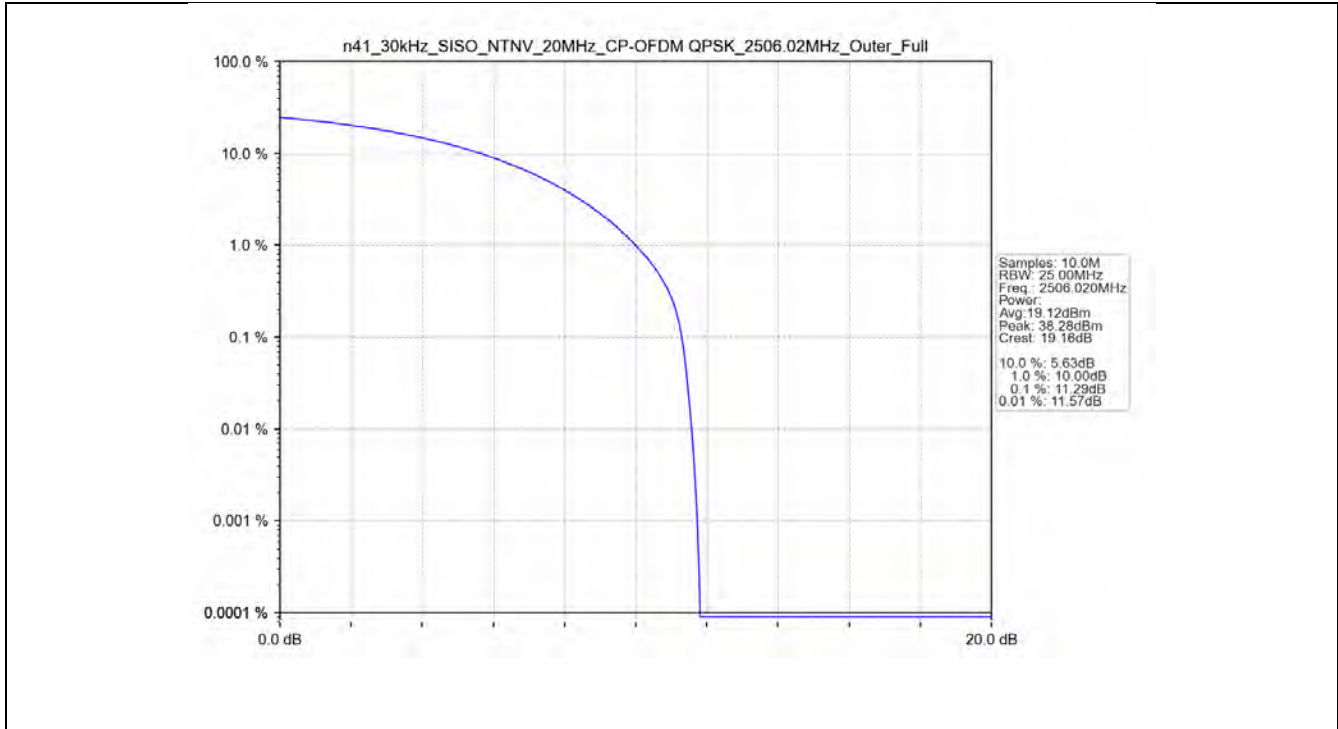


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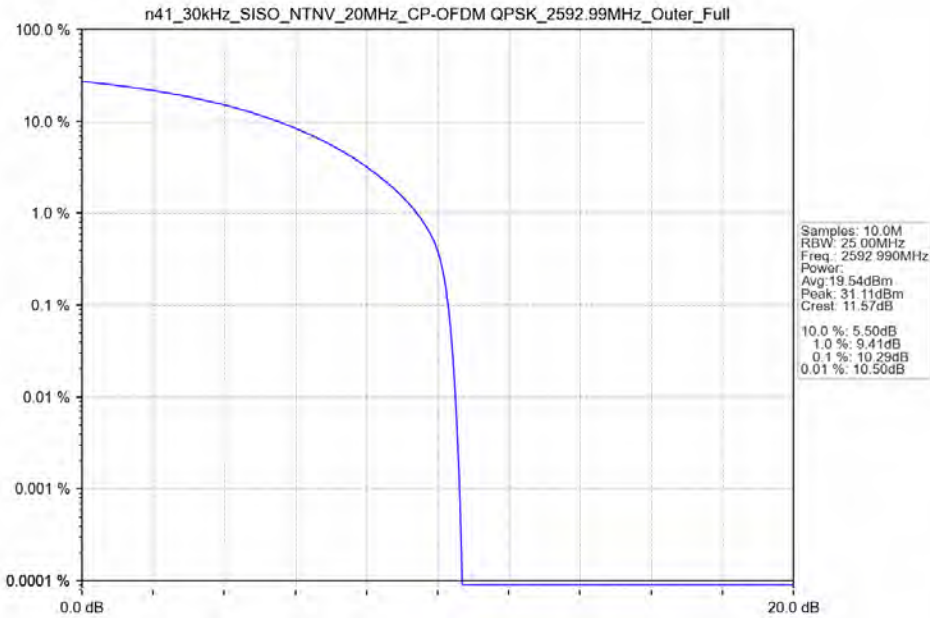
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2679.99MHz_Outer_Full



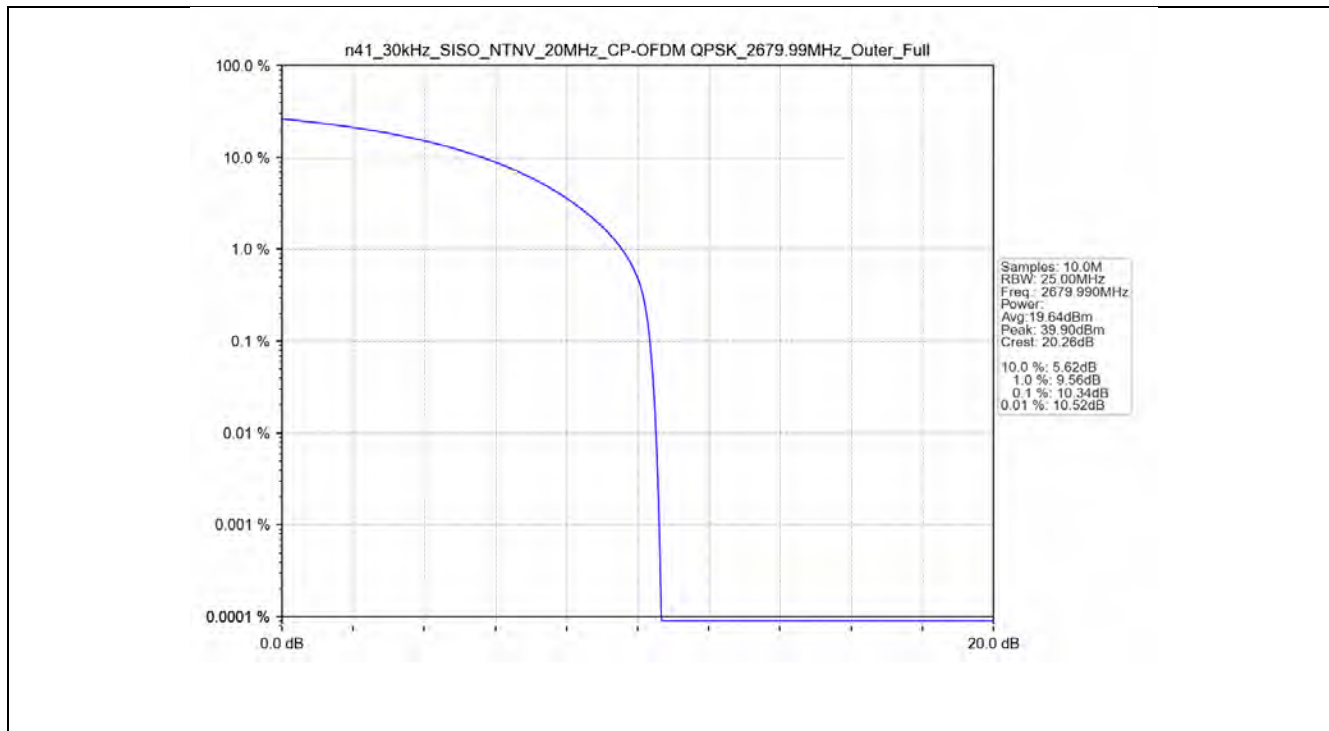
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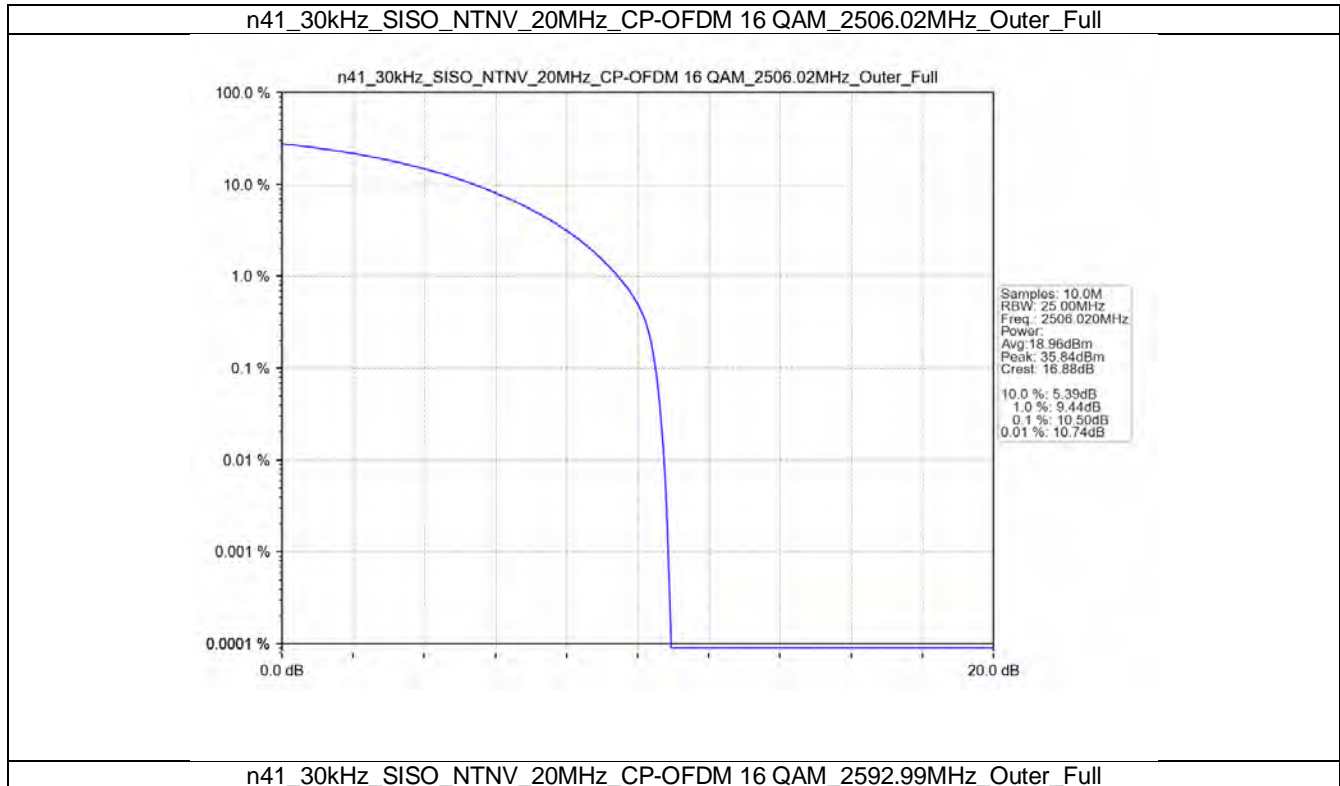


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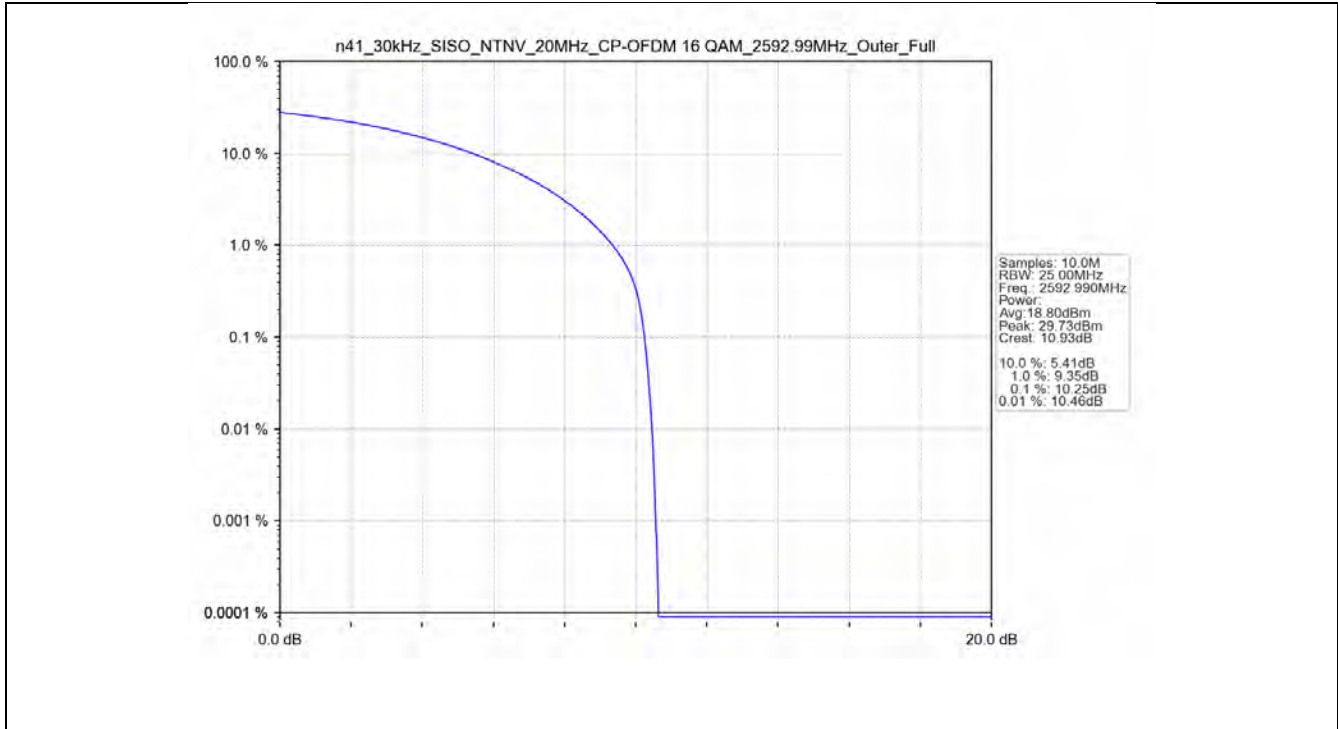


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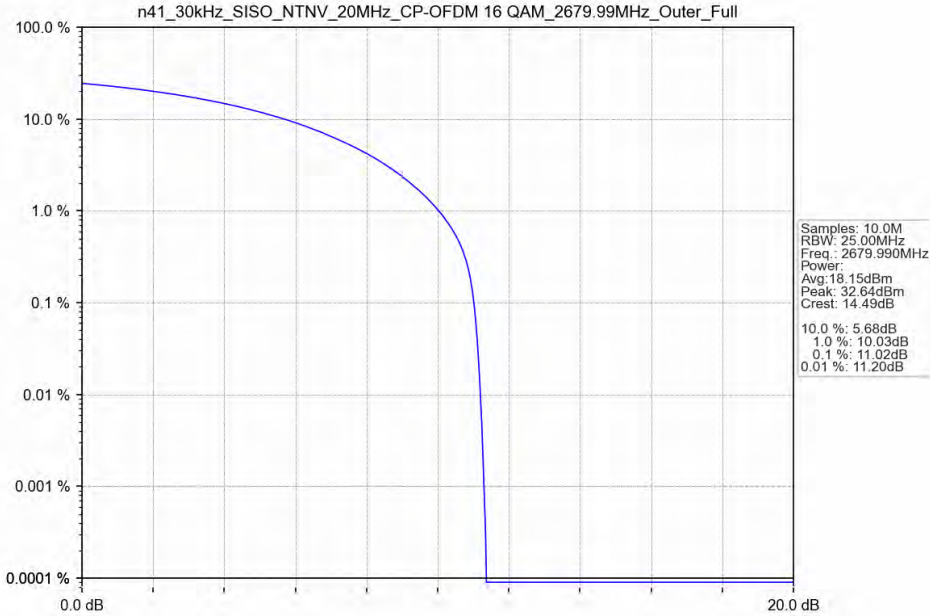
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2506.02MHz_Outer_Full



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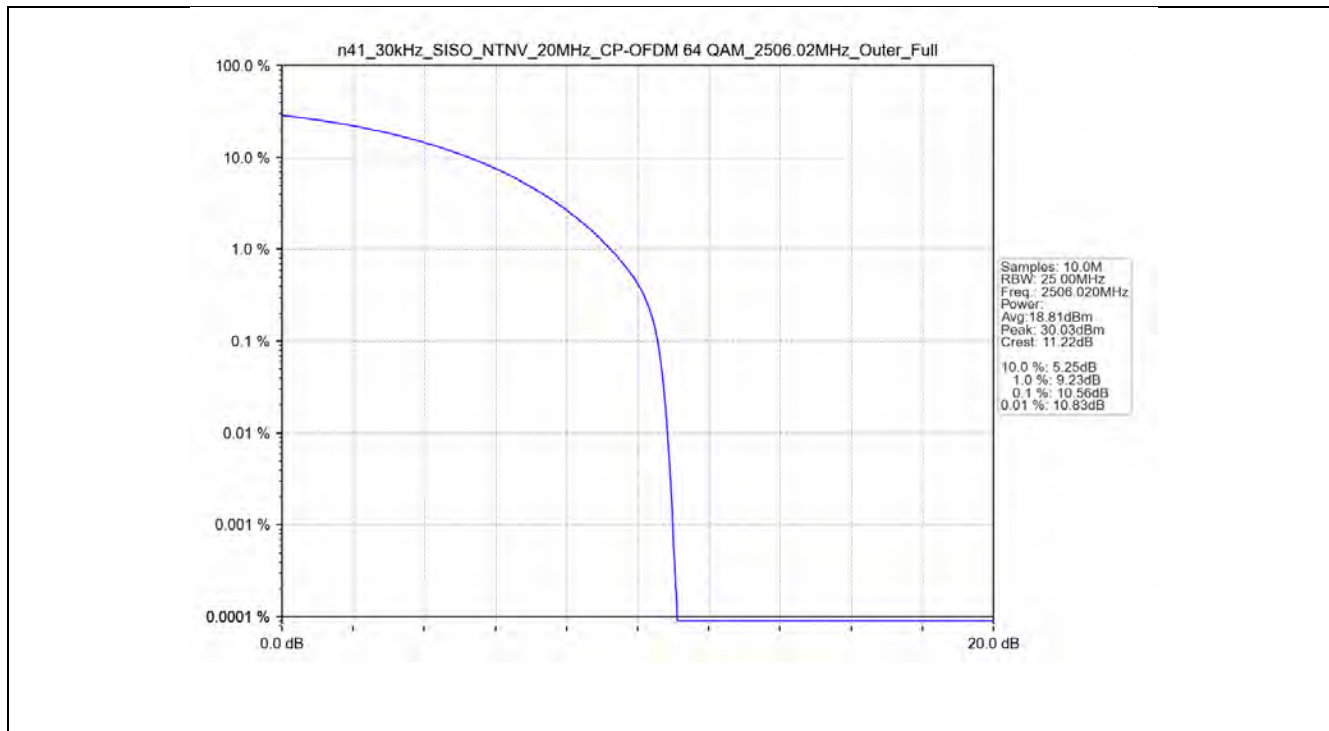
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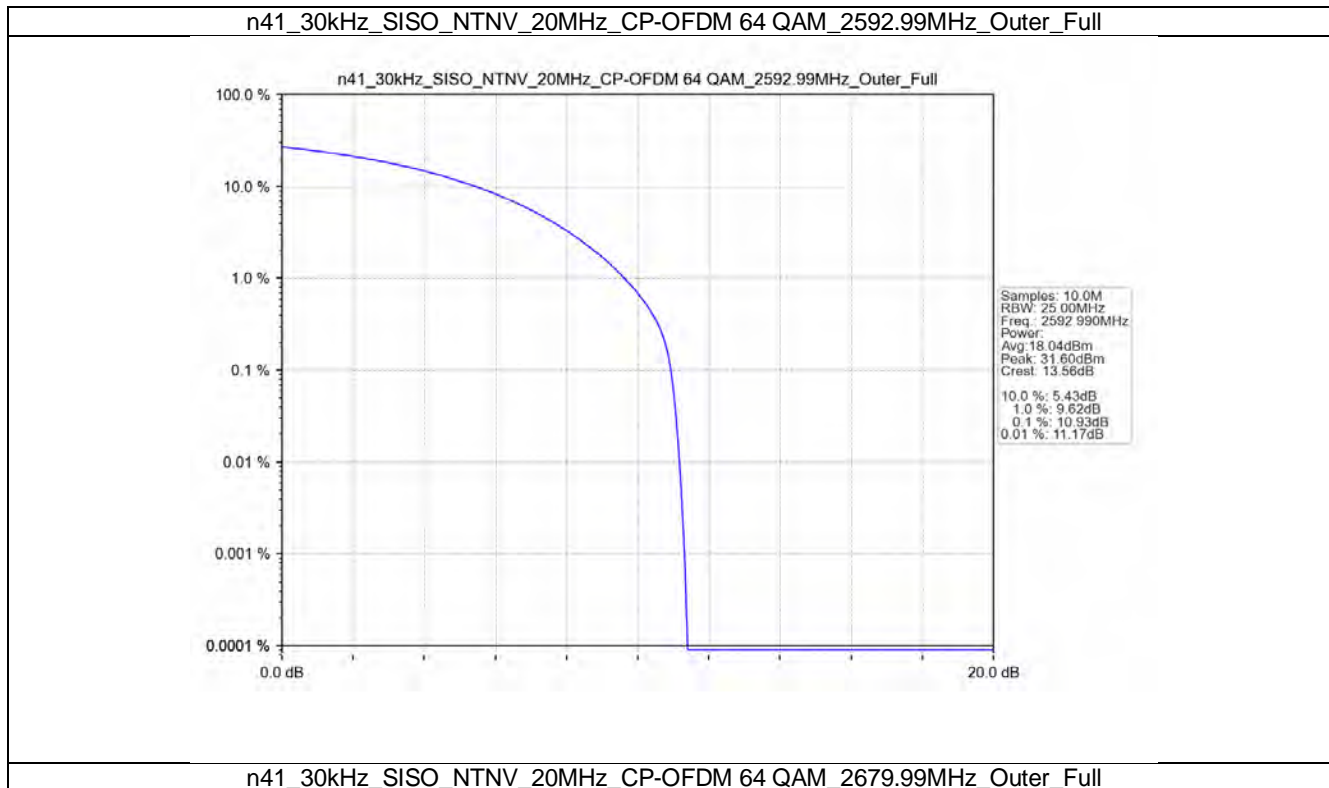
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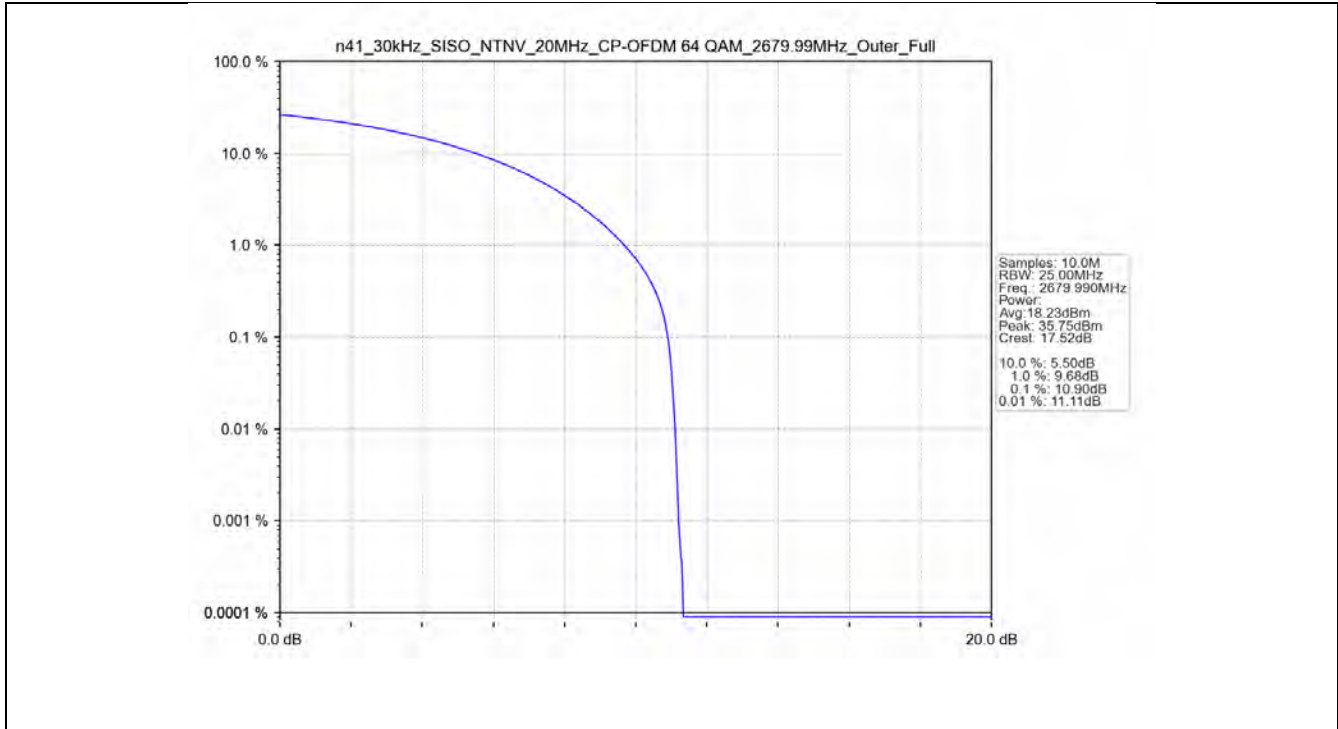


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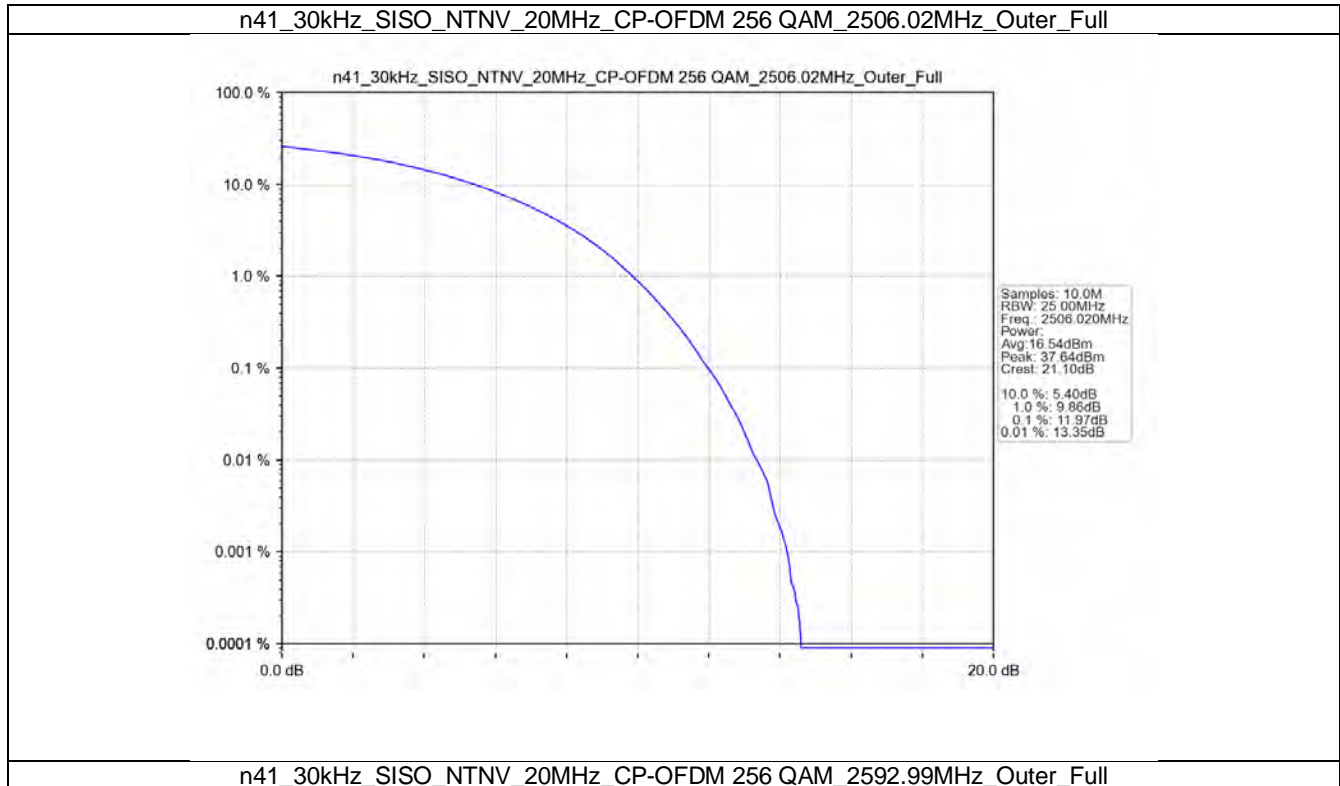


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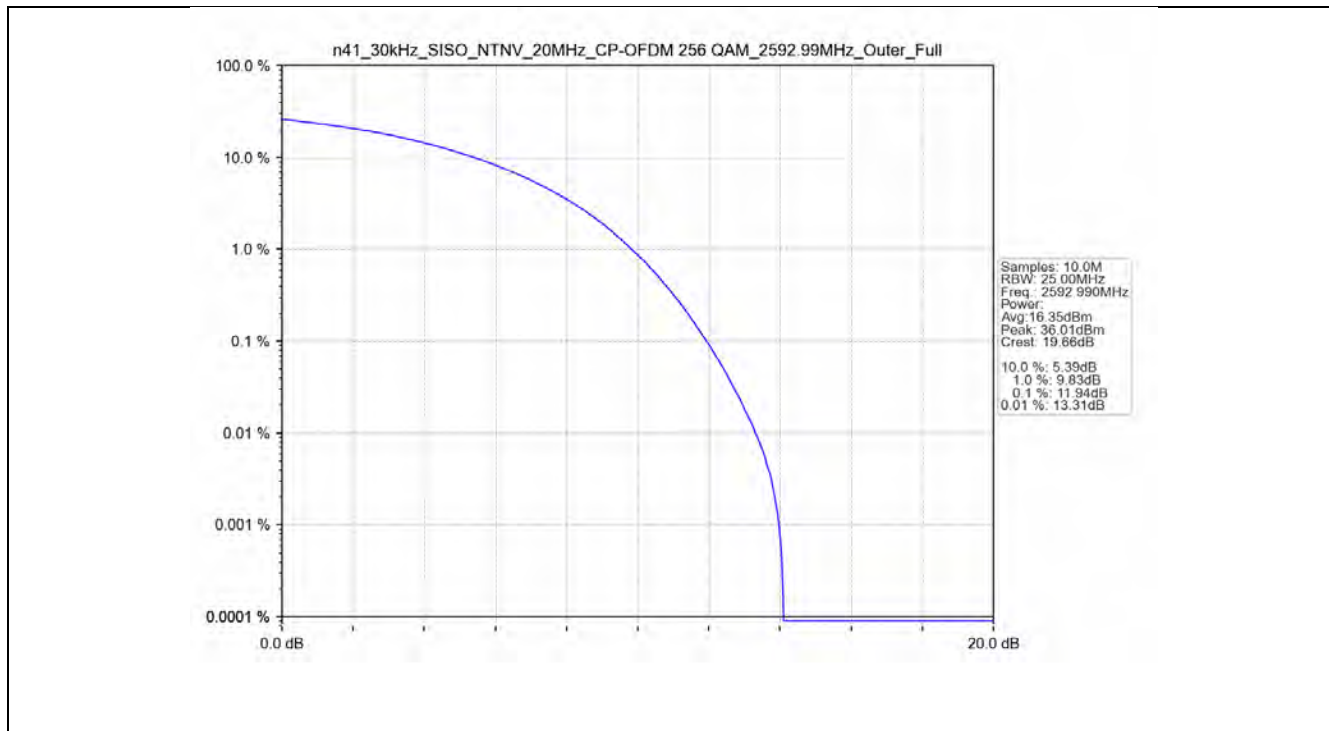
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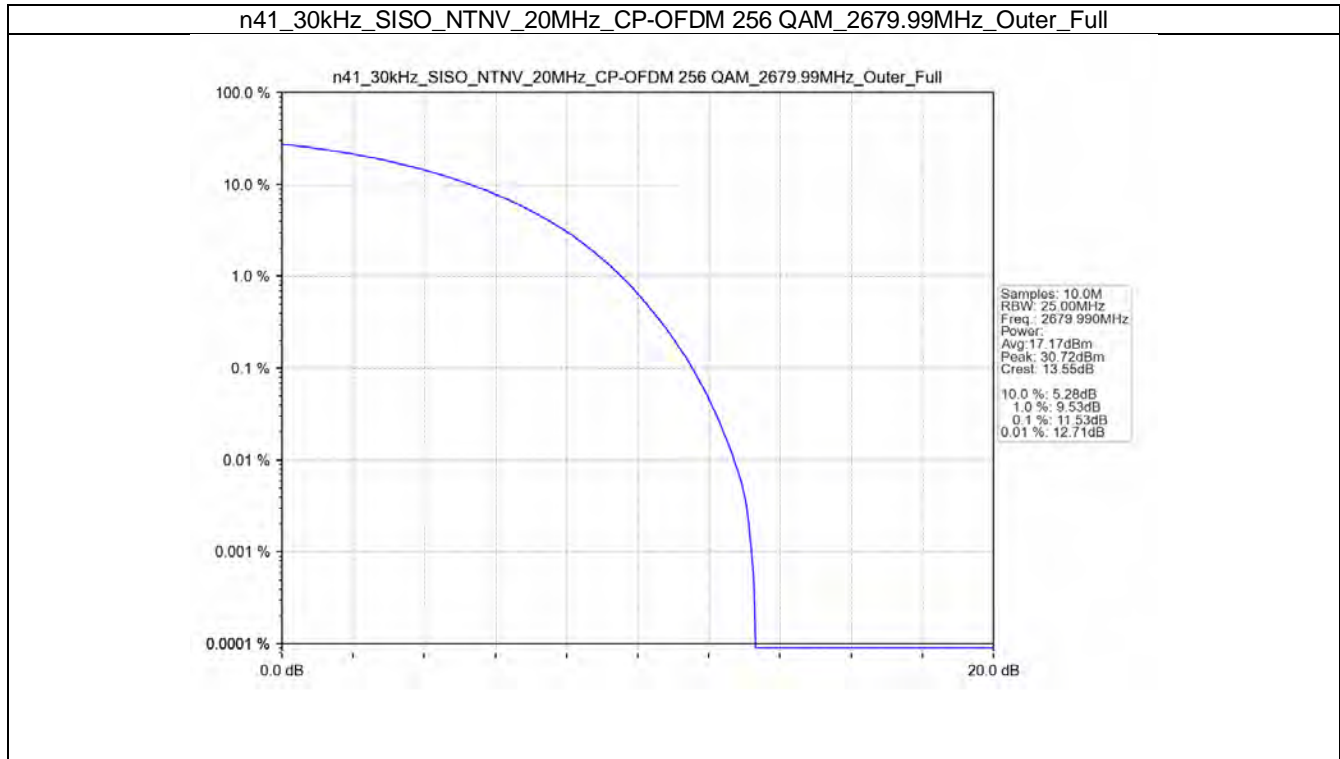


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4.2 30k_SISO_30MHz_NTNV

4.2.1 Test Result

5G NR n41 SCS=30kHz SISO 30MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2511	Outer_Full	7.71	/	/	<=13	Pass
	2592.99	Outer_Full	9.32	/	/	<=13	Pass
	2674.98	Outer_Full	8.88	/	/	<=13	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	8.88	/	/	<=13	Pass
	2592.99	Outer_Full	8.45	/	/	<=13	Pass
	2674.98	Outer_Full	8.43	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	9.63	/	/	<=13	Pass
	2592.99	Outer_Full	9.73	/	/	<=13	Pass
	2674.98	Outer_Full	9.63	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	9.96	/	/	<=13	Pass
	2592.99	Outer_Full	9.96	/	/	<=13	Pass
	2674.98	Outer_Full	9.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	9.62	/	/	<=13	Pass
	2592.99	Outer_Full	10.36	/	/	<=13	Pass
	2674.98	Outer_Full	10.22	/	/	<=13	Pass
CP-OFDM QPSK	2511	Outer_Full	10.38	/	/	<=13	Pass
	2592.99	Outer_Full	11.13	/	/	<=13	Pass
	2674.98	Outer_Full	10.58	/	/	<=13	Pass
CP-OFDM 16 QAM	2511	Outer_Full	10.75	/	/	<=13	Pass
	2592.99	Outer_Full	11.25	/	/	<=13	Pass
	2674.98	Outer_Full	10.42	/	/	<=13	Pass
CP-OFDM 64 QAM	2511	Outer_Full	11.13	/	/	<=13	Pass
	2592.99	Outer_Full	11.00	/	/	<=13	Pass
	2674.98	Outer_Full	11.09	/	/	<=13	Pass
CP-OFDM 256 QAM	2511	Outer_Full	11.97	/	/	<=13	Pass
	2592.99	Outer_Full	12.06	/	/	<=13	Pass
	2674.98	Outer_Full	11.60	/	/	<=13	Pass



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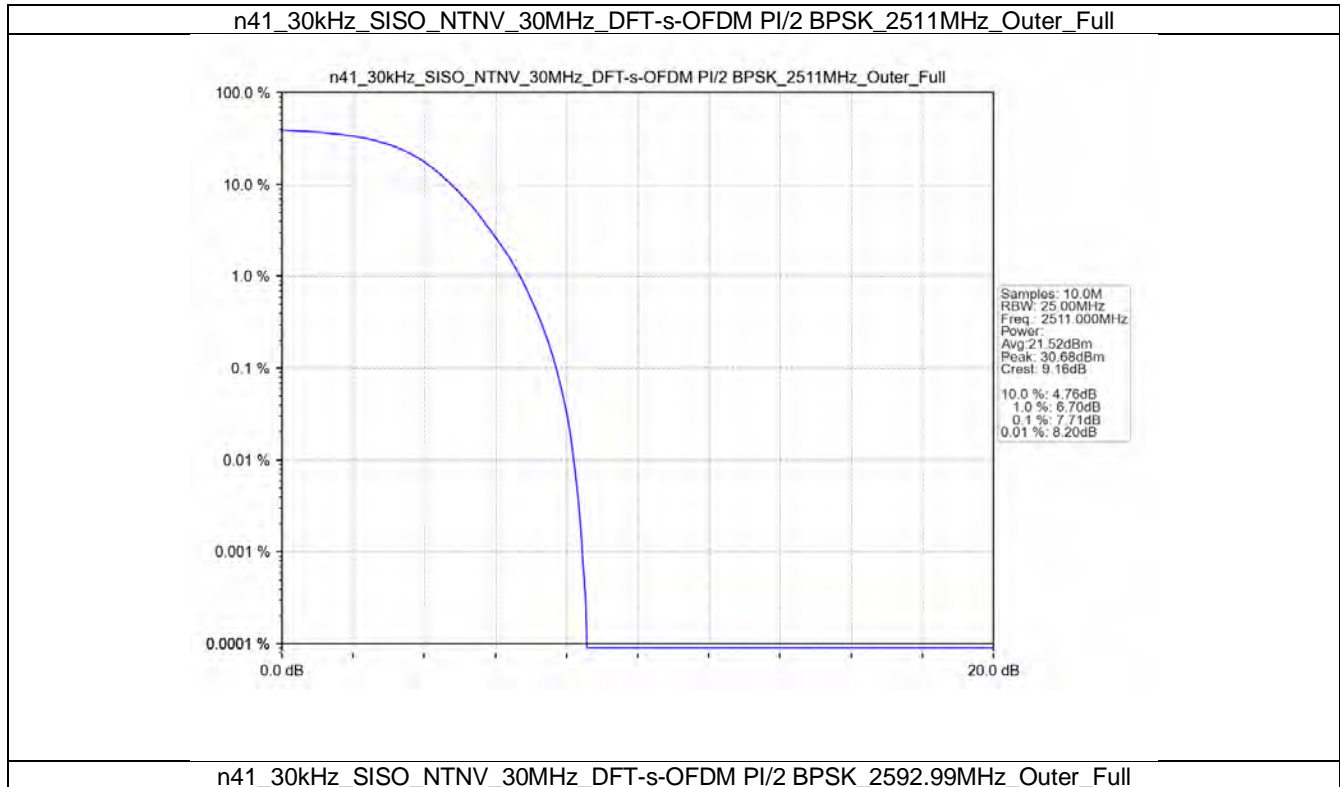
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4.2.2 Test Graph



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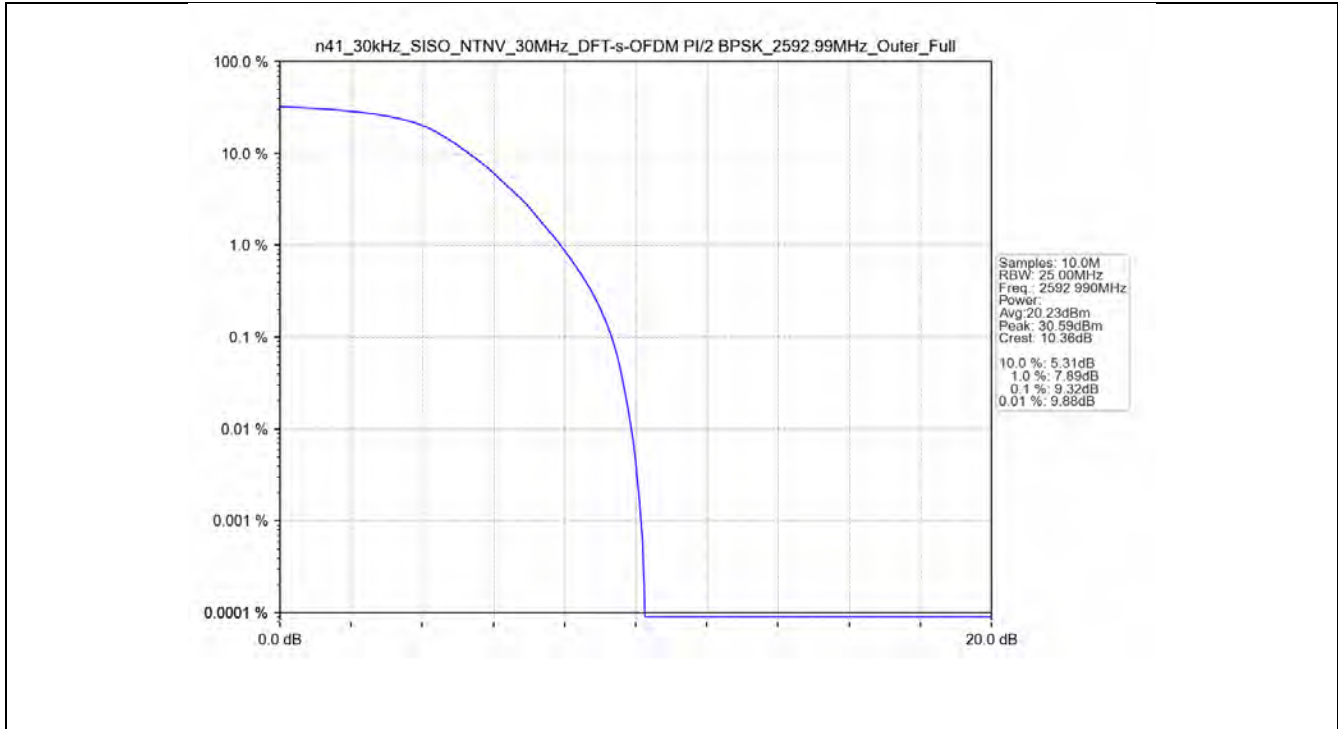


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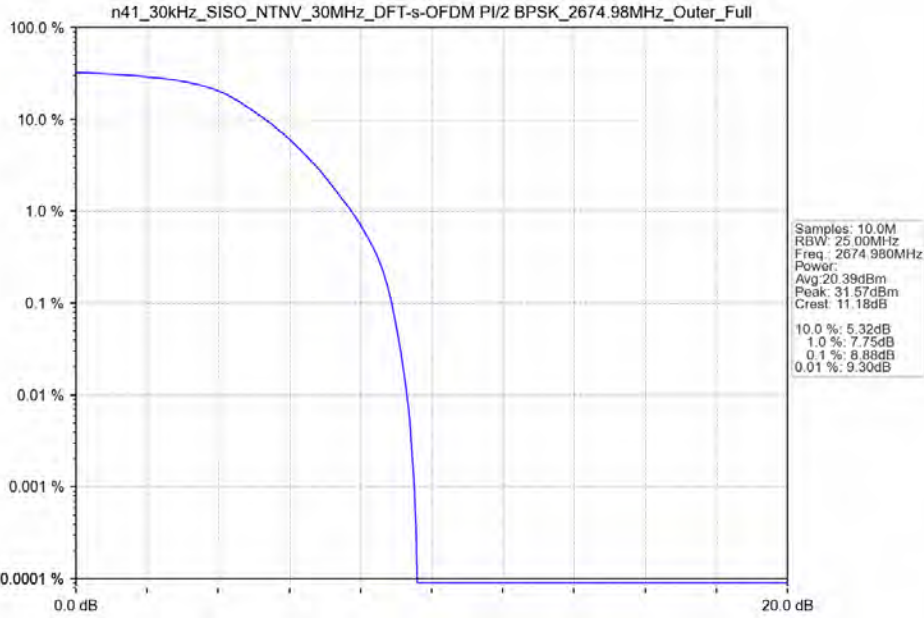
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full



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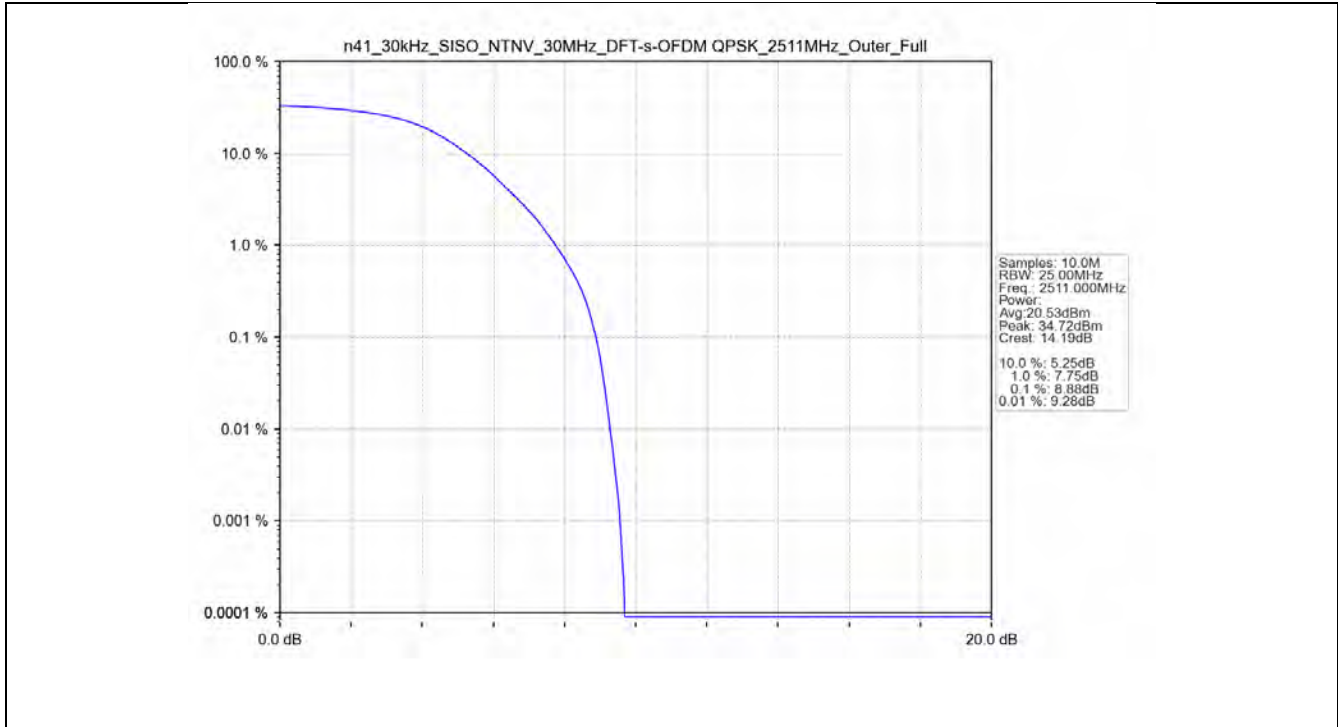


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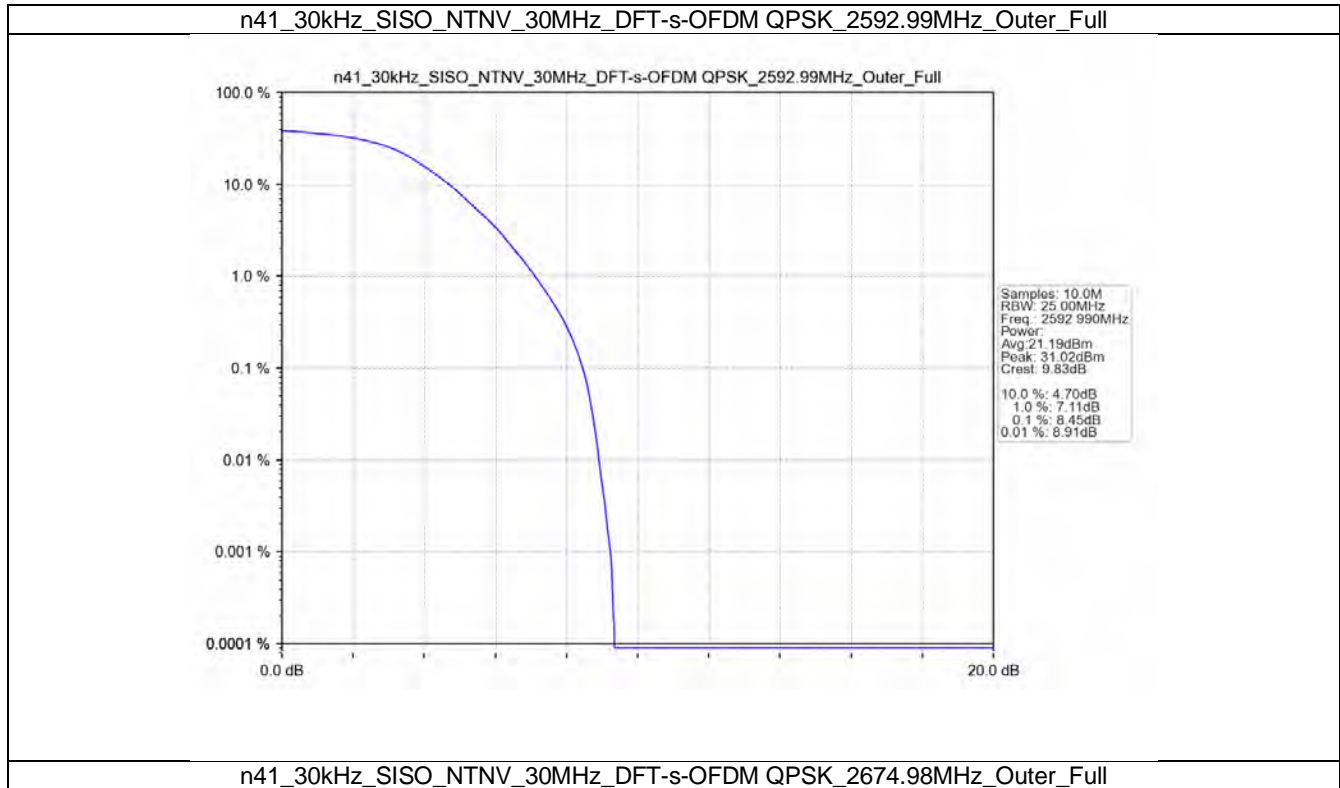


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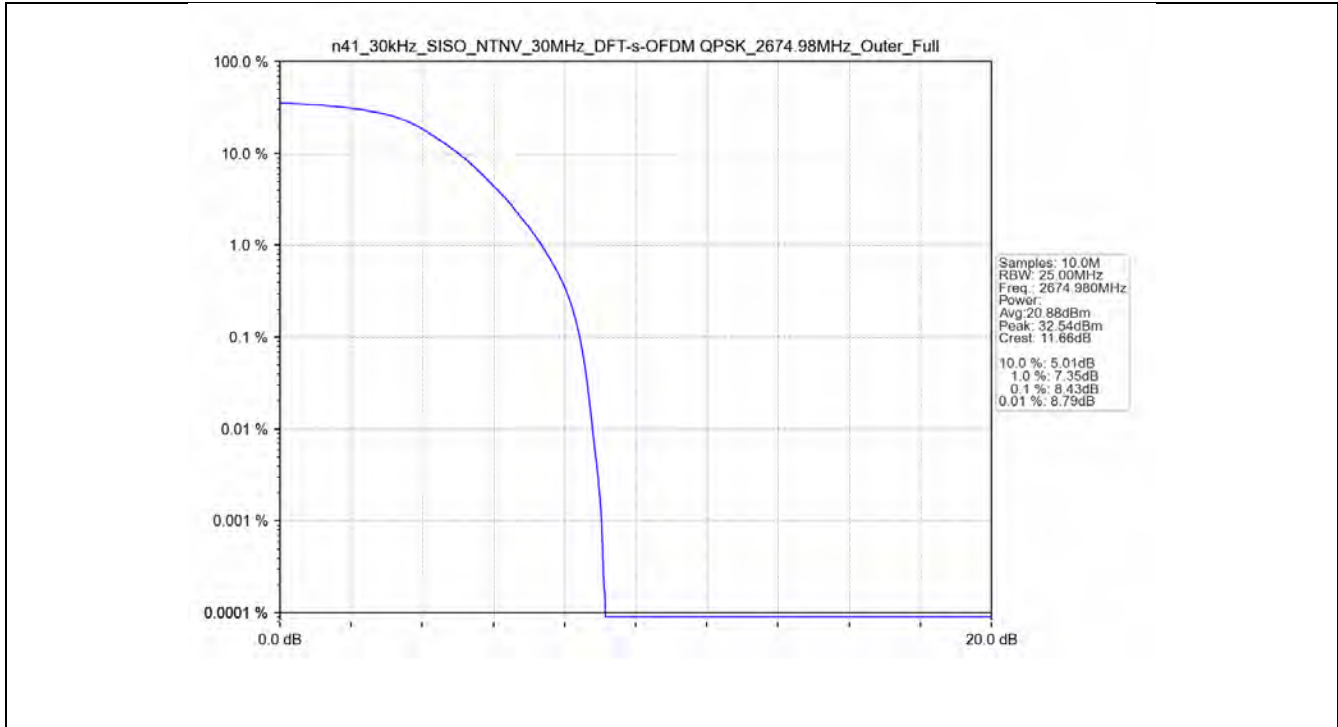


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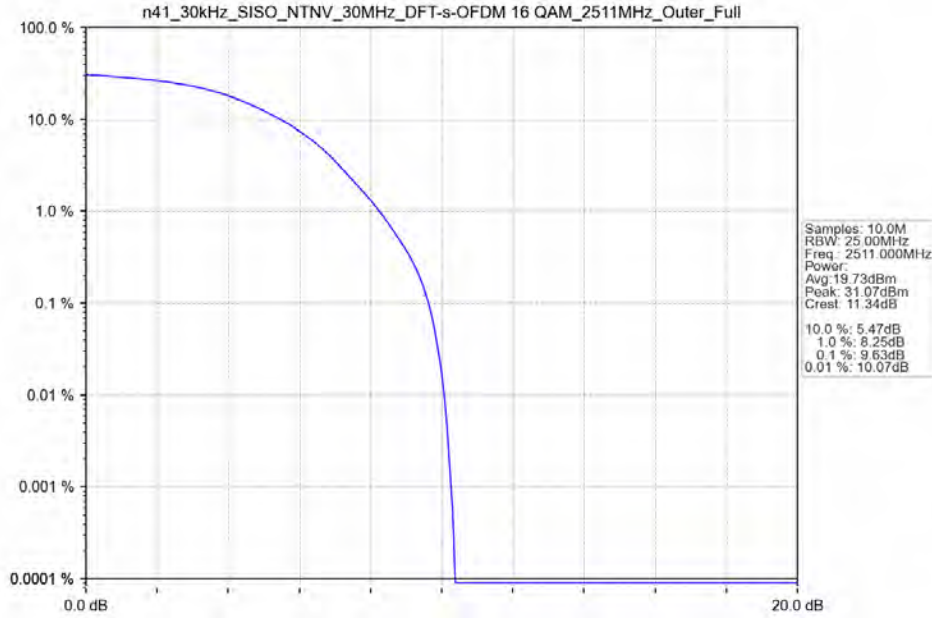
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full



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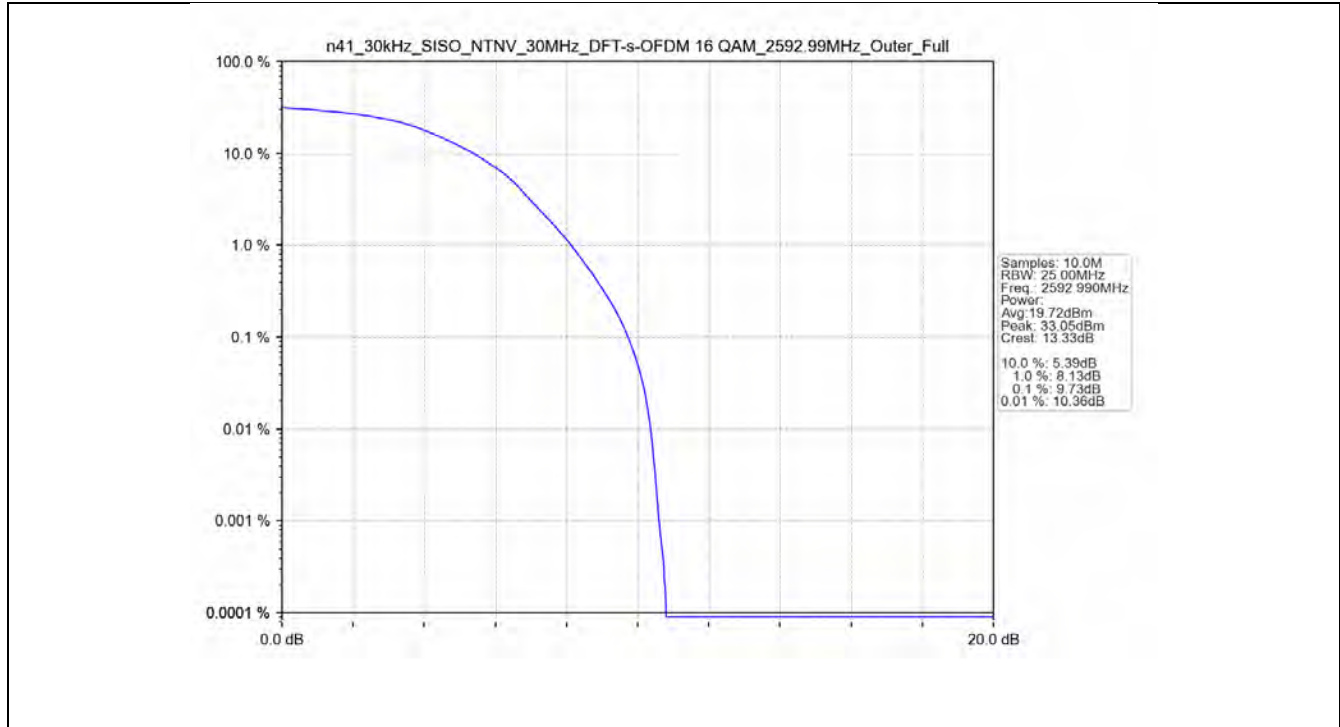


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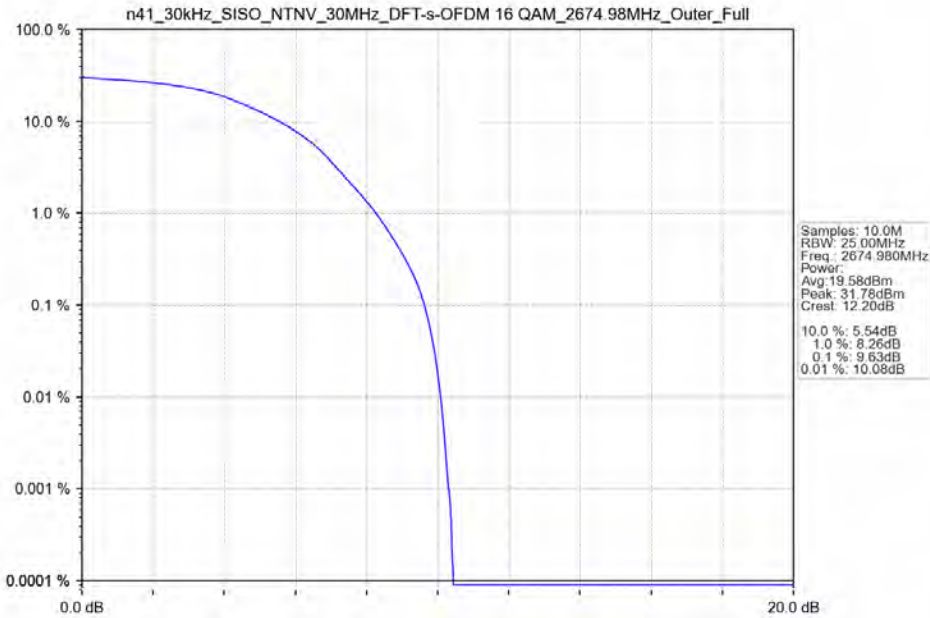
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2511MHz_Outer_Full



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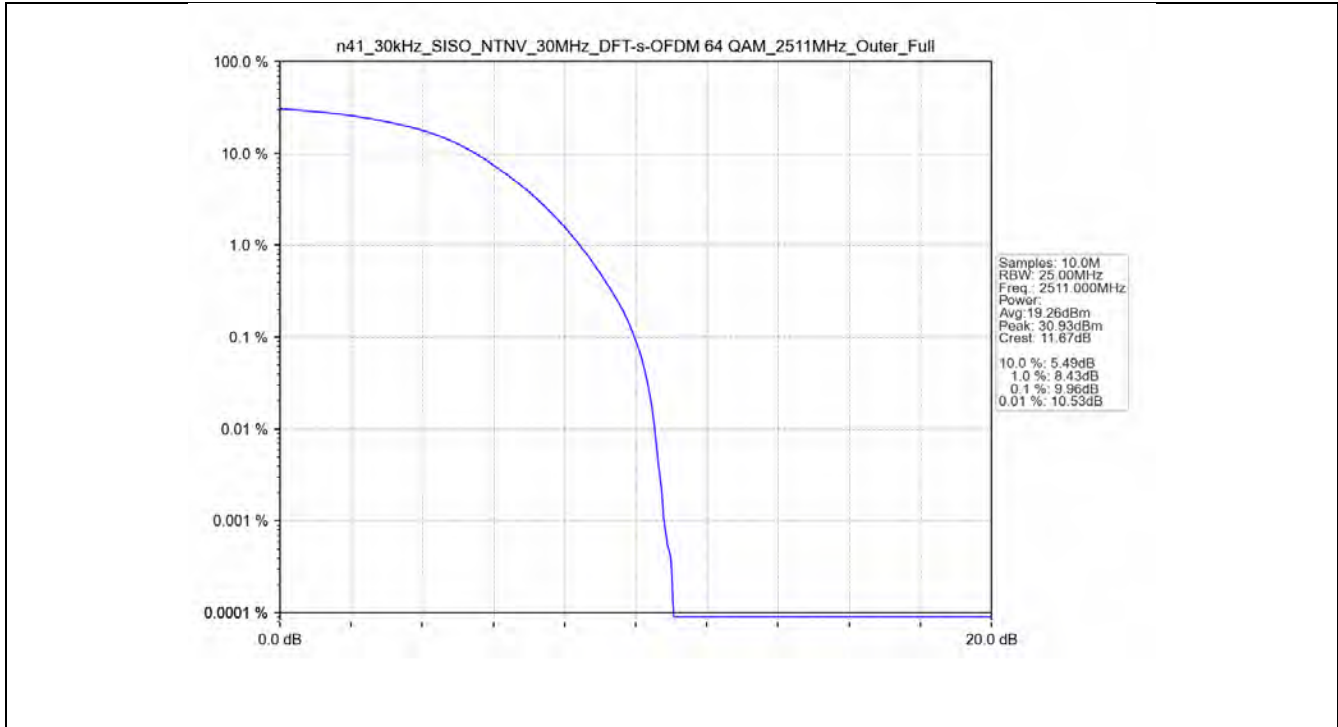


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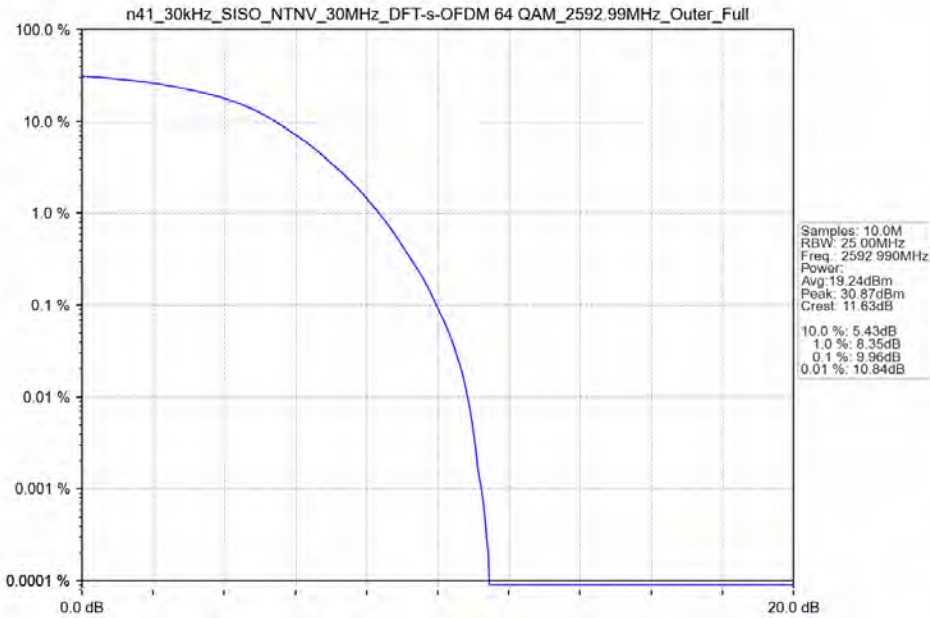
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2674.98MHz_Outer_Full



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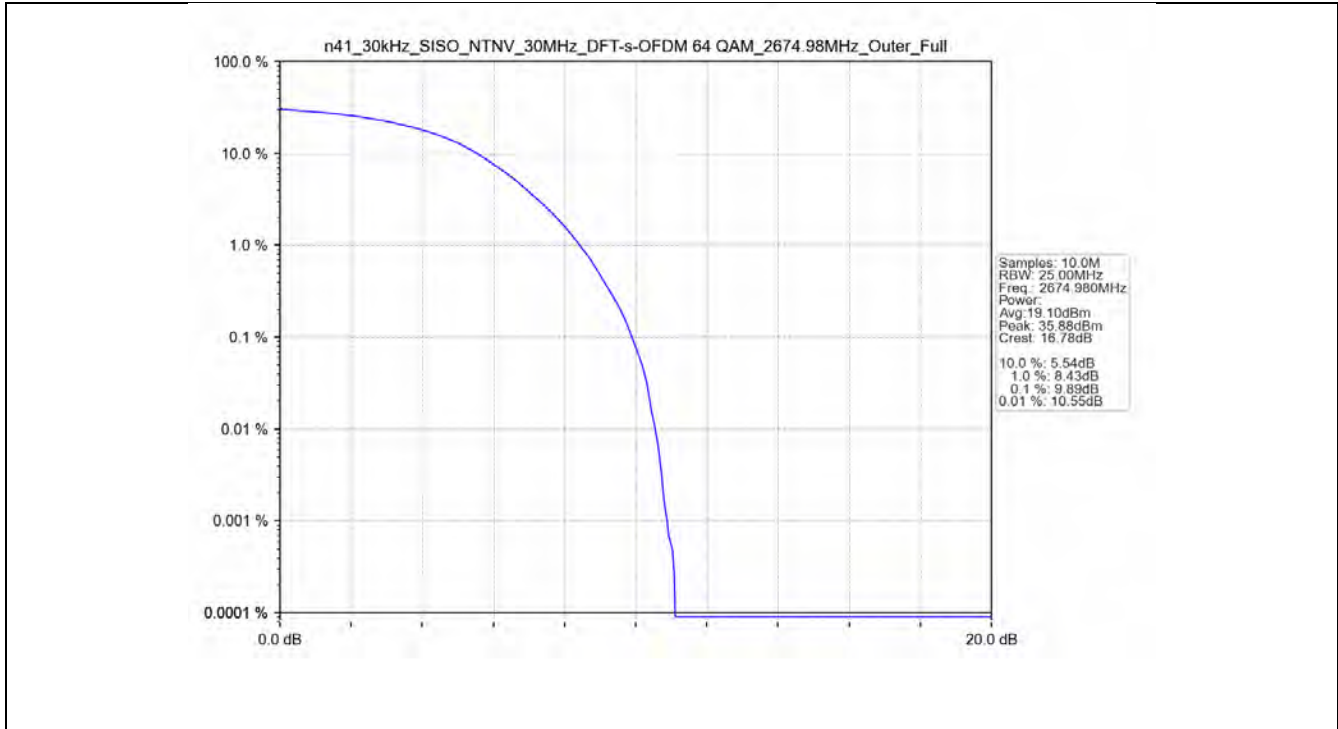


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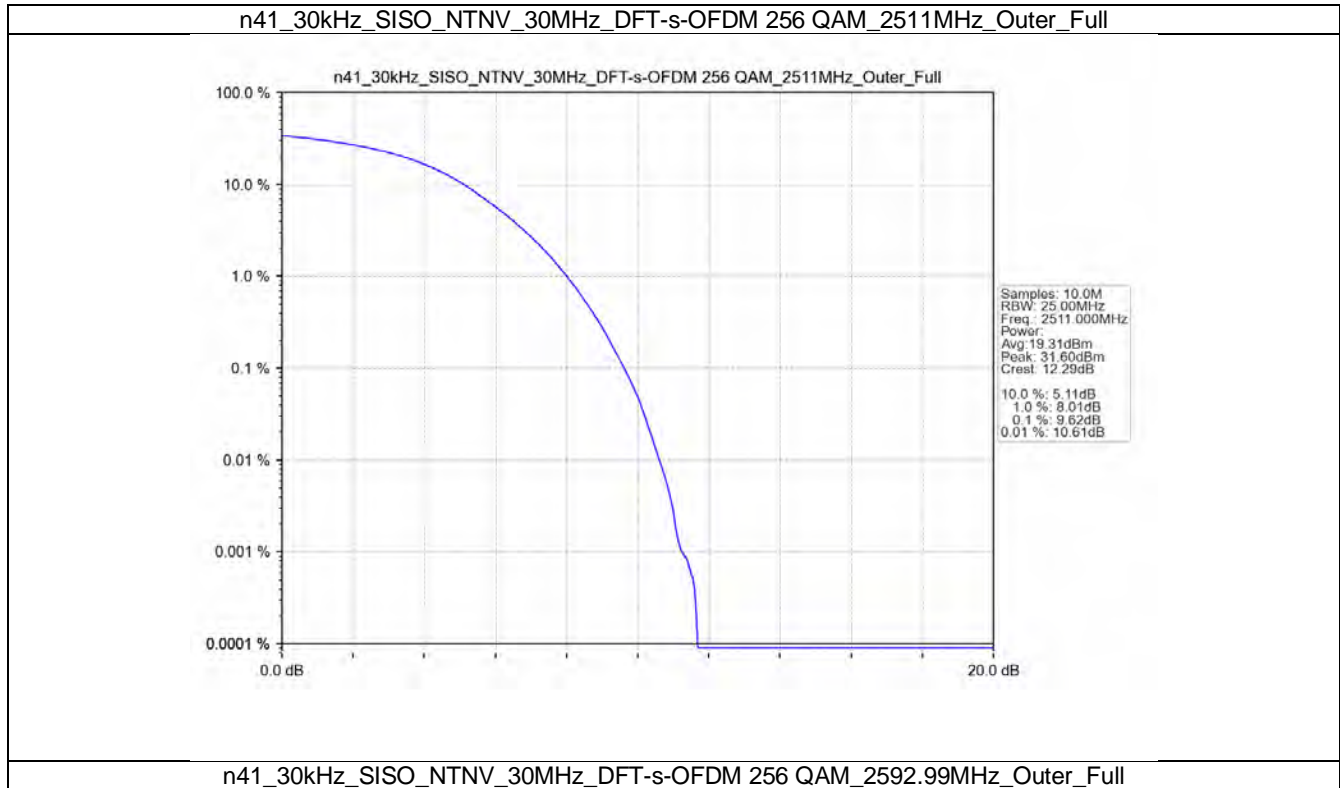


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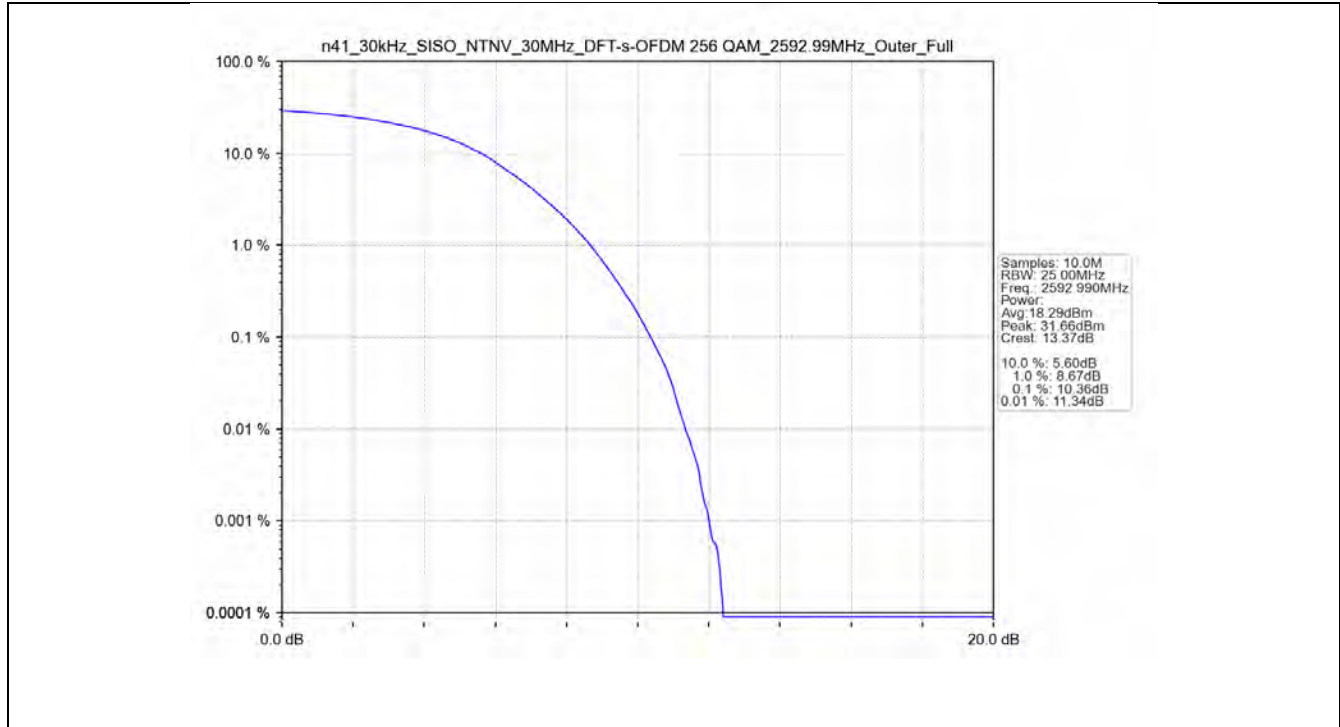


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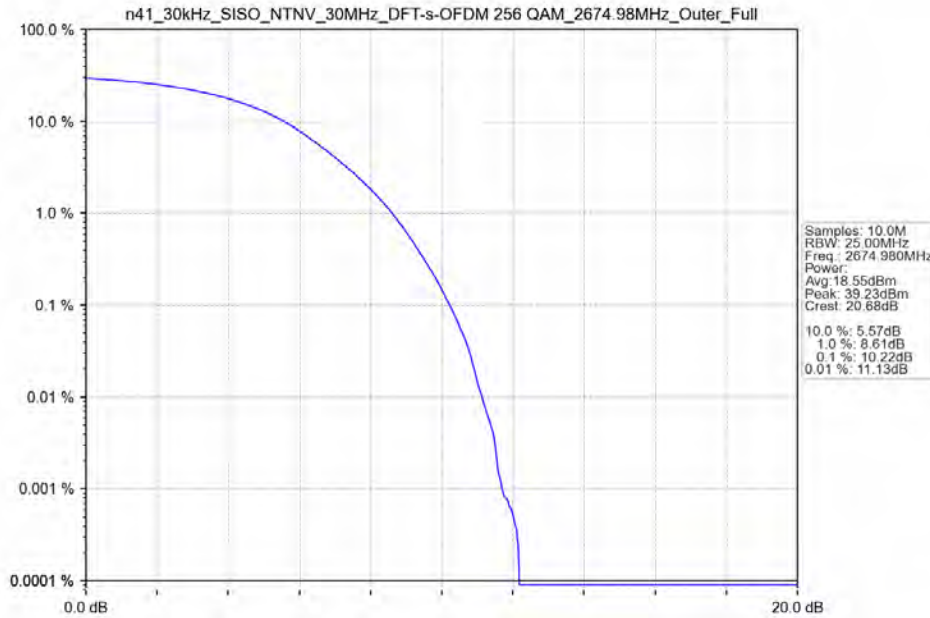
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2511MHz_Outer_Full



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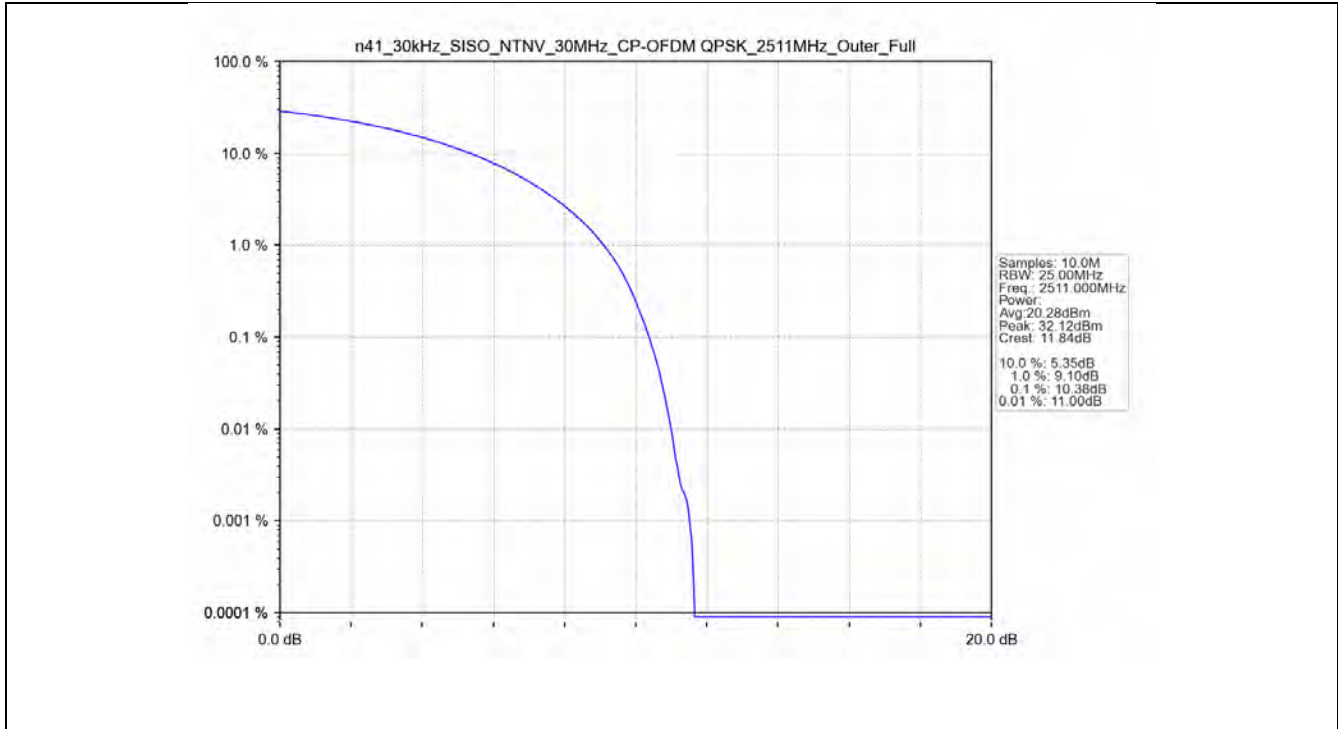


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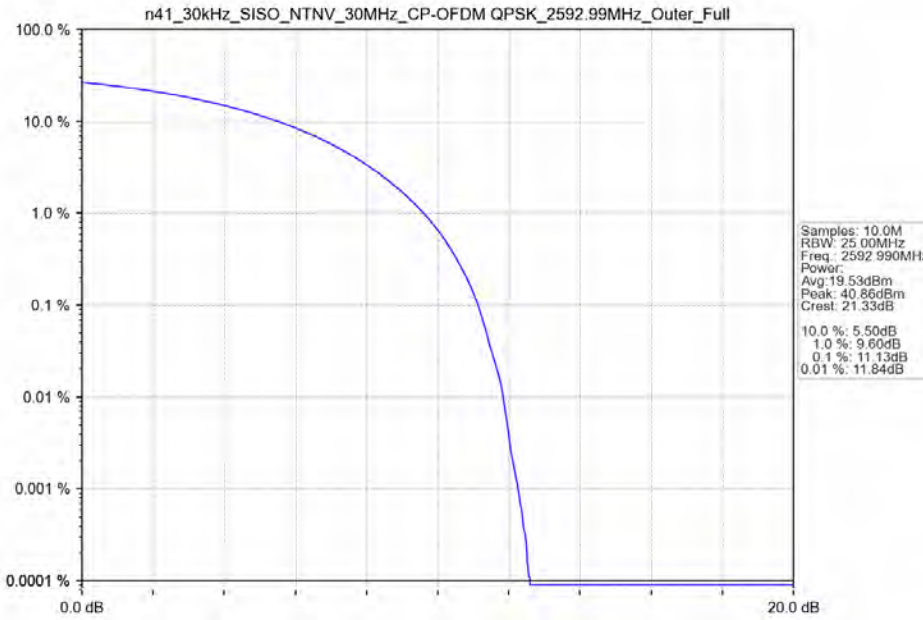
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2674.98MHz_Outer_Full



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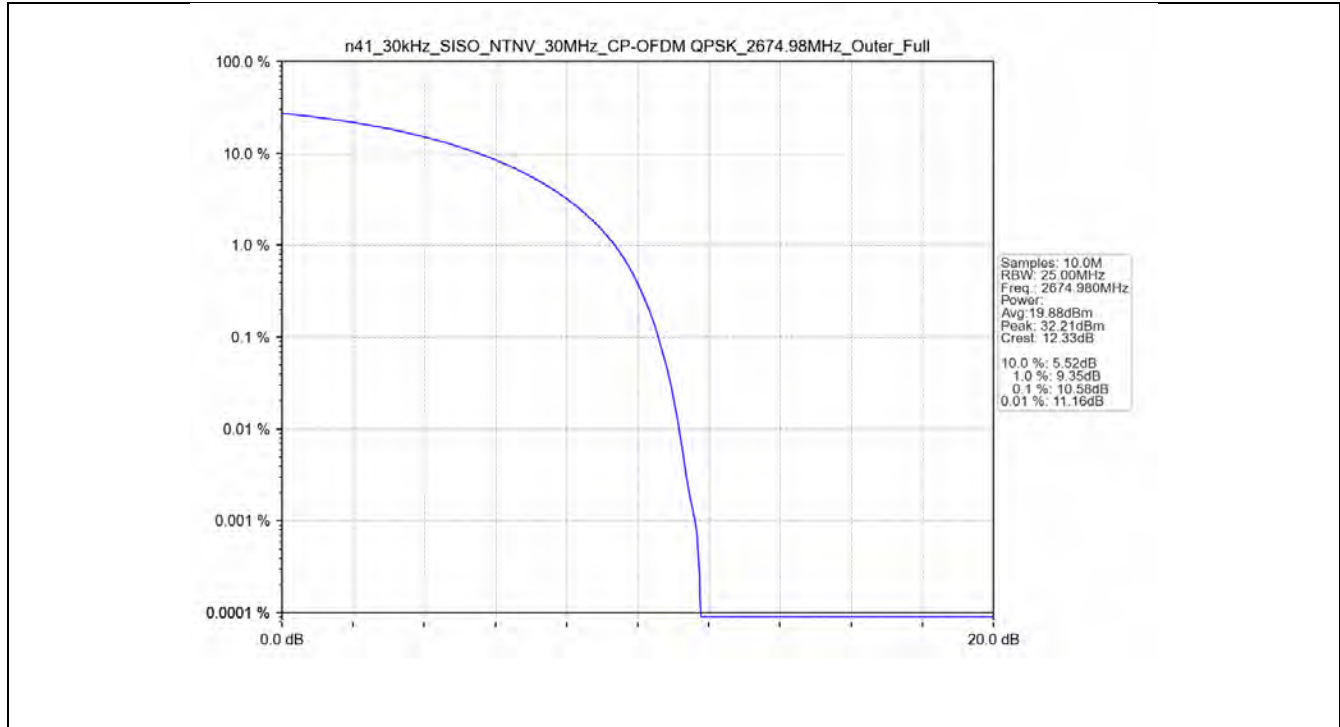


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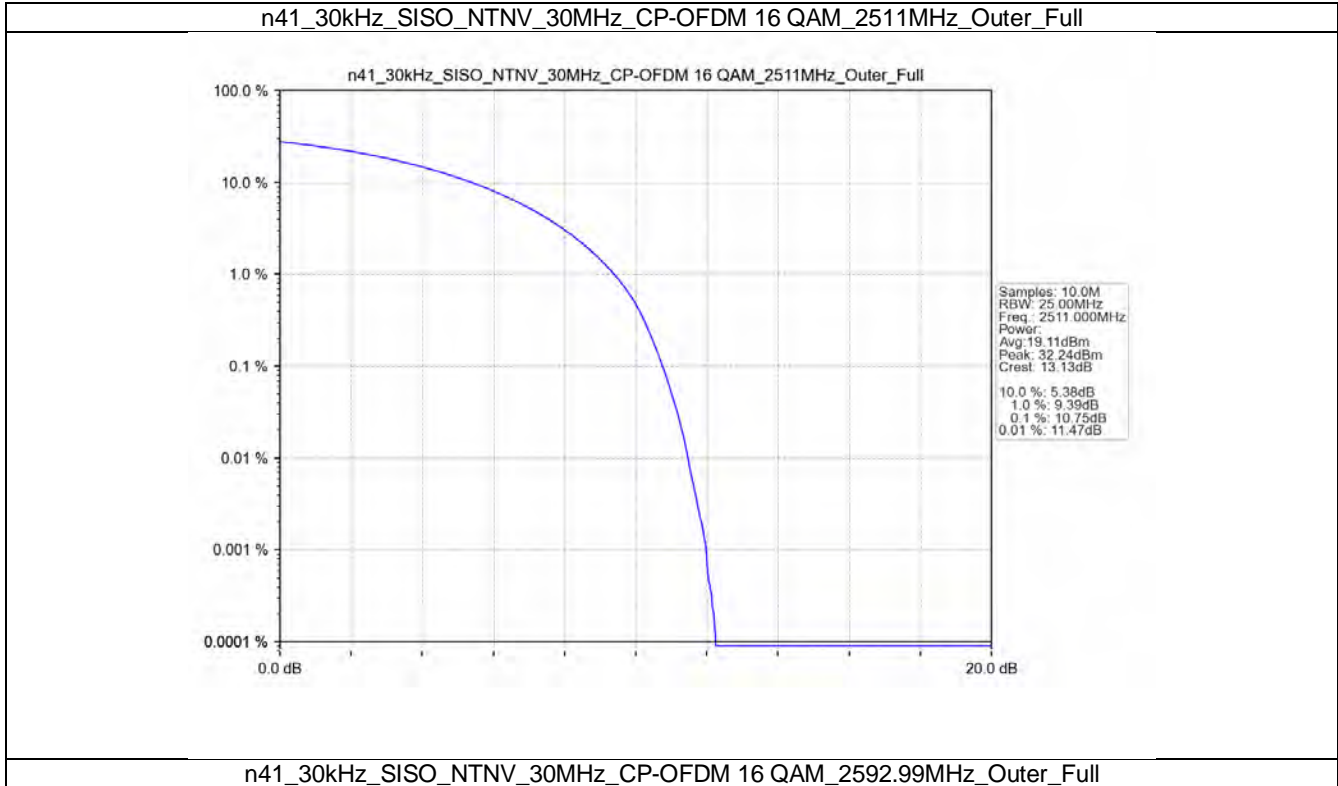


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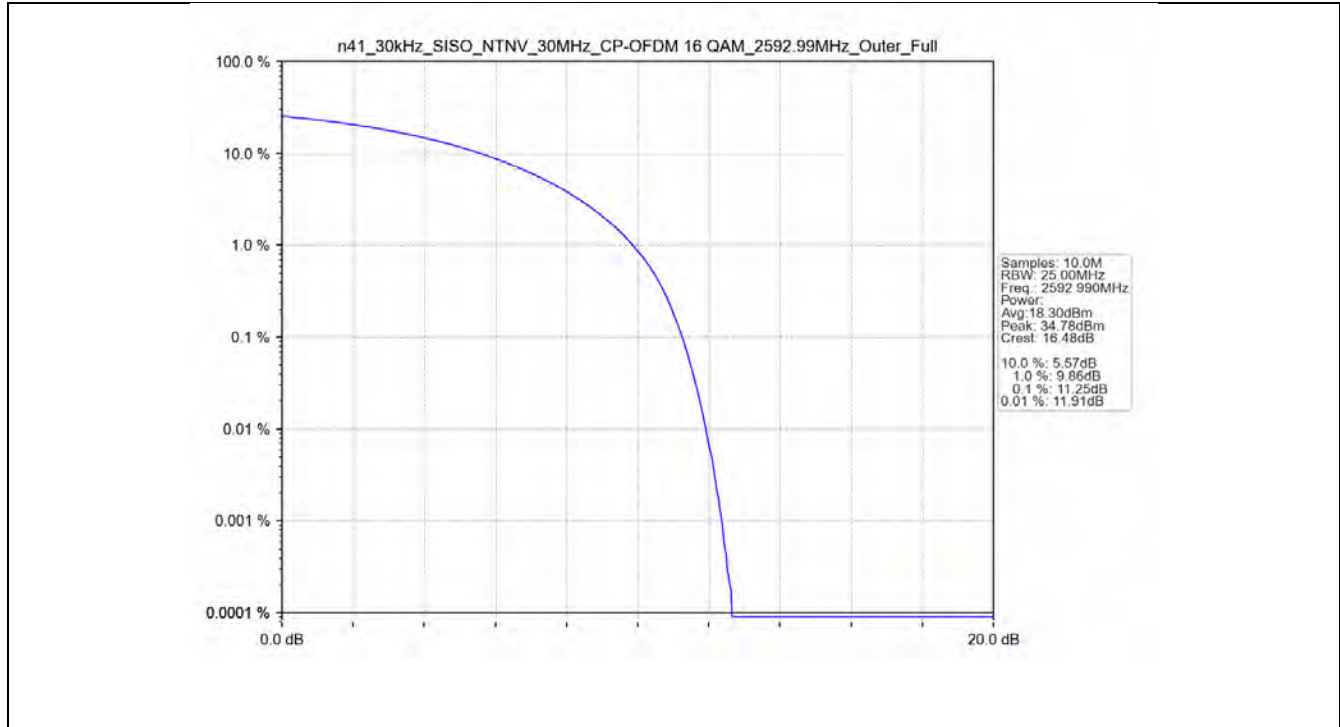


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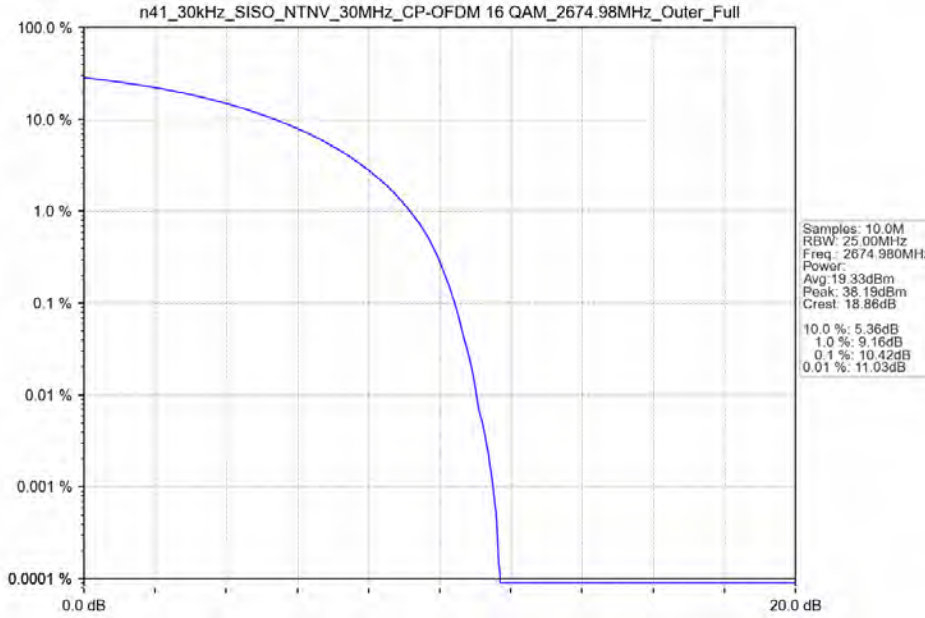
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2511MHz_Outer_Full



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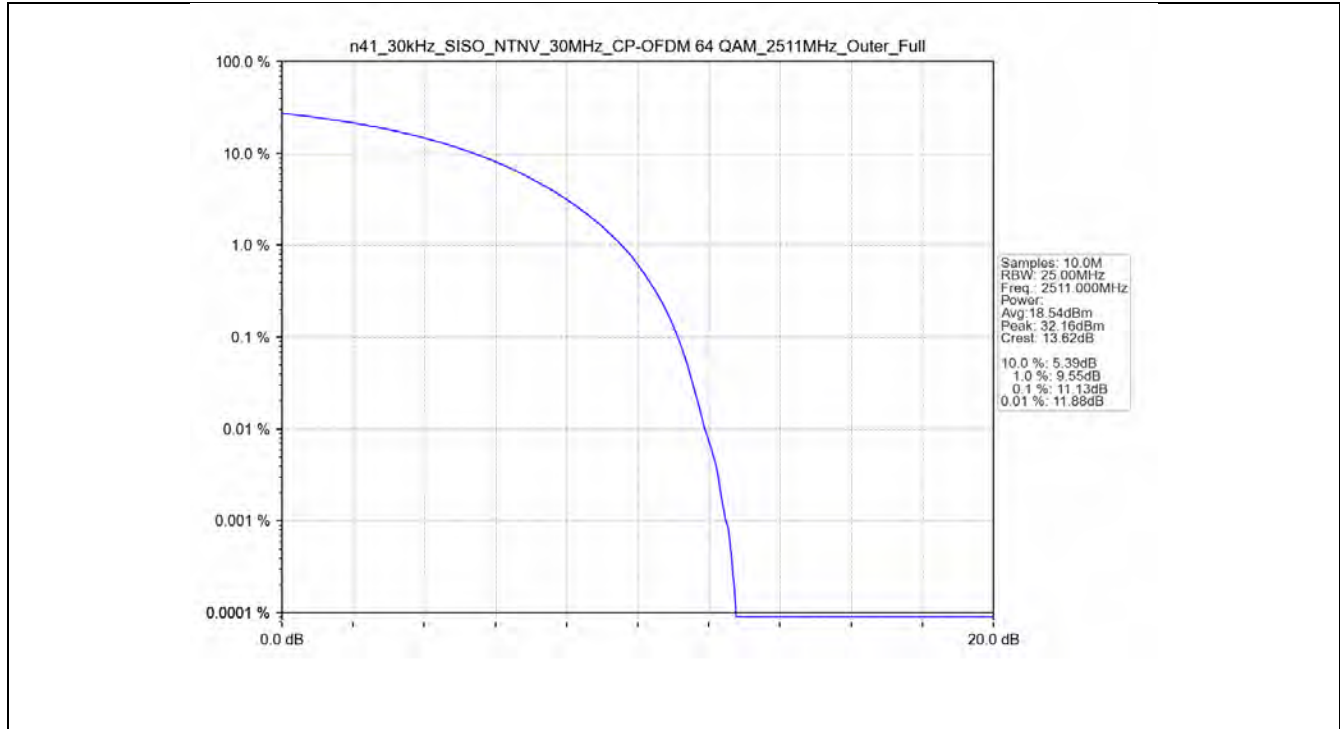


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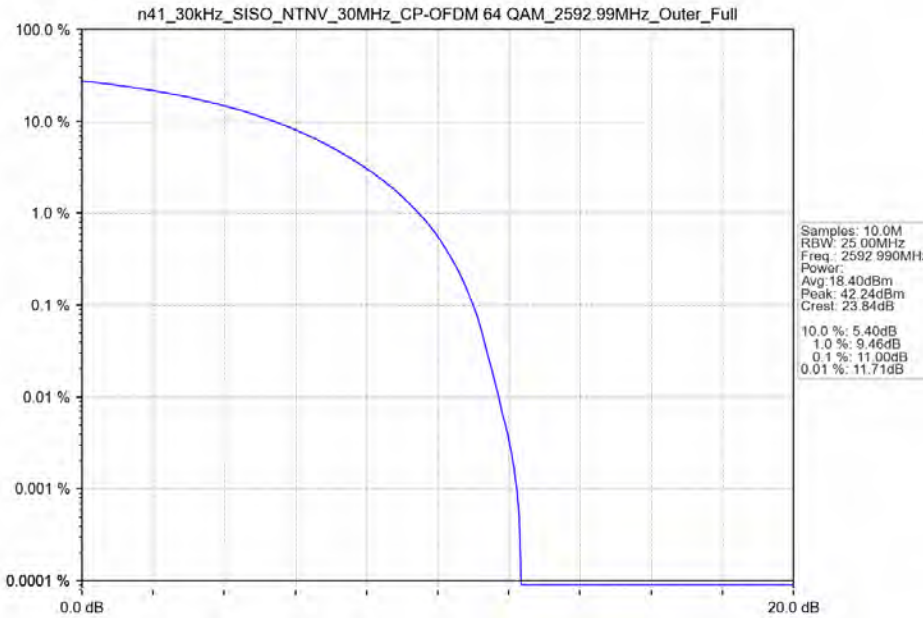
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2674.98MHz_Outer_Full



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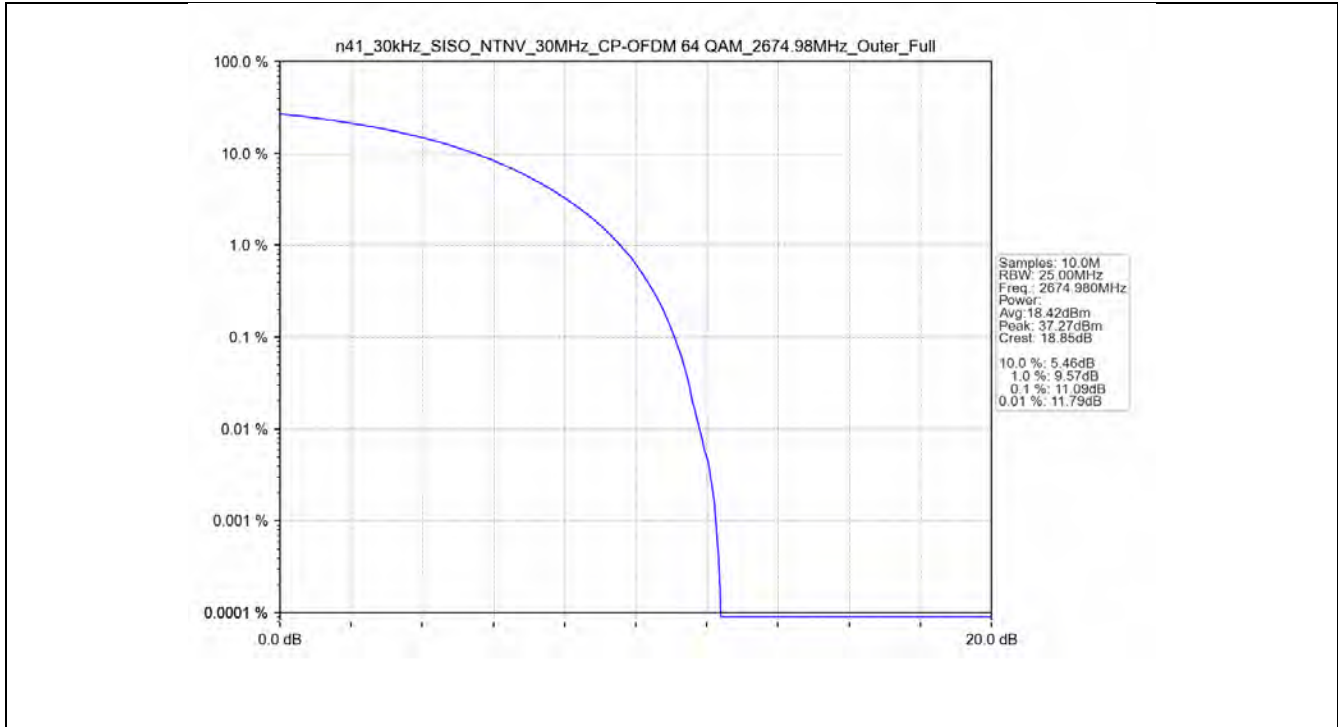


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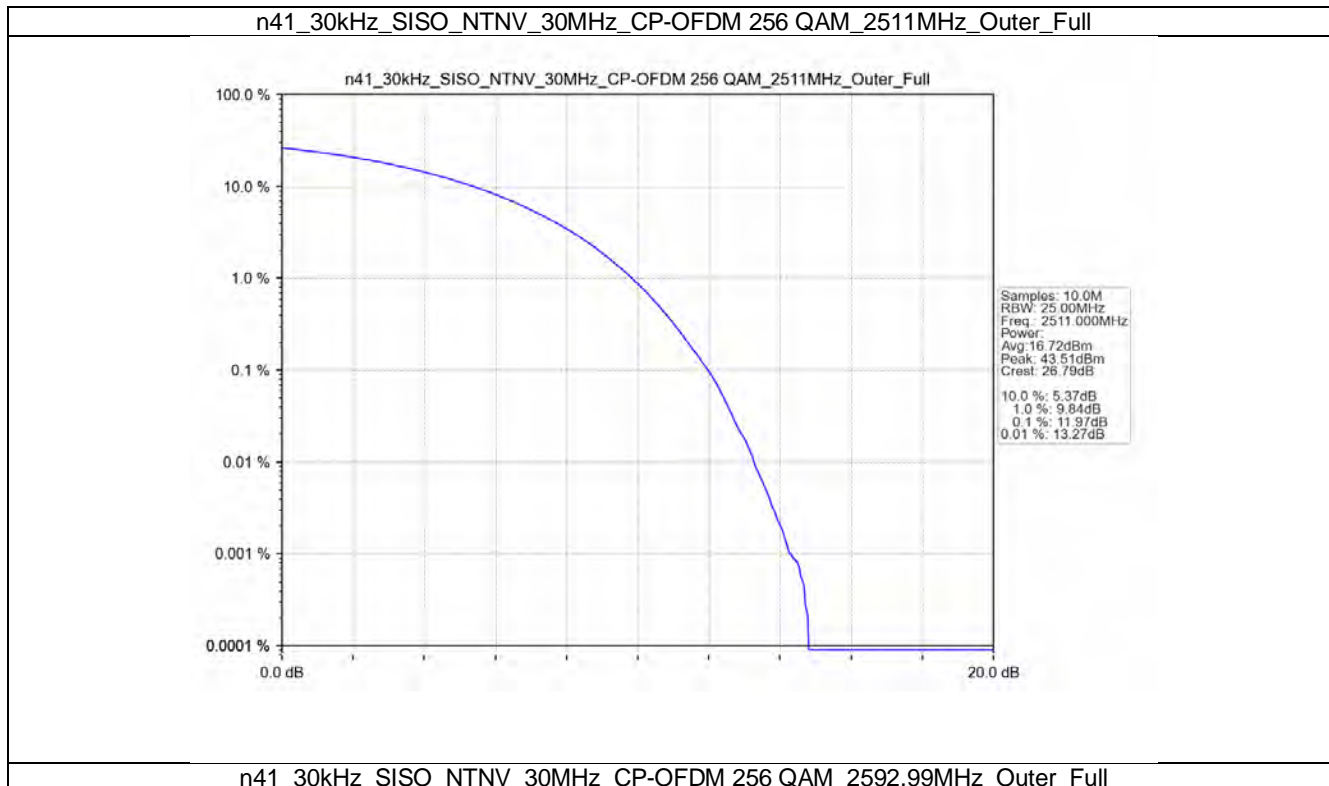
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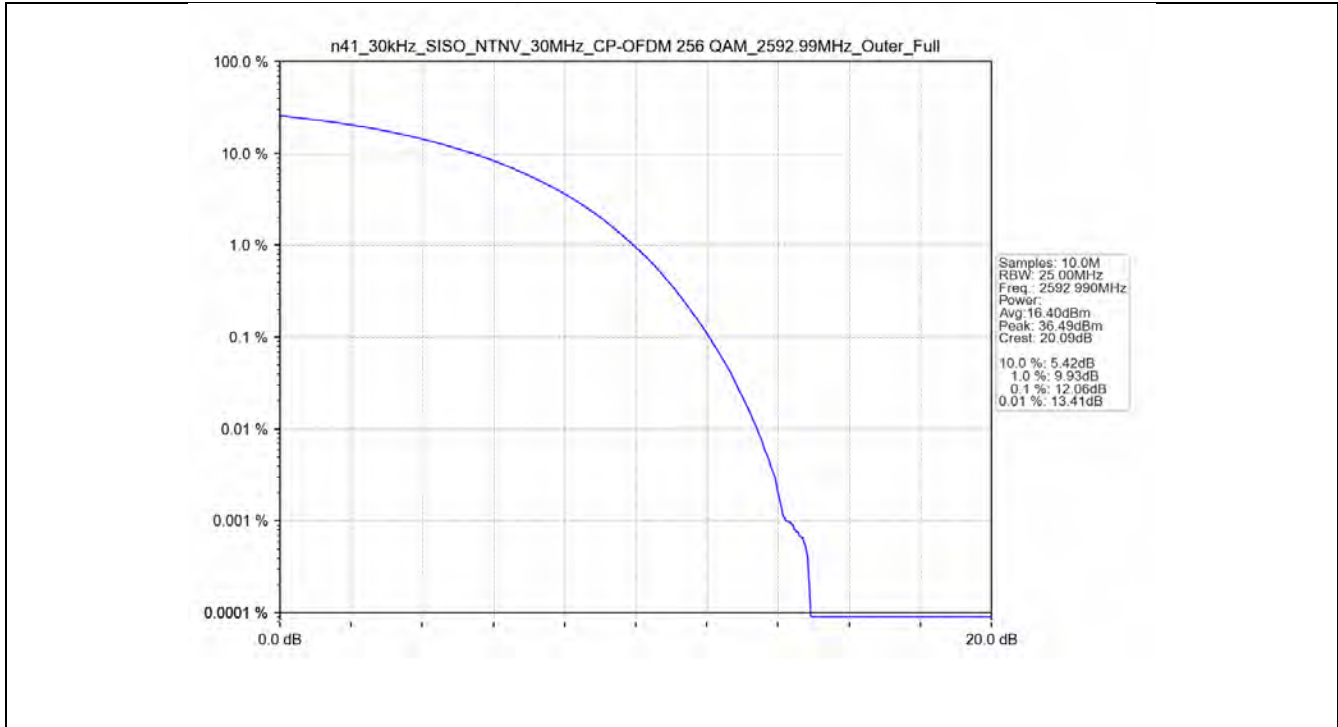


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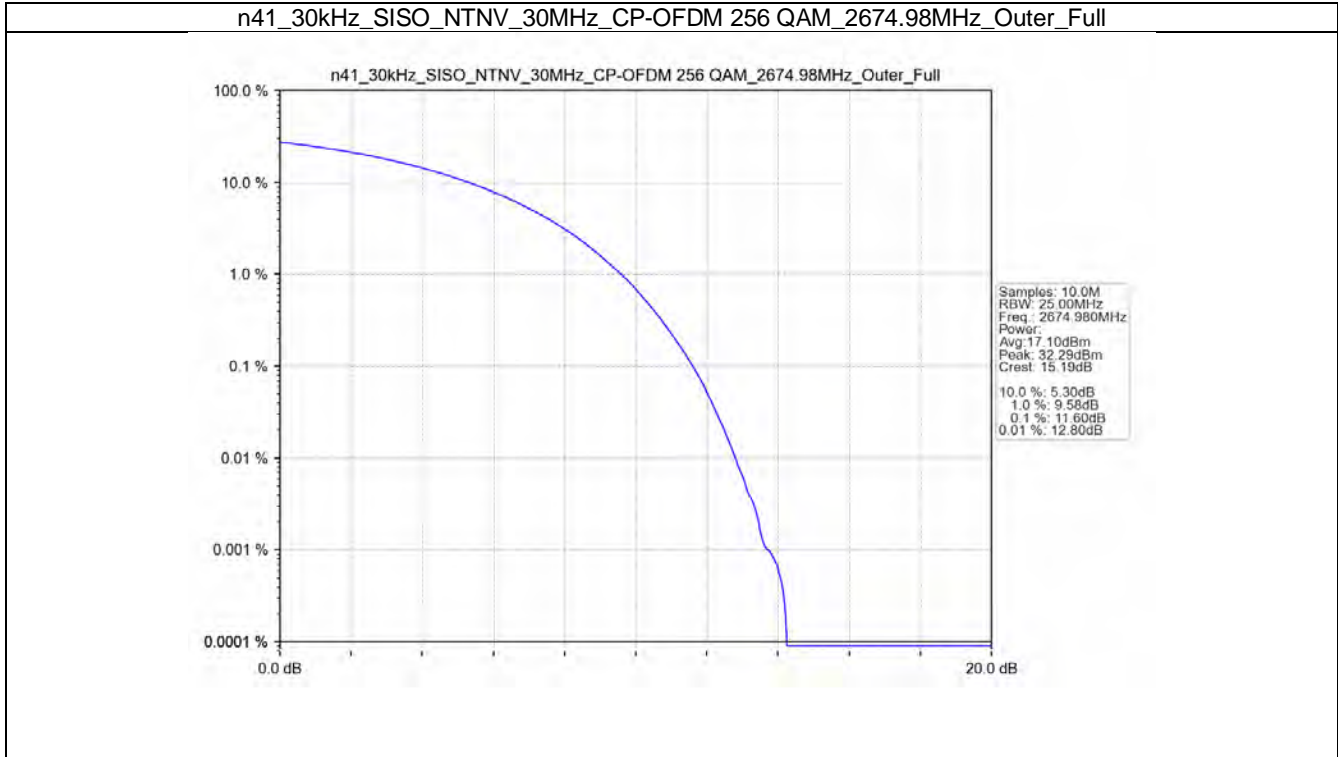


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4.3 30k_SISO_40MHz_NTNV

4.3.1 Test Result

5G NR n41 SCS=30kHz SISO 40MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2516.01	Outer_Full	9.41	/	/	<=13	Pass
	2592.99	Outer_Full	9.16	/	/	<=13	Pass
	2670	Outer_Full	9.56	/	/	<=13	Pass
DFT-s-OFDM QPSK	2516.01	Outer_Full	9.69	/	/	<=13	Pass
	2592.99	Outer_Full	10.54	/	/	<=13	Pass
	2670	Outer_Full	9.45	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	10.22	/	/	<=13	Pass
	2592.99	Outer_Full	10.19	/	/	<=13	Pass
	2670	Outer_Full	10.27	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	10.73	/	/	<=13	Pass
	2592.99	Outer_Full	10.53	/	/	<=13	Pass
	2670	Outer_Full	10.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	10.24	/	/	<=13	Pass
	2592.99	Outer_Full	10.79	/	/	<=13	Pass
	2670	Outer_Full	10.82	/	/	<=13	Pass
CP-OFDM QPSK	2516.01	Outer_Full	11.51	/	/	<=13	Pass
	2592.99	Outer_Full	11.56	/	/	<=13	Pass
	2670	Outer_Full	10.91	/	/	<=13	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	11.11	/	/	<=13	Pass
	2592.99	Outer_Full	10.97	/	/	<=13	Pass
	2670	Outer_Full	11.35	/	/	<=13	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	11.51	/	/	<=13	Pass
	2592.99	Outer_Full	11.58	/	/	<=13	Pass
	2670	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	11.85	/	/	<=13	Pass
	2592.99	Outer_Full	12.30	/	/	<=13	Pass
	2670	Outer_Full	11.66	/	/	<=13	Pass



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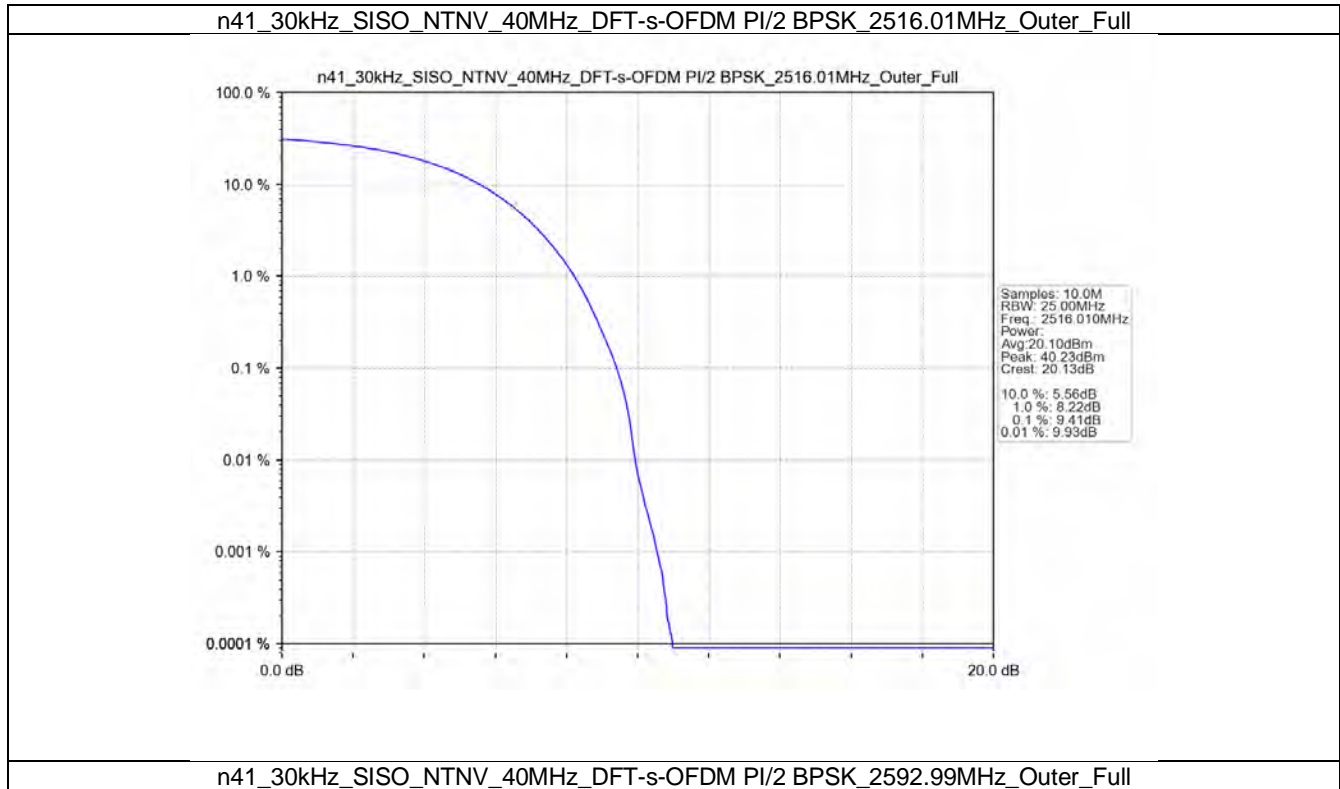
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4.3.2 Test Graph



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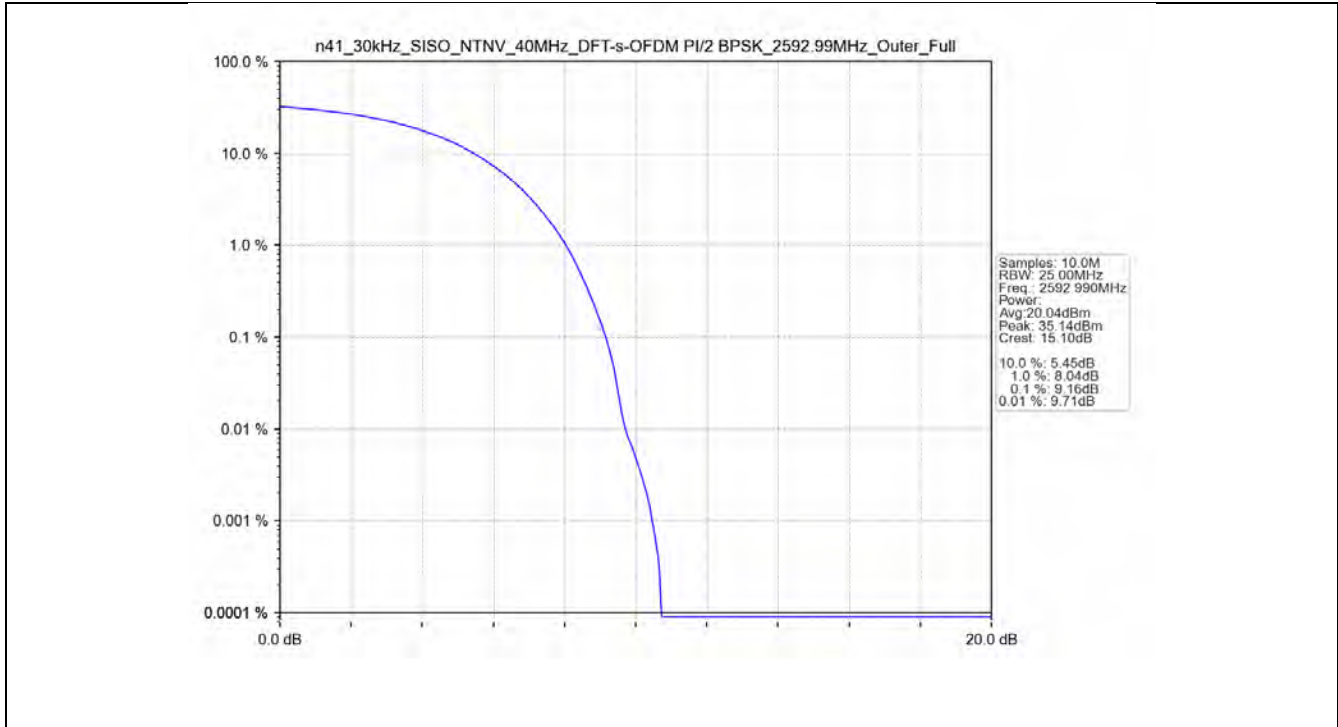


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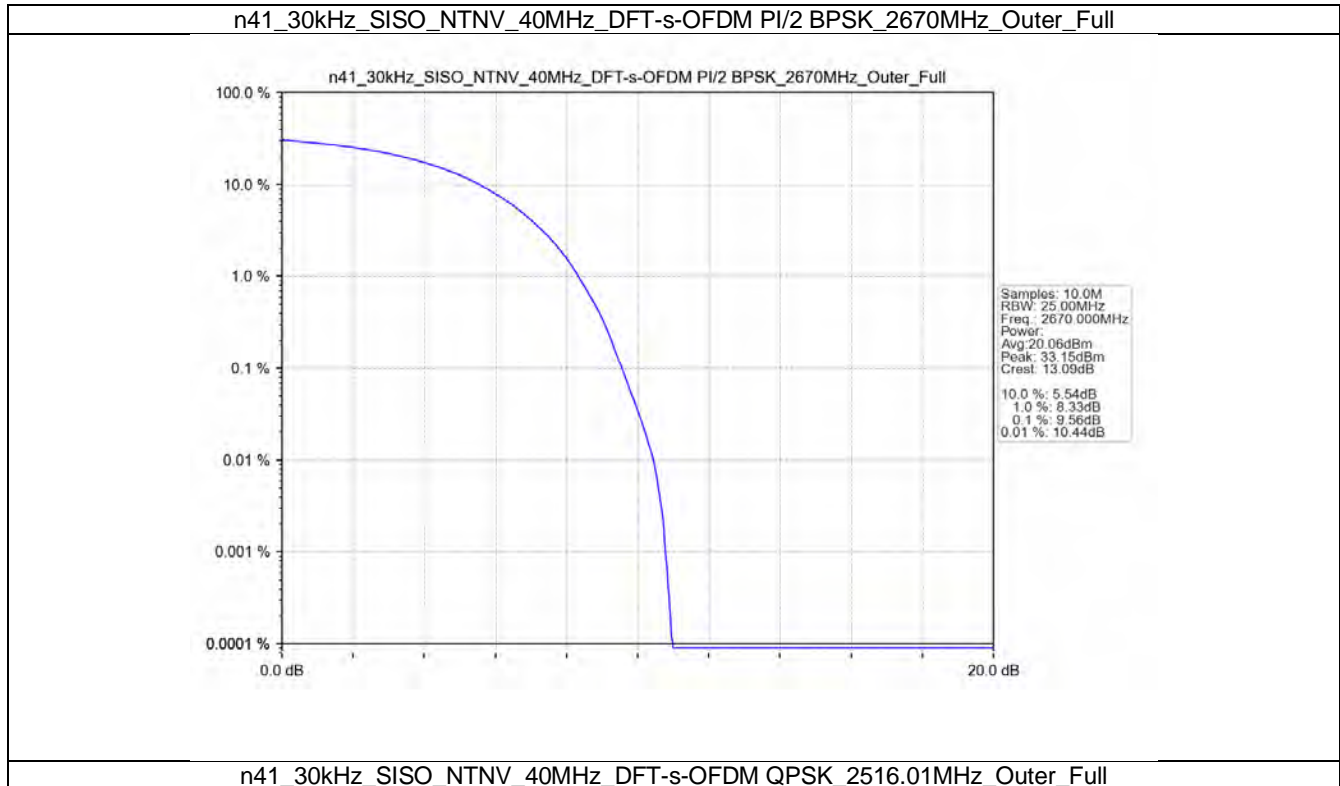


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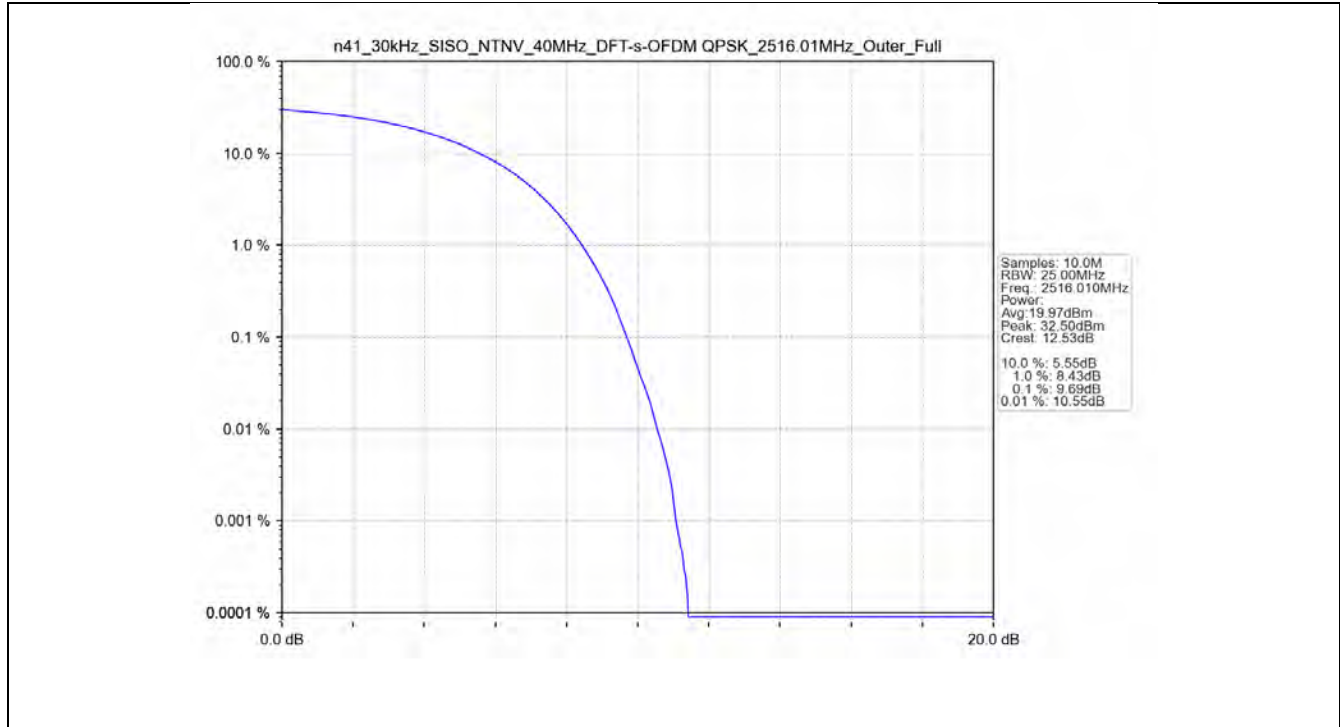


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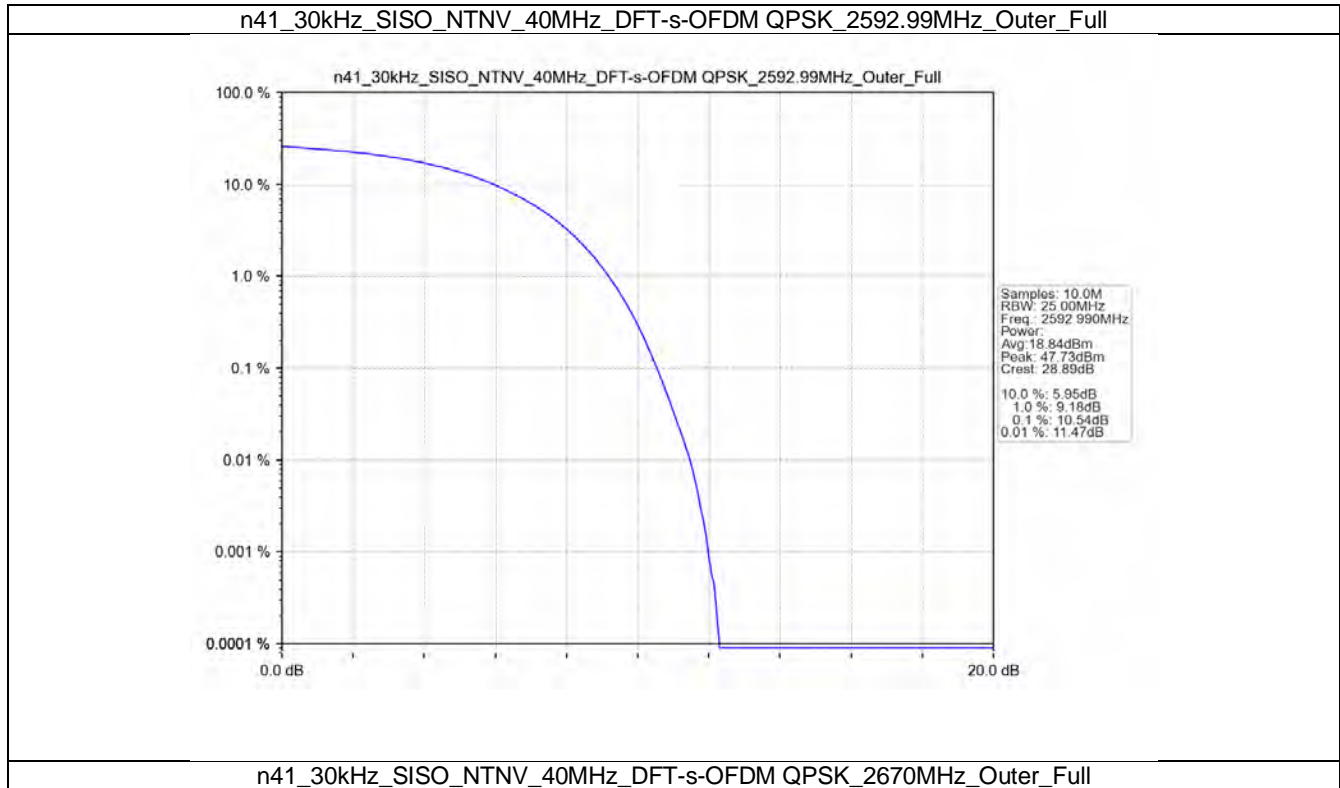


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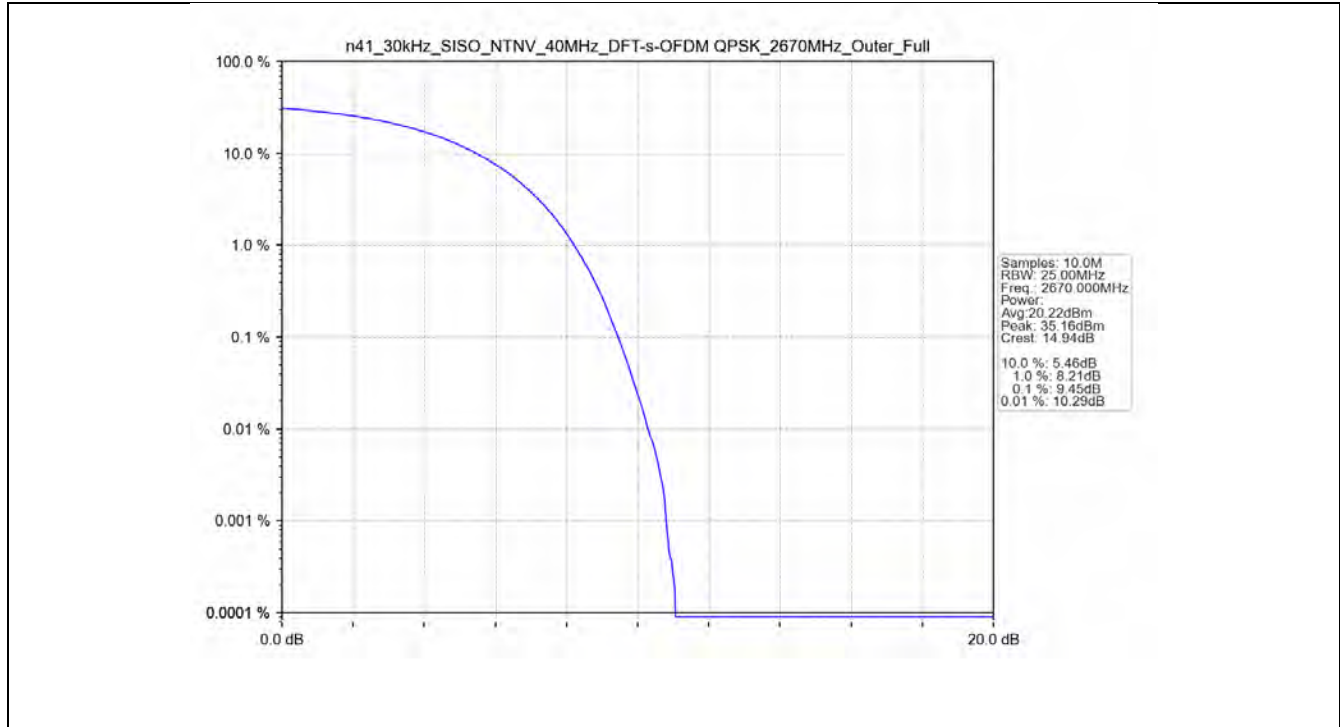


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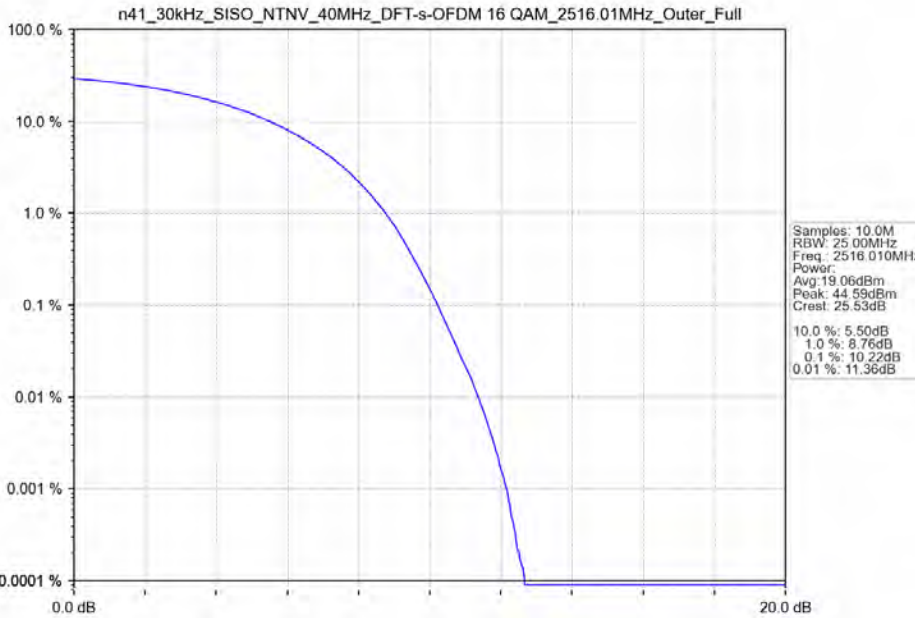
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2516.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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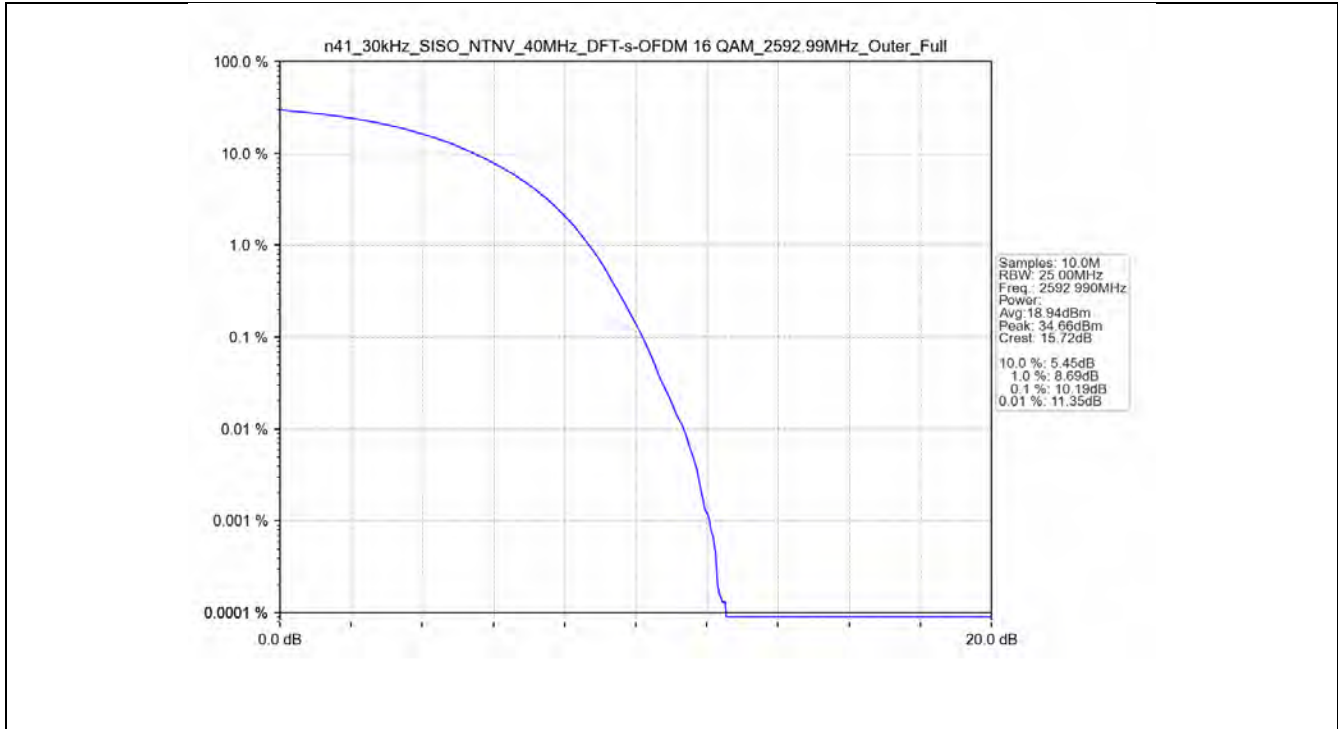


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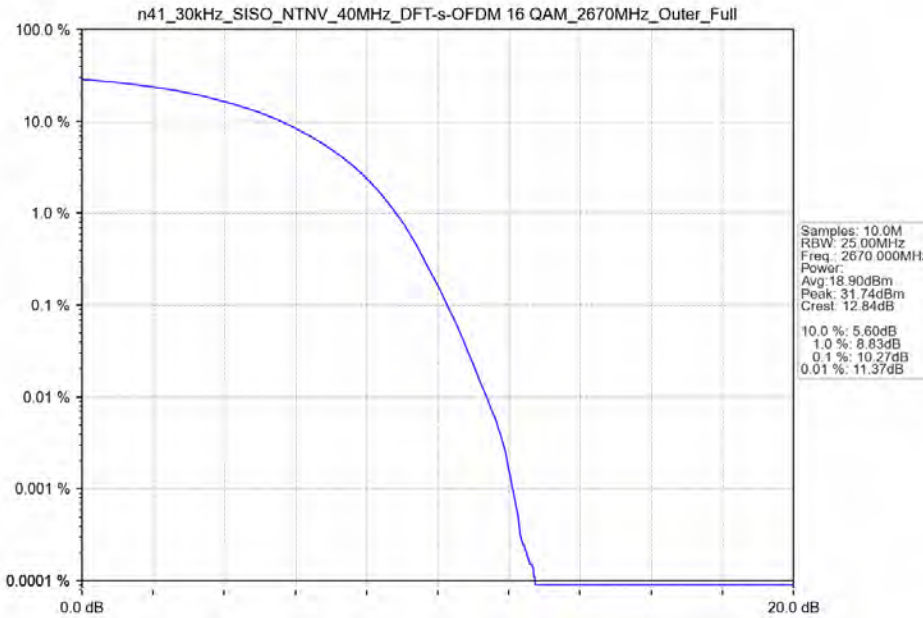
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2670MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2516.01MHz_Outer_Full



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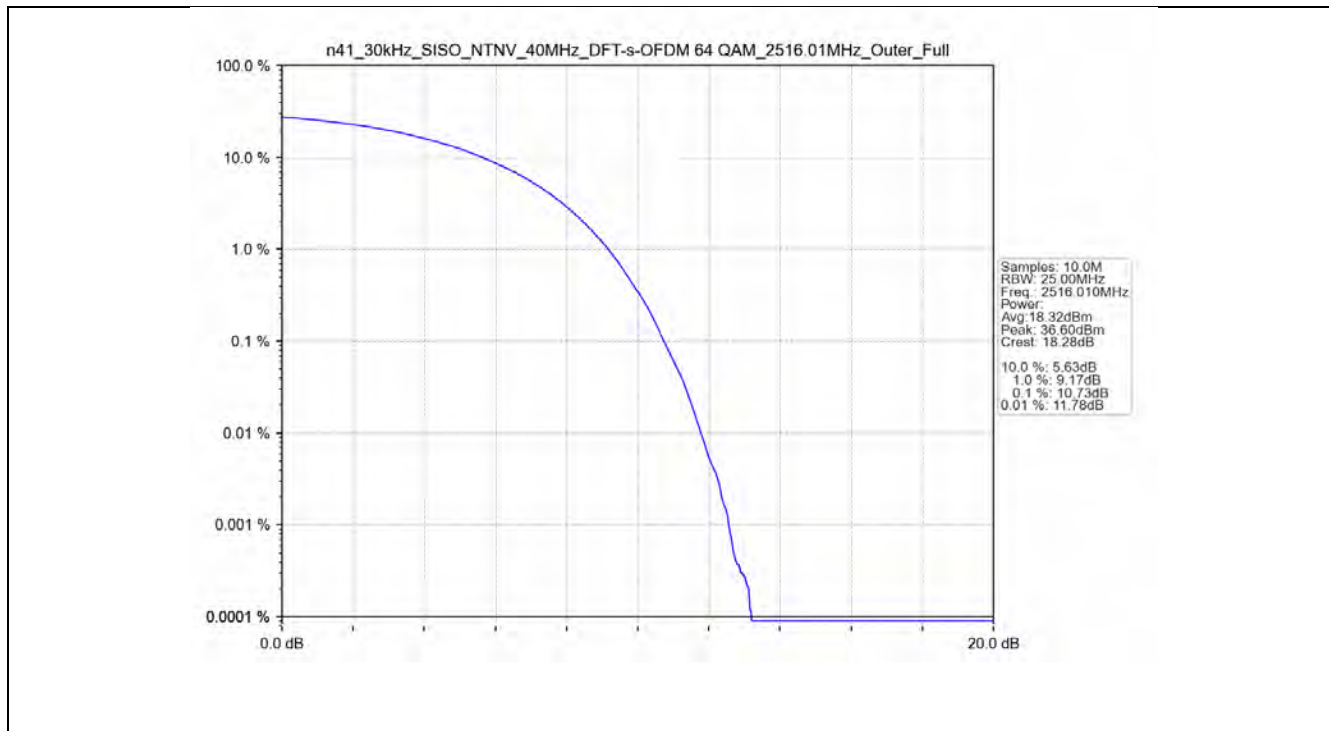
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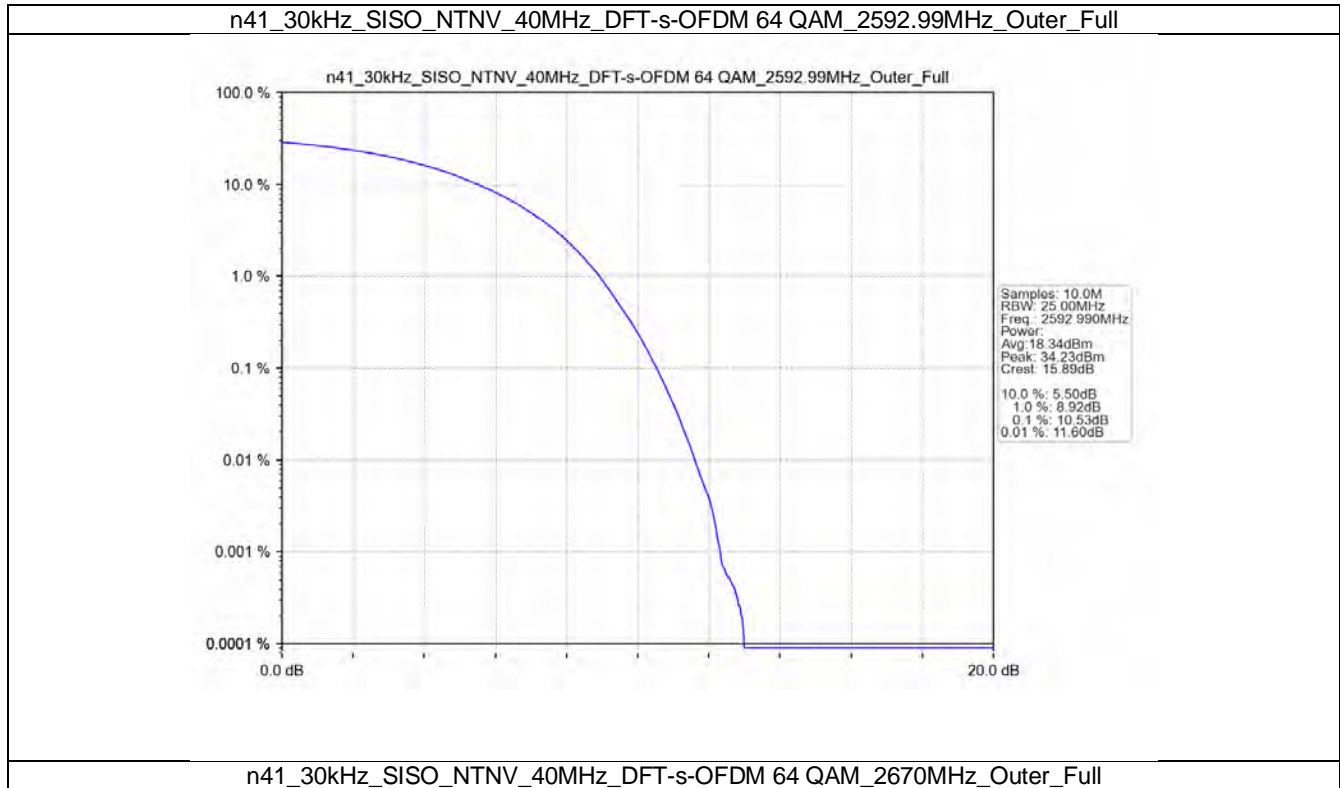


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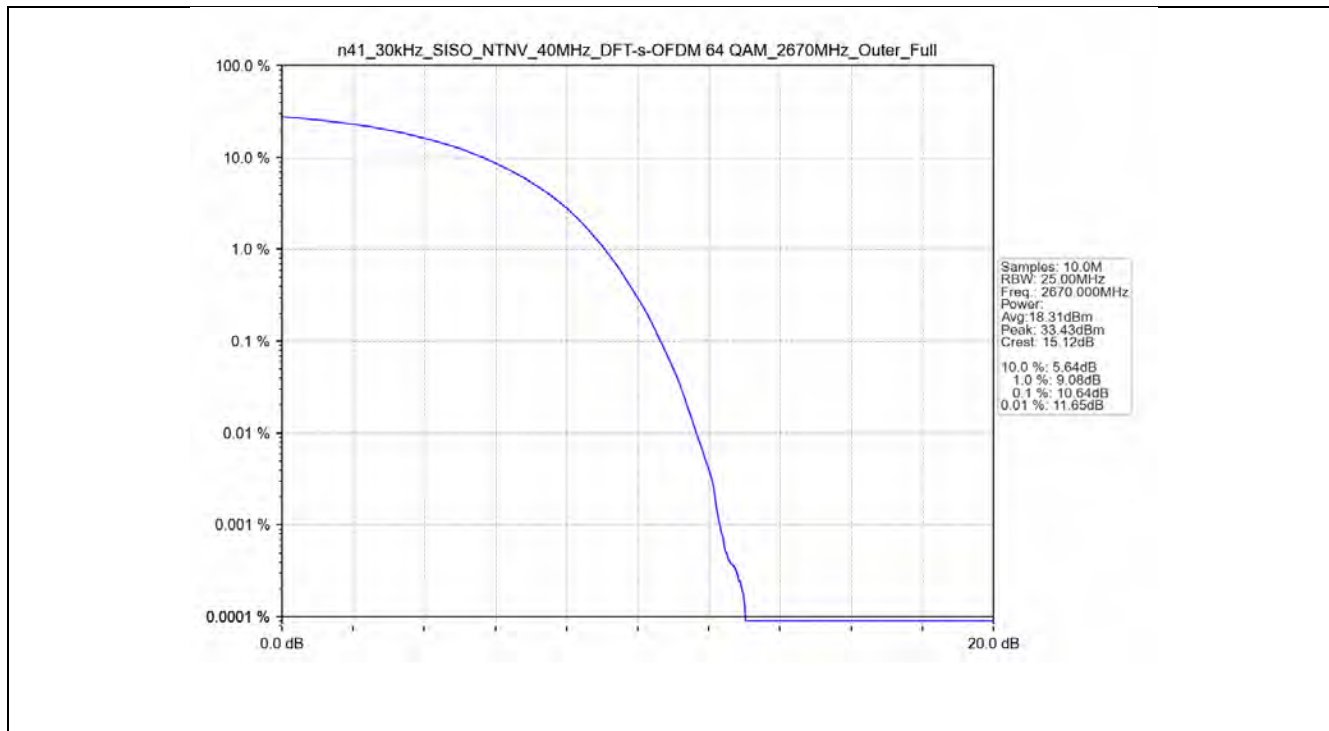
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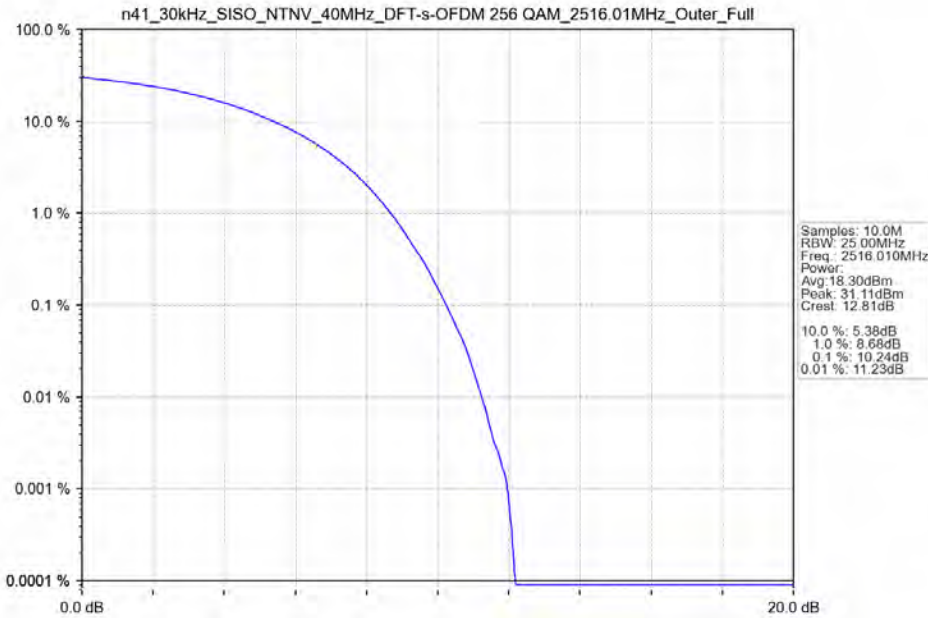
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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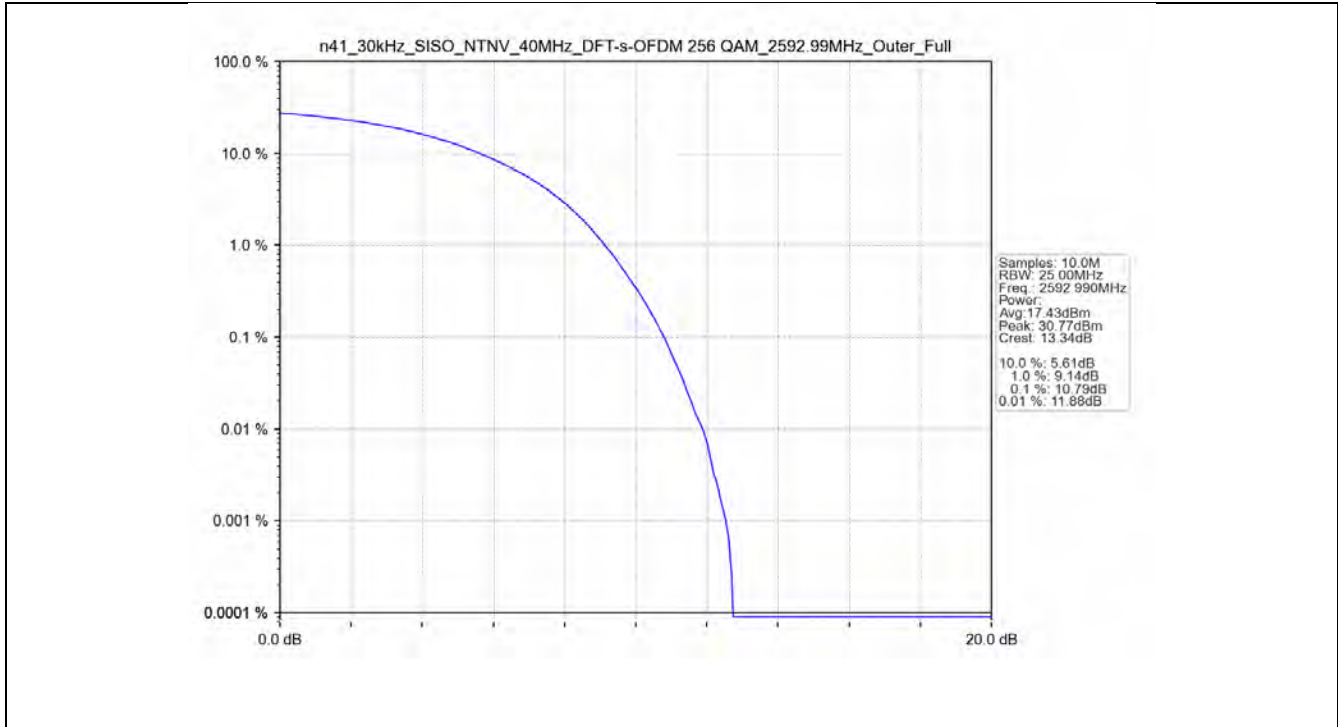


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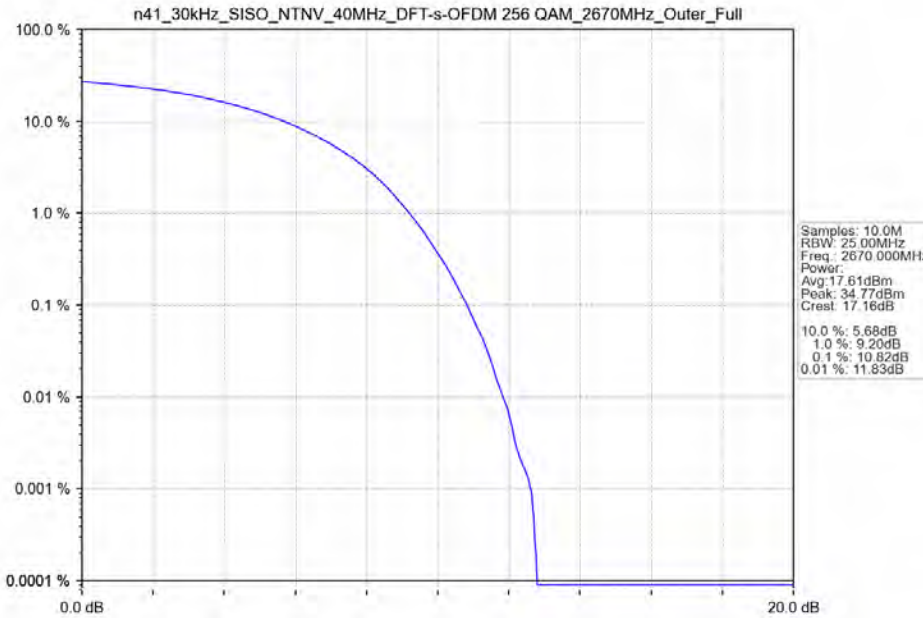
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2516.01MHz_Outer_Full



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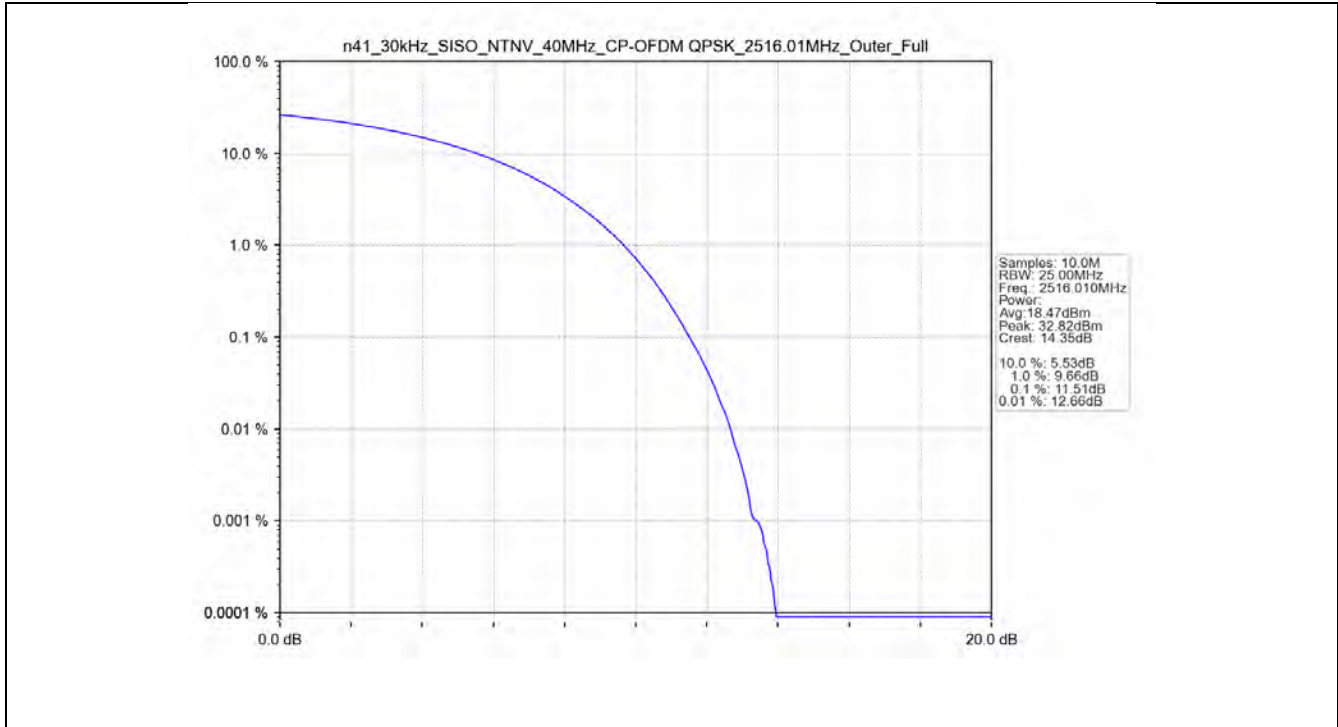


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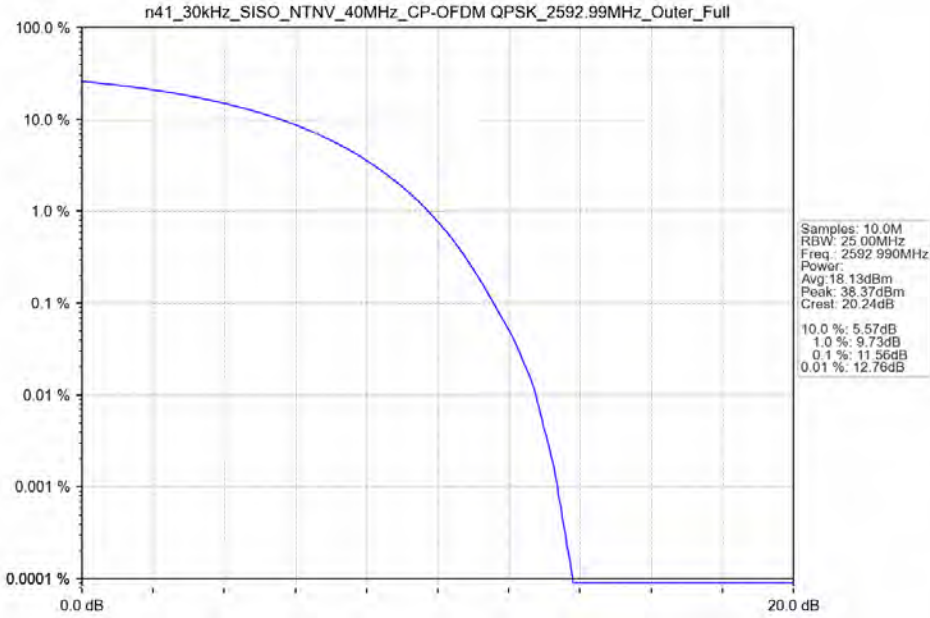
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2670MHz_Outer_Full



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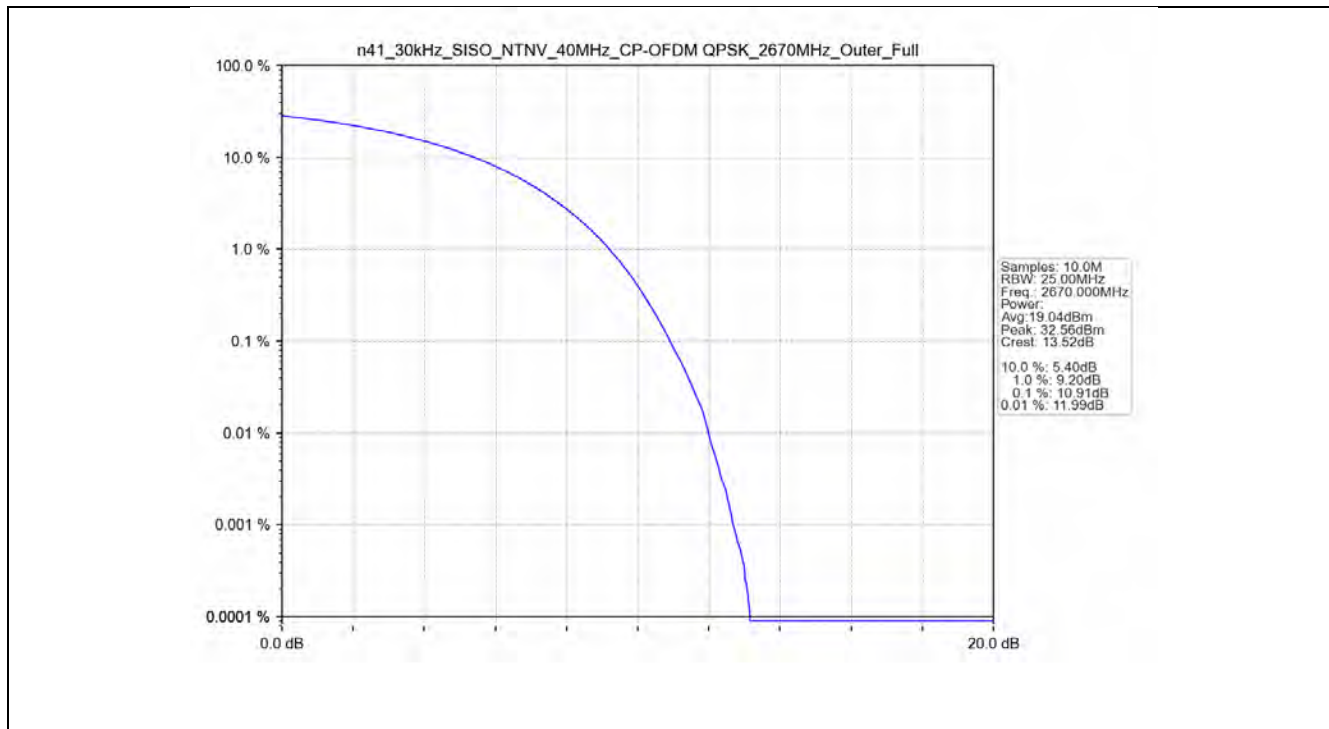
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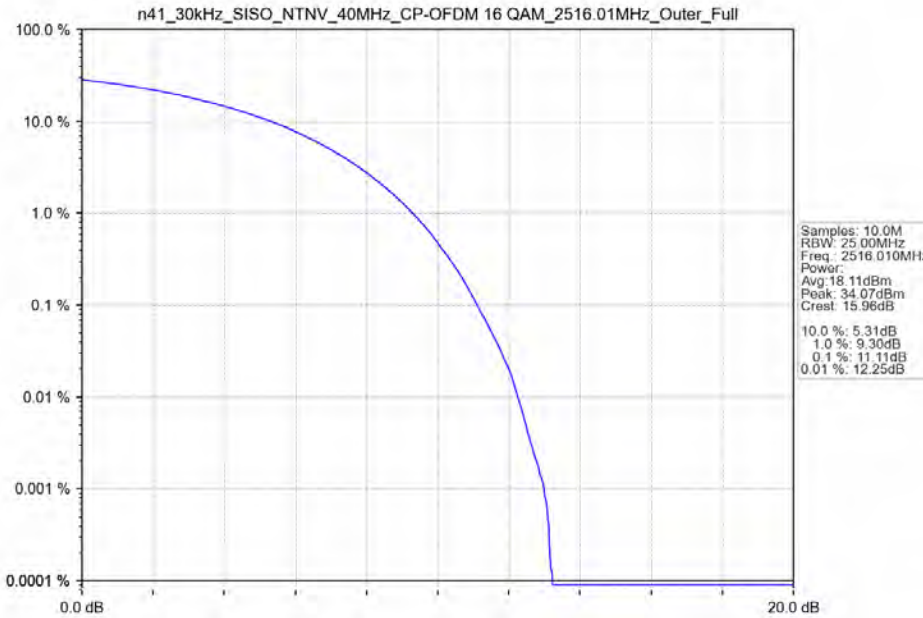
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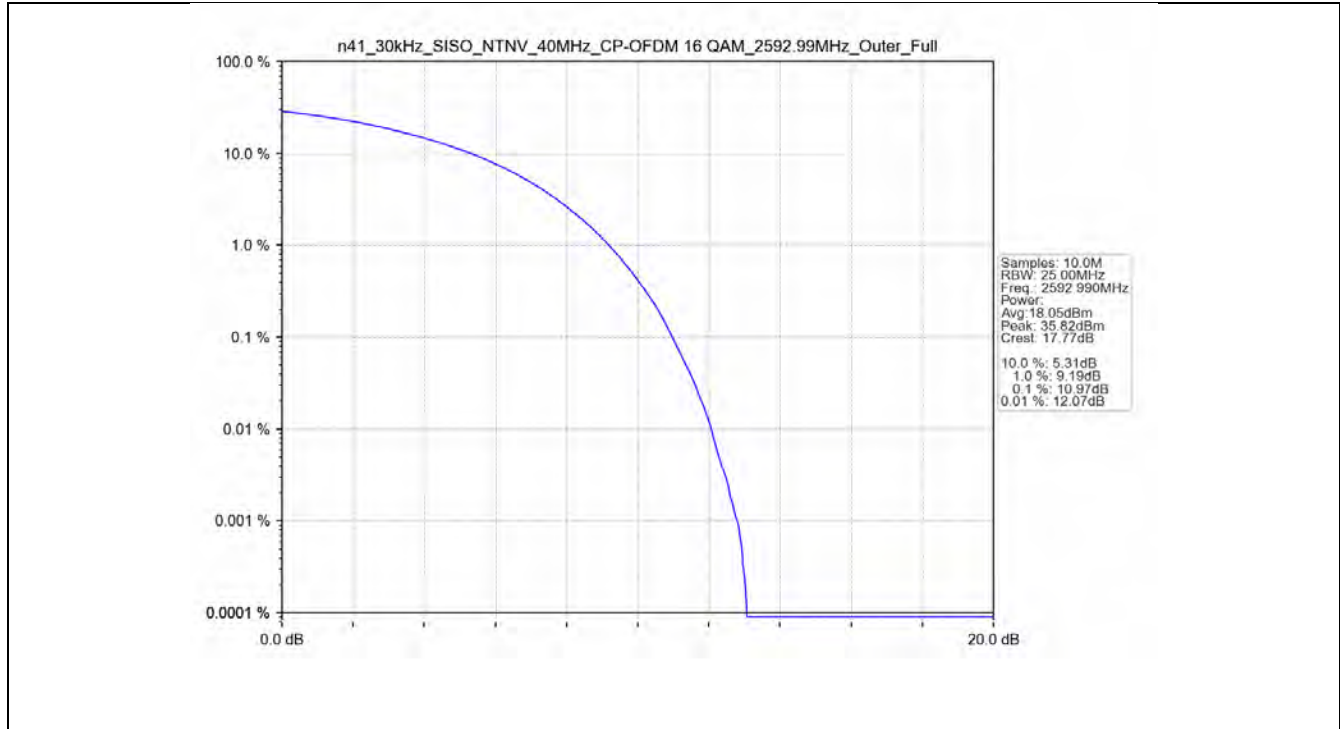


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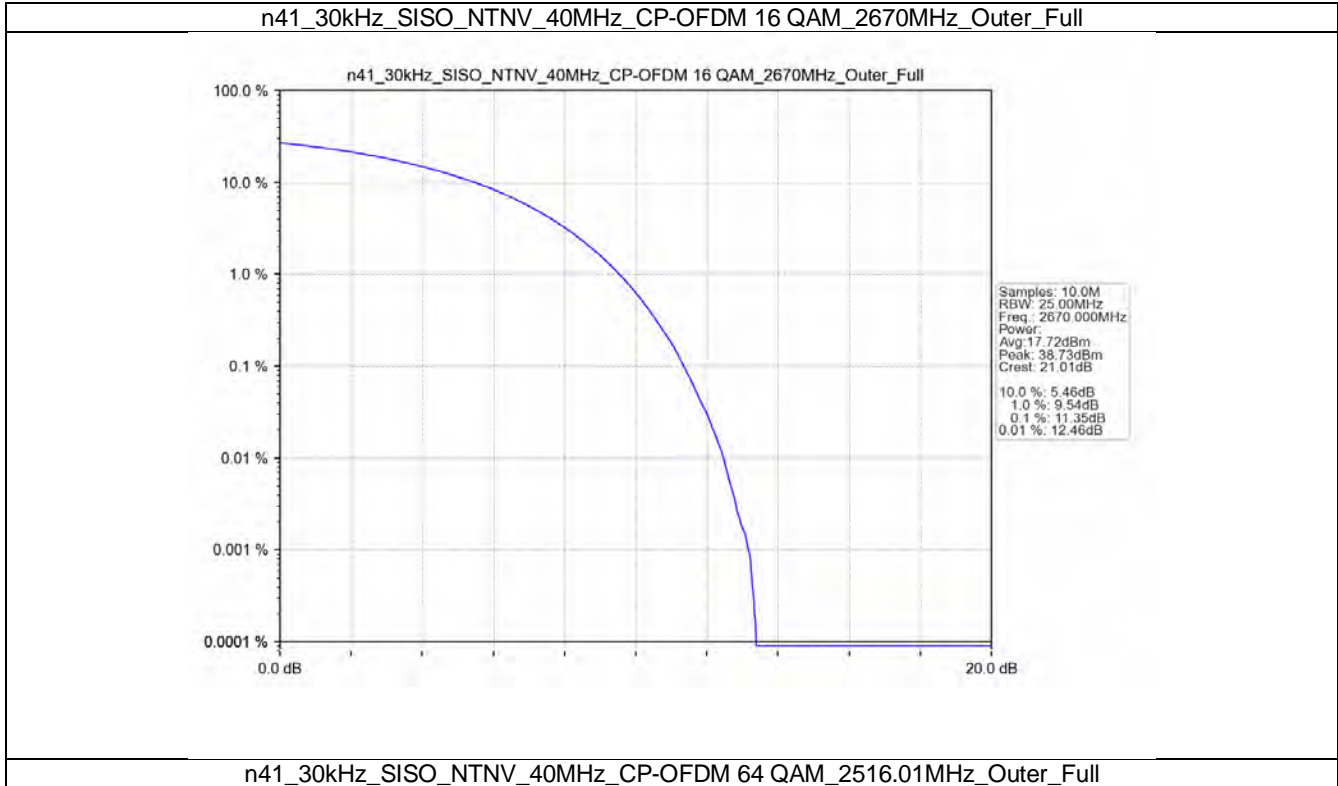


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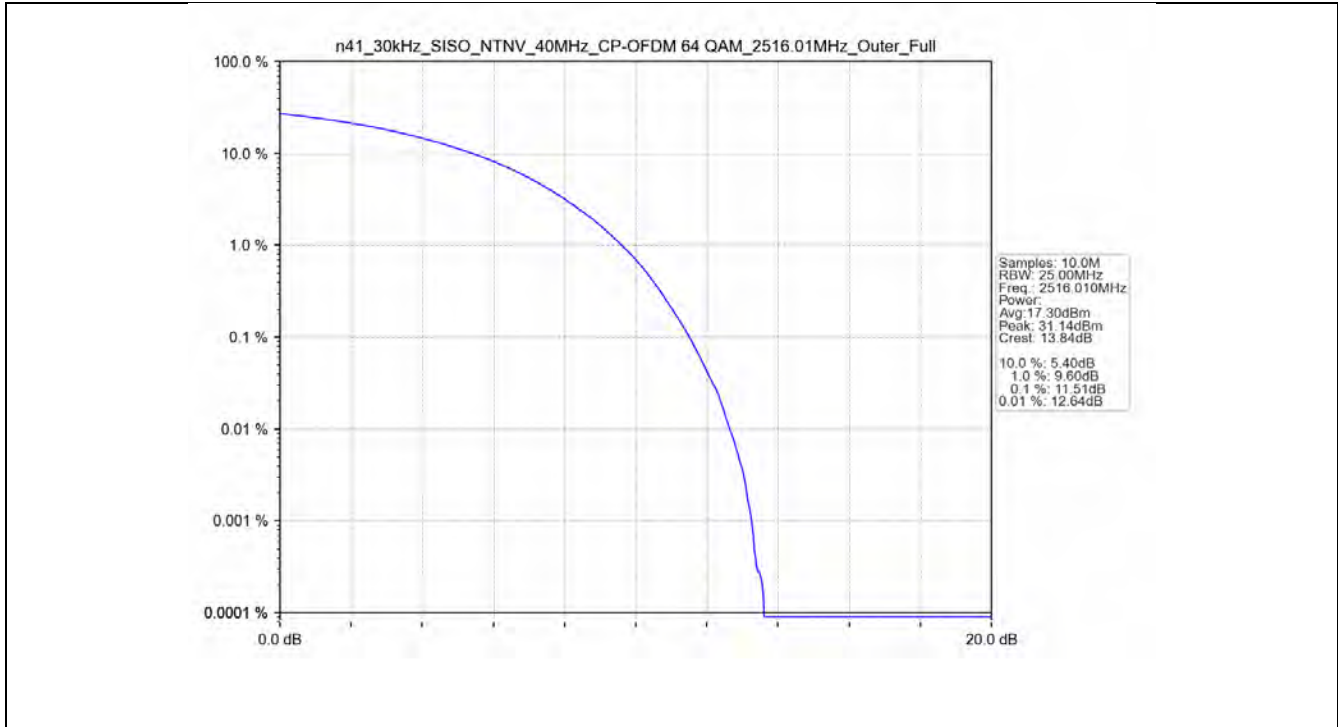


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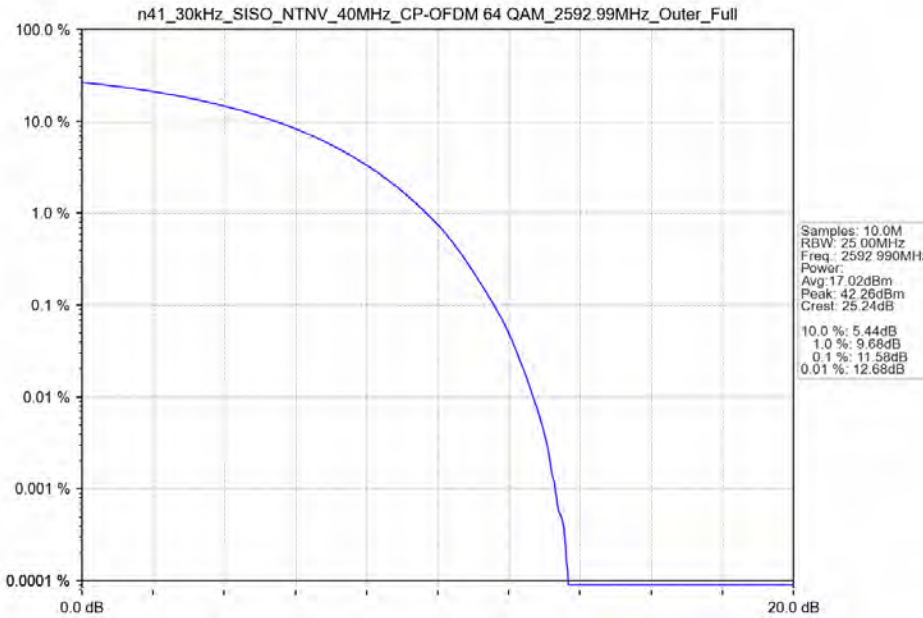
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2670MHz_Outer_Full



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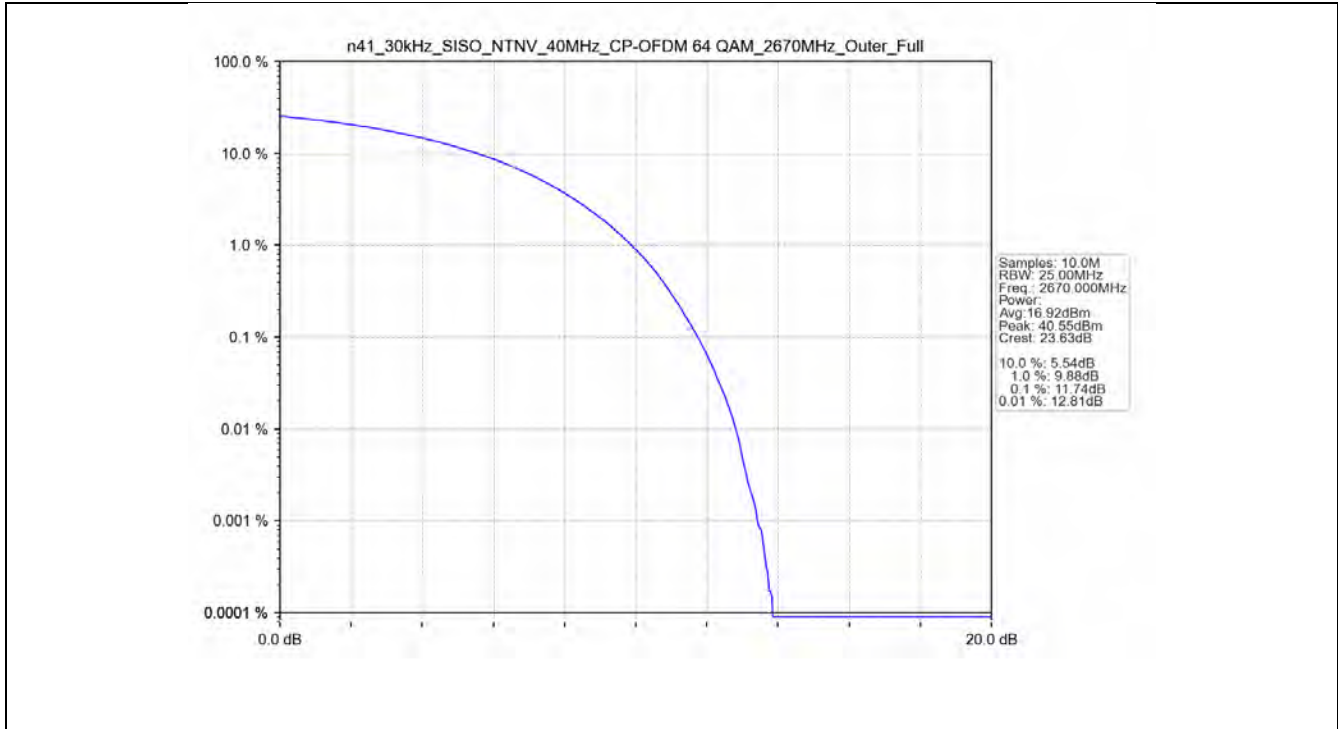


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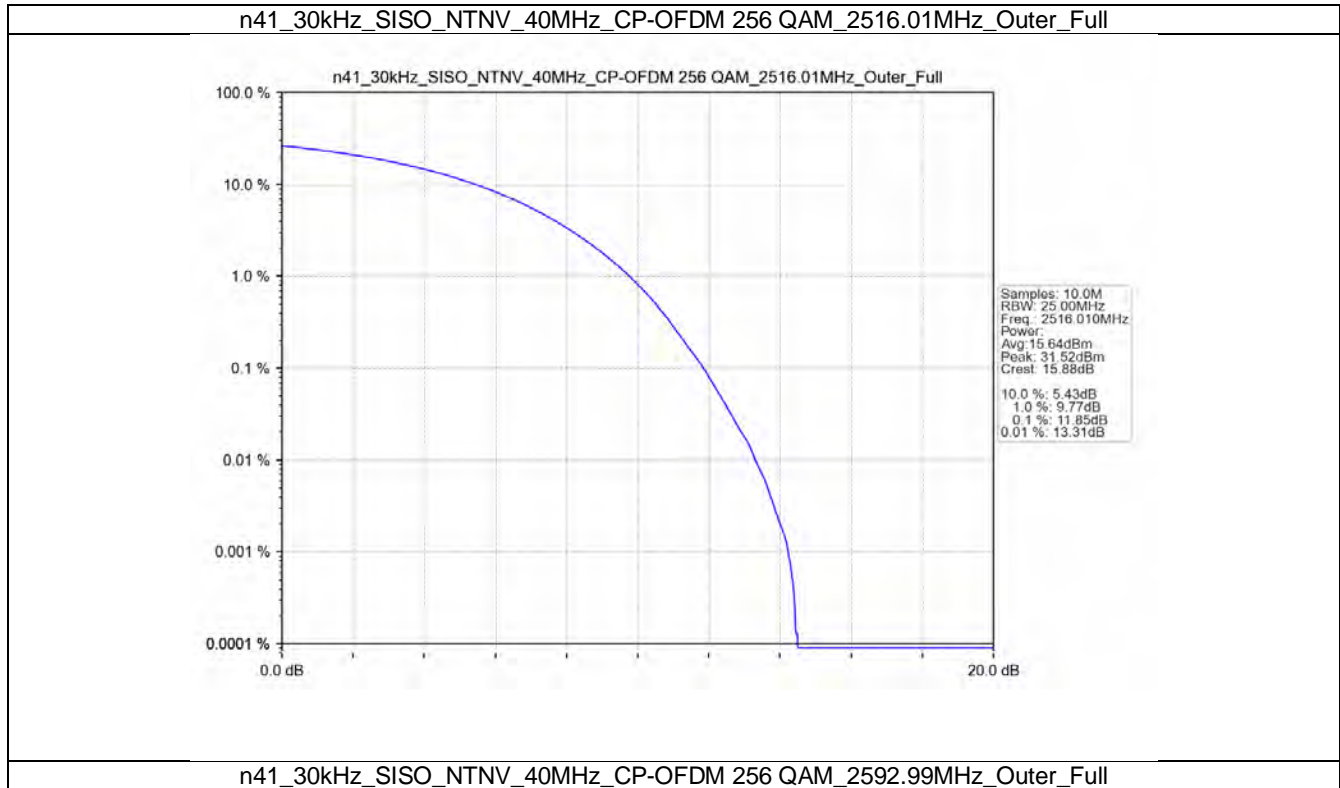


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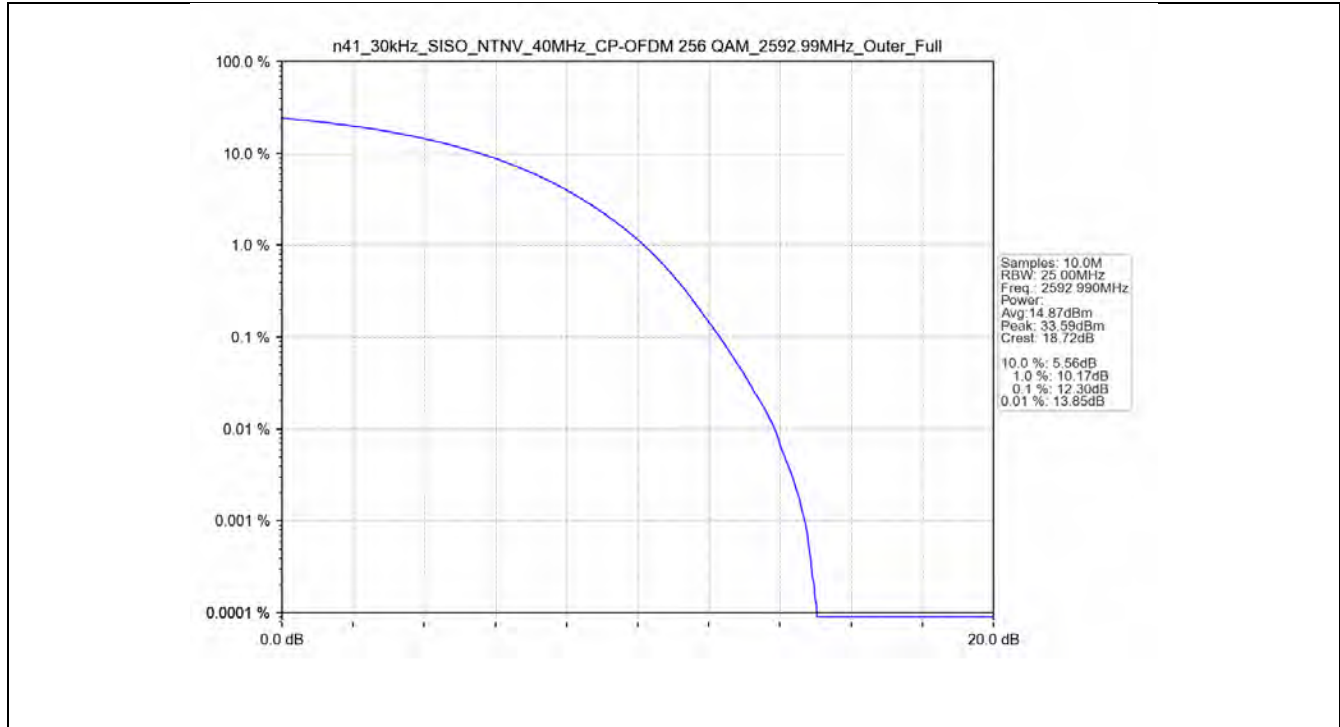


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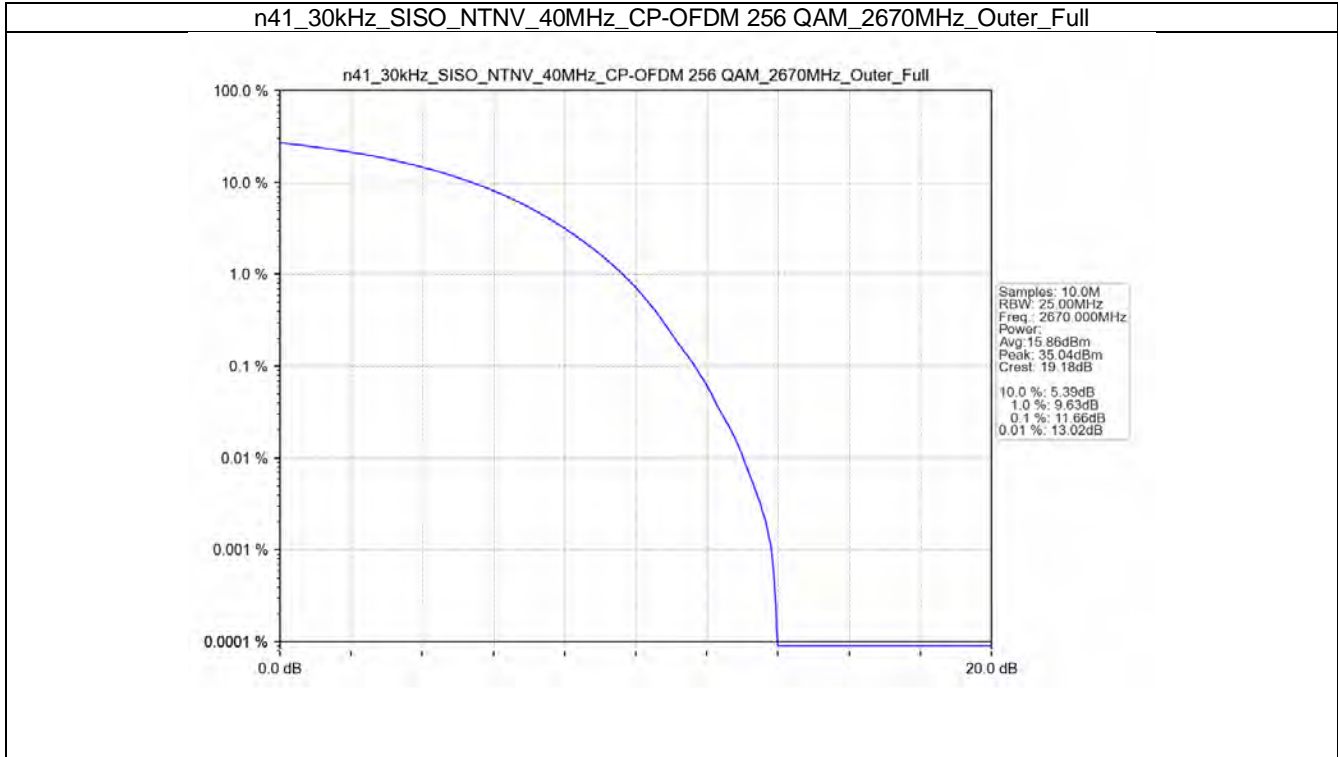
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM_256 QAM_2670MHz_Outer_Full



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4.4 30k_SISO_50MHz_NTNV

4.4.1 Test Result

5G NR n41 SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2521.02	Outer_Full	9.80	/	/	<=13	Pass
	2592.99	Outer_Full	9.75	/	/	<=13	Pass
	2664.99	Outer_Full	9.98	/	/	<=13	Pass
DFT-s-OFDM QPSK	2521.02	Outer_Full	10.27	/	/	<=13	Pass
	2592.99	Outer_Full	10.51	/	/	<=13	Pass
	2664.99	Outer_Full	10.40	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2521.02	Outer_Full	10.82	/	/	<=13	Pass
	2592.99	Outer_Full	10.82	/	/	<=13	Pass
	2664.99	Outer_Full	10.35	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2521.02	Outer_Full	10.65	/	/	<=13	Pass
	2592.99	Outer_Full	10.86	/	/	<=13	Pass
	2664.99	Outer_Full	10.35	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2521.02	Outer_Full	10.36	/	/	<=13	Pass
	2592.99	Outer_Full	11.05	/	/	<=13	Pass
	2664.99	Outer_Full	10.84	/	/	<=13	Pass
CP-OFDM QPSK	2521.02	Outer_Full	11.52	/	/	<=13	Pass
	2592.99	Outer_Full	11.58	/	/	<=13	Pass
	2664.99	Outer_Full	10.82	/	/	<=13	Pass
CP-OFDM 16 QAM	2521.02	Outer_Full	11.46	/	/	<=13	Pass
	2592.99	Outer_Full	11.18	/	/	<=13	Pass
	2664.99	Outer_Full	10.99	/	/	<=13	Pass
CP-OFDM 64 QAM	2521.02	Outer_Full	11.48	/	/	<=13	Pass
	2592.99	Outer_Full	11.96	/	/	<=13	Pass
	2664.99	Outer_Full	11.34	/	/	<=13	Pass
CP-OFDM 256 QAM	2521.02	Outer_Full	11.97	/	/	<=13	Pass
	2592.99	Outer_Full	12.47	/	/	<=13	Pass
	2664.99	Outer_Full	11.81	/	/	<=13	Pass



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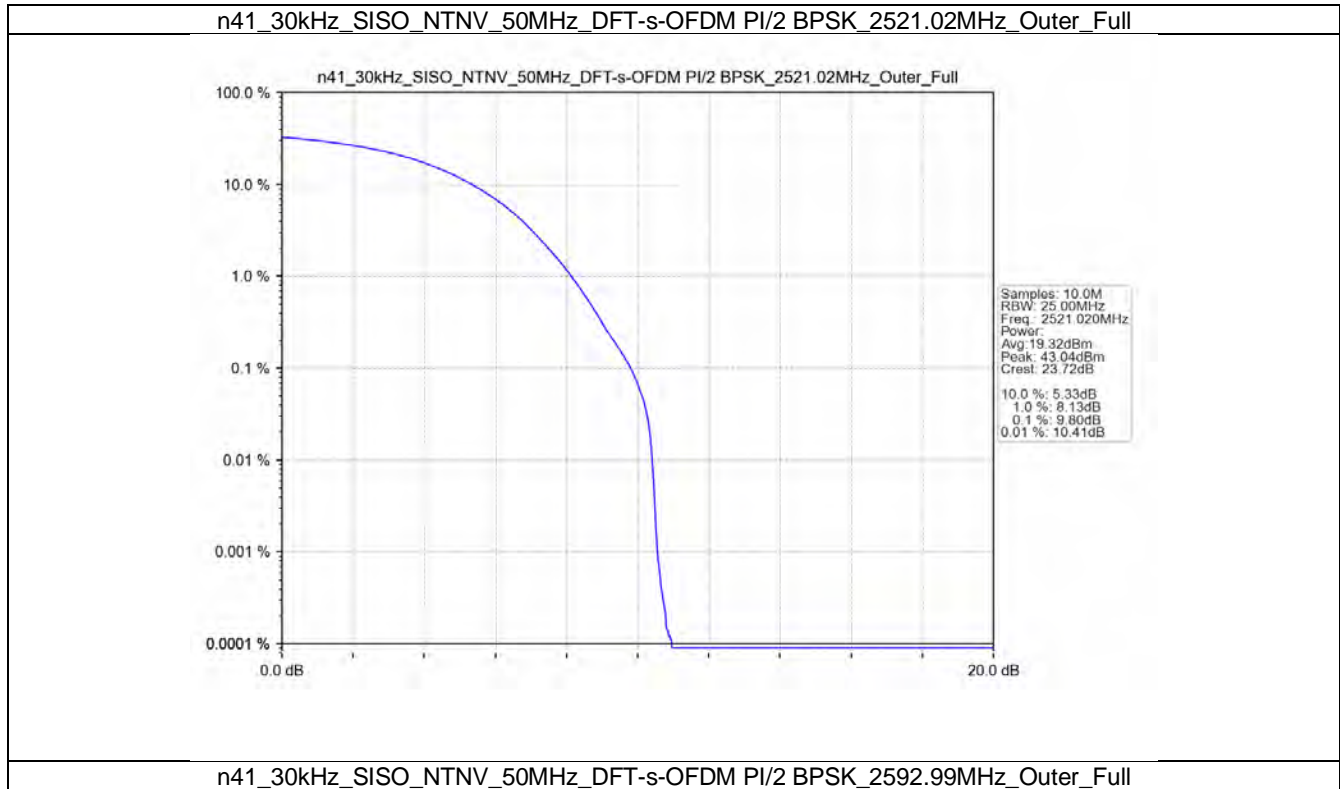
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4.4.2 Test Graph



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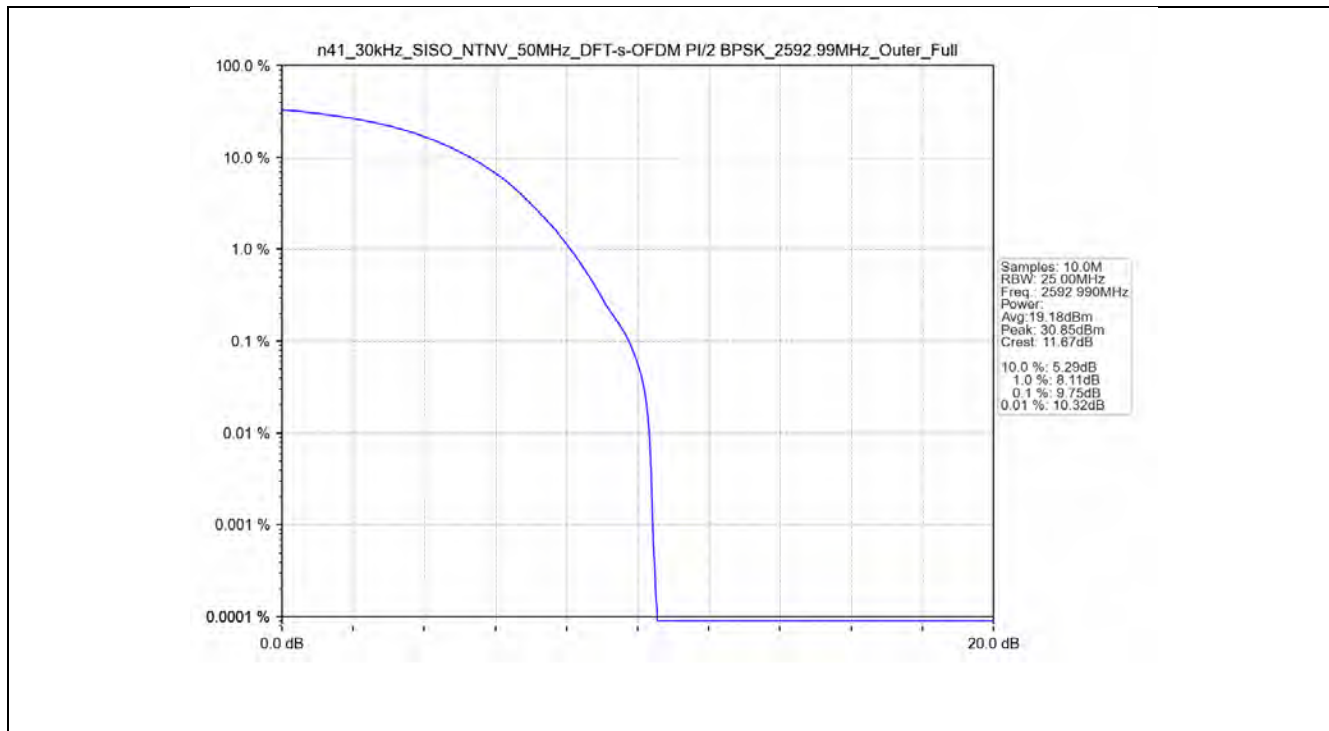
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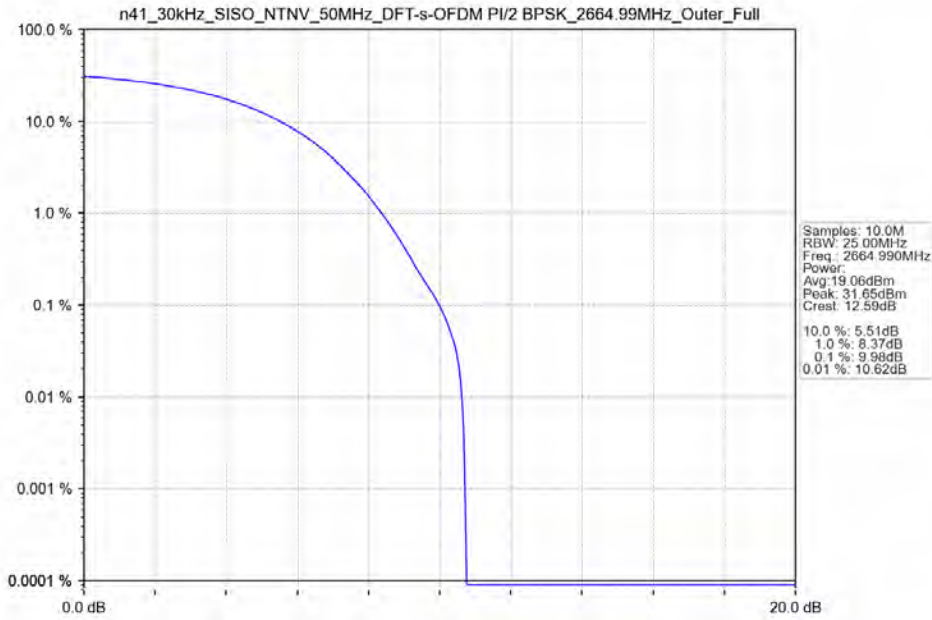
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2521.02MHz_Outer_Full



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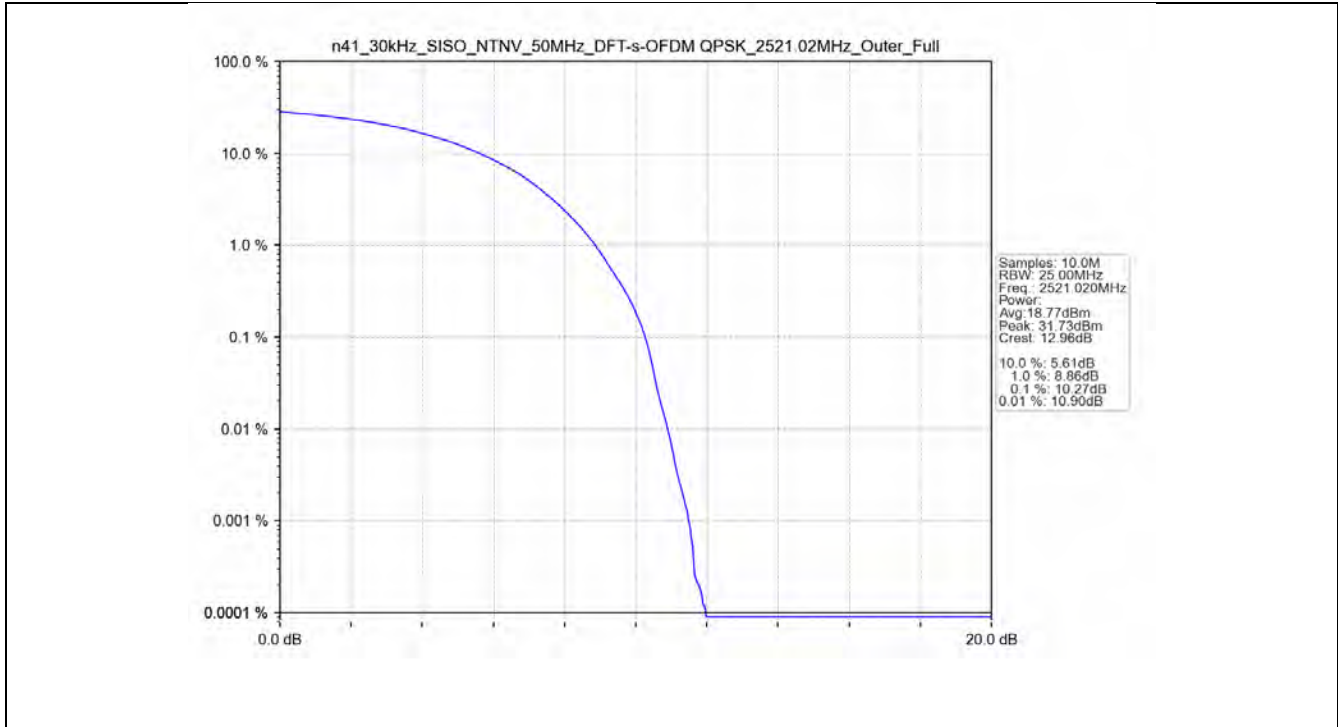


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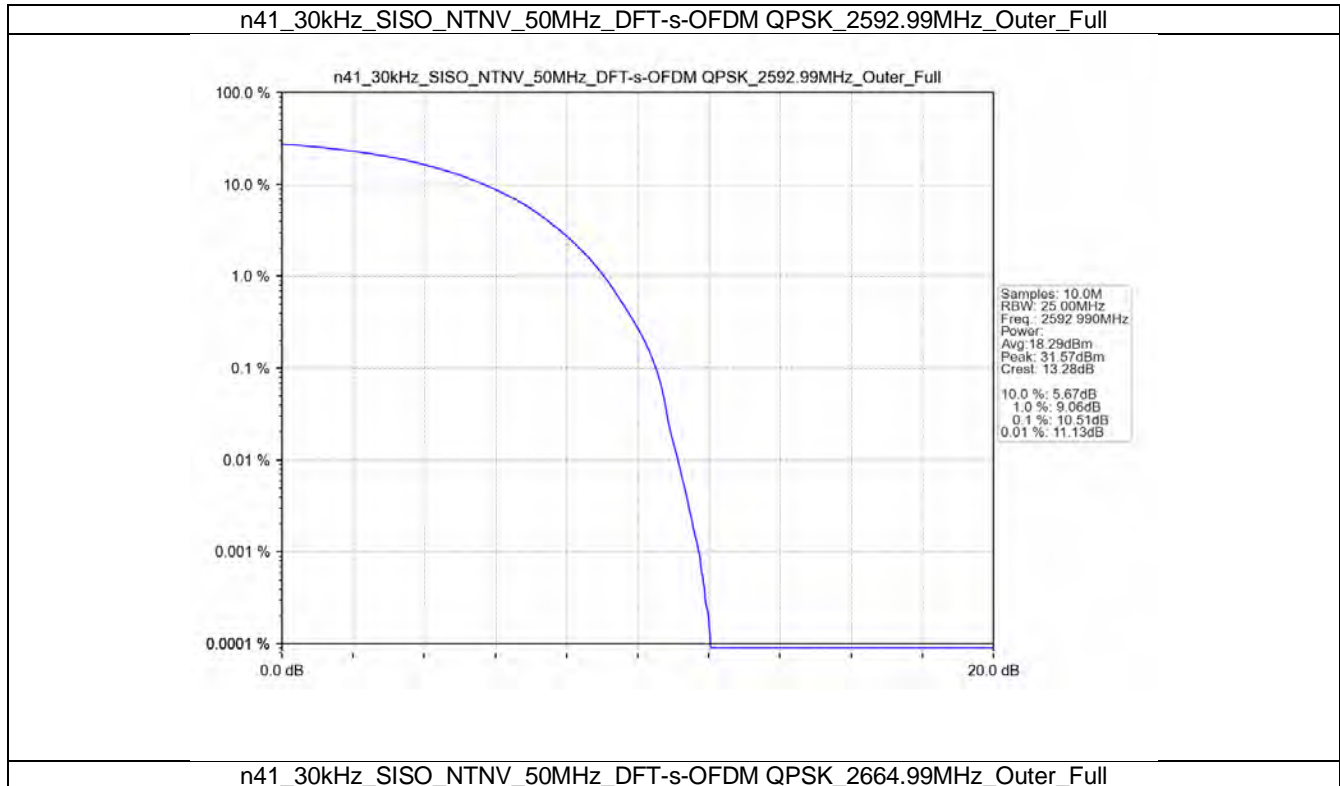


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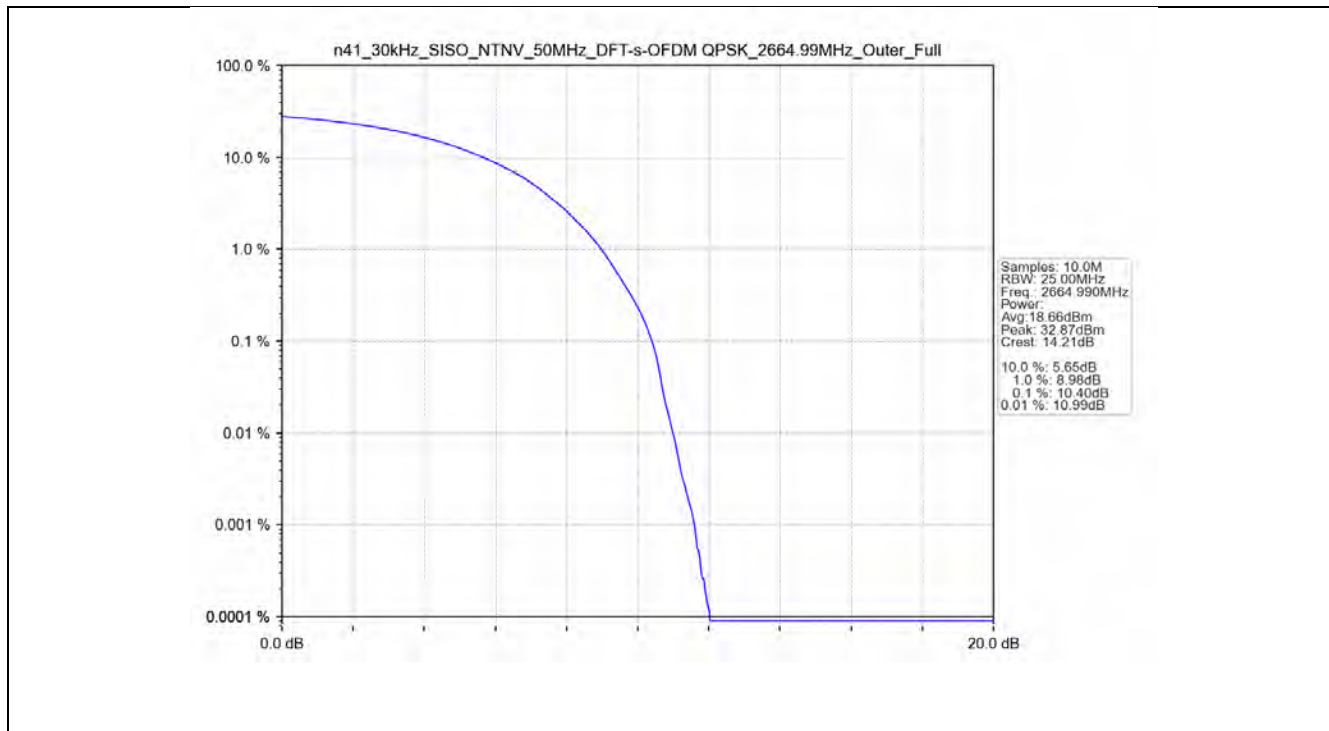
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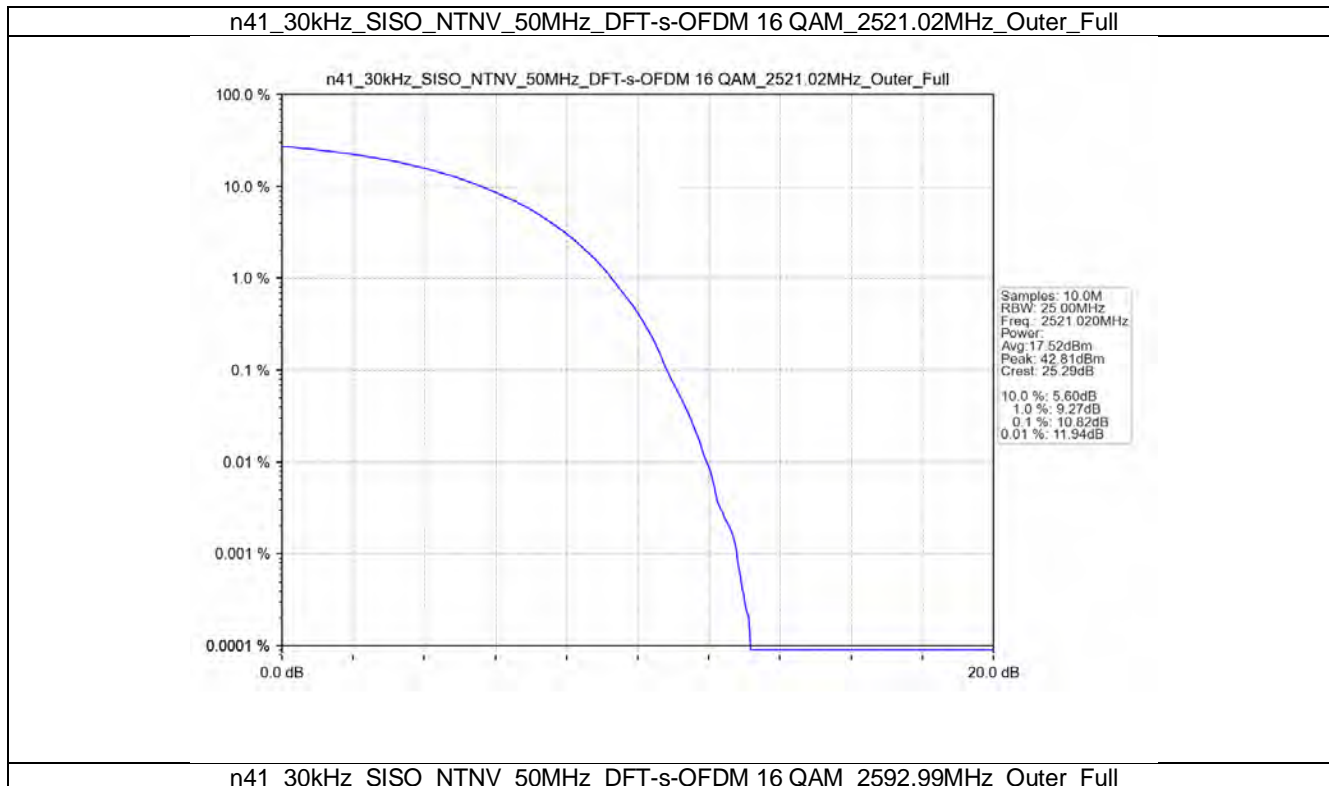
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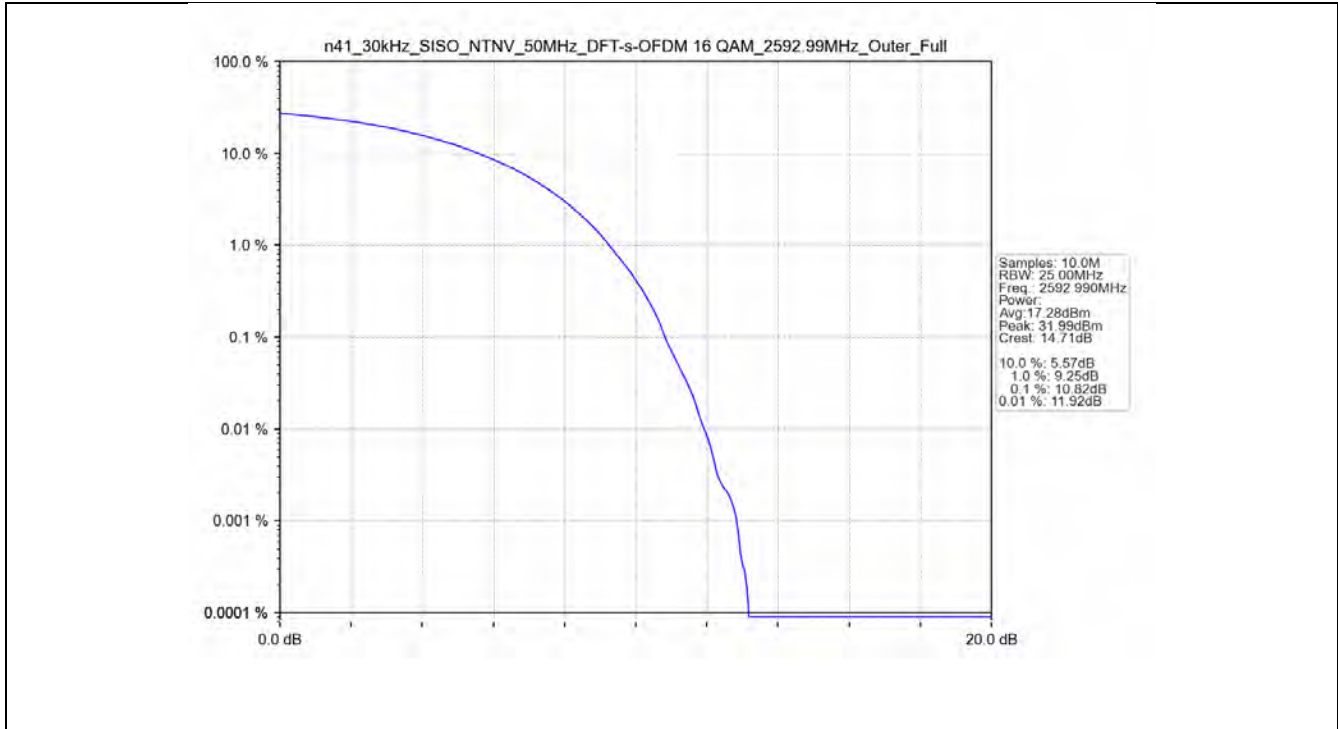


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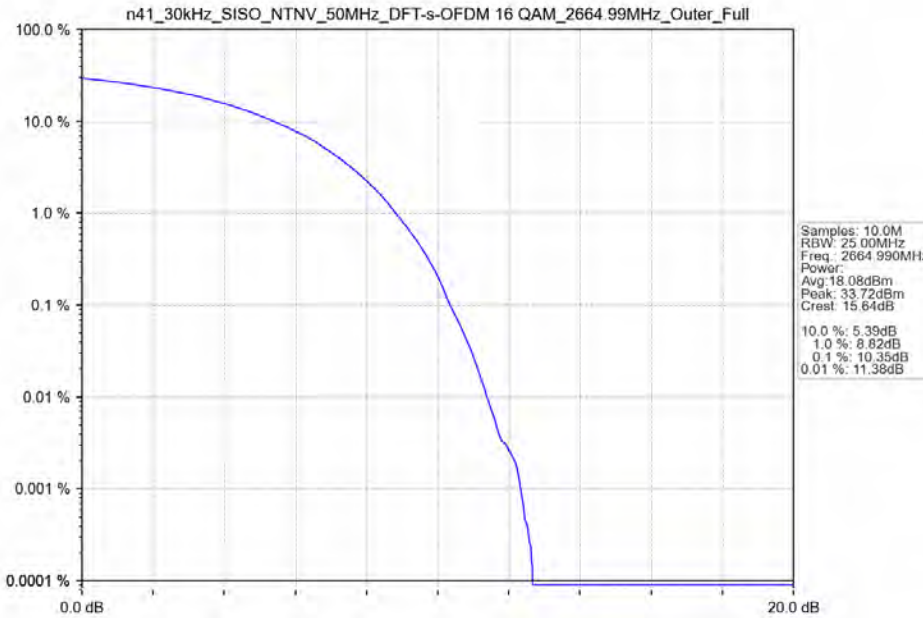
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2521.02MHz_Outer_Full



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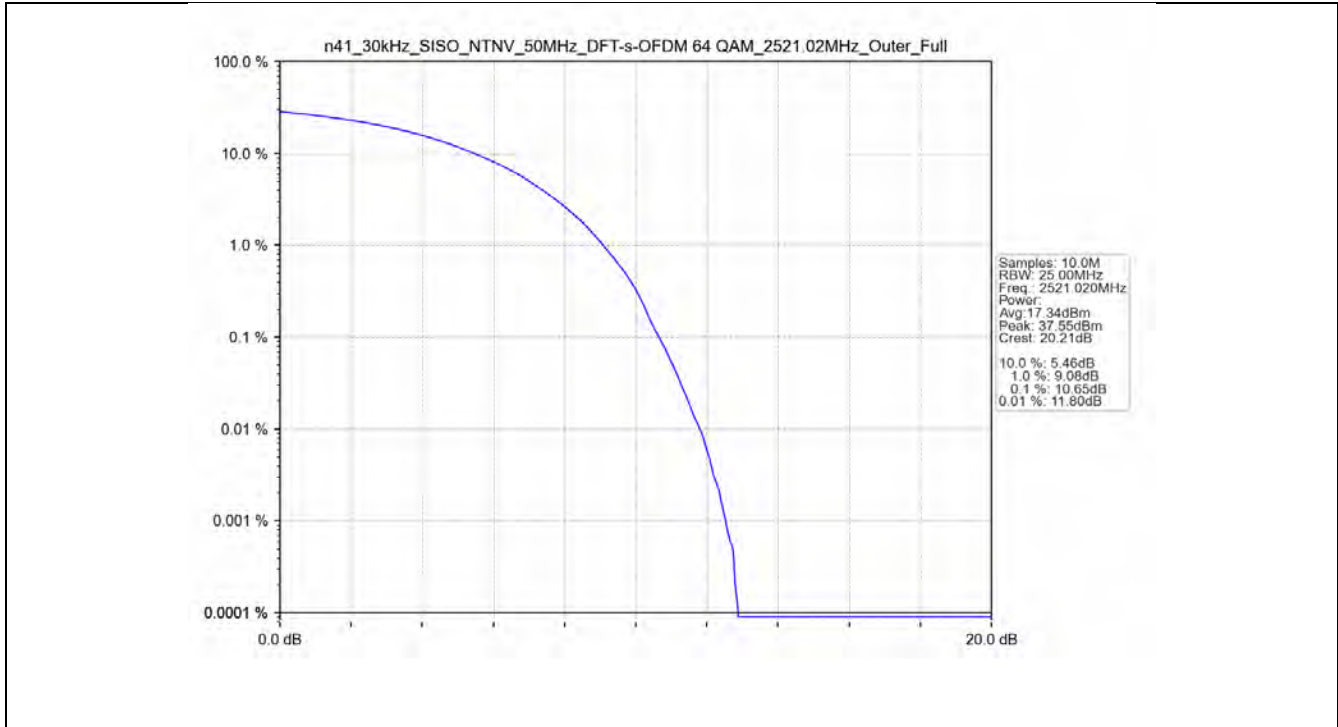


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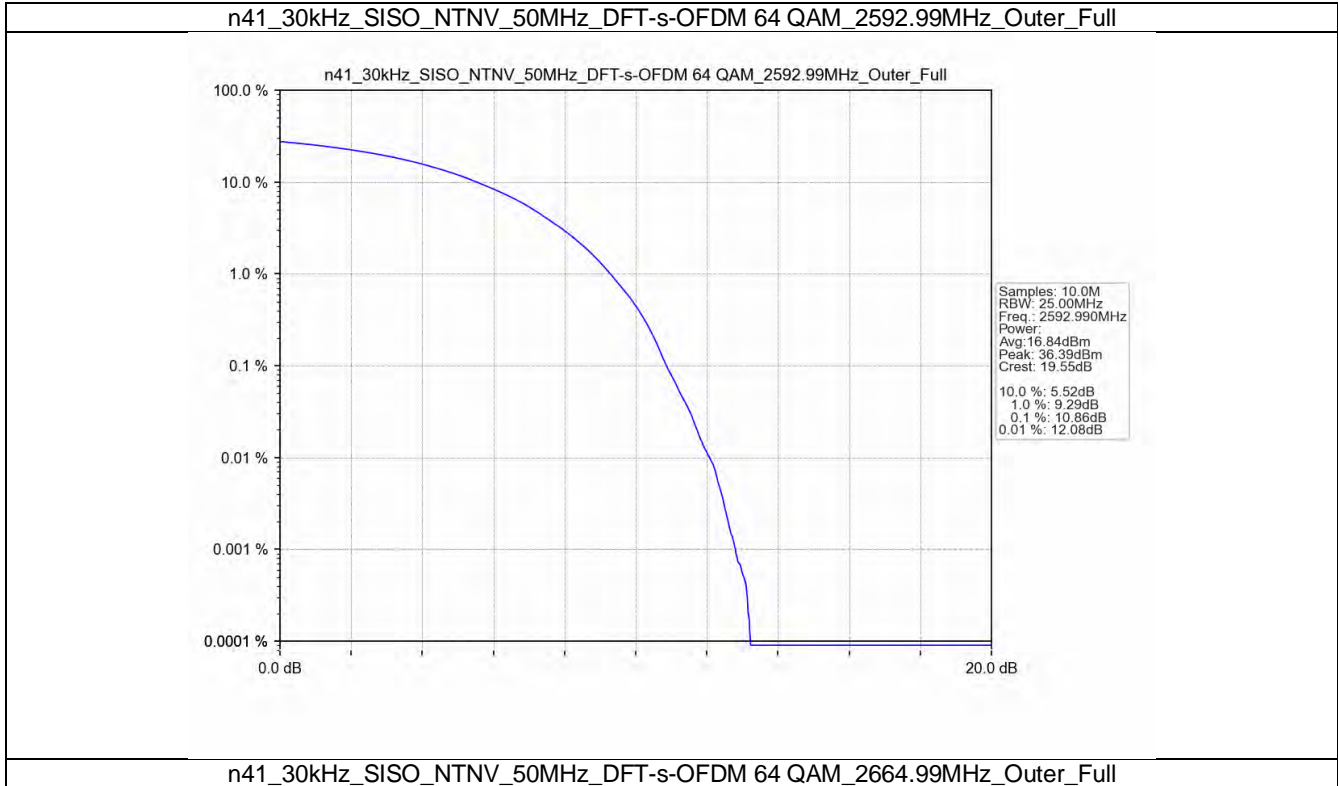


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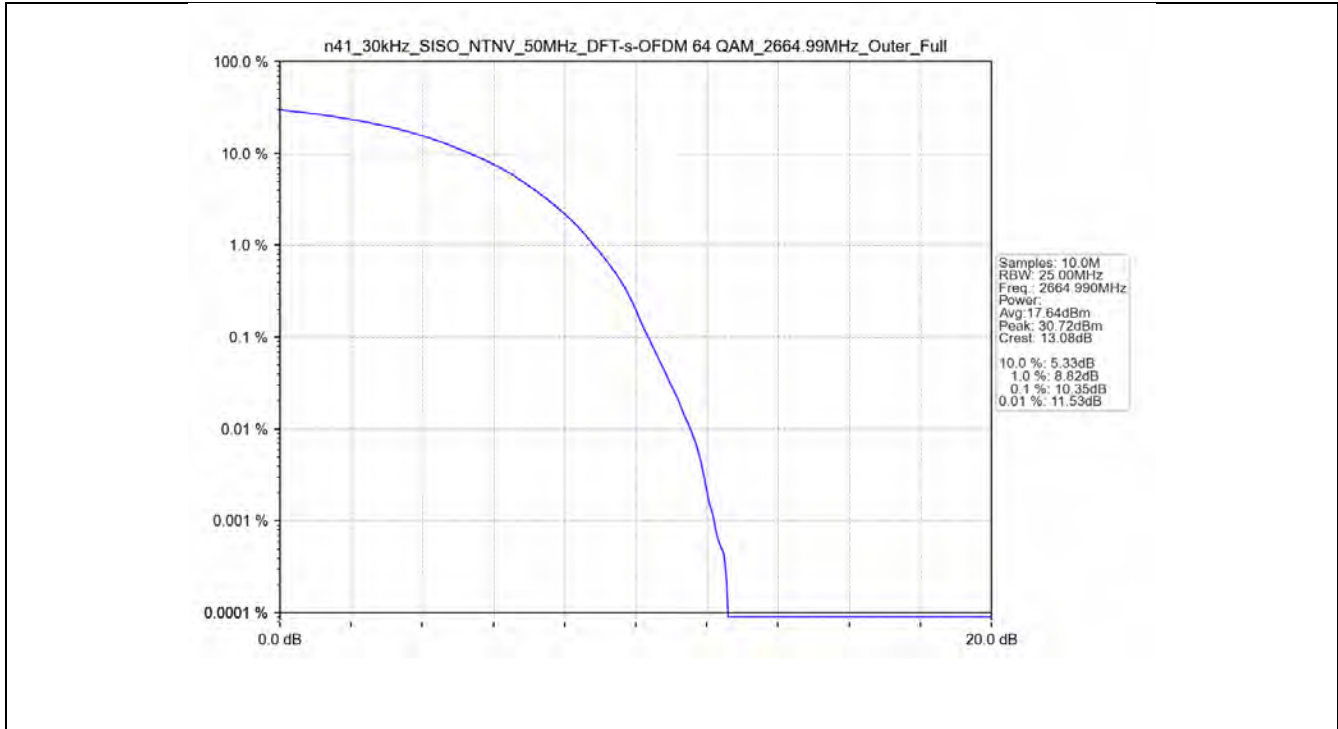


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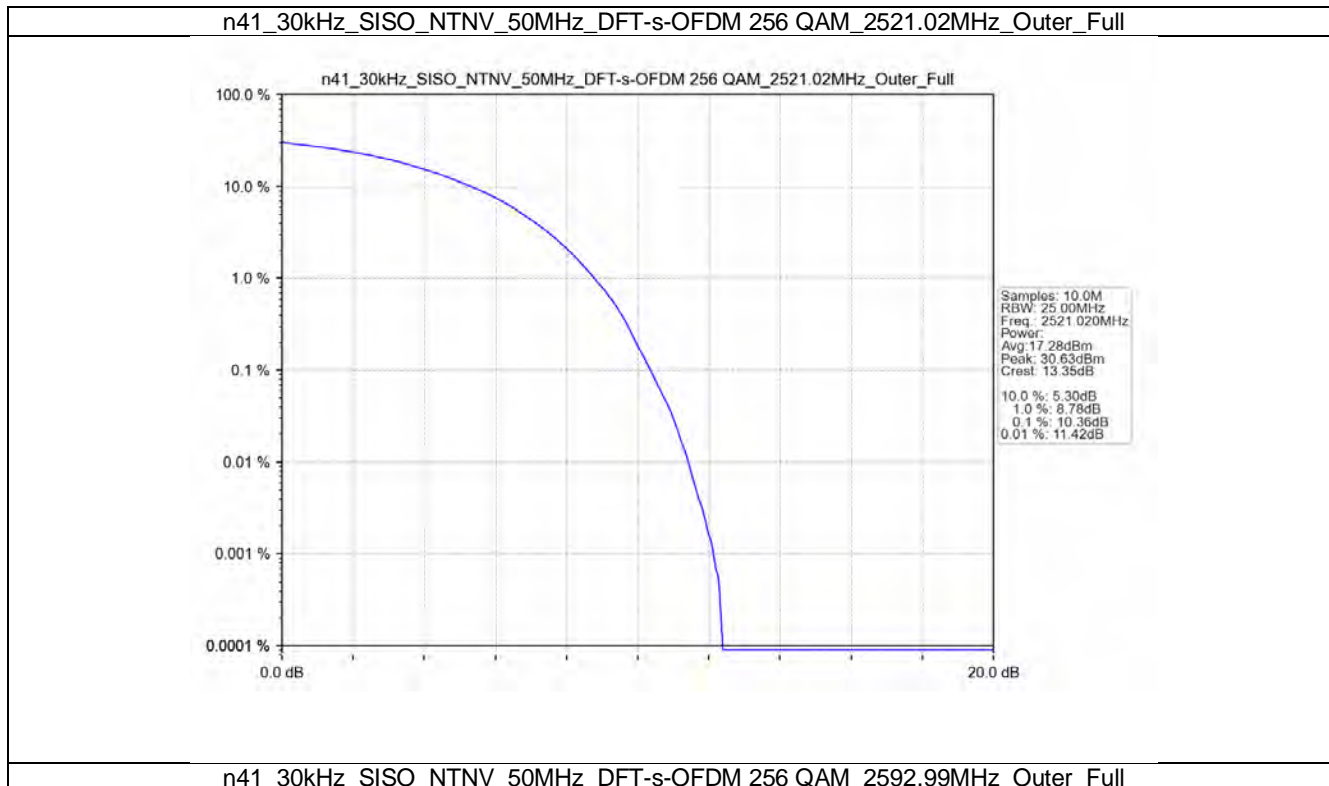
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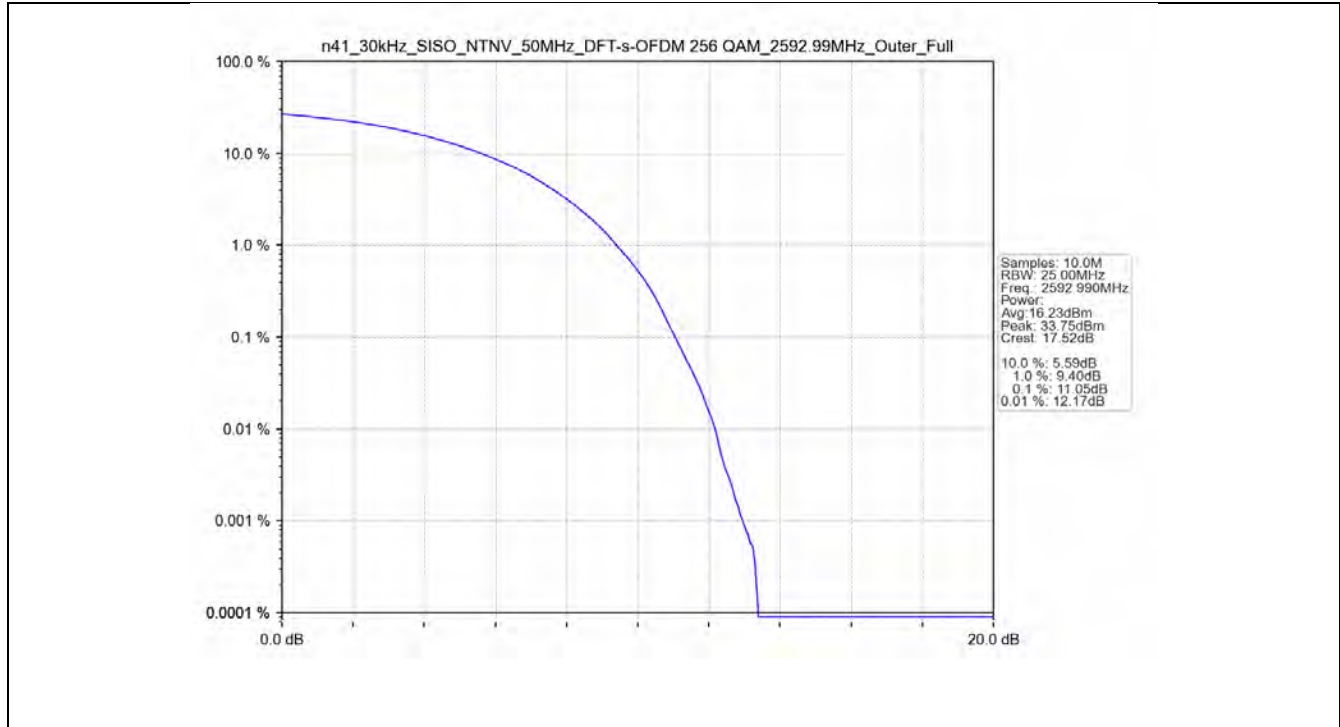


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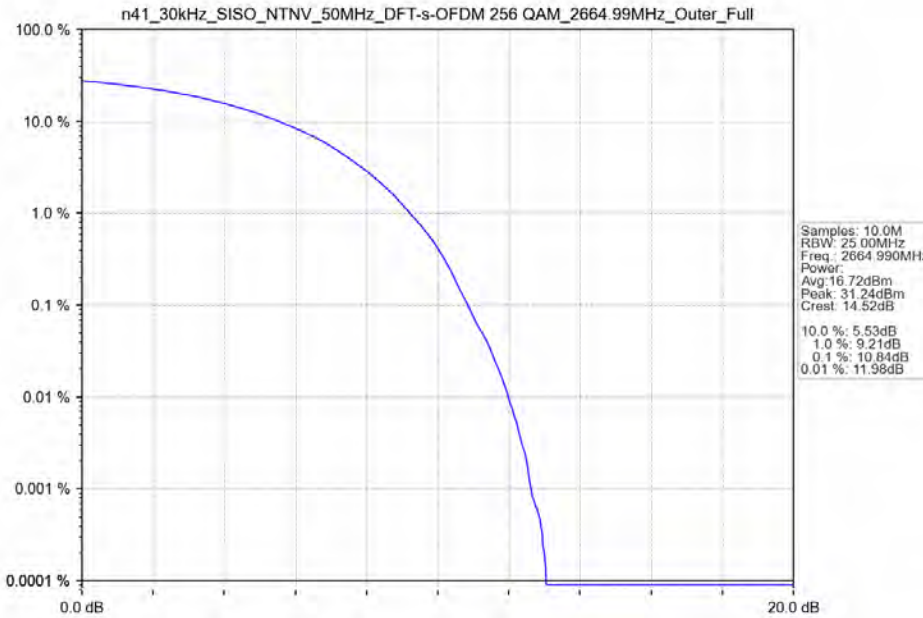
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2521.02MHz_Outer_Full



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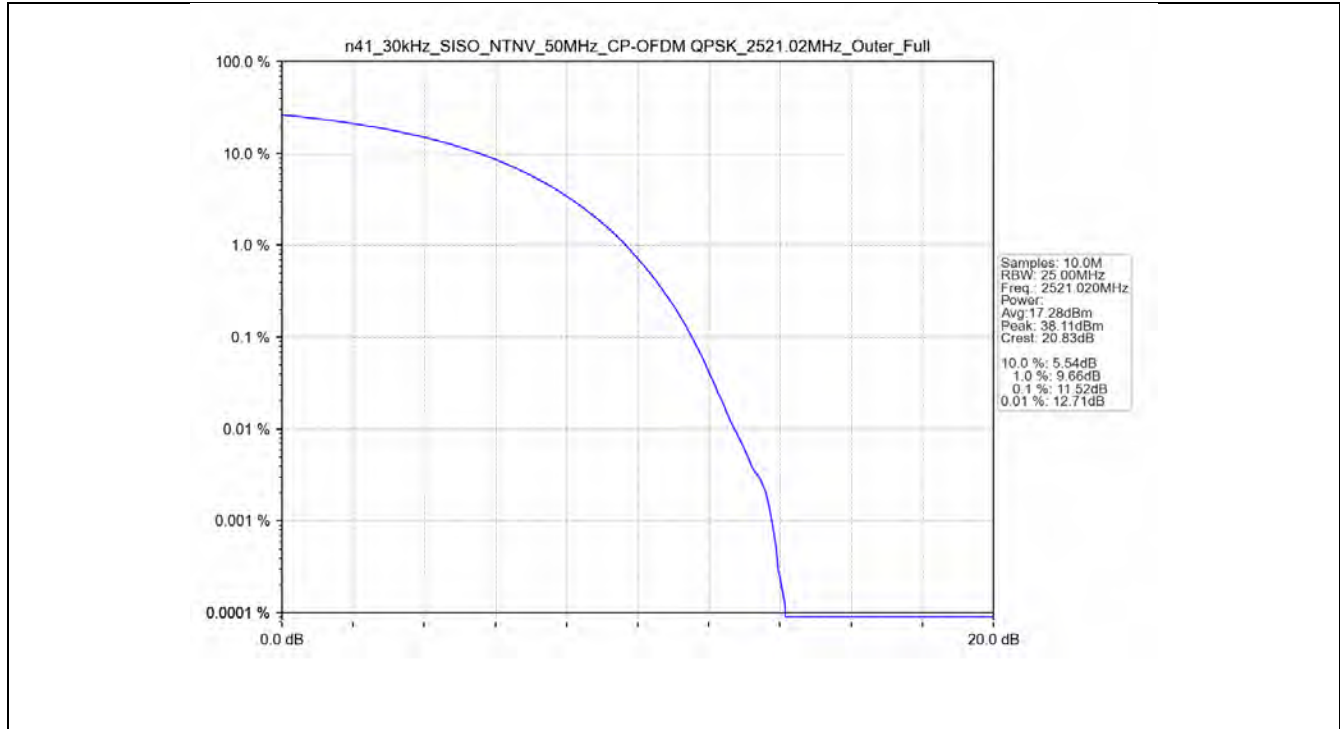


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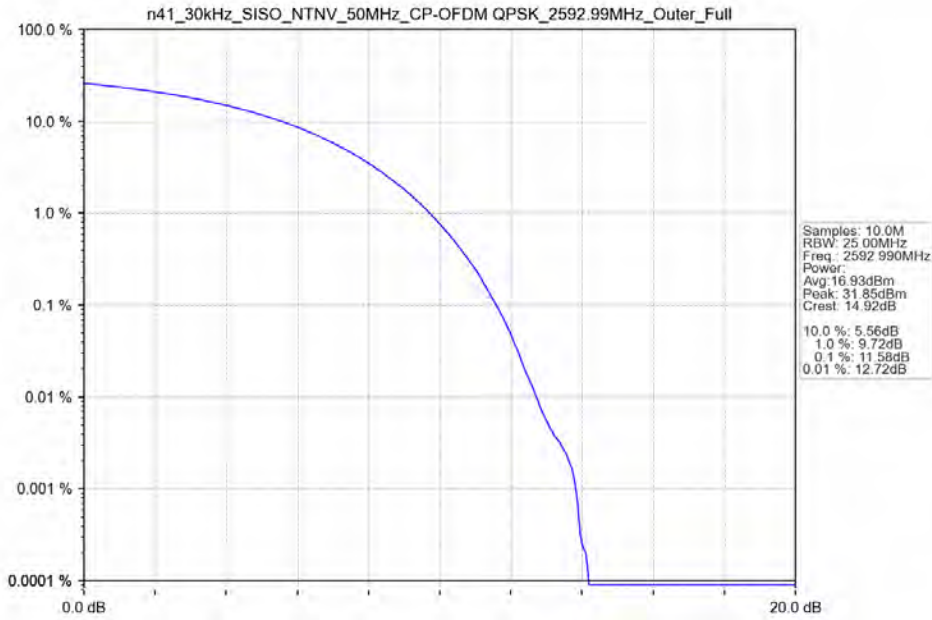
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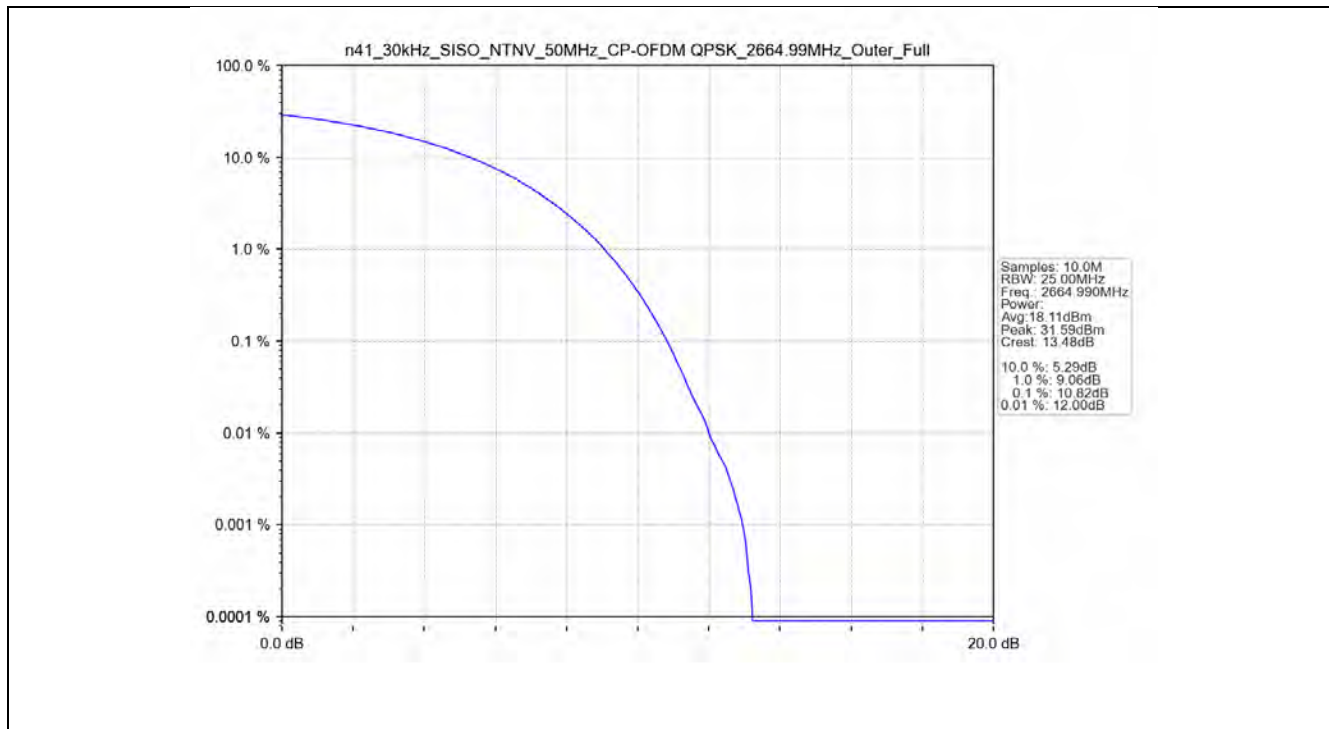
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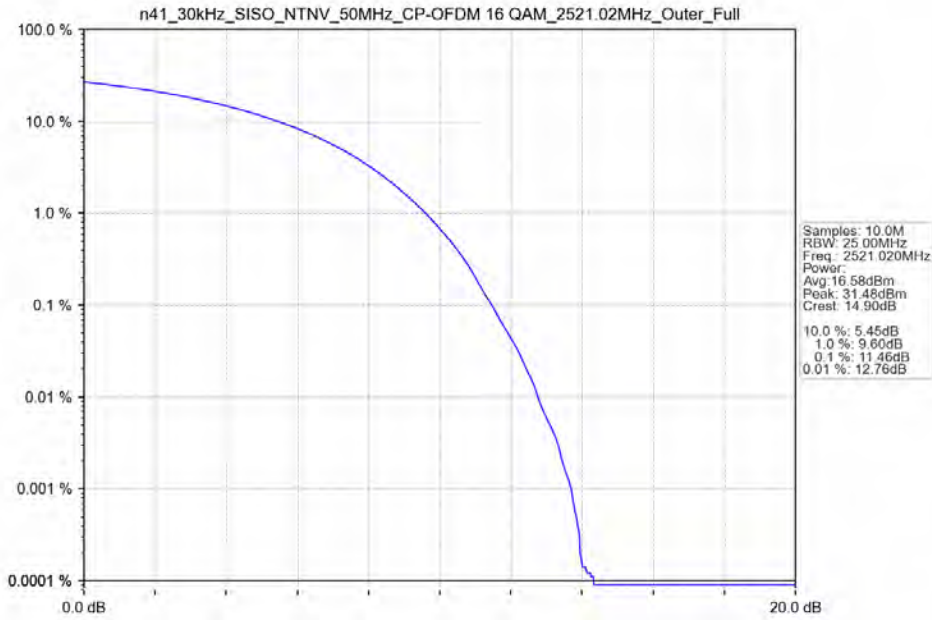
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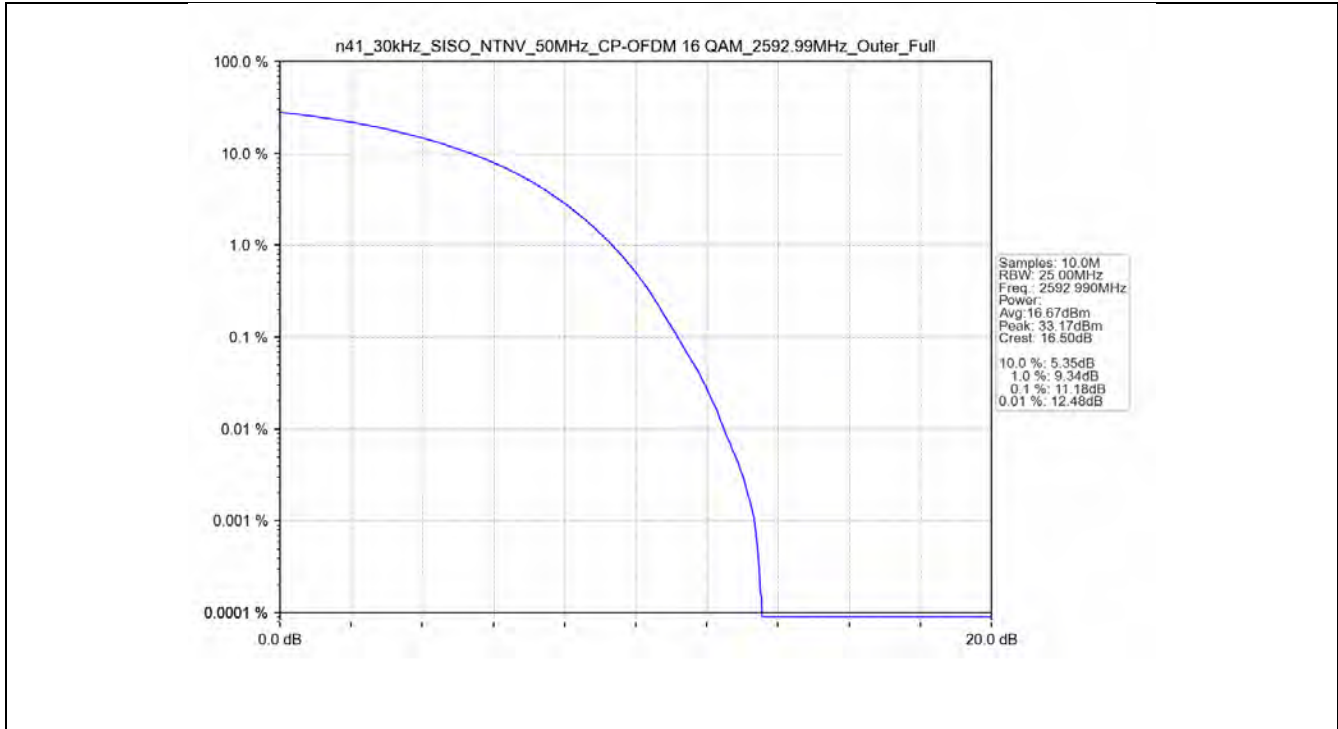


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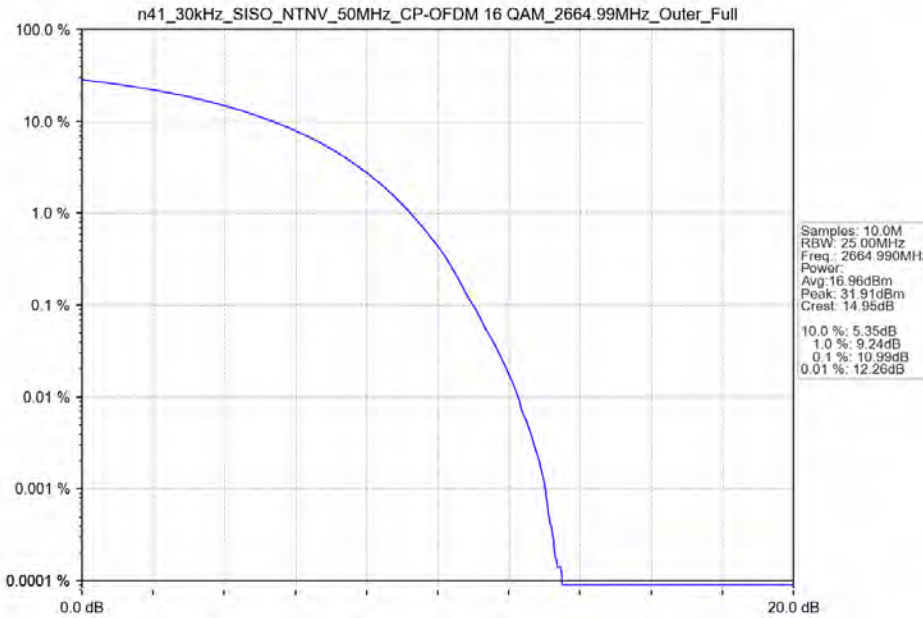
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2521.02MHz_Outer_Full



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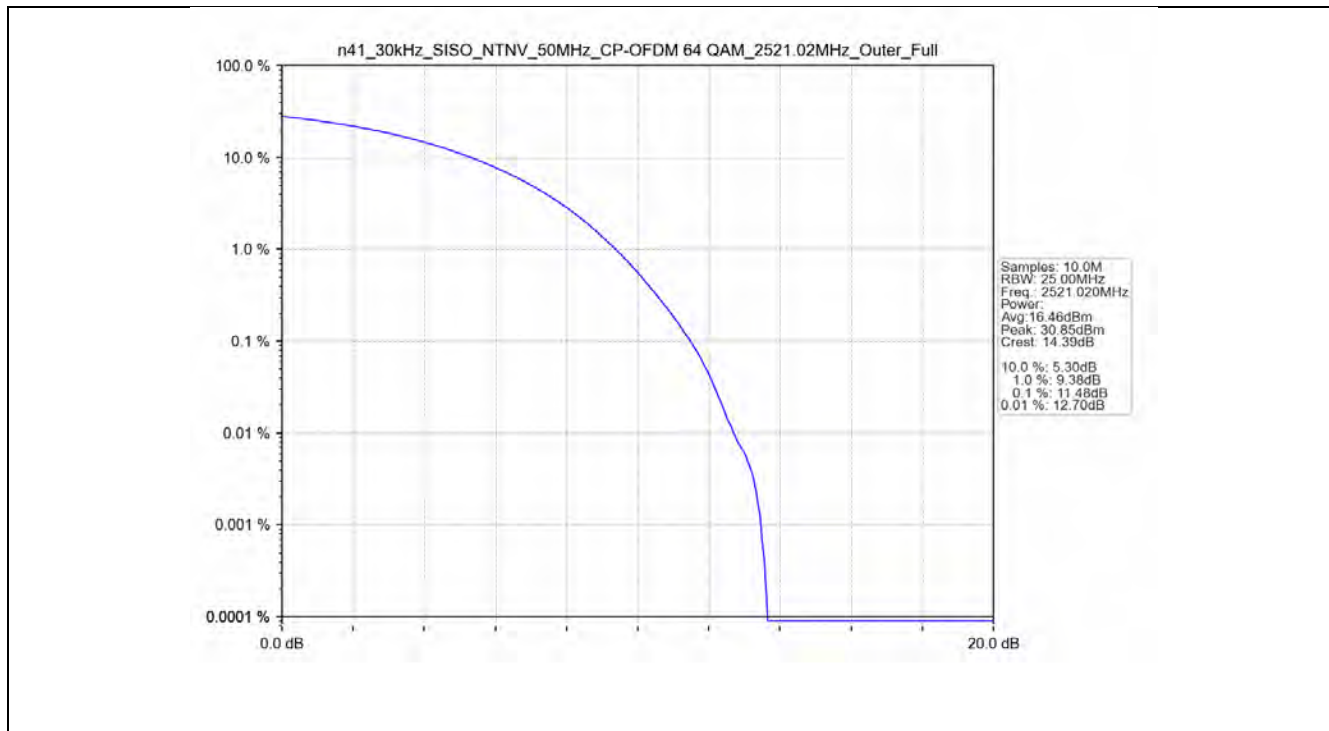
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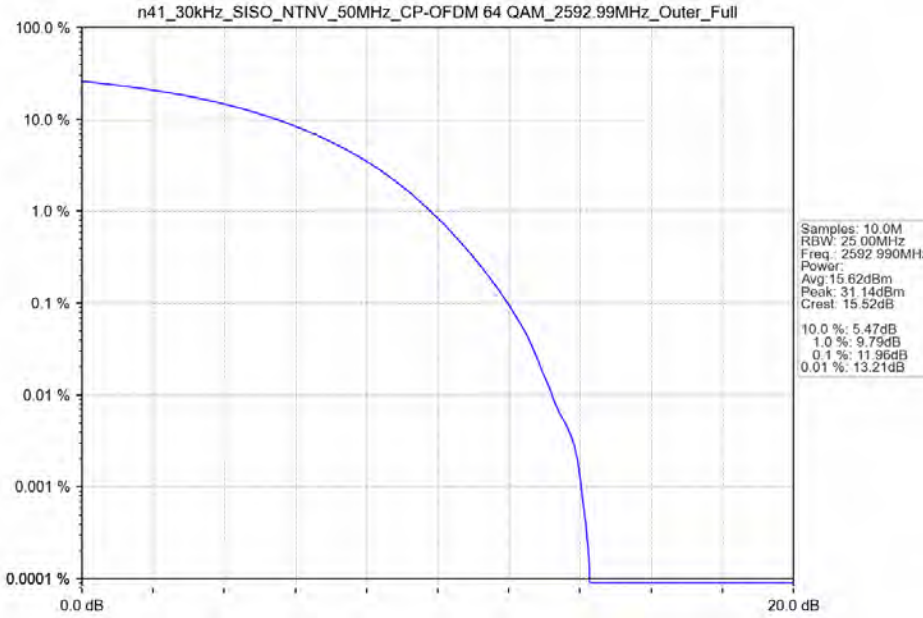
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2664.99MHz_Outer_Full



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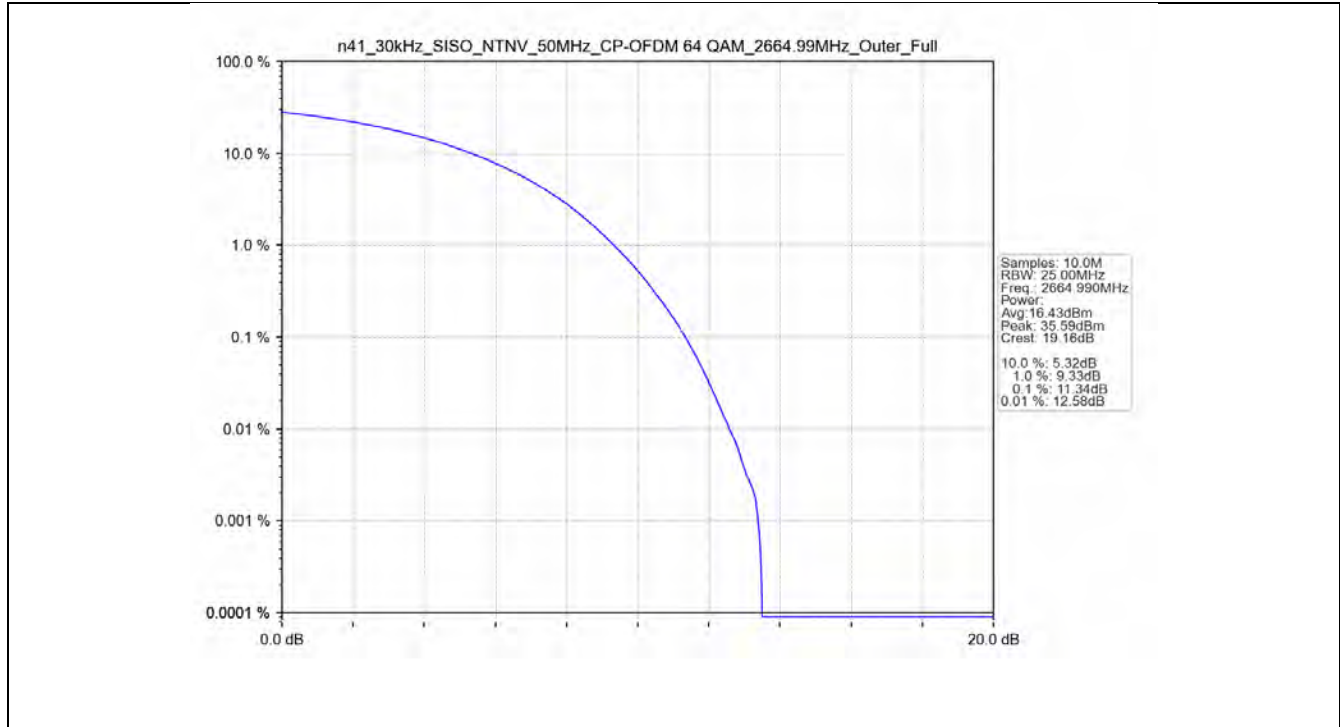


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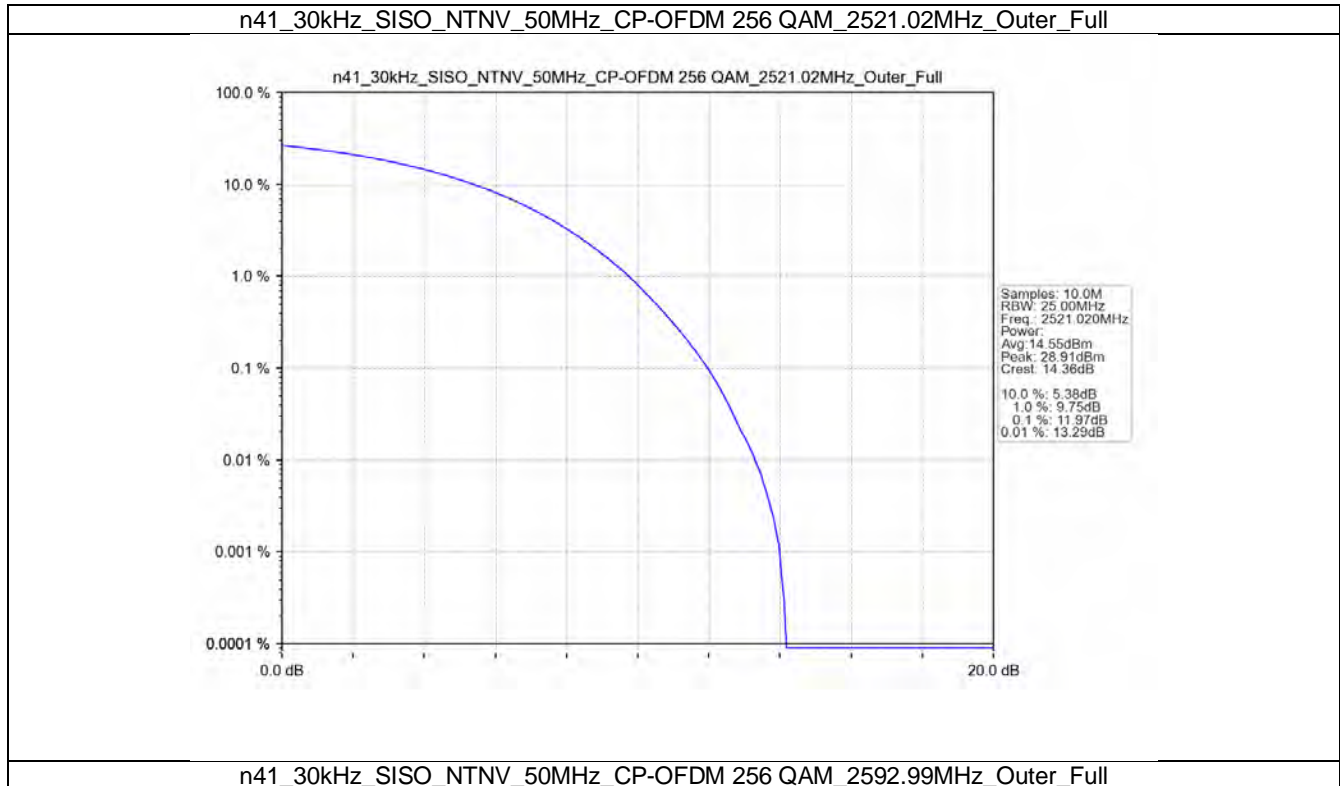


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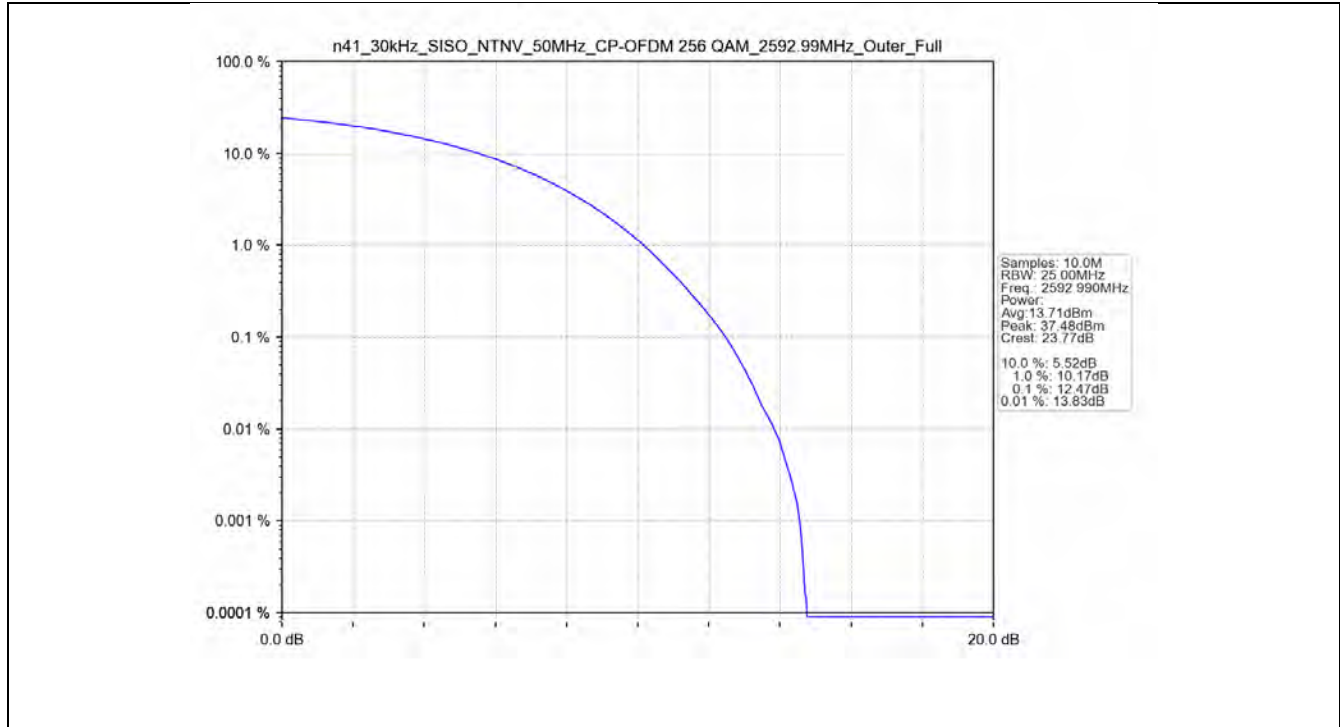


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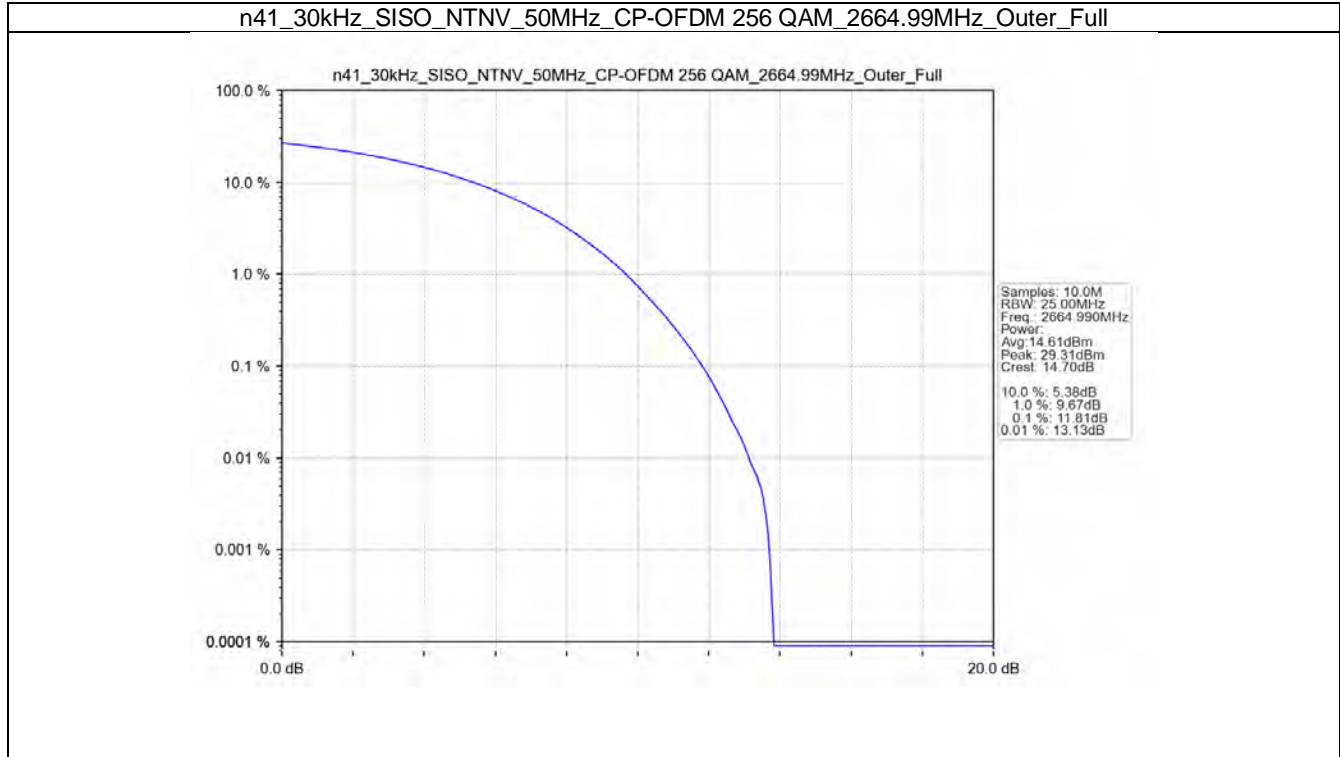


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4.5 30k_SISO_60MHz_NTNV

4.5.1 Test Result

5G NR n41 SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2526	Outer_Full	10.43	/	/	<=13	Pass
	2592.99	Outer_Full	11.09	/	/	<=13	Pass
	2659.98	Outer_Full	10.42	/	/	<=13	Pass
DFT-s-OFDM QPSK	2526	Outer_Full	10.34	/	/	<=13	Pass
	2592.99	Outer_Full	10.61	/	/	<=13	Pass
	2659.98	Outer_Full	11.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2526	Outer_Full	10.63	/	/	<=13	Pass
	2592.99	Outer_Full	11.42	/	/	<=13	Pass
	2659.98	Outer_Full	10.61	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2526	Outer_Full	10.81	/	/	<=13	Pass
	2592.99	Outer_Full	10.98	/	/	<=13	Pass
	2659.98	Outer_Full	10.80	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2526	Outer_Full	10.66	/	/	<=13	Pass
	2592.99	Outer_Full	11.65	/	/	<=13	Pass
	2659.98	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM QPSK	2526	Outer_Full	11.51	/	/	<=13	Pass
	2592.99	Outer_Full	11.59	/	/	<=13	Pass
	2659.98	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM 16 QAM	2526	Outer_Full	11.68	/	/	<=13	Pass
	2592.99	Outer_Full	11.68	/	/	<=13	Pass
	2659.98	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM 64 QAM	2526	Outer_Full	12.42	/	/	<=13	Pass
	2592.99	Outer_Full	12.05	/	/	<=13	Pass
	2659.98	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 256 QAM	2526	Outer_Full	11.53	/	/	<=13	Pass
	2592.99	Outer_Full	12.15	/	/	<=13	Pass
	2659.98	Outer_Full	11.69	/	/	<=13	Pass



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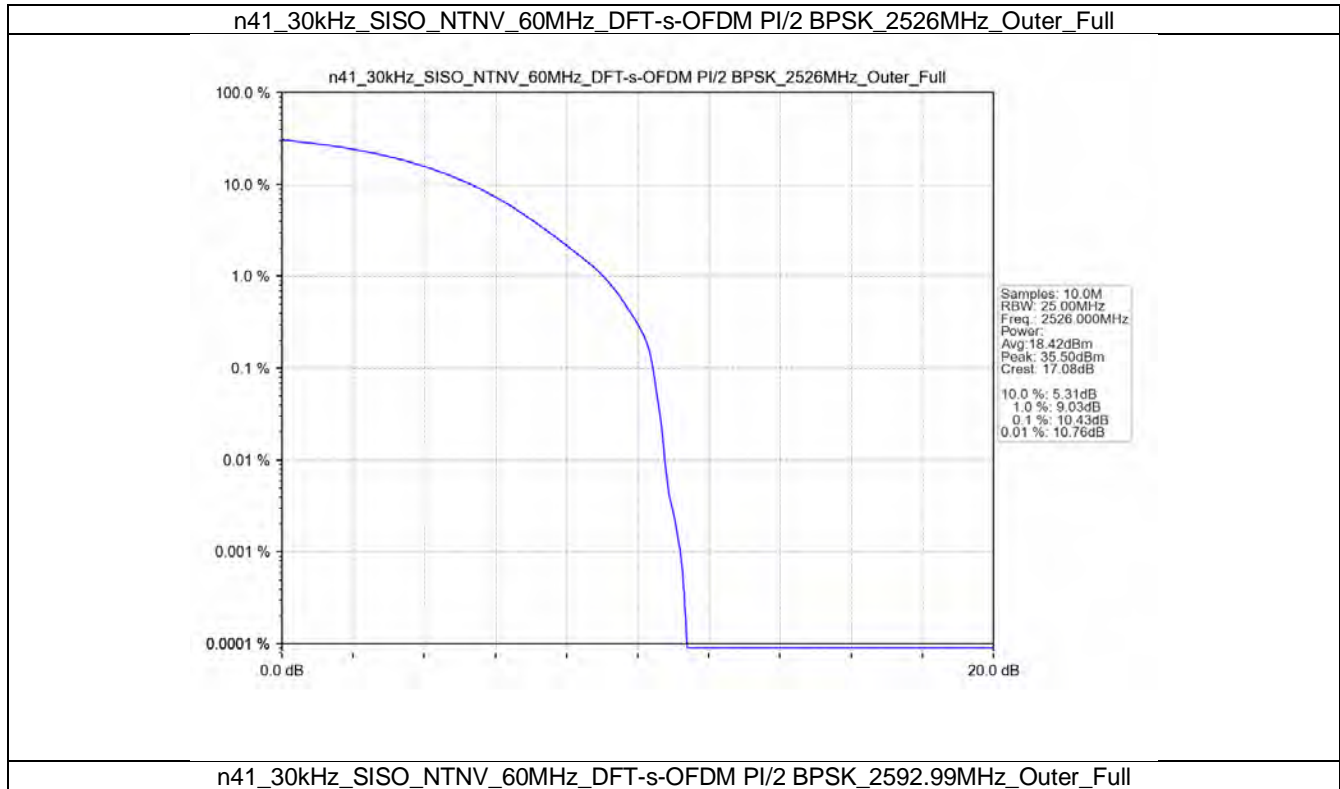
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4.5.2 Test Graph



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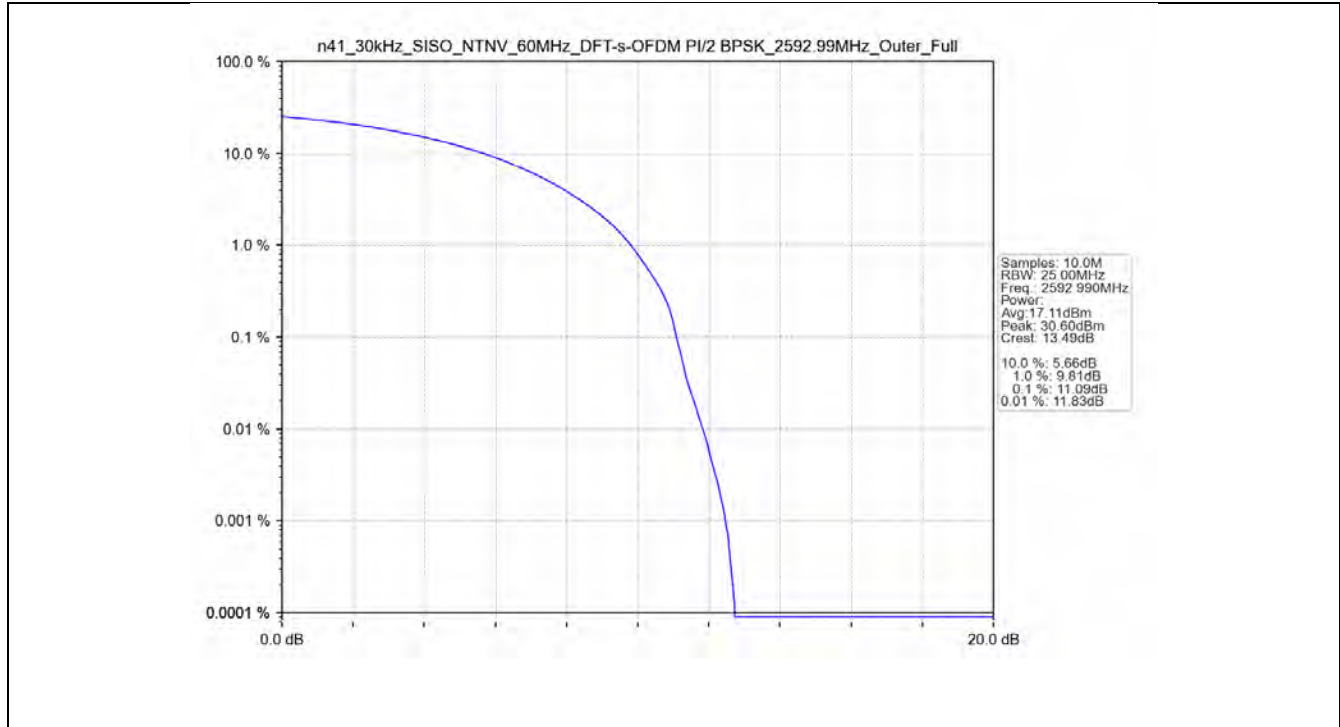


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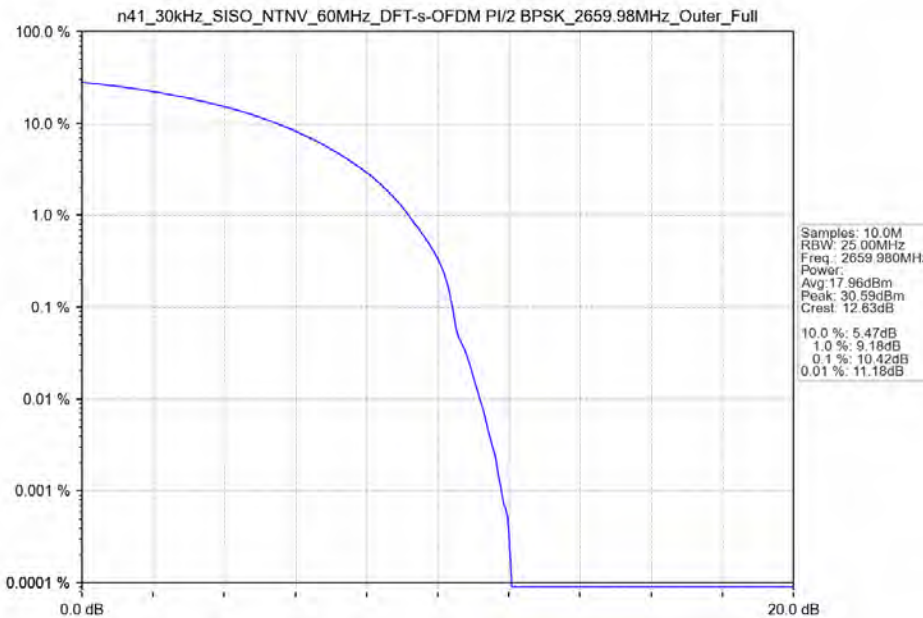
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_2659.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_2526MHz_Outer_Full



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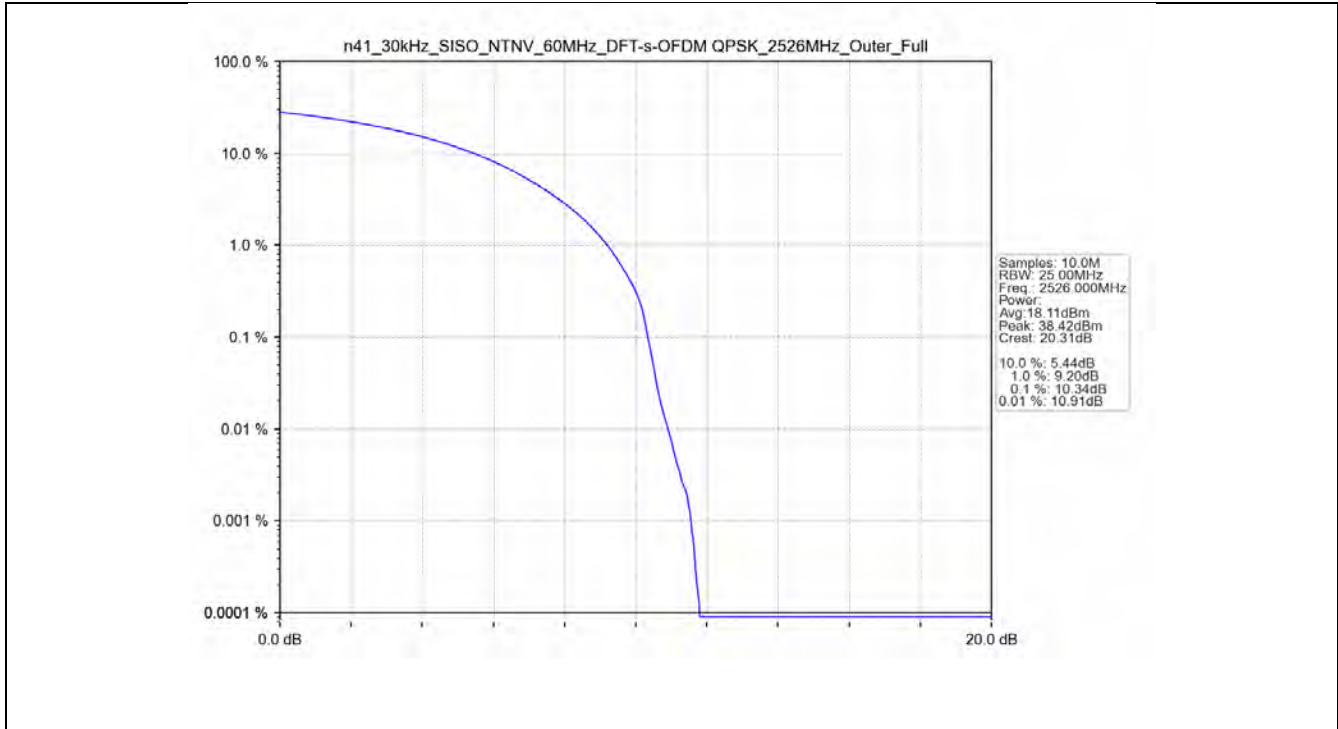


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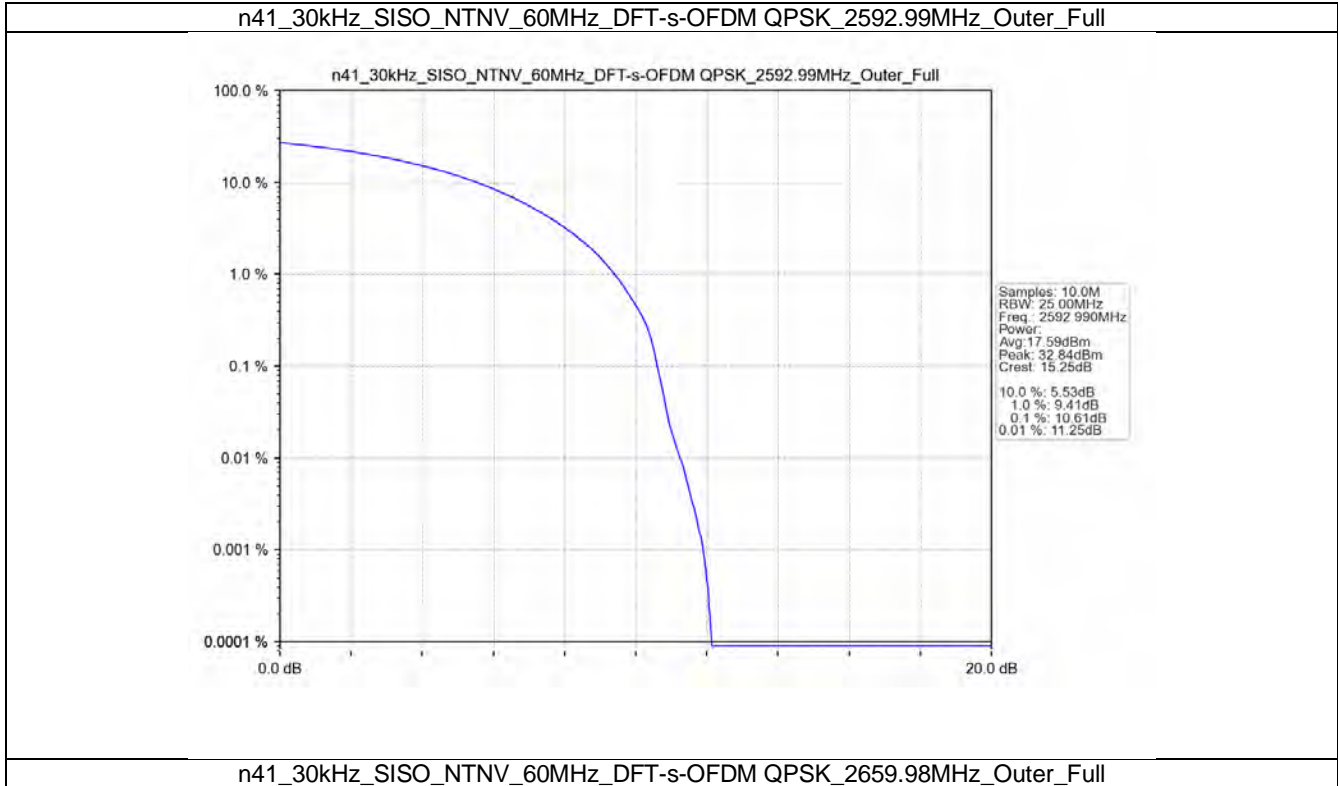


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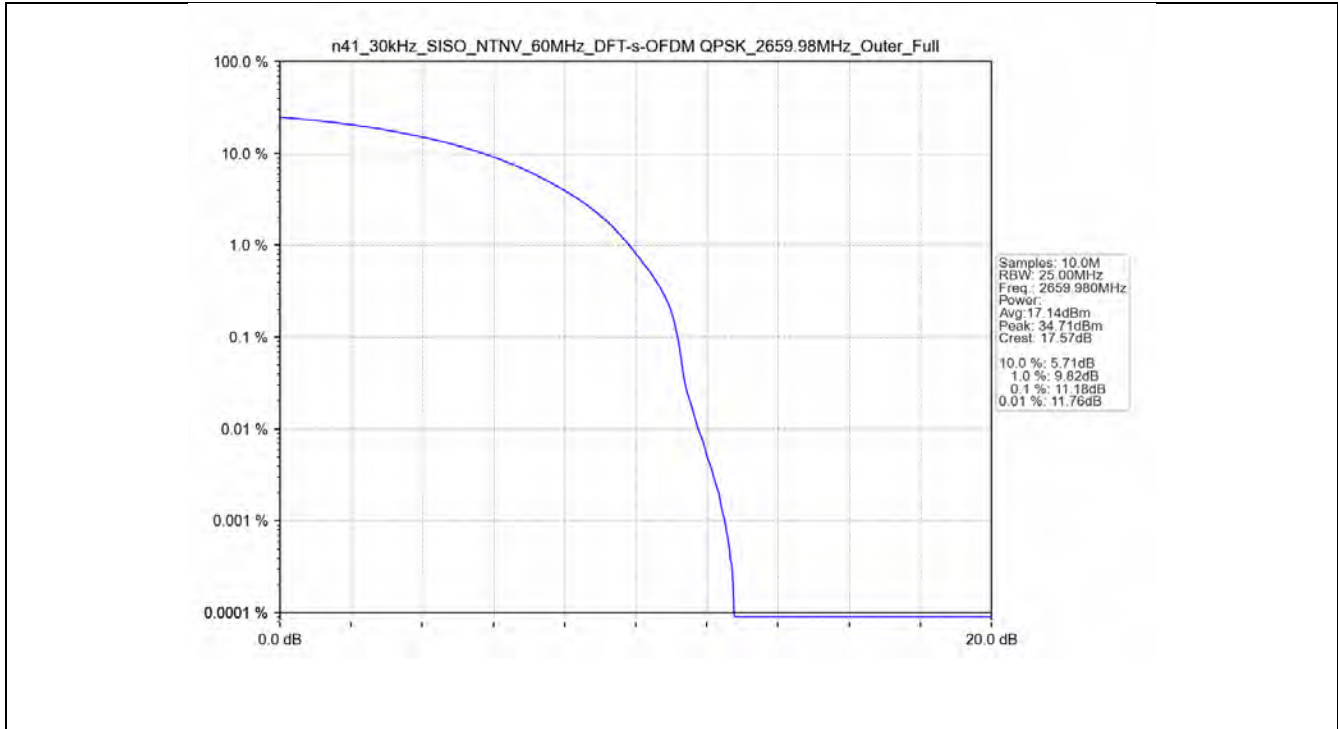


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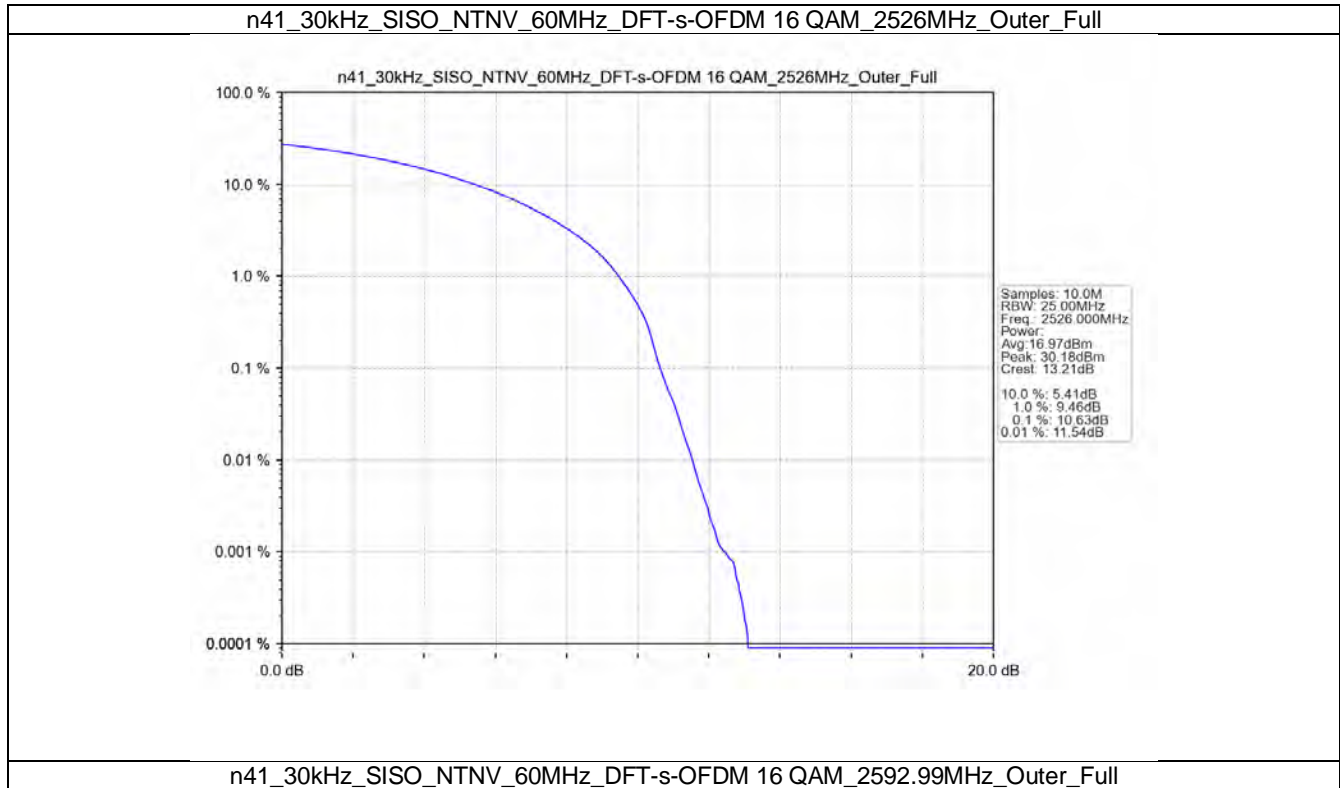


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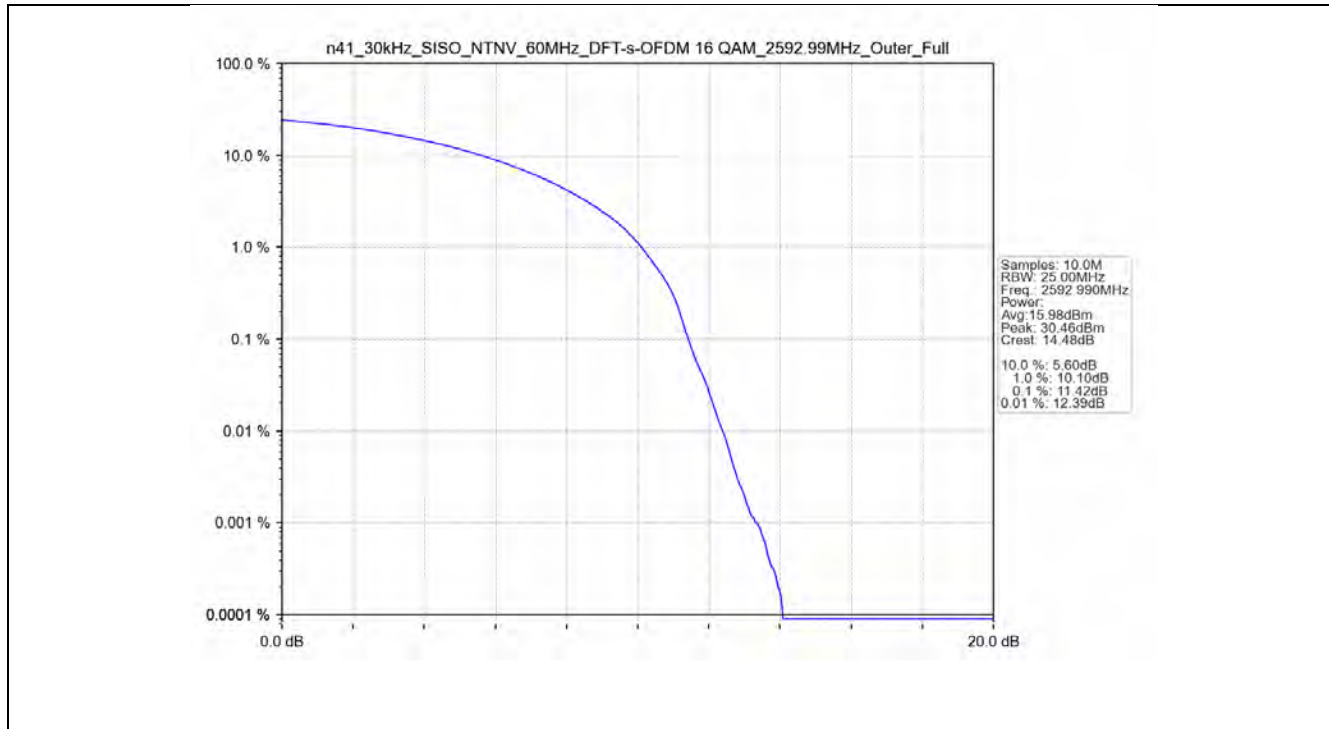
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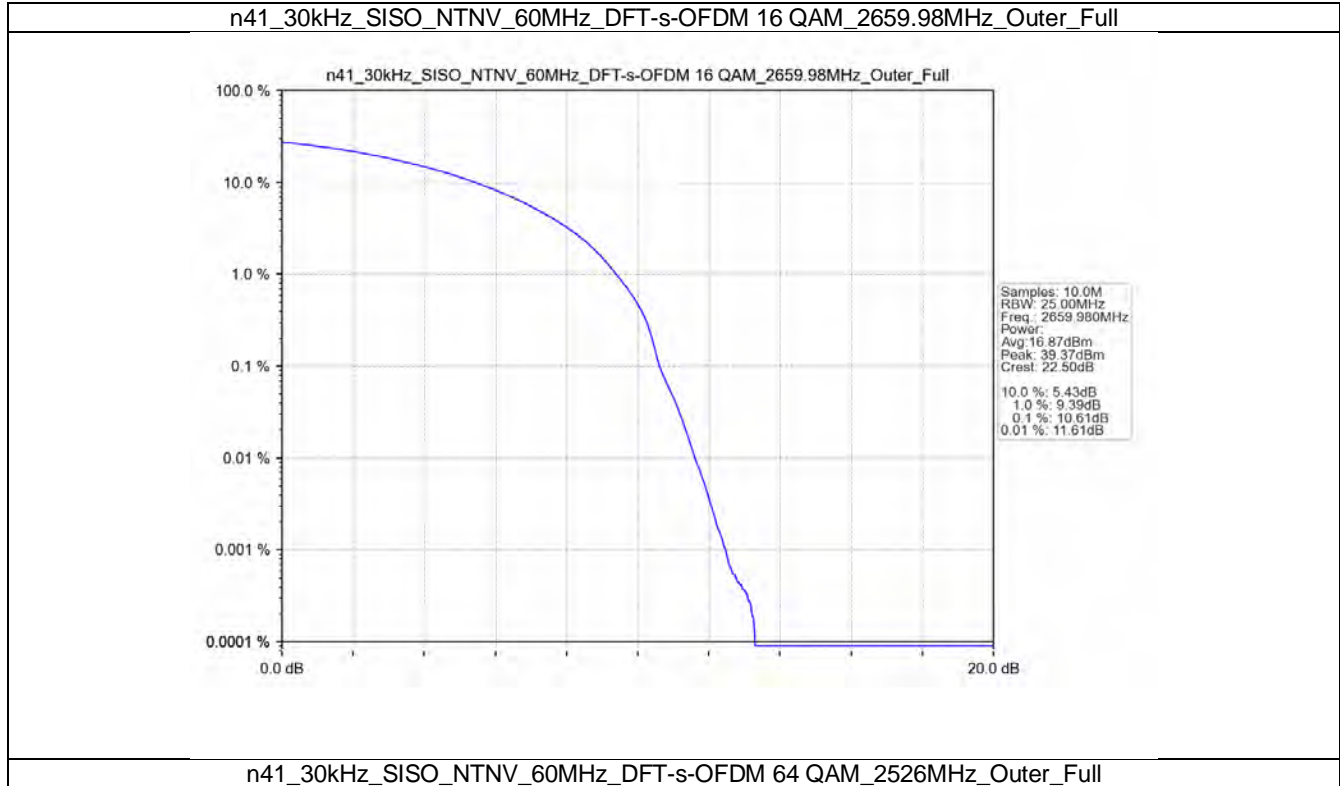


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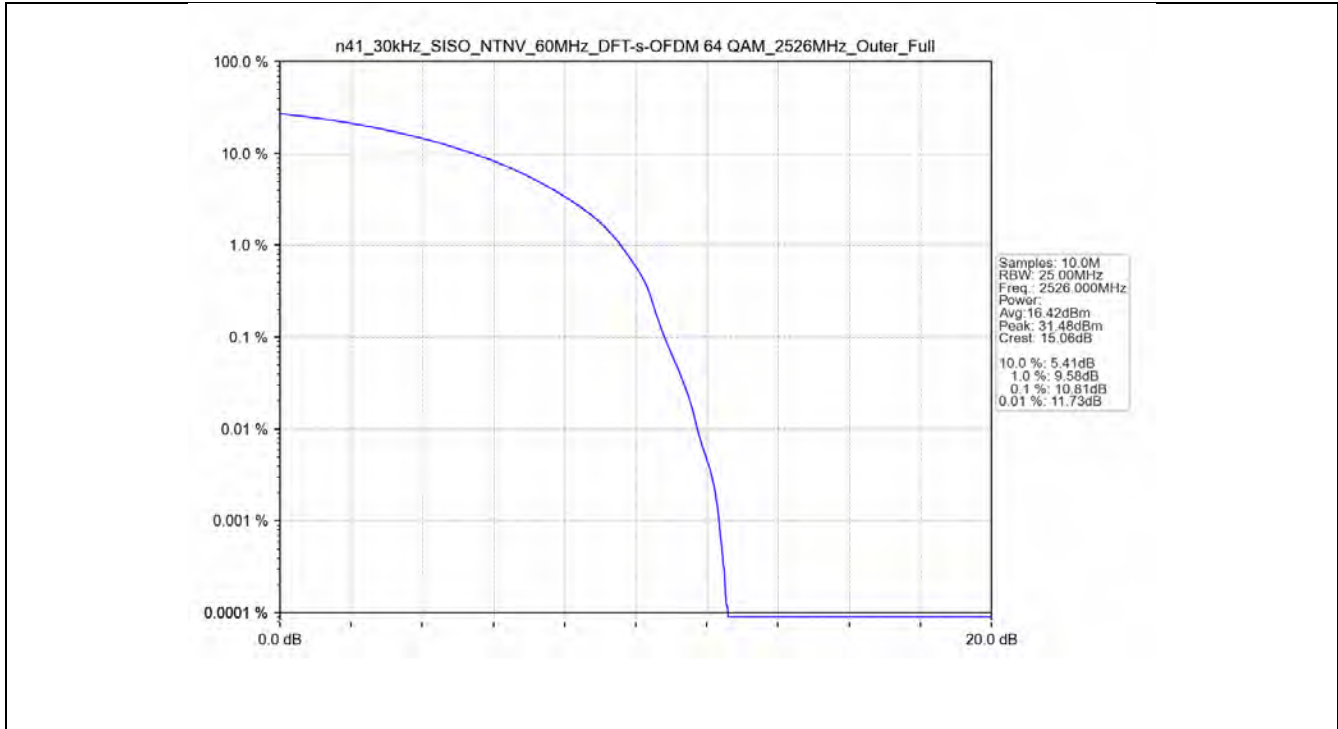


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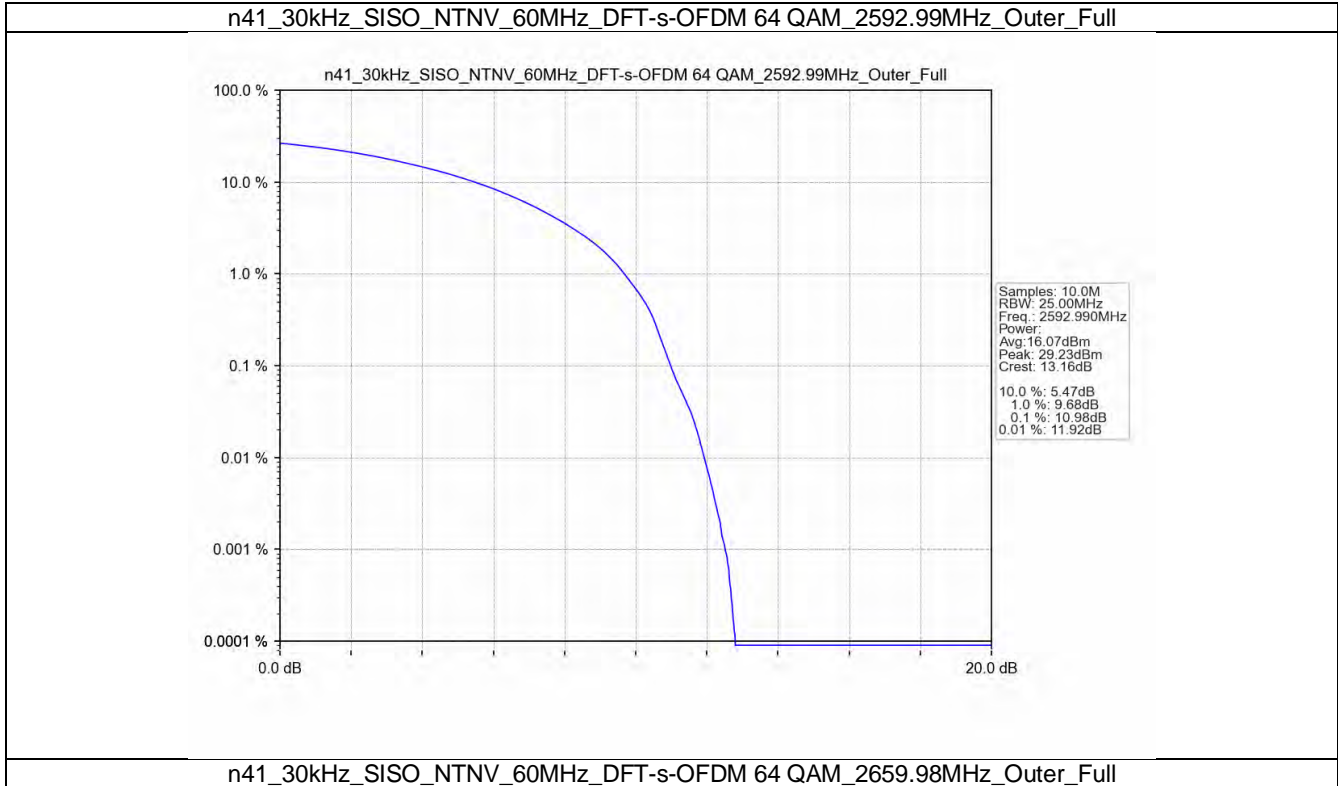


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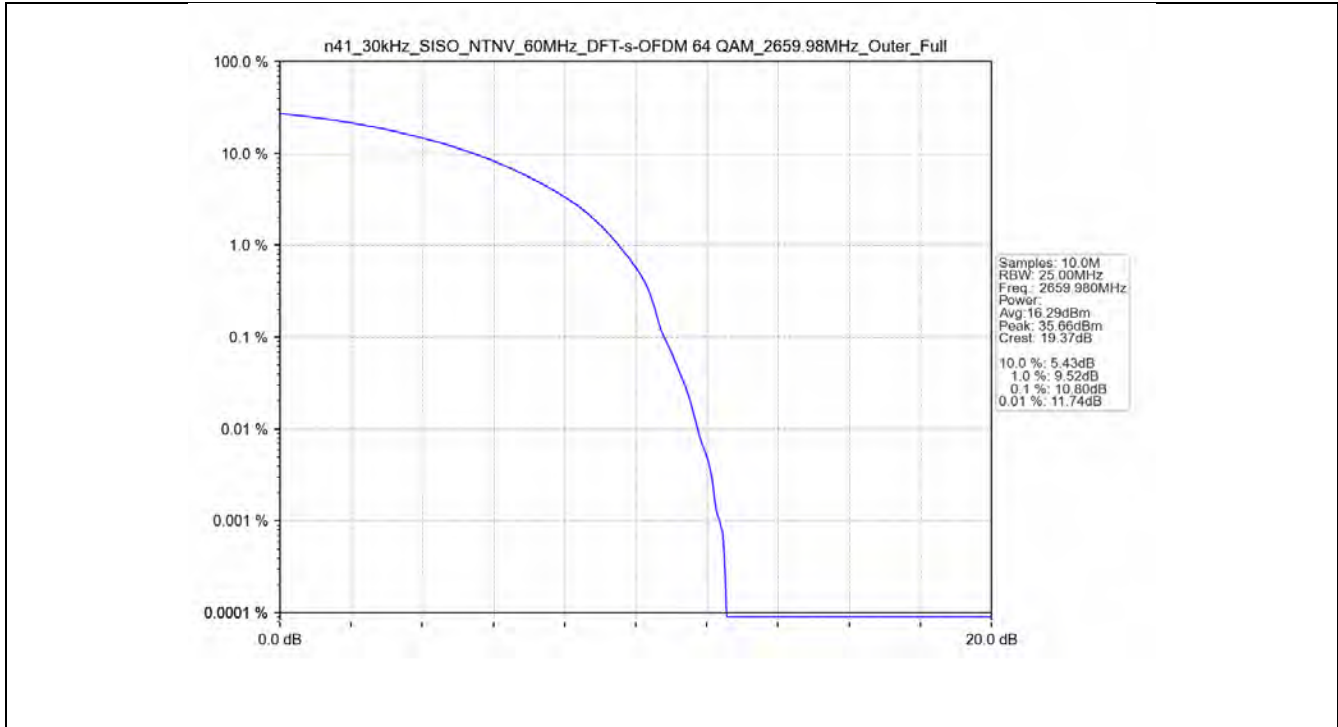


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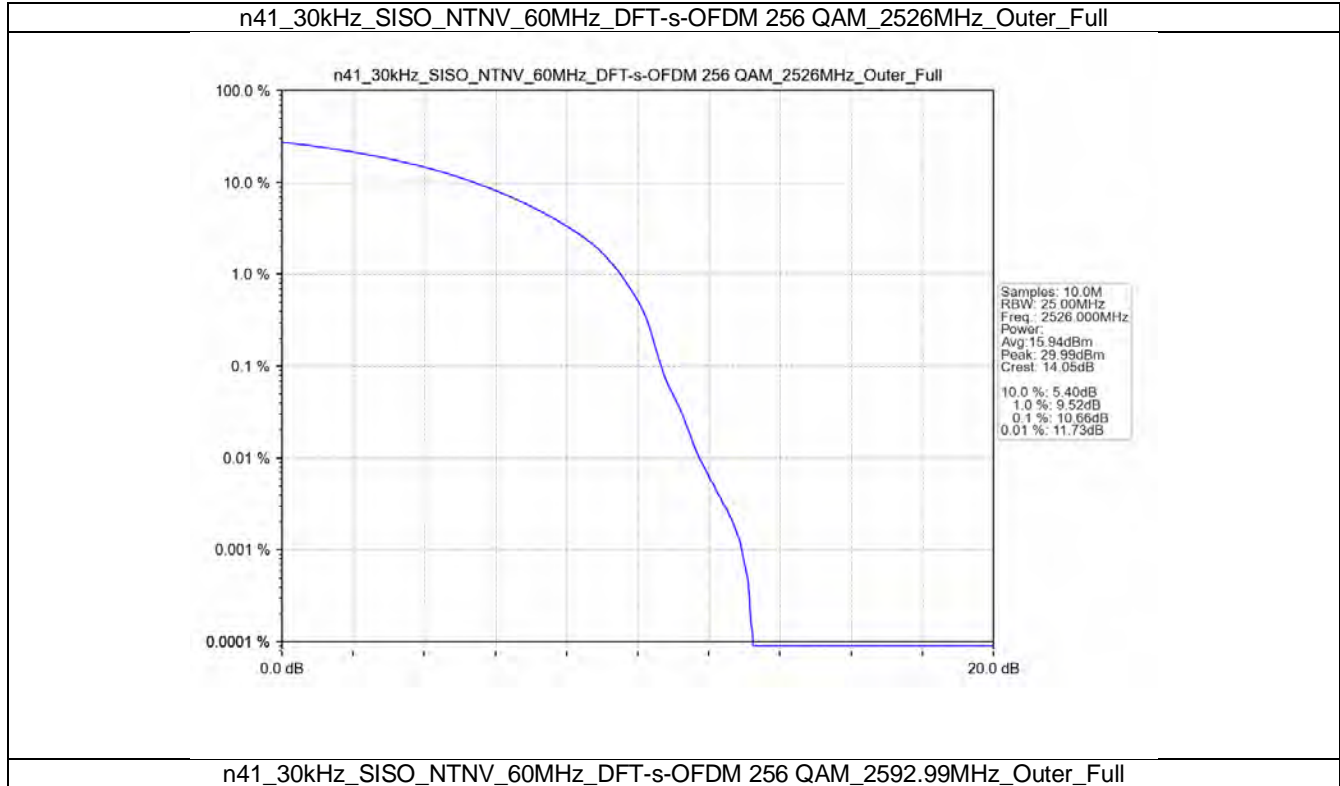


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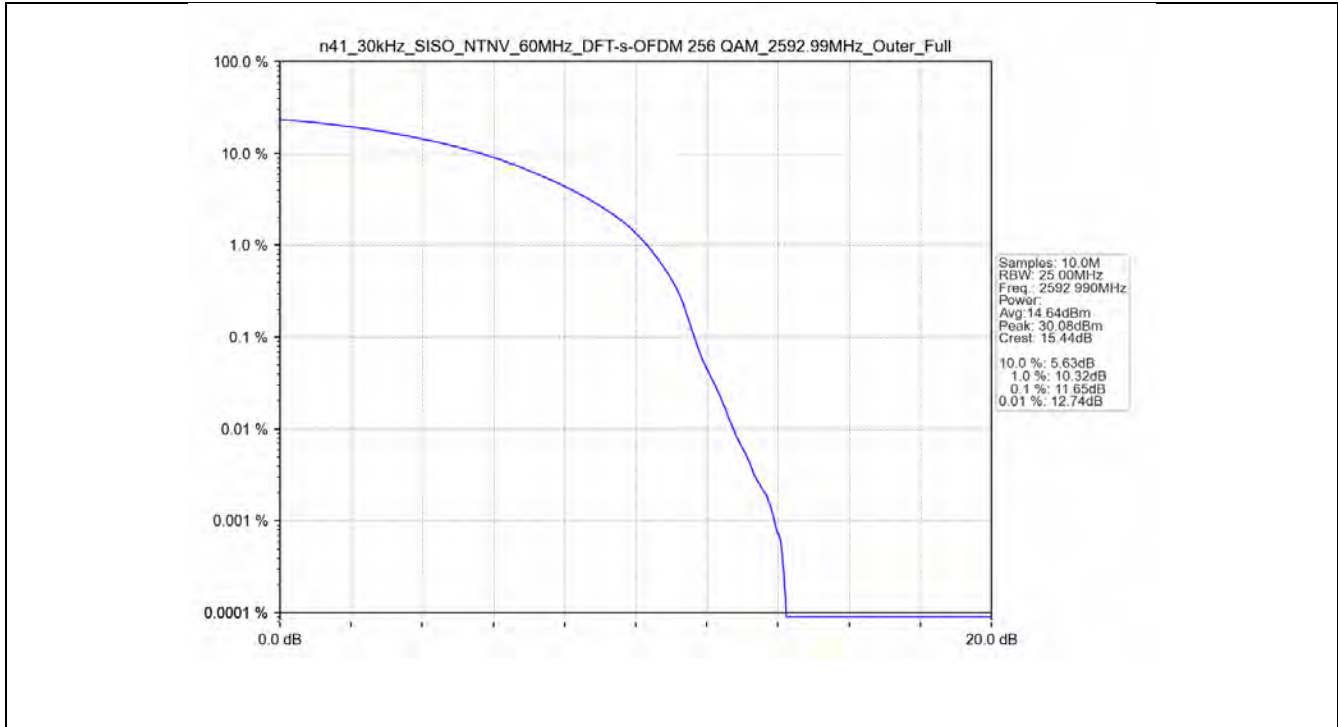


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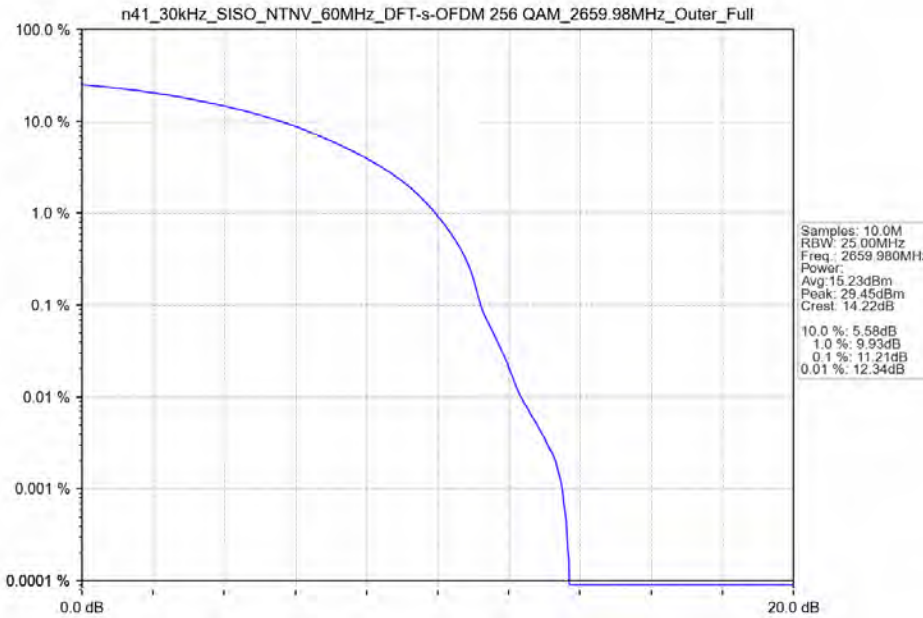
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_2526MHz_Outer_Full



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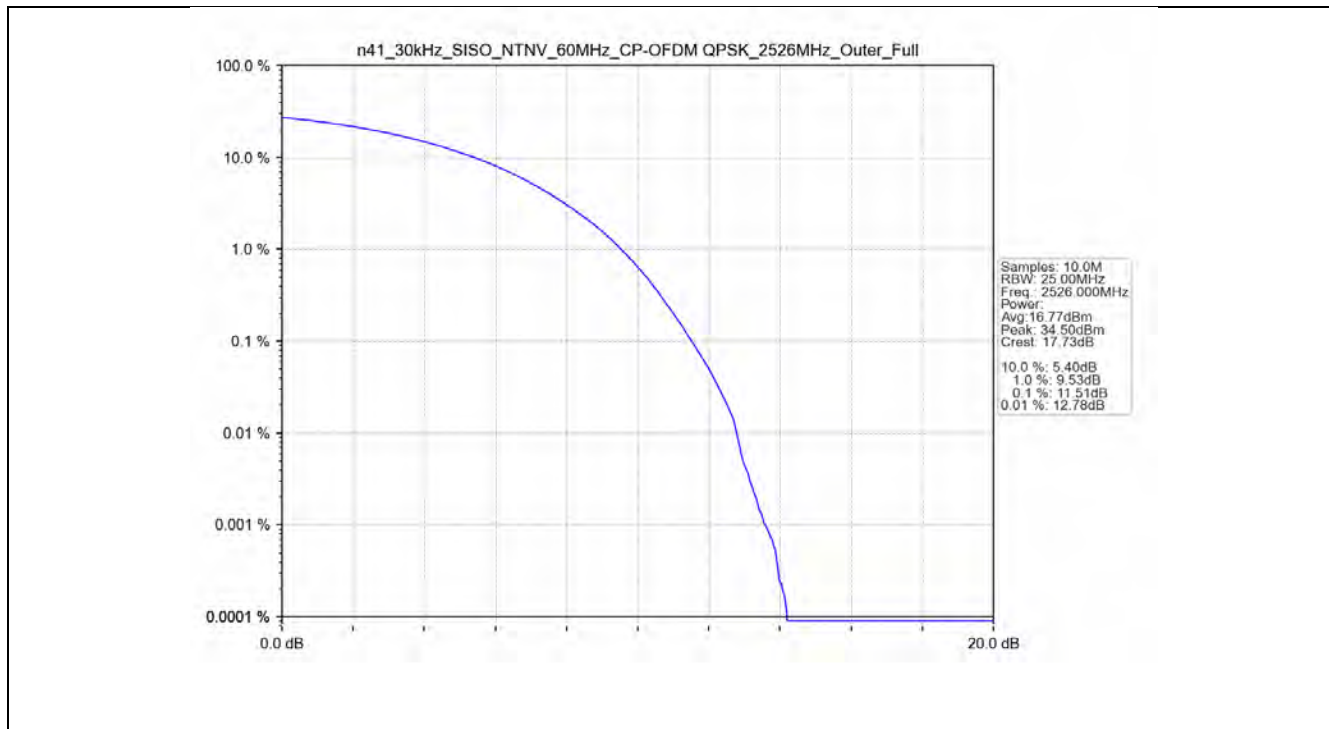
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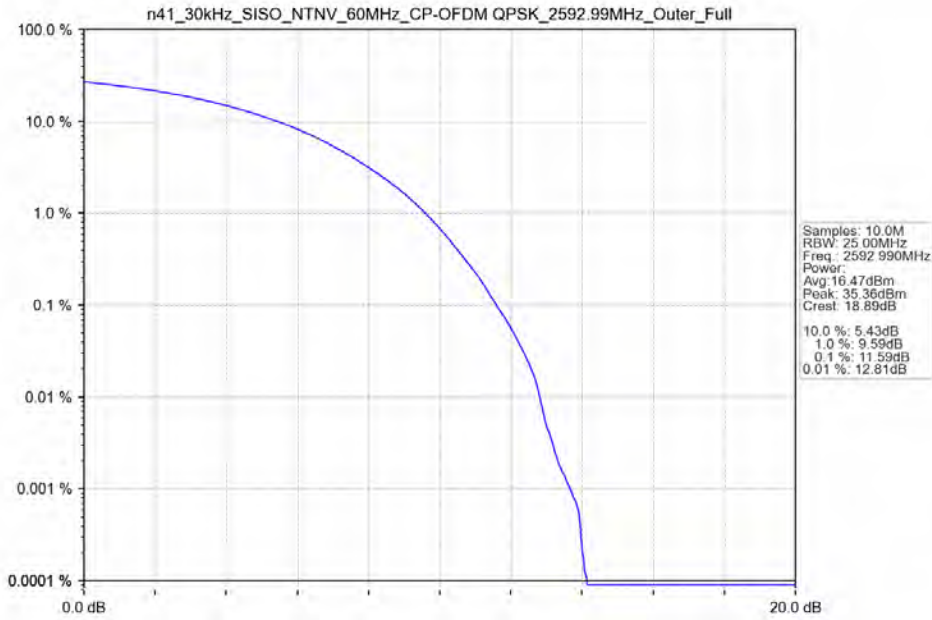
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_2659.98MHz_Outer_Full



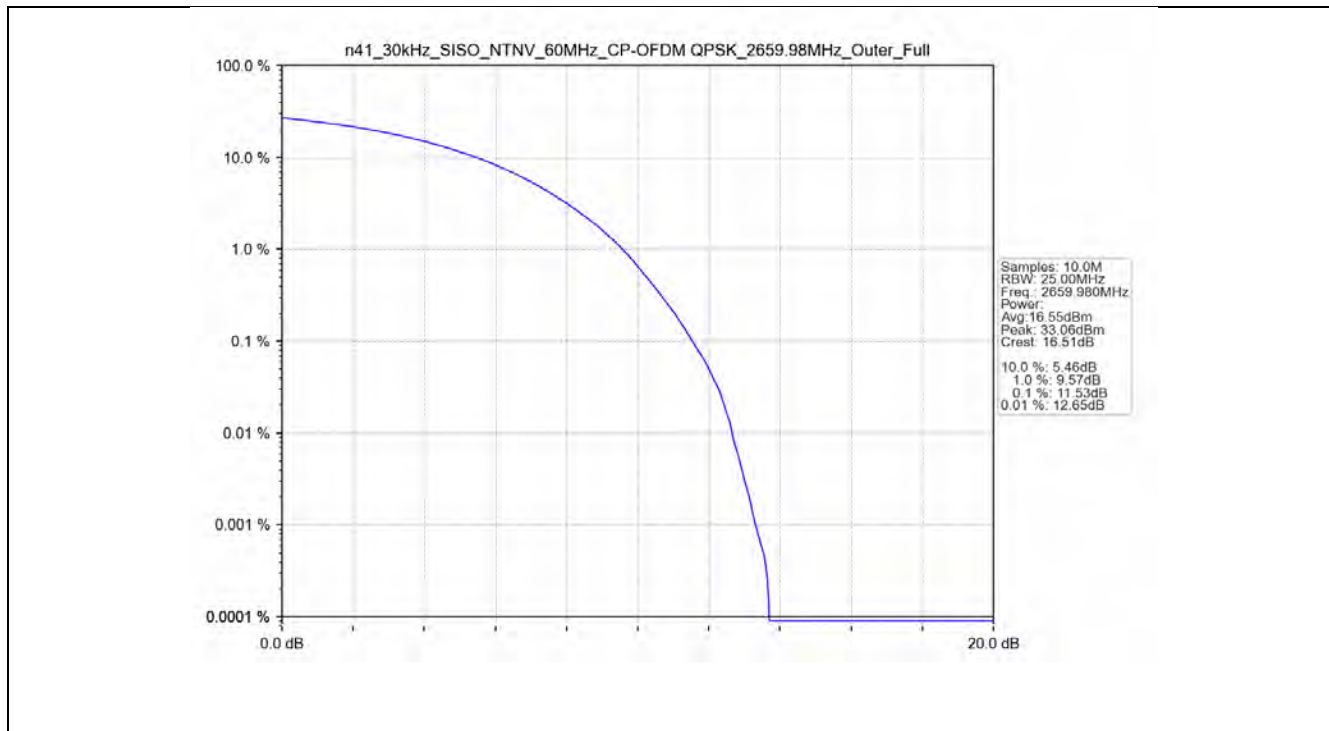
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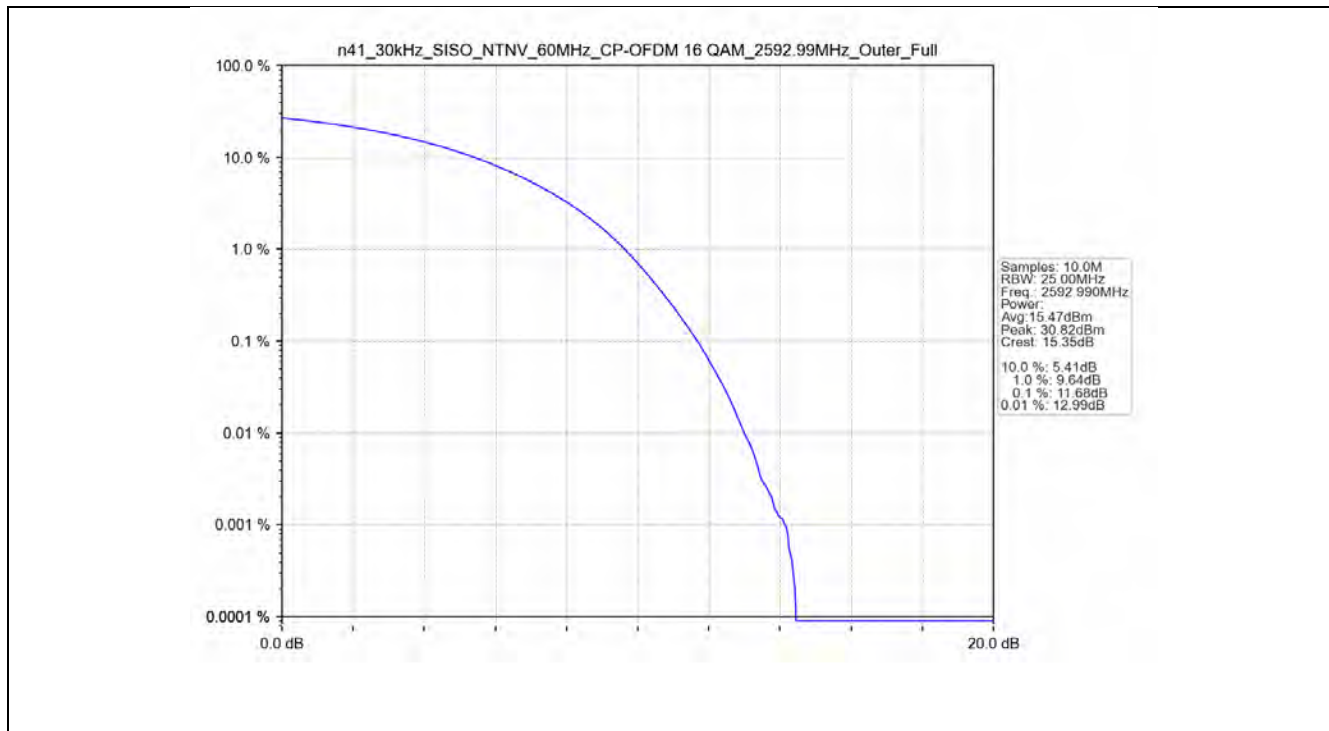
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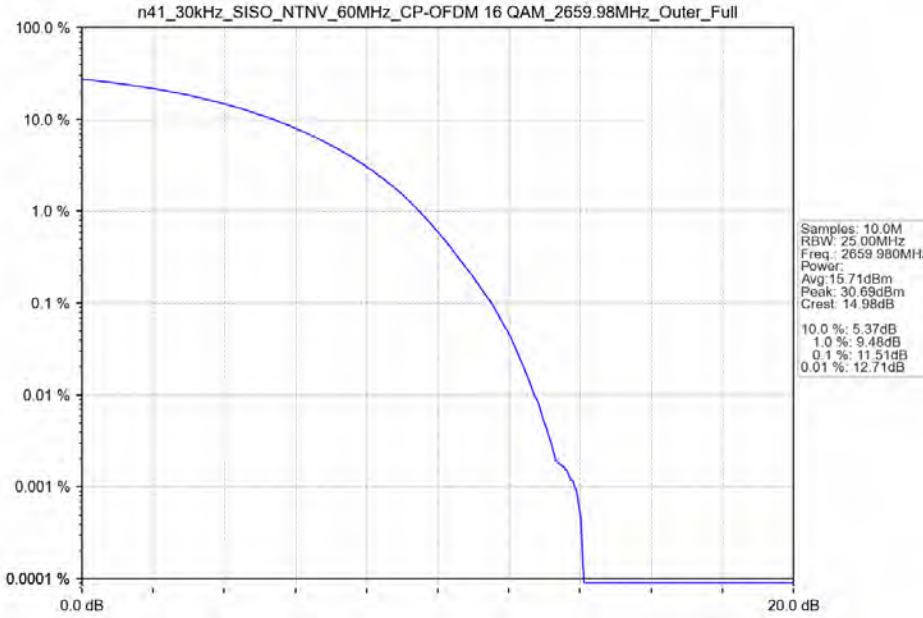
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_2526MHz_Outer_Full



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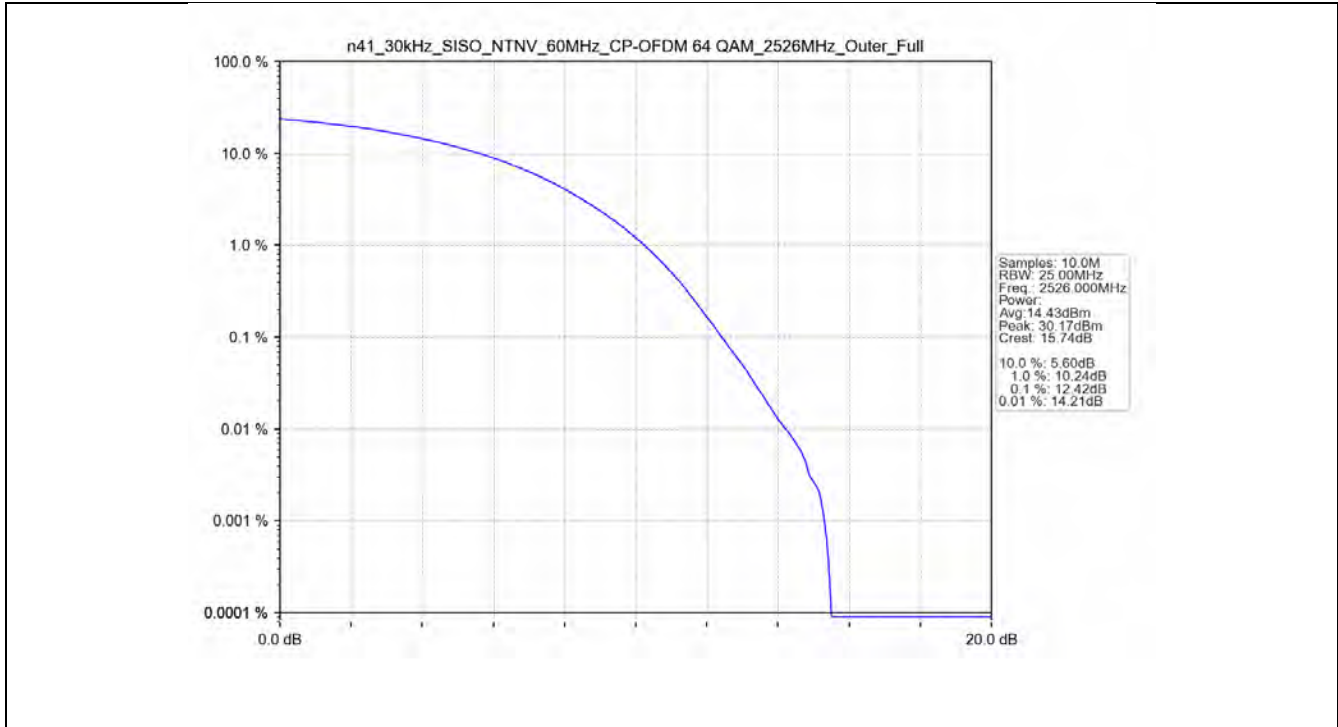


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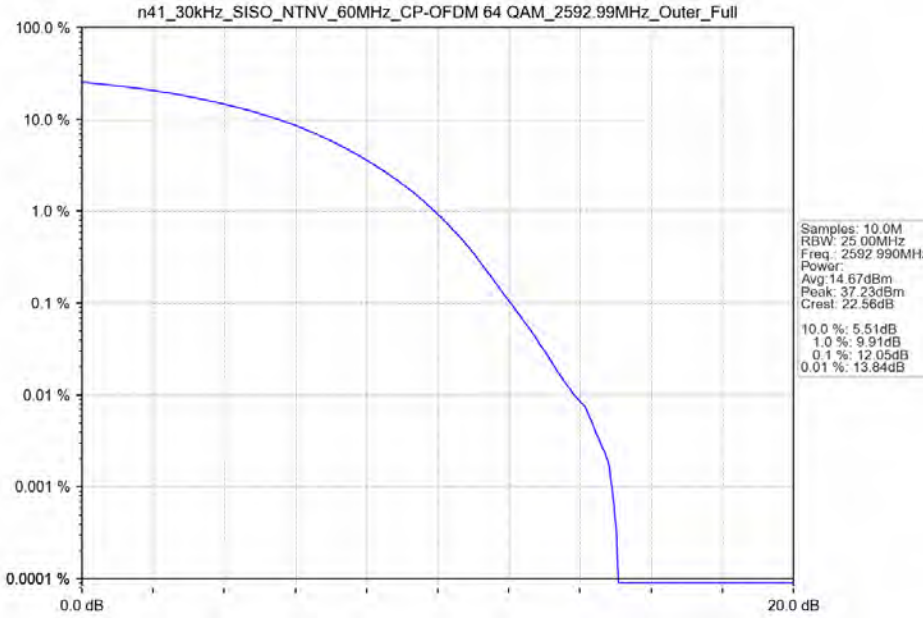
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_2659.98MHz_Outer_Full



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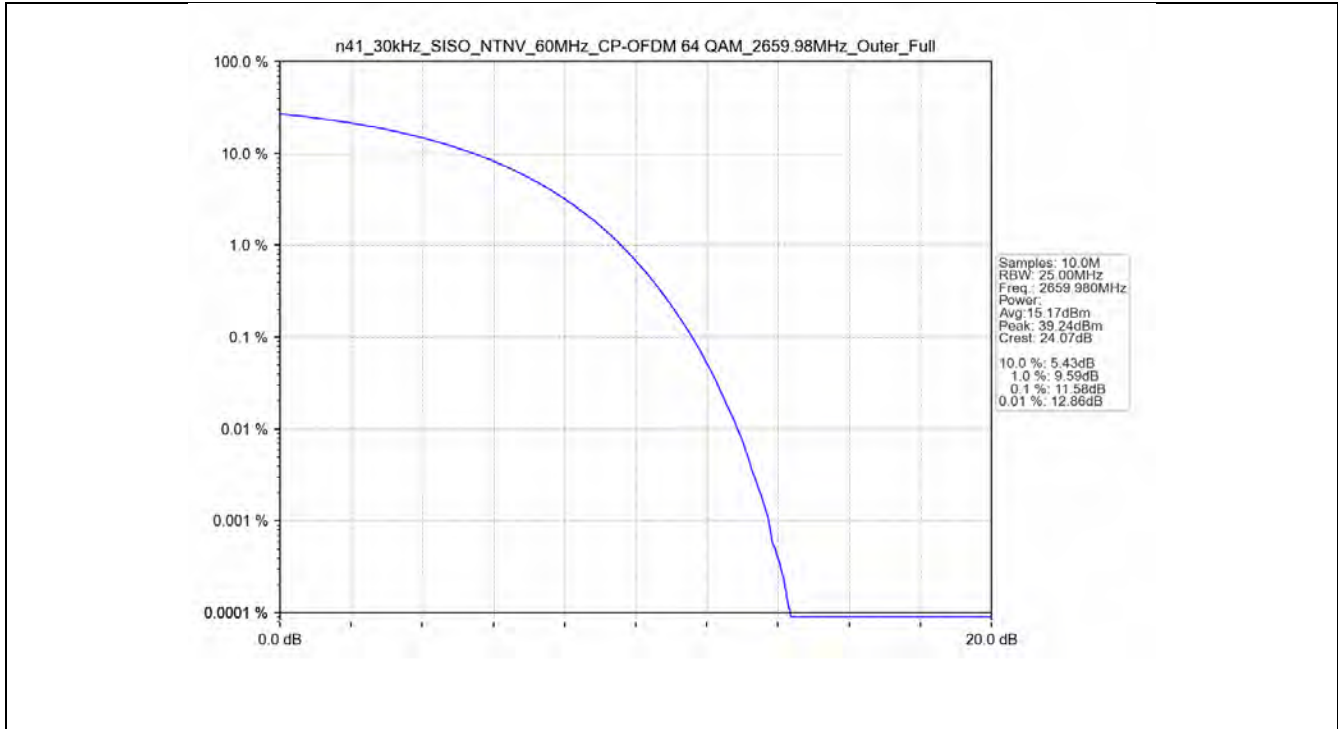


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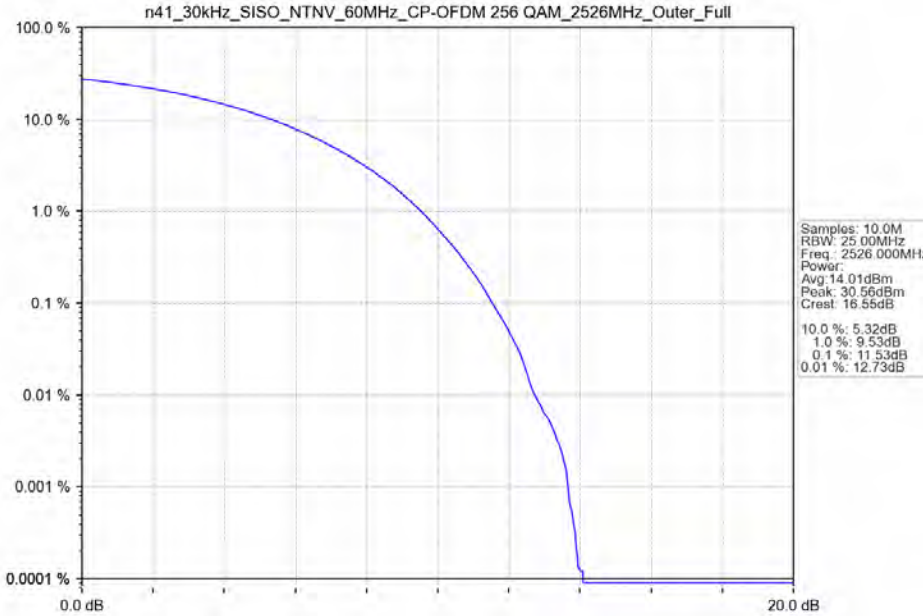
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_2526MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



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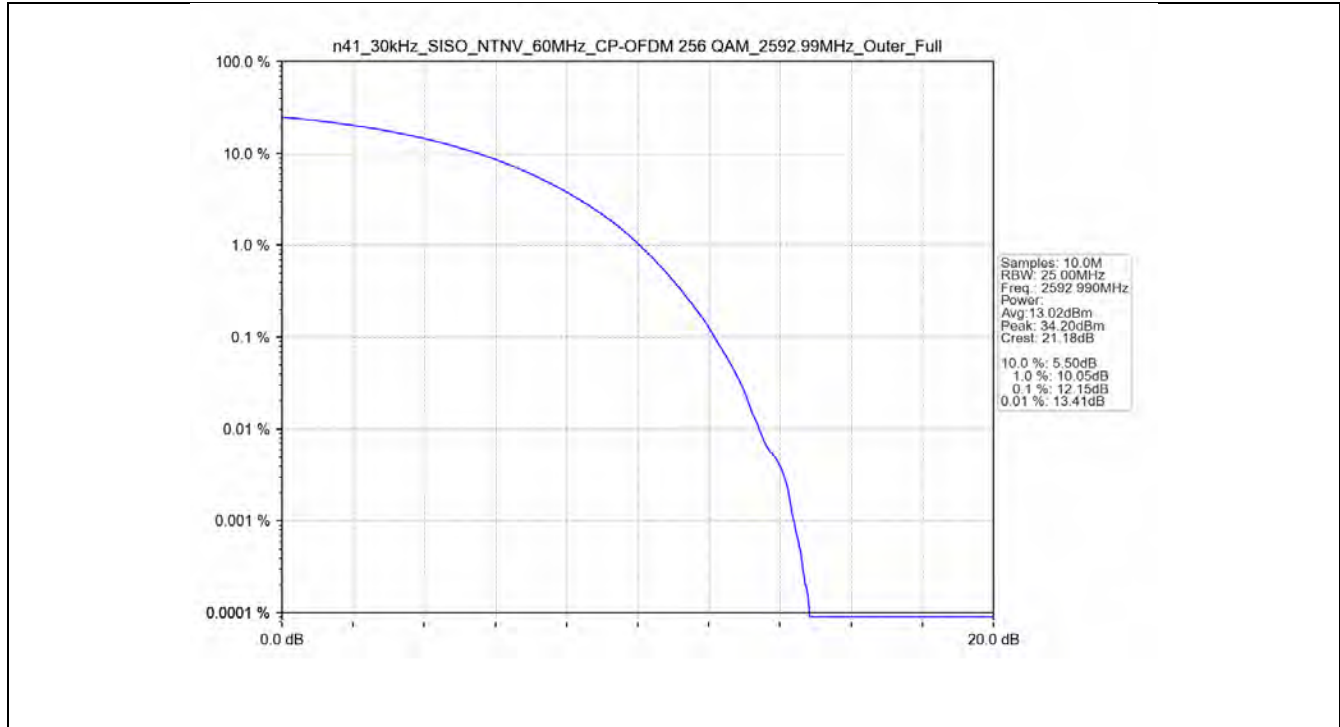


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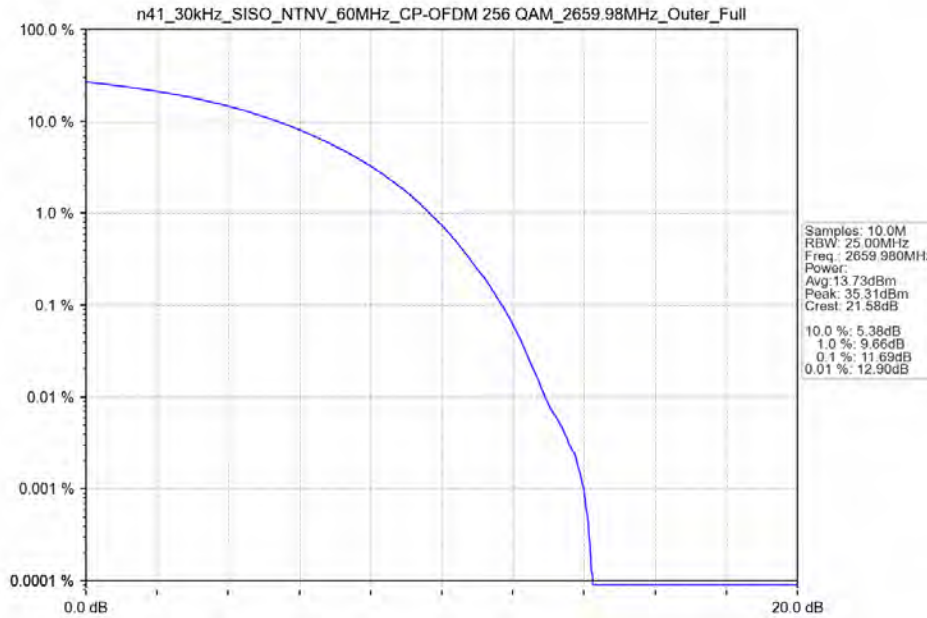
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4.6 30k_SISO_80MHz_NTNV

4.6.1 Test Result

5G NR n41 SCS=30kHz SISO 80MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2536.02	Outer_Full	10.36	/	/	<=13	Pass
	2592.99	Outer_Full	10.66	/	/	<=13	Pass
	2649.99	Outer_Full	10.01	/	/	<=13	Pass
DFT-s-OFDM QPSK	2536.02	Outer_Full	10.81	/	/	<=13	Pass
	2592.99	Outer_Full	10.73	/	/	<=13	Pass
	2649.99	Outer_Full	10.74	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2536.02	Outer_Full	10.91	/	/	<=13	Pass
	2592.99	Outer_Full	11.09	/	/	<=13	Pass
	2649.99	Outer_Full	10.85	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2536.02	Outer_Full	11.01	/	/	<=13	Pass
	2592.99	Outer_Full	11.66	/	/	<=13	Pass
	2649.99	Outer_Full	10.83	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2536.02	Outer_Full	10.92	/	/	<=13	Pass
	2592.99	Outer_Full	11.47	/	/	<=13	Pass
	2649.99	Outer_Full	11.30	/	/	<=13	Pass
CP-OFDM QPSK	2536.02	Outer_Full	12.31	/	/	<=13	Pass
	2592.99	Outer_Full	11.50	/	/	<=13	Pass
	2649.99	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 16 QAM	2536.02	Outer_Full	11.94	/	/	<=13	Pass
	2592.99	Outer_Full	11.60	/	/	<=13	Pass
	2649.99	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	2536.02	Outer_Full	11.52	/	/	<=13	Pass
	2592.99	Outer_Full	11.69	/	/	<=13	Pass
	2649.99	Outer_Full	11.19	/	/	<=13	Pass
CP-OFDM 256 QAM	2536.02	Outer_Full	12.15	/	/	<=13	Pass
	2592.99	Outer_Full	12.18	/	/	<=13	Pass
	2649.99	Outer_Full	11.94	/	/	<=13	Pass



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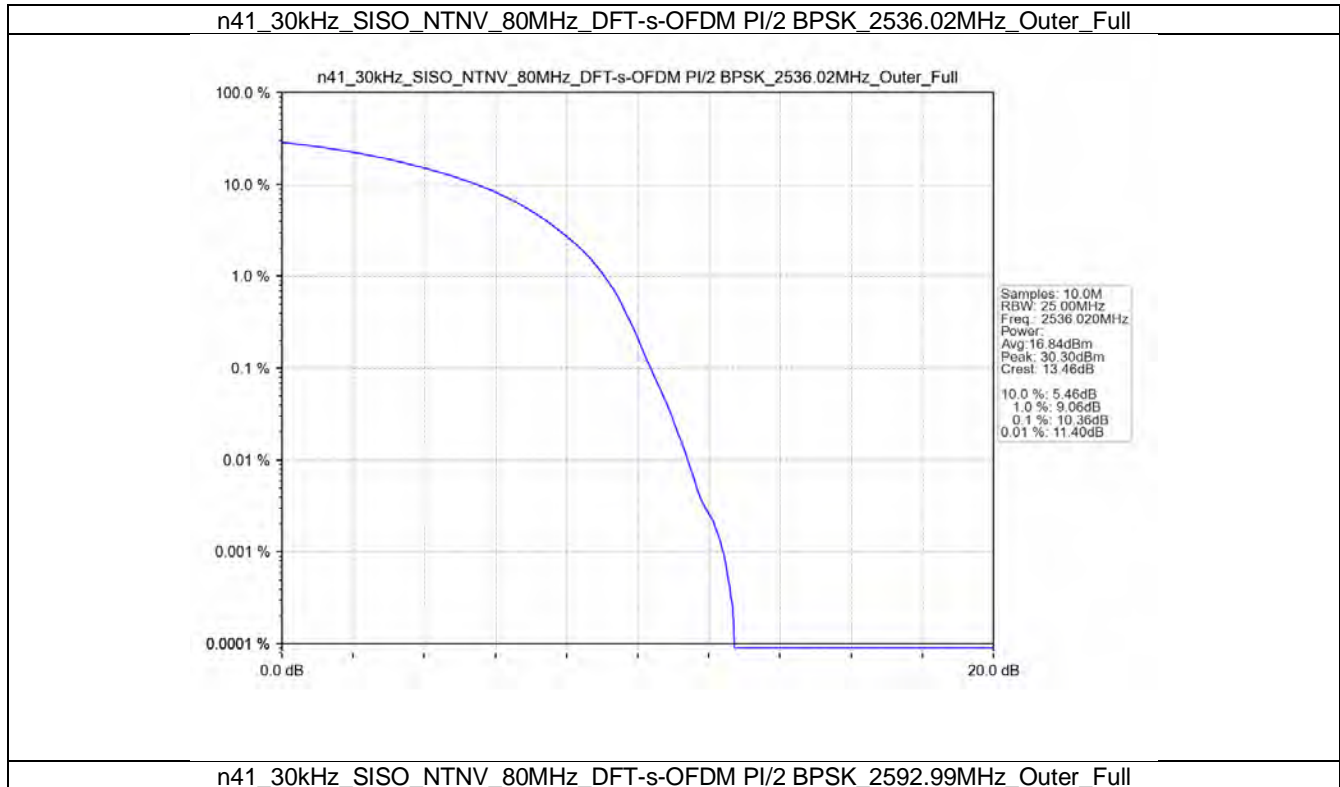
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4.6.2 Test Graph



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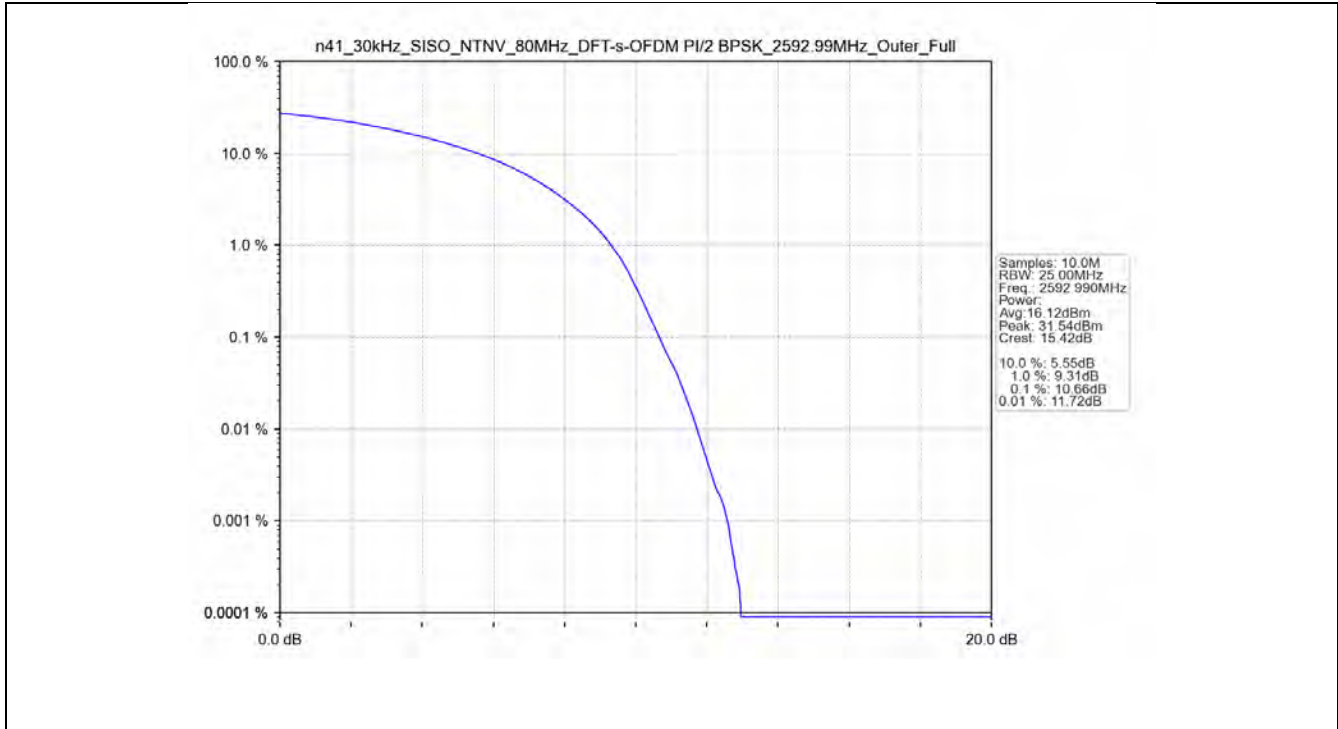


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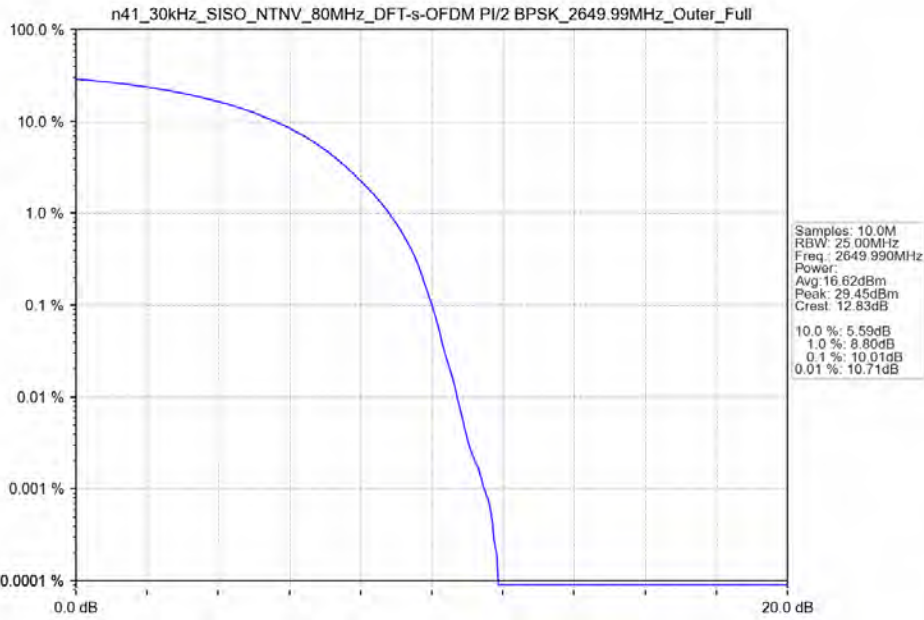
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_2536.02MHz_Outer_Full



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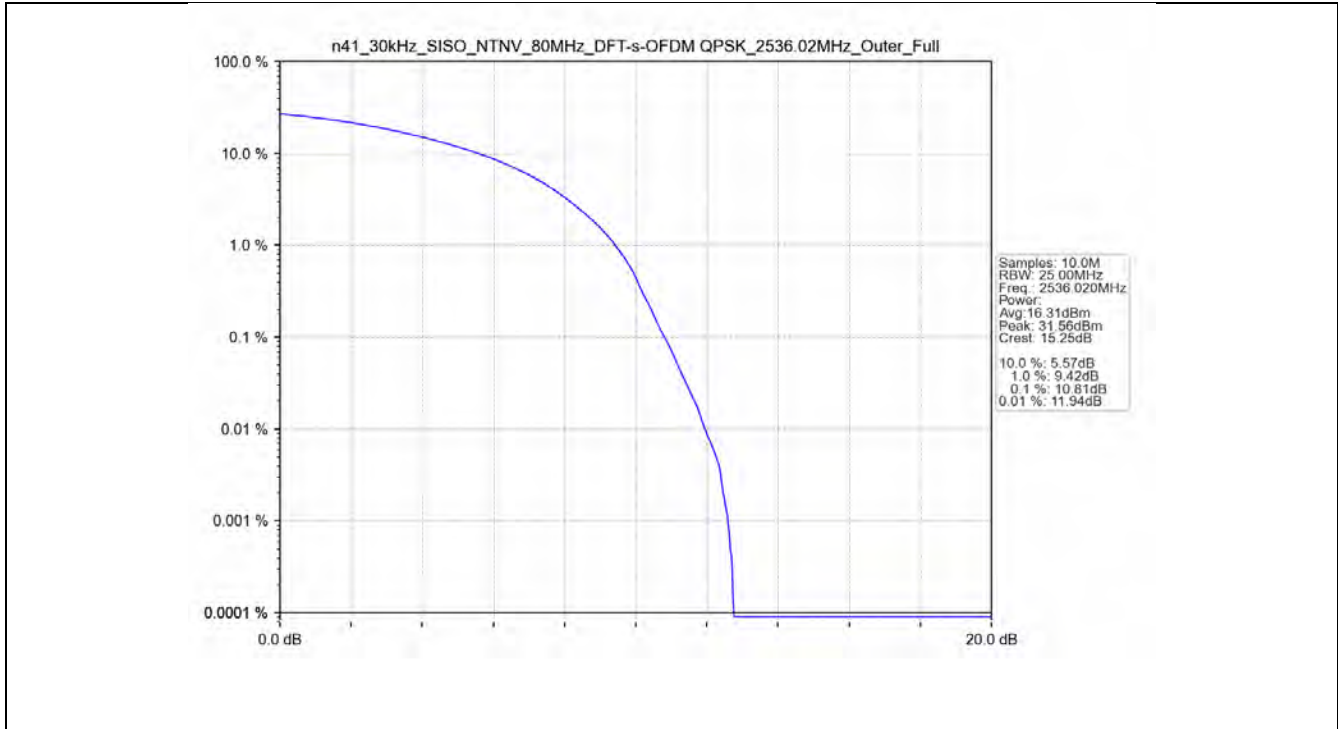


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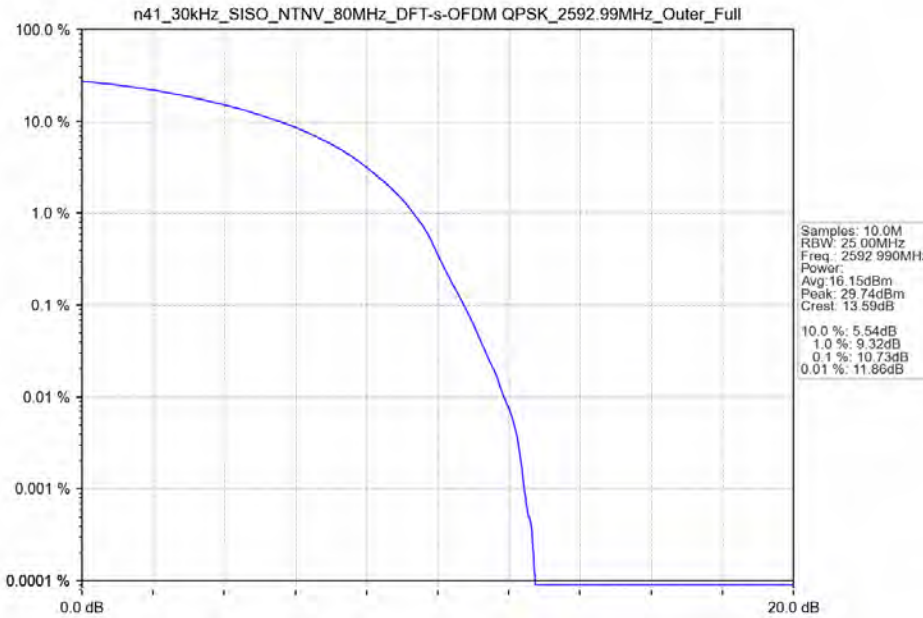
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_2649.99MHz_Outer_Full



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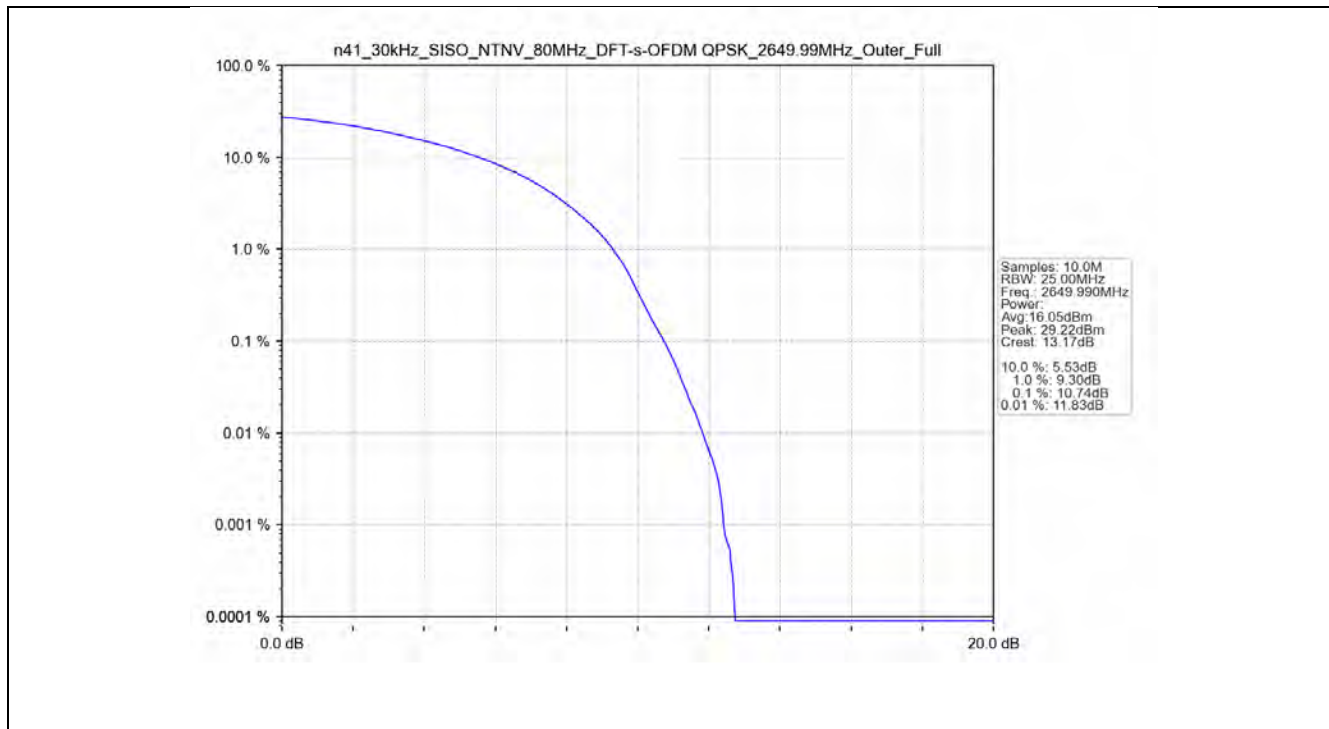
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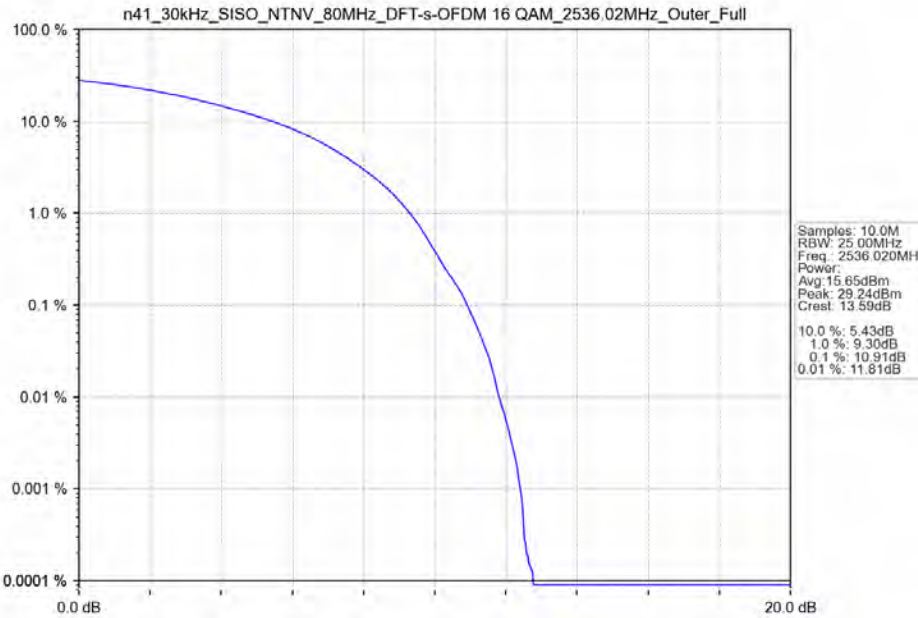
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_2536.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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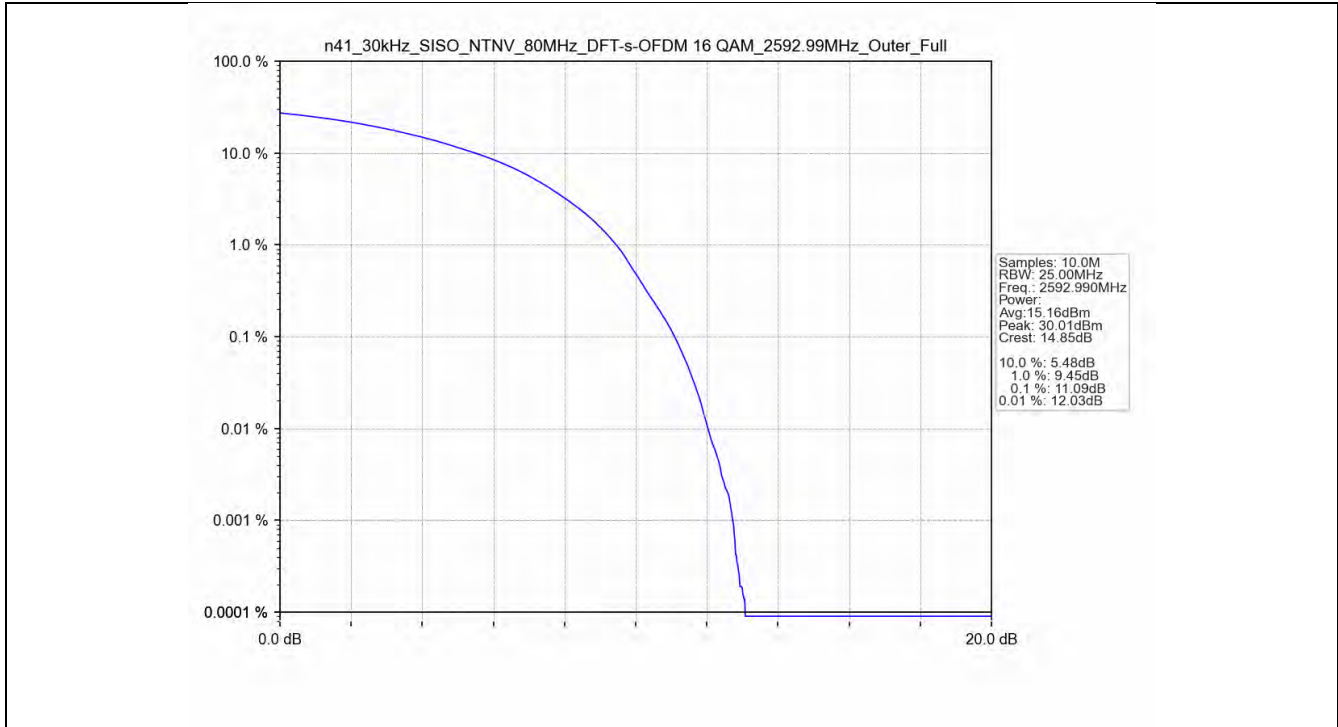


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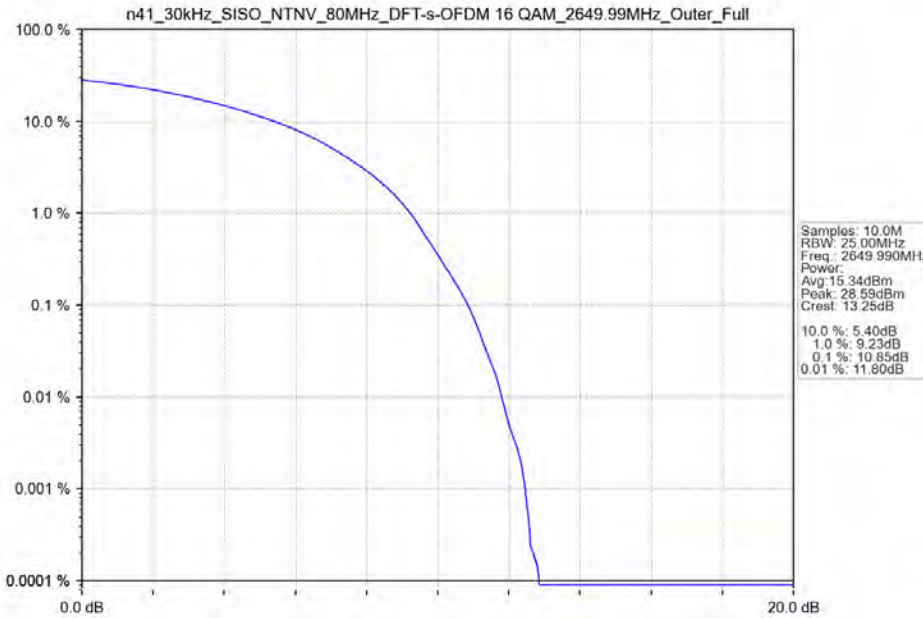
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_2536.02MHz_Outer_Full



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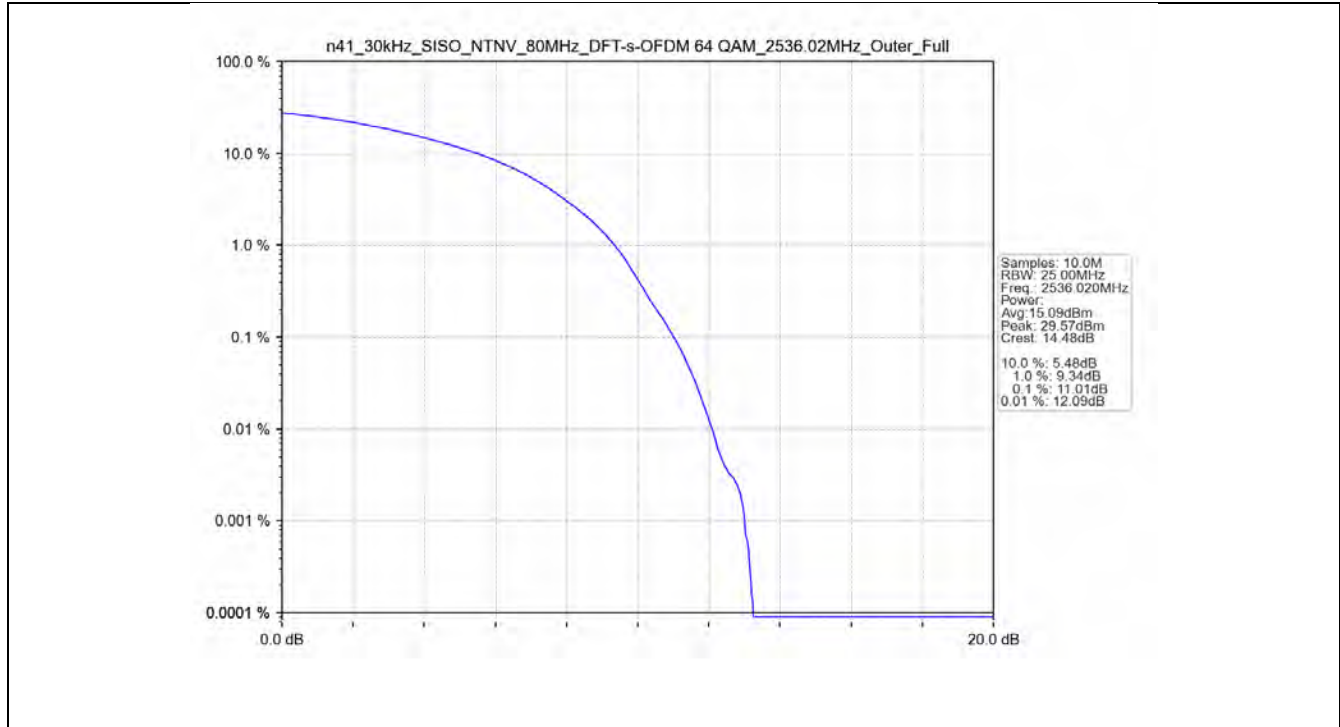


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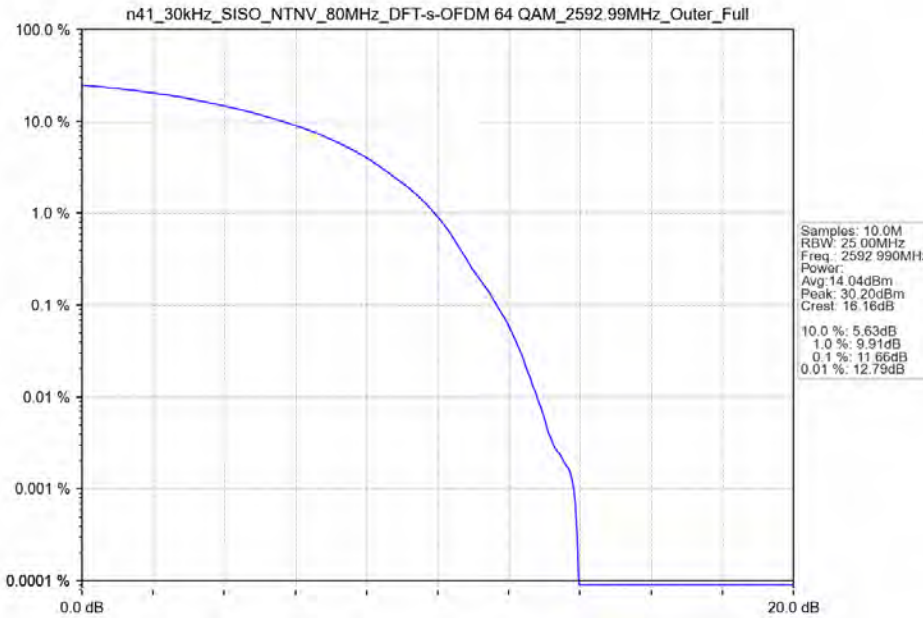
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_2649.99MHz_Outer_Full



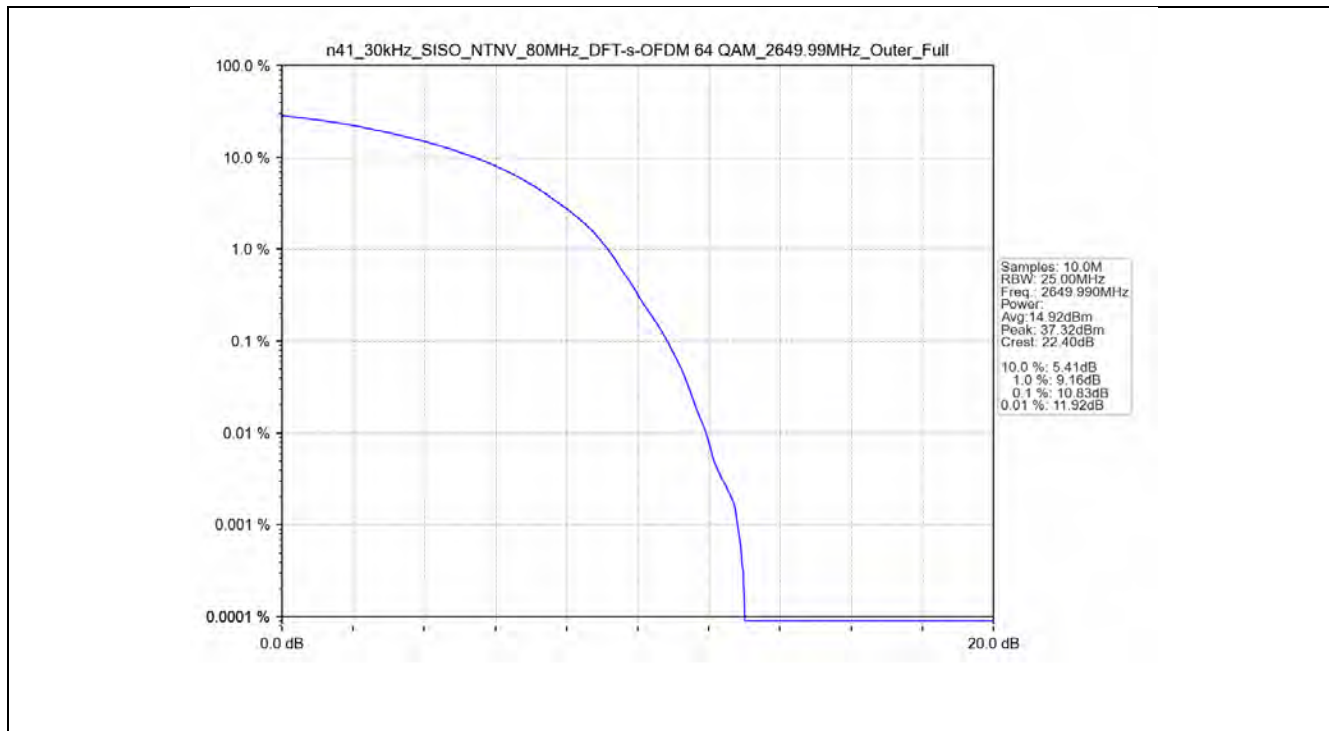
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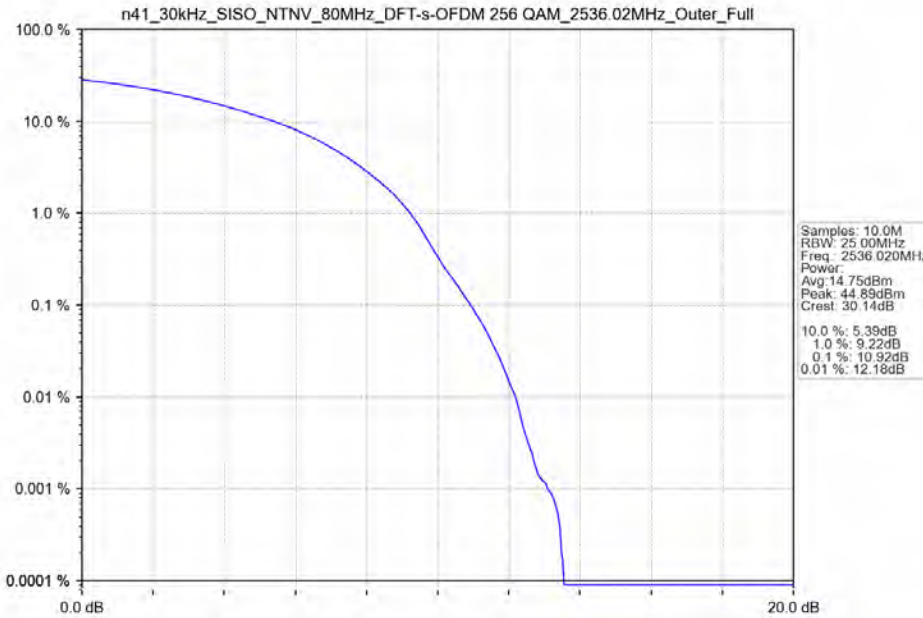
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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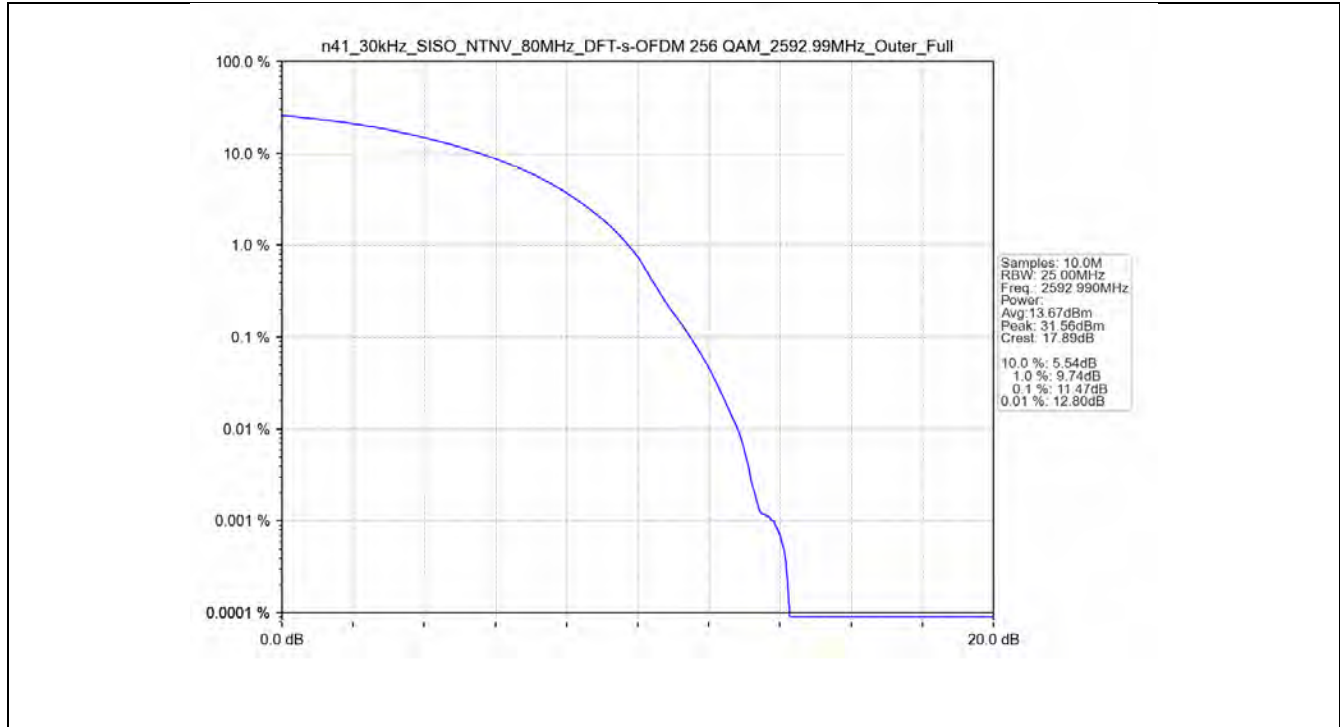


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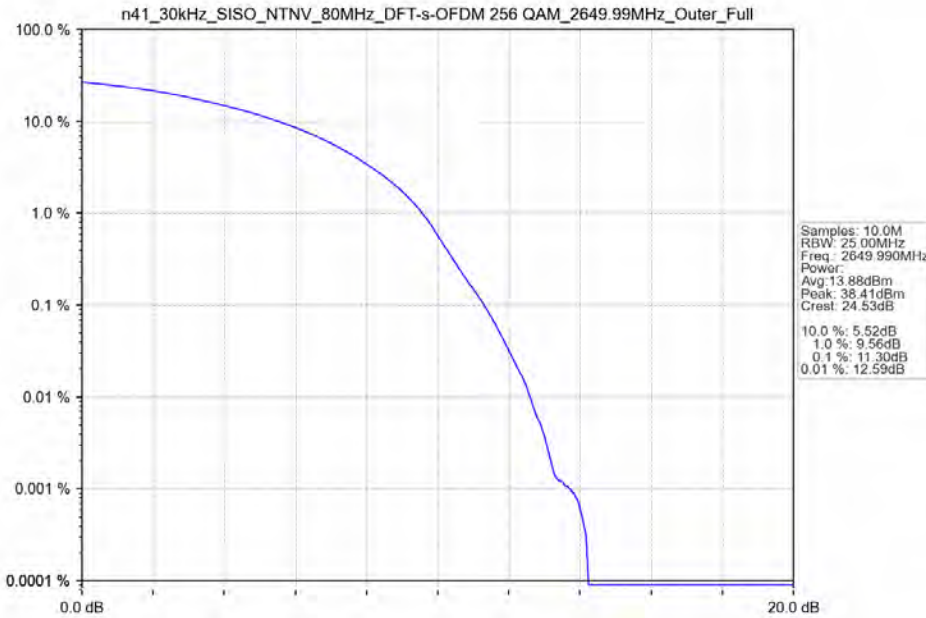
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_2536.02MHz_Outer_Full



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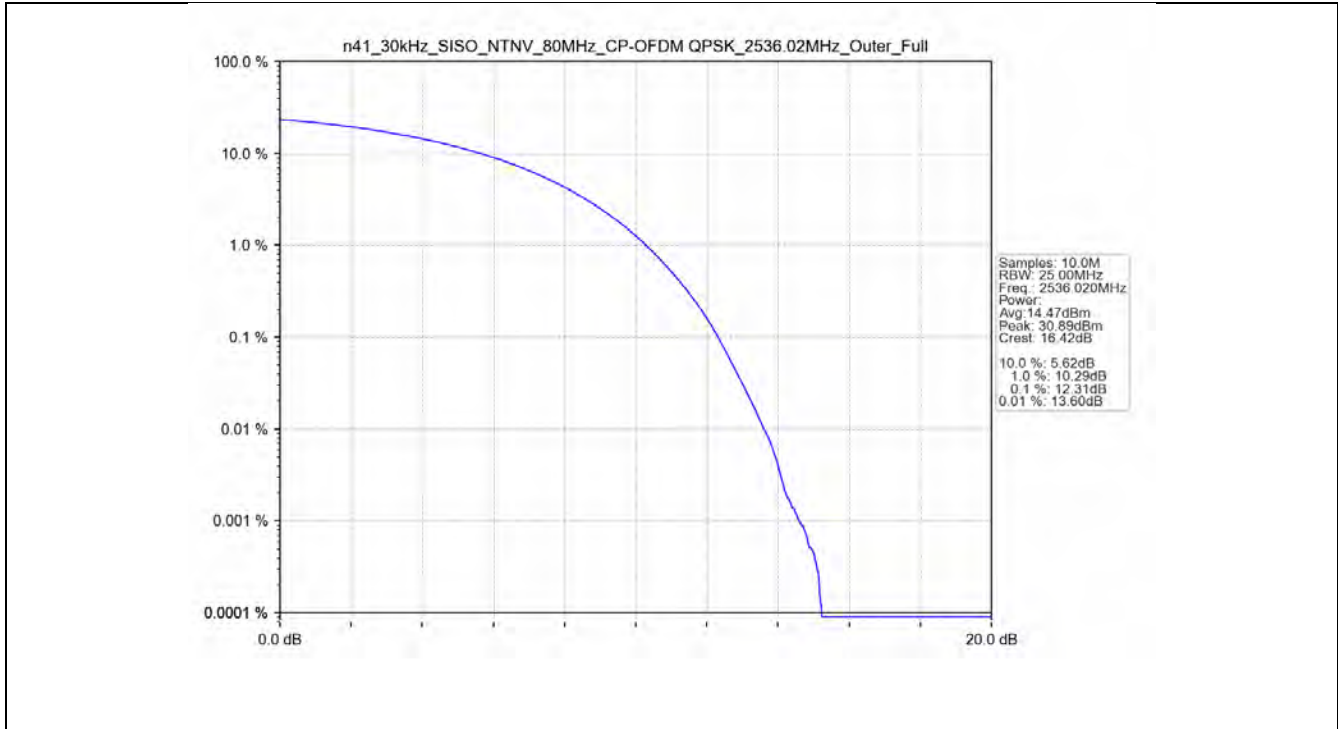


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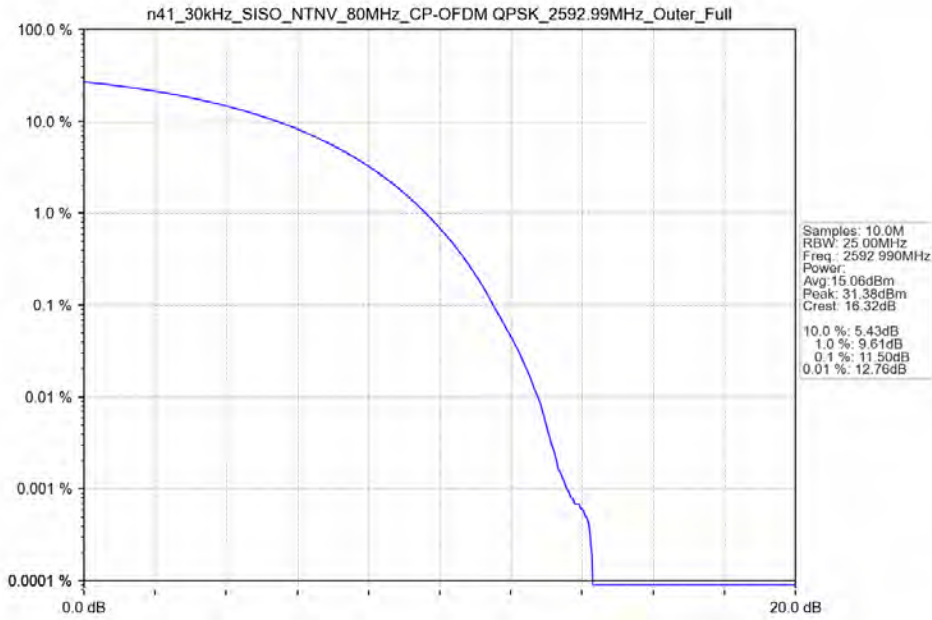
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_2649.99MHz_Outer_Full



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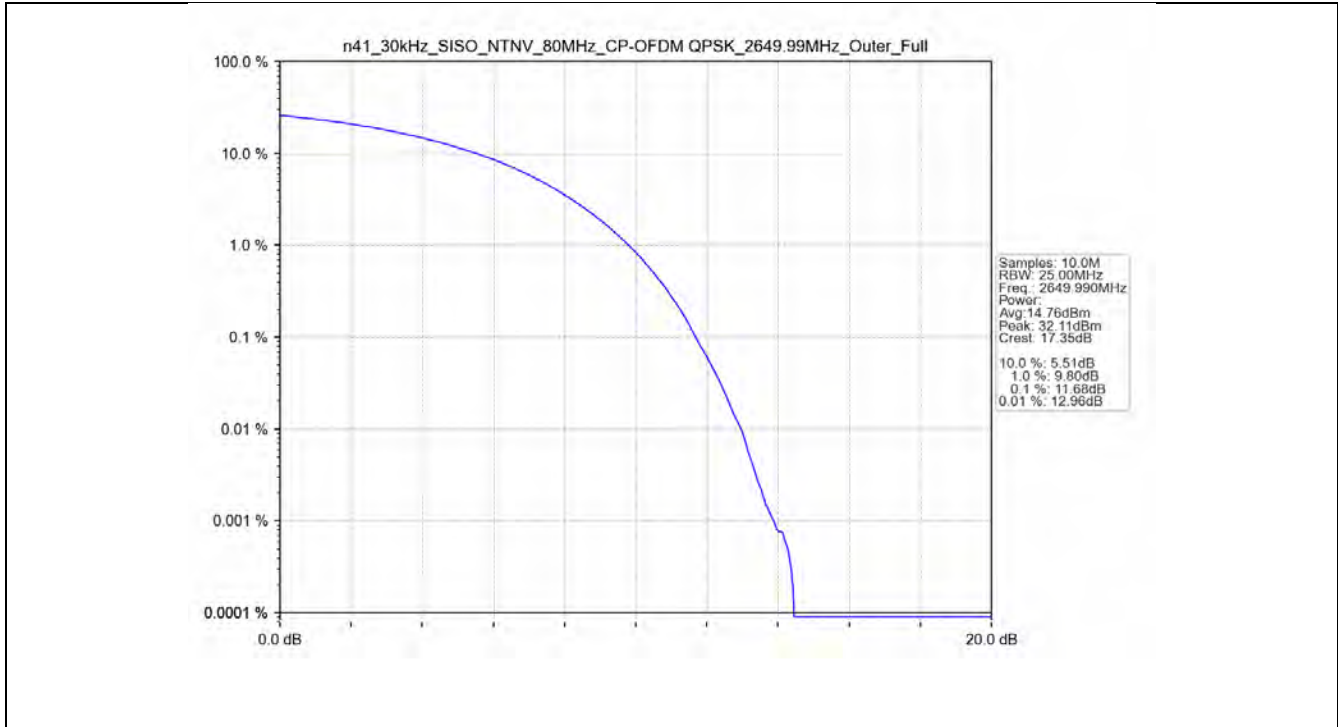


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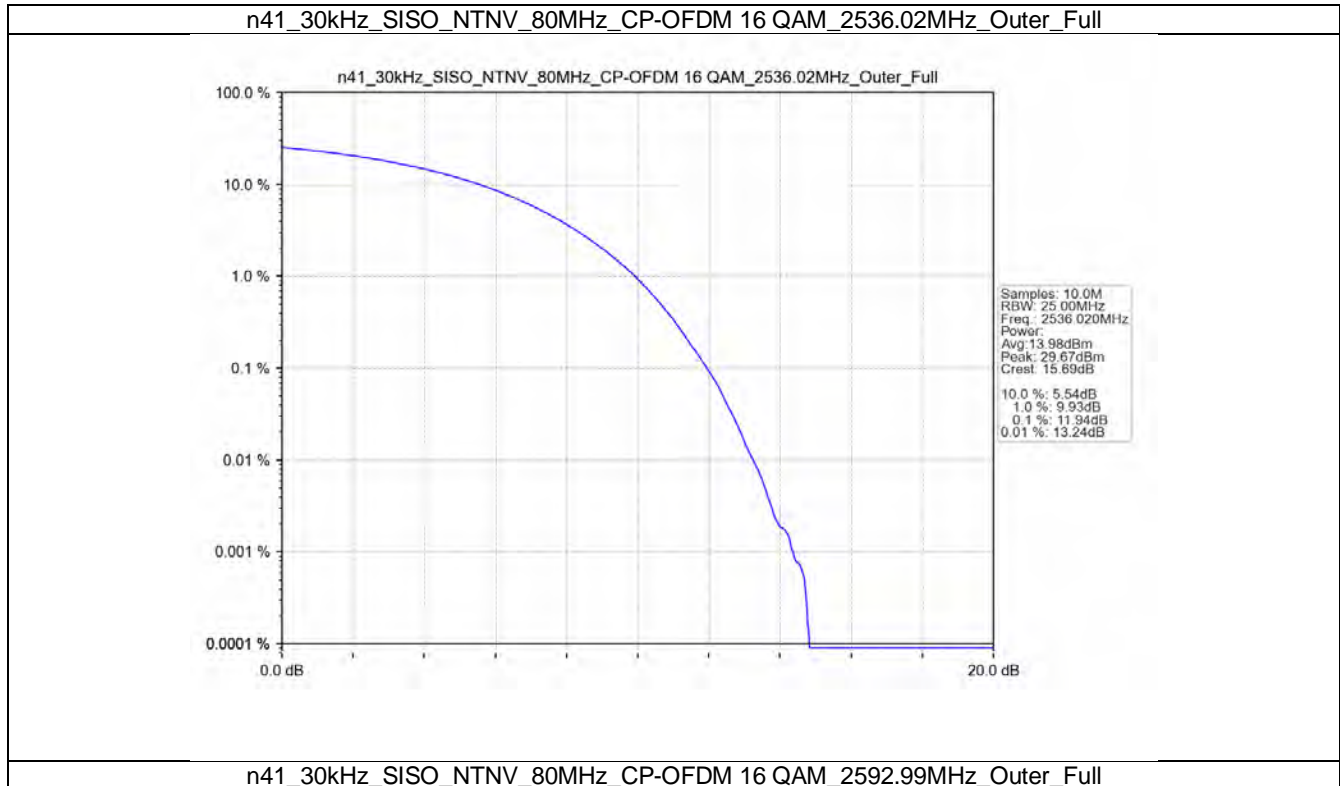


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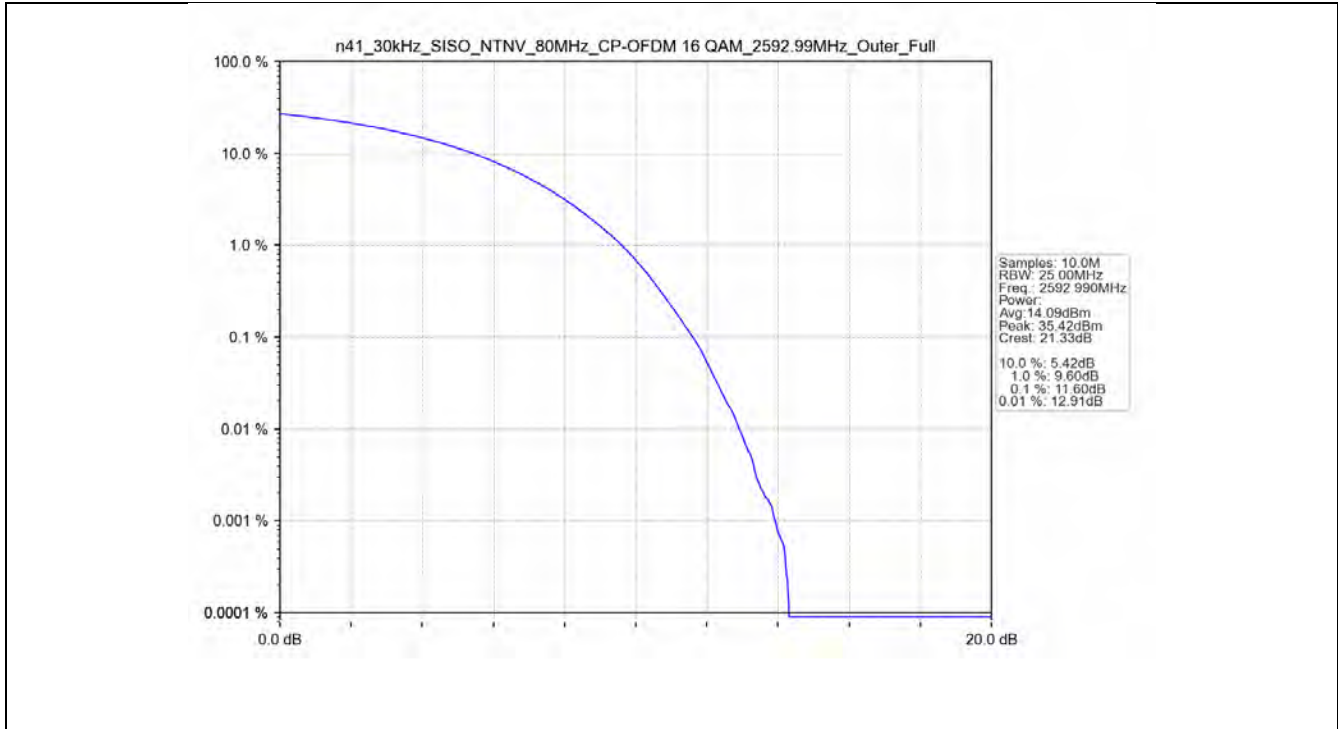


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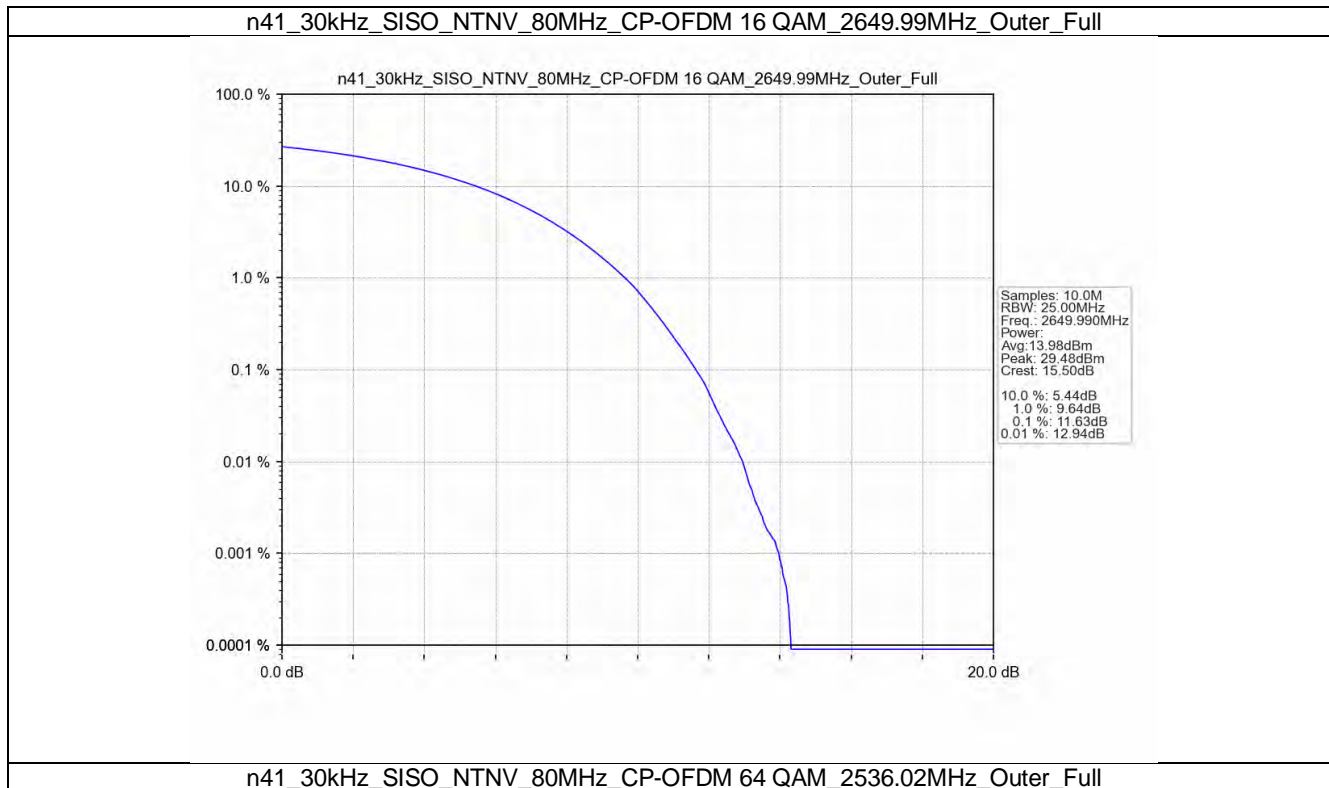
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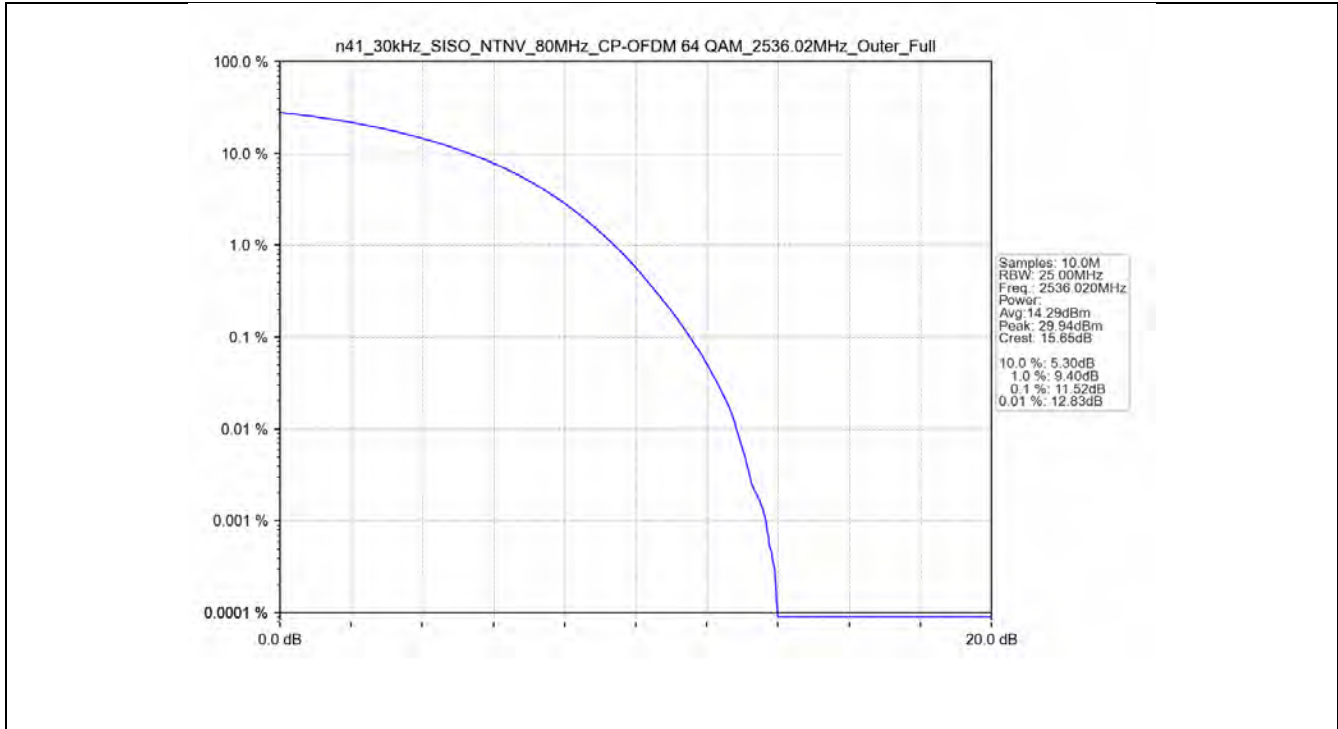


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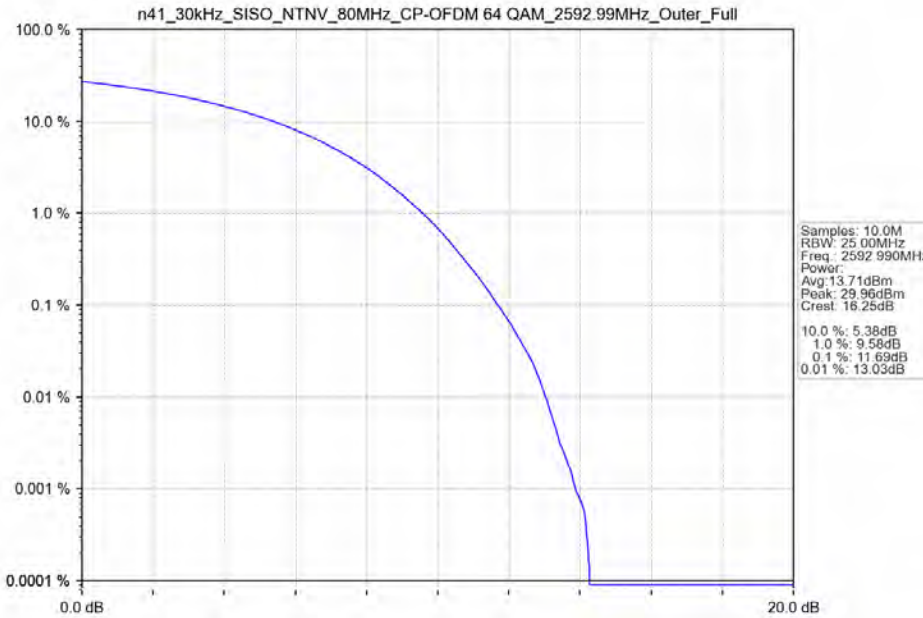
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_2649.99MHz_Outer_Full



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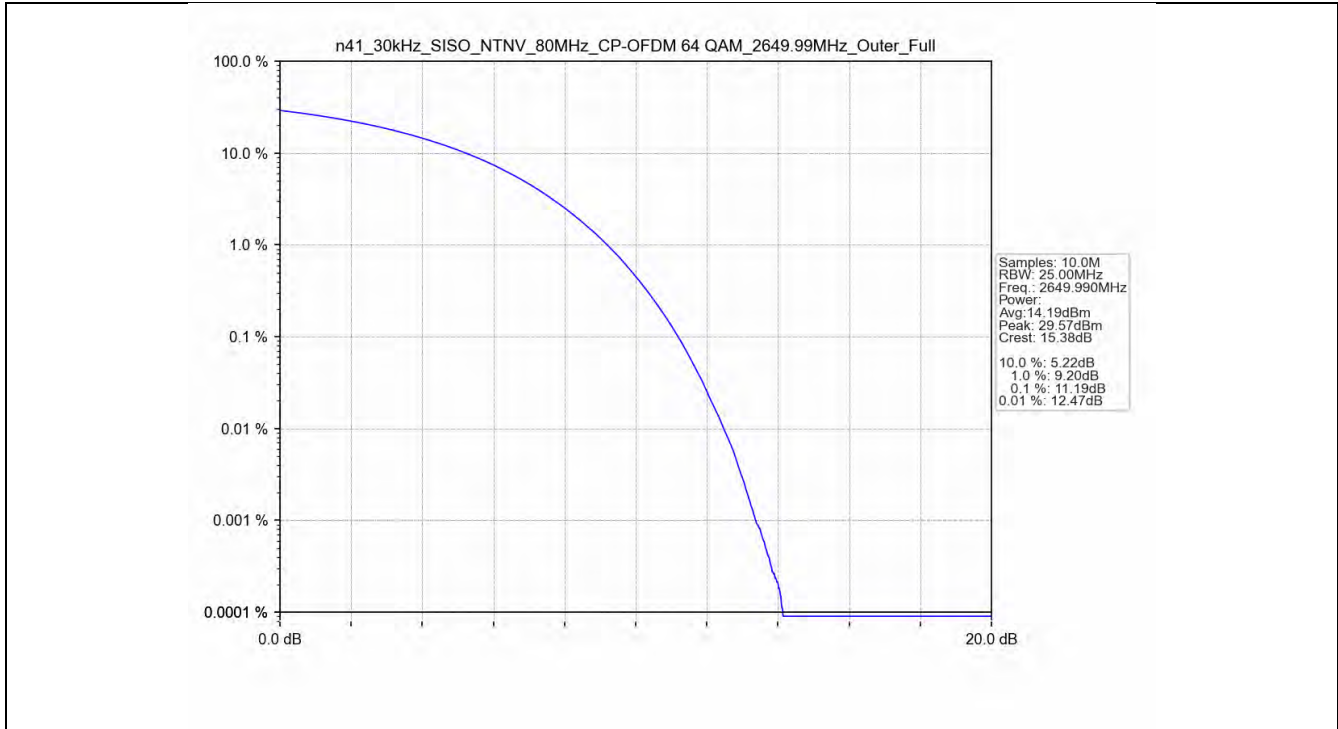


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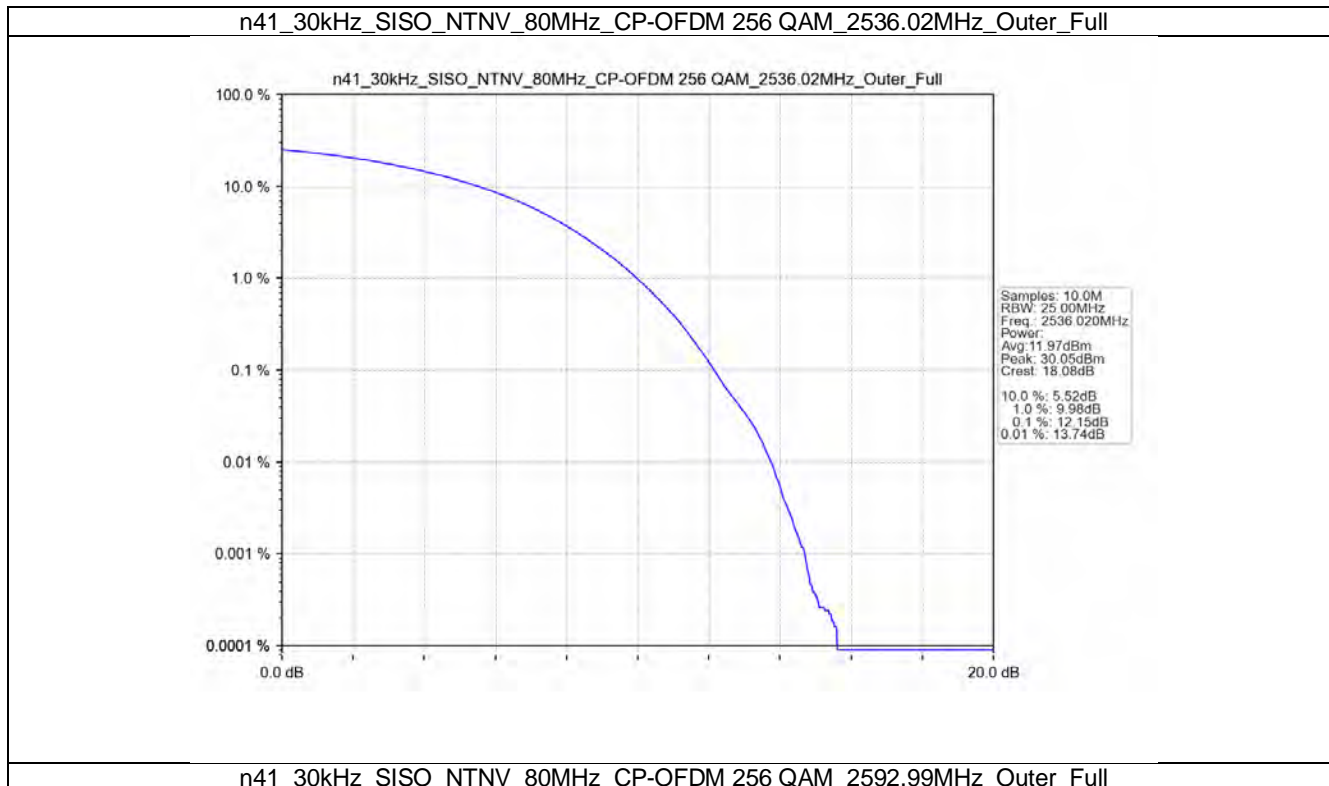
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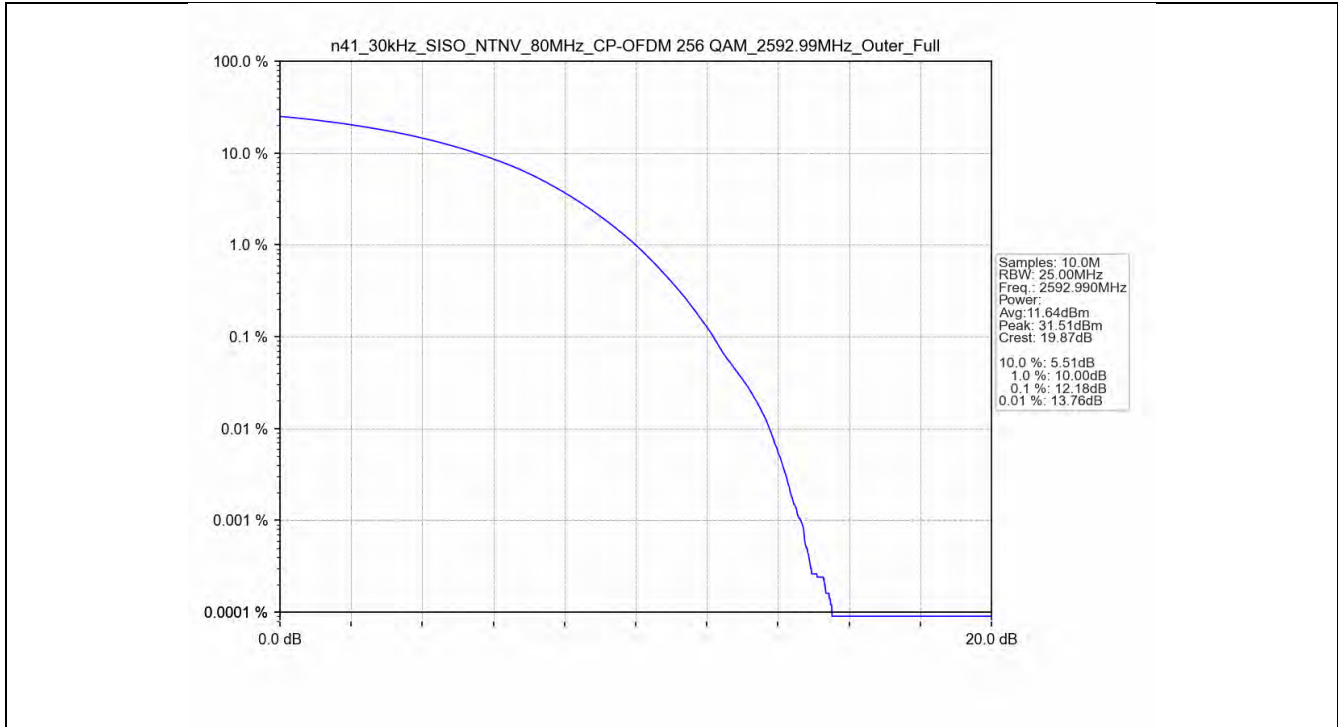


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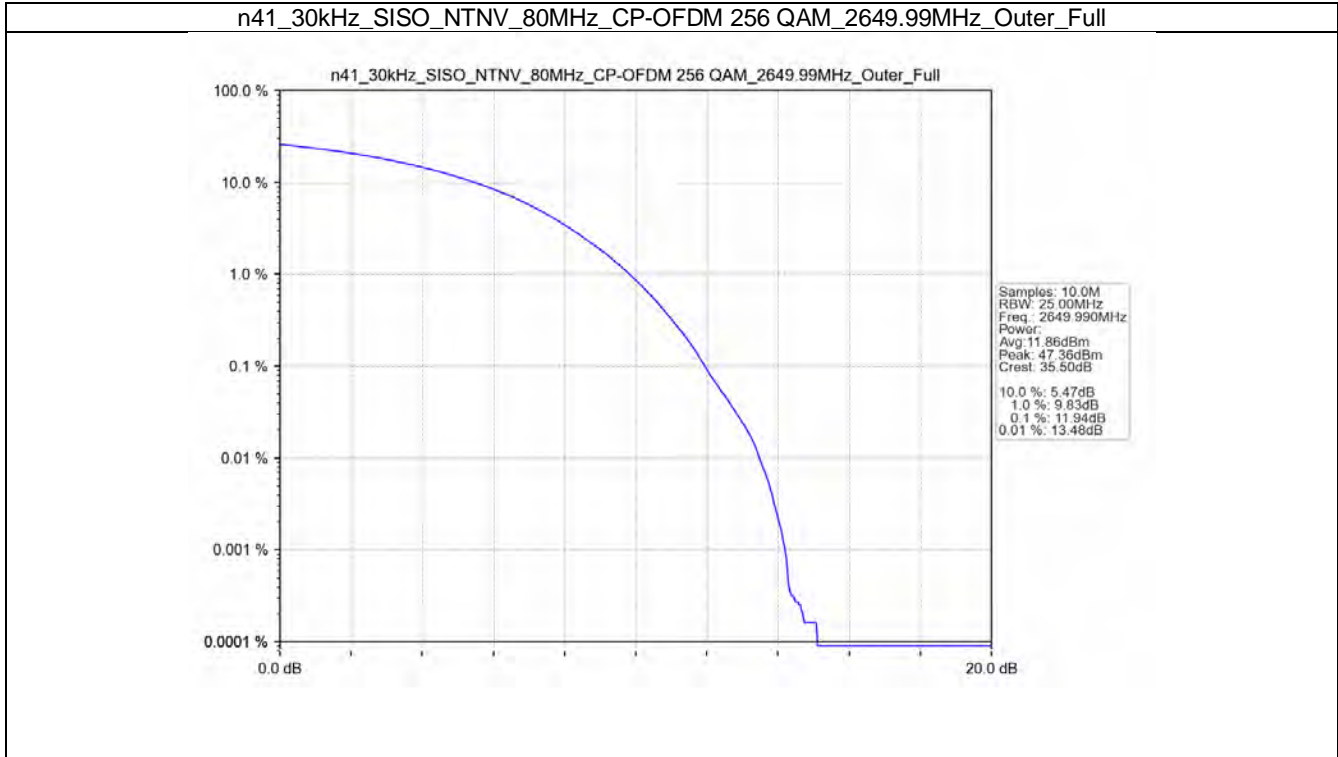


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4.7 30k_SISO_90MHz_NTNV

4.7.1 Test Result

5G NR n41 SCS=30kHz SISO 90MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2541	Outer_Full	10.71	/	/	<=13	Pass
	2592.99	Outer_Full	10.15	/	/	<=13	Pass
	2644.98	Outer_Full	10.04	/	/	<=13	Pass
DFT-s-OFDM QPSK	2541	Outer_Full	10.86	/	/	<=13	Pass
	2592.99	Outer_Full	10.57	/	/	<=13	Pass
	2644.98	Outer_Full	10.92	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2541	Outer_Full	11.12	/	/	<=13	Pass
	2592.99	Outer_Full	10.81	/	/	<=13	Pass
	2644.98	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2541	Outer_Full	11.14	/	/	<=13	Pass
	2592.99	Outer_Full	11.16	/	/	<=13	Pass
	2644.98	Outer_Full	11.38	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2541	Outer_Full	10.88	/	/	<=13	Pass
	2592.99	Outer_Full	10.89	/	/	<=13	Pass
	2644.98	Outer_Full	10.85	/	/	<=13	Pass
CP-OFDM QPSK	2541	Outer_Full	11.84	/	/	<=13	Pass
	2592.99	Outer_Full	11.91	/	/	<=13	Pass
	2644.98	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 16 QAM	2541	Outer_Full	11.77	/	/	<=13	Pass
	2592.99	Outer_Full	11.26	/	/	<=13	Pass
	2644.98	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 64 QAM	2541	Outer_Full	11.61	/	/	<=13	Pass
	2592.99	Outer_Full	11.82	/	/	<=13	Pass
	2644.98	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 256 QAM	2541	Outer_Full	11.87	/	/	<=13	Pass
	2592.99	Outer_Full	11.72	/	/	<=13	Pass
	2644.98	Outer_Full	11.31	/	/	<=13	Pass



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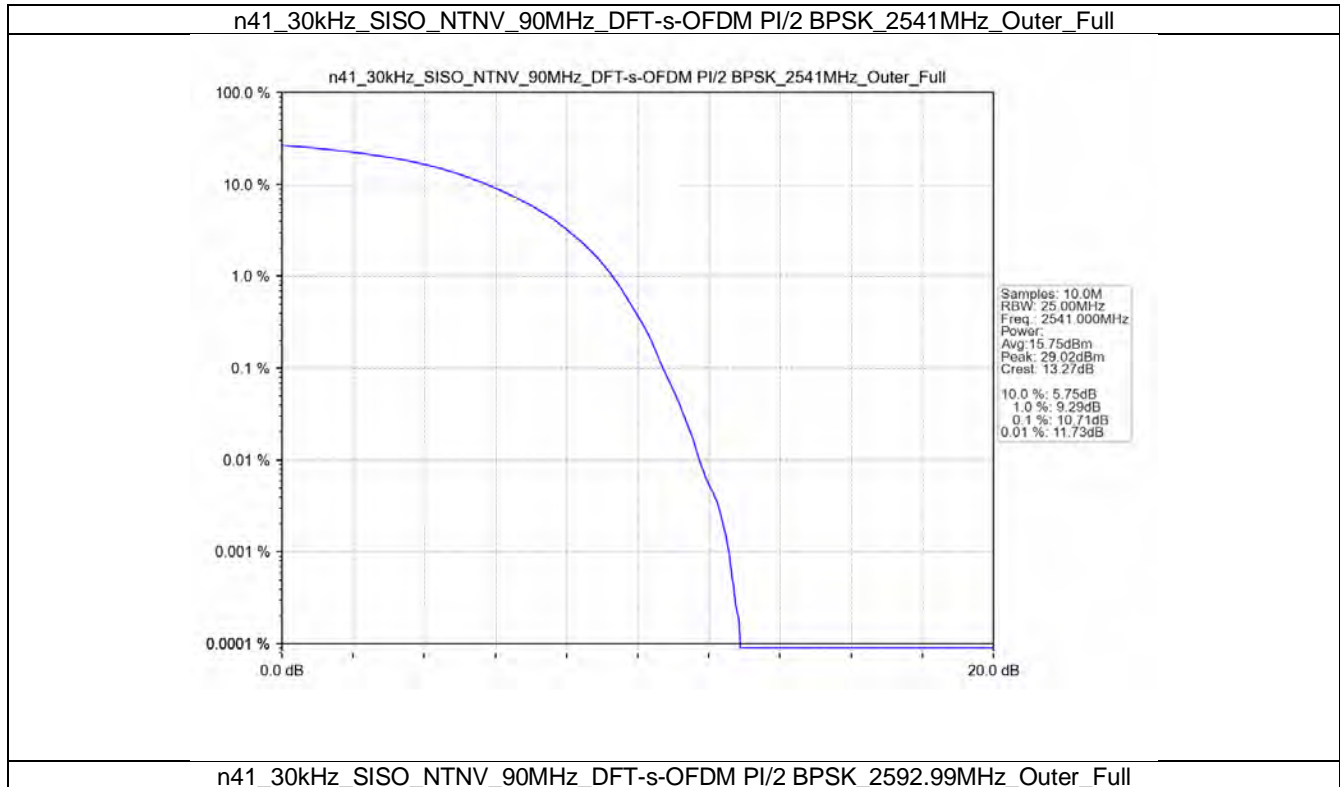
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4.7.2 Test Graph



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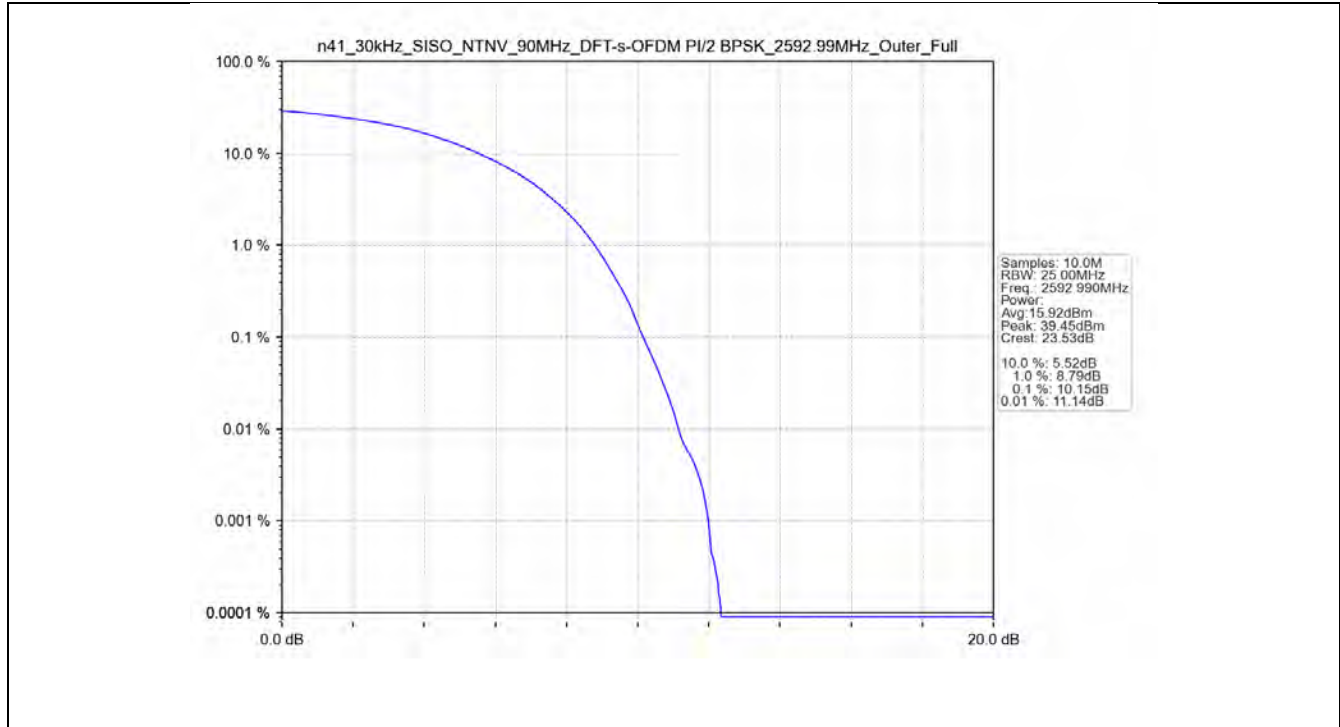


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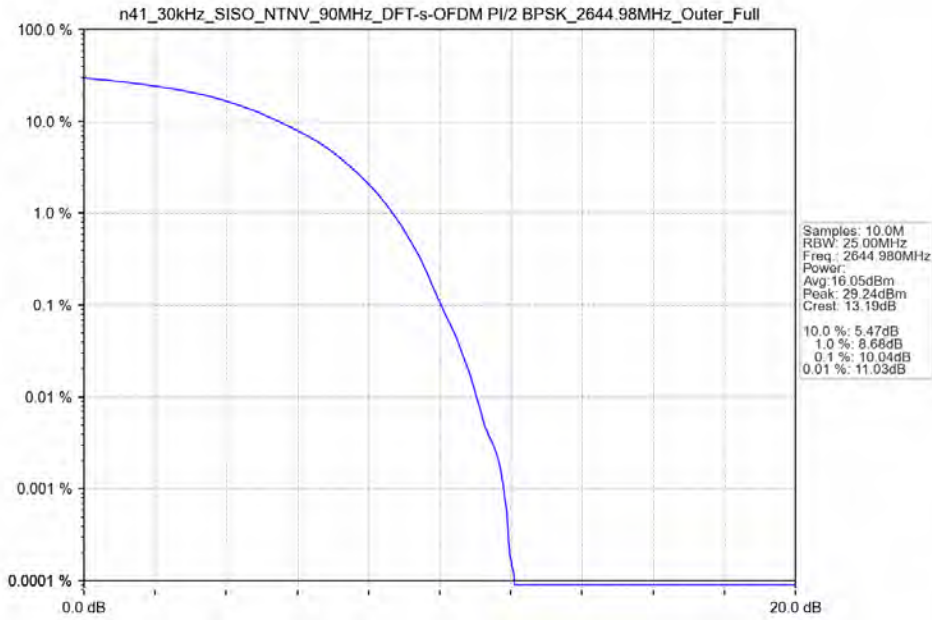
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_2541MHz_Outer_Full



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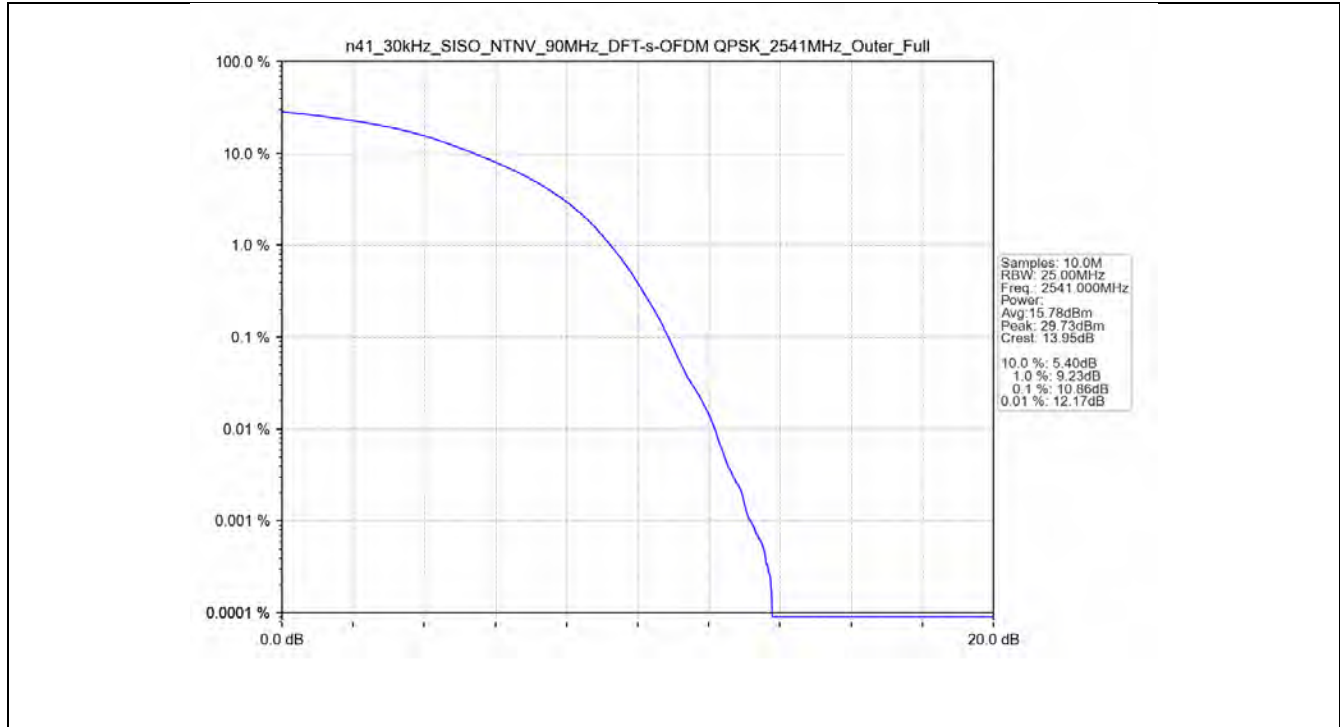


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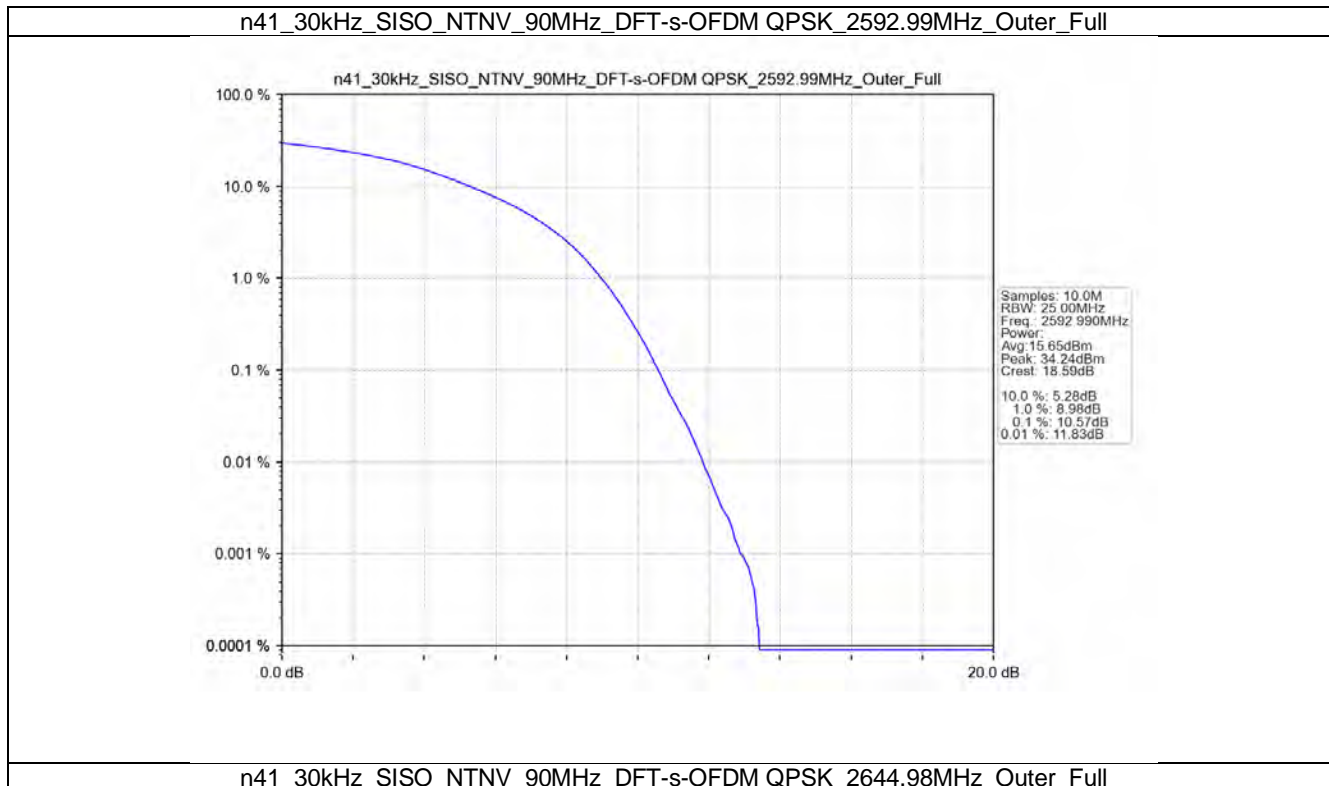
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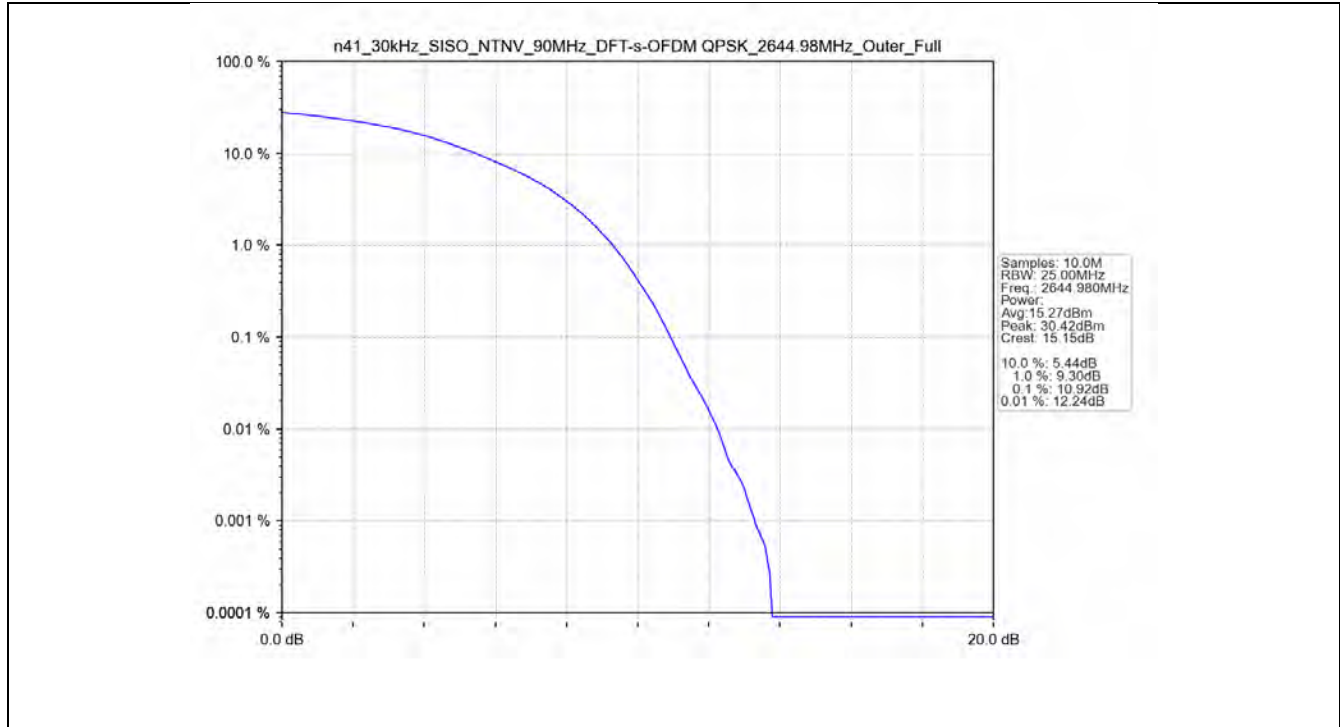


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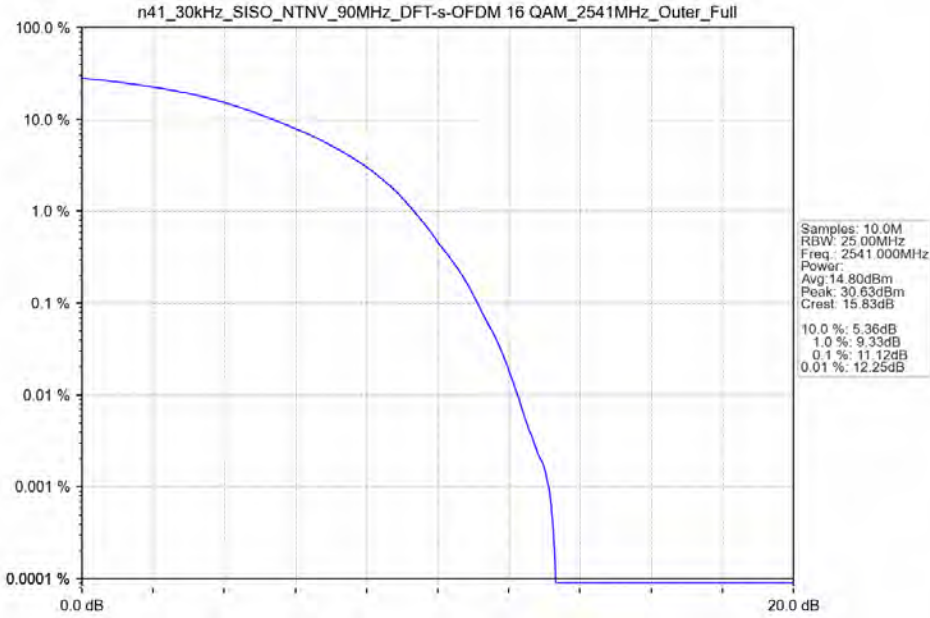
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full



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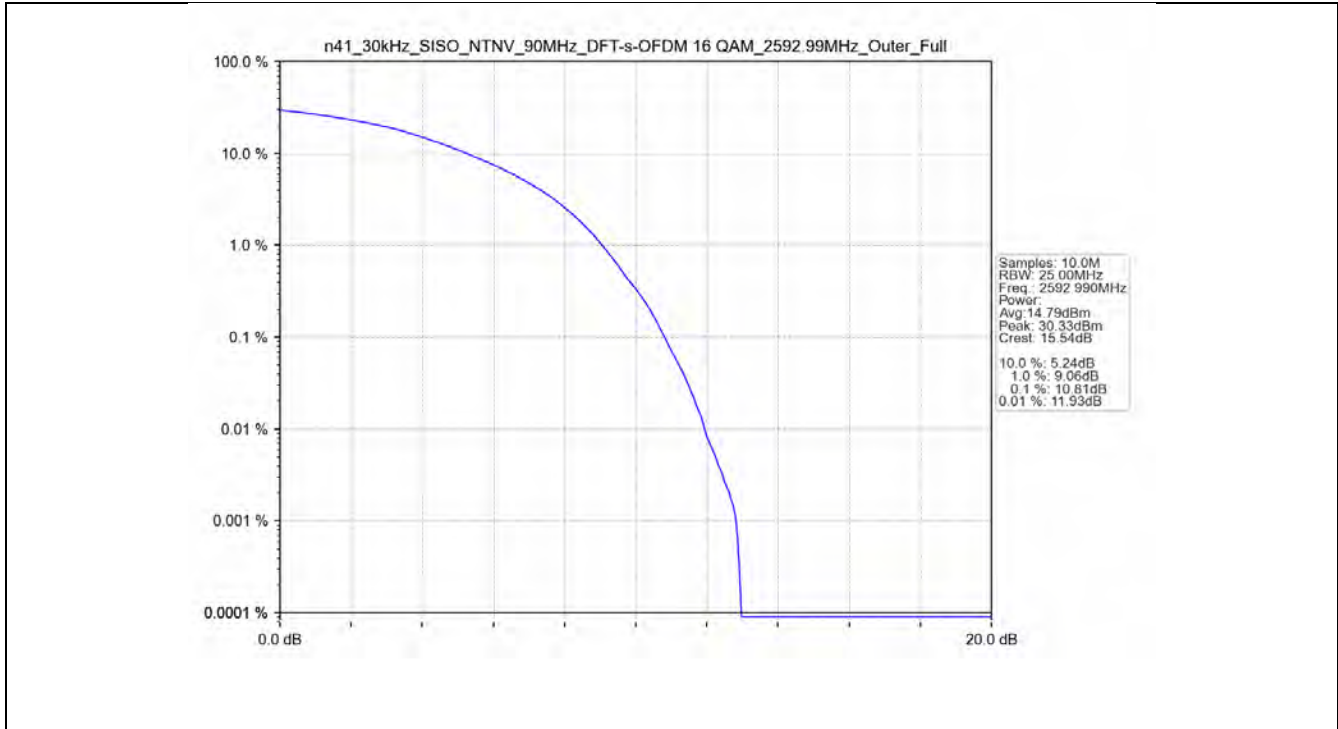


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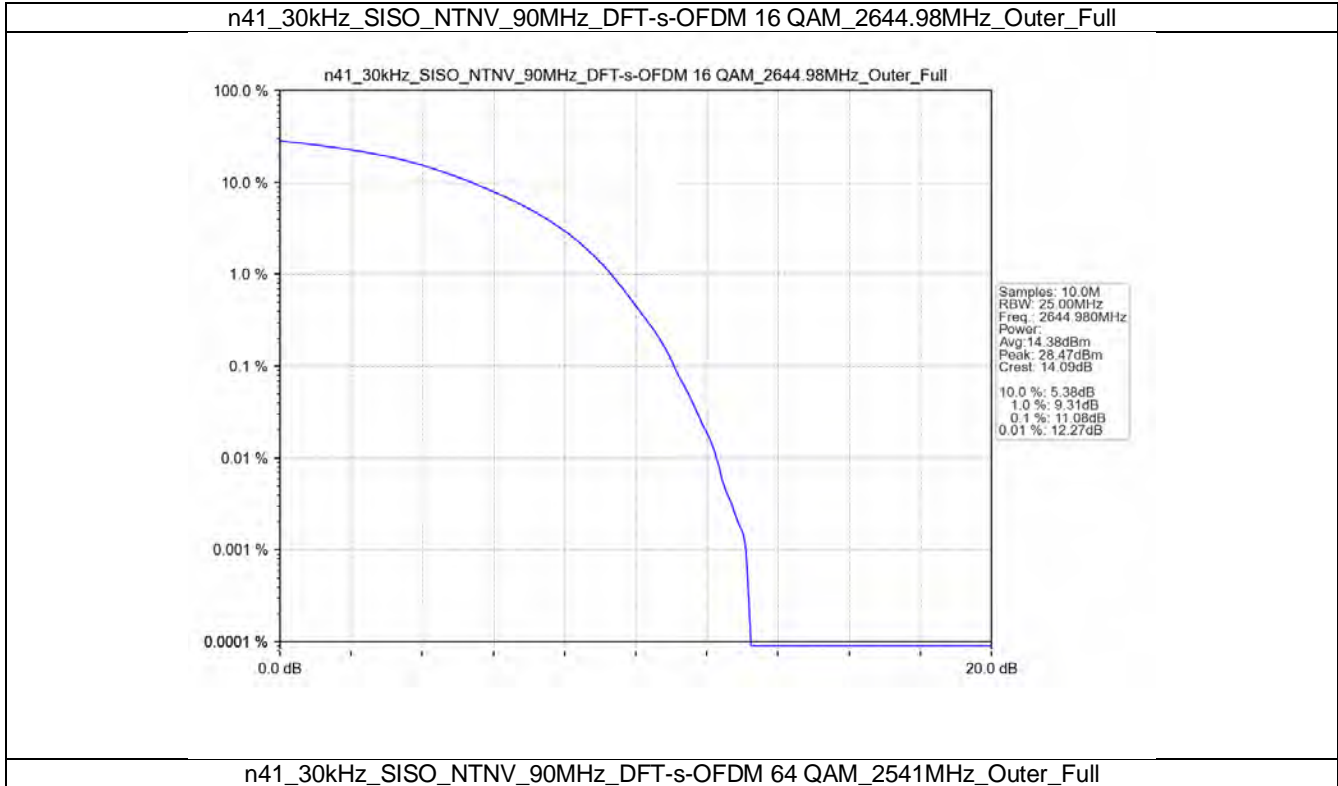


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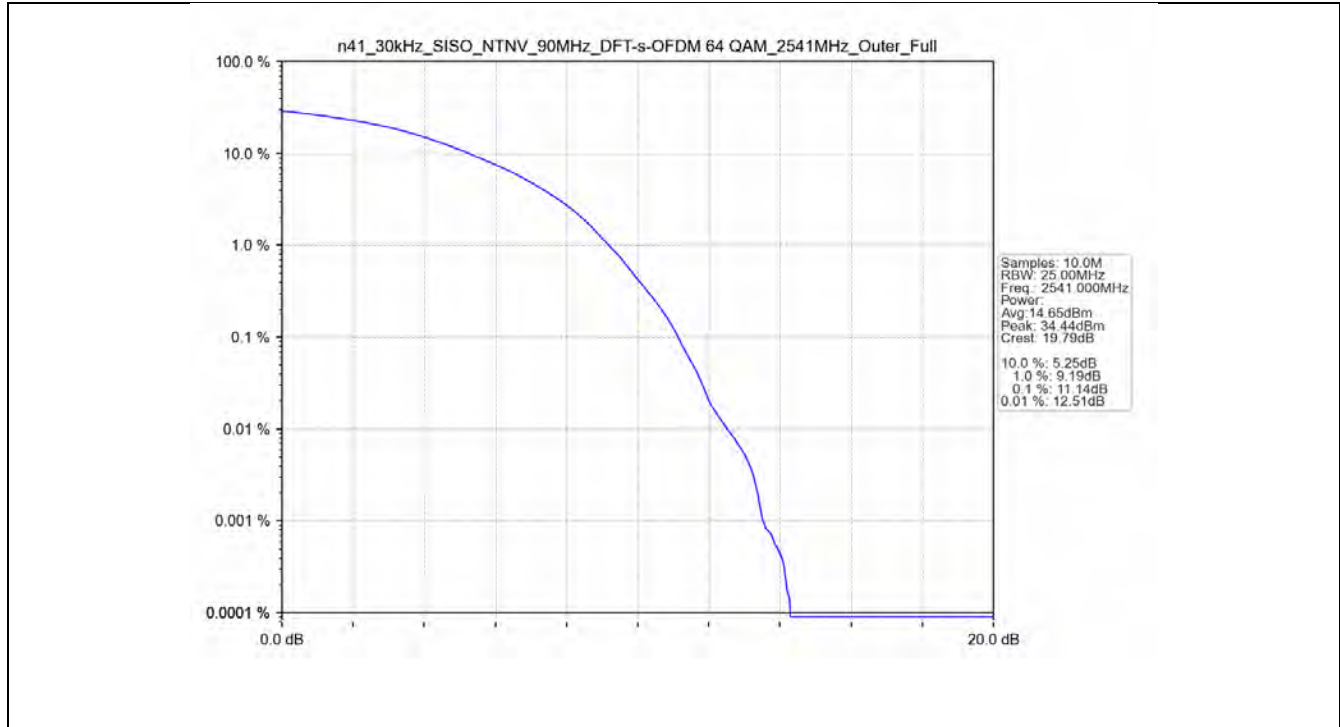


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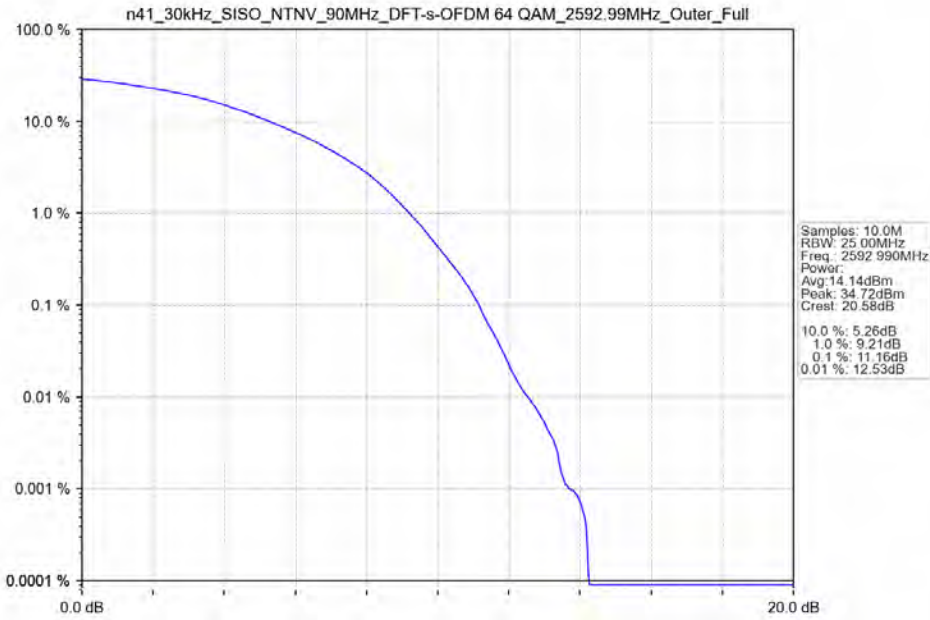
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_2644.98MHz_Outer_Full



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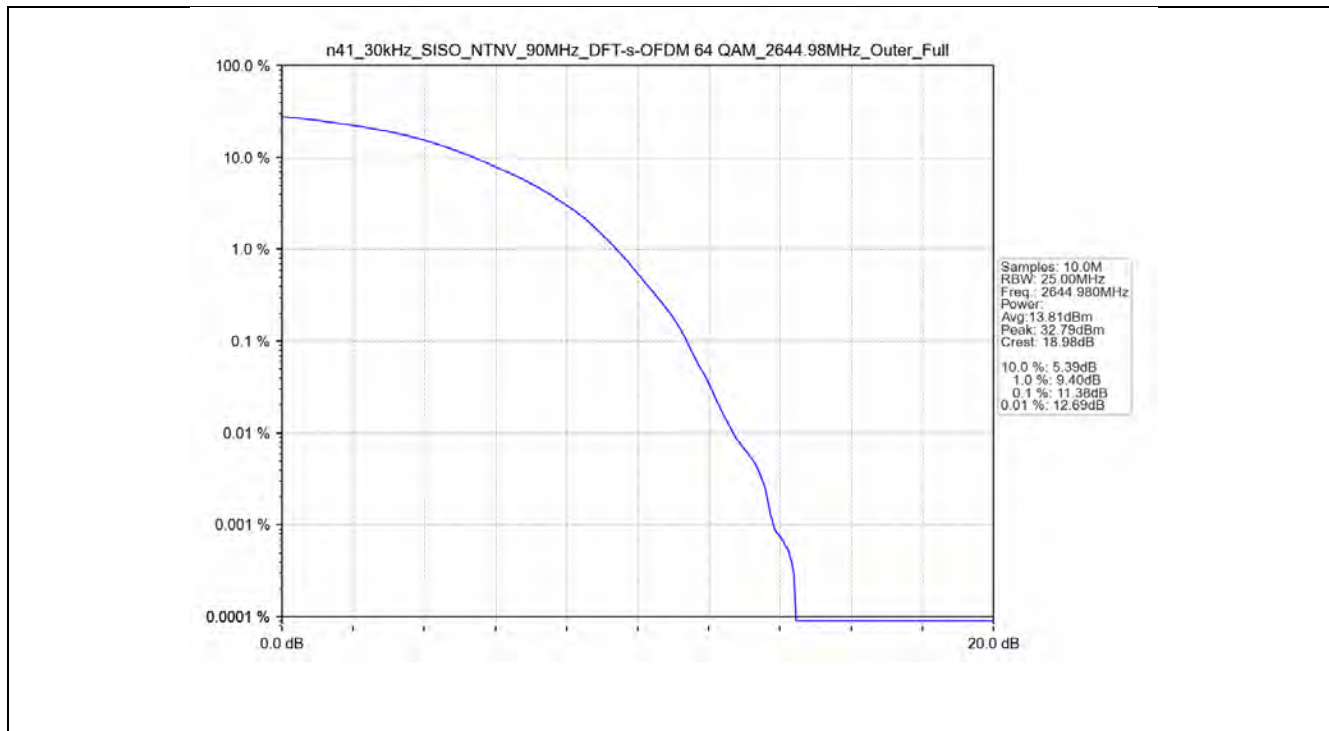
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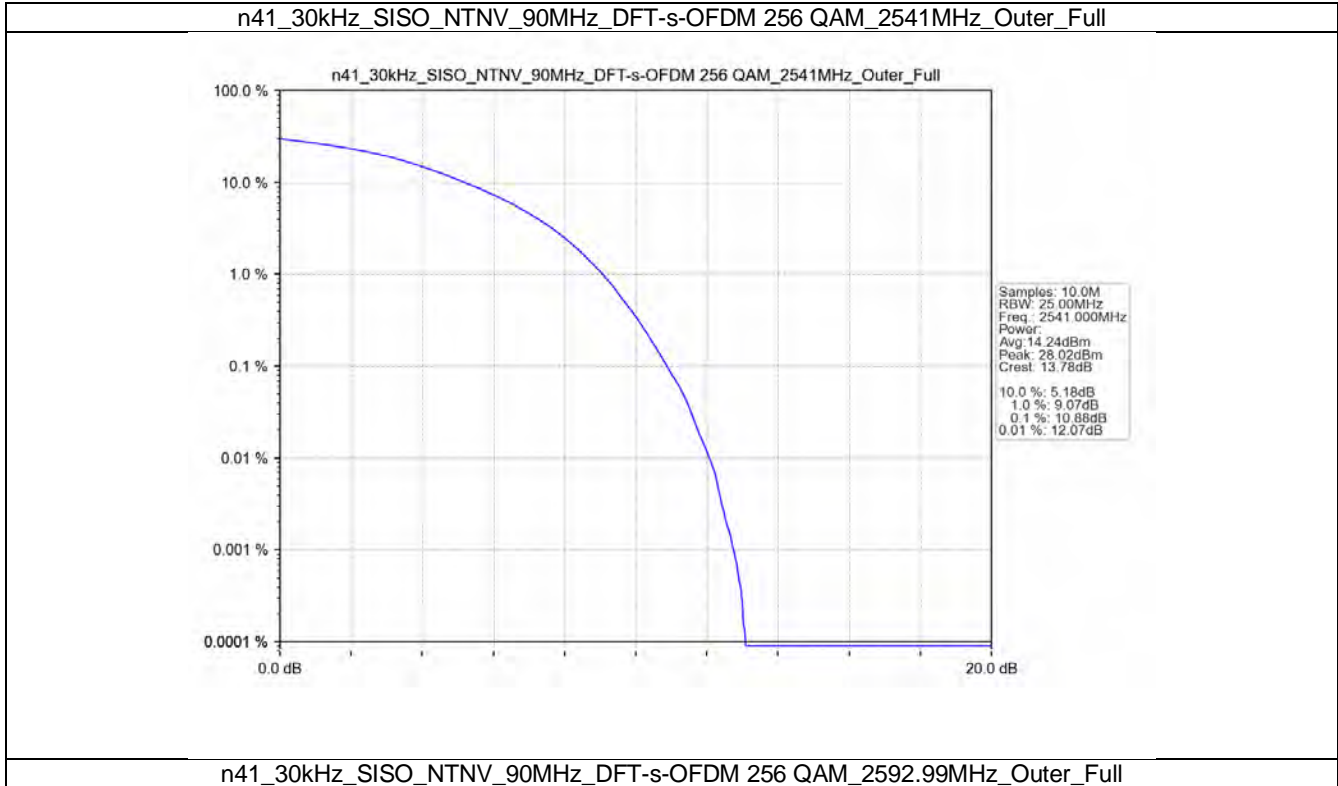


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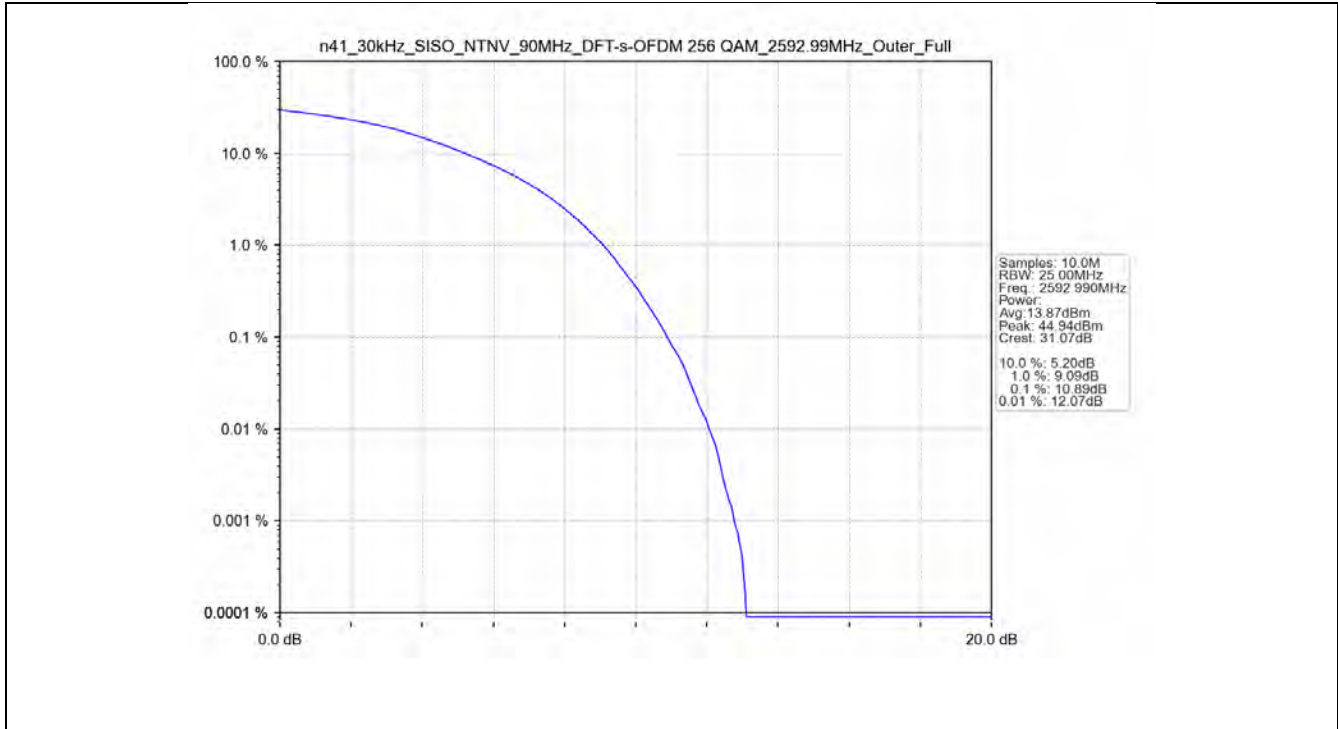


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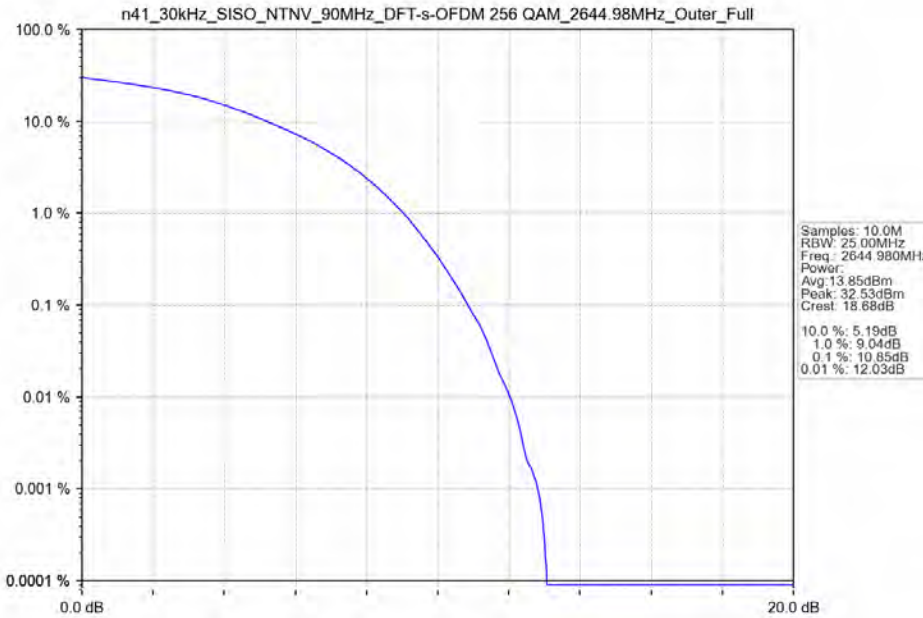
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_2541MHz_Outer_Full



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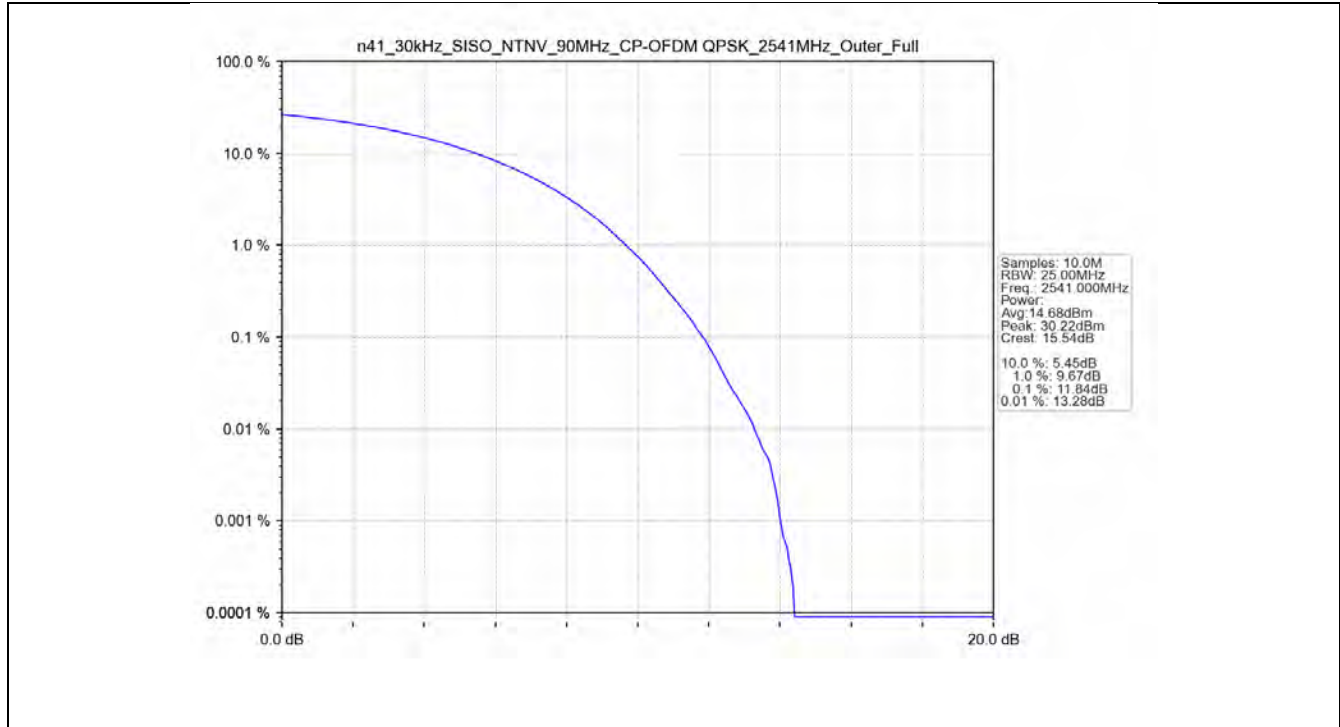


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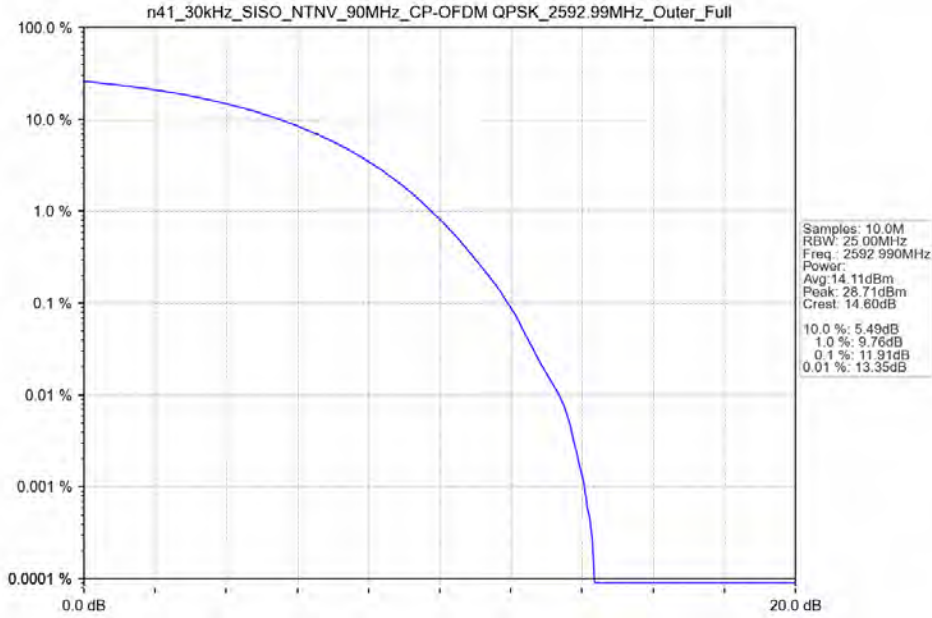
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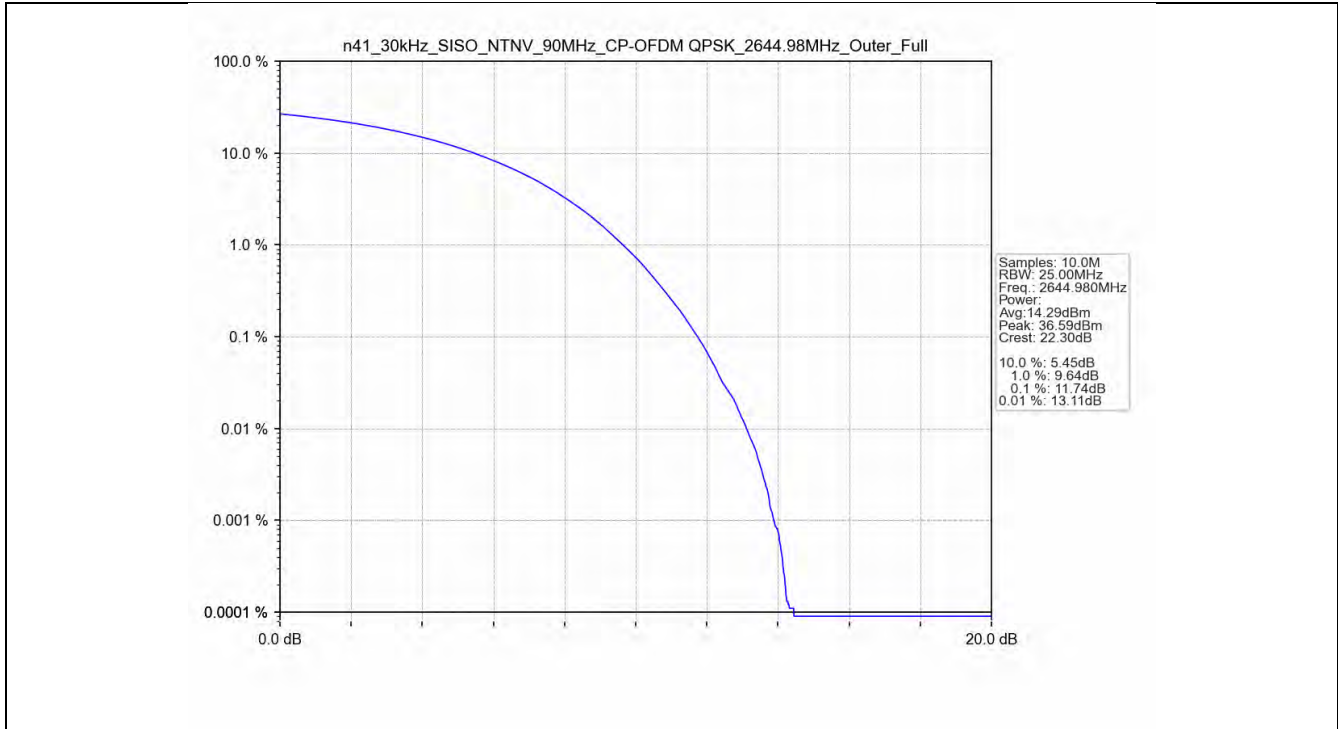


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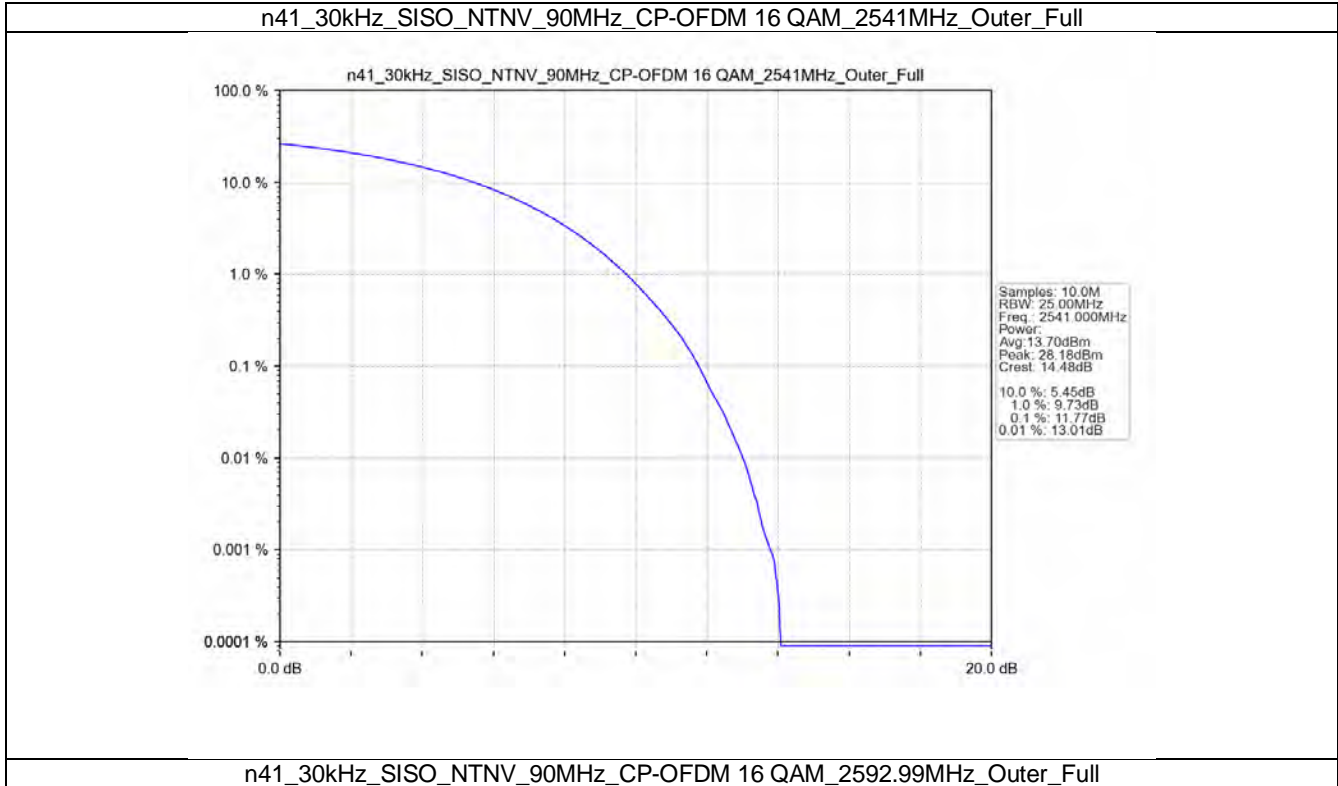


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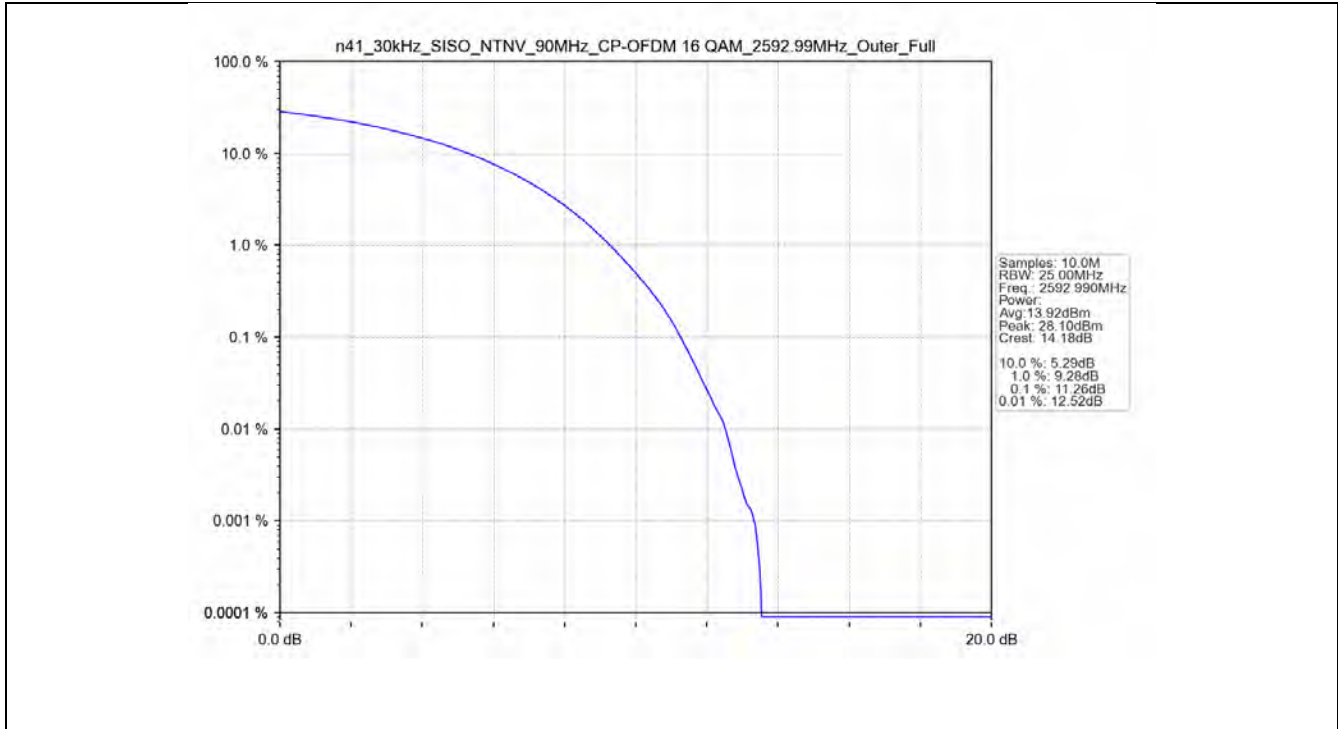


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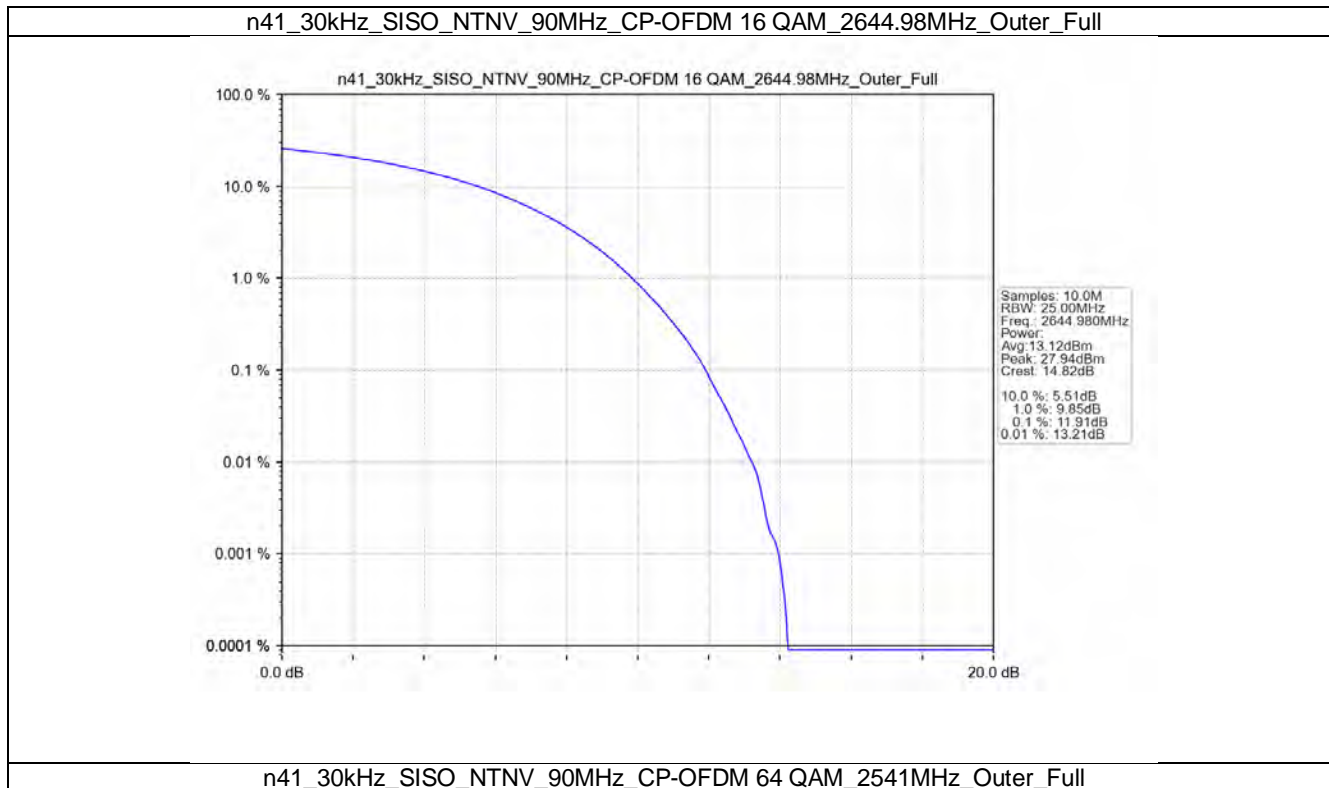
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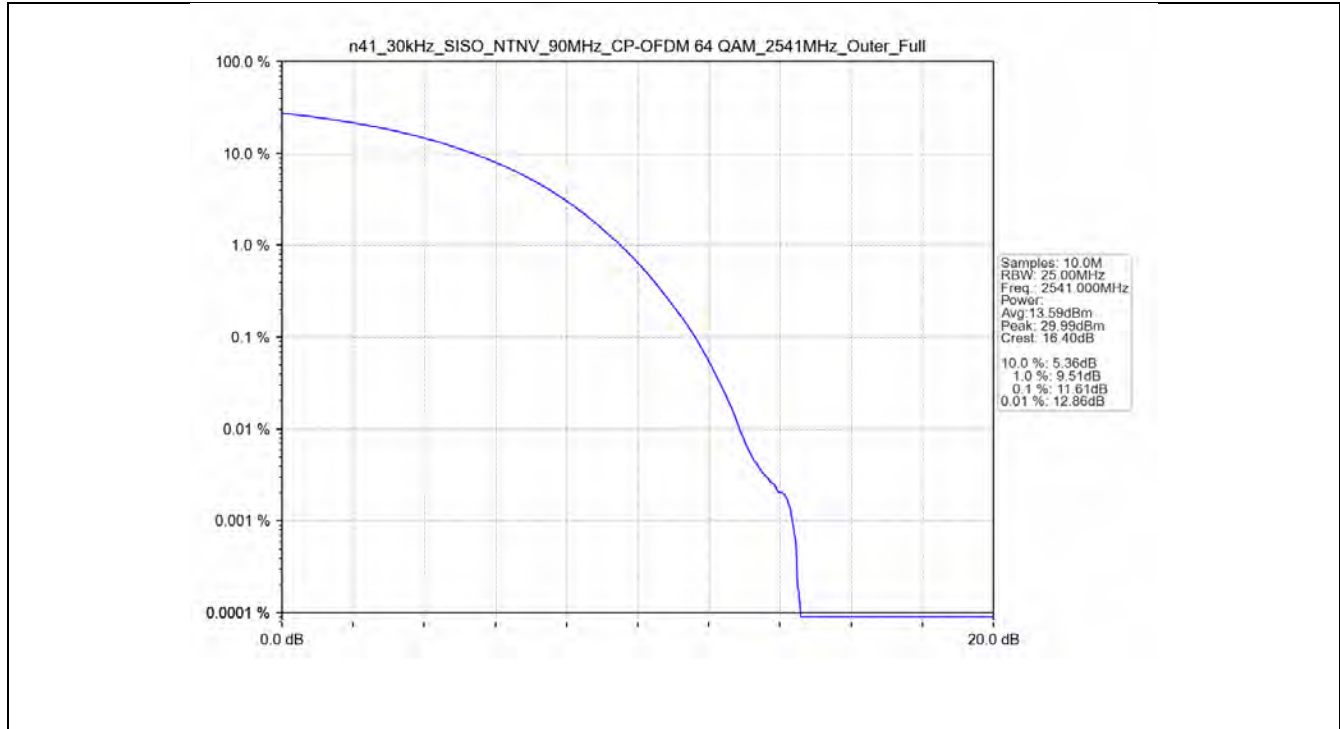


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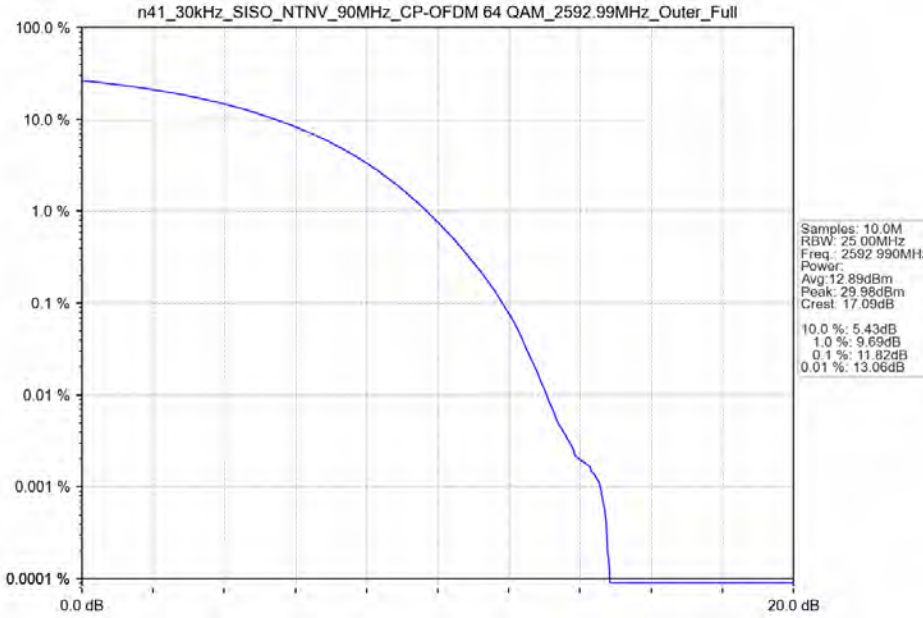
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_2644.98MHz_Outer_Full



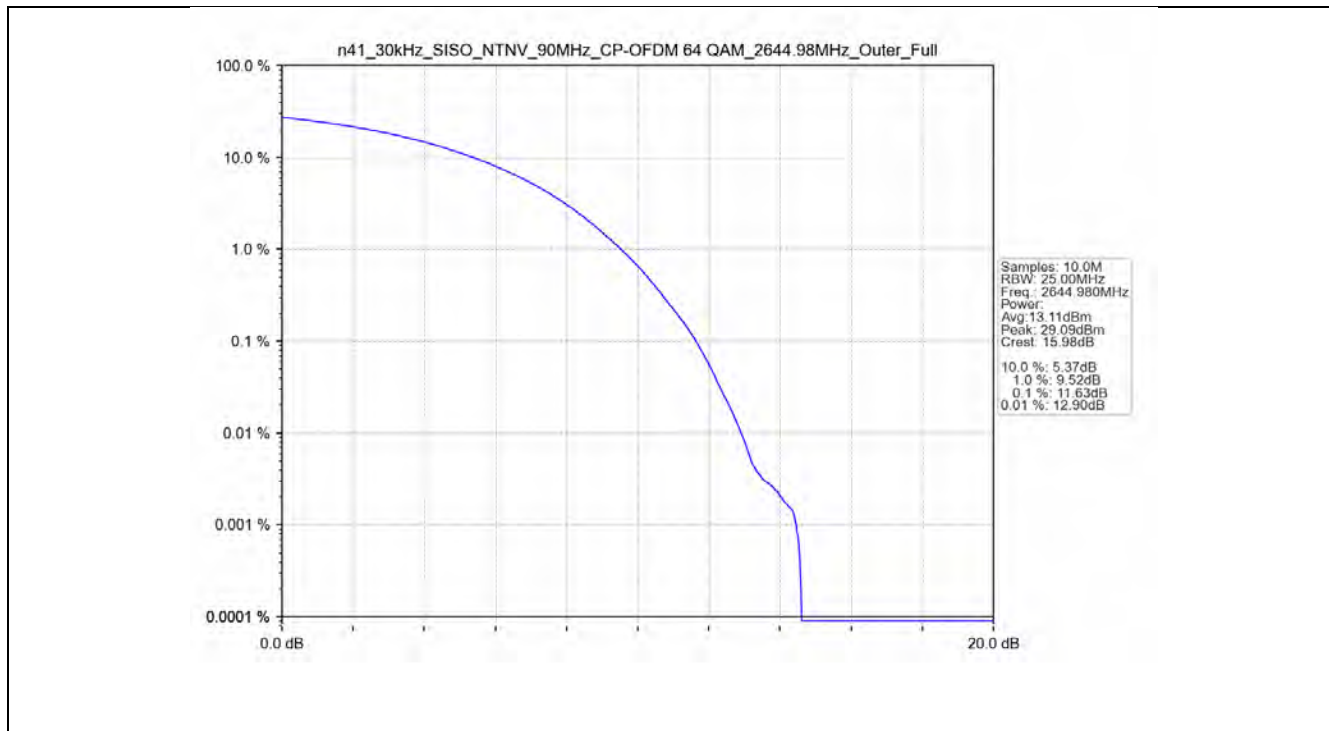
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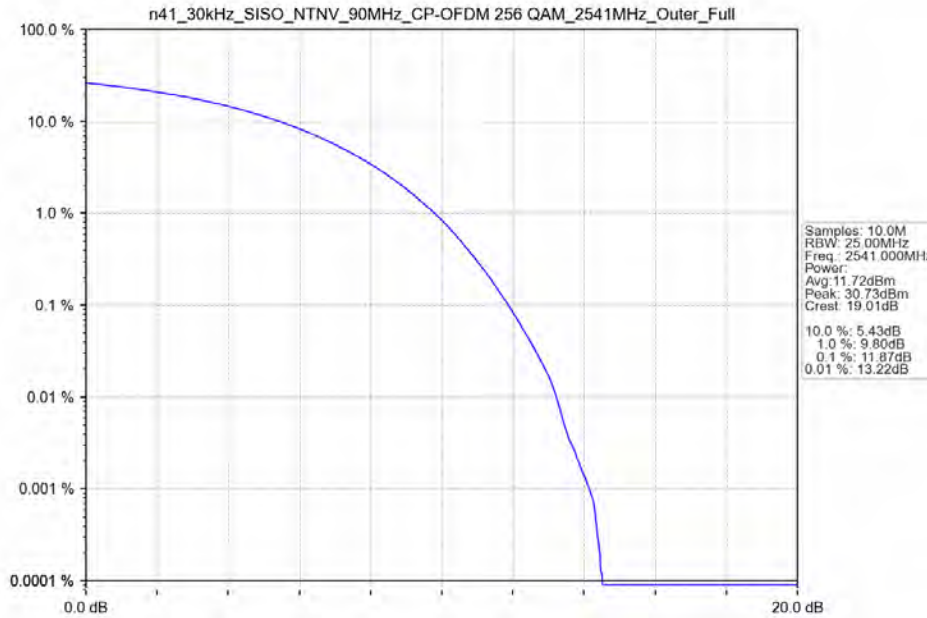
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



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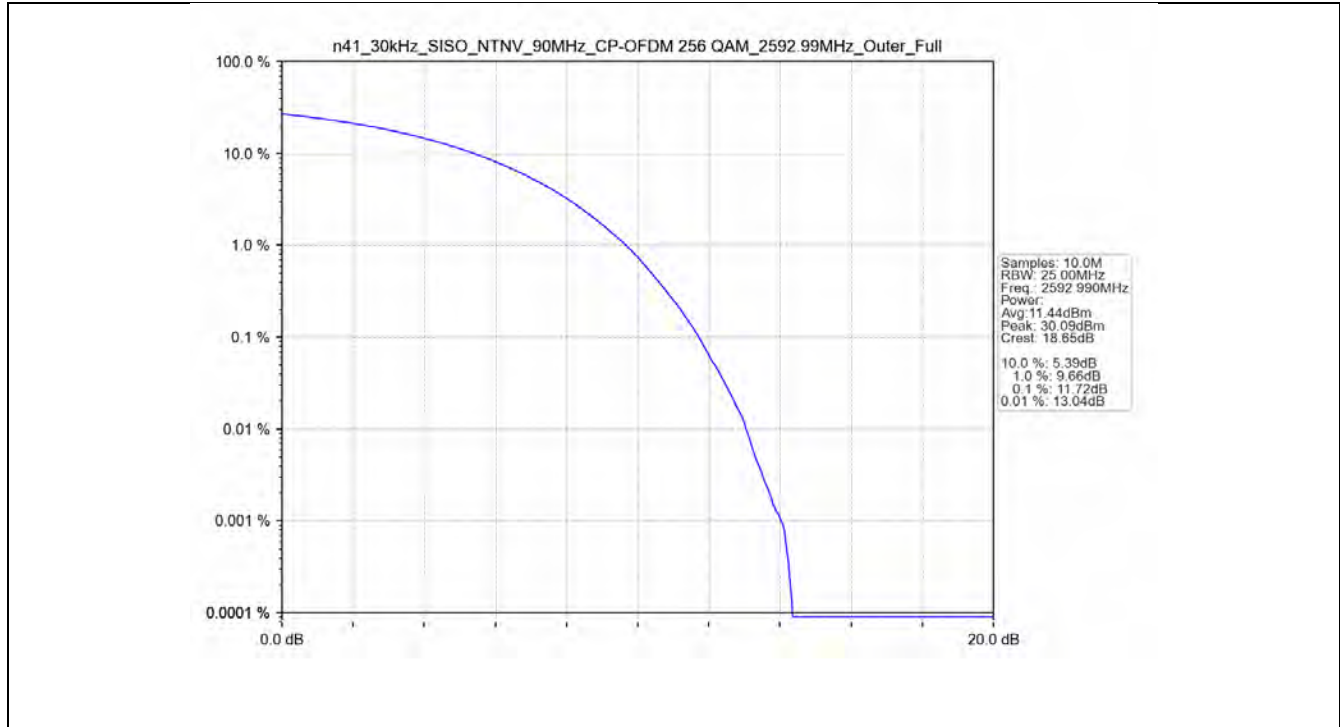


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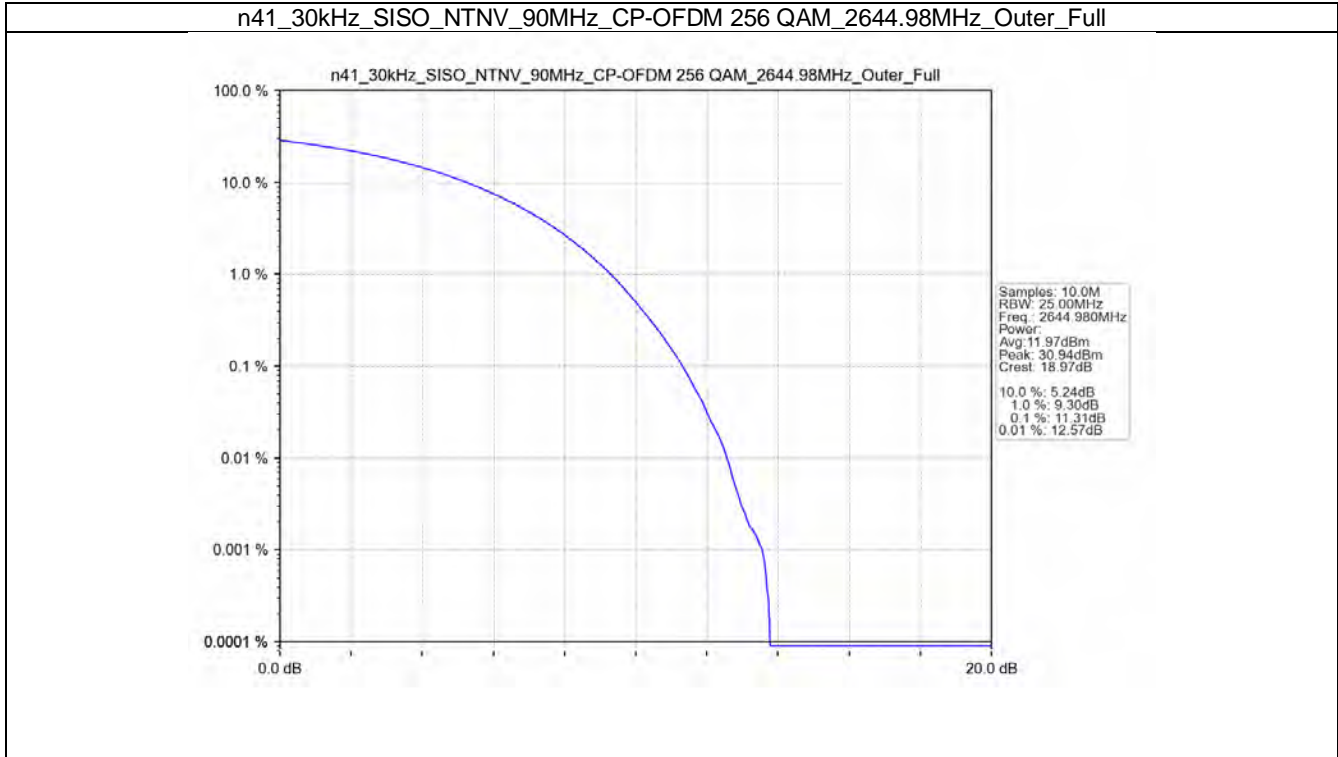


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4.8 30k_SISO_100MHz_NTNV

4.8.1 Test Result

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant0	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2546.01	Outer_Full	10.30	/	/	<=13	Pass
	2592.99	Outer_Full	9.81	/	/	<=13	Pass
	2640	Outer_Full	10.82	/	/	<=13	Pass
DFT-s-OFDM QPSK	2546.01	Outer_Full	11.03	/	/	<=13	Pass
	2592.99	Outer_Full	10.75	/	/	<=13	Pass
	2640	Outer_Full	10.84	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2546.01	Outer_Full	10.98	/	/	<=13	Pass
	2592.99	Outer_Full	11.34	/	/	<=13	Pass
	2640	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2546.01	Outer_Full	10.78	/	/	<=13	Pass
	2592.99	Outer_Full	10.90	/	/	<=13	Pass
	2640	Outer_Full	11.73	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2546.01	Outer_Full	11.25	/	/	<=13	Pass
	2592.99	Outer_Full	11.39	/	/	<=13	Pass
	2640	Outer_Full	11.13	/	/	<=13	Pass
CP-OFDM QPSK	2546.01	Outer_Full	11.43	/	/	<=13	Pass
	2592.99	Outer_Full	11.72	/	/	<=13	Pass
	2640	Outer_Full	11.55	/	/	<=13	Pass
CP-OFDM 16 QAM	2546.01	Outer_Full	11.54	/	/	<=13	Pass
	2592.99	Outer_Full	11.79	/	/	<=13	Pass
	2640	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 64 QAM	2546.01	Outer_Full	11.54	/	/	<=13	Pass
	2592.99	Outer_Full	11.78	/	/	<=13	Pass
	2640	Outer_Full	12.13	/	/	<=13	Pass
CP-OFDM 256 QAM	2546.01	Outer_Full	12.46	/	/	<=13	Pass
	2592.99	Outer_Full	12.07	/	/	<=13	Pass
	2640	Outer_Full	11.85	/	/	<=13	Pass



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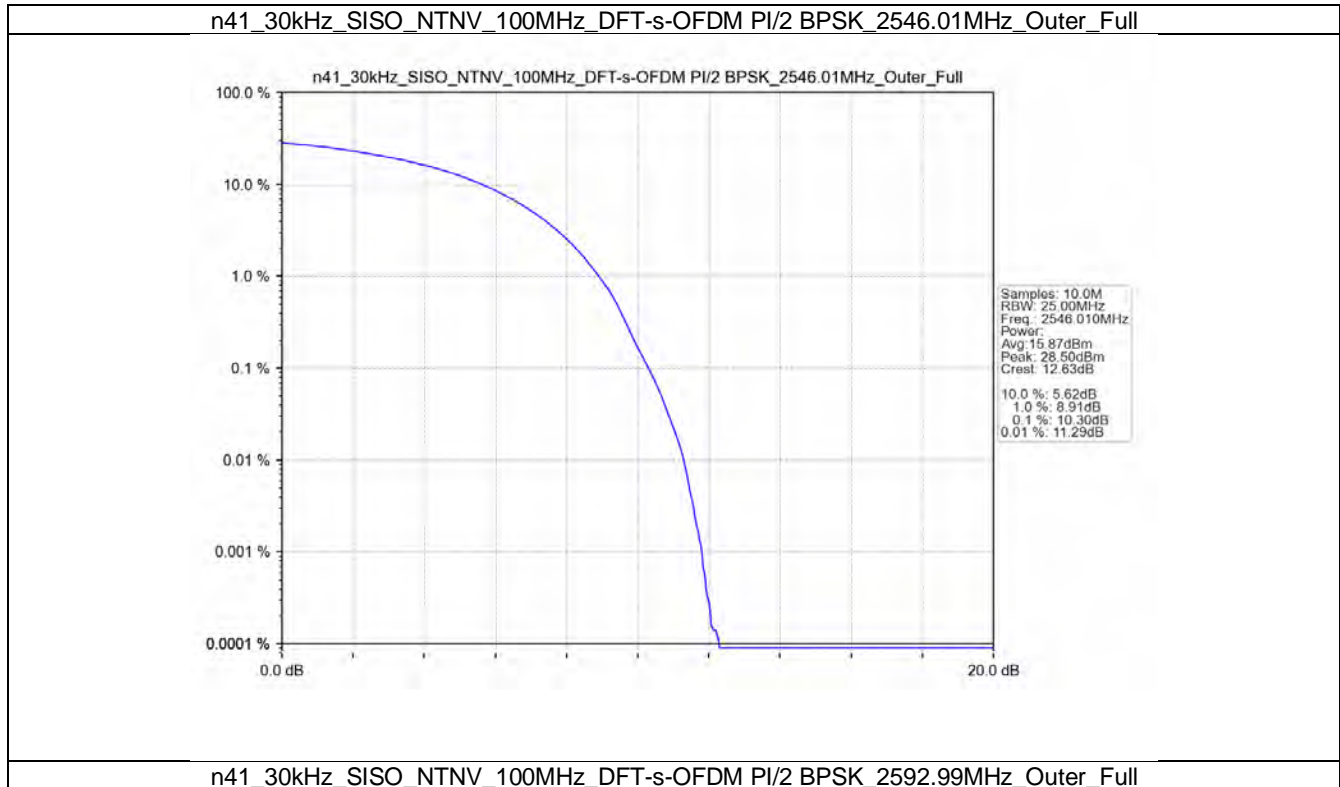
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4.8.2 Test Graph



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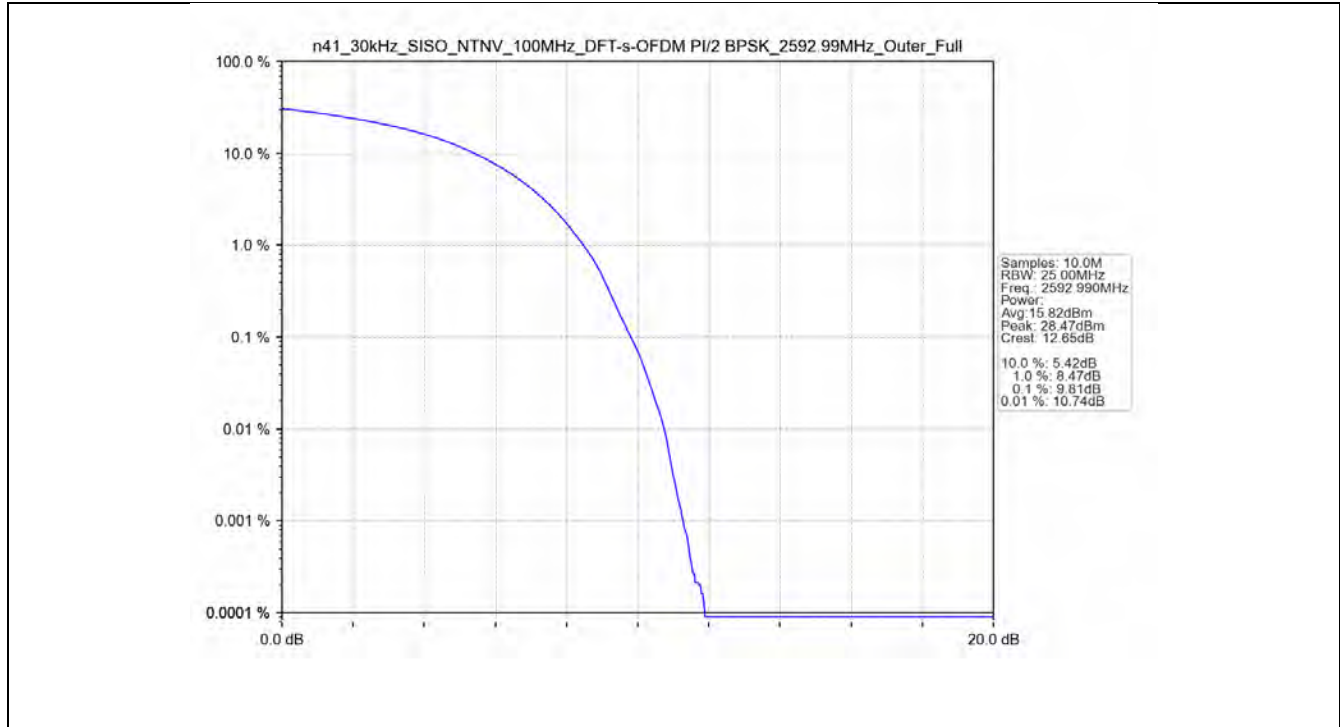


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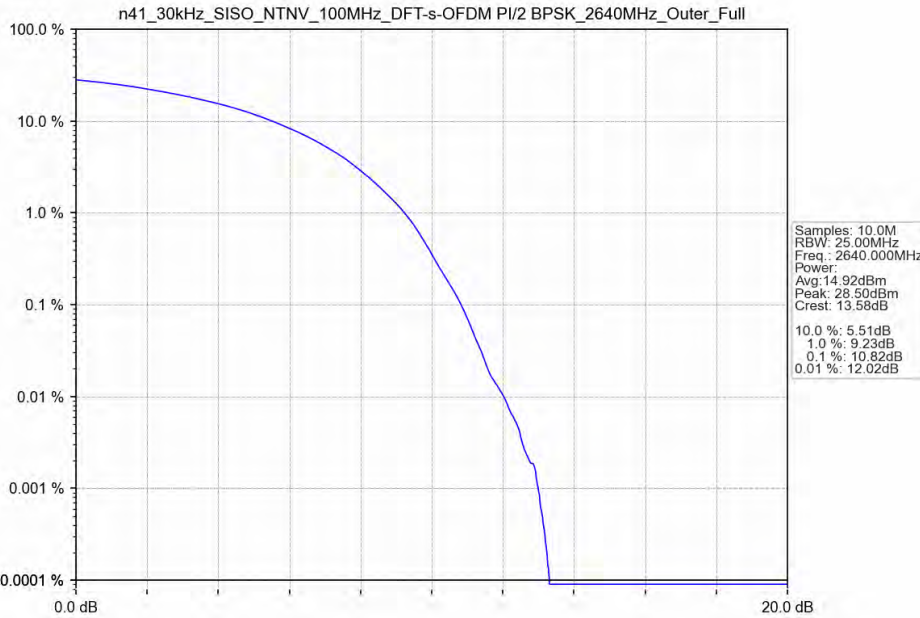
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_2640MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_2546.01MHz_Outer_Full



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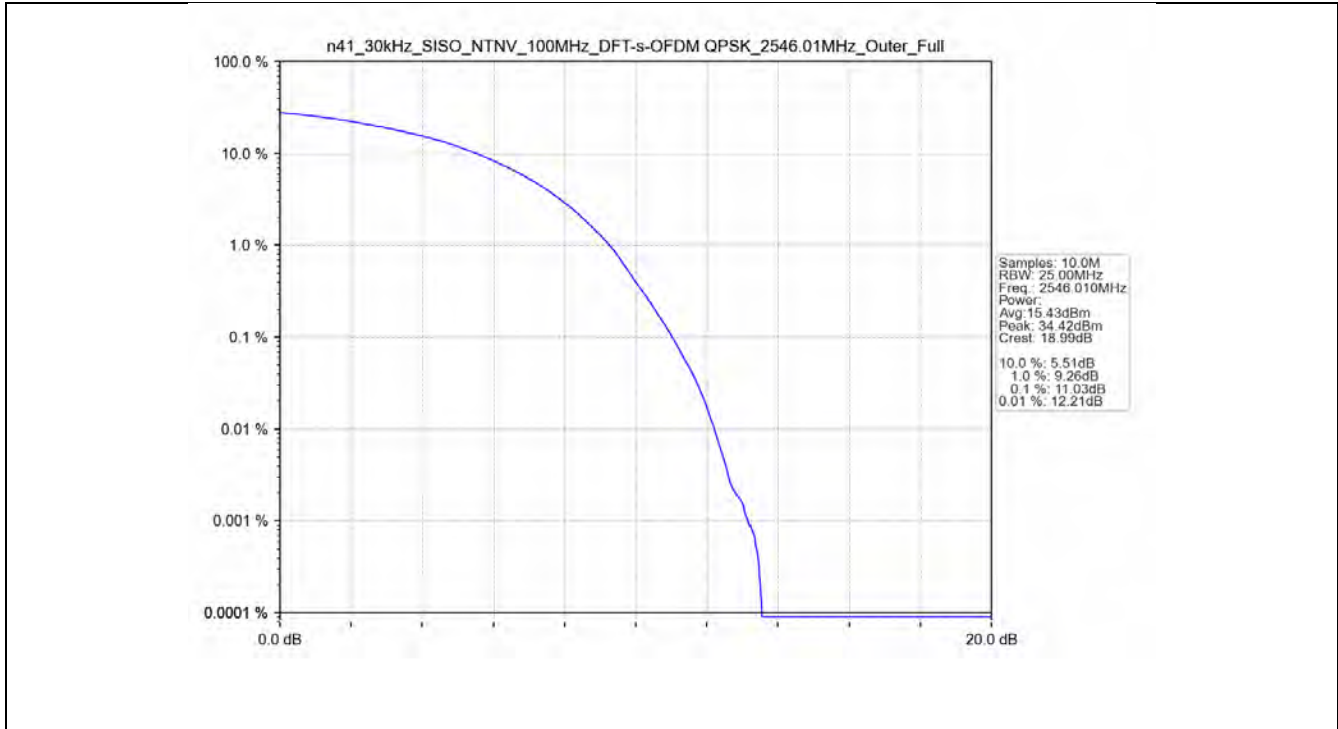


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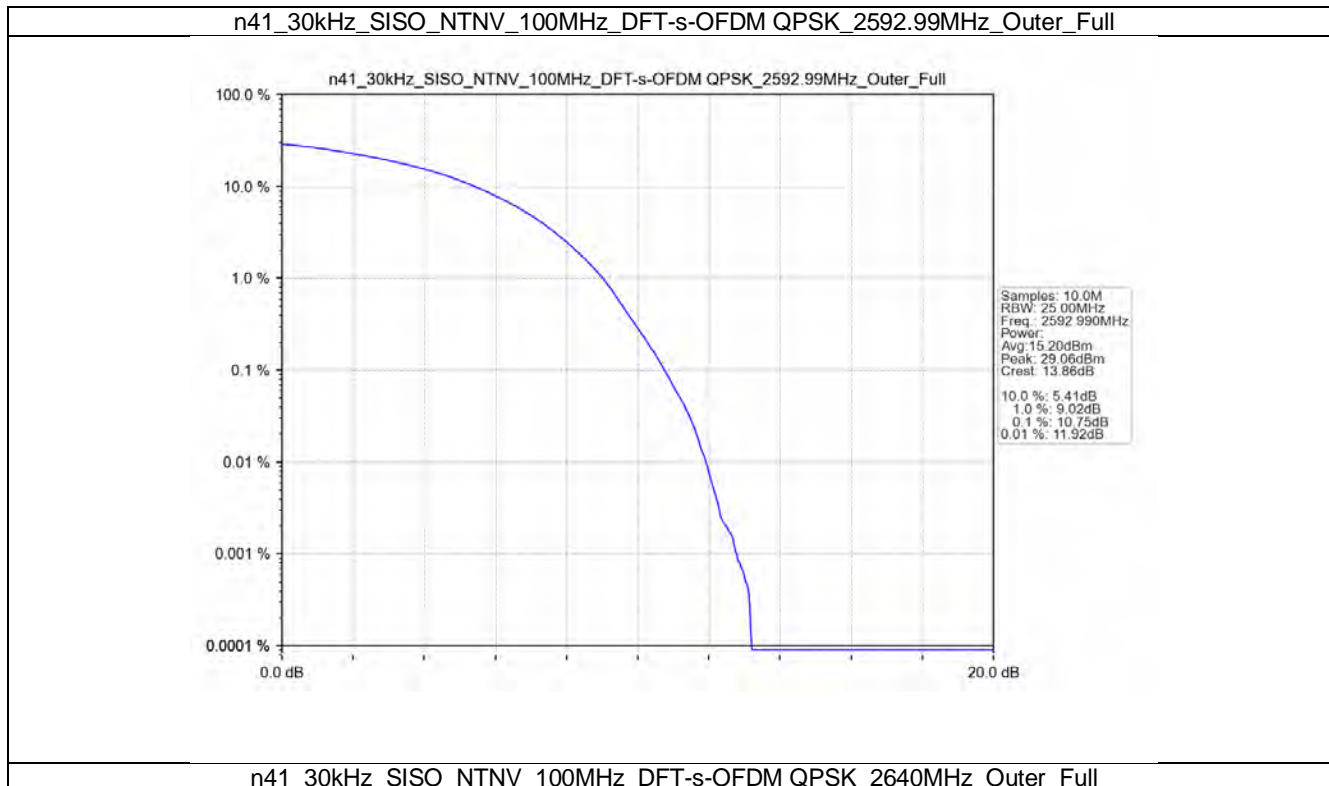
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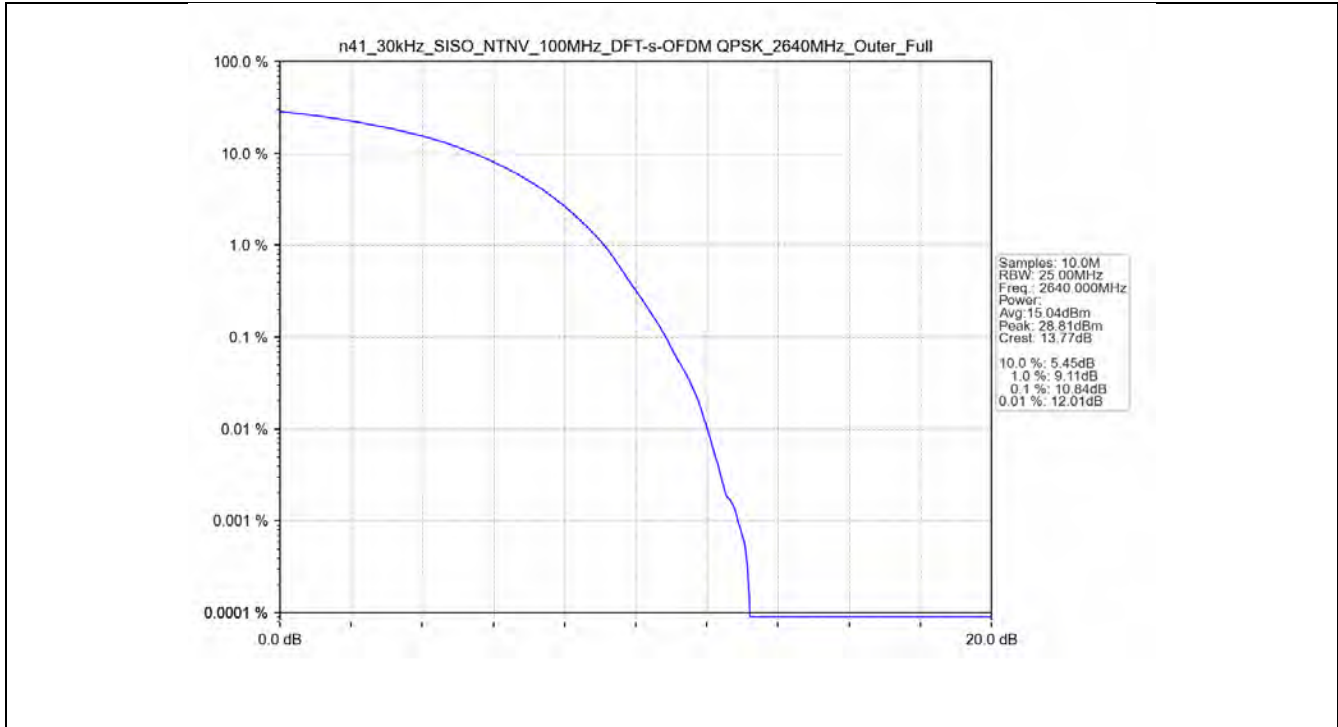


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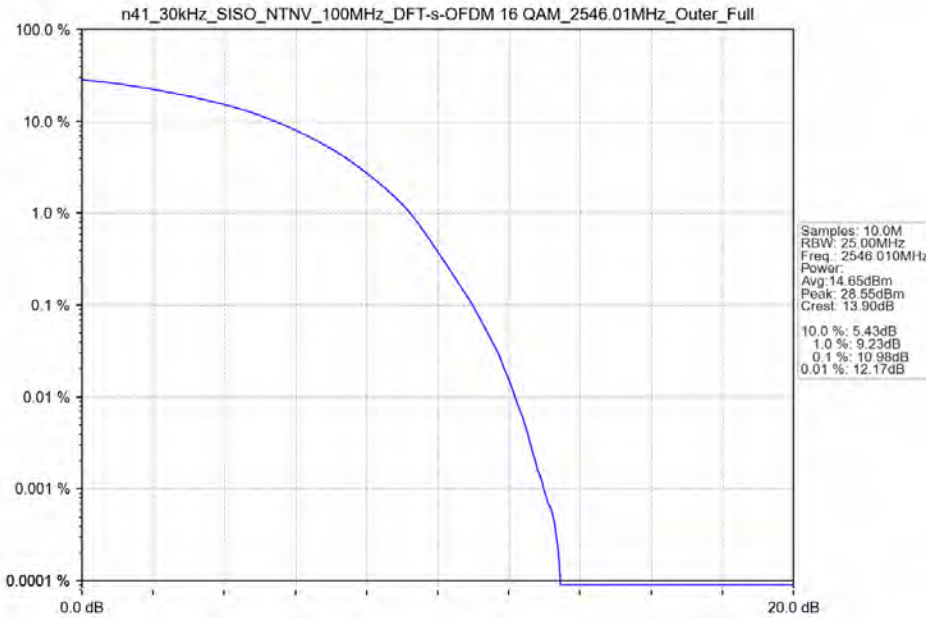
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_16_QAM_2546.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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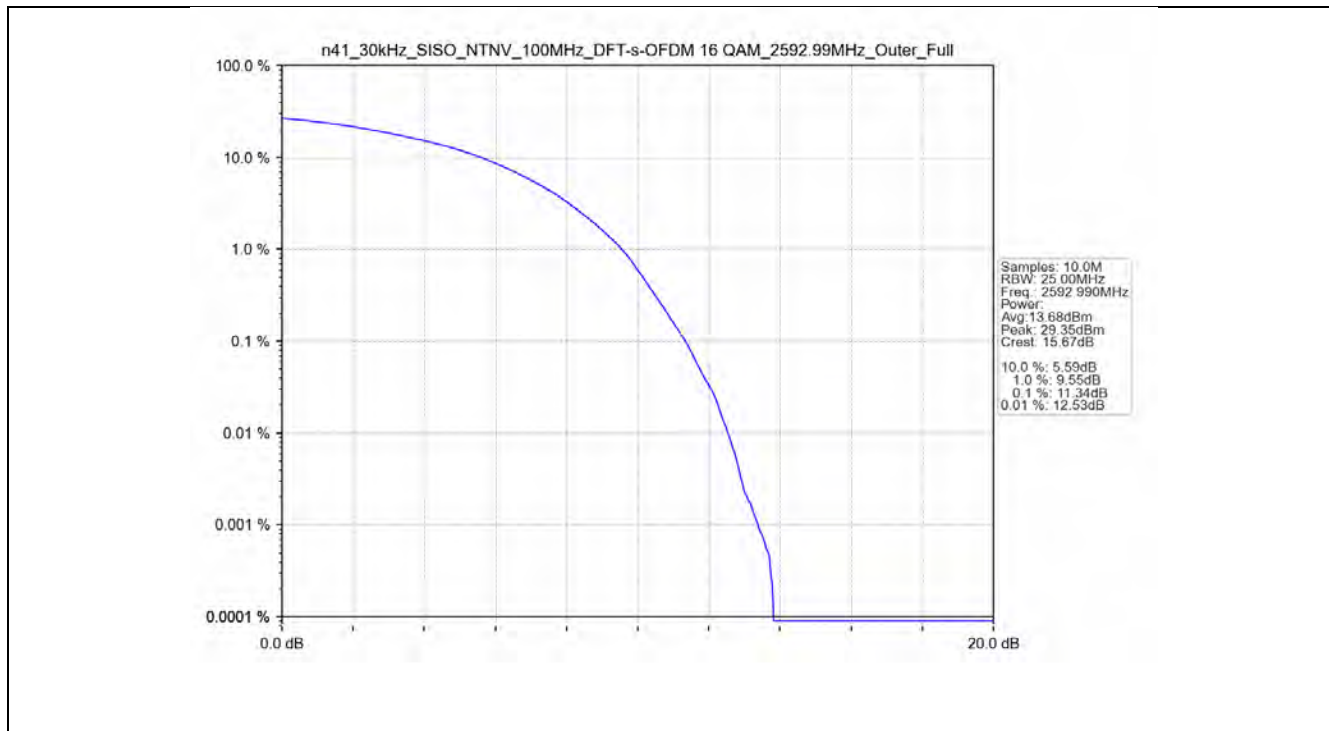
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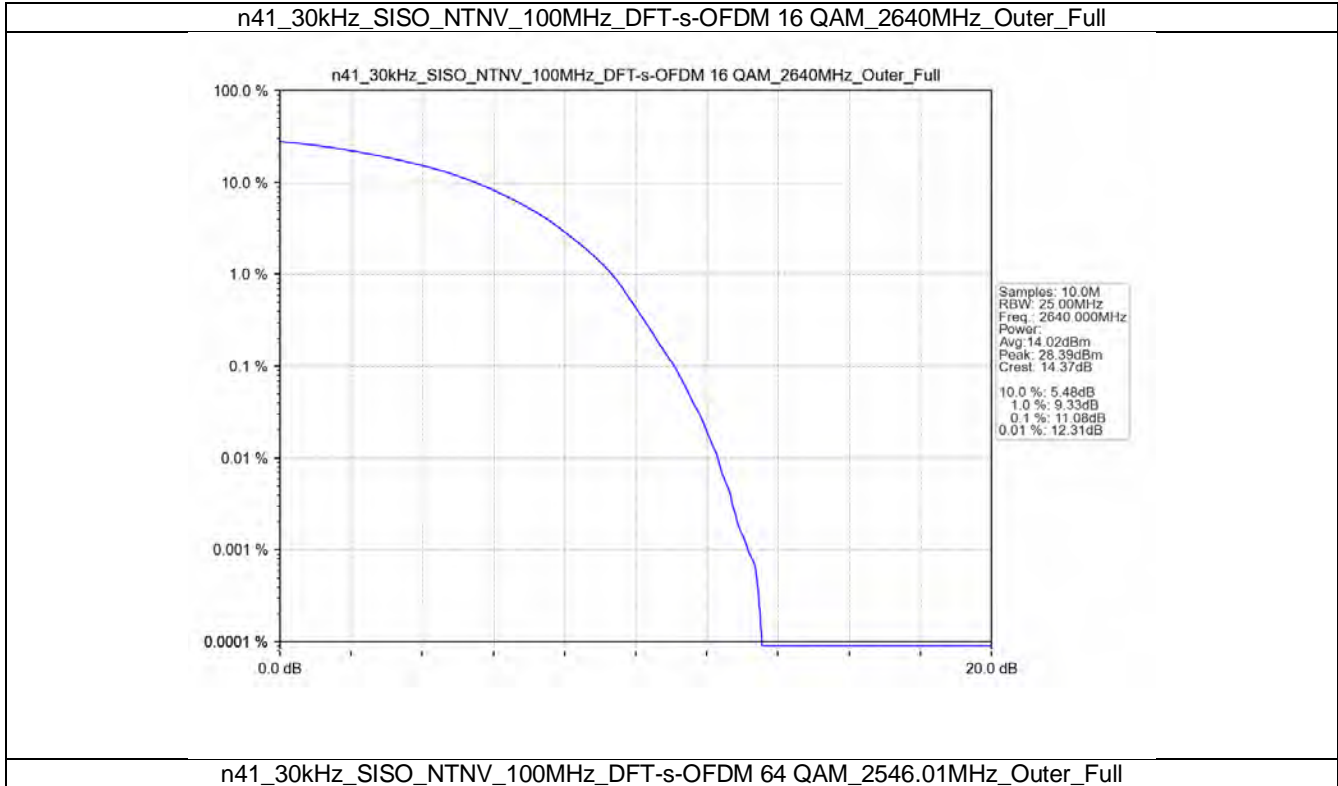


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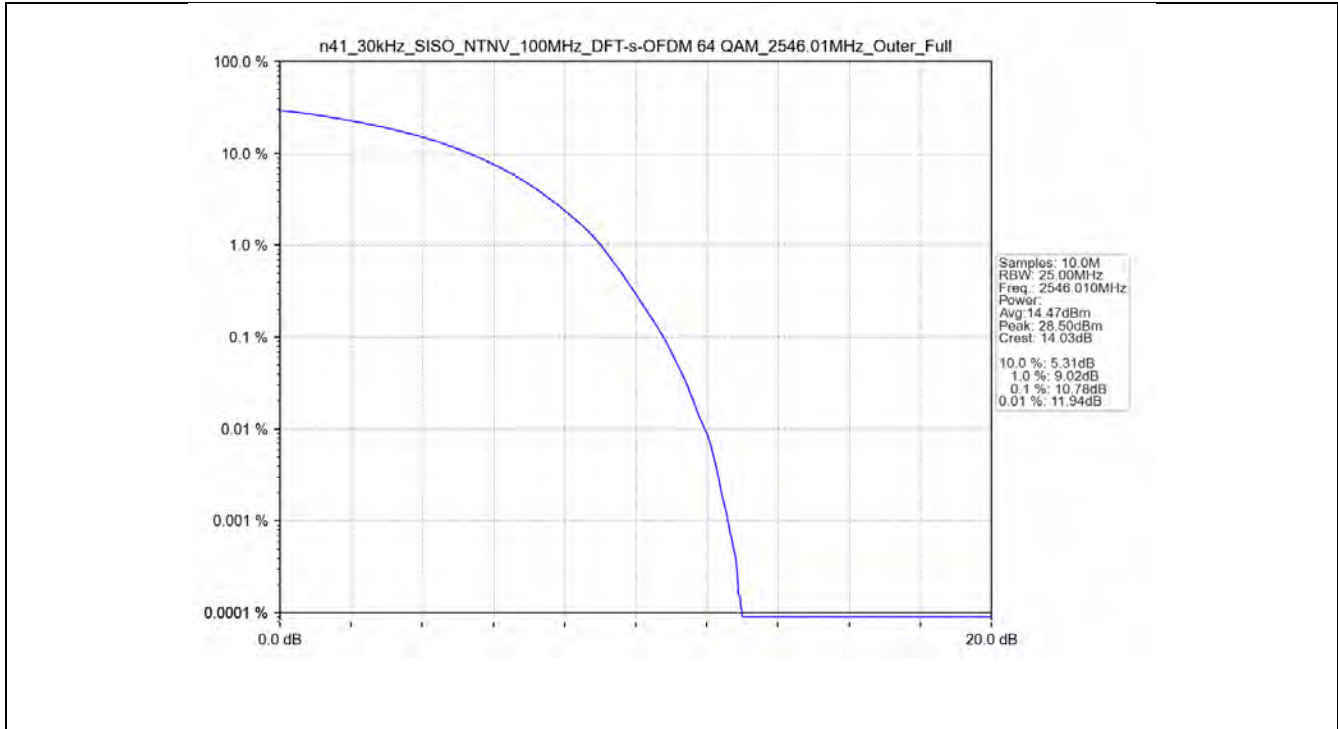


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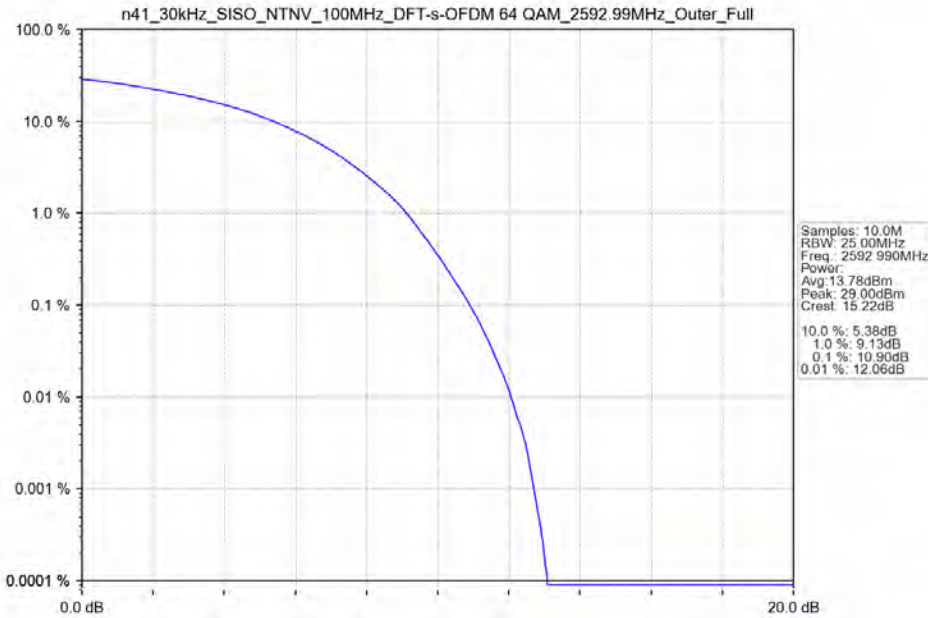
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_2640MHz_Outer_Full



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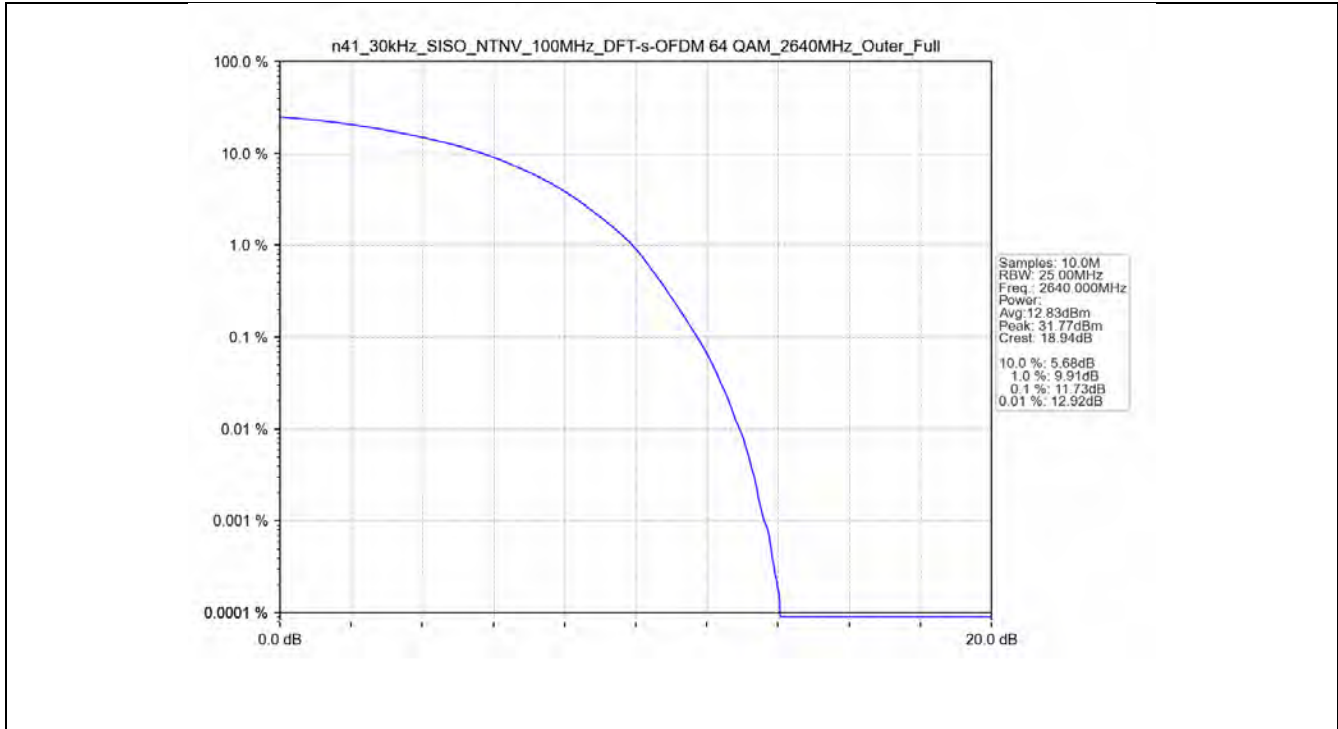


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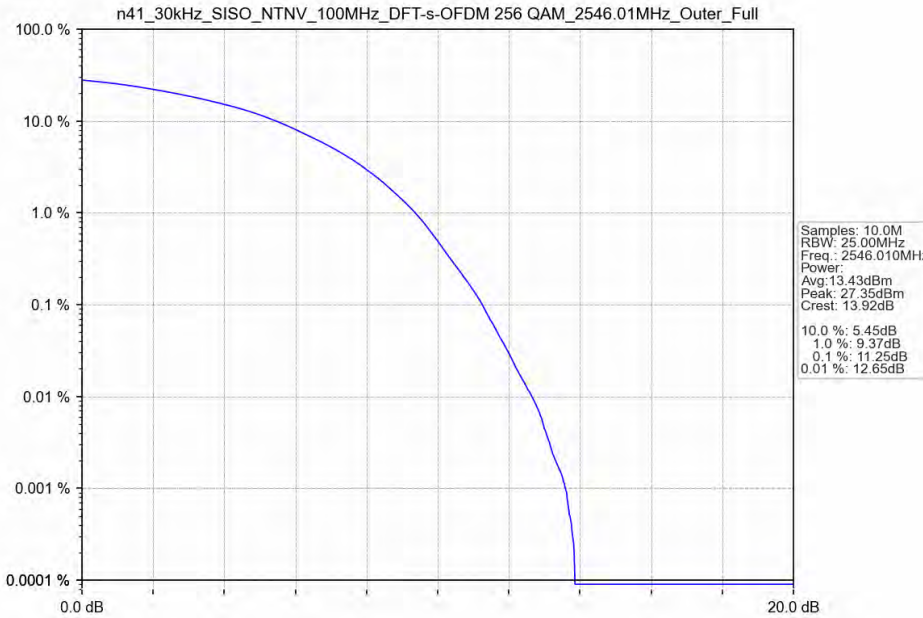
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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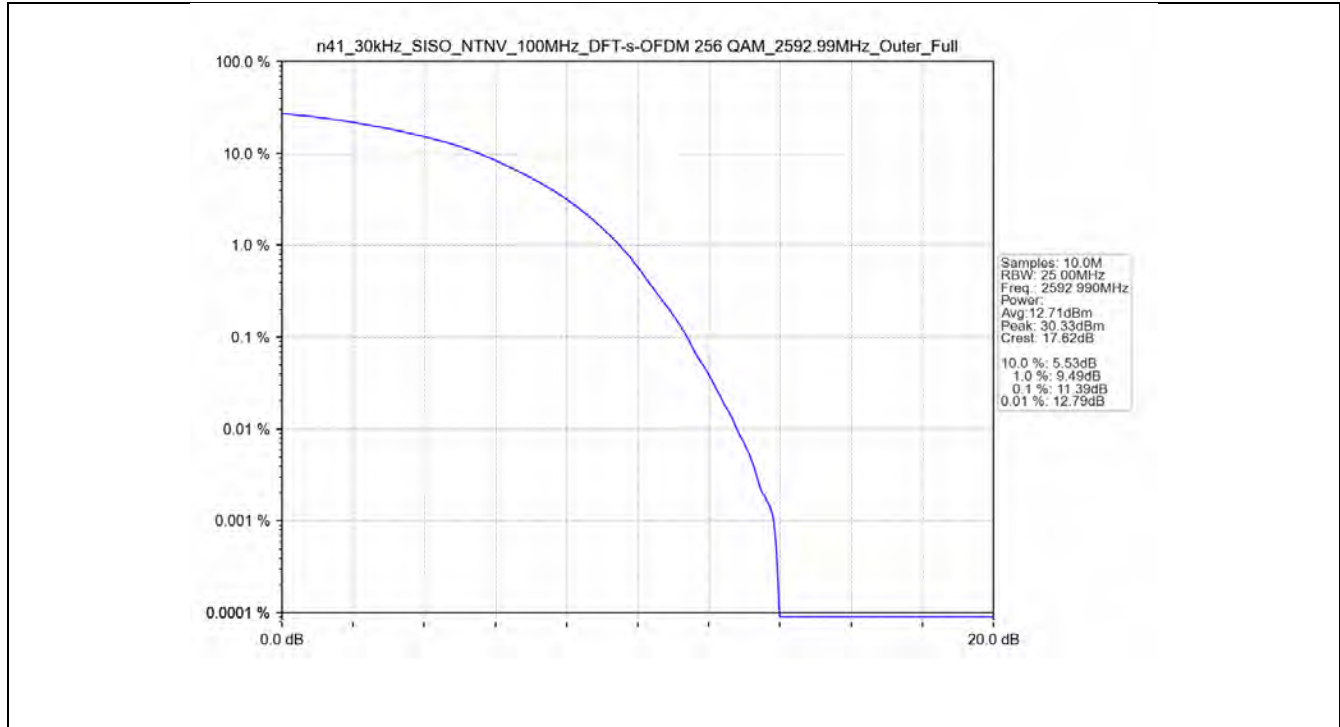


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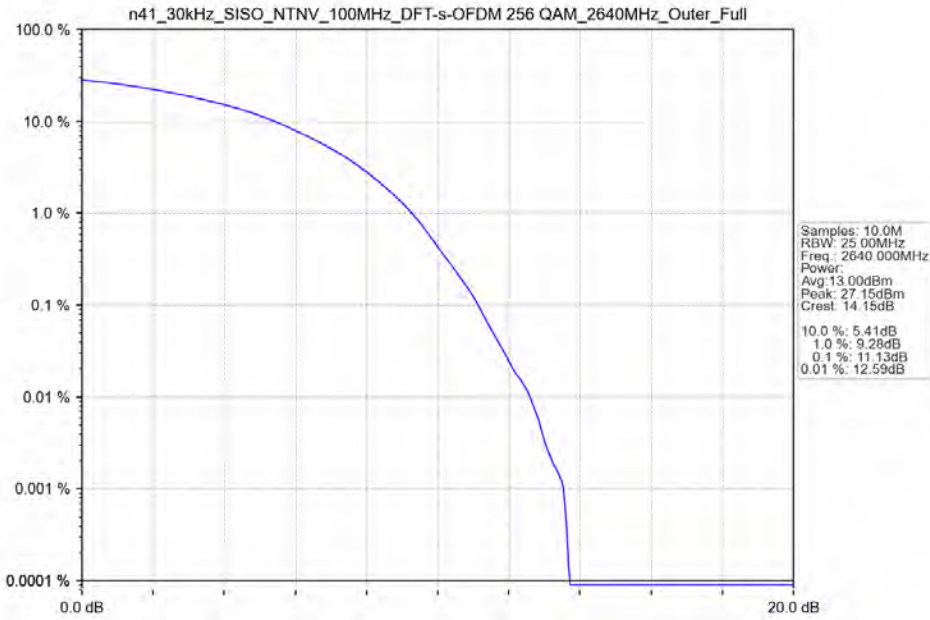
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_2546.01MHz_Outer_Full



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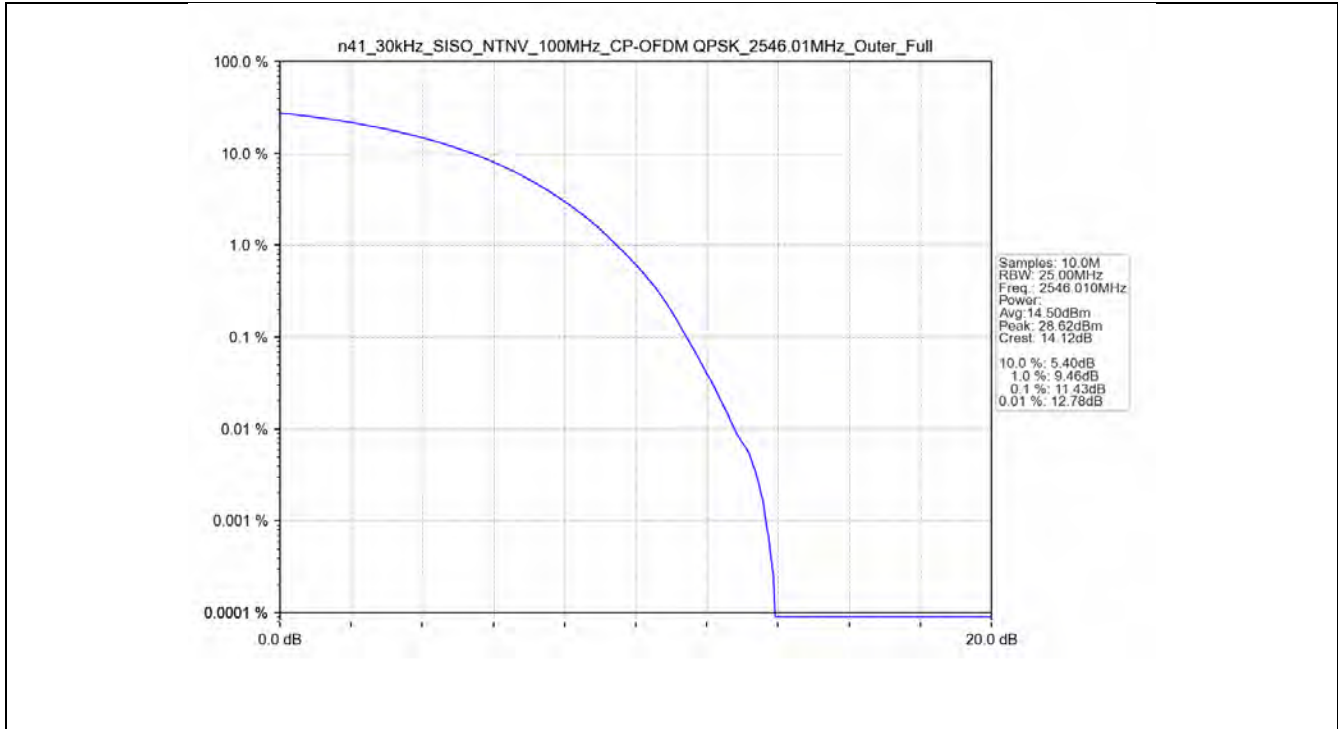


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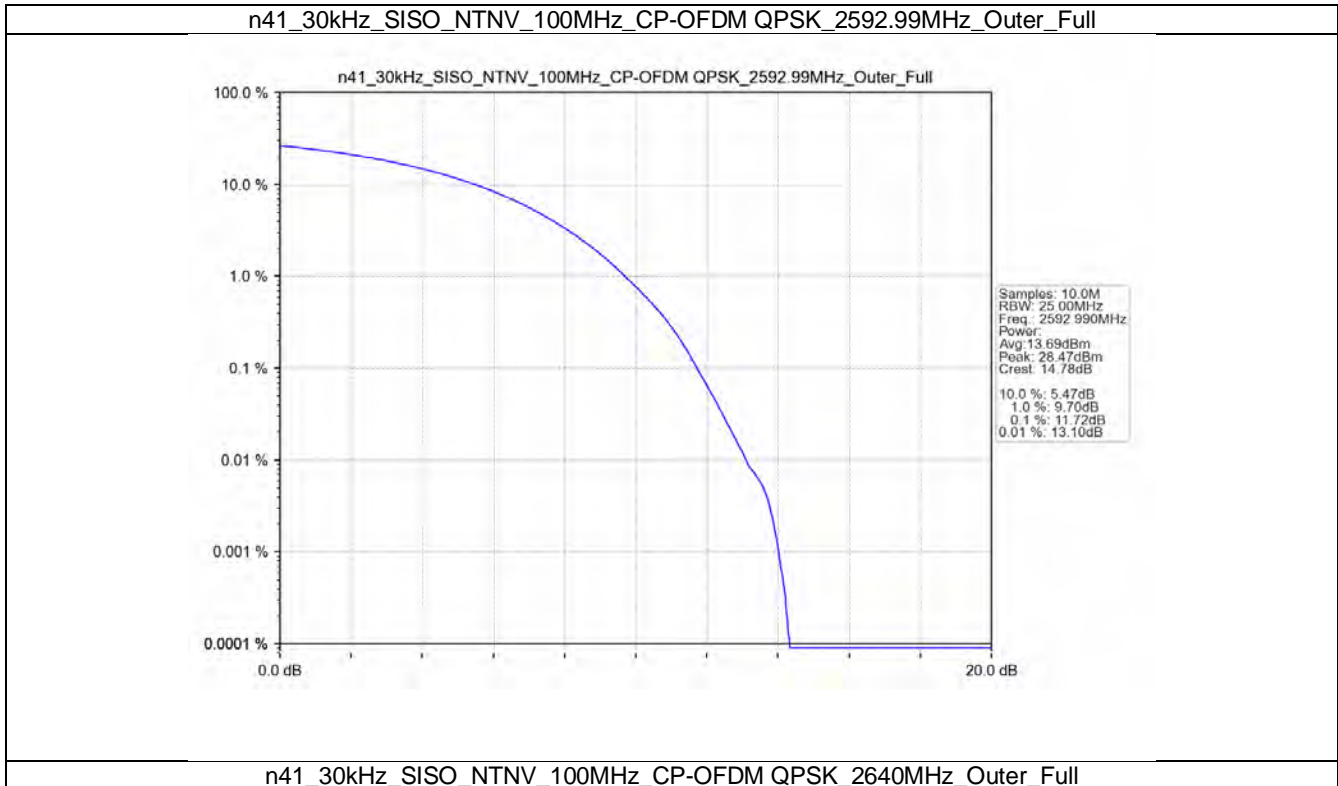


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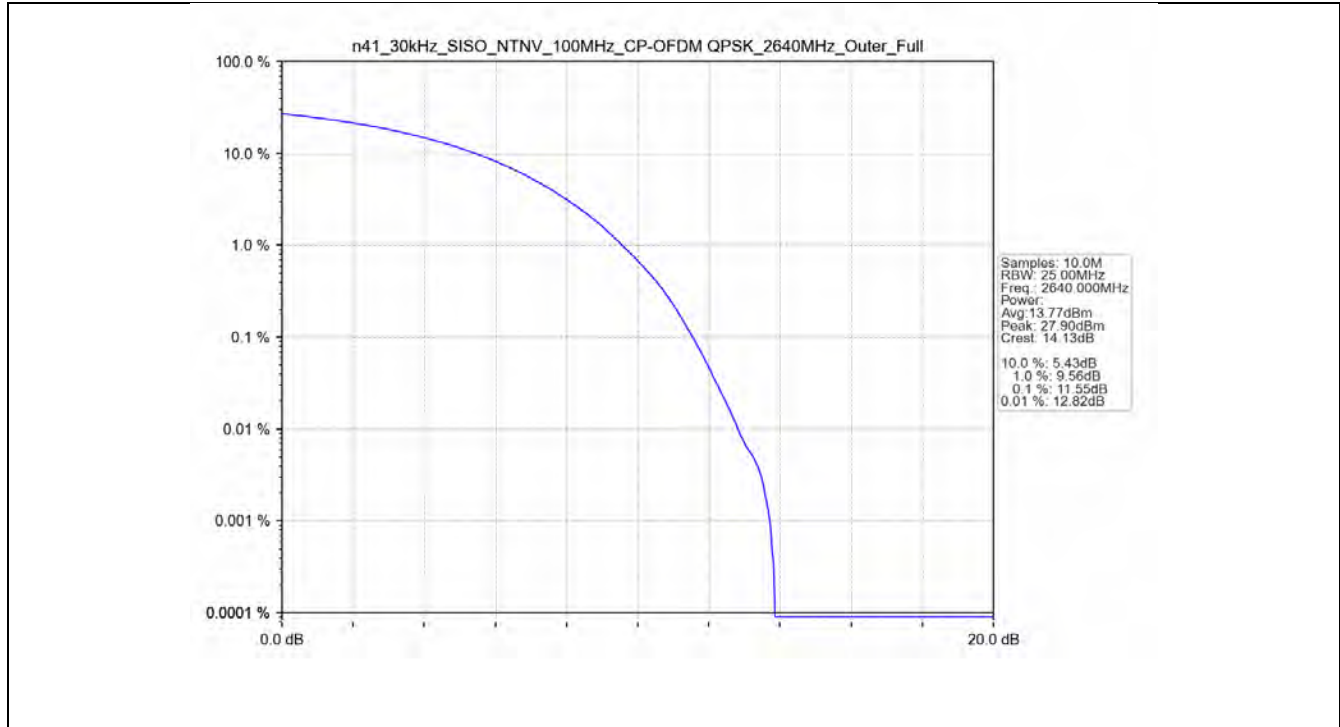


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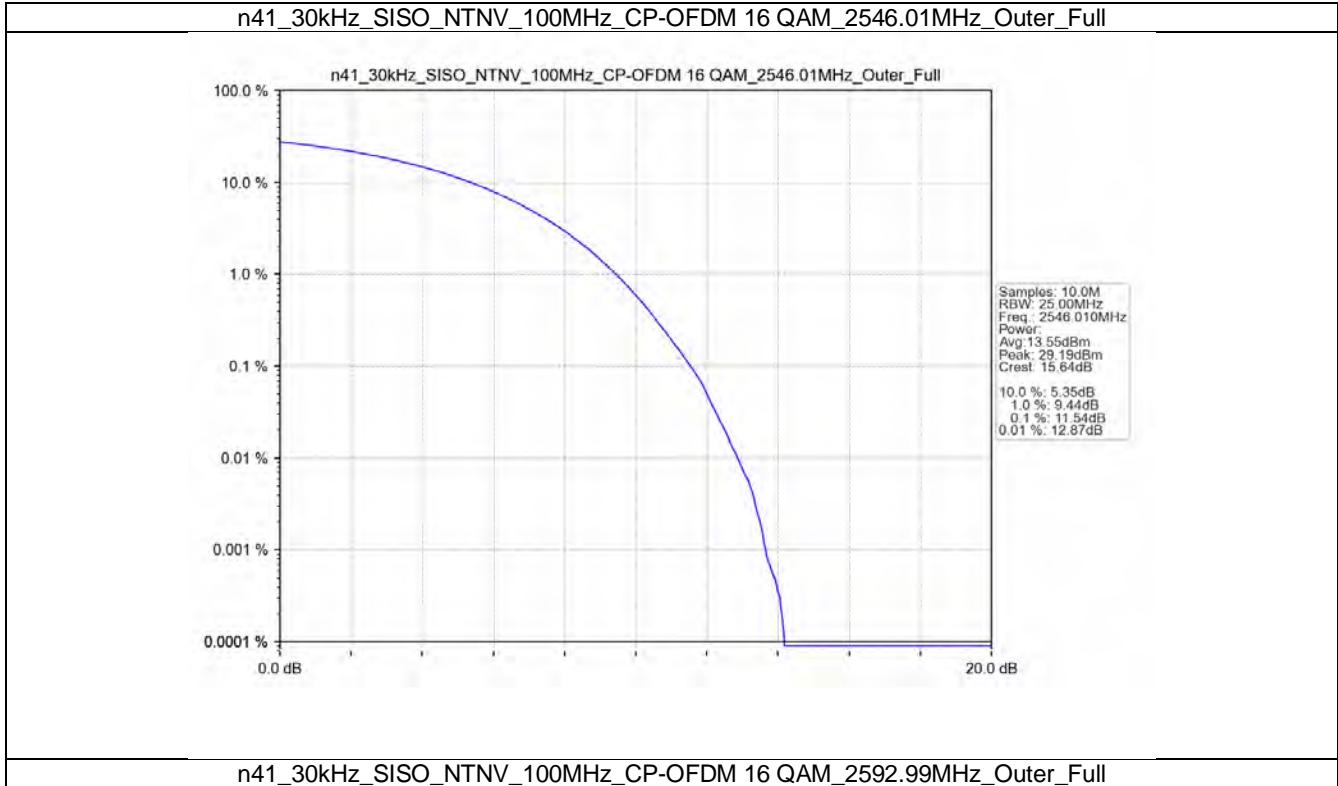


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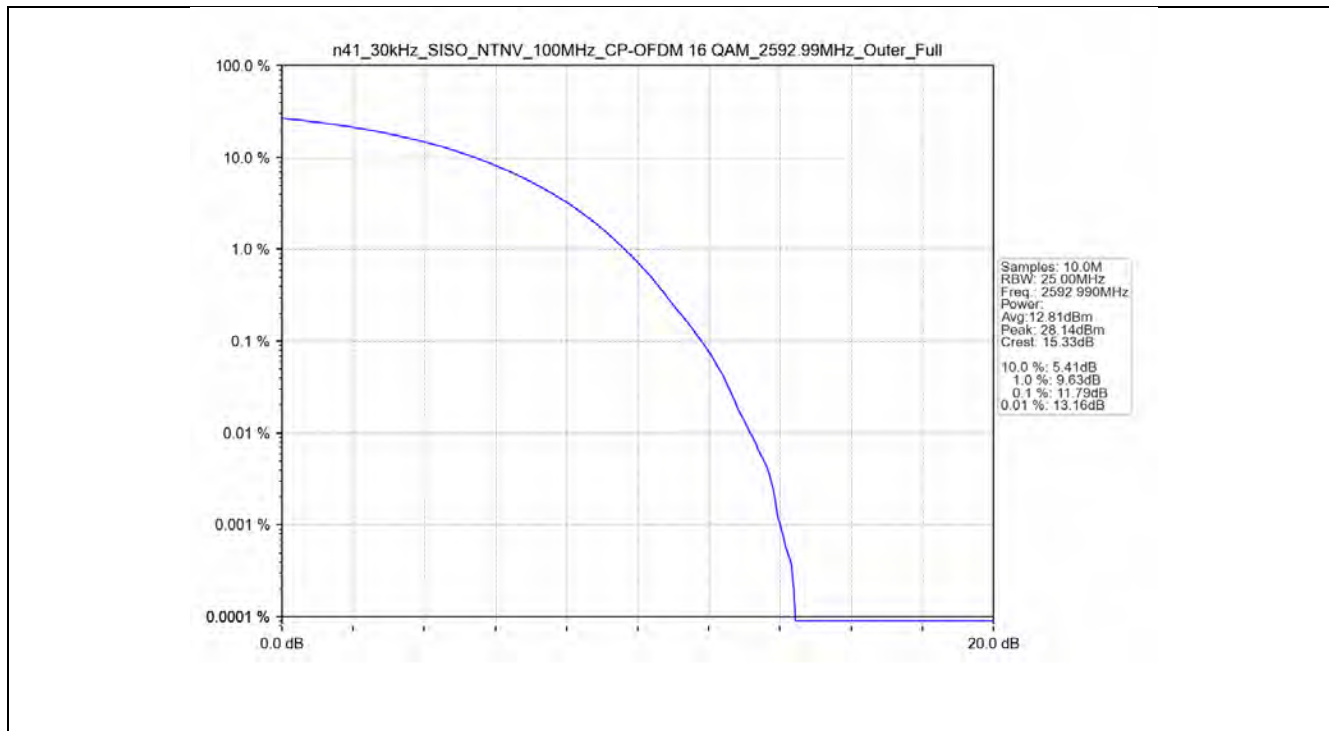
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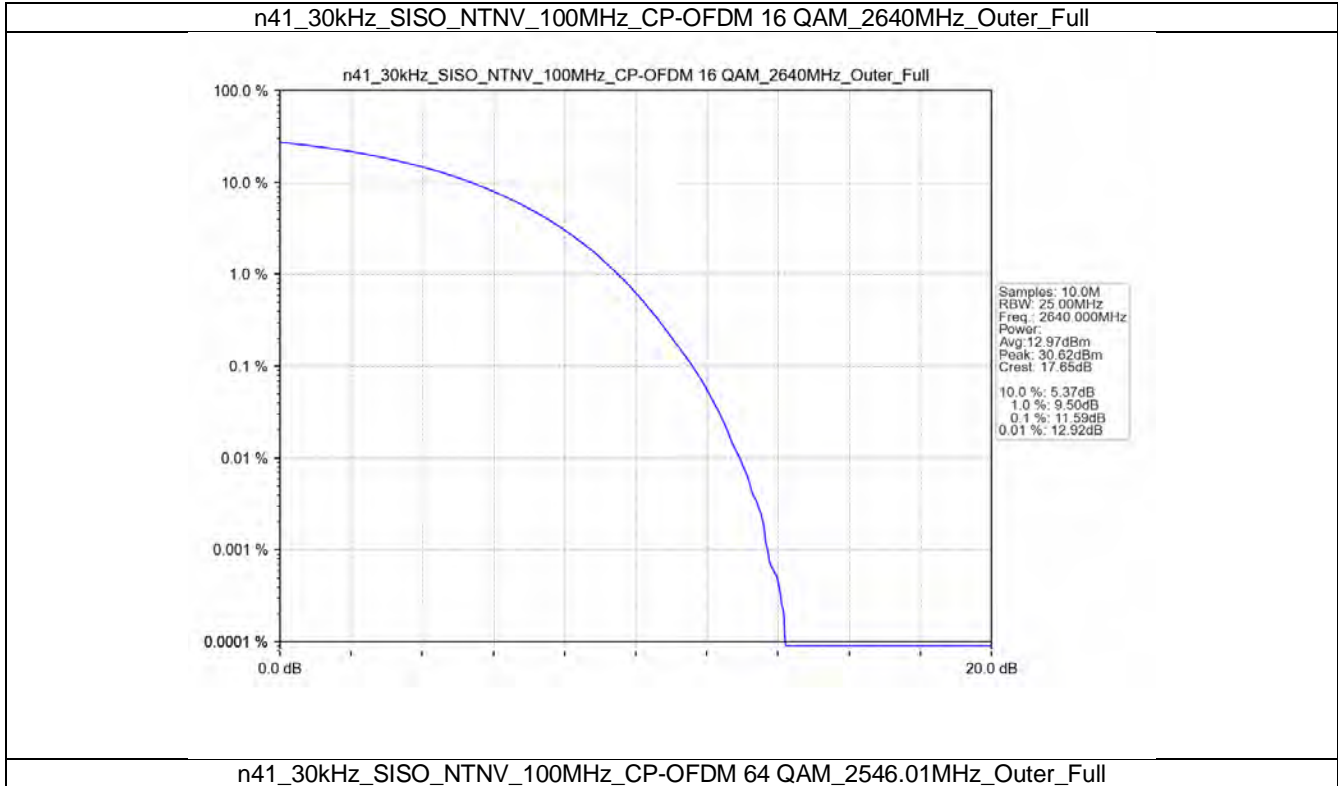


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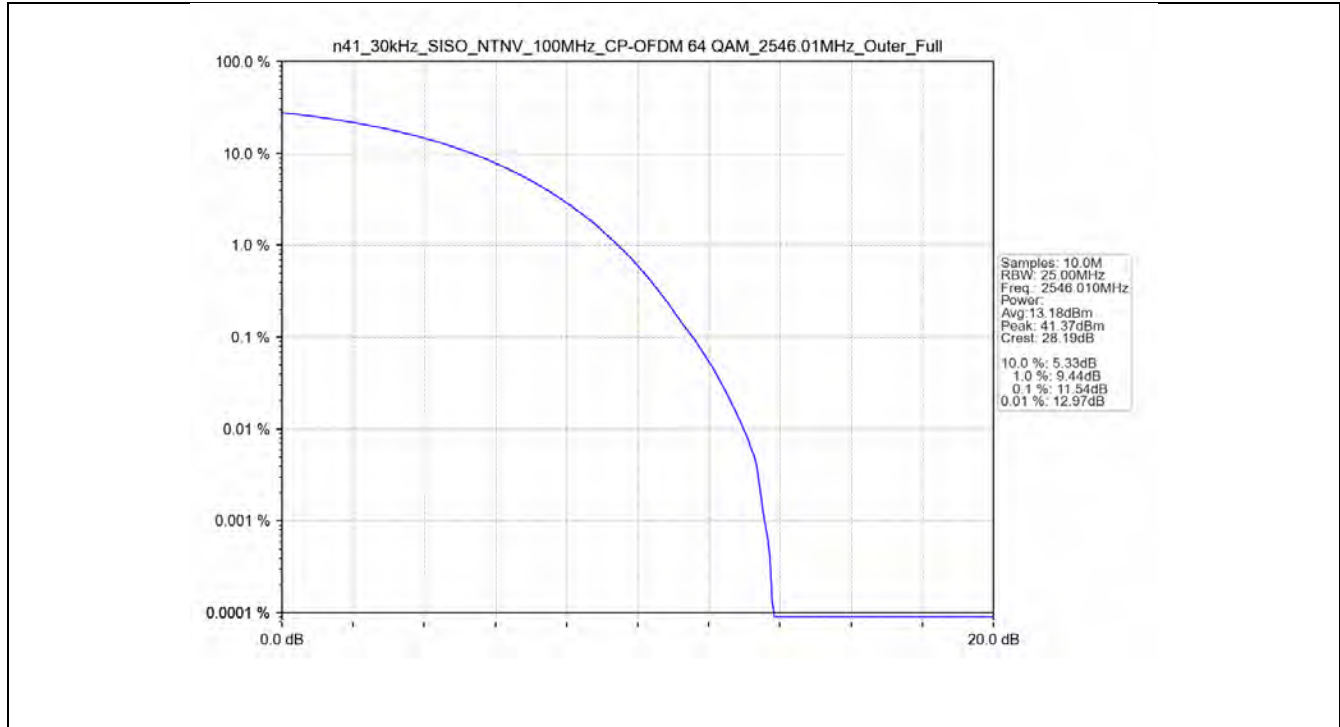


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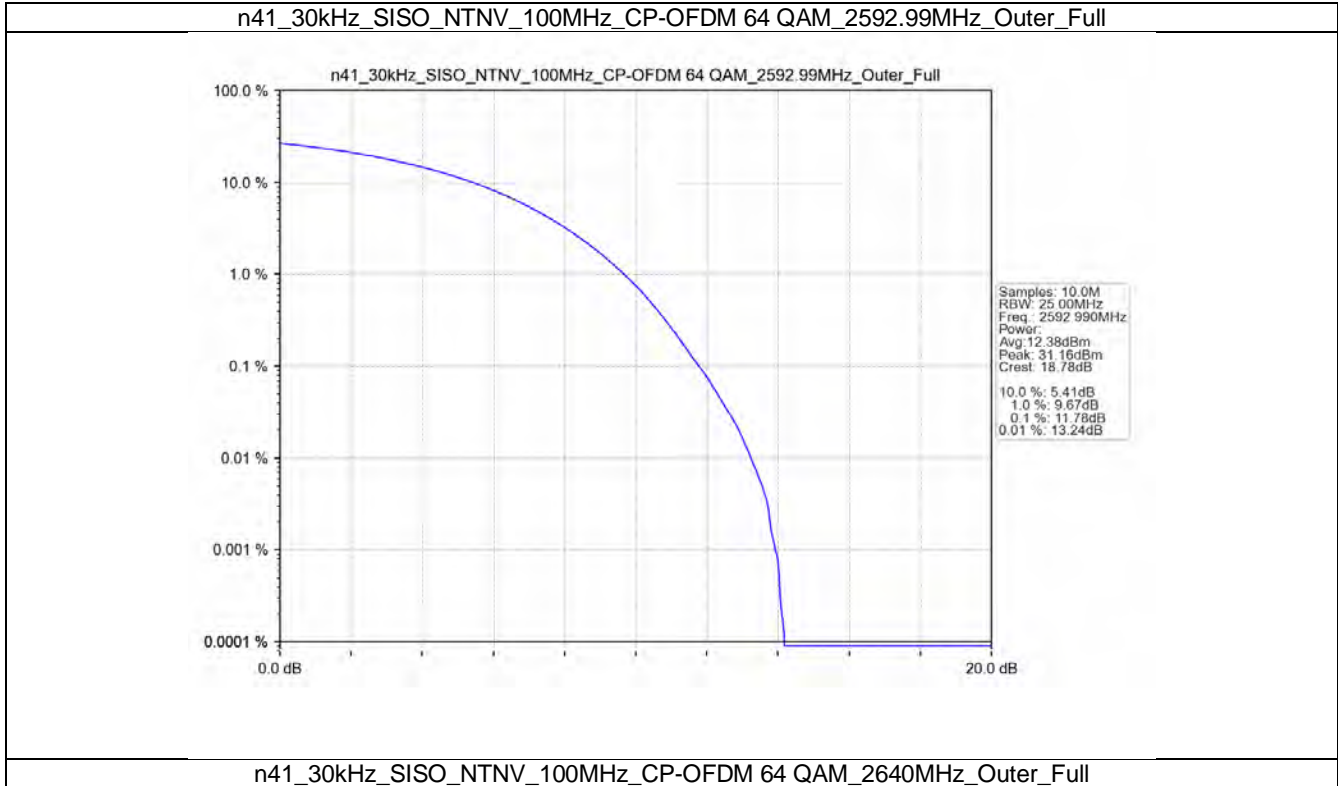


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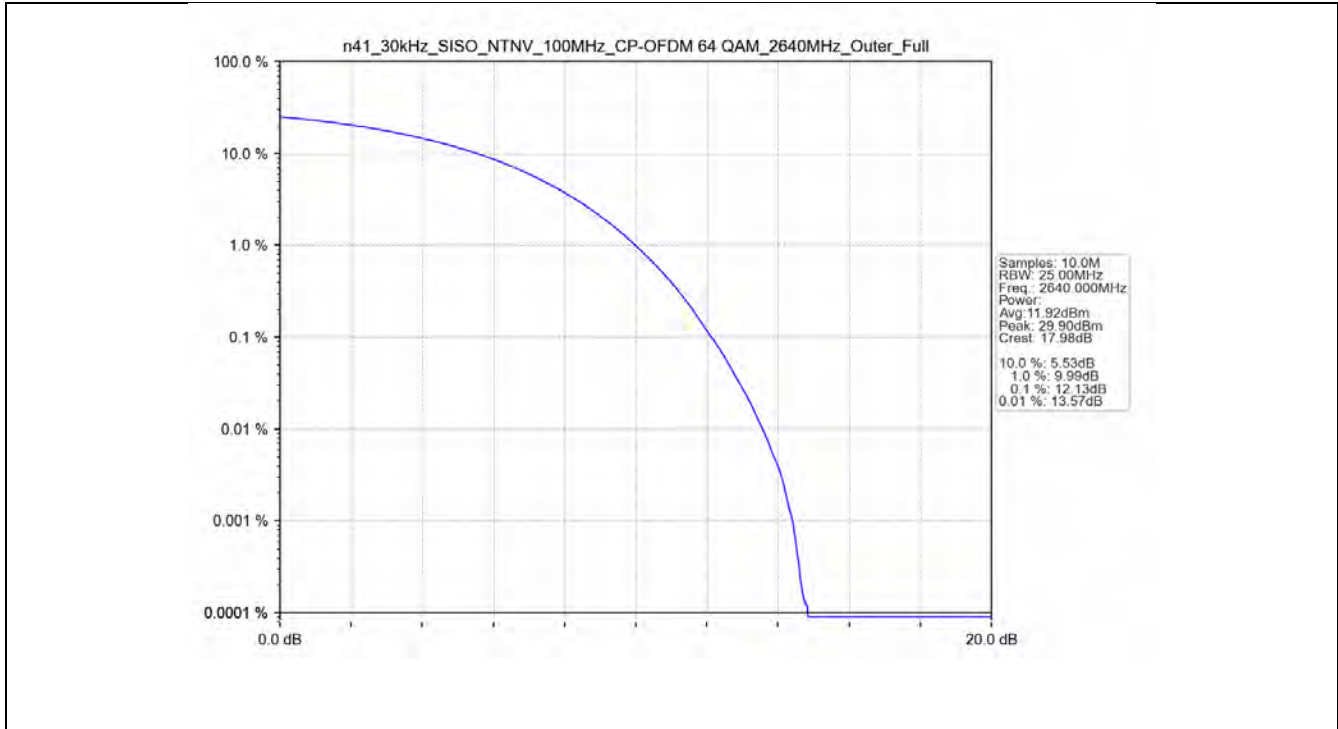


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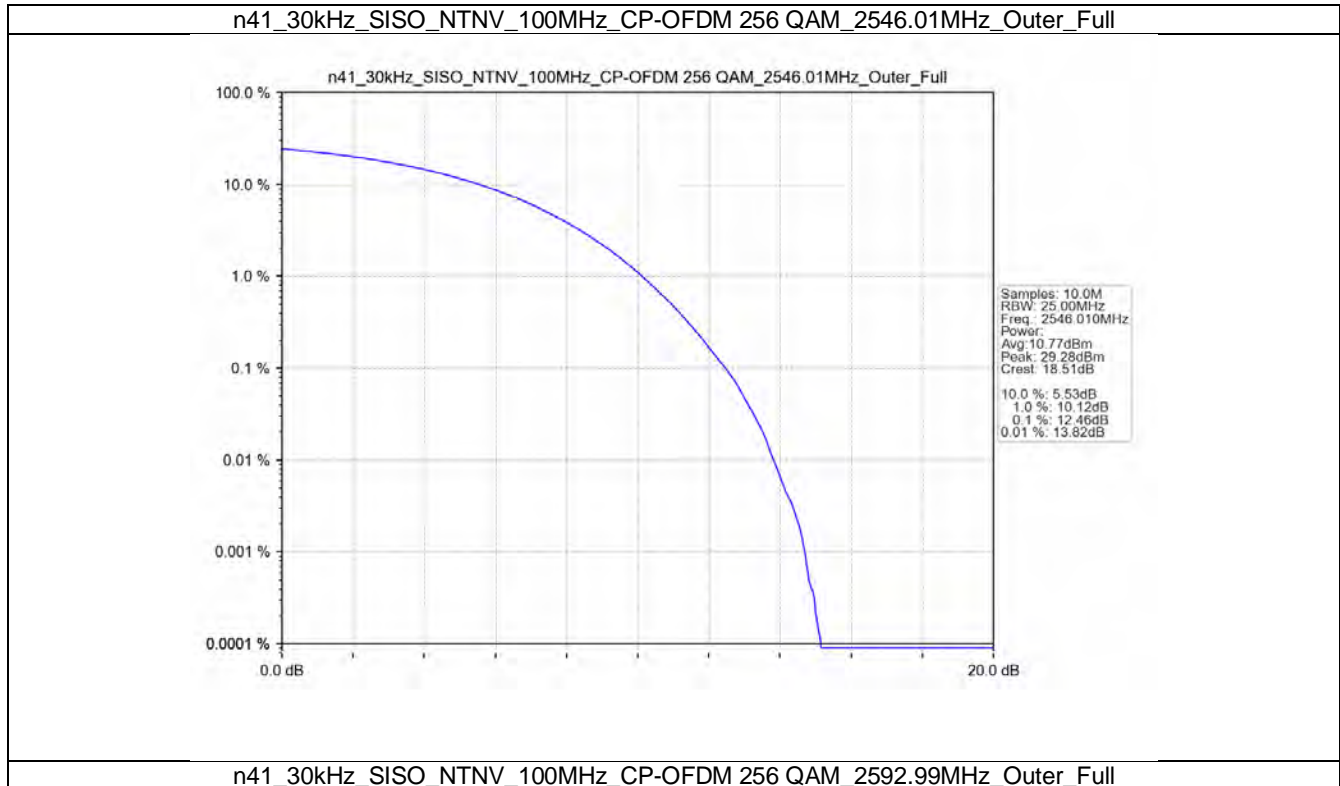


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