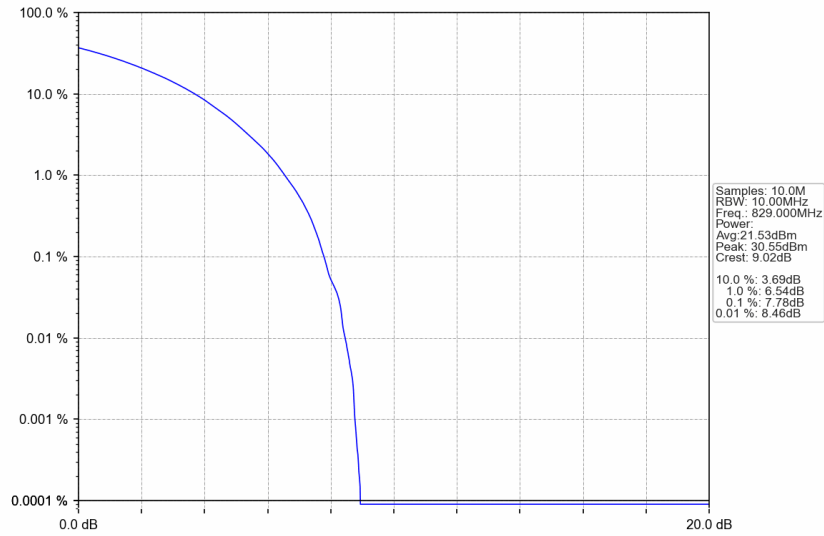
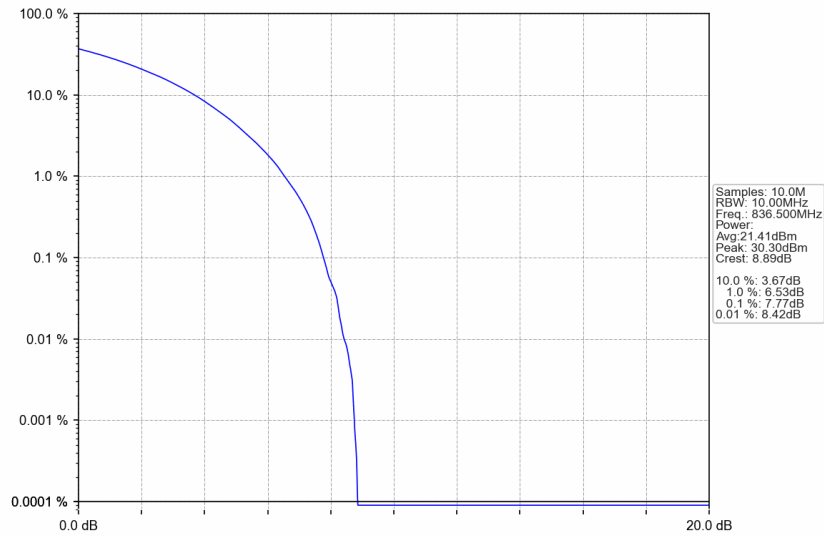


n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_836.5MHz_Outer_Full

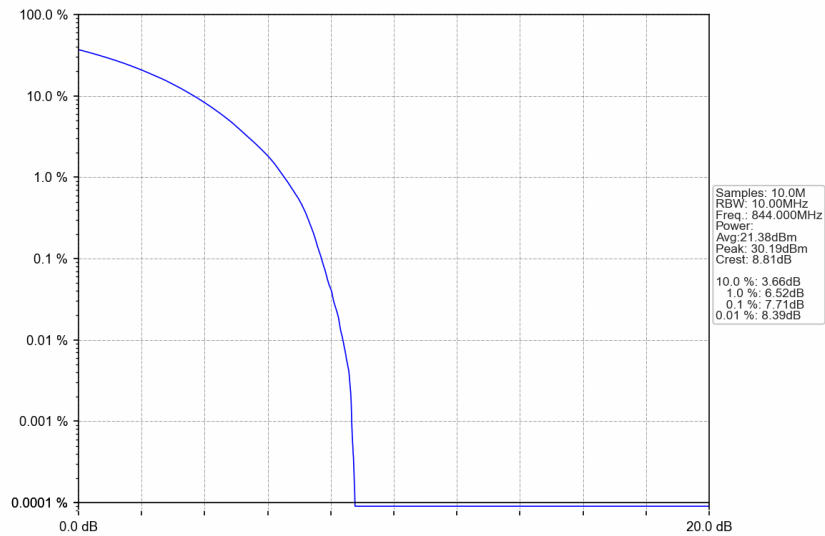


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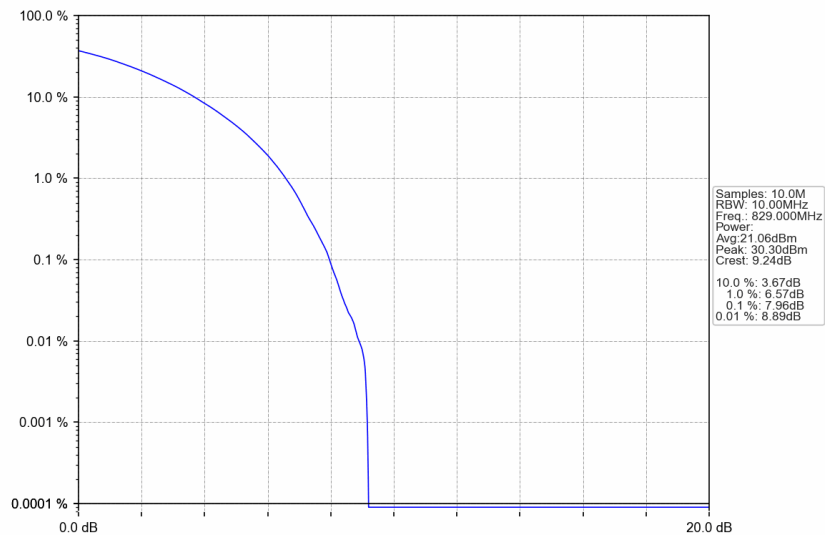
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_829MHz_Outer_Full

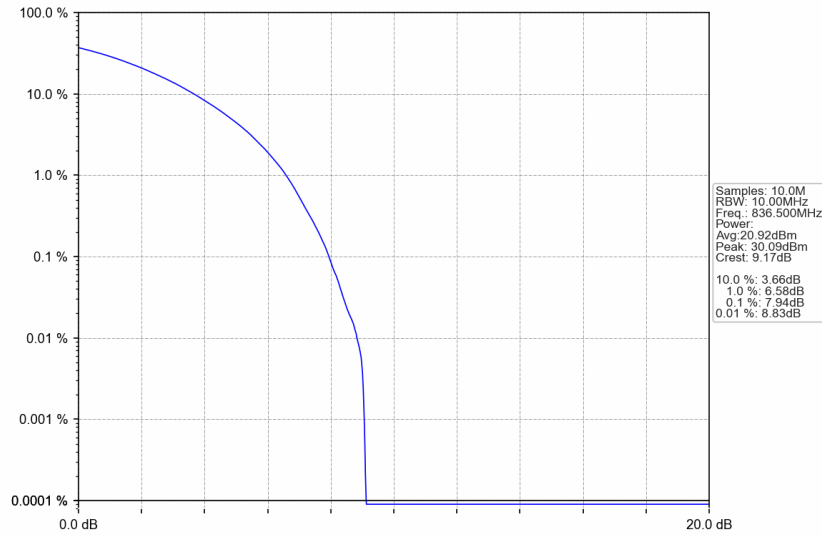


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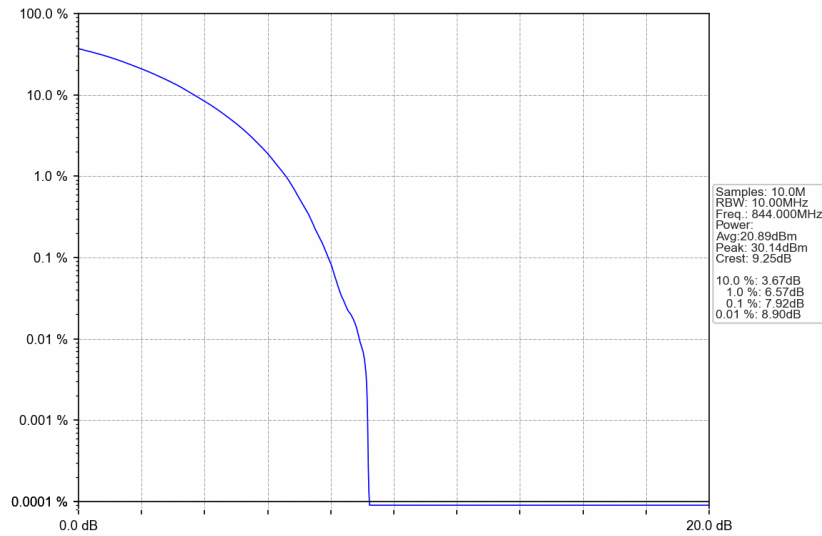
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_844MHz_Outer_Full



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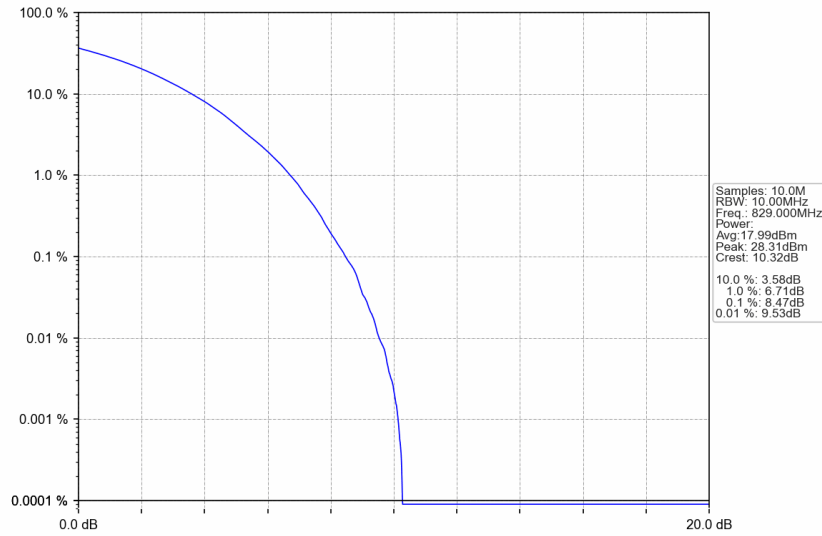


Report No.: SEWM2311000456RG02

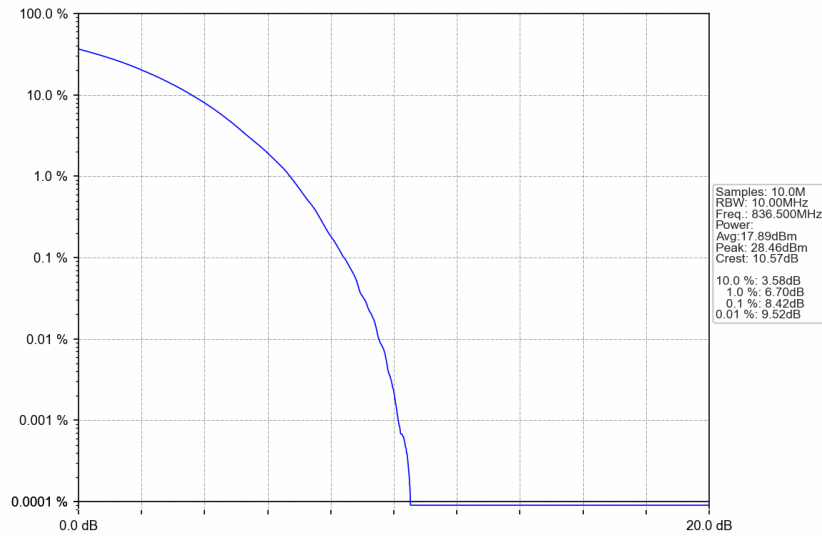
Rev.: 01

Page: 235 of 462

n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full



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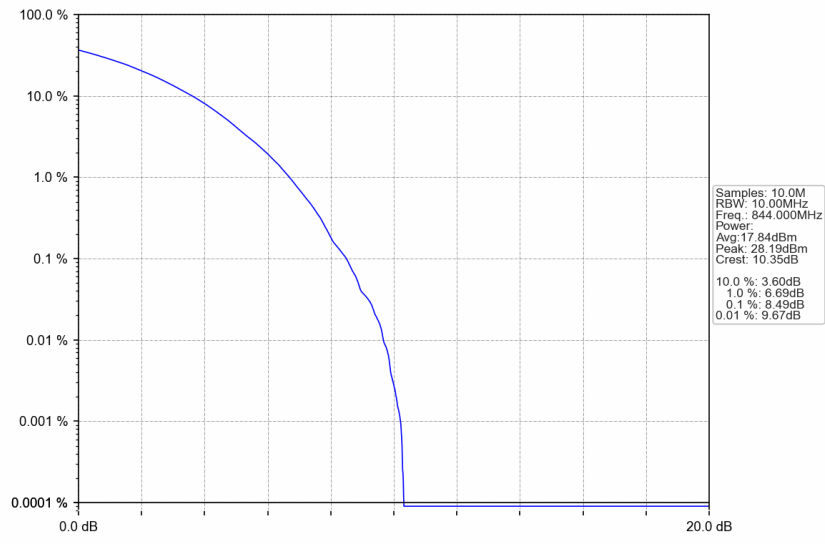


Report No.: SEWM2311000456RG02

Rev.: 01

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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_844MHz_Outer_Full



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5.6 30k_SISO_15MHz_NTNV

5.6.1 Test Result

5G NR n5 SCS=30kHz SISO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	831.5	Outer_Full	4.23	/	/	<=13	Pass
	836.5	Outer_Full	4.28	/	/	<=13	Pass
	841.5	Outer_Full	4.32	/	/	<=13	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	5.52	/	/	<=13	Pass
	836.5	Outer_Full	5.54	/	/	<=13	Pass
	841.5	Outer_Full	5.50	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	831.5	Outer_Full	6.15	/	/	<=13	Pass
	836.5	Outer_Full	6.15	/	/	<=13	Pass
	841.5	Outer_Full	6.13	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	831.5	Outer_Full	6.47	/	/	<=13	Pass
	836.5	Outer_Full	6.44	/	/	<=13	Pass
	841.5	Outer_Full	6.43	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	831.5	Outer_Full	6.53	/	/	<=13	Pass
	836.5	Outer_Full	6.54	/	/	<=13	Pass
	841.5	Outer_Full	6.54	/	/	<=13	Pass
CP-OFDM QPSK	831.5	Outer_Full	7.78	/	/	<=13	Pass
	836.5	Outer_Full	7.83	/	/	<=13	Pass
	841.5	Outer_Full	7.83	/	/	<=13	Pass
CP-OFDM 16 QAM	831.5	Outer_Full	7.69	/	/	<=13	Pass
	836.5	Outer_Full	7.71	/	/	<=13	Pass
	841.5	Outer_Full	7.72	/	/	<=13	Pass
CP-OFDM 64 QAM	831.5	Outer_Full	7.95	/	/	<=13	Pass
	836.5	Outer_Full	7.98	/	/	<=13	Pass
	841.5	Outer_Full	7.93	/	/	<=13	Pass
CP-OFDM 256 QAM	831.5	Outer_Full	8.55	/	/	<=13	Pass
	836.5	Outer_Full	8.54	/	/	<=13	Pass
	841.5	Outer_Full	8.49	/	/	<=13	Pass

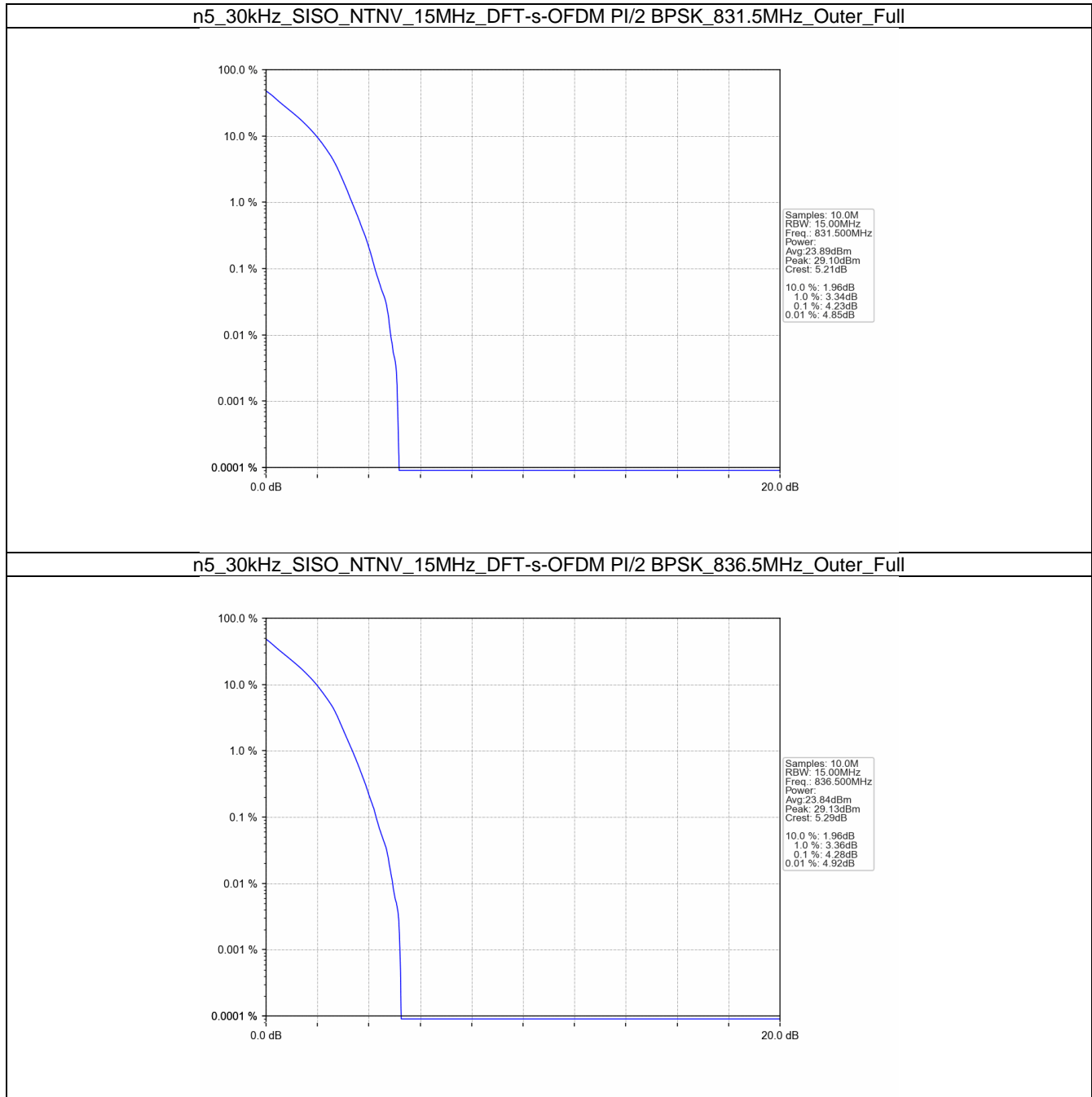


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5.6.2 Test Graph

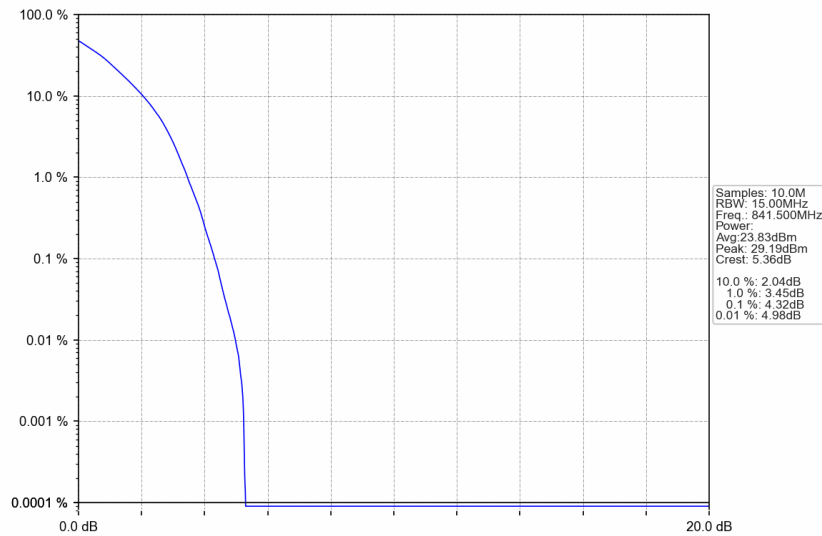


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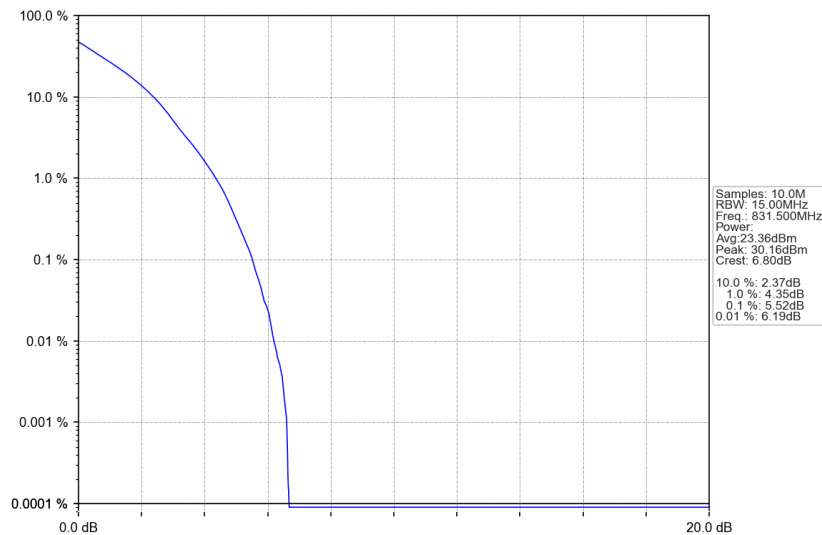
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full

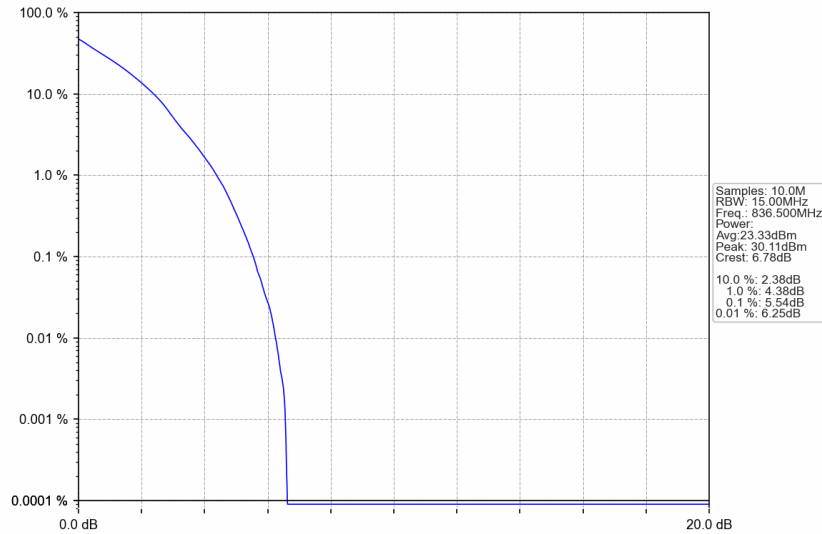


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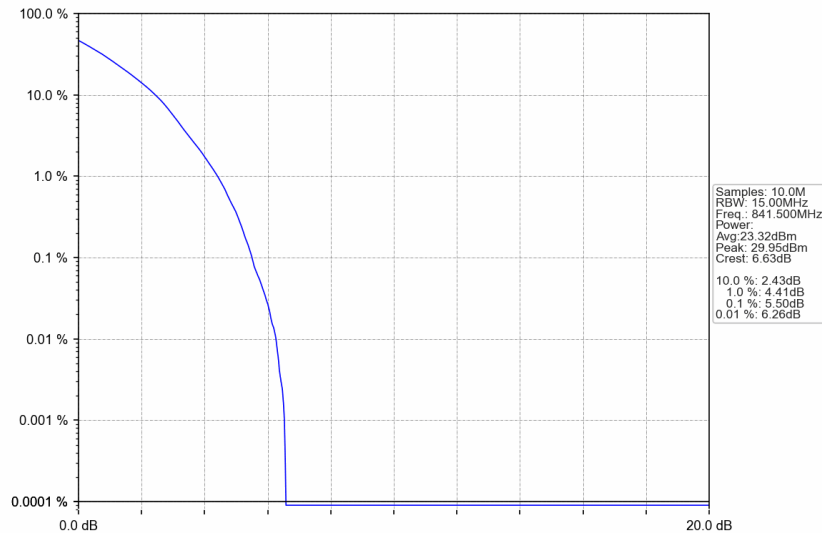
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Outer_Full

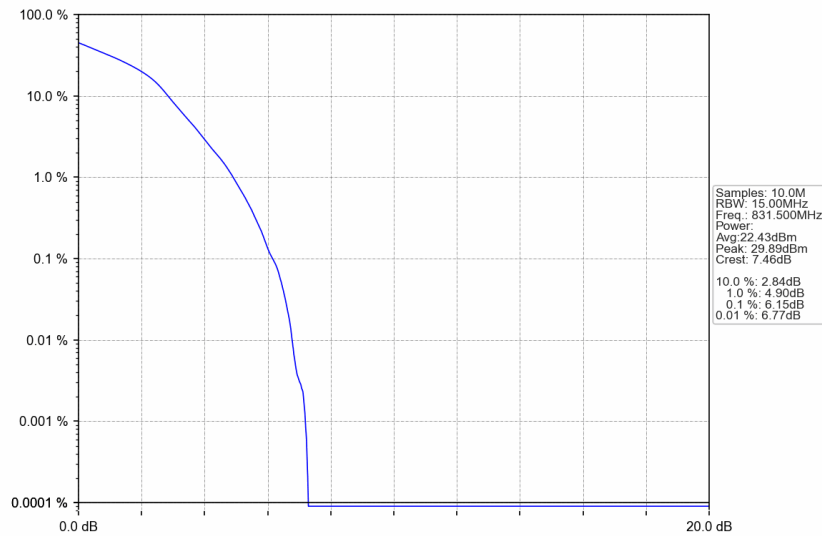


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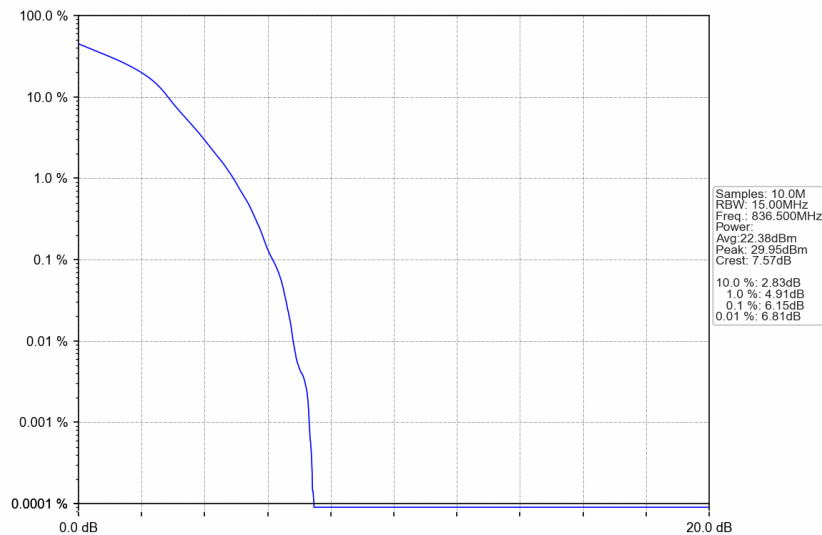
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full

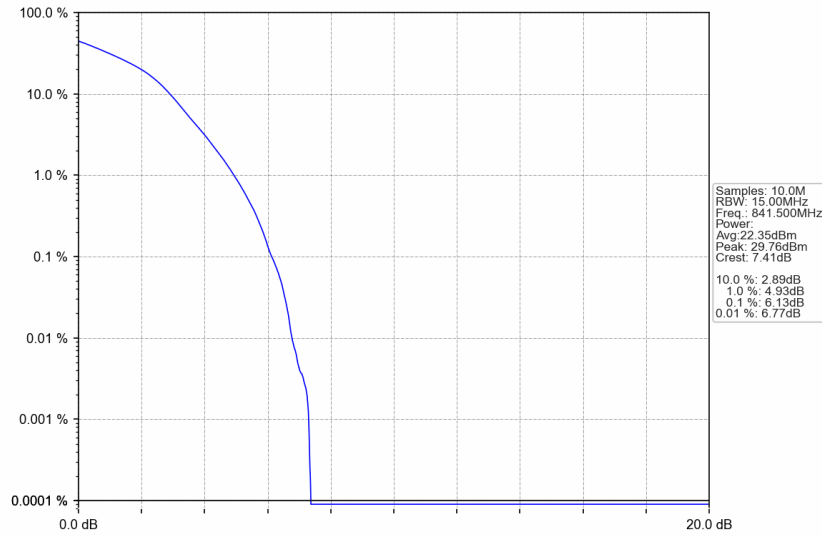


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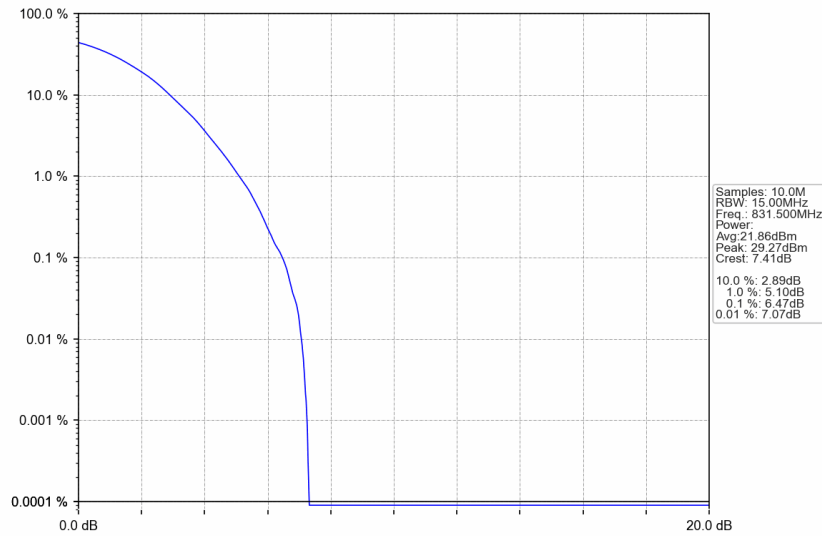
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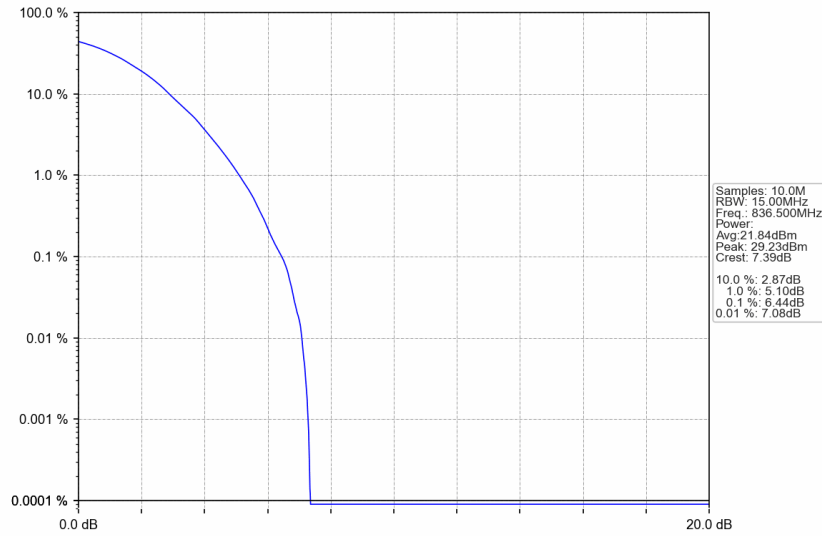


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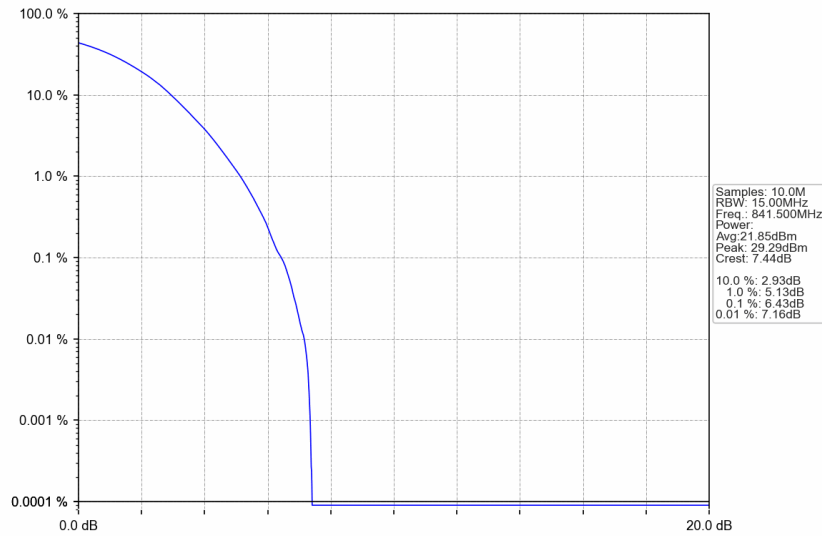
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



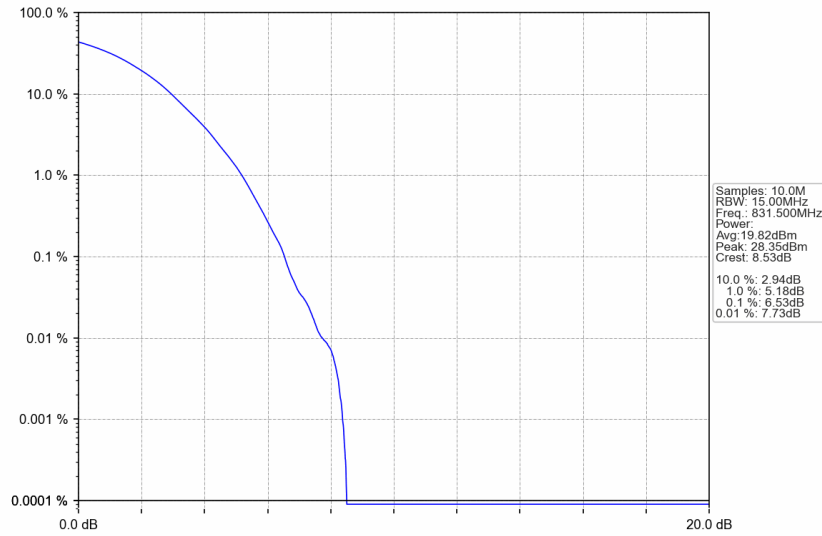
n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_841.5MHz_Outer_Full



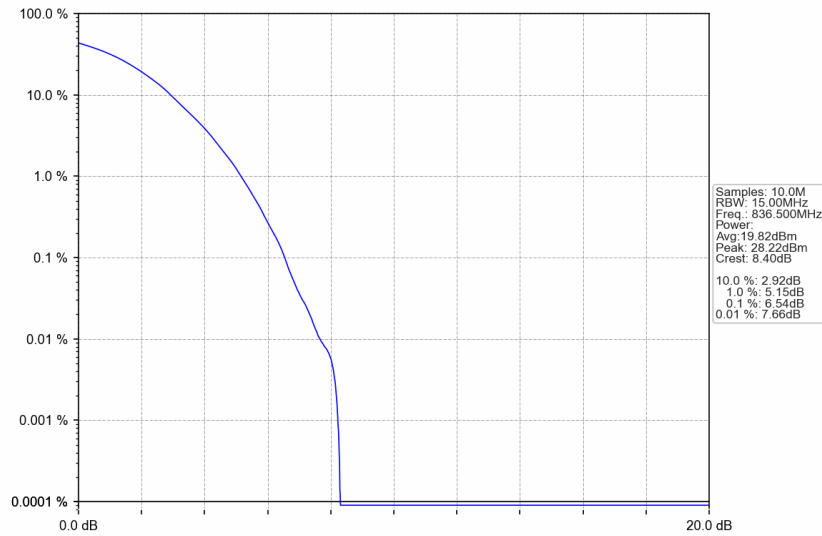
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_836.5MHz_Outer_Full



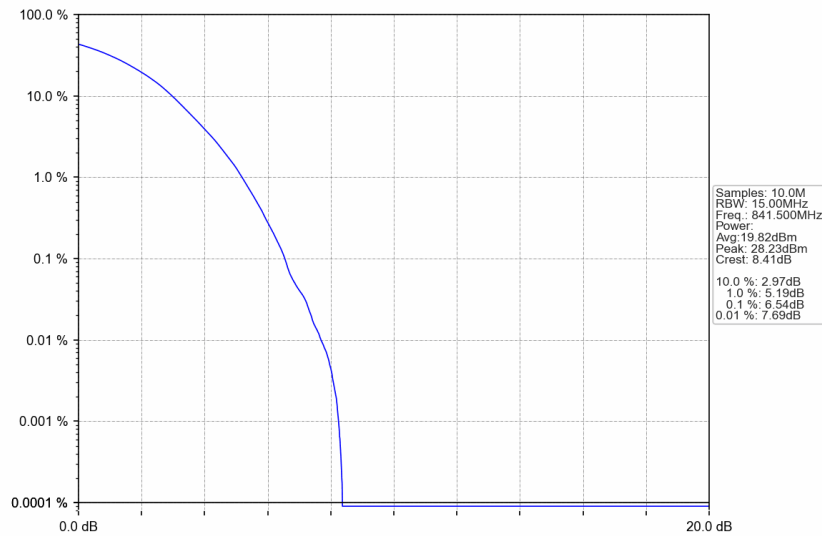
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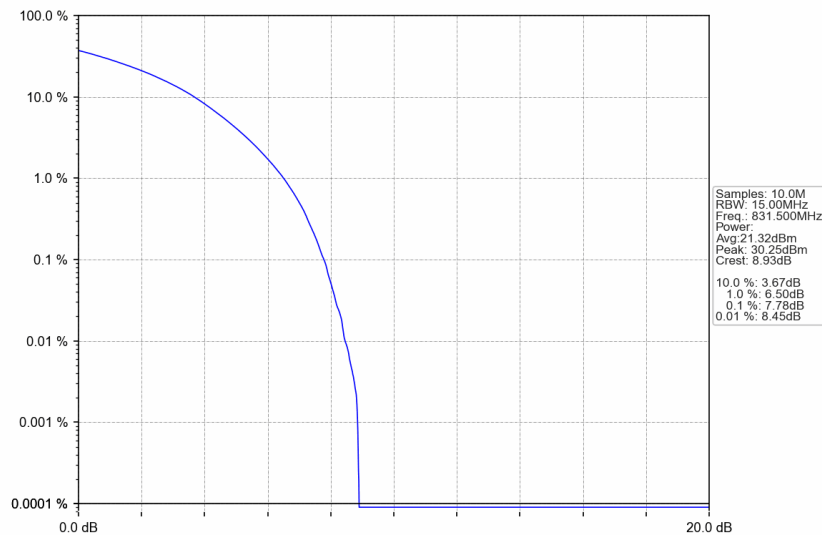
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_831.5MHz_Outer_Full

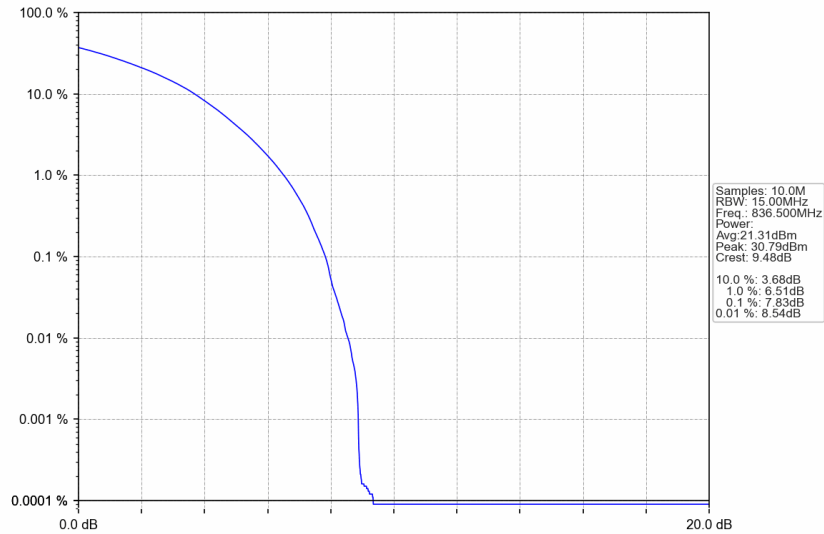


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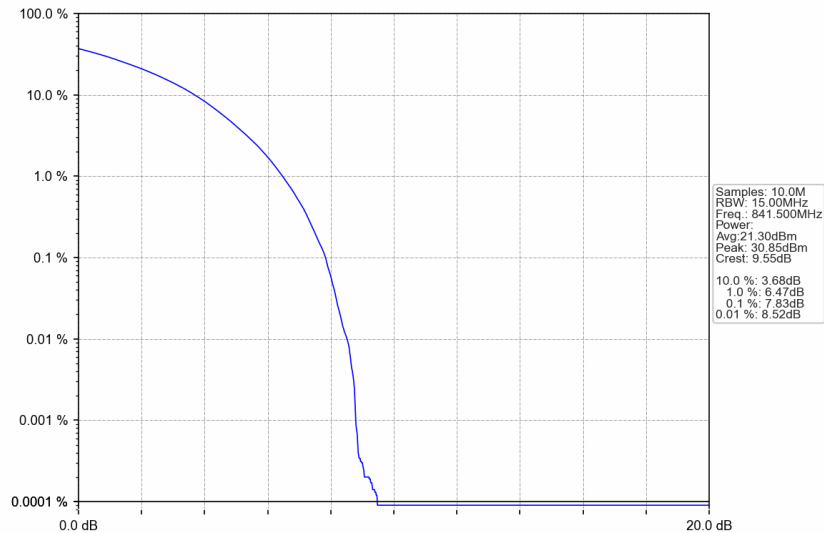
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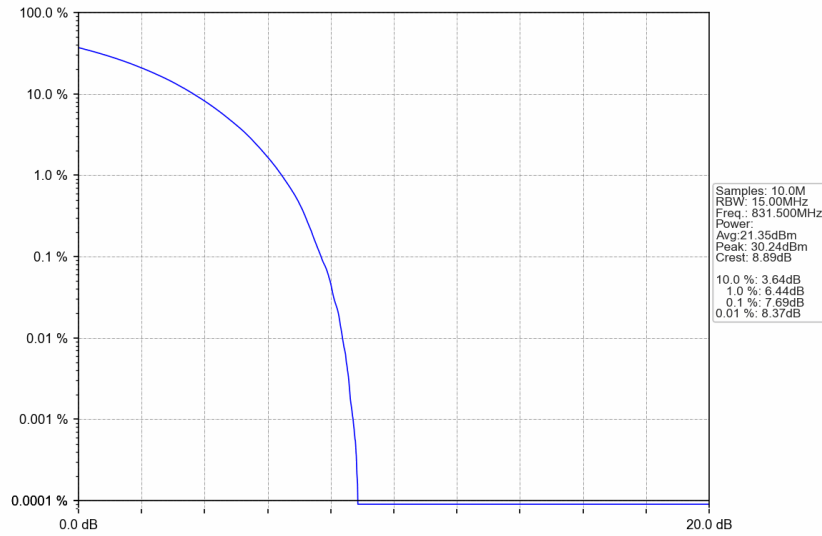
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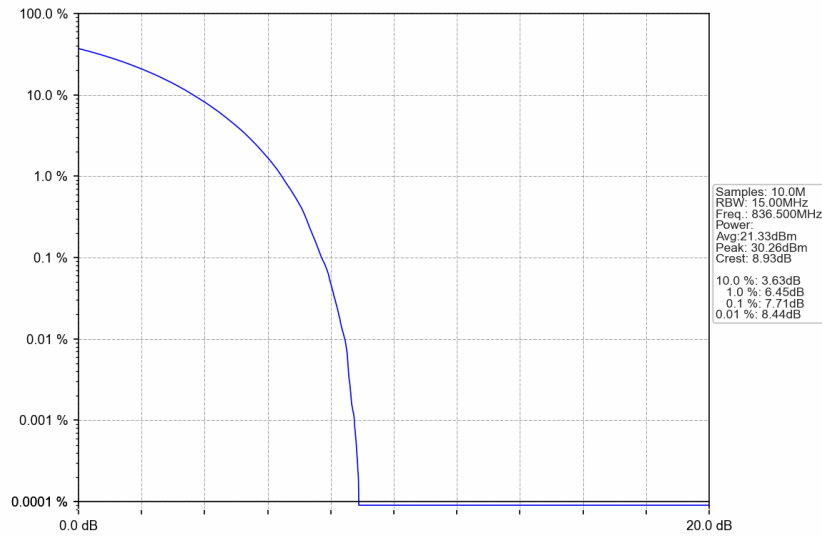
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Wireless Laboratory

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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_831.5MHz_Outer_Full



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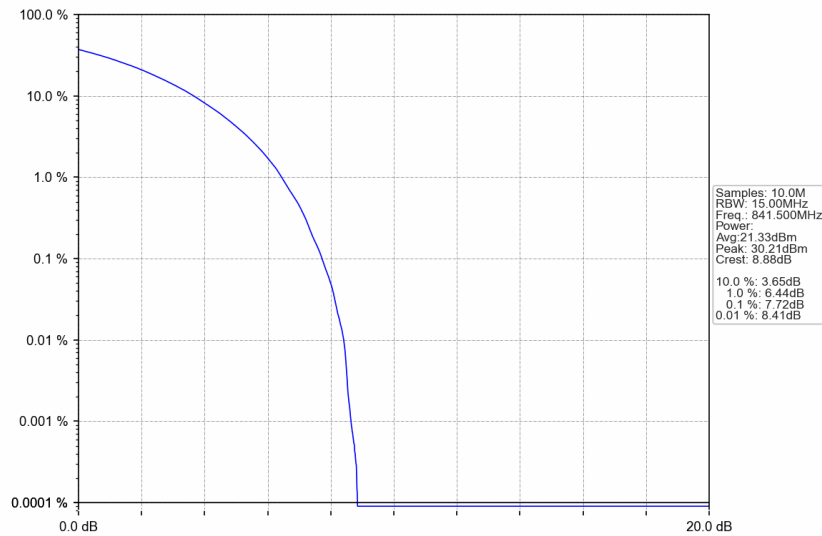


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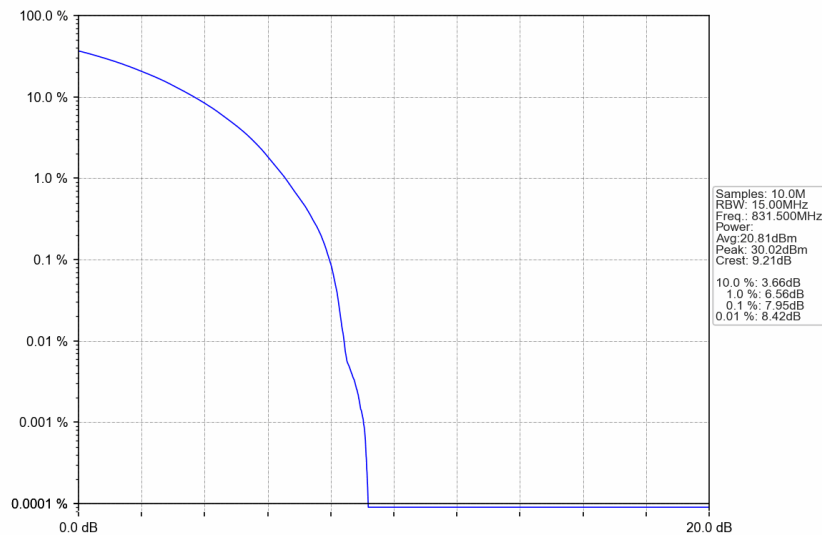
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n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_831.5MHz_Outer_Full

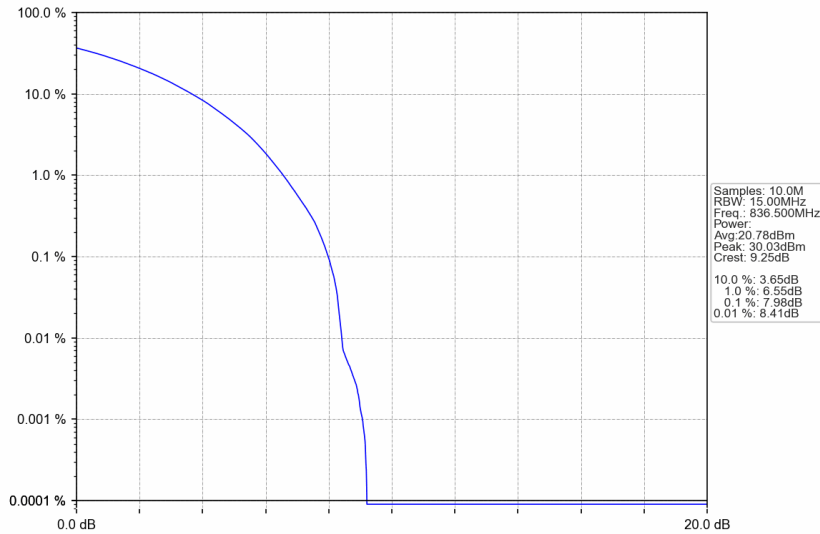


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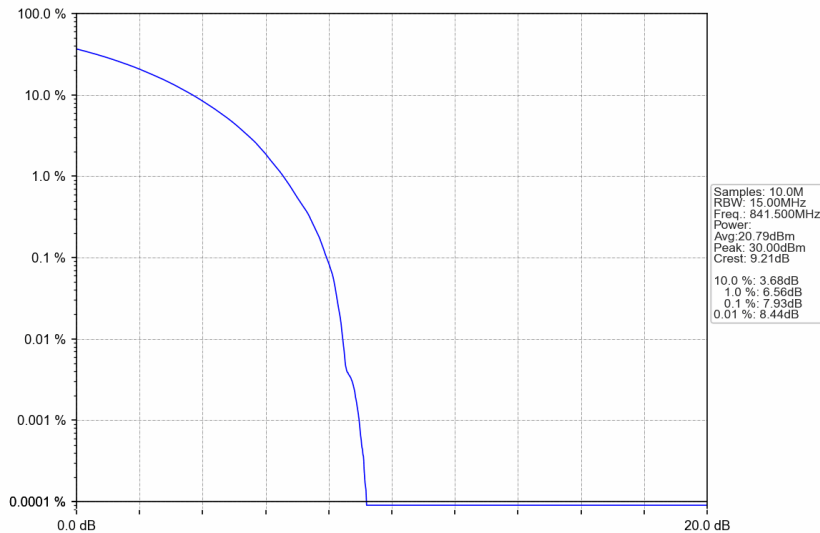
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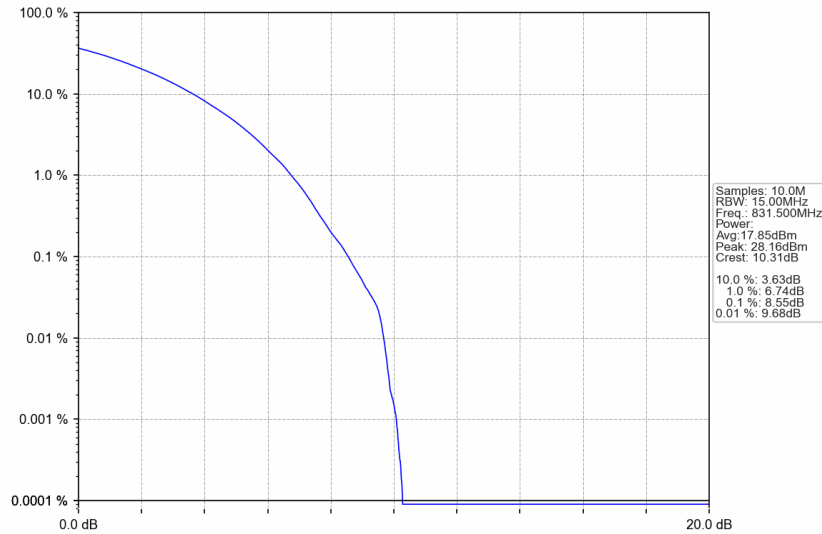


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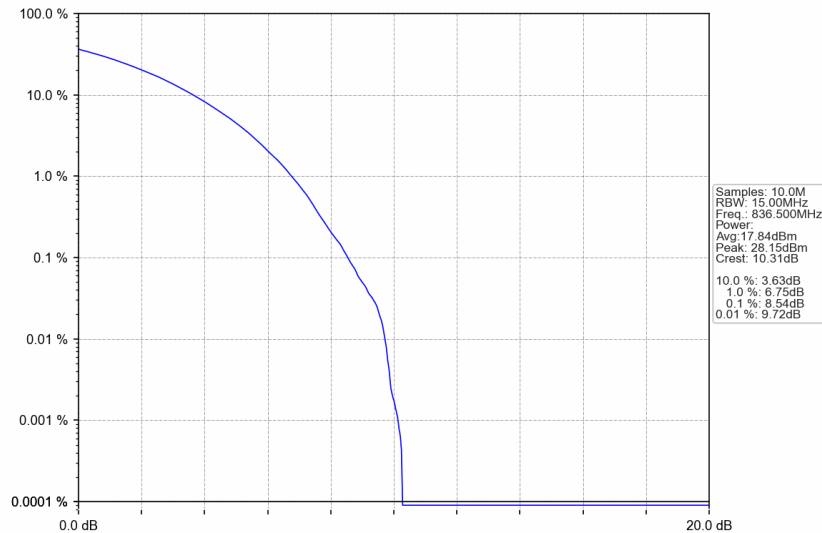
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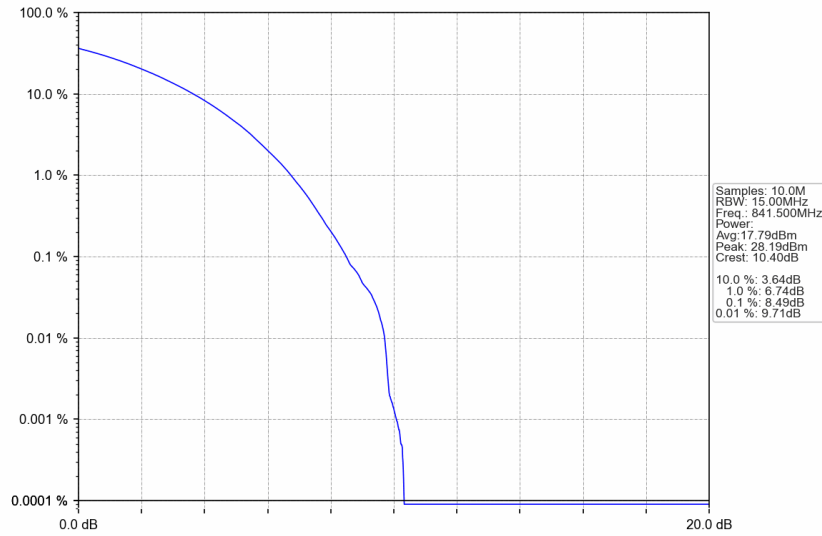


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 251 of 462

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_841.5MHz_Outer_Full



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5.7 30k_SISO_20MHz_NTNV

5.7.1 Test Result

5G NR n5 SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	4.31	/	/	<=13	Pass
	836.5	Outer_Full	4.29	/	/	<=13	Pass
	839	Outer_Full	4.38	/	/	<=13	Pass
DFT-s-OFDM QPSK	834	Outer_Full	5.36	/	/	<=13	Pass
	836.5	Outer_Full	5.34	/	/	<=13	Pass
	839	Outer_Full	5.41	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	6.16	/	/	<=13	Pass
	836.5	Outer_Full	6.15	/	/	<=13	Pass
	839	Outer_Full	6.18	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	6.37	/	/	<=13	Pass
	836.5	Outer_Full	6.35	/	/	<=13	Pass
	839	Outer_Full	6.39	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	6.53	/	/	<=13	Pass
	836.5	Outer_Full	6.52	/	/	<=13	Pass
	839	Outer_Full	6.55	/	/	<=13	Pass
CP-OFDM QPSK	834	Outer_Full	7.87	/	/	<=13	Pass
	836.5	Outer_Full	7.83	/	/	<=13	Pass
	839	Outer_Full	7.79	/	/	<=13	Pass
CP-OFDM 16 QAM	834	Outer_Full	7.81	/	/	<=13	Pass
	836.5	Outer_Full	7.76	/	/	<=13	Pass
	839	Outer_Full	7.75	/	/	<=13	Pass
CP-OFDM 64 QAM	834	Outer_Full	7.97	/	/	<=13	Pass
	836.5	Outer_Full	7.95	/	/	<=13	Pass
	839	Outer_Full	7.92	/	/	<=13	Pass
CP-OFDM 256 QAM	834	Outer_Full	8.63	/	/	<=13	Pass
	836.5	Outer_Full	8.62	/	/	<=13	Pass
	839	Outer_Full	8.59	/	/	<=13	Pass

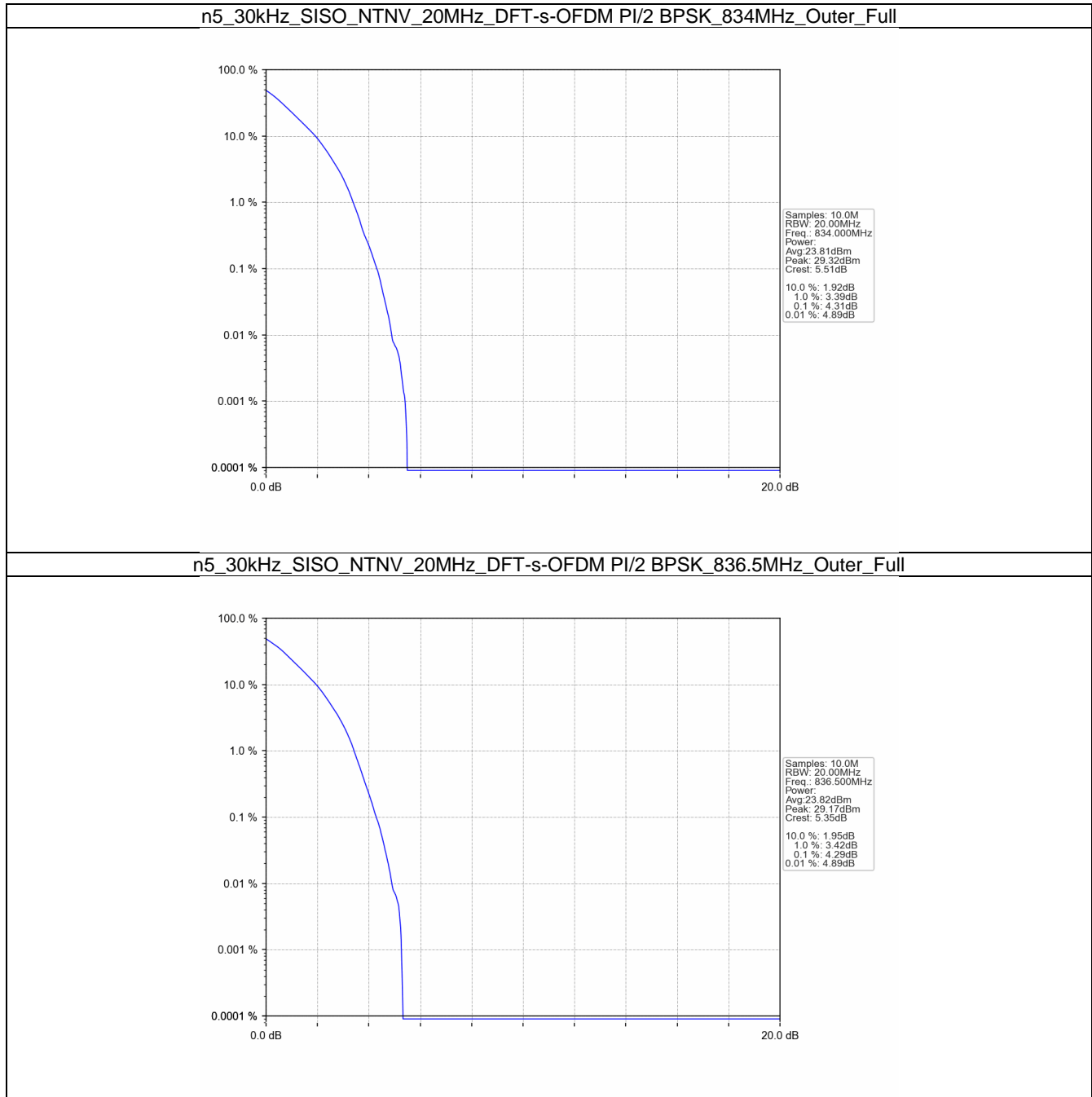


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5.7.2 Test Graph

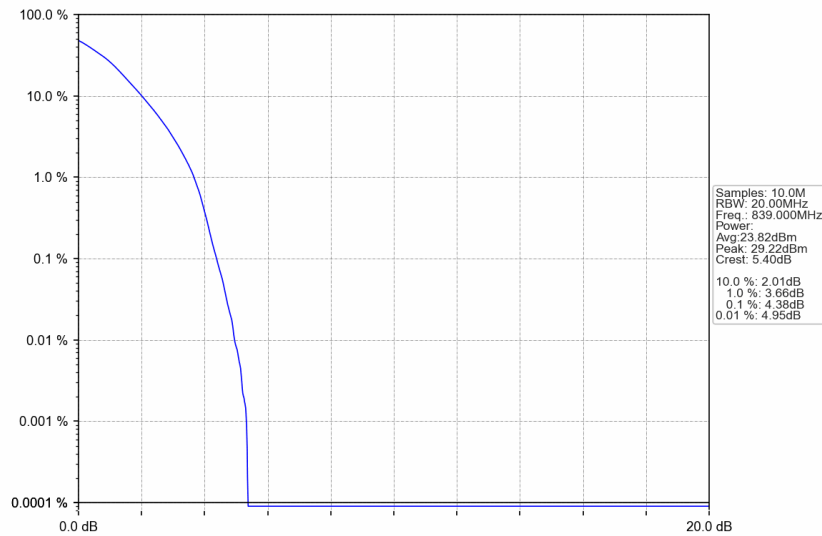


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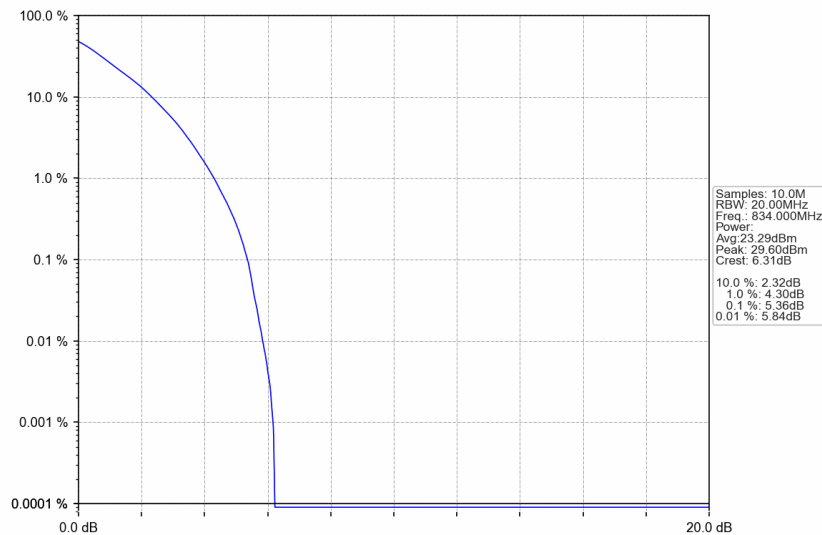
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full

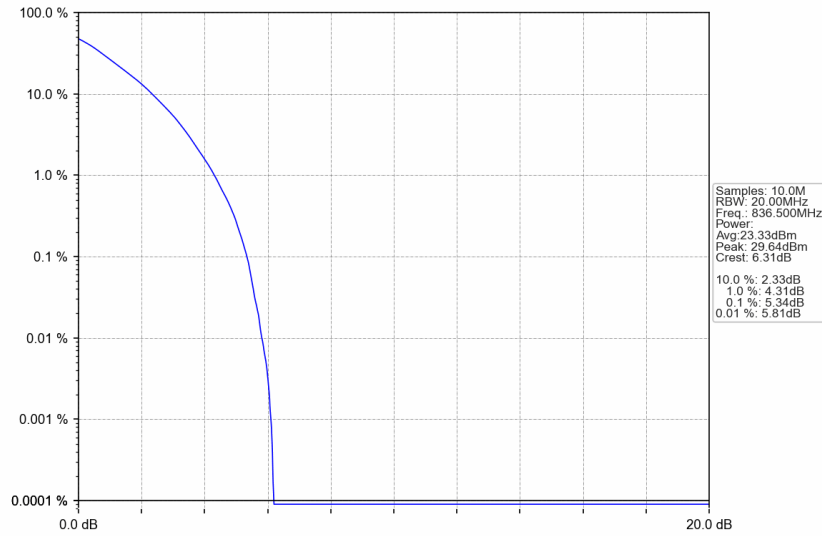


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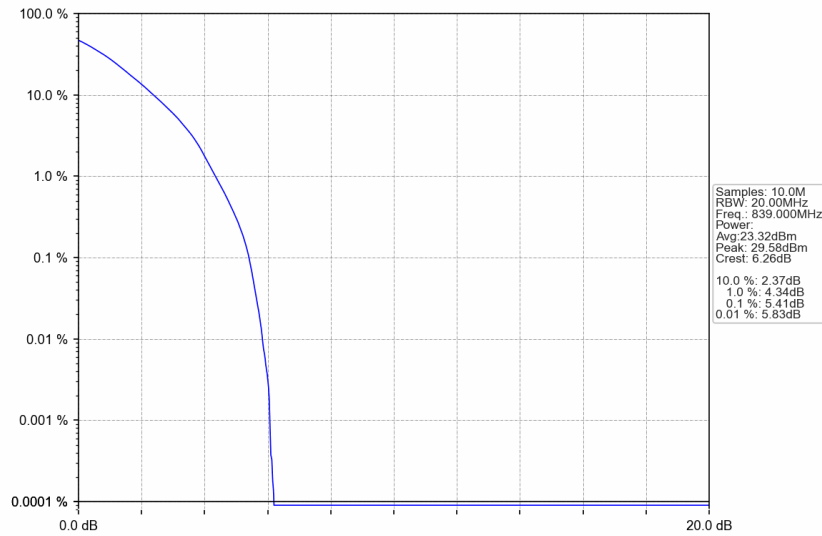
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Outer_Full

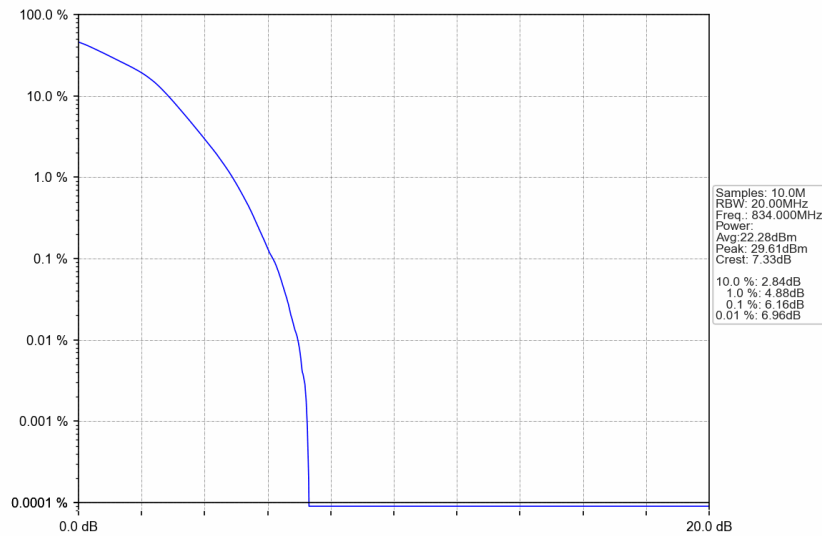


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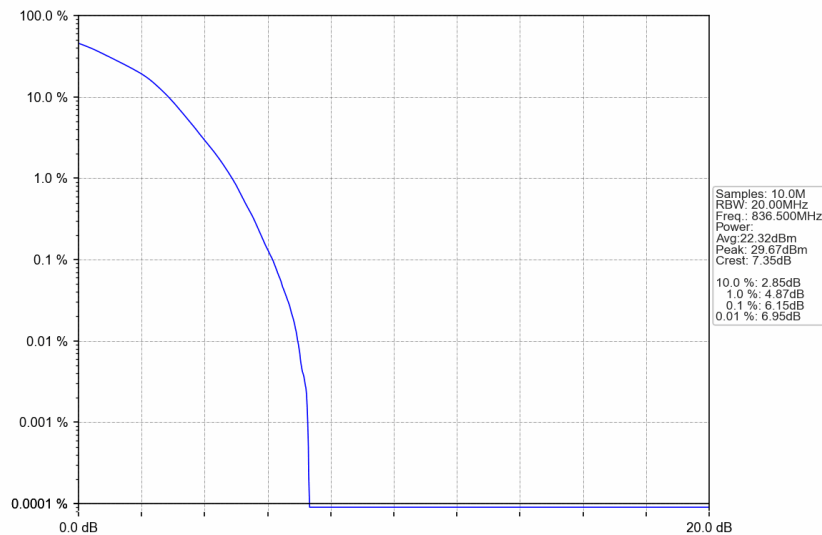
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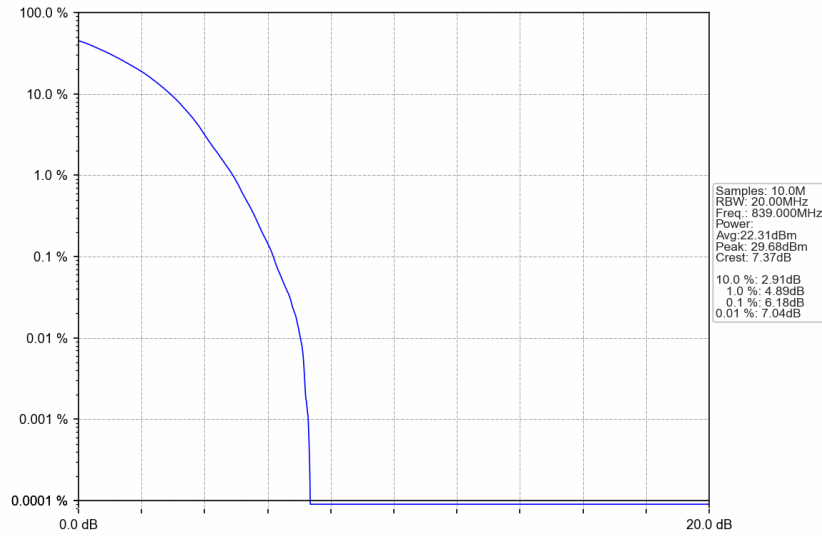


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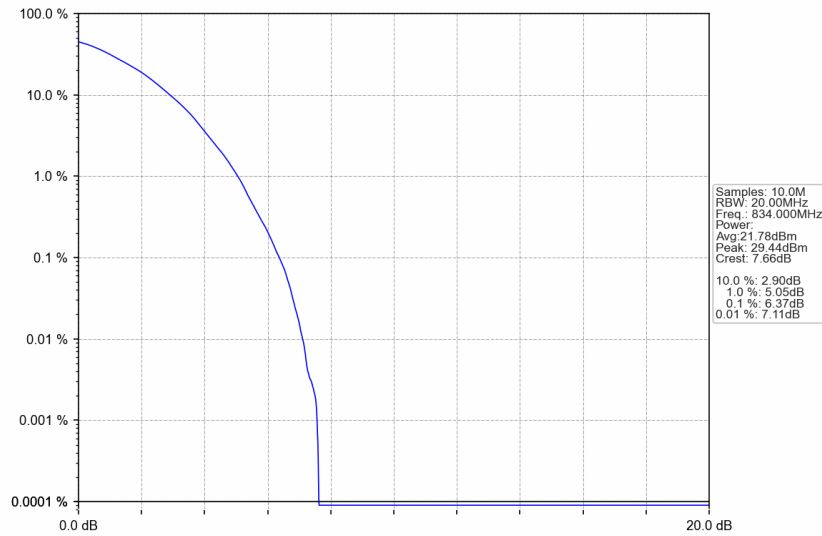
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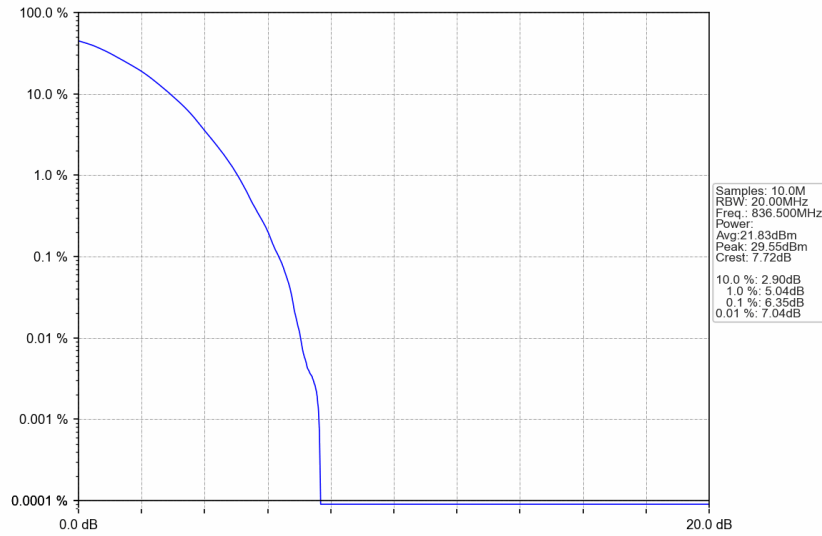


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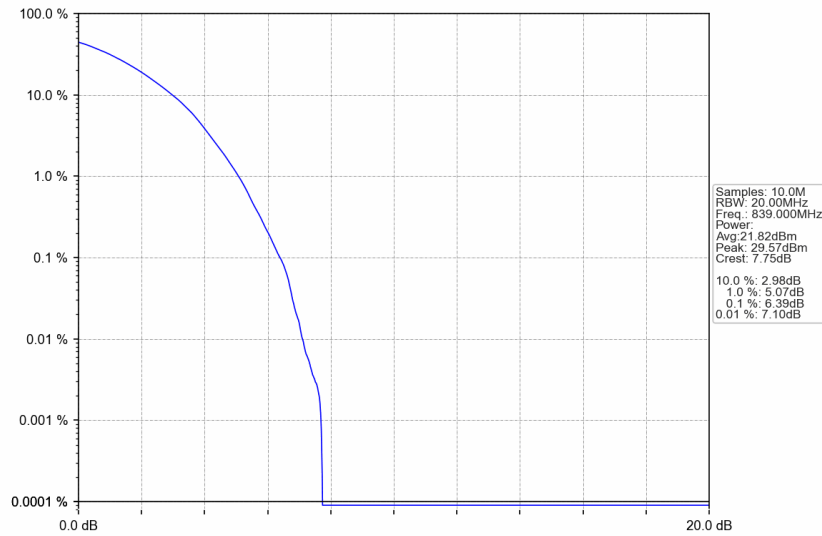
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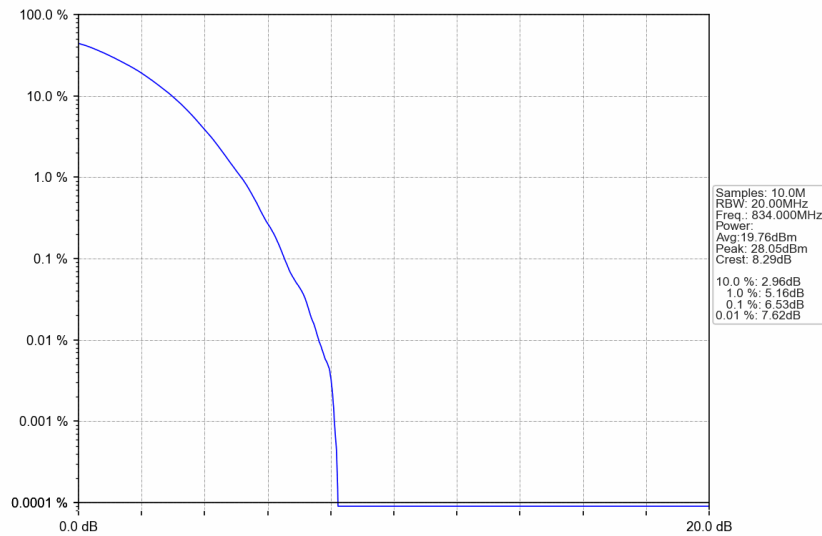


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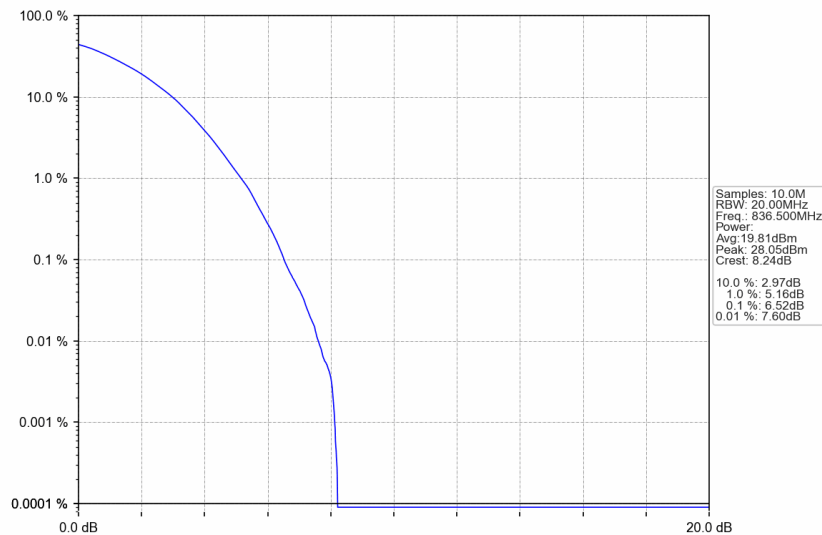
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n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_834MHz_Outer_Full



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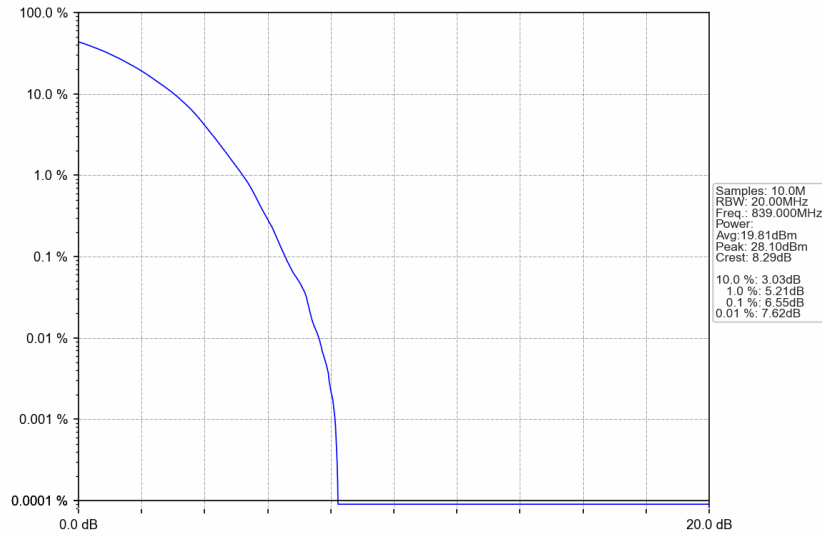
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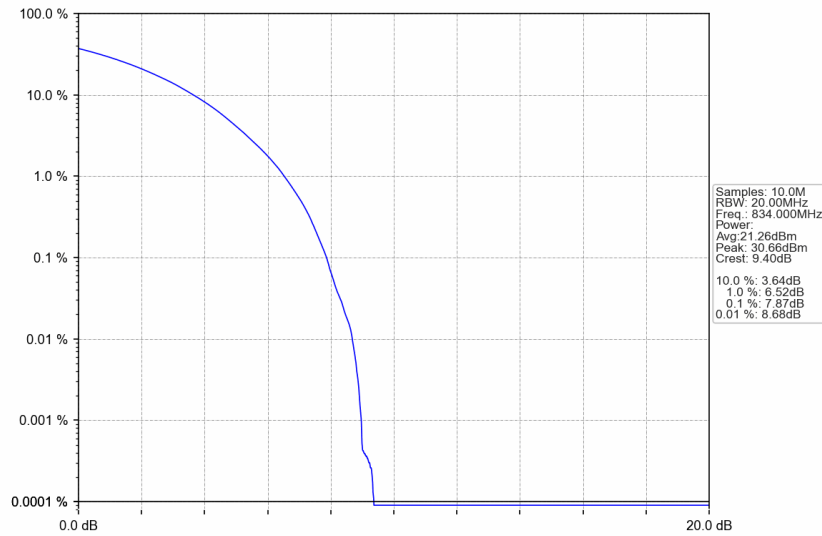
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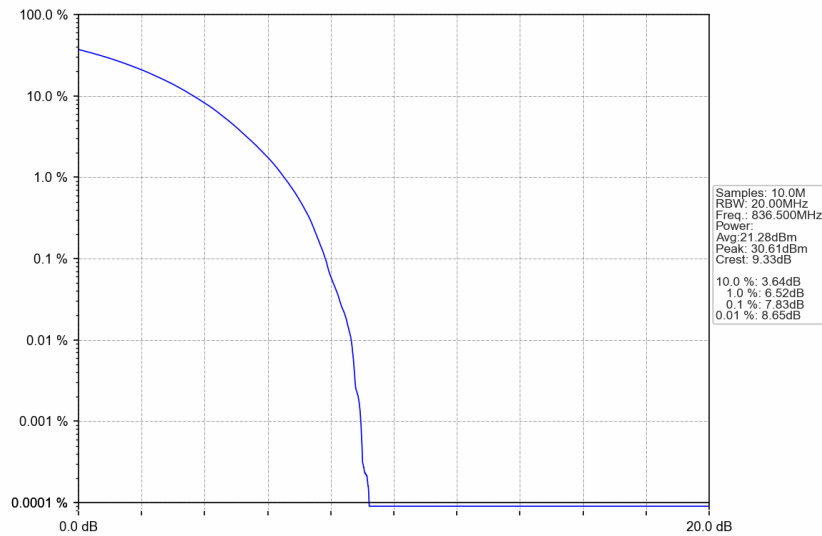
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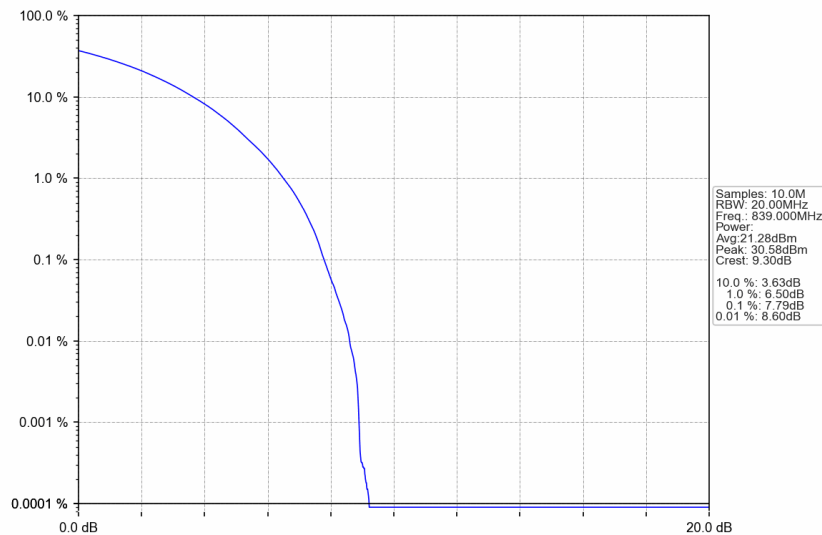
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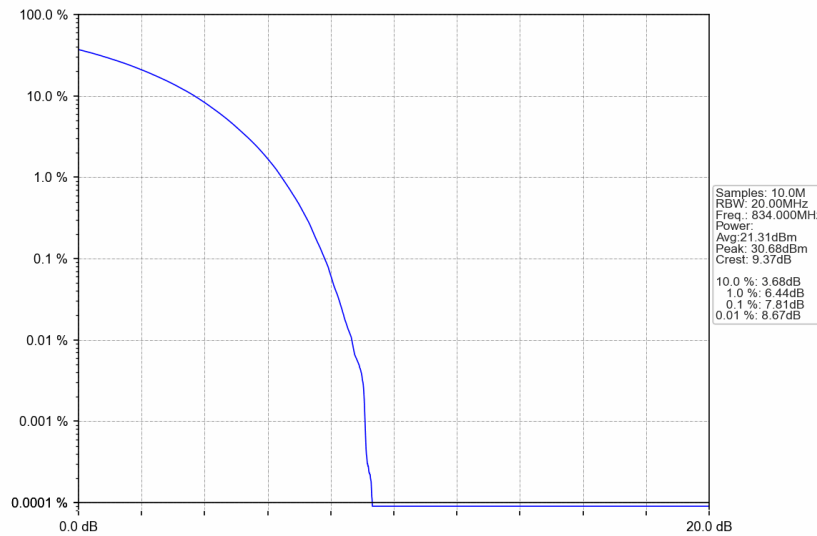


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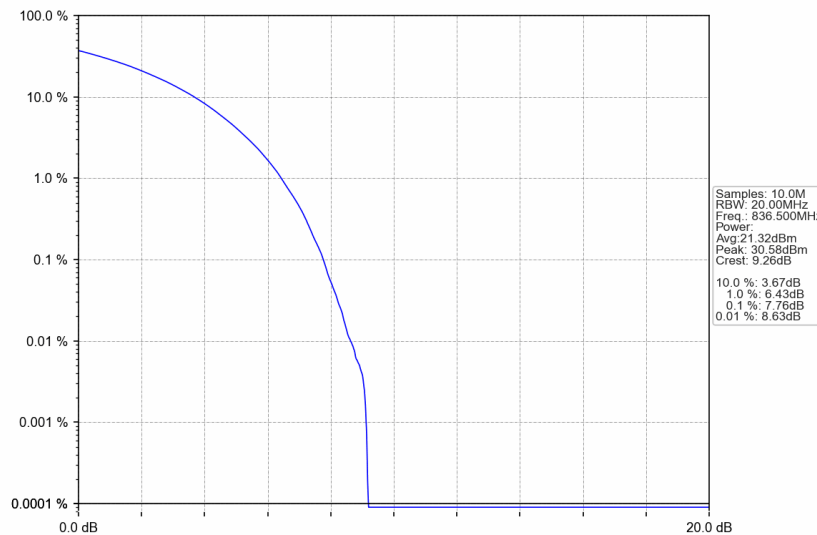
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_834MHz_Outer_Full



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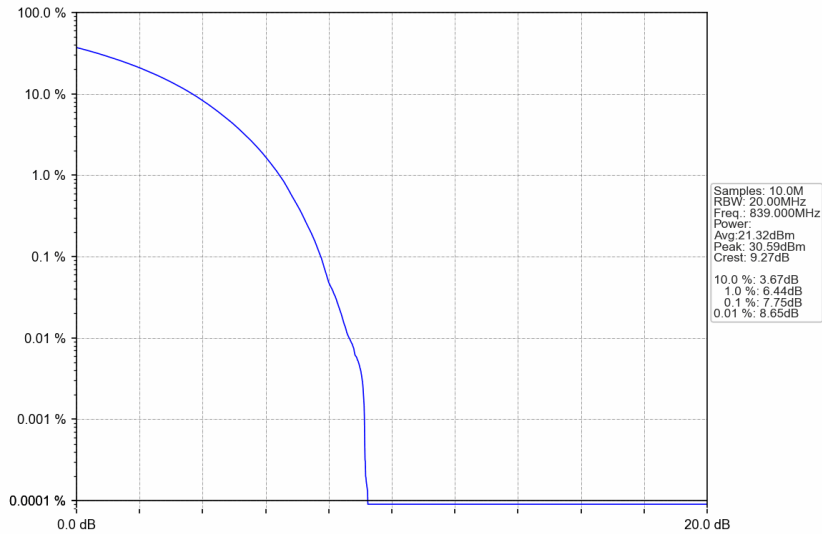
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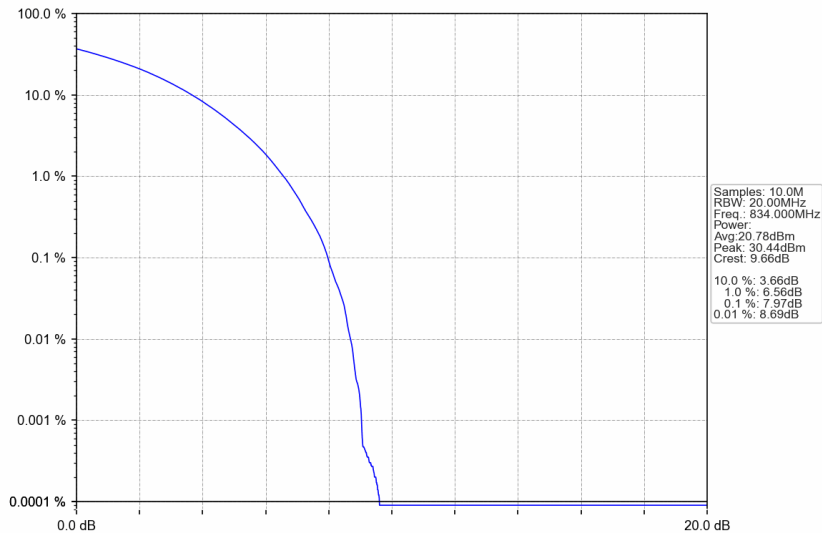
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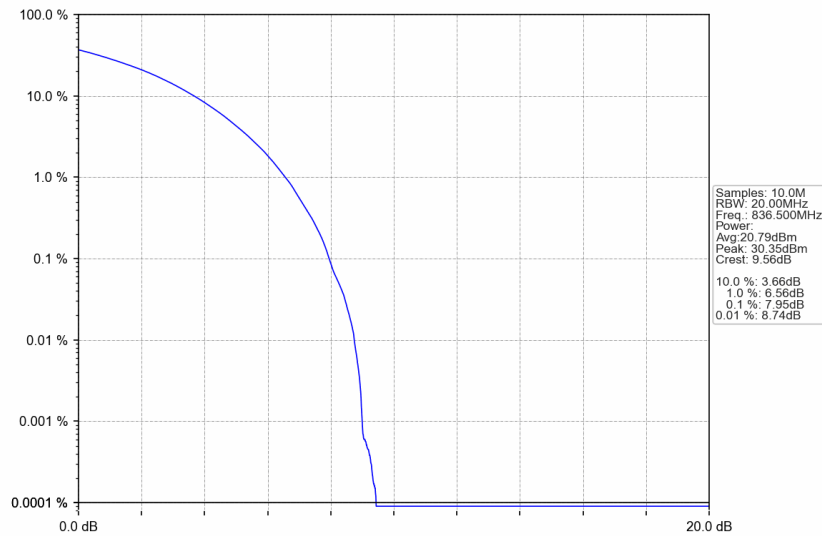
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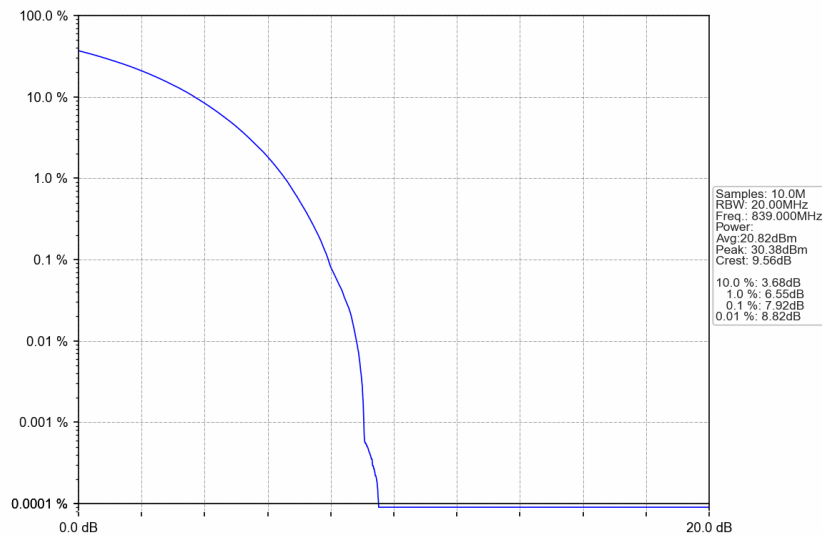
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_839MHz_Outer_Full



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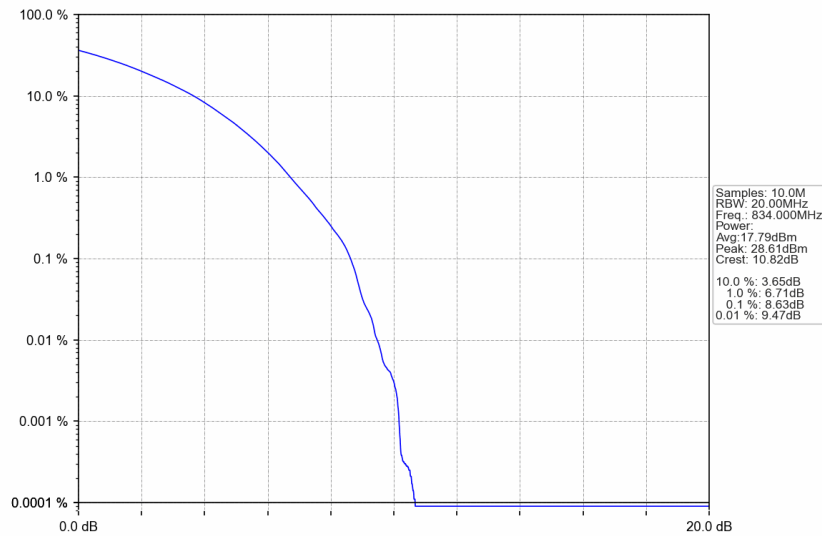
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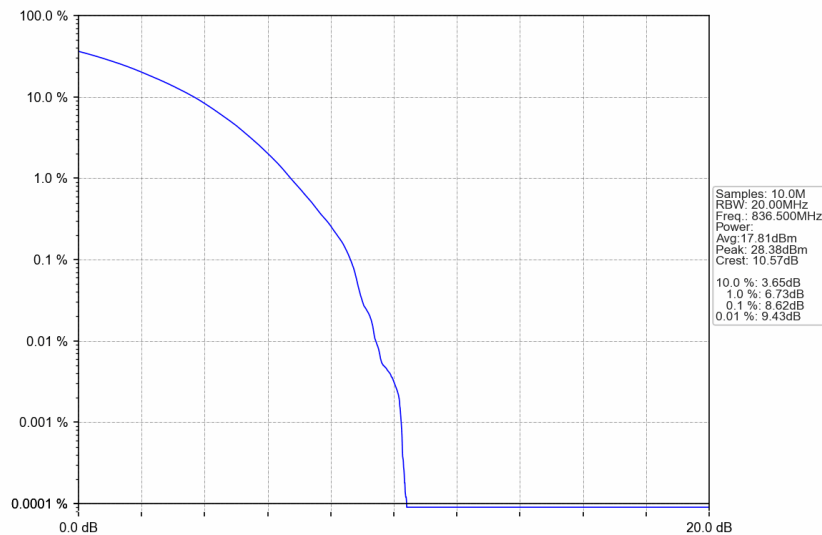
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n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full



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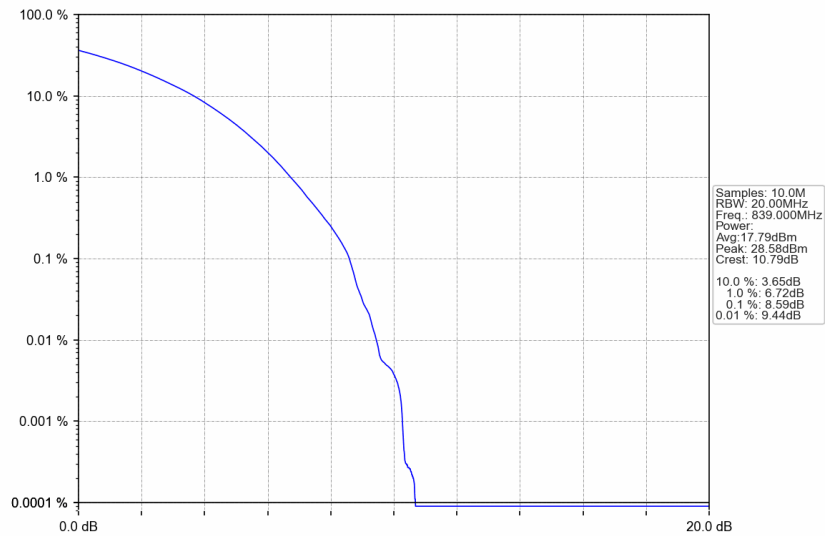


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 266 of 462

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_839MHz_Outer_Full



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6. Spurious Emission & Band Edges

6.1 15k_SISO_5MHz_NTNV

6.1.1 Test Result

5G NR n5 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	826.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	836.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	826.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	836.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	826.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	836.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
846.5	Edge_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	

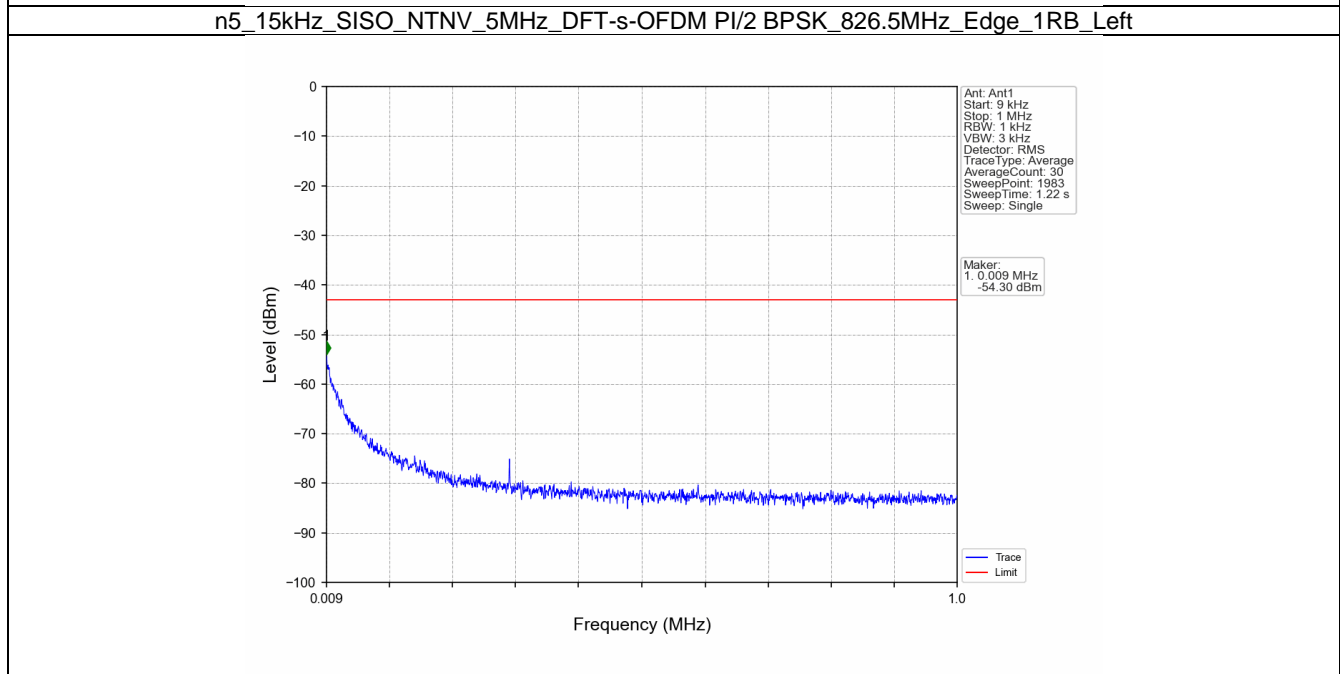
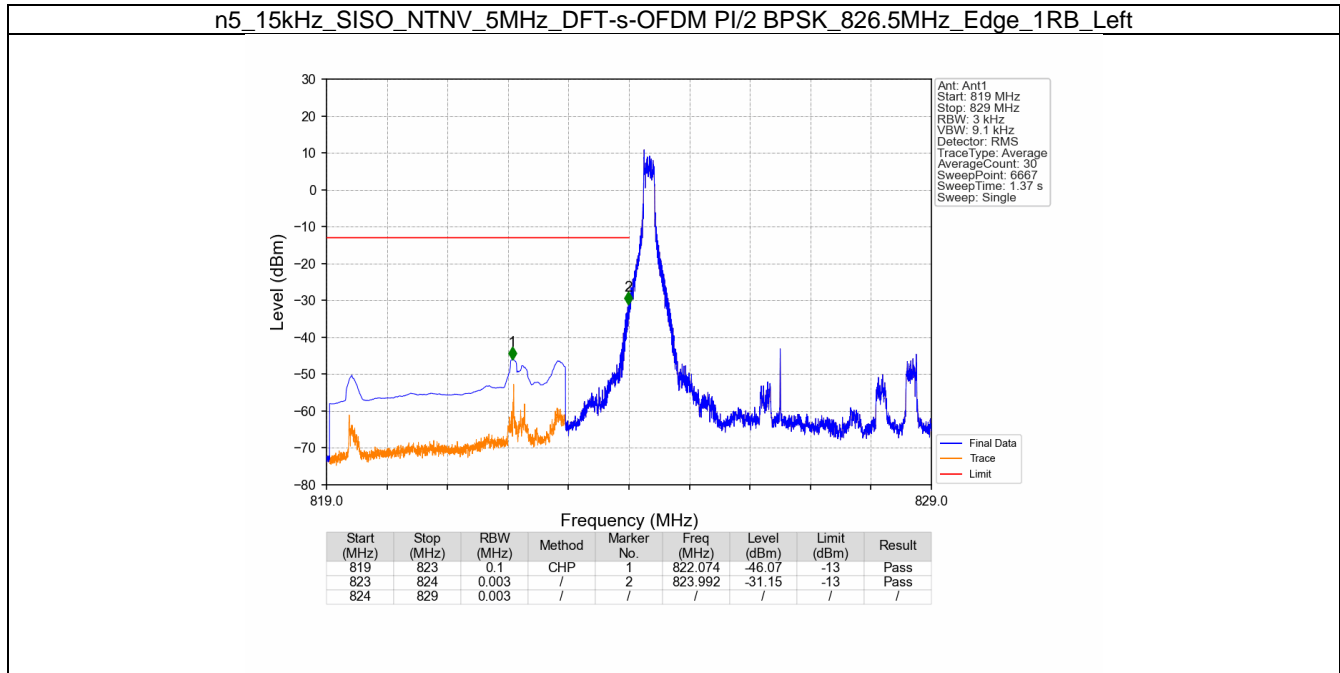


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6.1.2 Test Graph

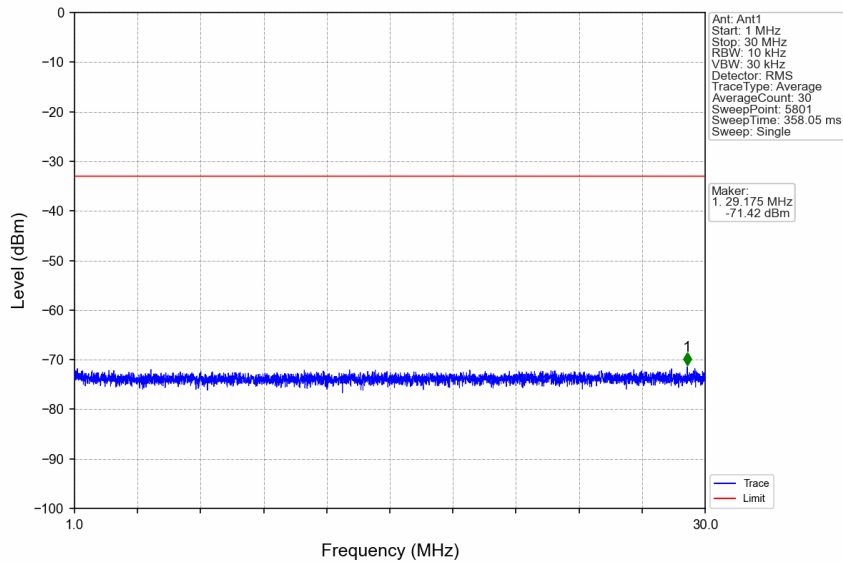


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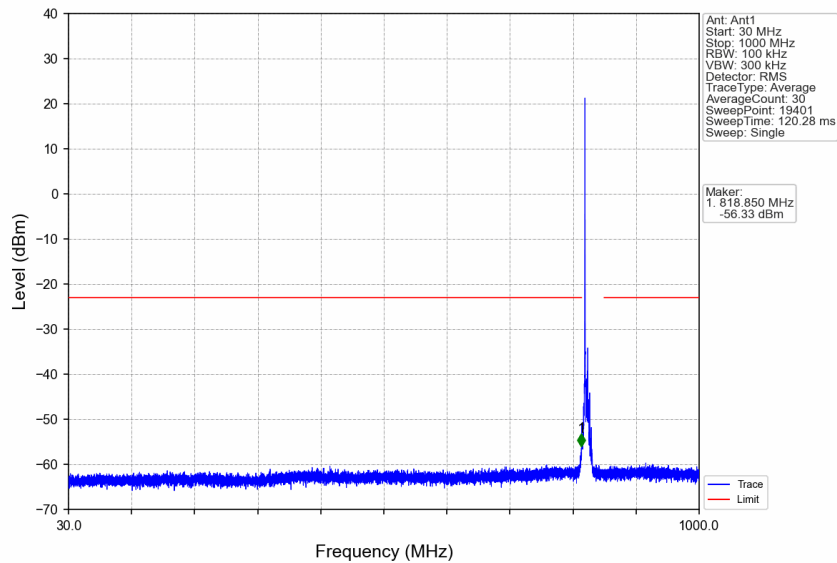
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Edge_1RB_Left

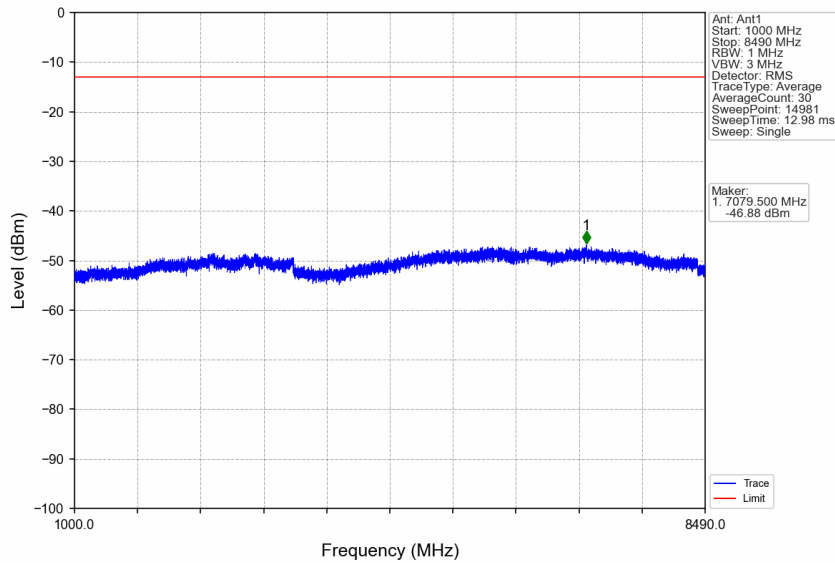


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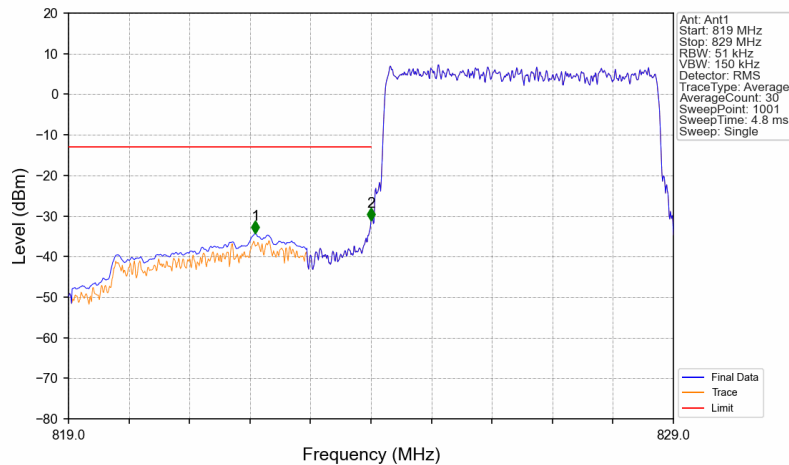
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.090	-34.39	-13	Pass
823	824	0.051	/	2	824.000	-31.22	-13	Pass
824	829	0.051	/	/	/	/	/	/

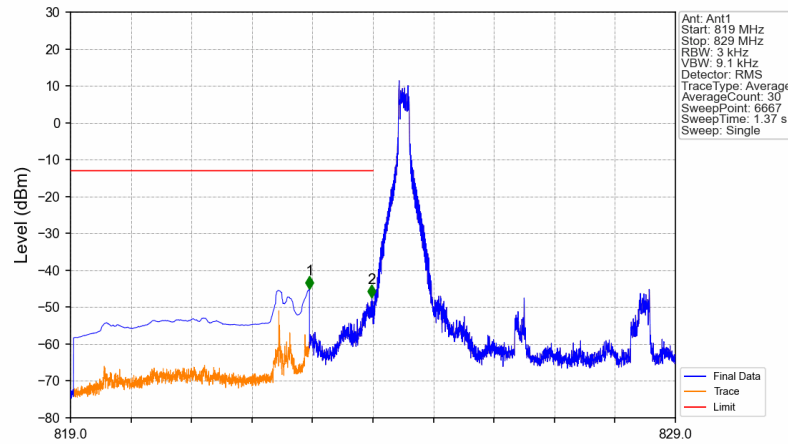


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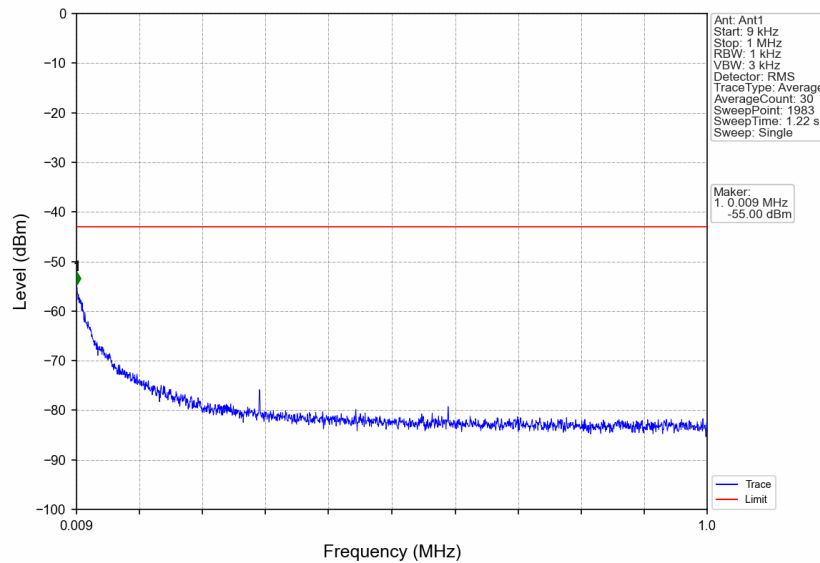
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.950	-45.01	-13	Pass
823	824	0.003	/	2	823.982	-47.33	-13	Pass
824	829	0.003	/	/	/	/	/	/

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_836.5MHz_Edge_1RB_Left

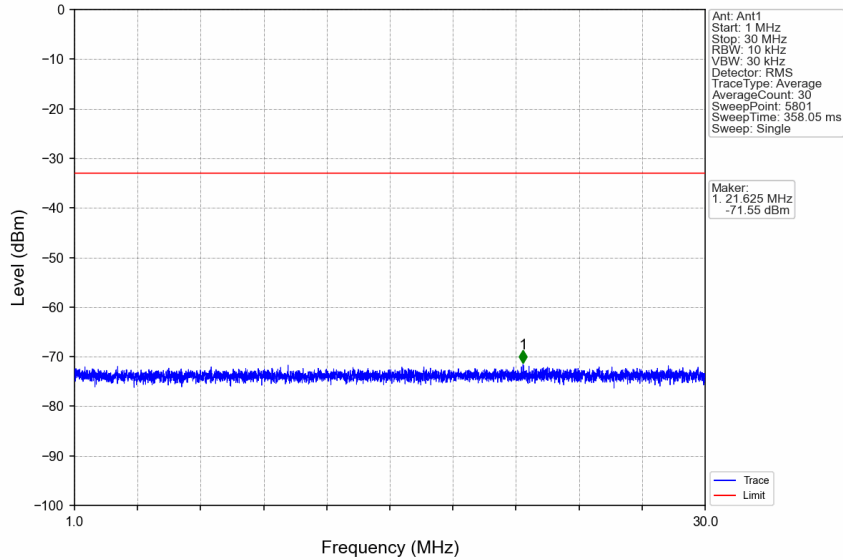


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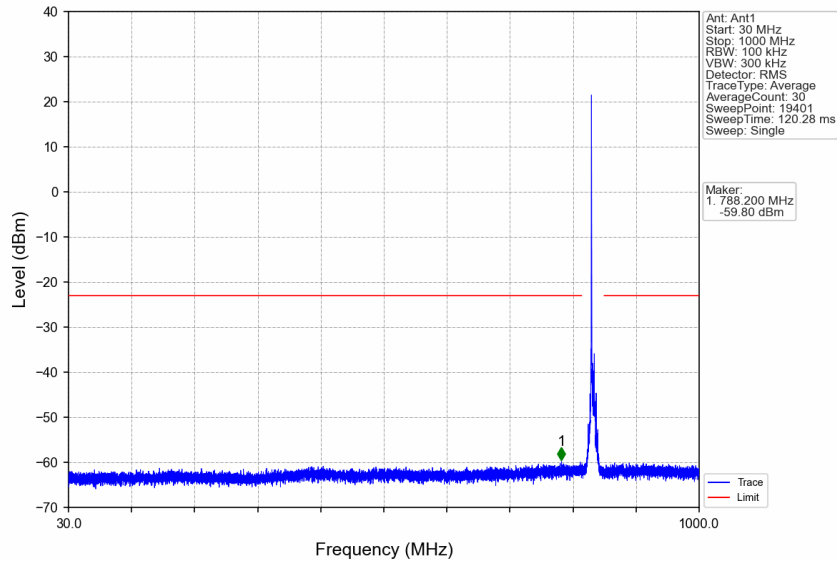
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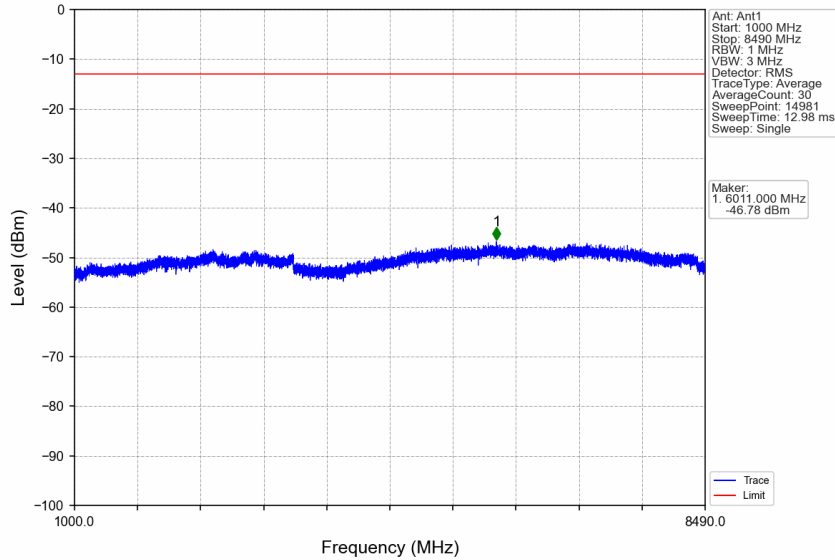


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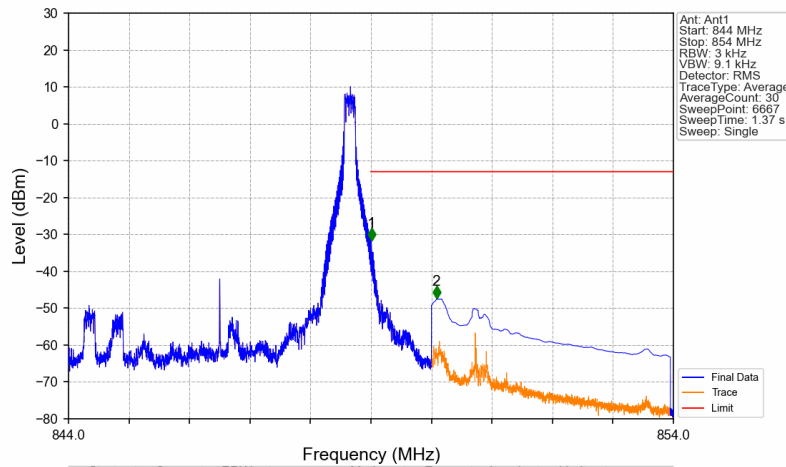
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.006	-31.78	-13	Pass
850	854	0.1	CHP	2	850.082	-47.48	-13	Pass

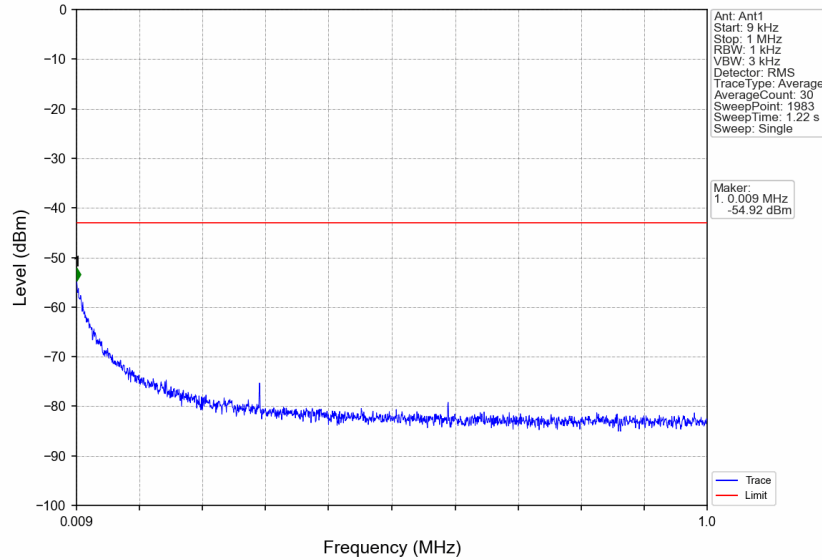


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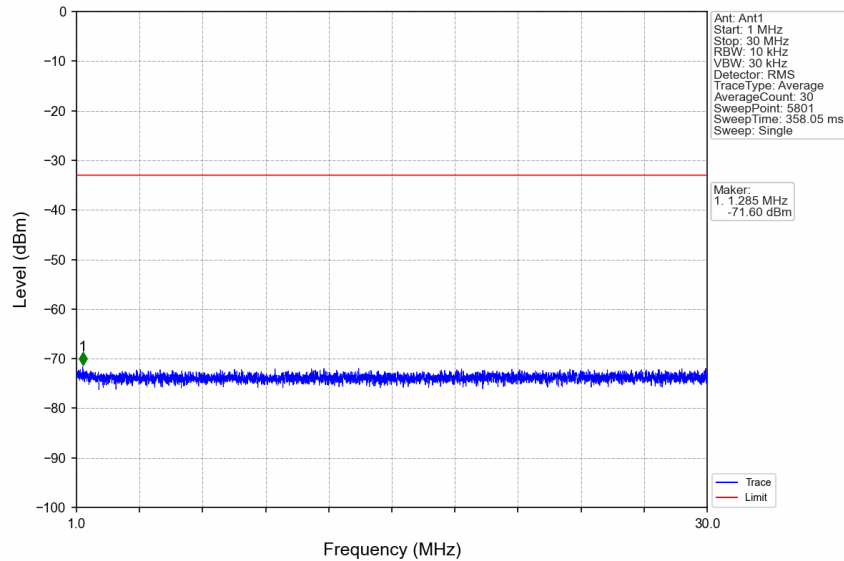
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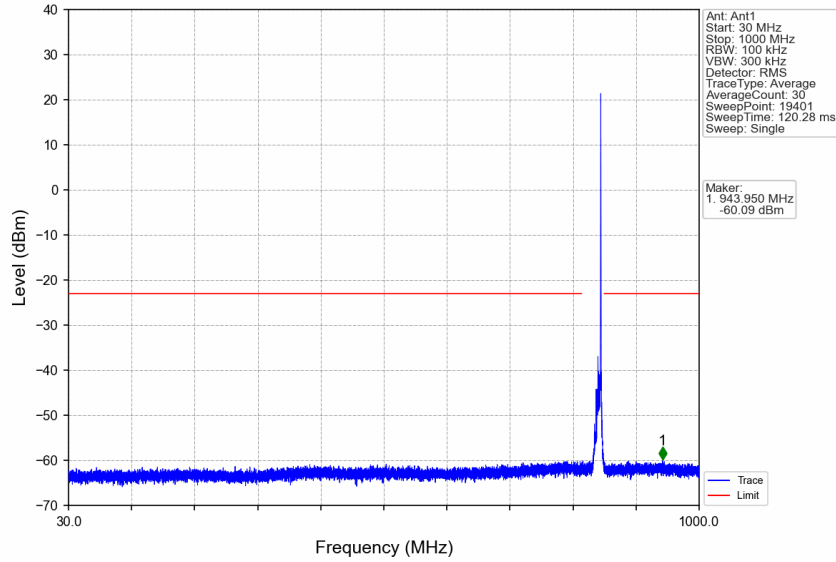
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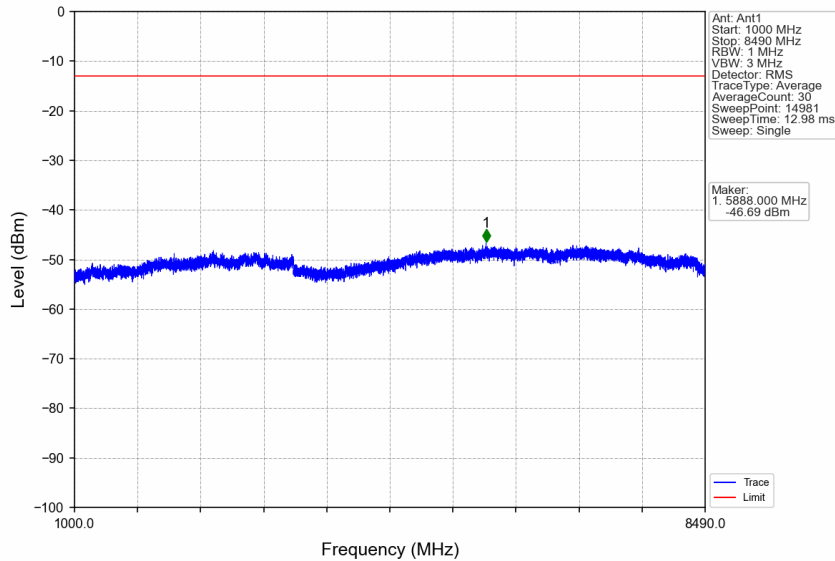
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Edge_1RB_Right

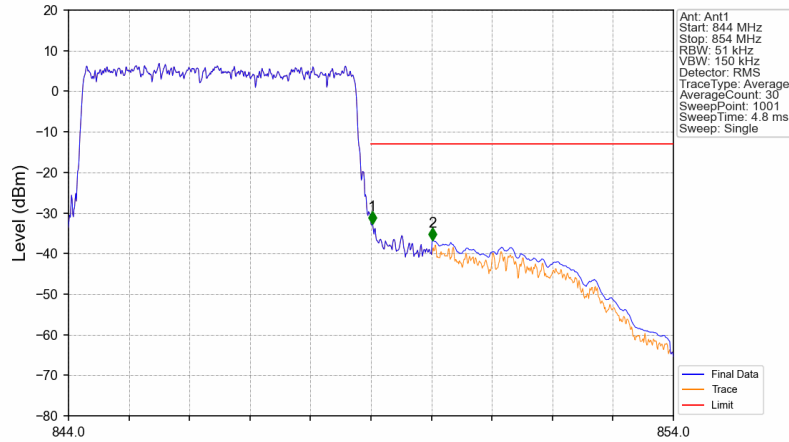


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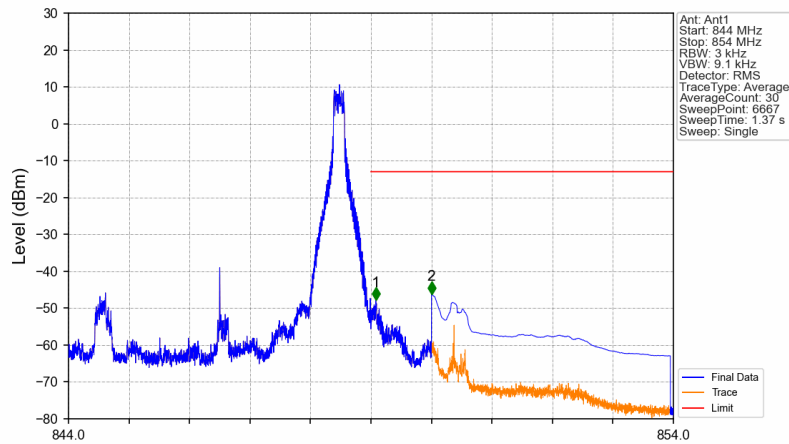
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.020	-32.74	-13	Pass
850	854	0.1	CHP	2	850.020	-36.85	-13	Pass

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.081	-47.83	-13	Pass
850	854	0.1	CHP	2	850.001	-46.15	-13	Pass

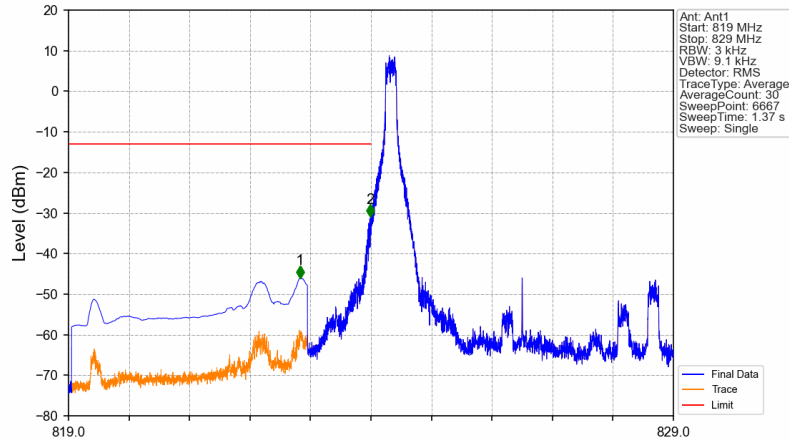


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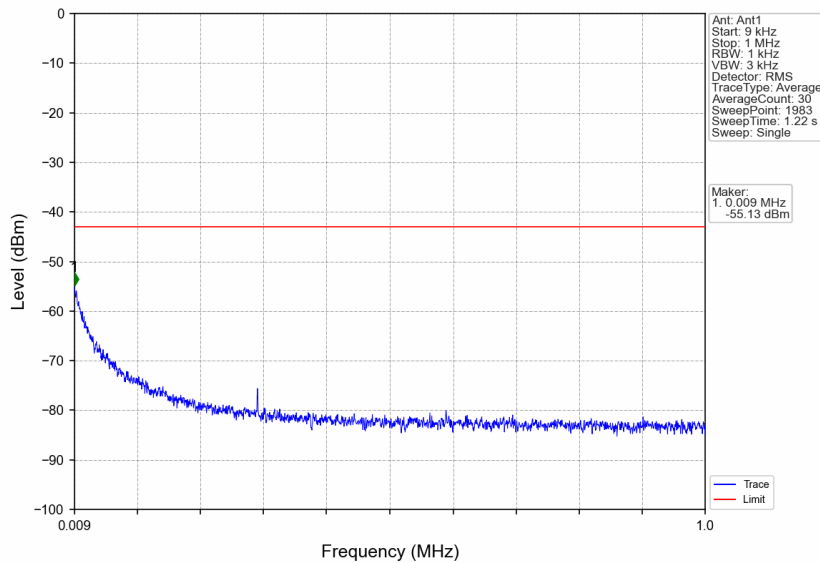
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.824	-46.07	-13	Pass
823	824	0.003	/	2	823.994	-30.96	-13	Pass
824	829	0.003	/	/	/	/	/	/

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left

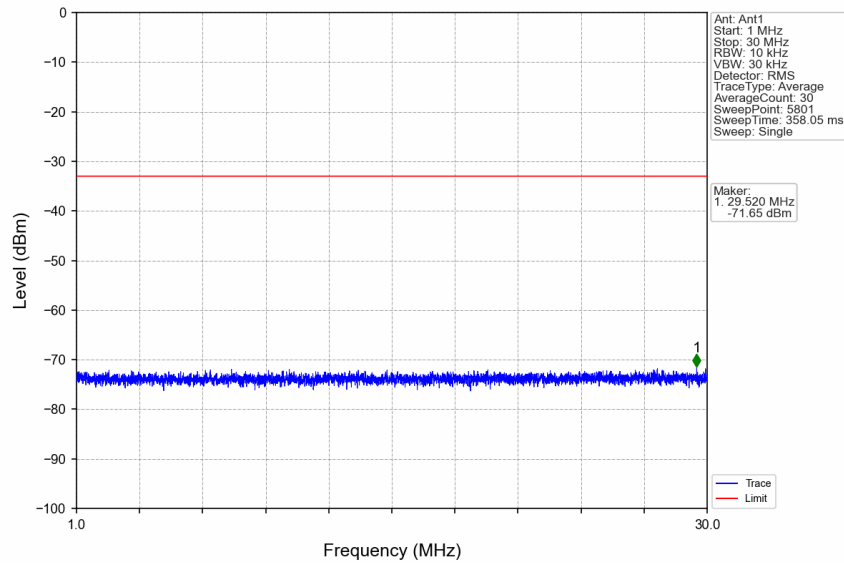


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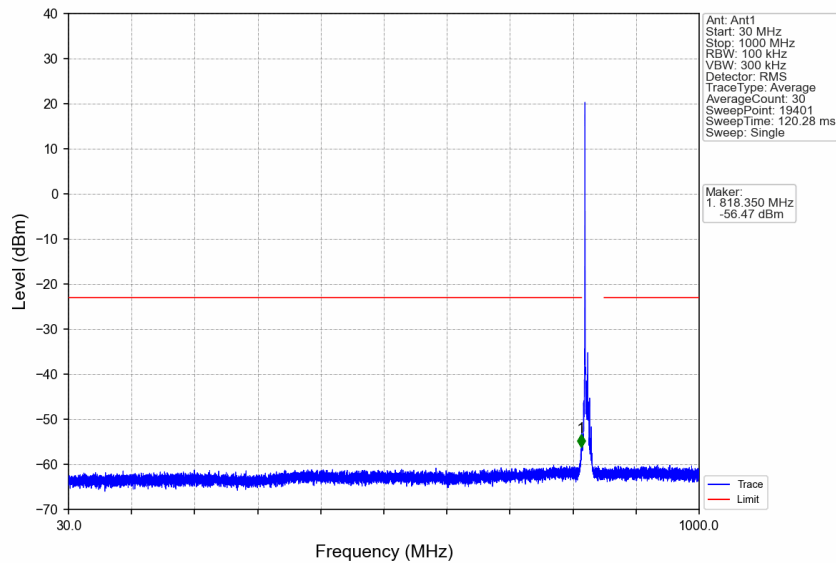
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left

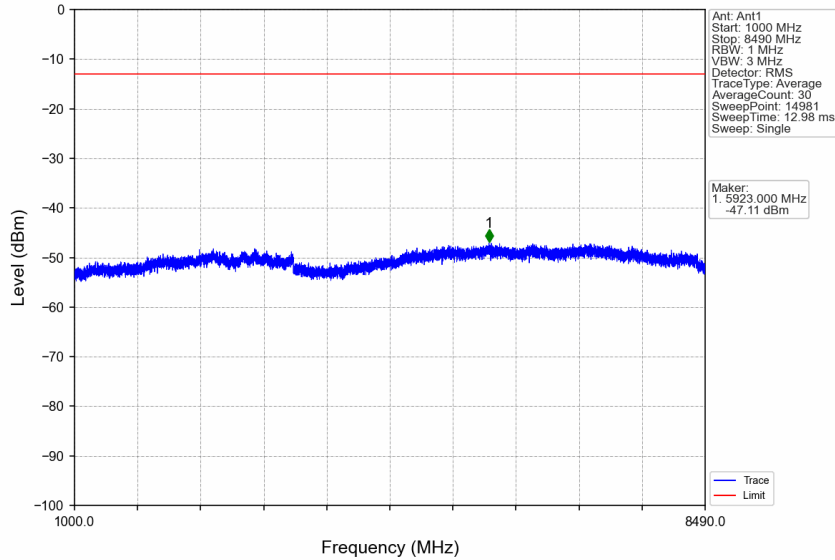


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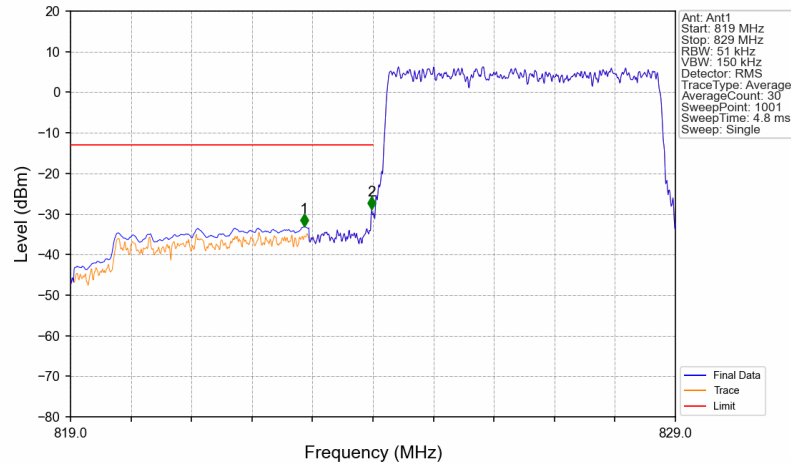
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.860	-33.10	-13	Pass
823	824	0.051	/	2	823.980	-28.87	-13	Pass
824	829	0.051	/	/	/	/	/	/



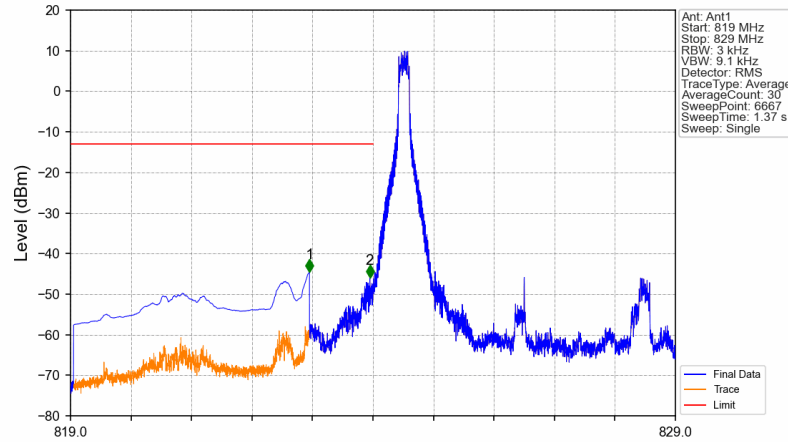
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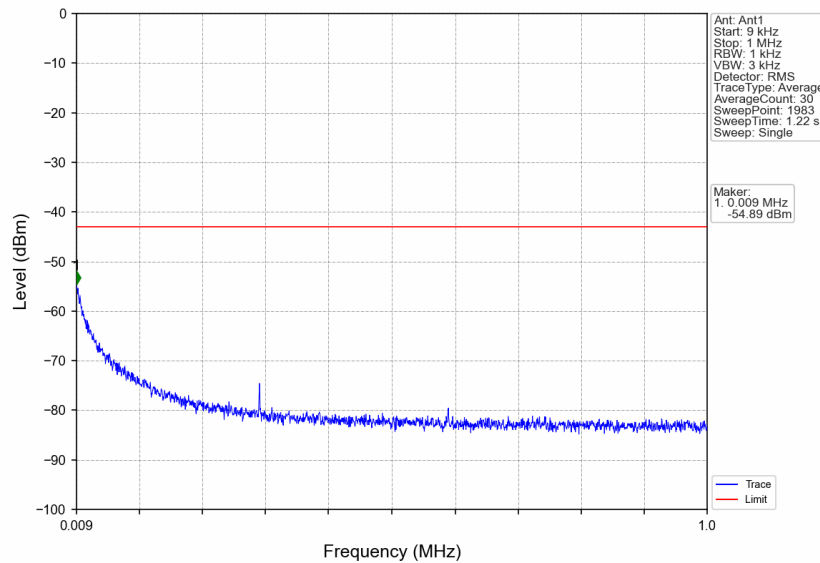
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.950	-44.53	-13	Pass
823	824	0.003	/	2	823.949	-46.00	-13	Pass
824	829	0.003	/	/	/	/	/	/

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_836.5MHz_Edge_1RB_Left



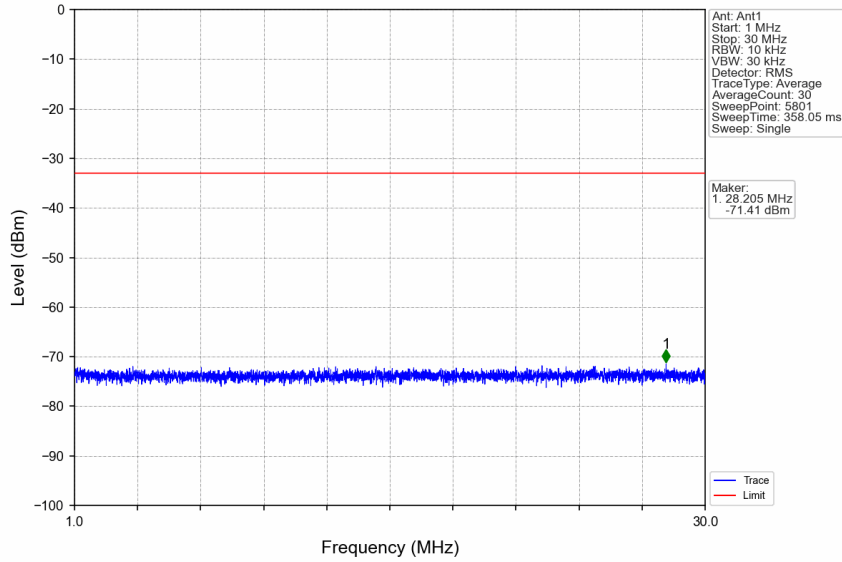
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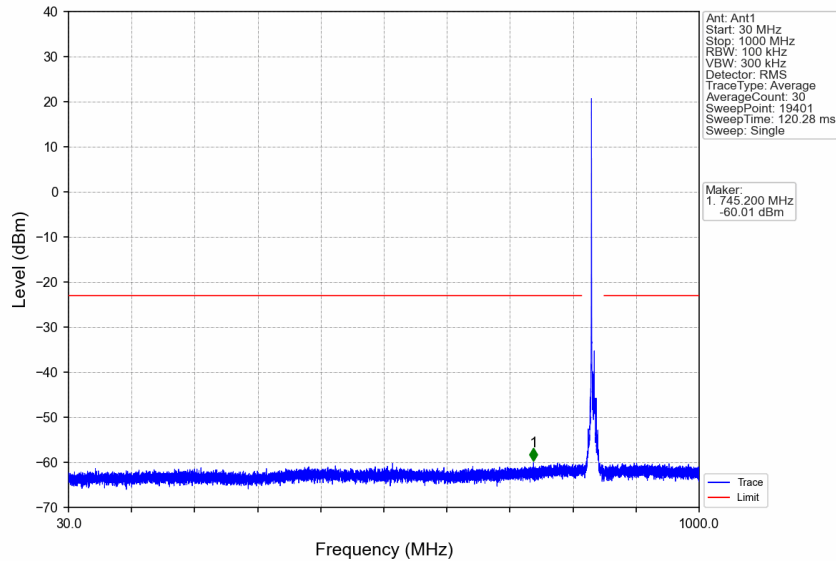
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_836.5MHz_Edge_1RB_Left

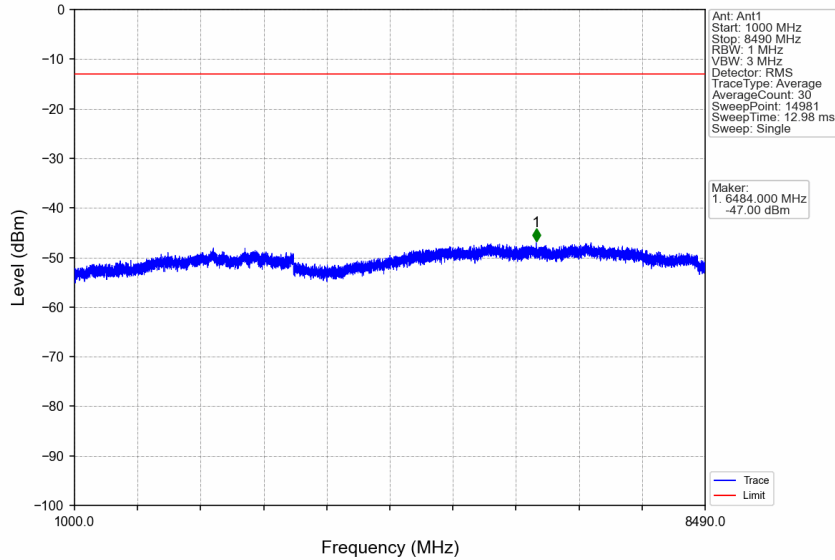


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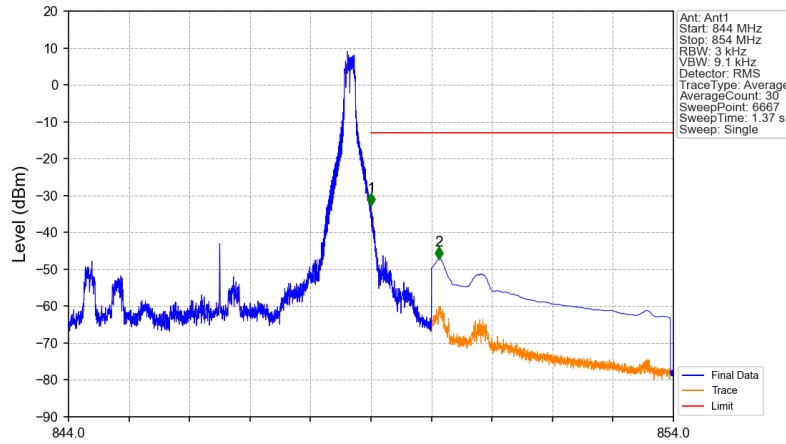
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.005	-32.81	-13	Pass
850	854	0.1	CHP	2	850.127	-47.28	-13	Pass

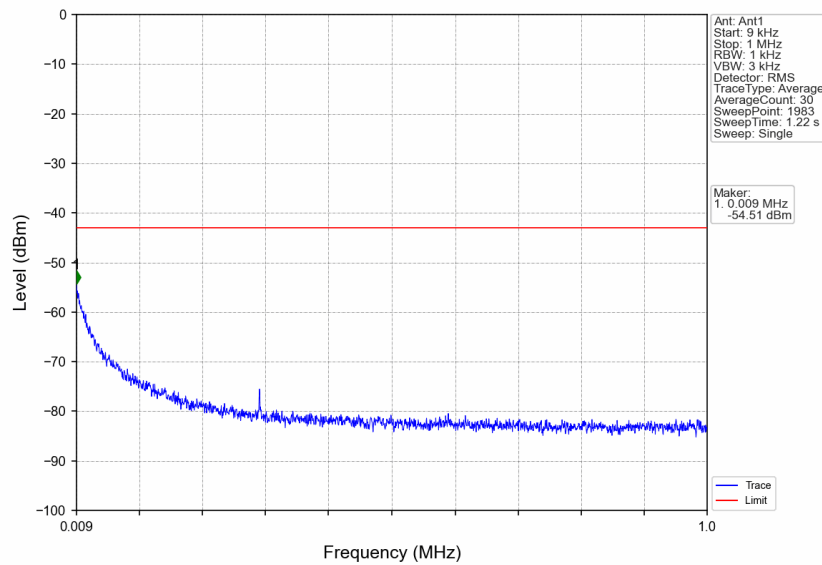


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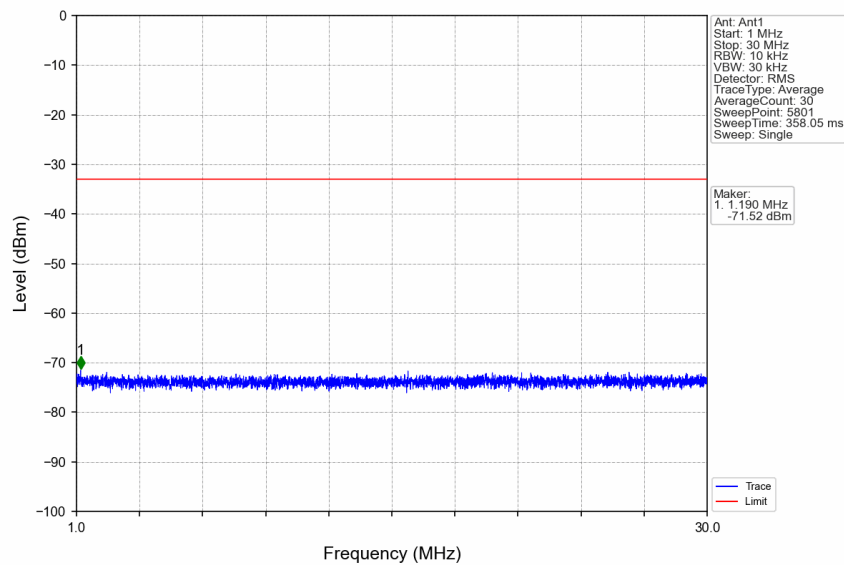
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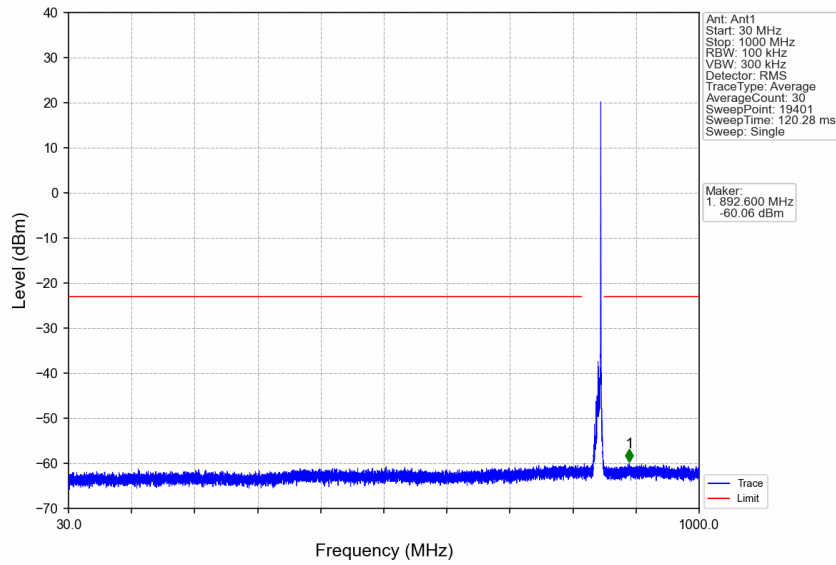
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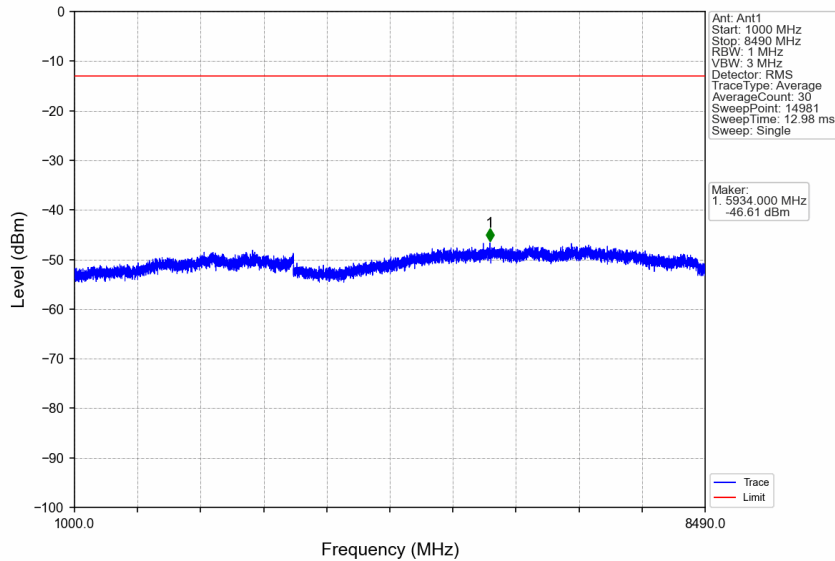
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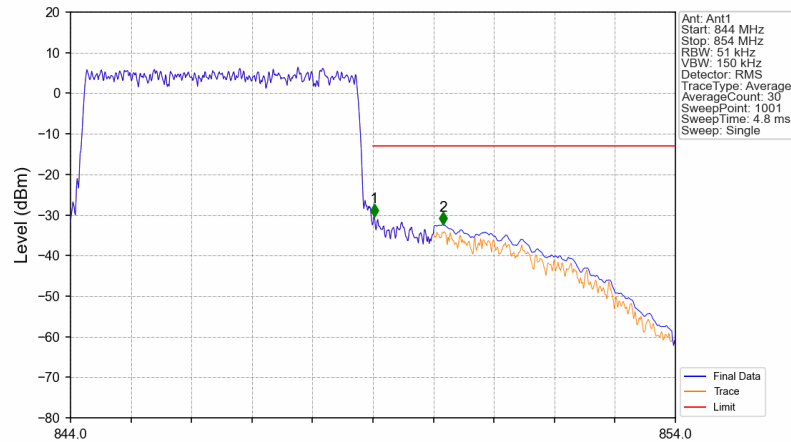
n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Edge_1RB_Right



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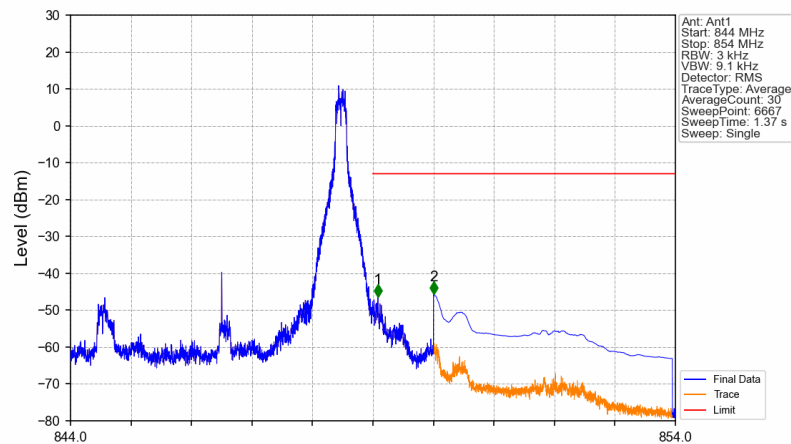
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.020	-30.38	-13	Pass
850	854	0.1	CHP	2	850.160	-32.39	-13	Pass

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.081	-46.46	-13	Pass
850	854	0.1	CHP	2	850.002	-45.66	-13	Pass

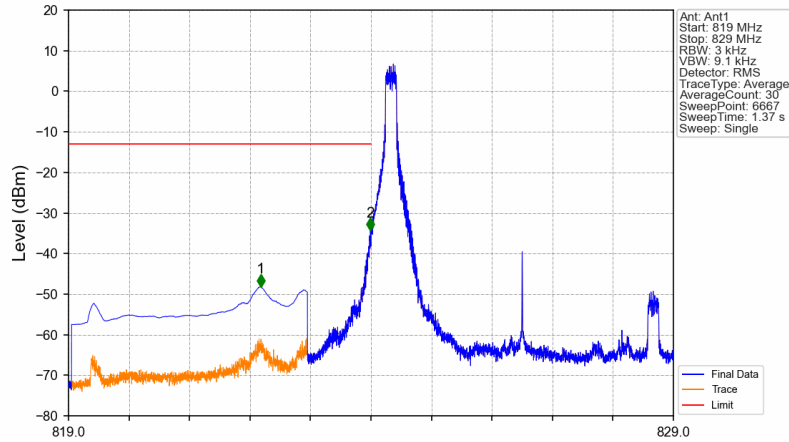


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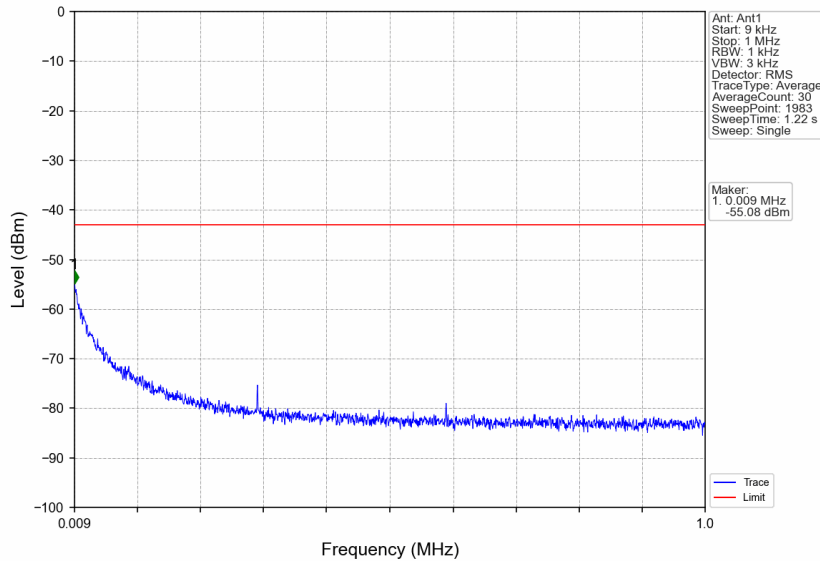
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.176	-48.19	-13	Pass
823	824	0.003	/	2	823.991	-34.36	-13	Pass
824	829	0.003	/	/	/	/	/	/

n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Edge_1RB_Left

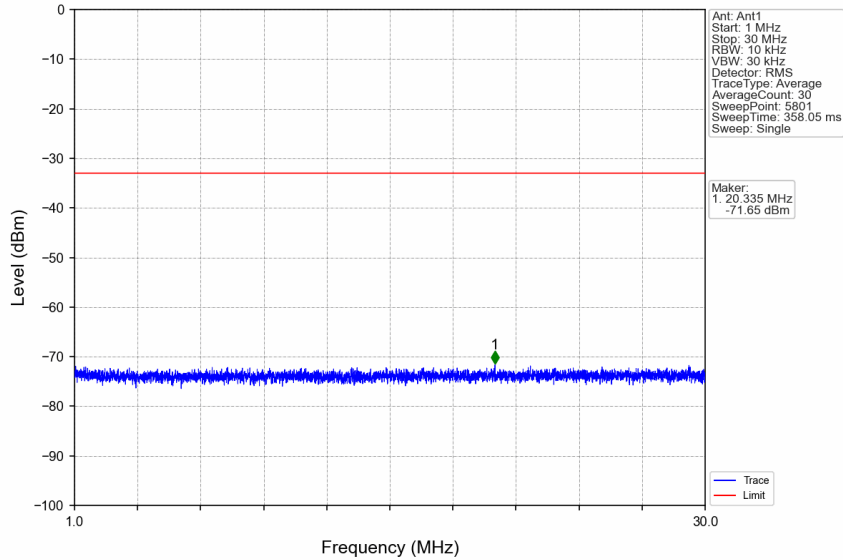


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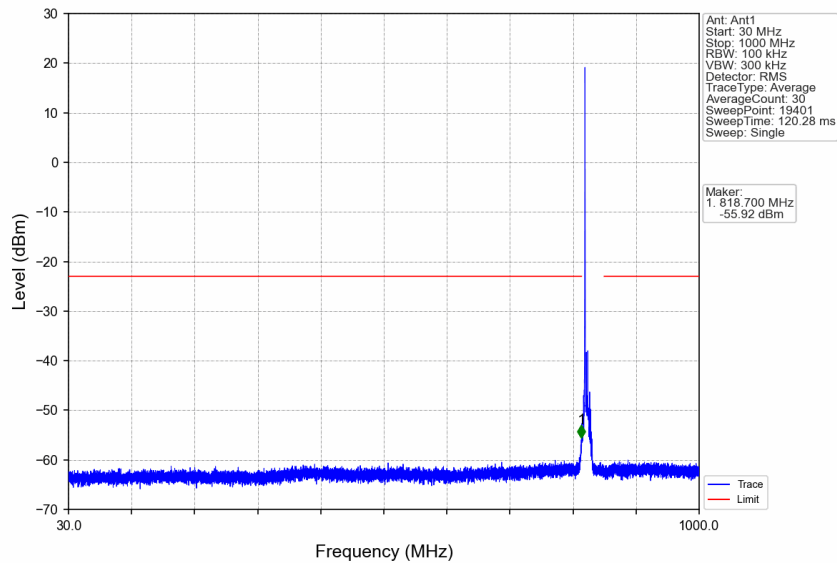
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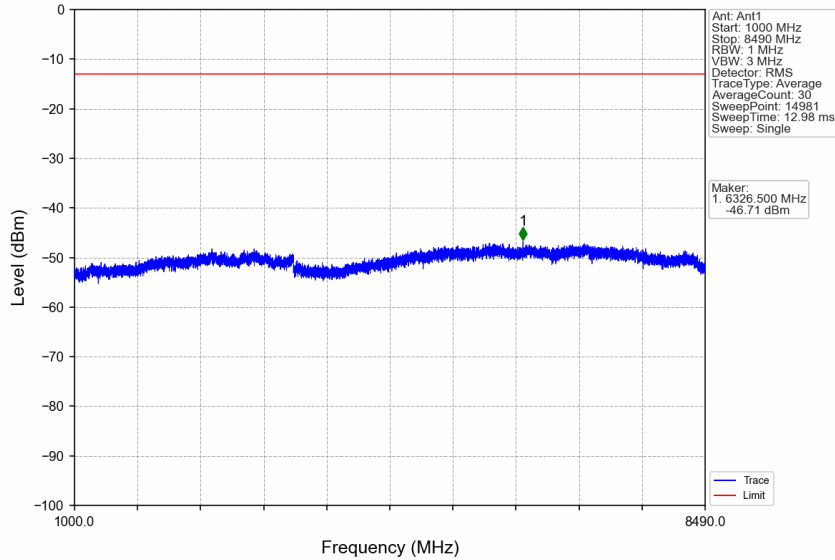


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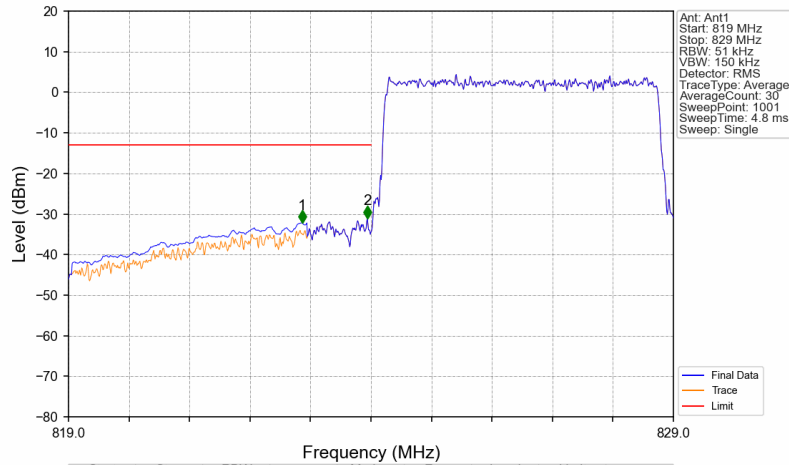
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.860	-32.15	-13	Pass
823	824	0.051	/	2	823.940	-31.06	-13	Pass
824	829	0.051	/	/	/	/	/	/

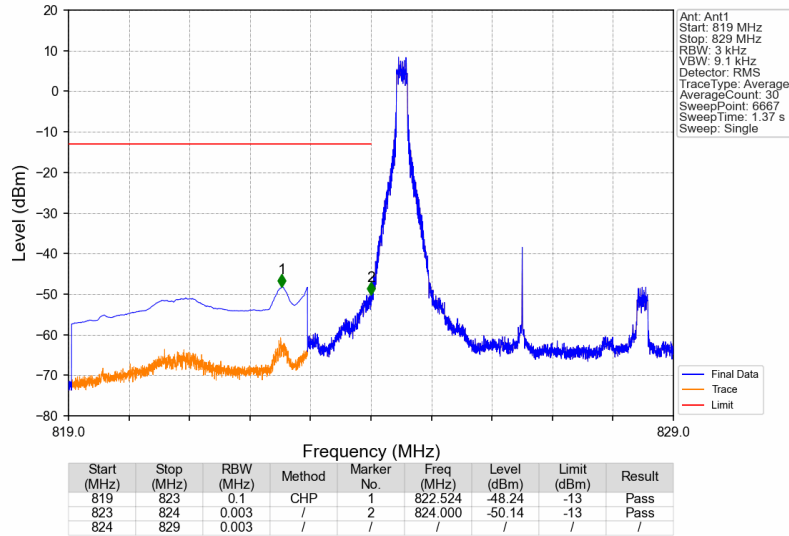


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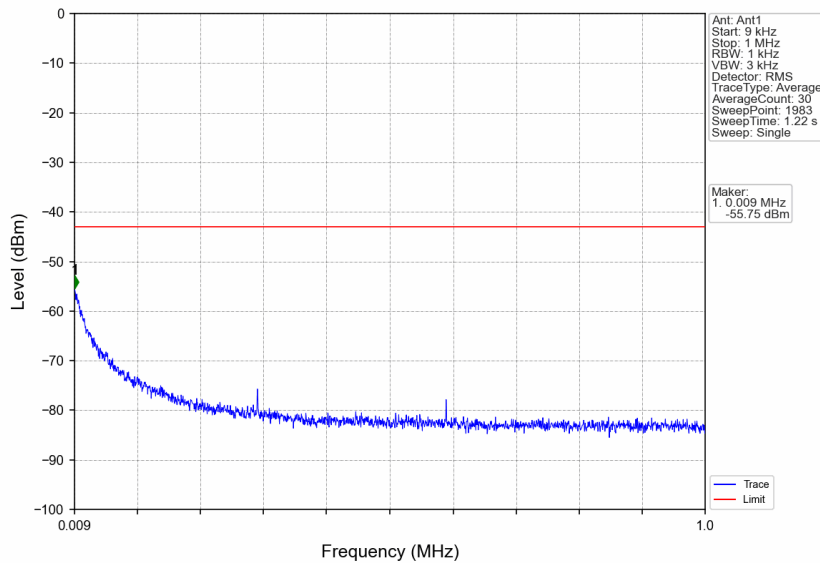
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Inner_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left

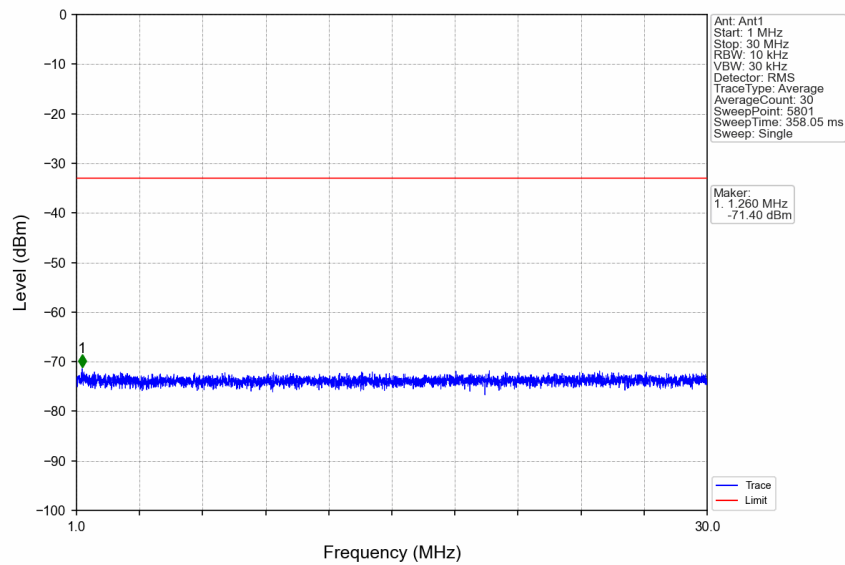


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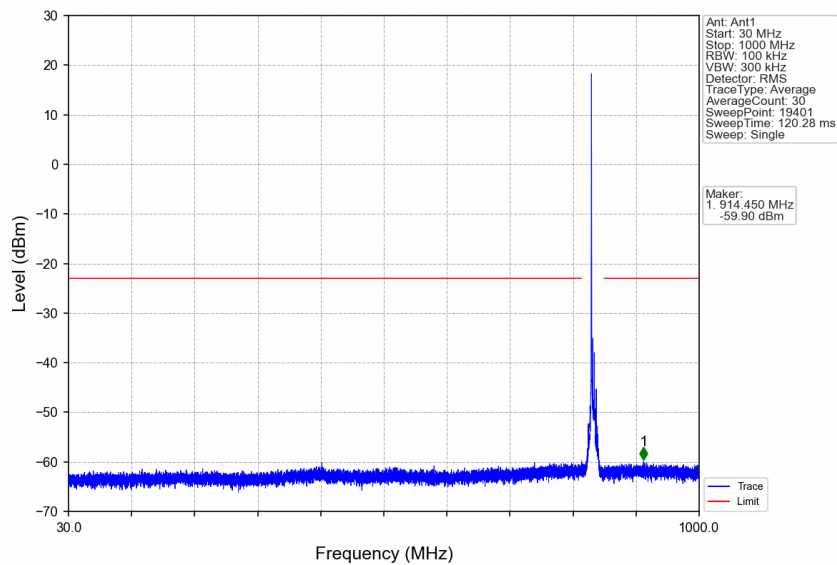
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left

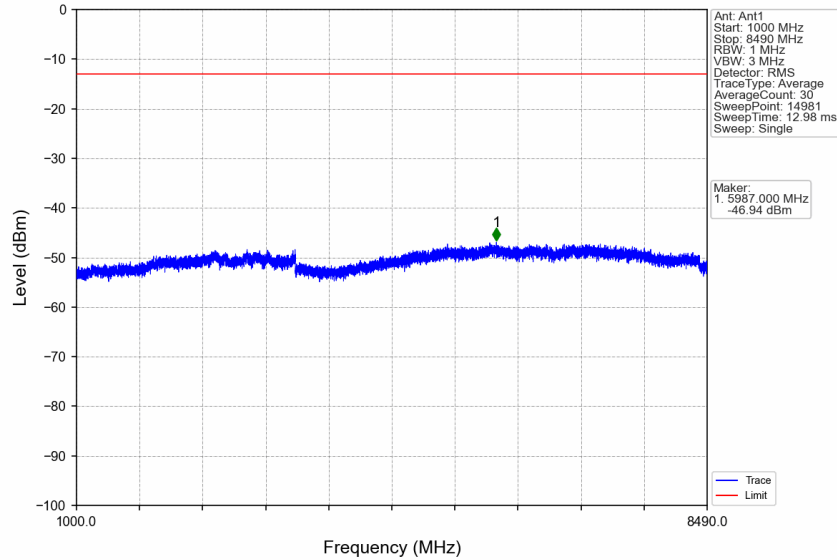


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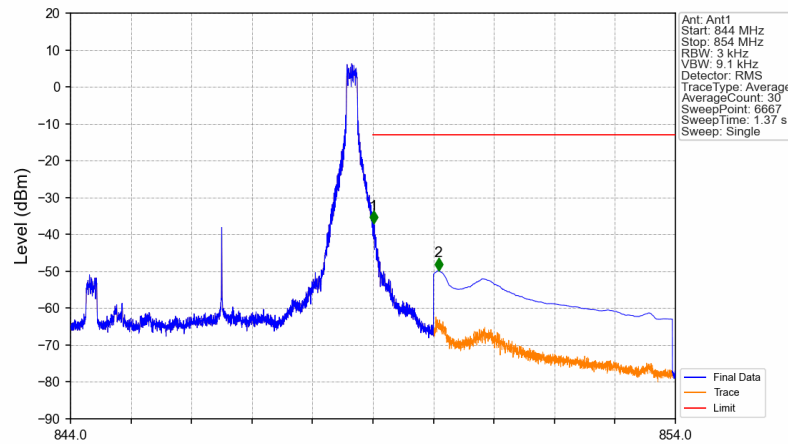
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.009	-37.12	-13	Pass
850	854	0.1	CHP	2	850.082	-49.74	-13	Pass



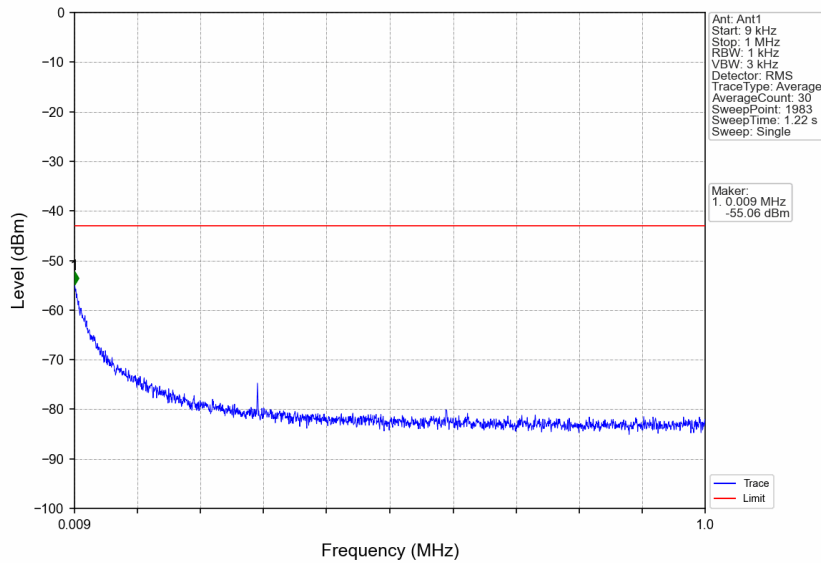
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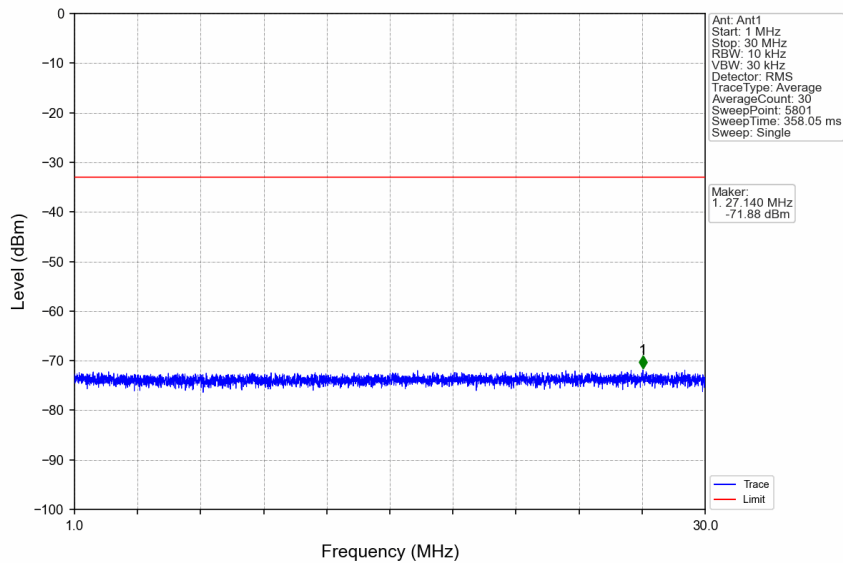
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Edge_1RB_Right



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