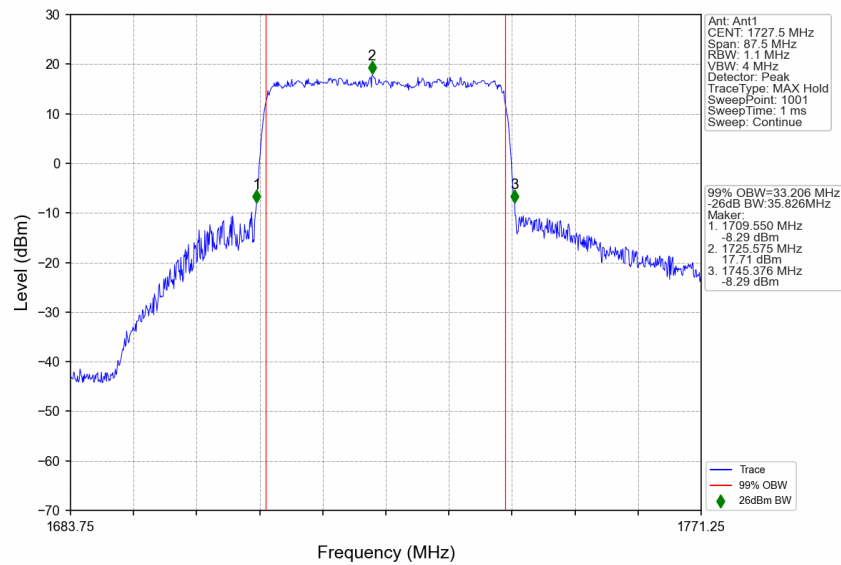
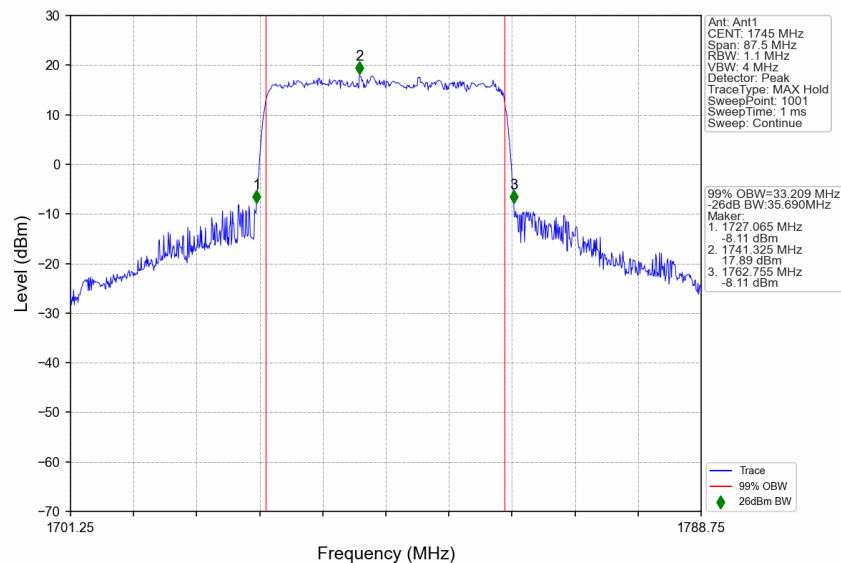


n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 16 QAM\_1727.5MHz\_Outer\_Full



n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 16 QAM\_1745MHz\_Outer\_Full

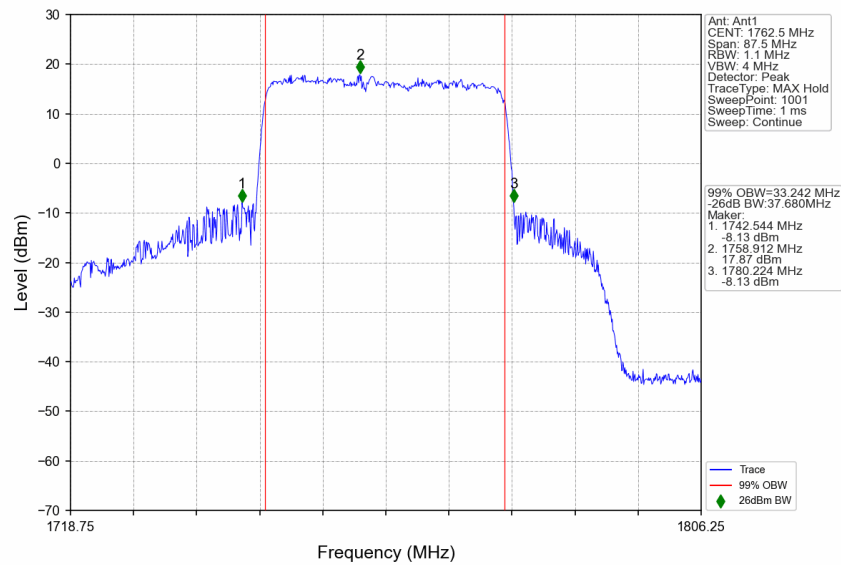


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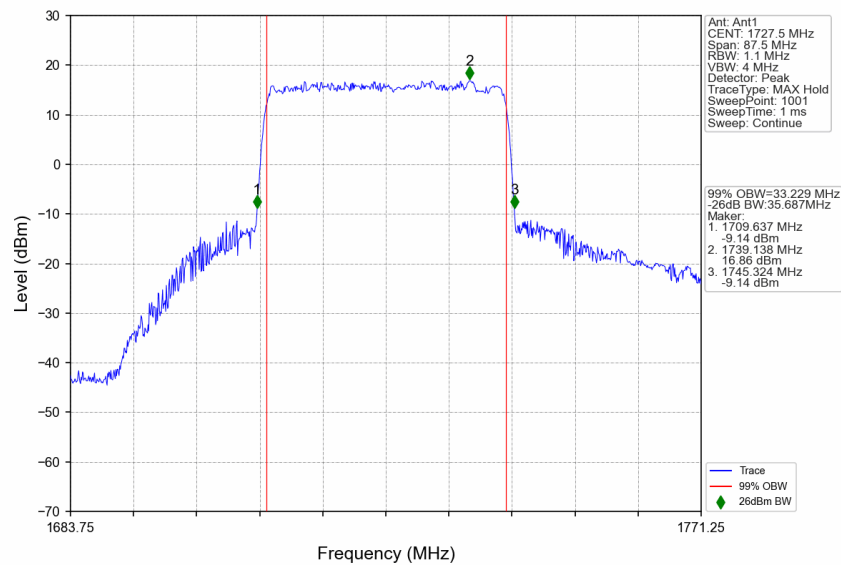
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n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 16 QAM\_1762.5MHz\_Outer\_Full



n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 64 QAM\_1727.5MHz\_Outer\_Full

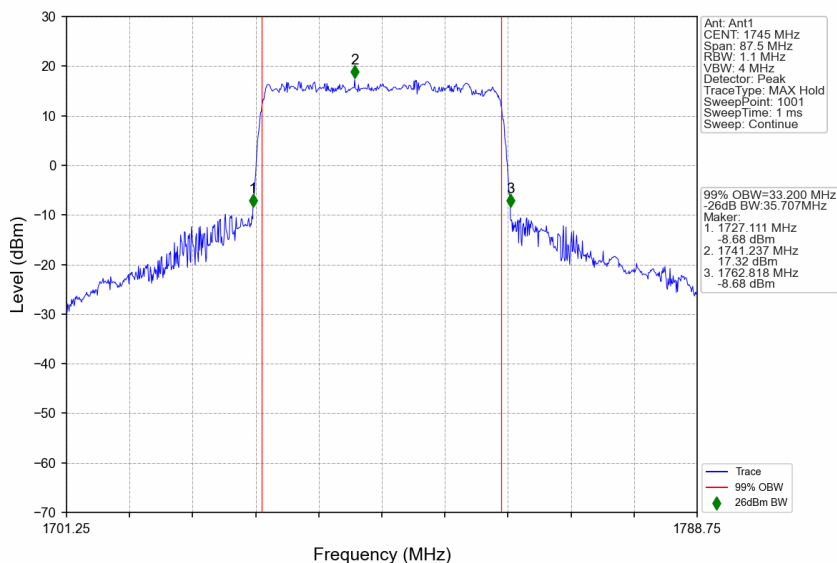


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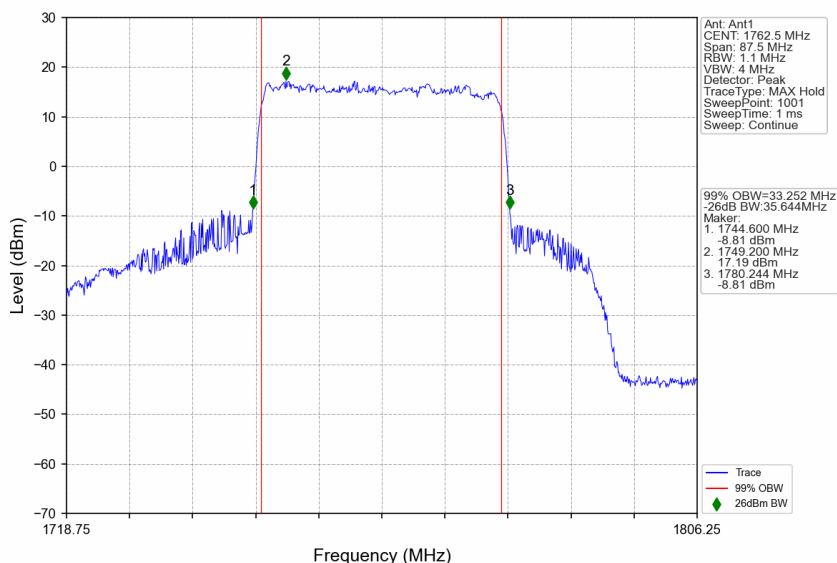
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n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 64 QAM\_1745MHz\_Outer\_Full



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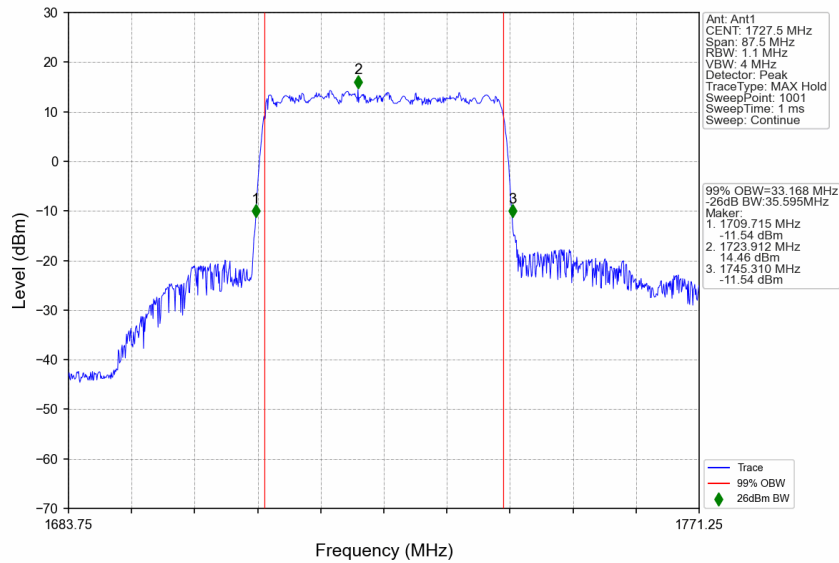
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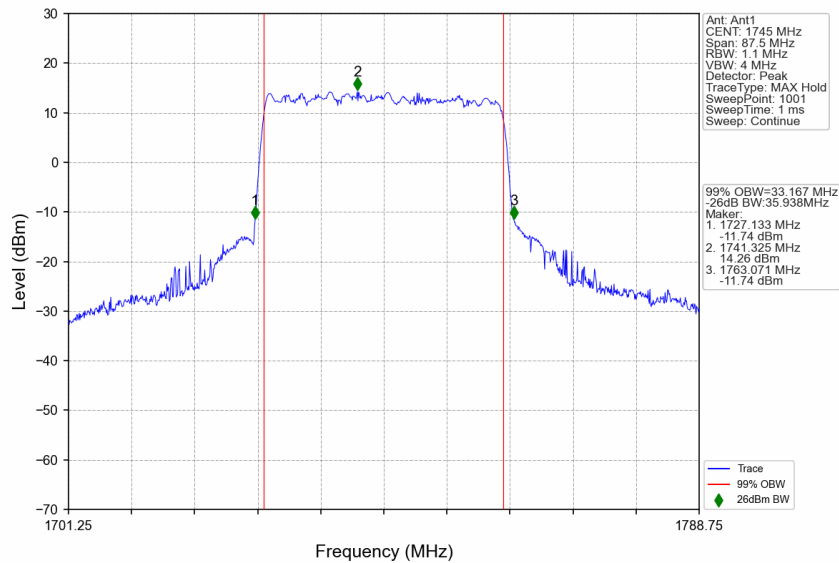
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n66\_30kHz\_SISO\_NTNV\_35MHz\_CP-OFDM 256 QAM\_1745MHz\_Outer\_Full



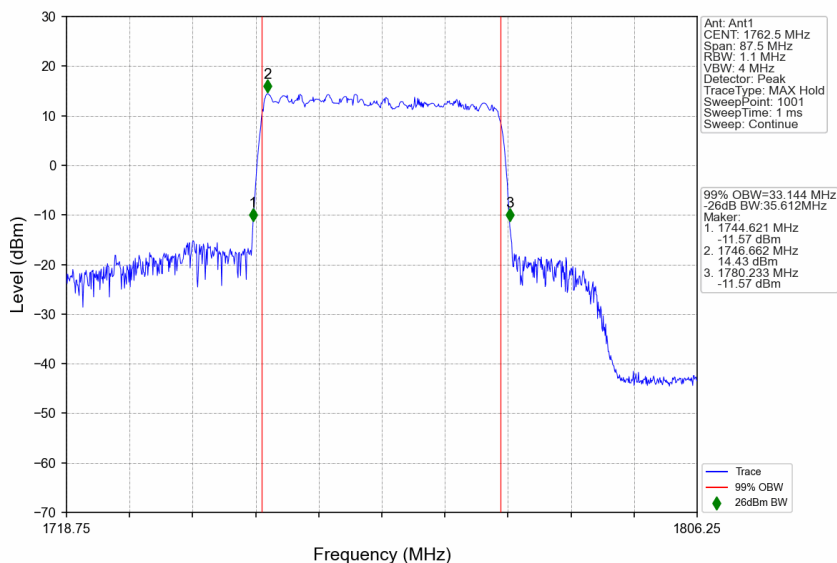
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4.15 30k\_SISO\_40MHz\_NTNV

4.15.1 Test Result

5G NR n66 SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1730	Outer_Full	36.17	38.76	/	Pass
	1745	Outer_Full	36.38	38.67	/	Pass
	1760	Outer_Full	36.13	38.68	/	Pass
DFT-s-OFDM QPSK	1730	Outer_Full	36.41	38.61	/	Pass
	1745	Outer_Full	36.09	38.74	/	Pass
	1760	Outer_Full	36.05	38.60	/	Pass
DFT-s-OFDM 16 QAM	1730	Outer_Full	36.03	38.72	/	Pass
	1745	Outer_Full	36.05	38.81	/	Pass
	1760	Outer_Full	35.97	38.73	/	Pass
DFT-s-OFDM 64 QAM	1730	Outer_Full	36.13	38.83	/	Pass
	1745	Outer_Full	36.13	38.73	/	Pass
	1760	Outer_Full	36.14	38.65	/	Pass
DFT-s-OFDM 256 QAM	1730	Outer_Full	36.00	38.70	/	Pass
	1745	Outer_Full	36.03	38.65	/	Pass
	1760	Outer_Full	35.99	38.63	/	Pass
CP-OFDM QPSK	1730	Outer_Full	38.18	46.78	/	Pass
	1745	Outer_Full	38.19	46.96	/	Pass
	1760	Outer_Full	38.14	41.37	/	Pass
CP-OFDM 16 QAM	1730	Outer_Full	38.17	43.31	/	Pass
	1745	Outer_Full	38.14	41.97	/	Pass
	1760	Outer_Full	38.11	42.05	/	Pass
CP-OFDM 64 QAM	1730	Outer_Full	38.32	43.20	/	Pass
	1745	Outer_Full	38.30	43.11	/	Pass
	1760	Outer_Full	38.20	41.19	/	Pass
CP-OFDM 256 QAM	1730	Outer_Full	38.04	40.85	/	Pass
	1745	Outer_Full	38.04	40.88	/	Pass
	1760	Outer_Full	38.02	40.87	/	Pass

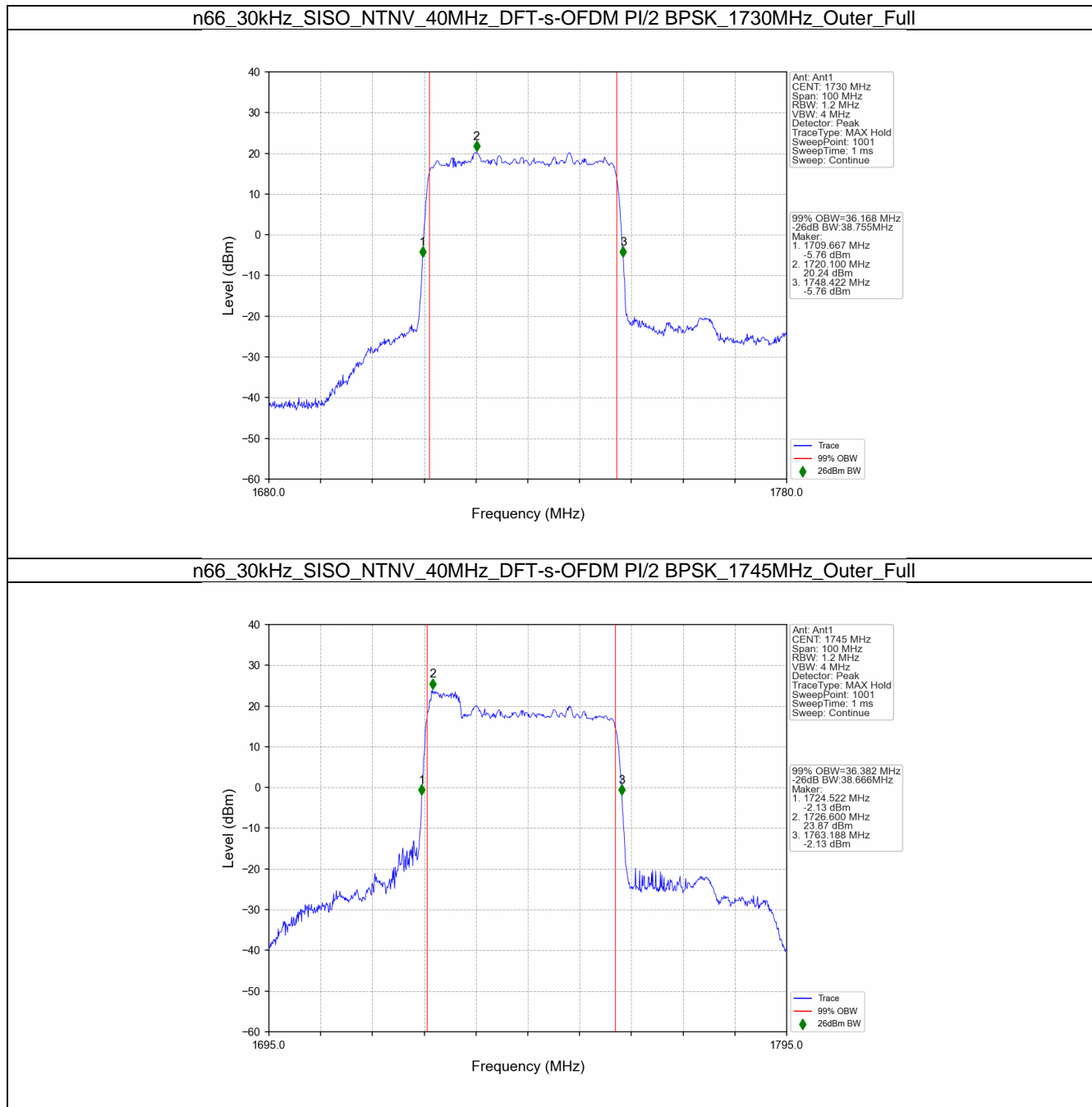


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4.15.2 Test Graph

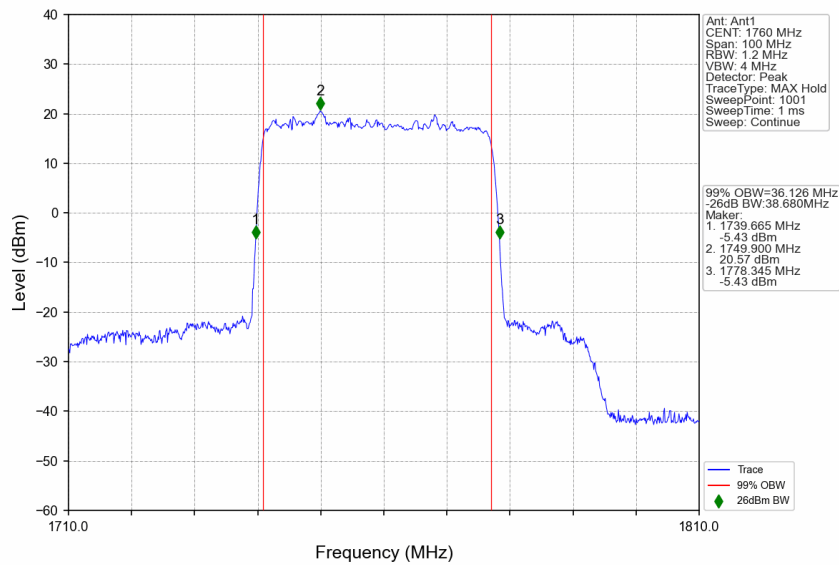


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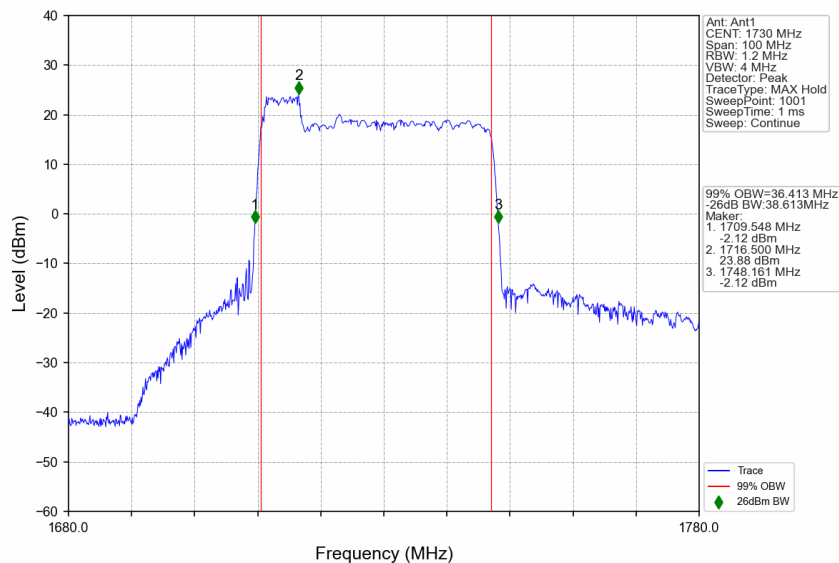
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n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_1760MHz\_Outer\_Full



n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_1730MHz\_Outer\_Full



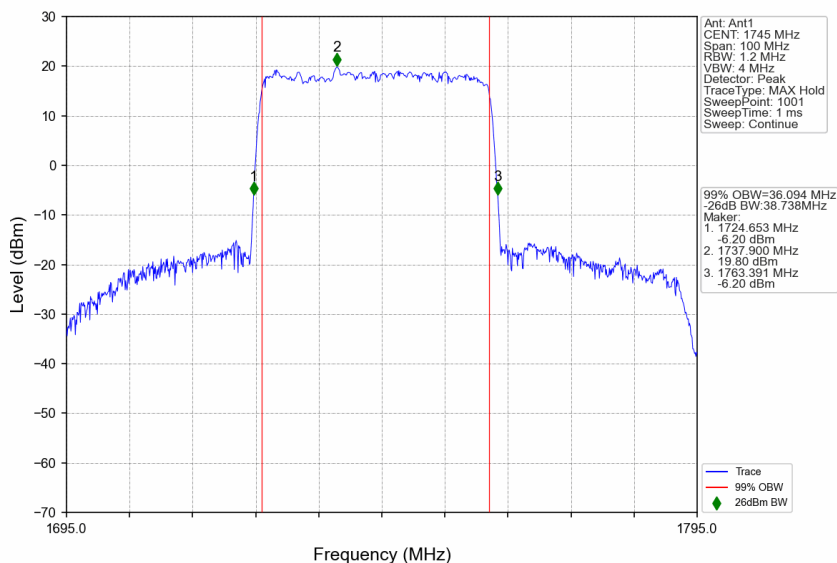
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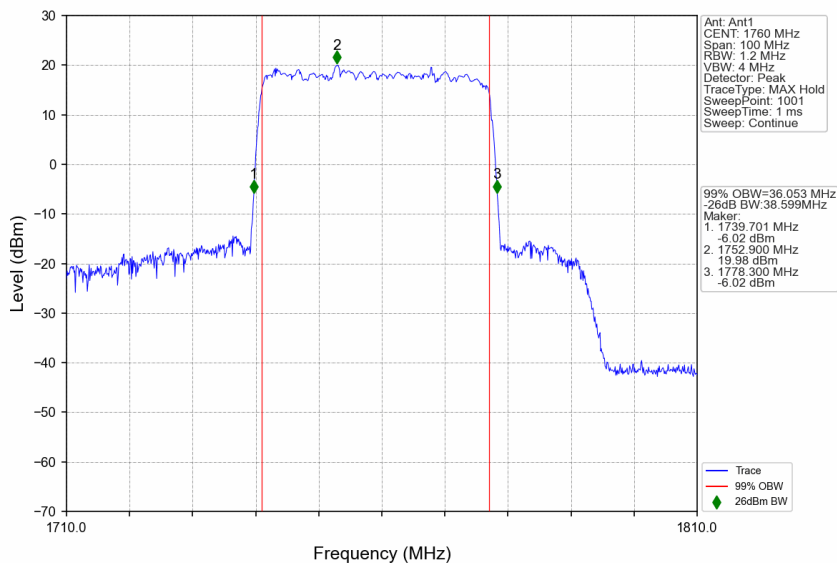
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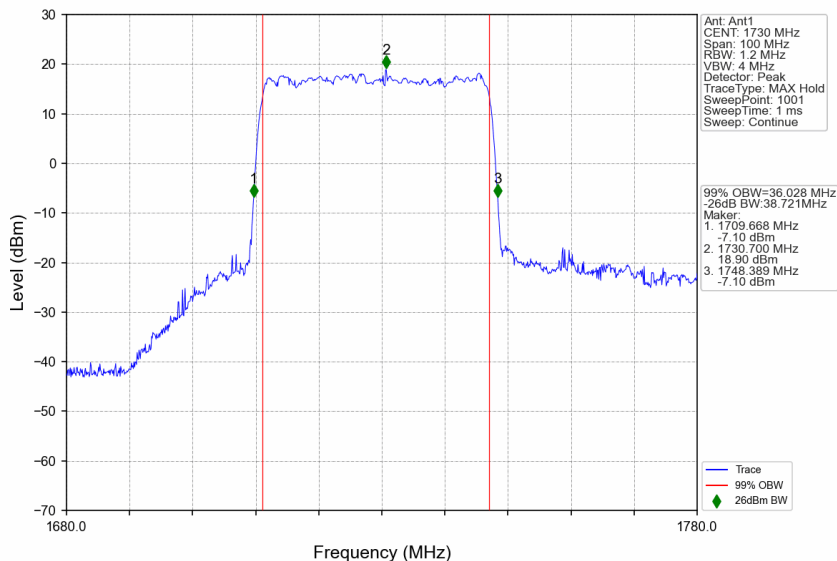


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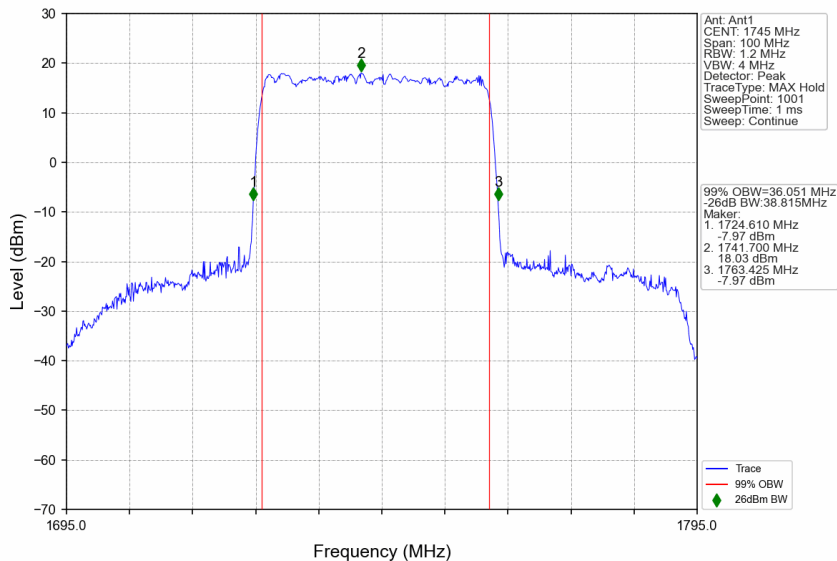
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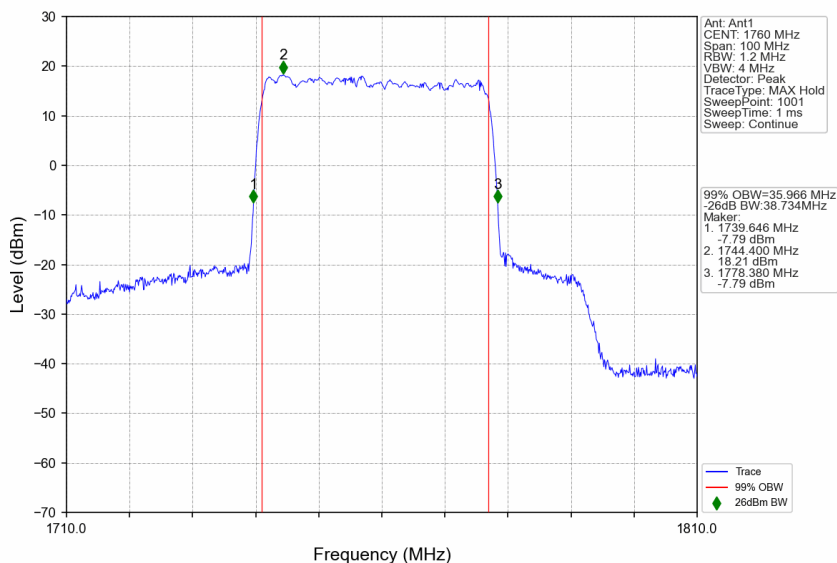


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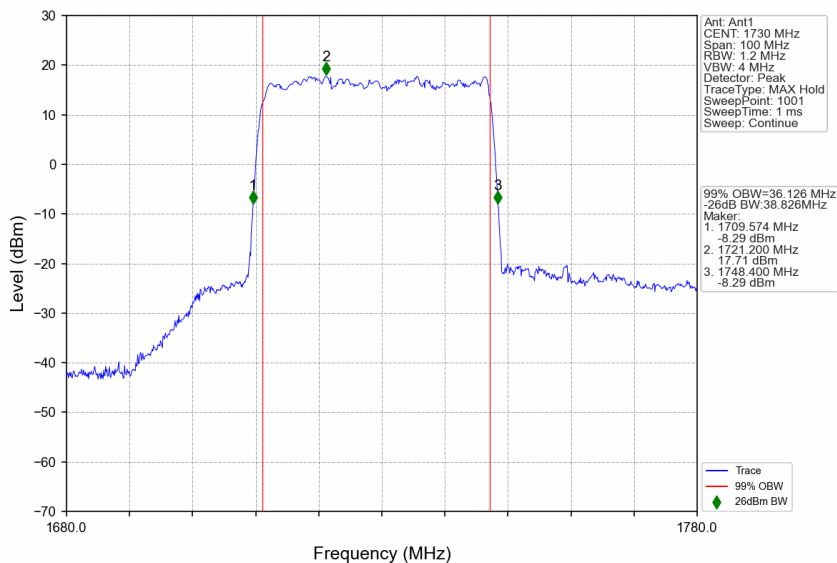
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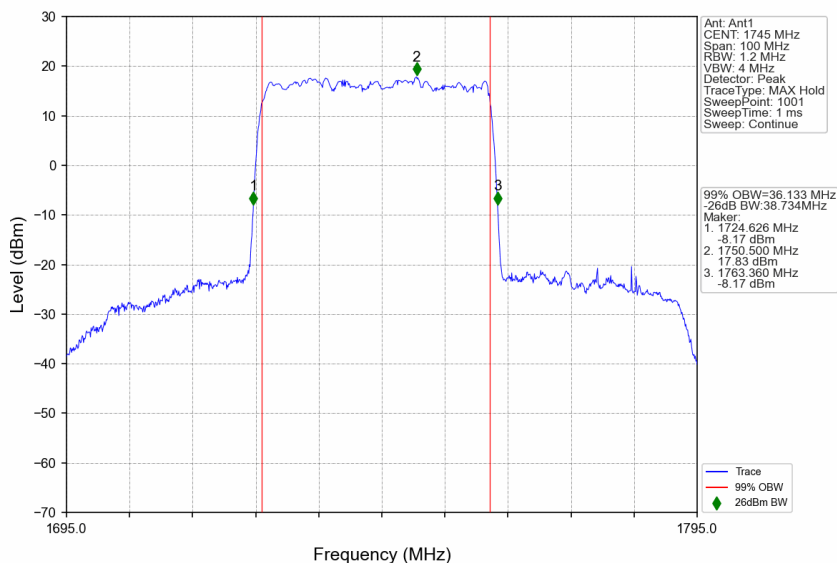


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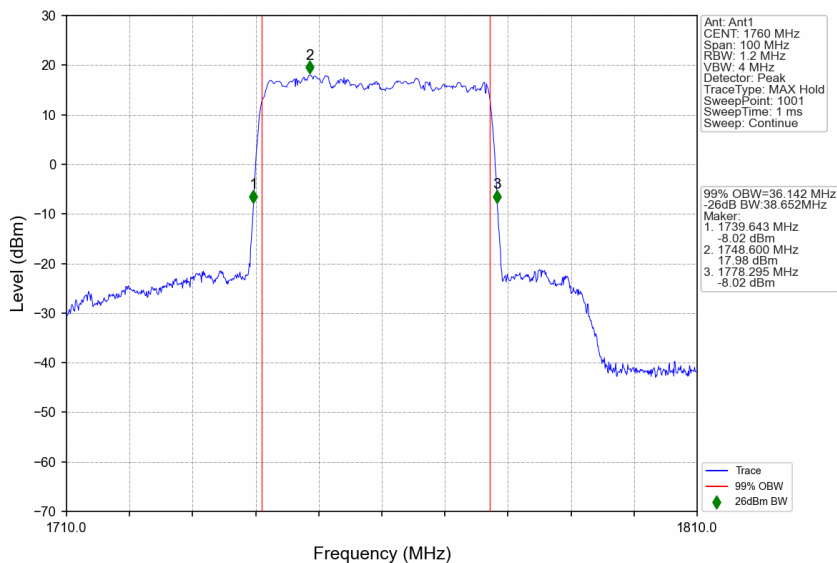
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n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_1745MHz\_Outer\_Full



n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_1760MHz\_Outer\_Full



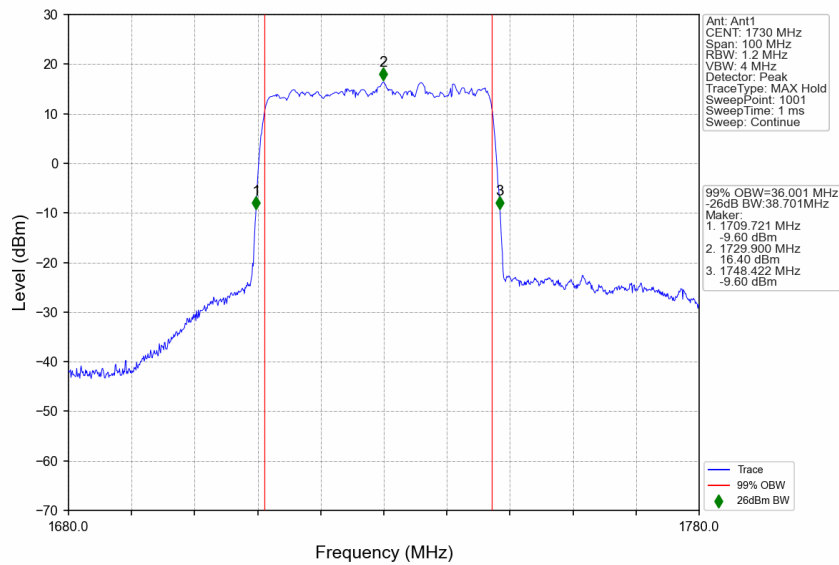
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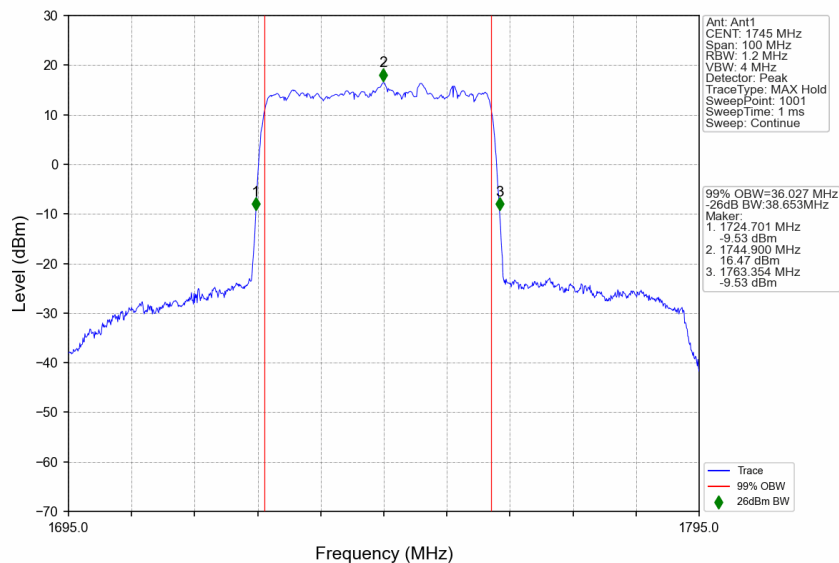
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n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_1730MHz\_Outer\_Full



n66\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_1745MHz\_Outer\_Full

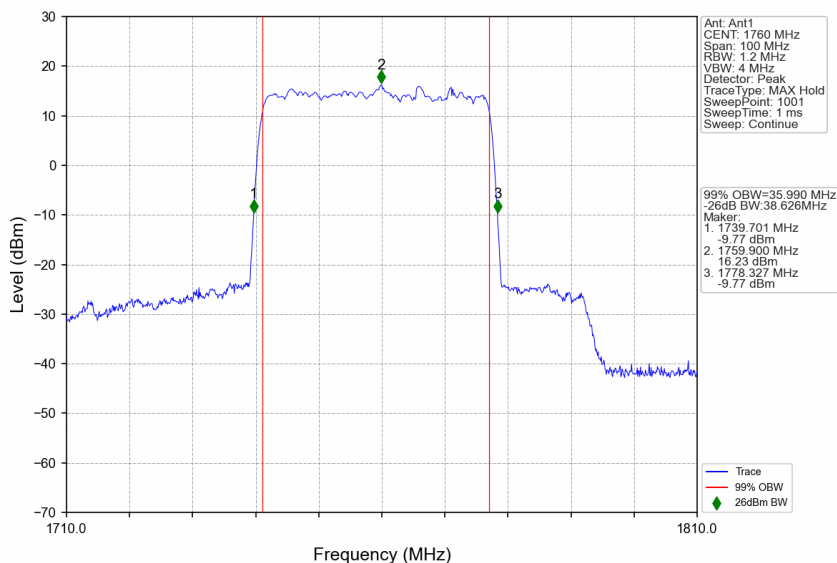


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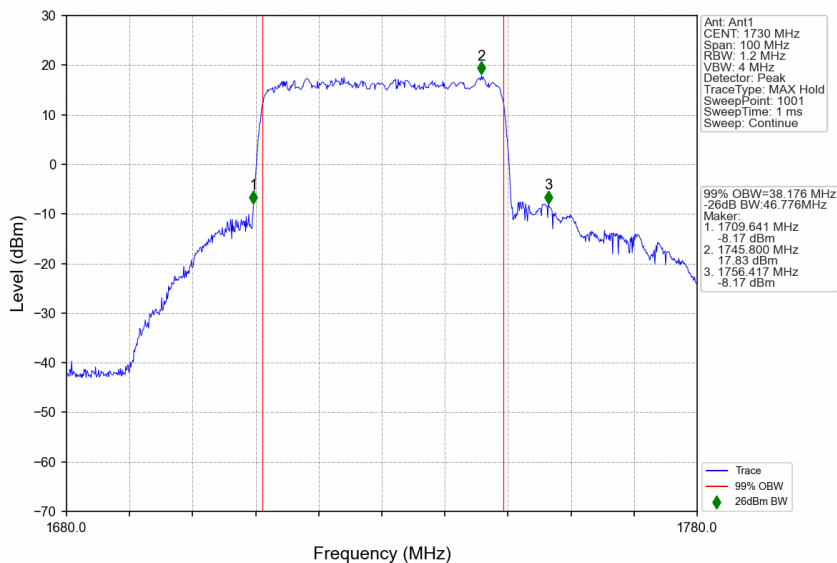
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n66\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_1730MHz\_Outer\_Full



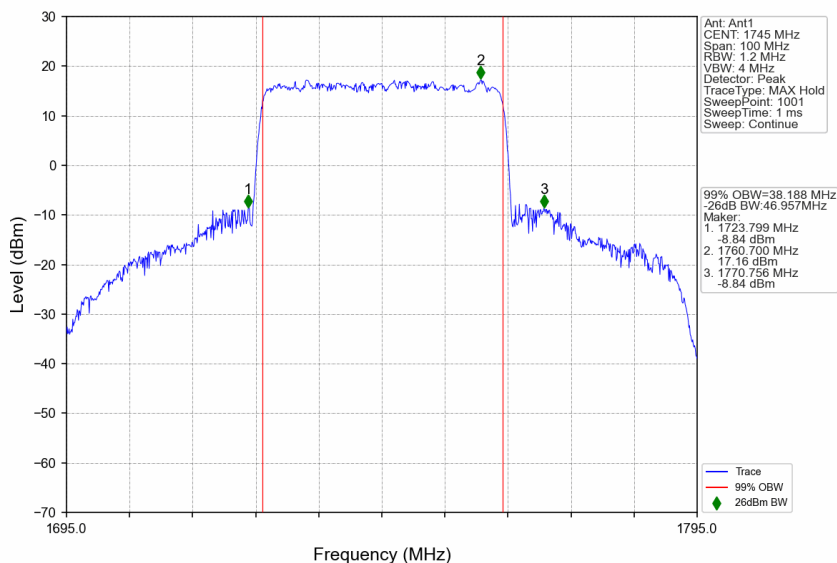
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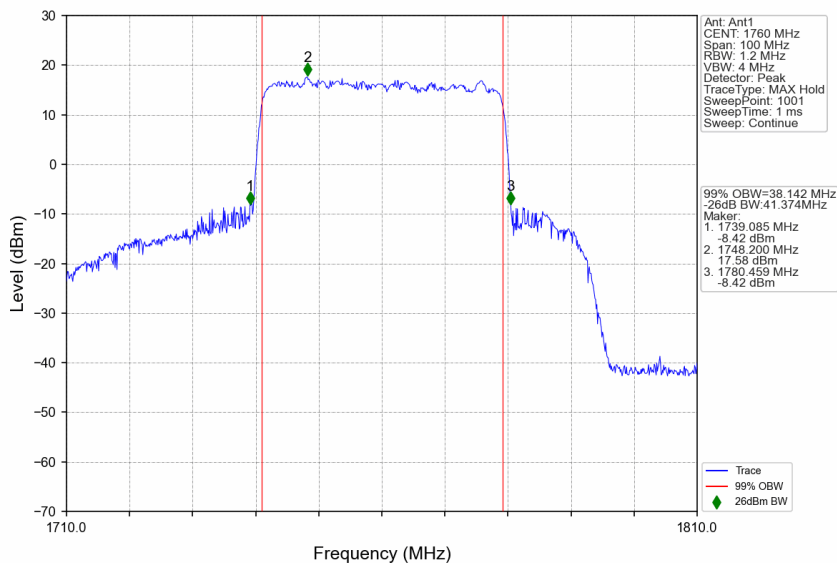
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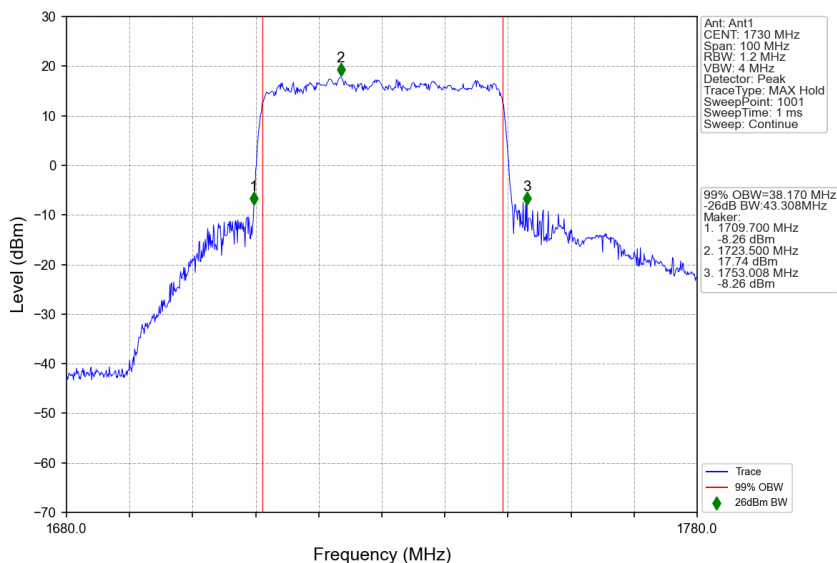


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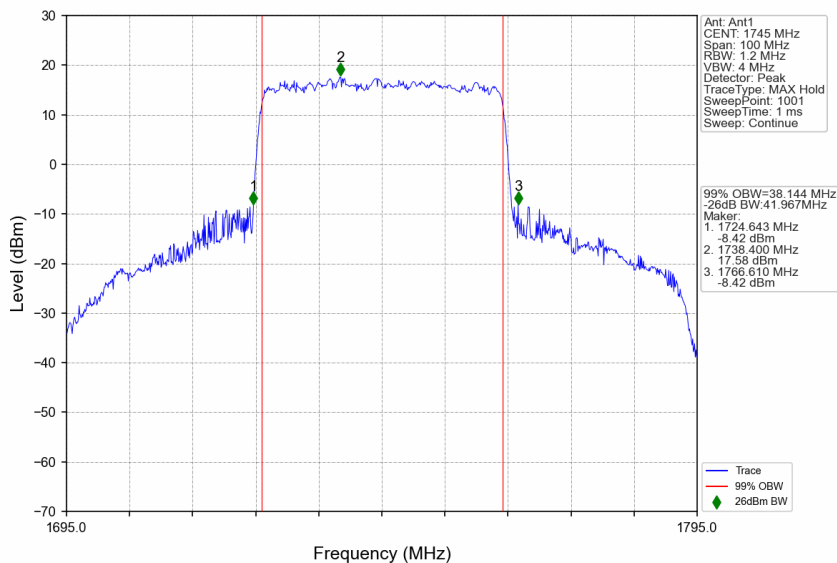
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n66\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 16 QAM\_1730MHz\_Outer\_Full



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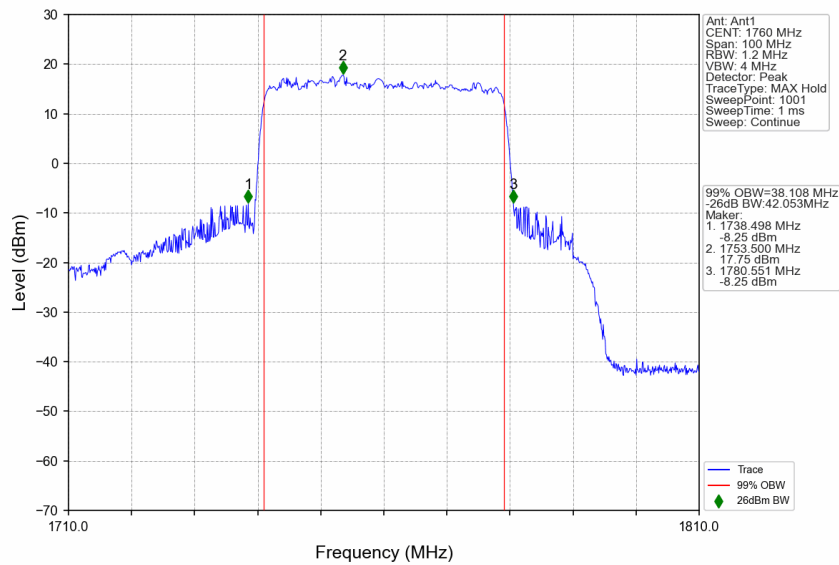
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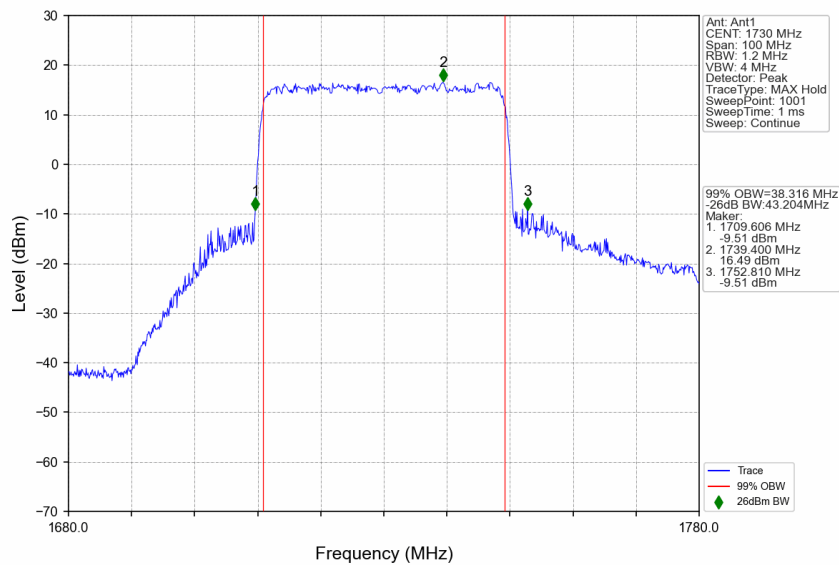
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n66\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM 64 QAM\_1730MHz\_Outer\_Full

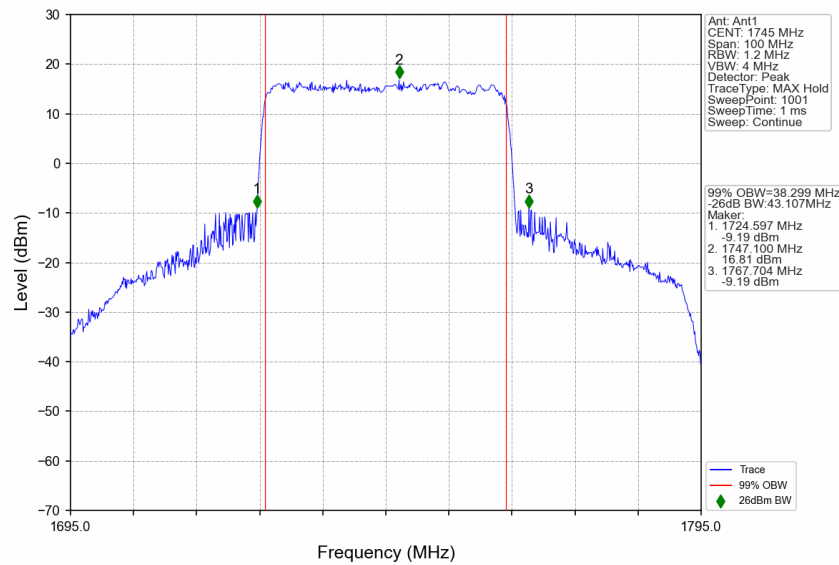


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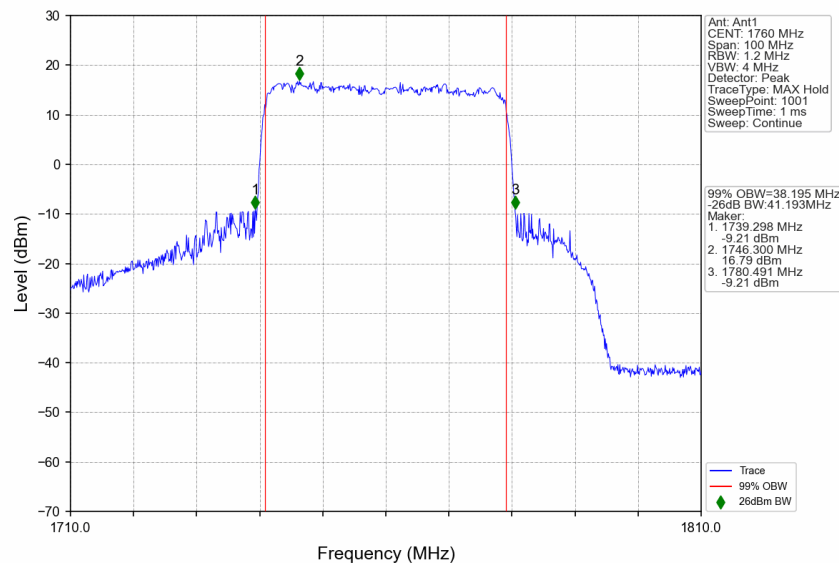
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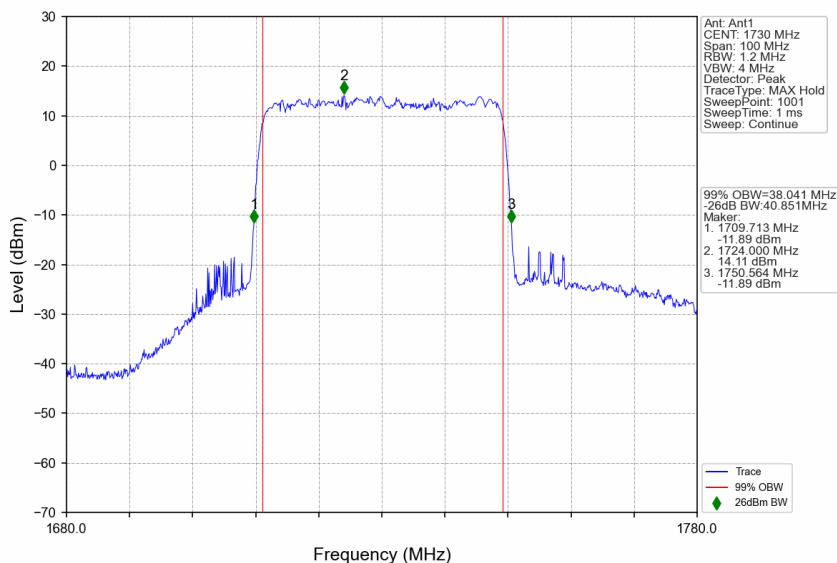
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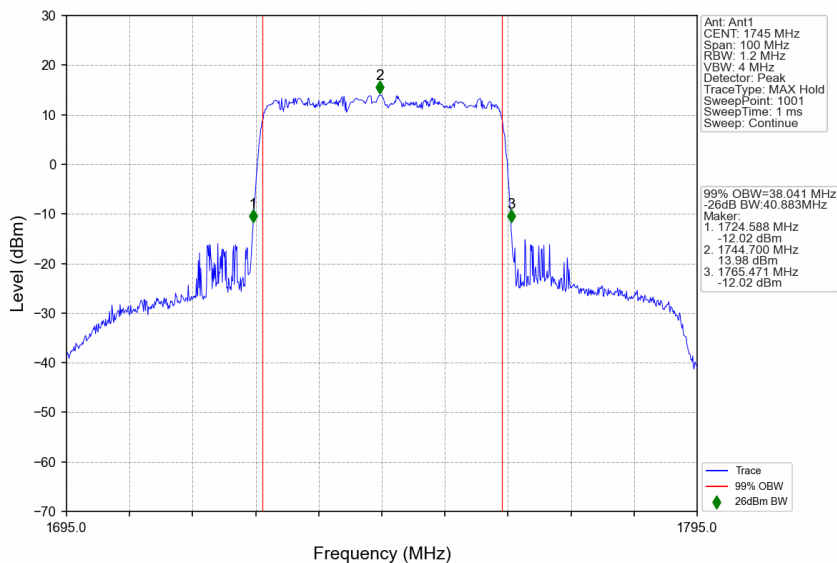
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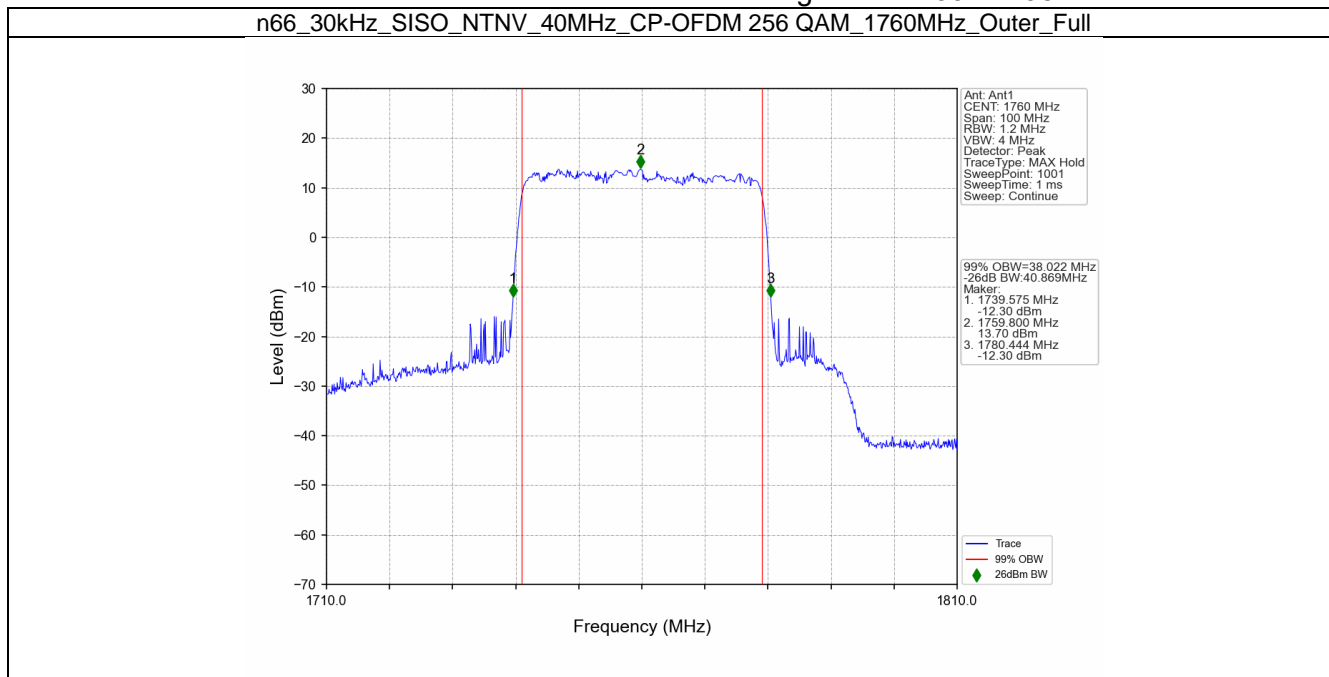


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## 5. Peak-Average Ratio

### 5.1 15k\_SISO\_5MHz\_NTNV

#### 5.1.1 Test Result

5G NR n66 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1712.5	Outer_Full	4.49	/	/	<=13	Pass
	1745	Outer_Full	4.45	/	/	<=13	Pass
	1777.5	Outer_Full	4.60	/	/	<=13	Pass
DFT-s-OFDM QPSK	1712.5	Outer_Full	5.75	/	/	<=13	Pass
	1745	Outer_Full	5.67	/	/	<=13	Pass
	1777.5	Outer_Full	5.80	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1712.5	Outer_Full	6.41	/	/	<=13	Pass
	1745	Outer_Full	6.35	/	/	<=13	Pass
	1777.5	Outer_Full	6.51	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1712.5	Outer_Full	6.59	/	/	<=13	Pass
	1745	Outer_Full	6.52	/	/	<=13	Pass
	1777.5	Outer_Full	6.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1712.5	Outer_Full	7.09	/	/	<=13	Pass
	1745	Outer_Full	7.03	/	/	<=13	Pass
	1777.5	Outer_Full	7.11	/	/	<=13	Pass
CP-OFDM QPSK	1712.5	Outer_Full	8.01	/	/	<=13	Pass
	1745	Outer_Full	7.89	/	/	<=13	Pass
	1777.5	Outer_Full	8.11	/	/	<=13	Pass
CP-OFDM 16 QAM	1712.5	Outer_Full	7.88	/	/	<=13	Pass
	1745	Outer_Full	7.78	/	/	<=13	Pass
	1777.5	Outer_Full	7.97	/	/	<=13	Pass
CP-OFDM 64 QAM	1712.5	Outer_Full	8.31	/	/	<=13	Pass
	1745	Outer_Full	8.18	/	/	<=13	Pass
	1777.5	Outer_Full	8.39	/	/	<=13	Pass
CP-OFDM 256 QAM	1712.5	Outer_Full	8.78	/	/	<=13	Pass
	1745	Outer_Full	8.69	/	/	<=13	Pass
	1777.5	Outer_Full	8.80	/	/	<=13	Pass

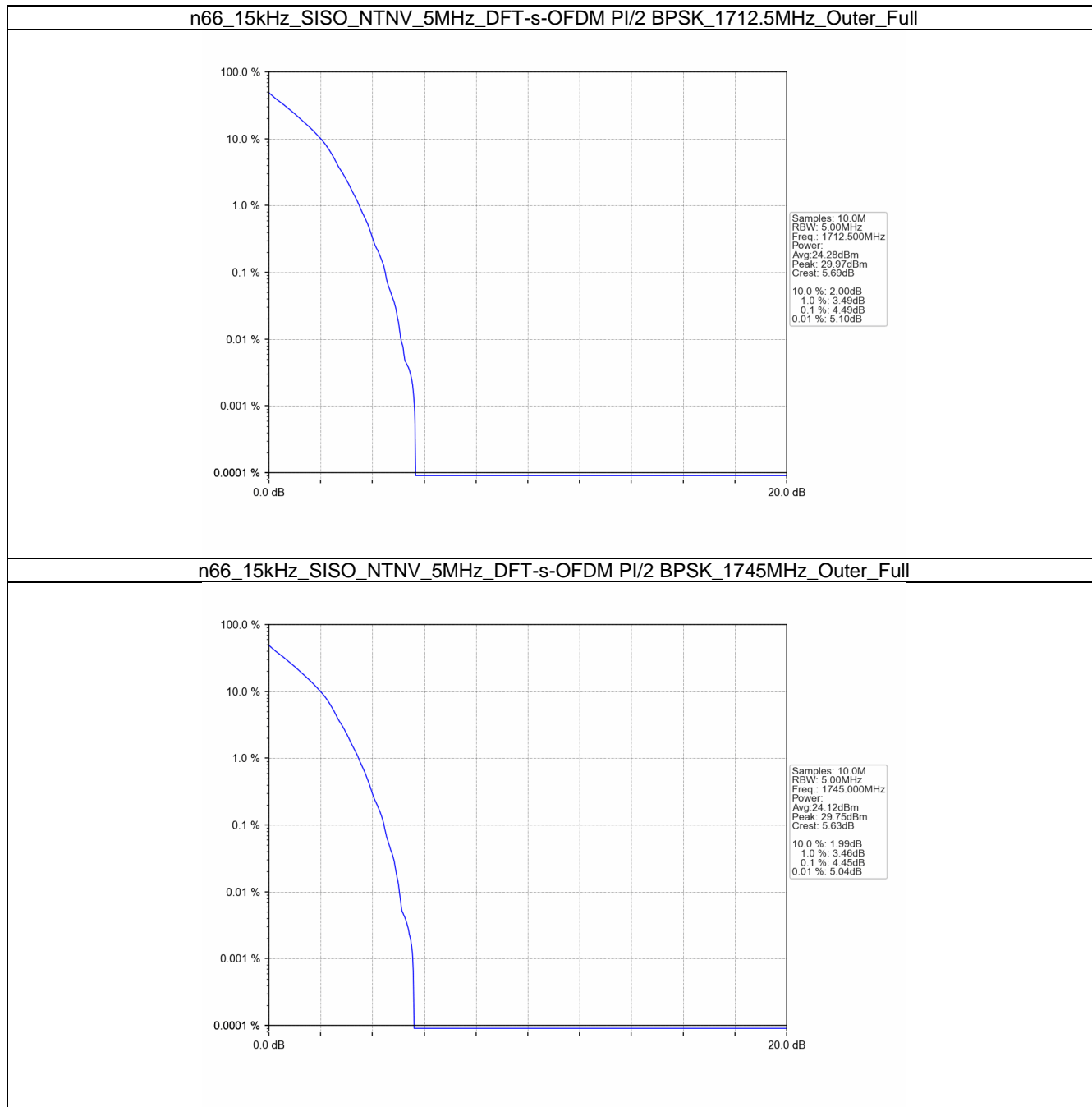


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5.1.2 Test Graph



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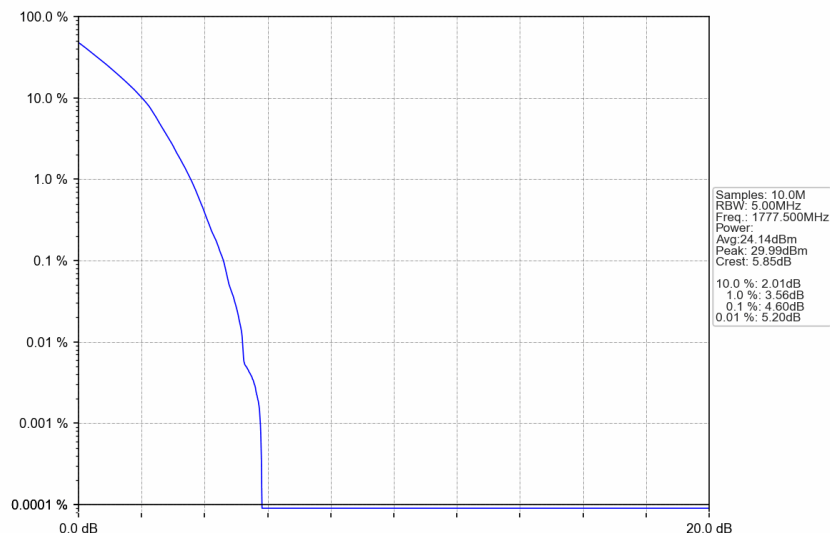
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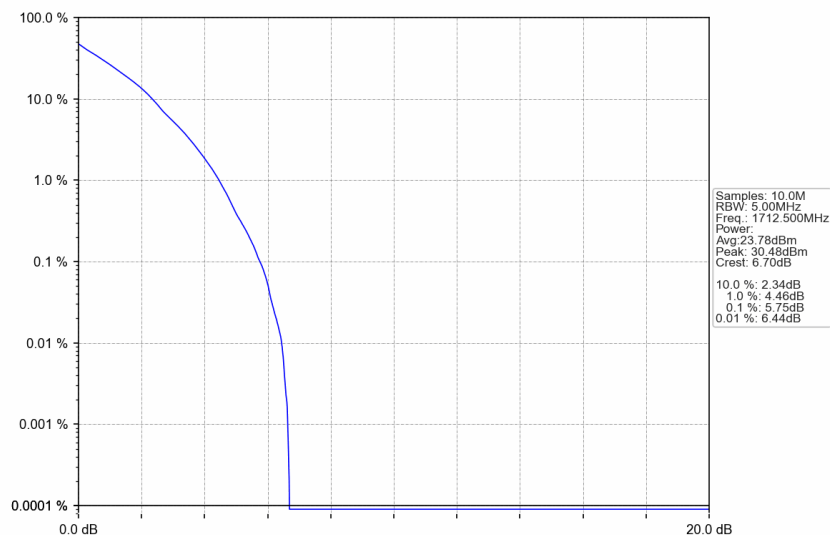
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_1777.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_1712.5MHz\_Outer\_Full

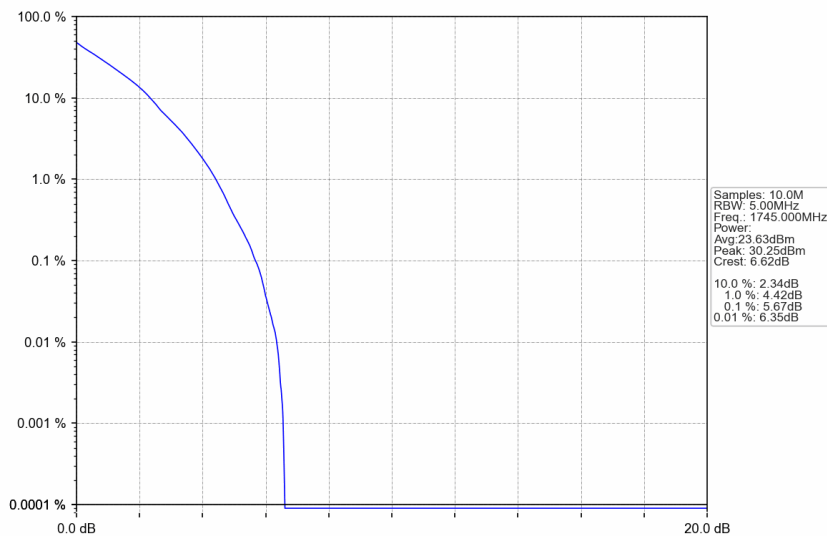


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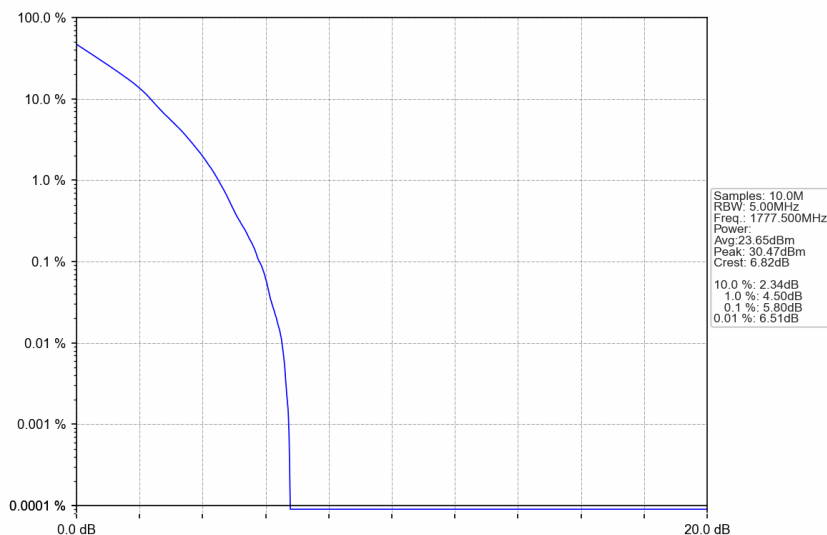
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_1777.5MHz\_Outer\_Full

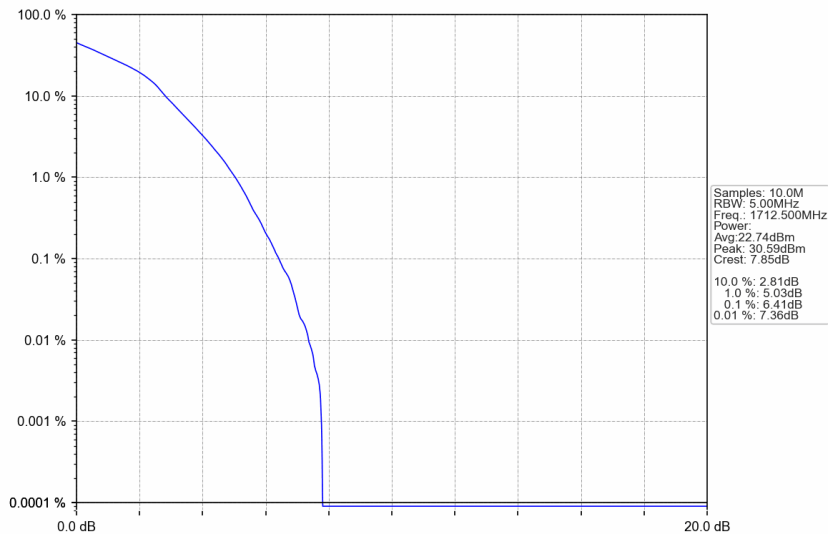


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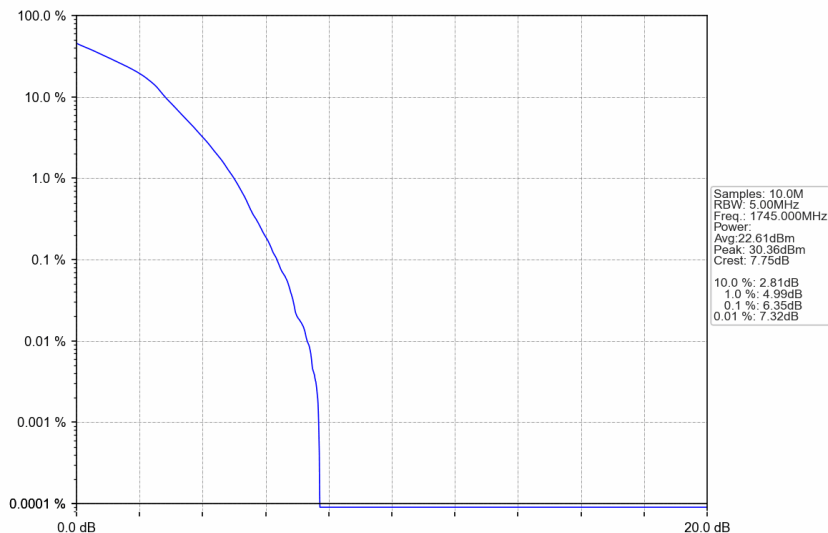
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_1712.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_1745MHz\_Outer\_Full



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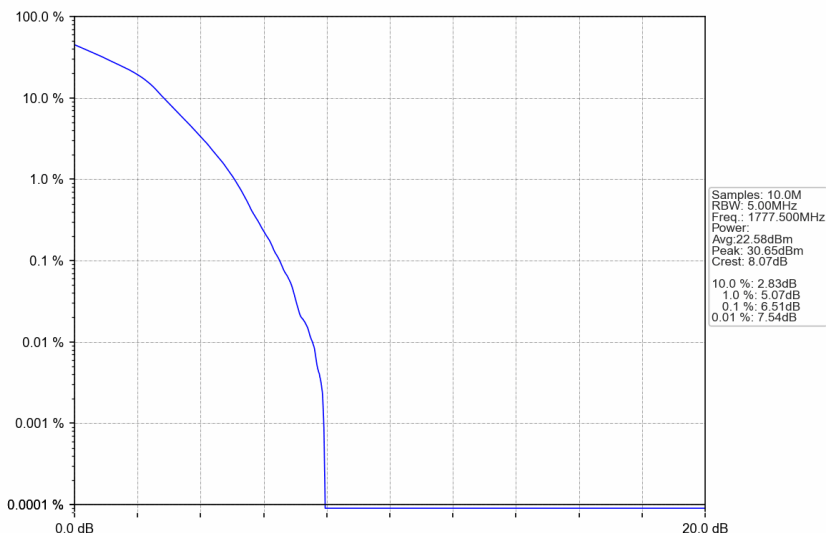
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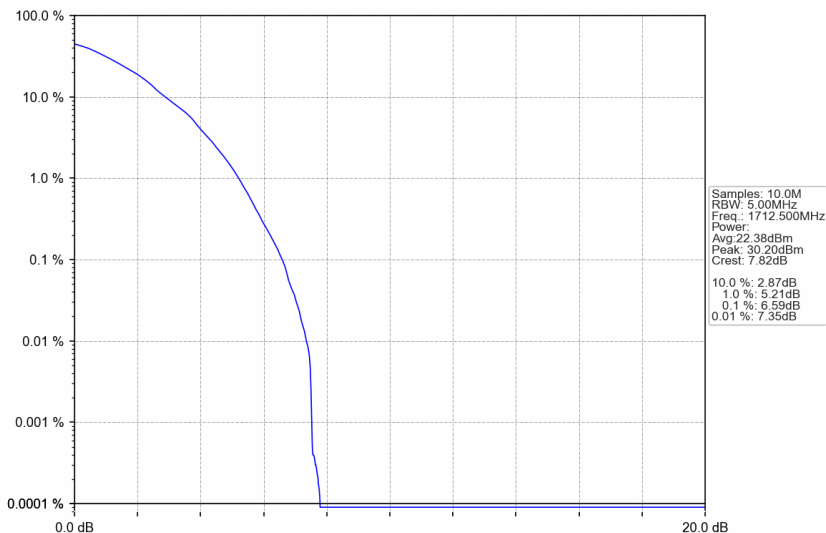
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_1777.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_1712.5MHz\_Outer\_Full

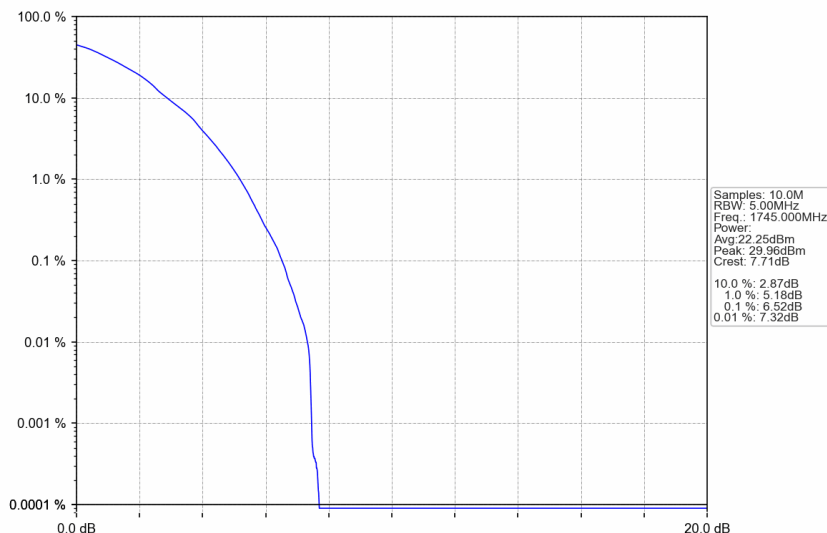


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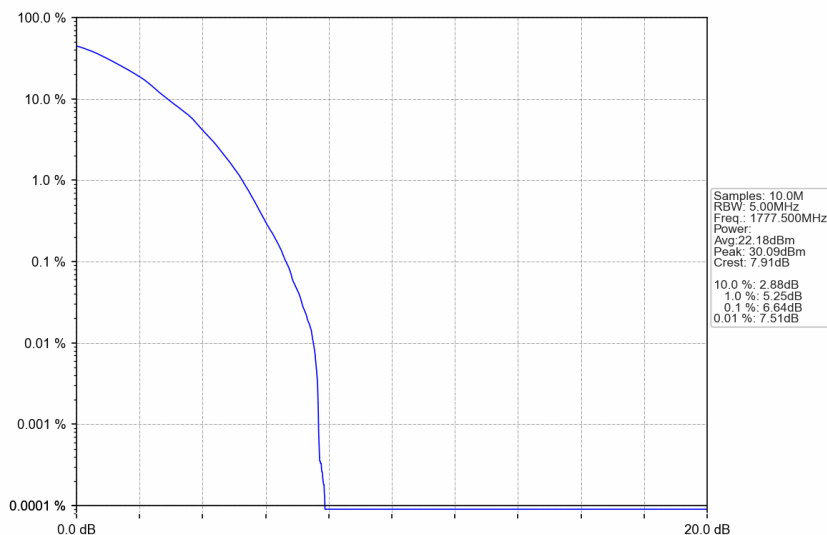
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_1777.5MHz\_Outer\_Full

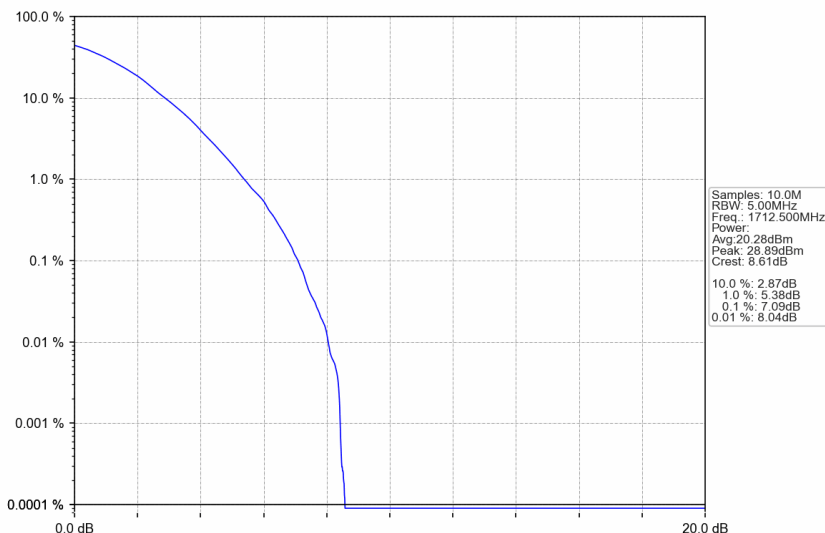


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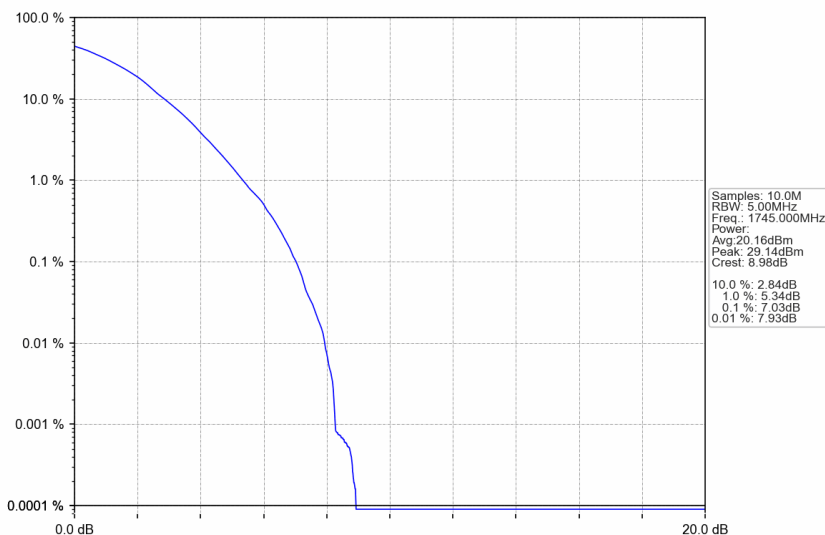
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_1712.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_1745MHz\_Outer\_Full

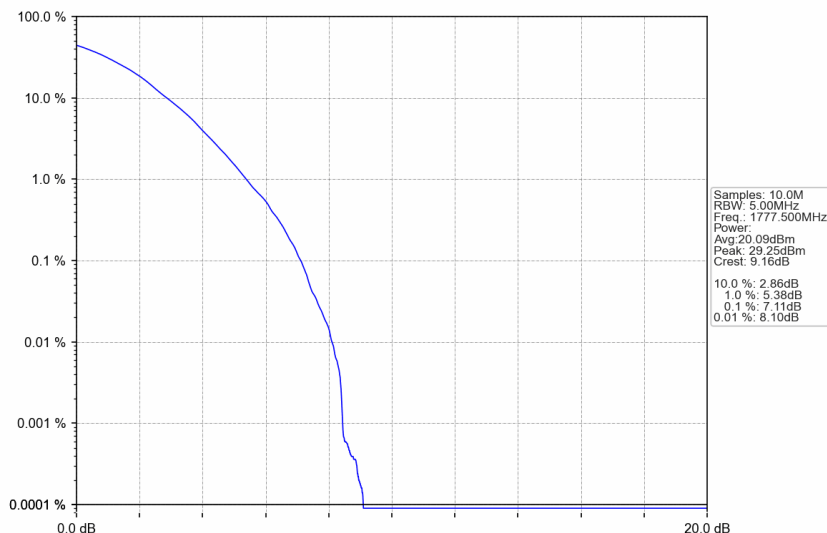


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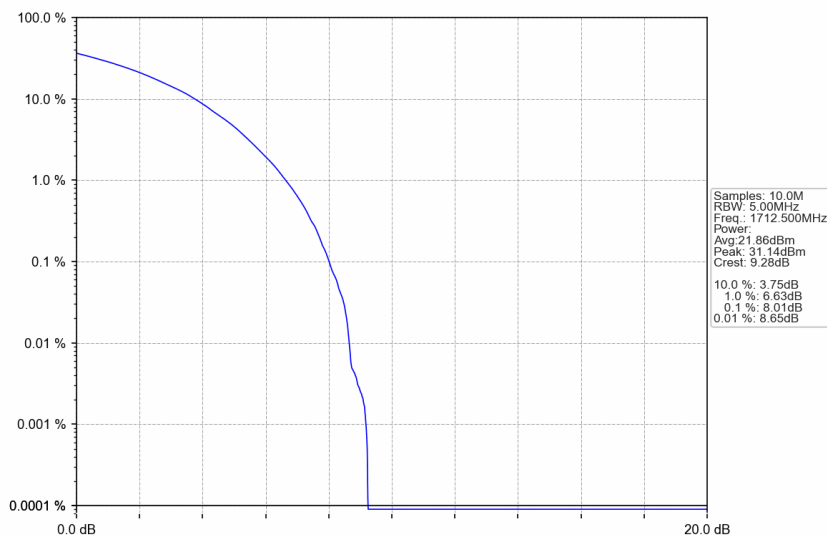
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n66\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_1777.5MHz\_Outer\_Full



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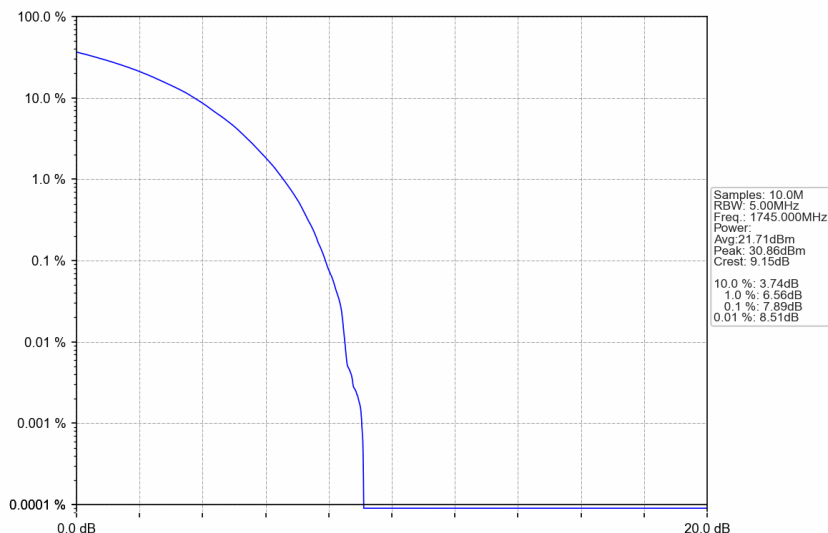
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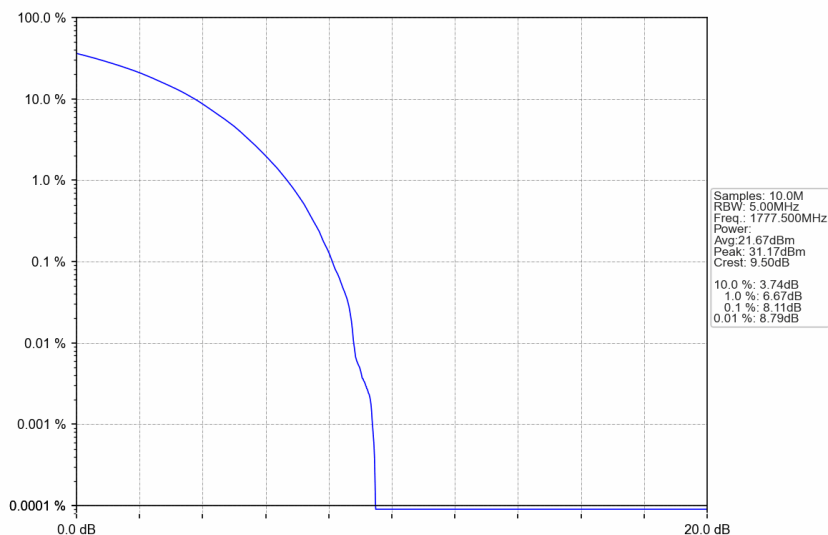
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n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_1745MHz\_Outer\_Full



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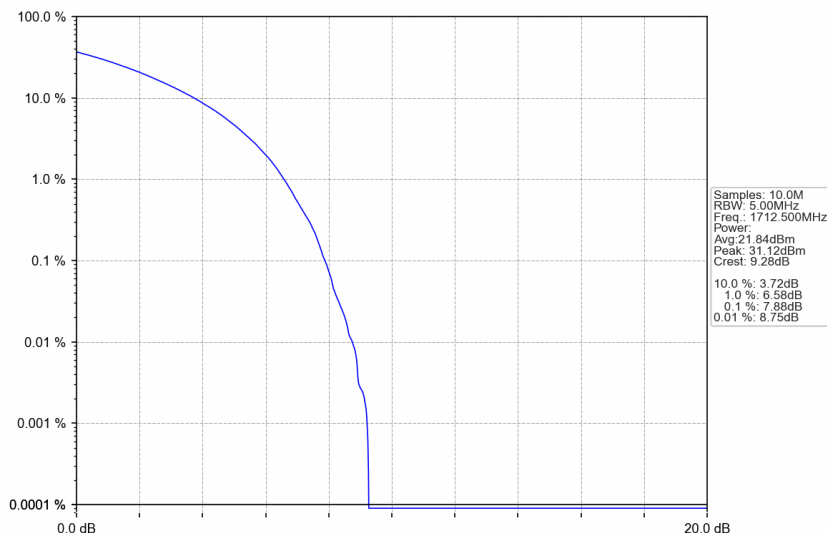


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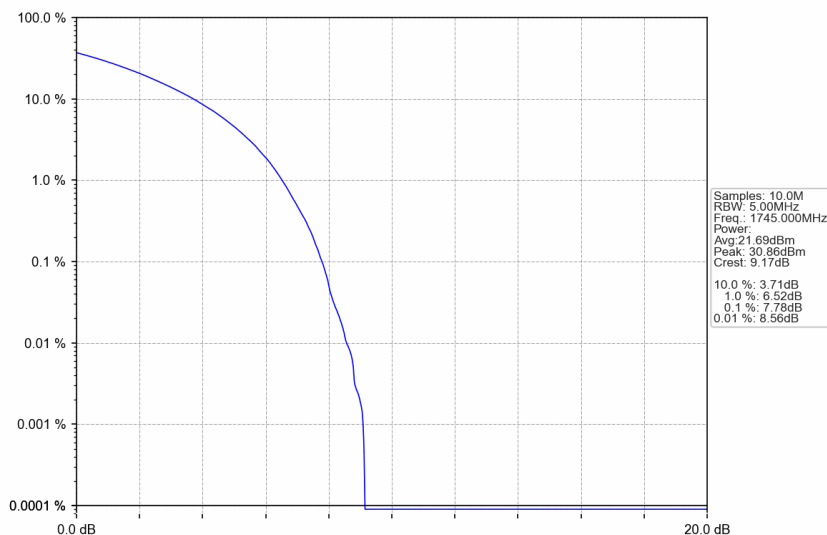
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n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_1712.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_1745MHz\_Outer\_Full



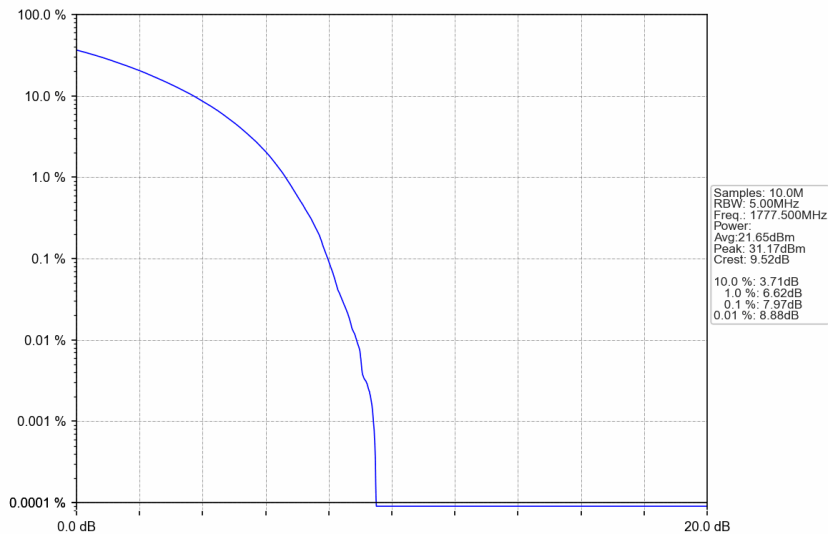
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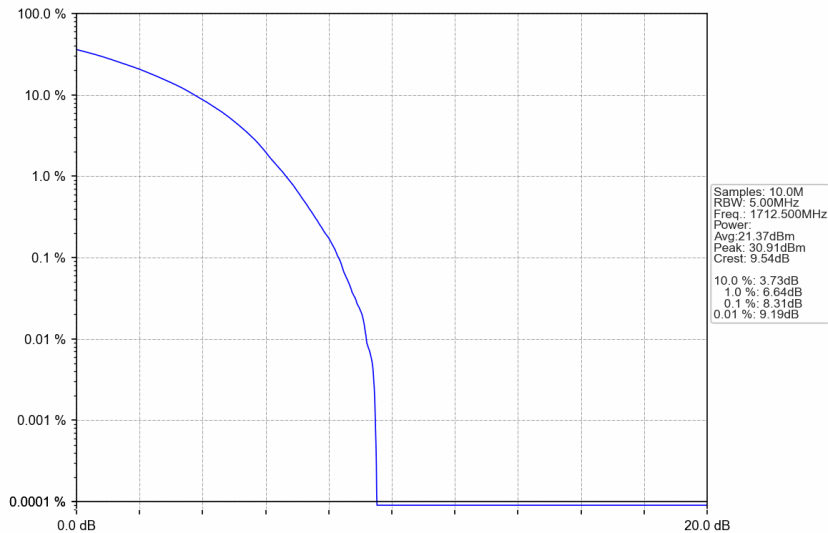
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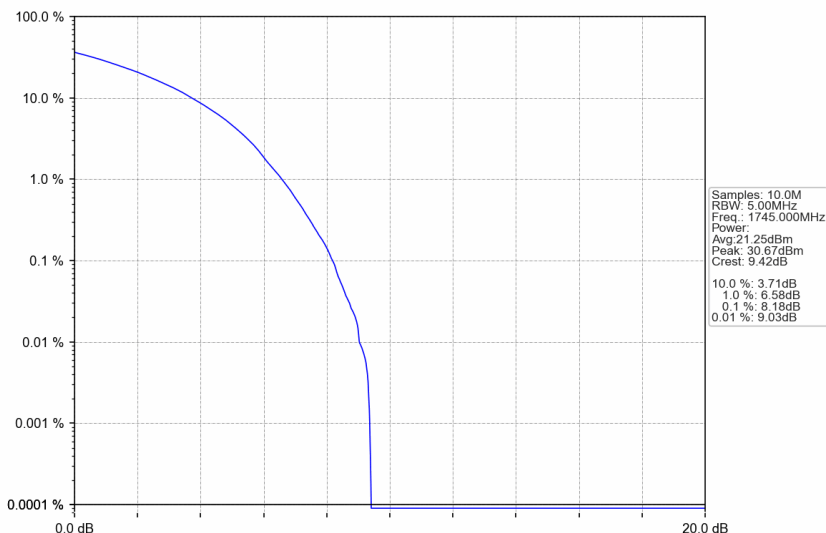
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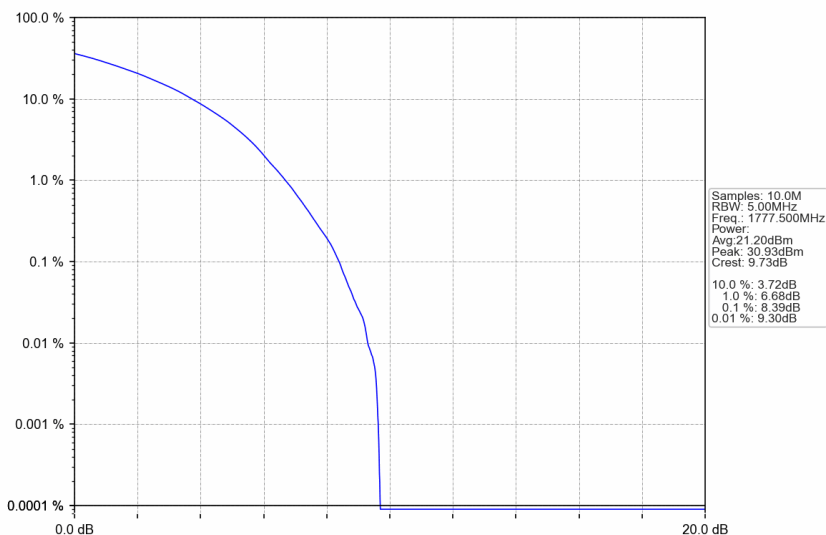
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n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_1777.5MHz\_Outer\_Full



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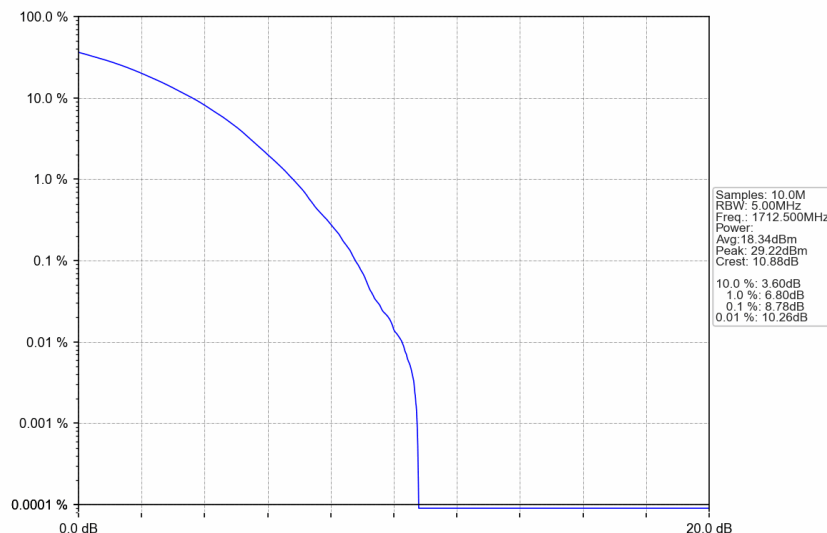
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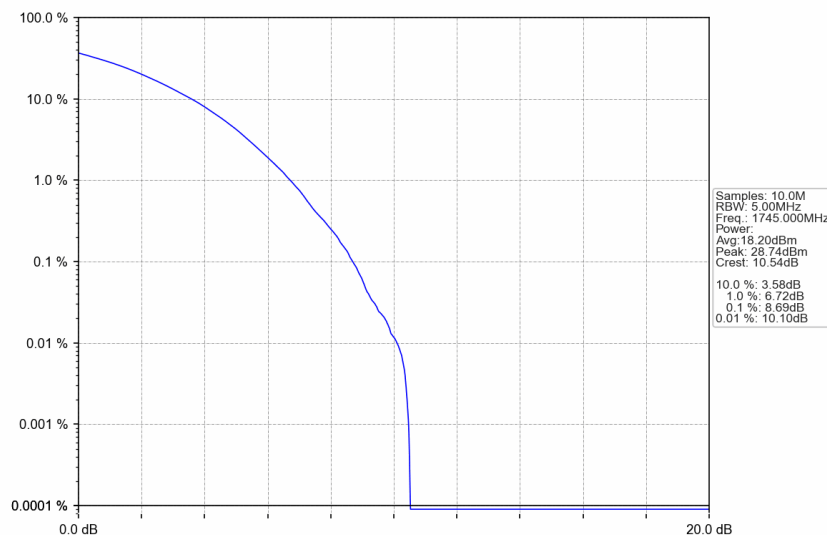
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n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_1712.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_1745MHz\_Outer\_Full



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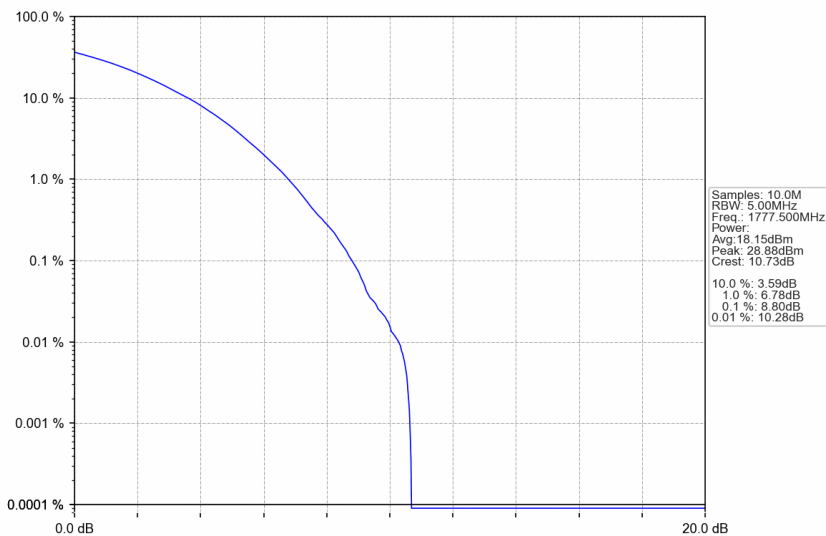
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 352 of 982

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5.2 15k\_SISO\_10MHz\_NTNV

5.2.1 Test Result

5G NR n66 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1715	Outer_Full	4.43	/	/	<=13	Pass
	1745	Outer_Full	4.35	/	/	<=13	Pass
	1775	Outer_Full	4.46	/	/	<=13	Pass
DFT-s-OFDM QPSK	1715	Outer_Full	5.46	/	/	<=13	Pass
	1745	Outer_Full	5.40	/	/	<=13	Pass
	1775	Outer_Full	5.50	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1715	Outer_Full	6.33	/	/	<=13	Pass
	1745	Outer_Full	6.27	/	/	<=13	Pass
	1775	Outer_Full	6.36	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1715	Outer_Full	6.55	/	/	<=13	Pass
	1745	Outer_Full	6.46	/	/	<=13	Pass
	1775	Outer_Full	6.55	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1715	Outer_Full	6.76	/	/	<=13	Pass
	1745	Outer_Full	6.71	/	/	<=13	Pass
	1775	Outer_Full	6.77	/	/	<=13	Pass
CP-OFDM QPSK	1715	Outer_Full	8.05	/	/	<=13	Pass
	1745	Outer_Full	7.96	/	/	<=13	Pass
	1775	Outer_Full	8.11	/	/	<=13	Pass
CP-OFDM 16 QAM	1715	Outer_Full	8.22	/	/	<=13	Pass
	1745	Outer_Full	8.14	/	/	<=13	Pass
	1775	Outer_Full	8.30	/	/	<=13	Pass
CP-OFDM 64 QAM	1715	Outer_Full	8.30	/	/	<=13	Pass
	1745	Outer_Full	8.22	/	/	<=13	Pass
	1775	Outer_Full	8.34	/	/	<=13	Pass
CP-OFDM 256 QAM	1715	Outer_Full	8.70	/	/	<=13	Pass
	1745	Outer_Full	8.66	/	/	<=13	Pass
	1775	Outer_Full	8.72	/	/	<=13	Pass

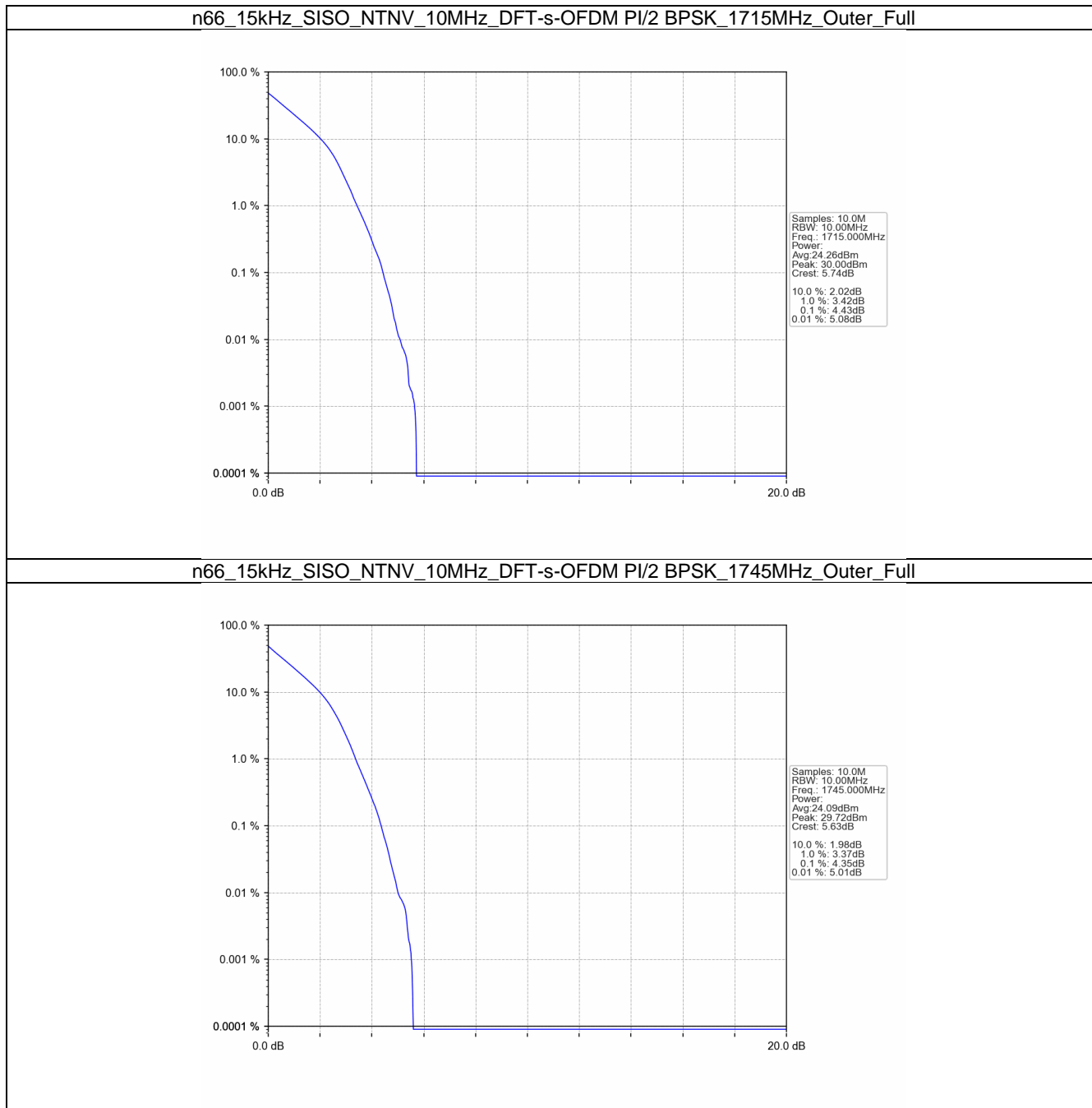


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5.2.2 Test Graph

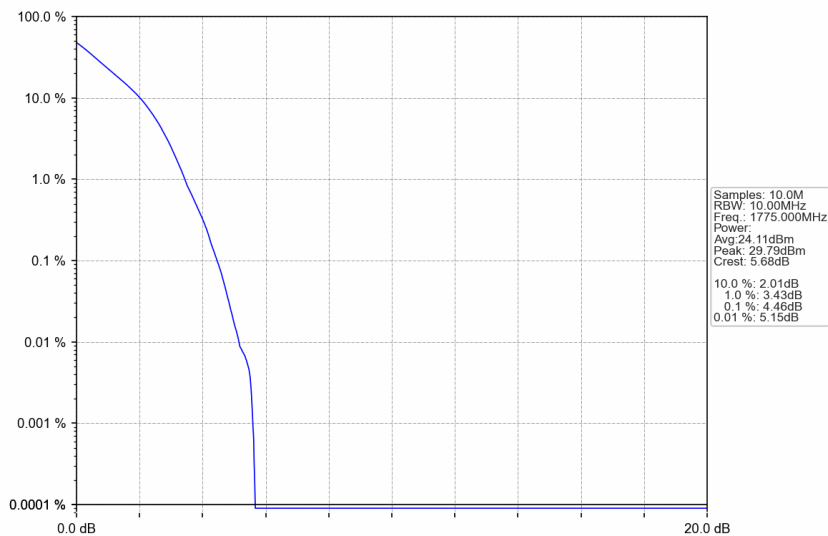


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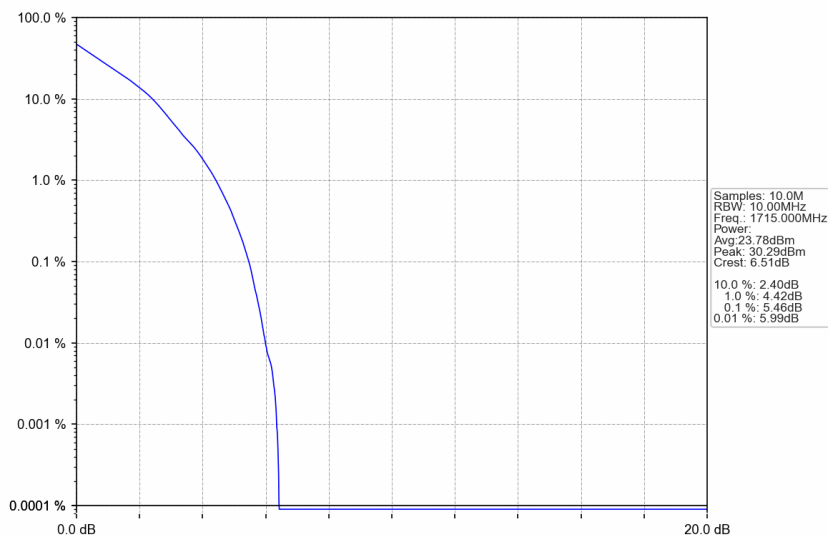
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n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_1775MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_1715MHz\_Outer\_Full

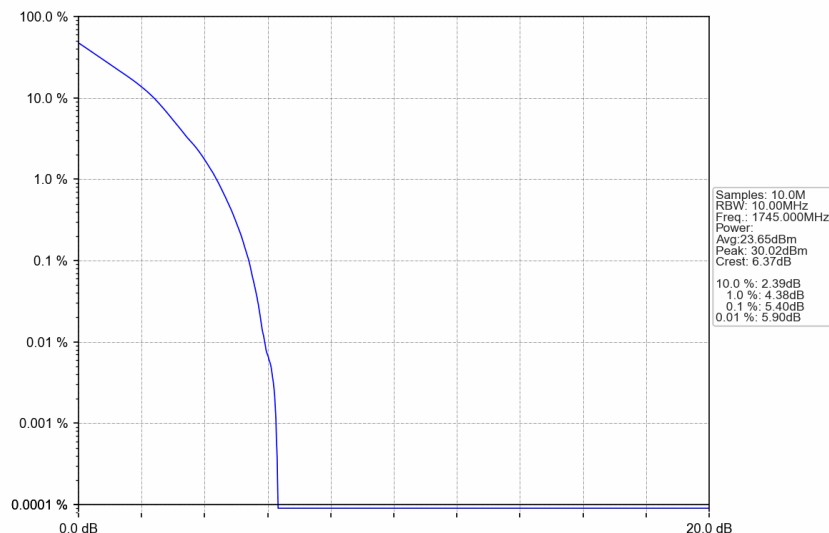


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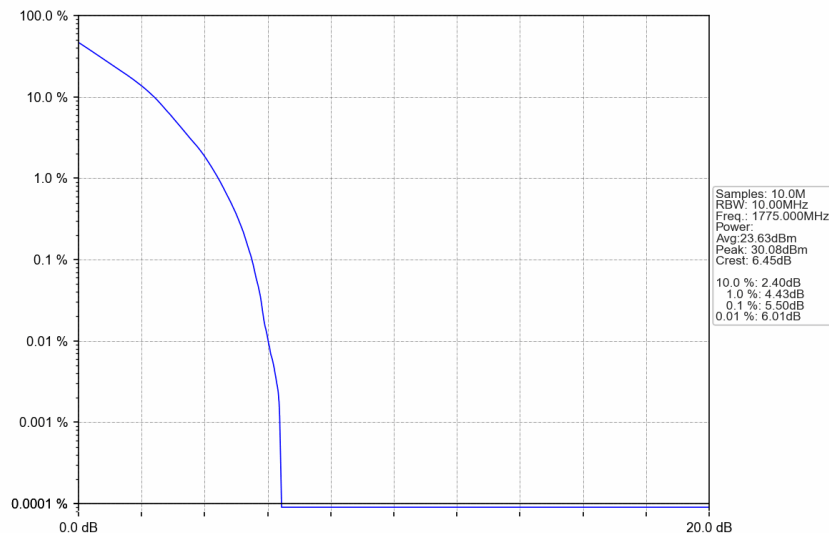
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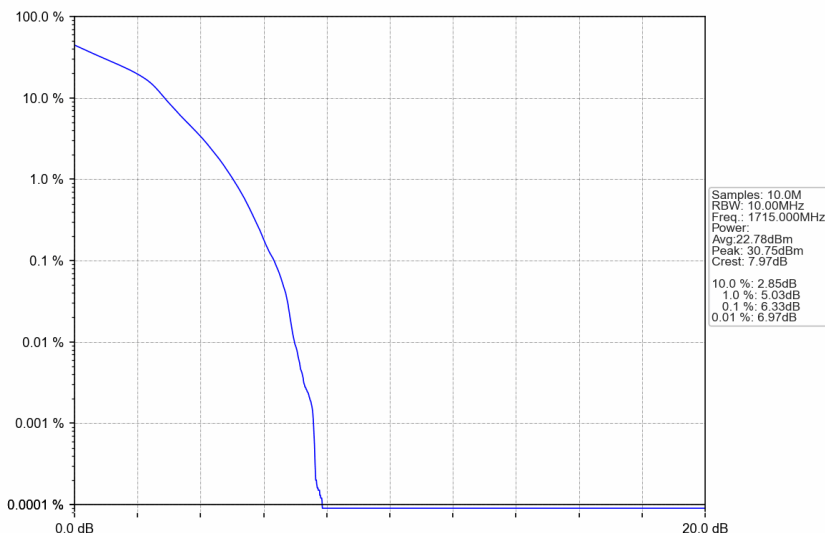


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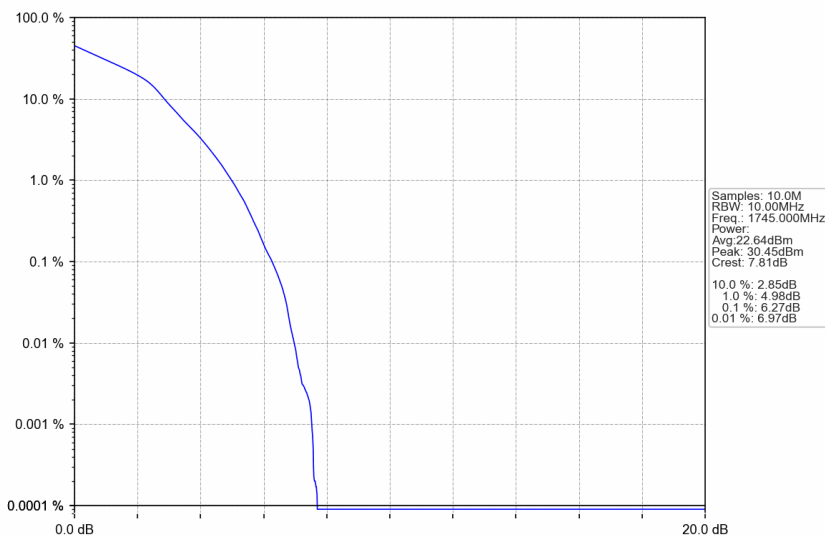
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n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_1745MHz\_Outer\_Full



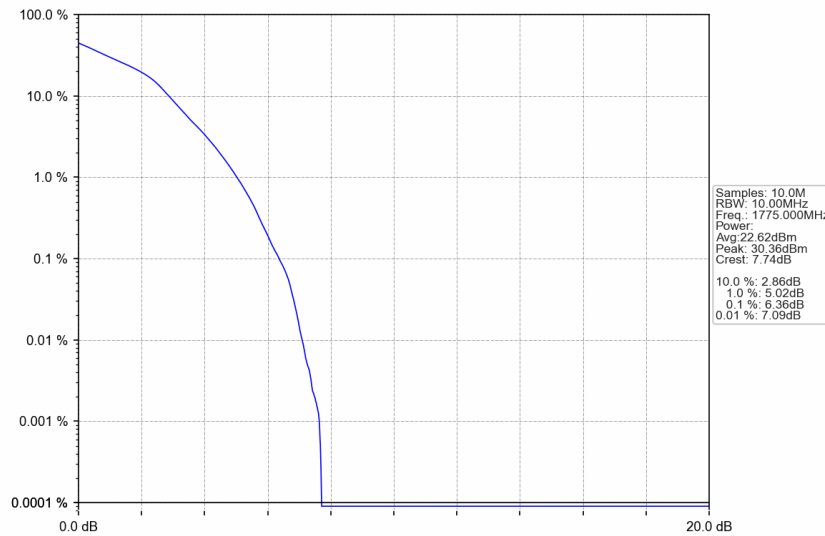
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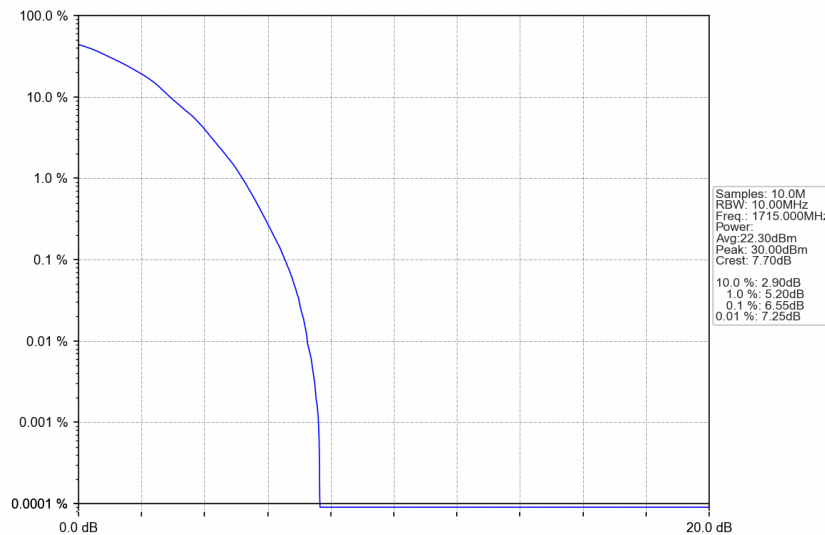
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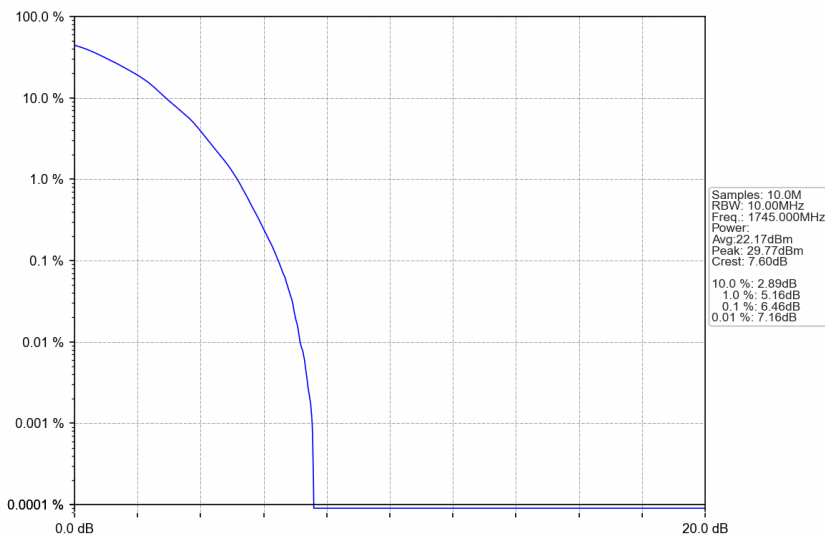


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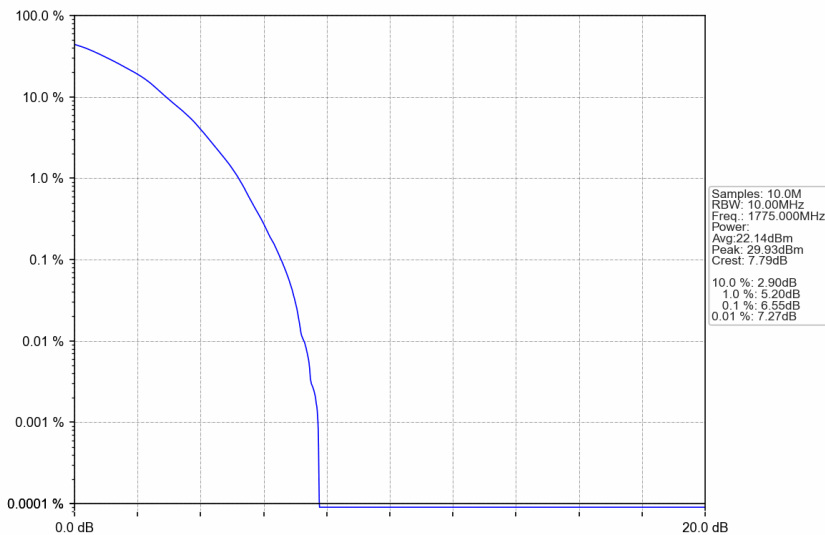
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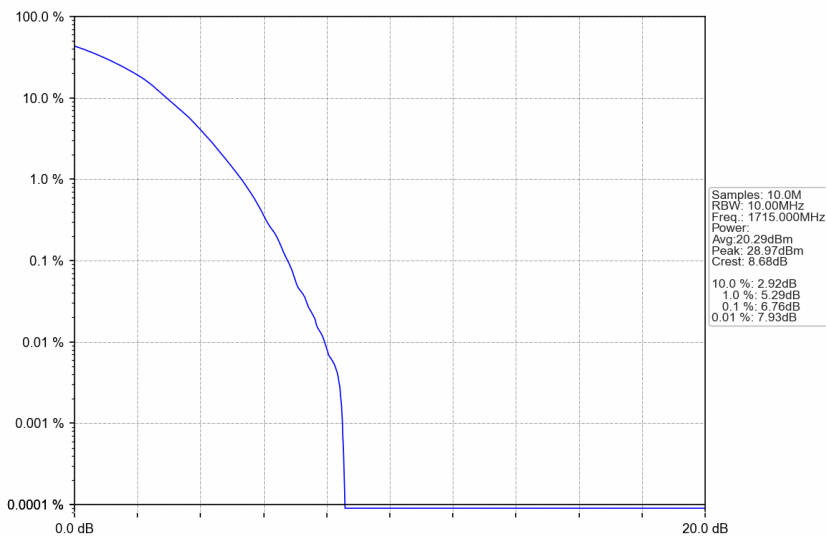


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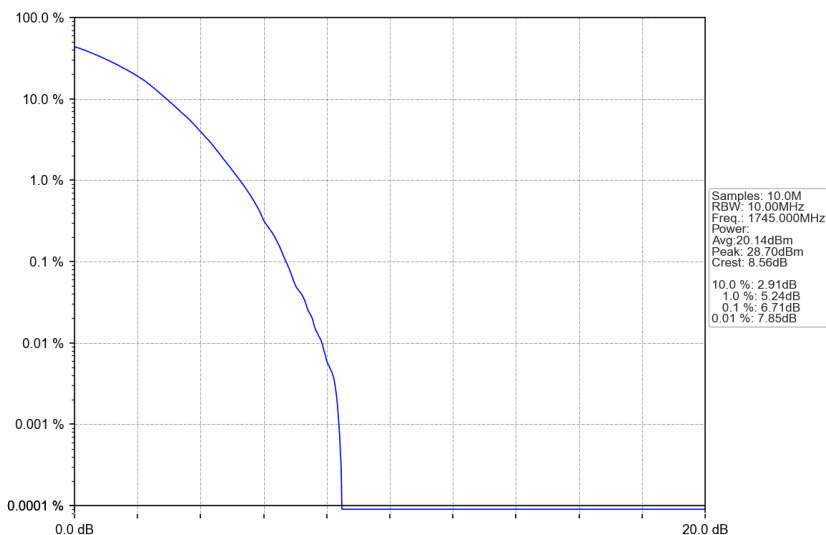
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n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_1715MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_1745MHz\_Outer\_Full



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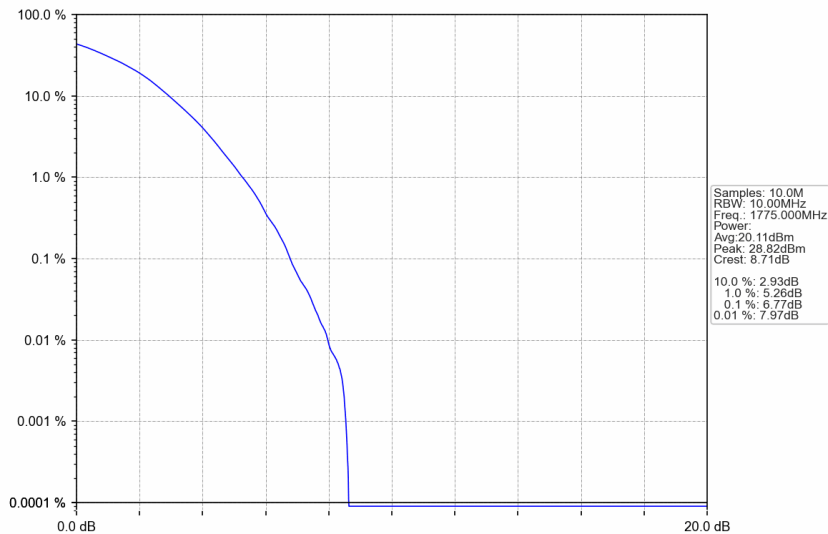
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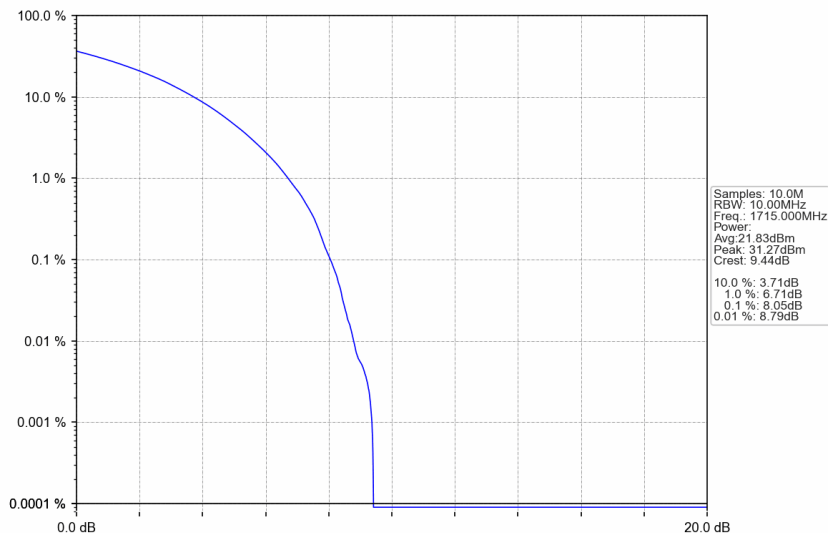
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n66\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 256 QAM\_1775MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_1715MHz\_Outer\_Full



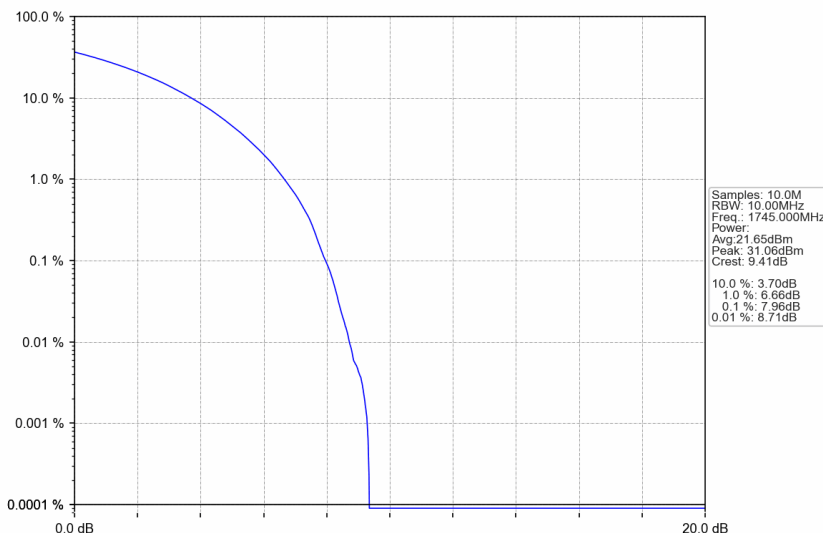
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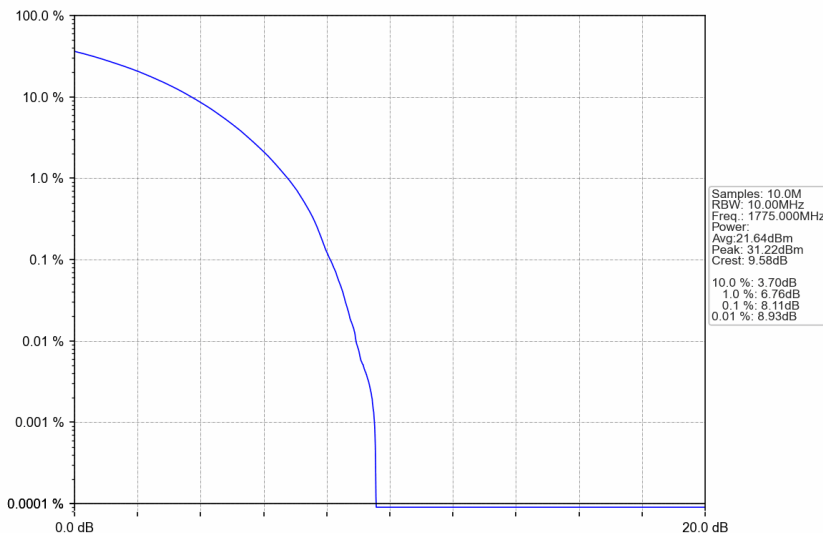
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n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM QPSK\_1745MHz\_Outer\_Full



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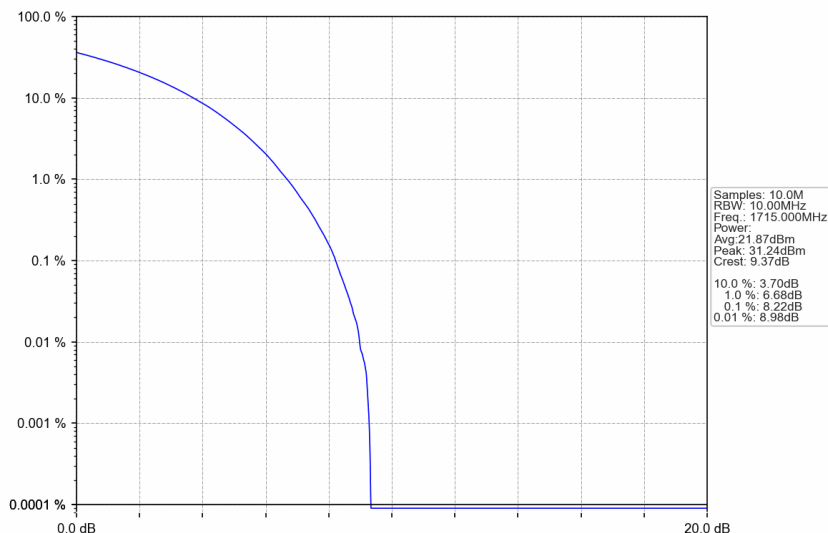


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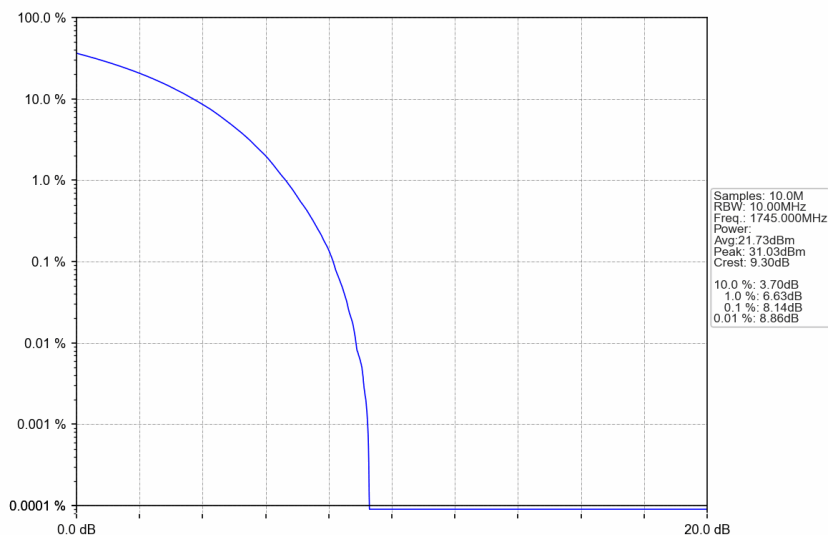
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n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_1715MHz\_Outer\_Full



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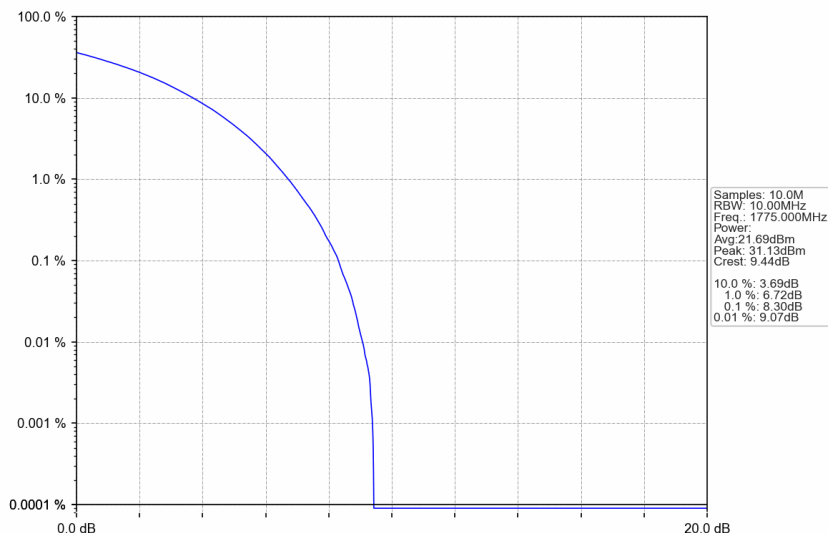
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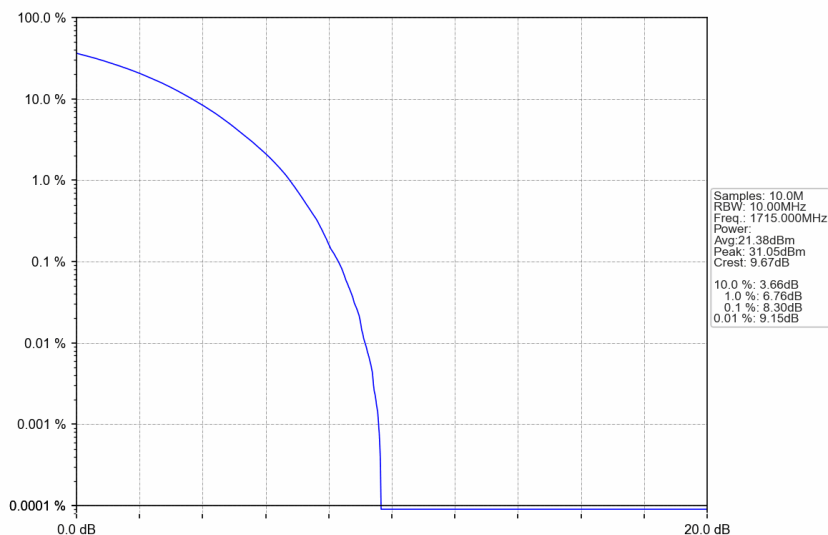
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n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_1775MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1715MHz\_Outer\_Full



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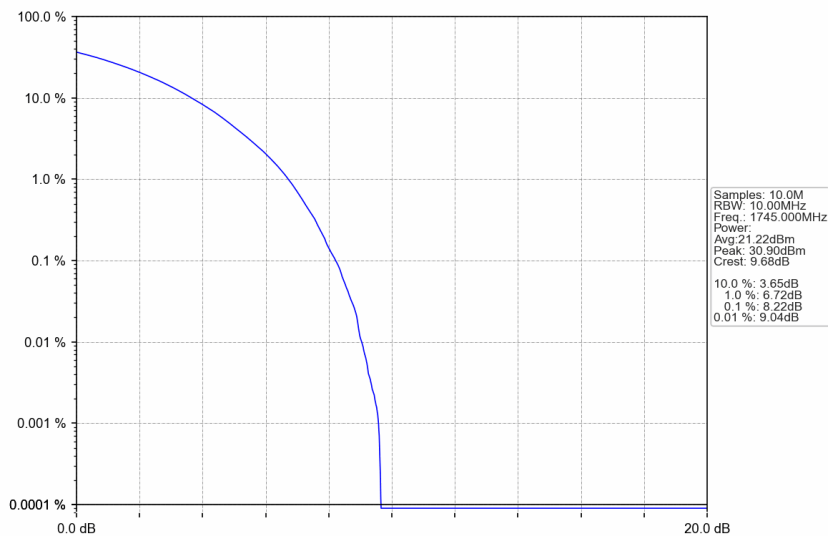


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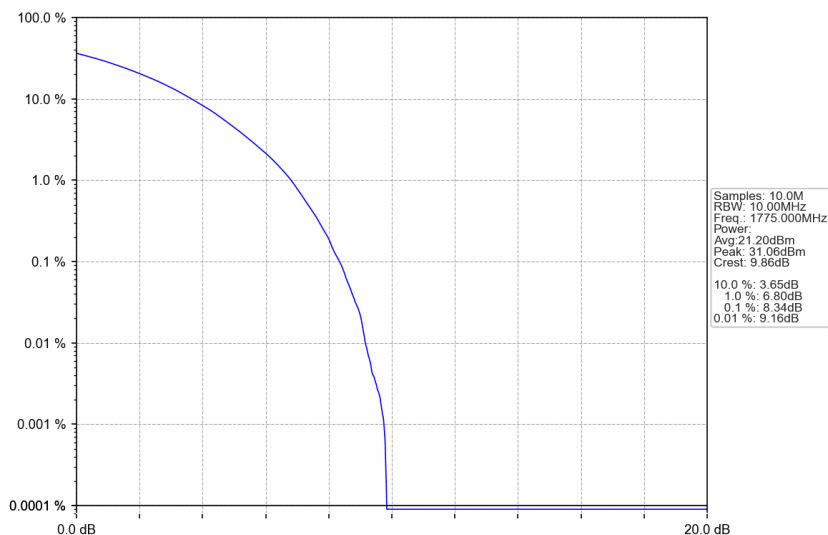
Rev.: 01

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n66\_15kHz\_SISO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_1745MHz\_Outer\_Full



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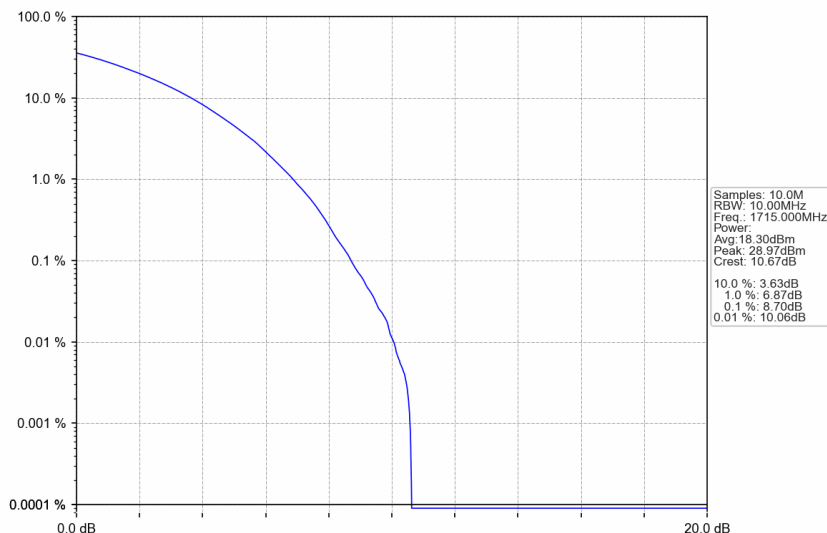
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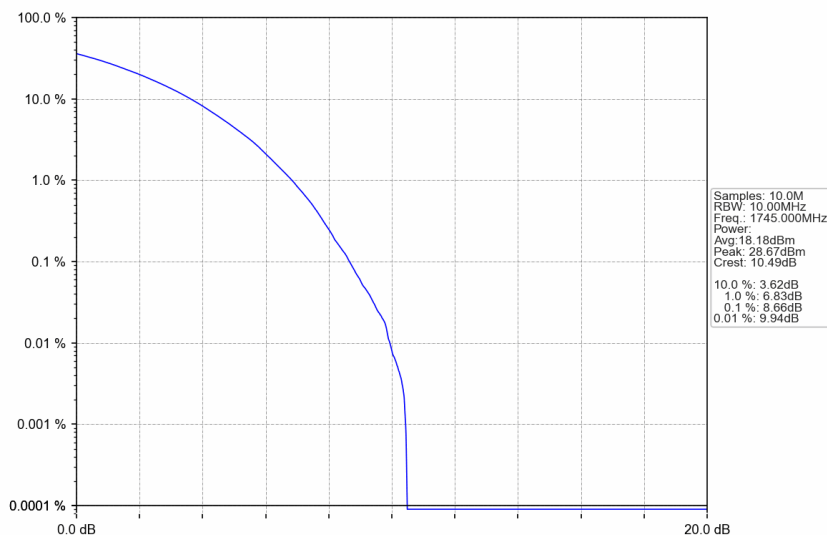
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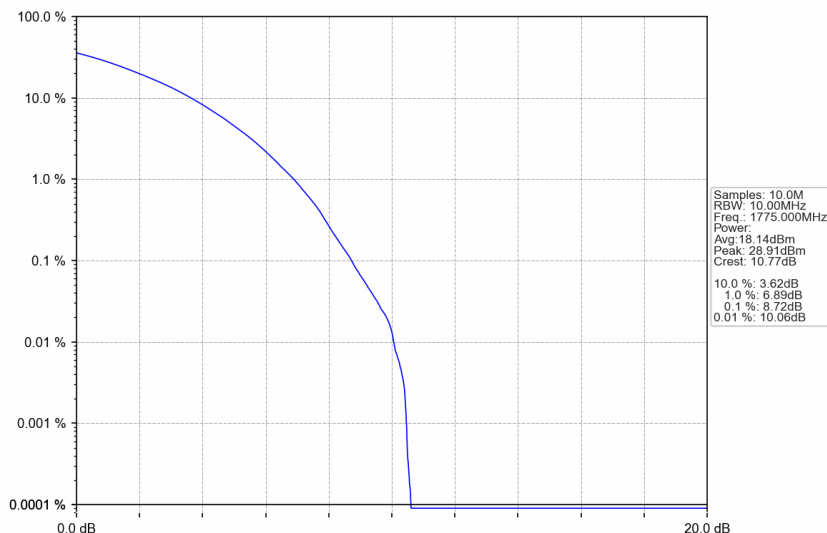


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5.3 15k\_SISO\_15MHz\_NTNV

5.3.1 Test Result

5G NR n66 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1717.5	Outer_Full	4.45	/	/	<=13	Pass
	1745	Outer_Full	4.44	/	/	<=13	Pass
	1772.5	Outer_Full	4.50	/	/	<=13	Pass
DFT-s-OFDM QPSK	1717.5	Outer_Full	5.44	/	/	<=13	Pass
	1745	Outer_Full	5.40	/	/	<=13	Pass
	1772.5	Outer_Full	5.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1717.5	Outer_Full	6.25	/	/	<=13	Pass
	1745	Outer_Full	6.21	/	/	<=13	Pass
	1772.5	Outer_Full	6.28	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1717.5	Outer_Full	6.54	/	/	<=13	Pass
	1745	Outer_Full	6.49	/	/	<=13	Pass
	1772.5	Outer_Full	6.57	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1717.5	Outer_Full	6.72	/	/	<=13	Pass
	1745	Outer_Full	6.67	/	/	<=13	Pass
	1772.5	Outer_Full	6.71	/	/	<=13	Pass
CP-OFDM QPSK	1717.5	Outer_Full	7.99	/	/	<=13	Pass
	1745	Outer_Full	7.94	/	/	<=13	Pass
	1772.5	Outer_Full	8.05	/	/	<=13	Pass
CP-OFDM 16 QAM	1717.5	Outer_Full	8.06	/	/	<=13	Pass
	1745	Outer_Full	8.02	/	/	<=13	Pass
	1772.5	Outer_Full	8.16	/	/	<=13	Pass
CP-OFDM 64 QAM	1717.5	Outer_Full	8.05	/	/	<=13	Pass
	1745	Outer_Full	8.02	/	/	<=13	Pass
	1772.5	Outer_Full	8.12	/	/	<=13	Pass
CP-OFDM 256 QAM	1717.5	Outer_Full	8.64	/	/	<=13	Pass
	1745	Outer_Full	8.60	/	/	<=13	Pass
	1772.5	Outer_Full	8.67	/	/	<=13	Pass

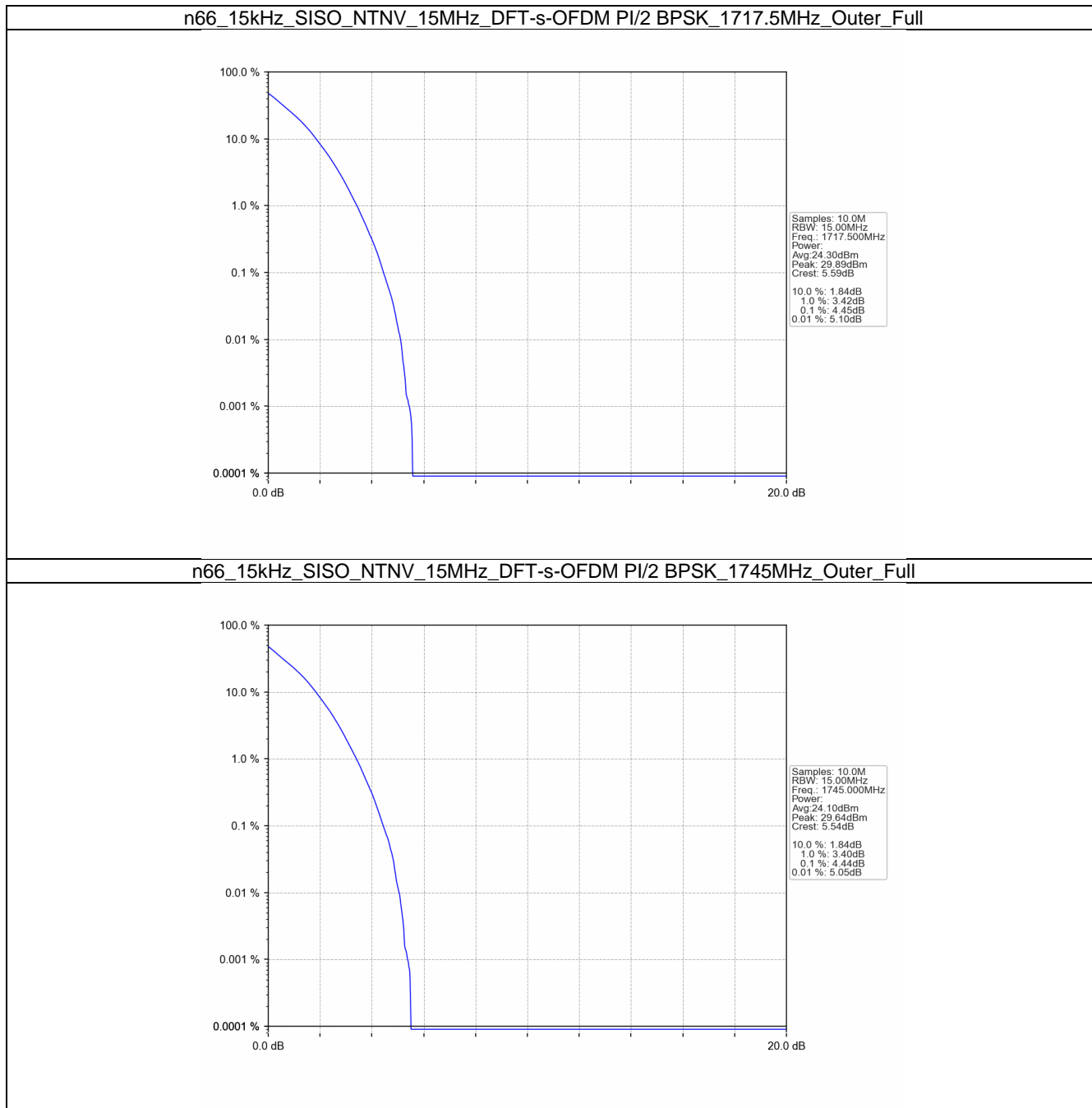


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5.3.2 Test Graph

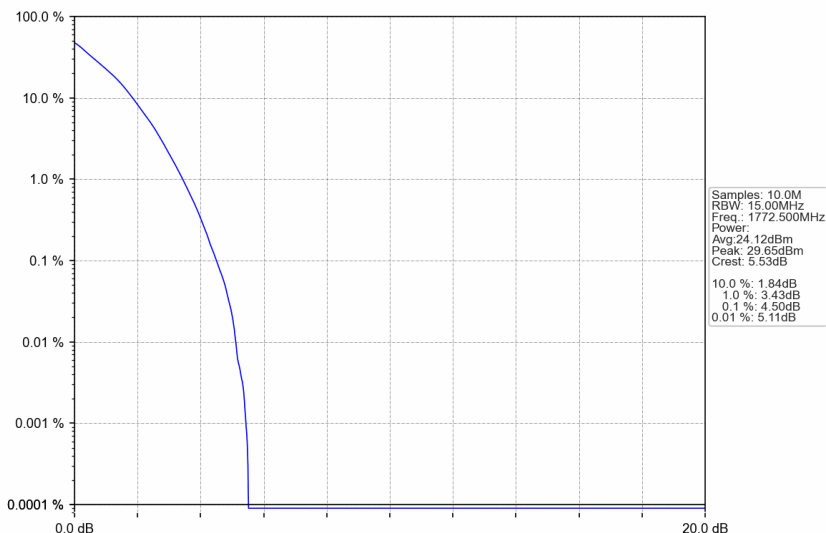


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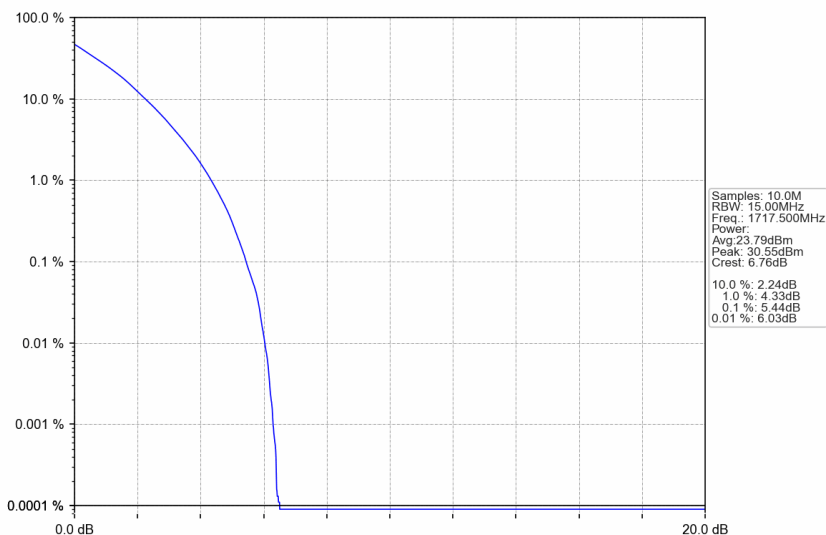
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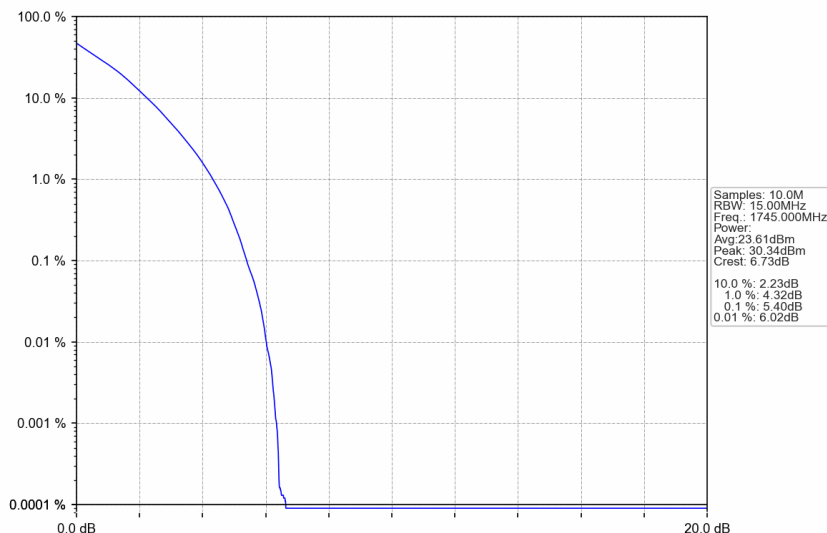


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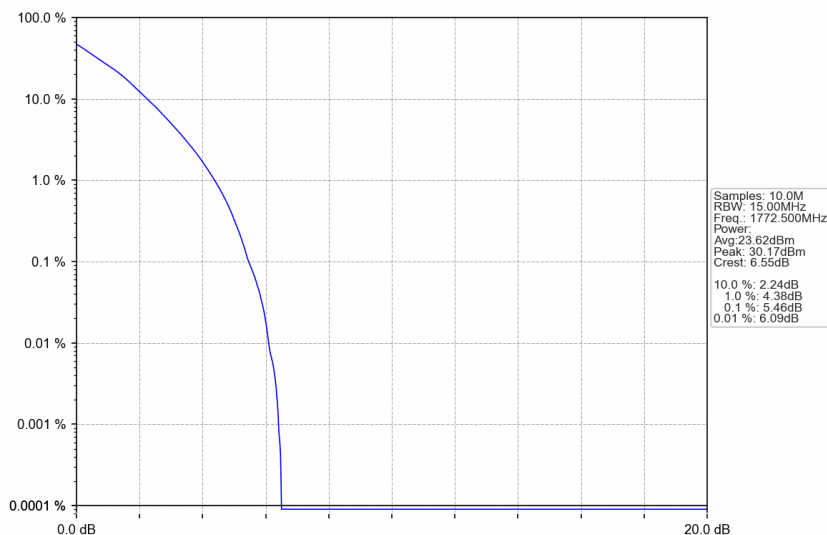
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_1772.5MHz\_Outer\_Full

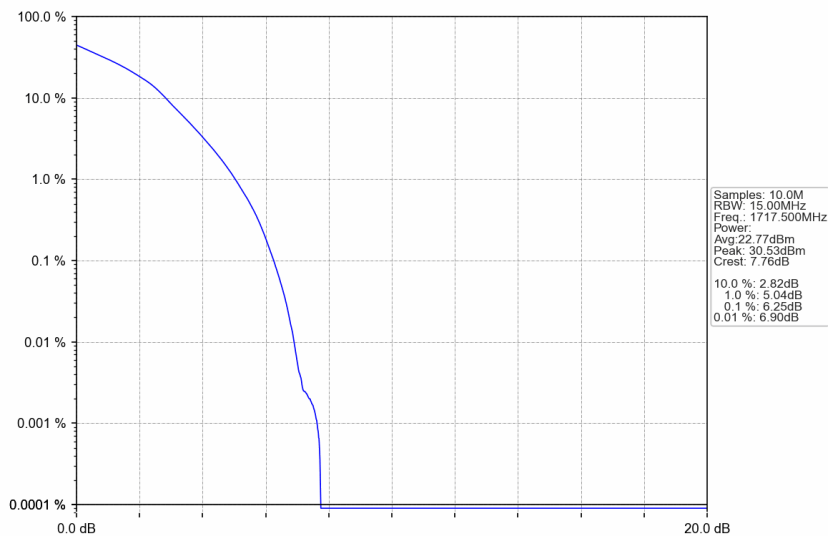


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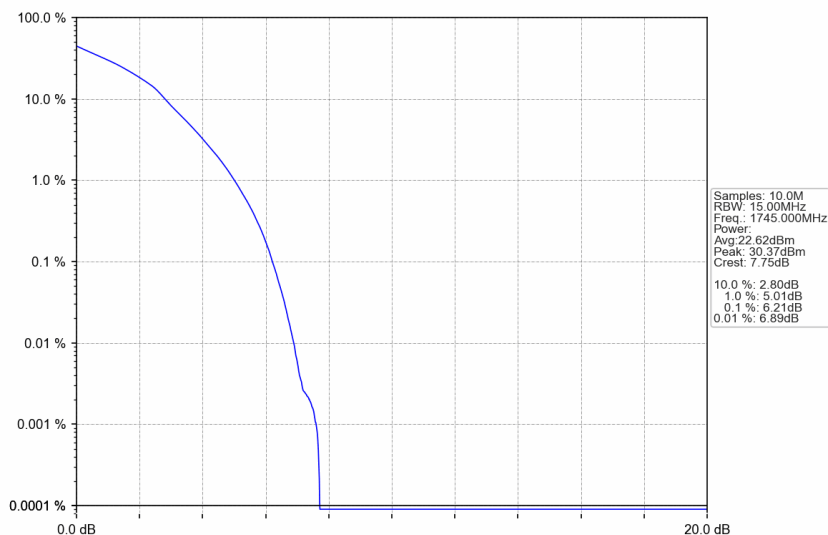
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_1717.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_1745MHz\_Outer\_Full

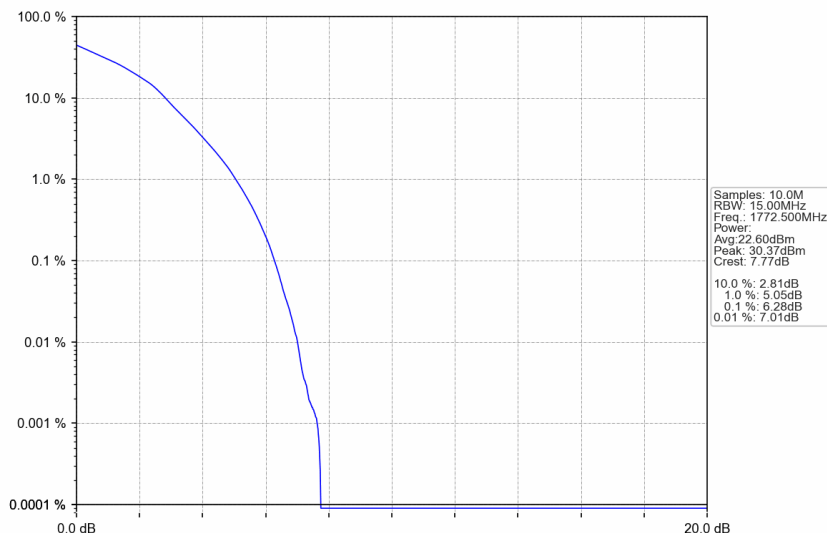


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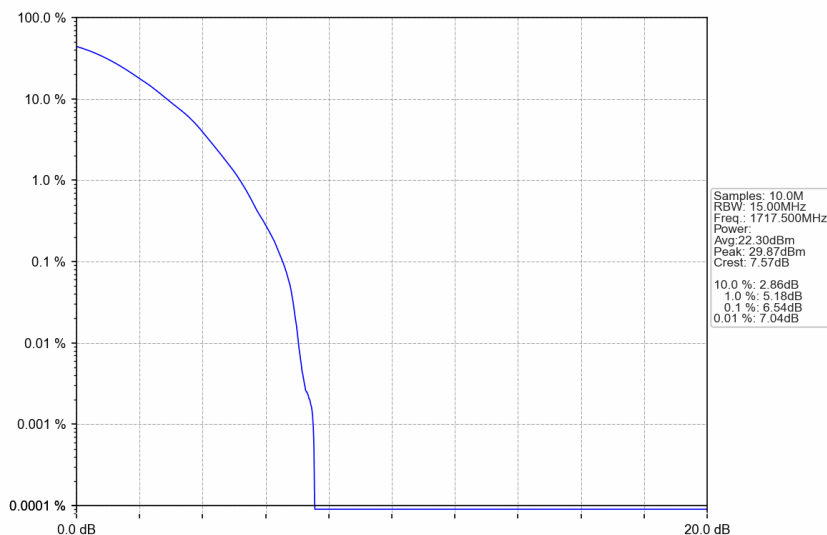
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_1772.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_1717.5MHz\_Outer\_Full



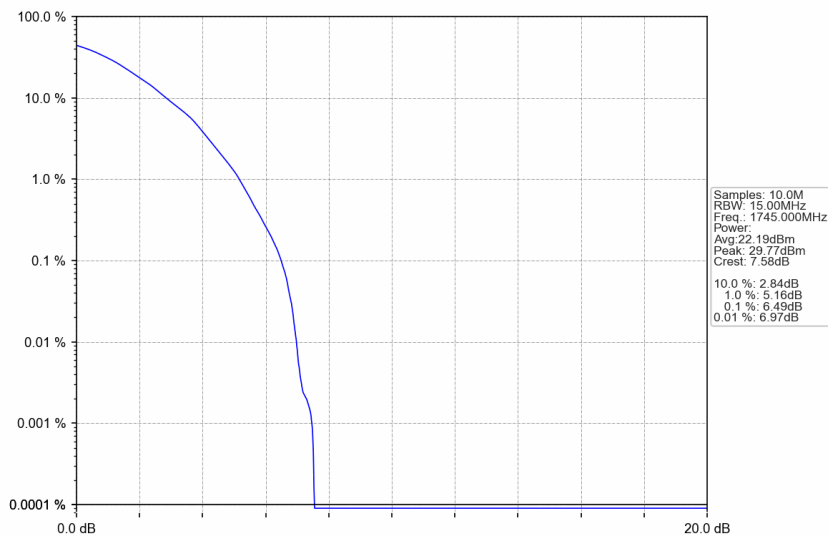
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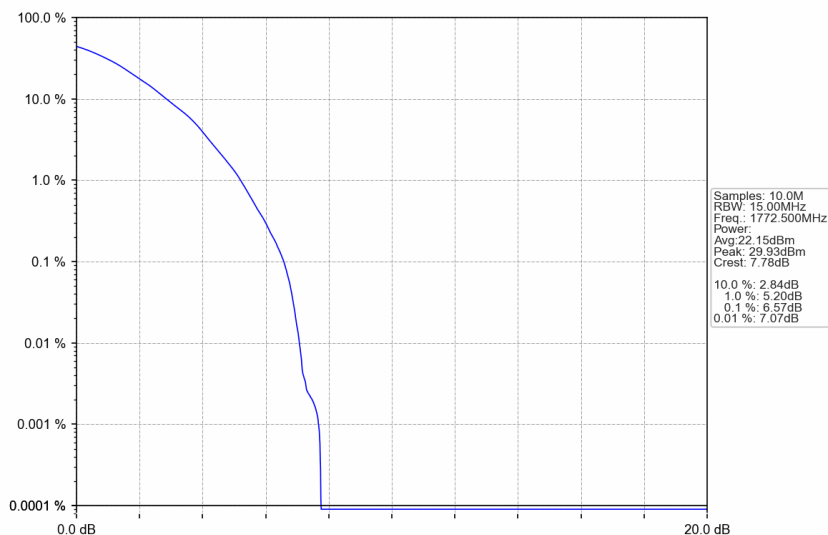
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 64 QAM\_1772.5MHz\_Outer\_Full



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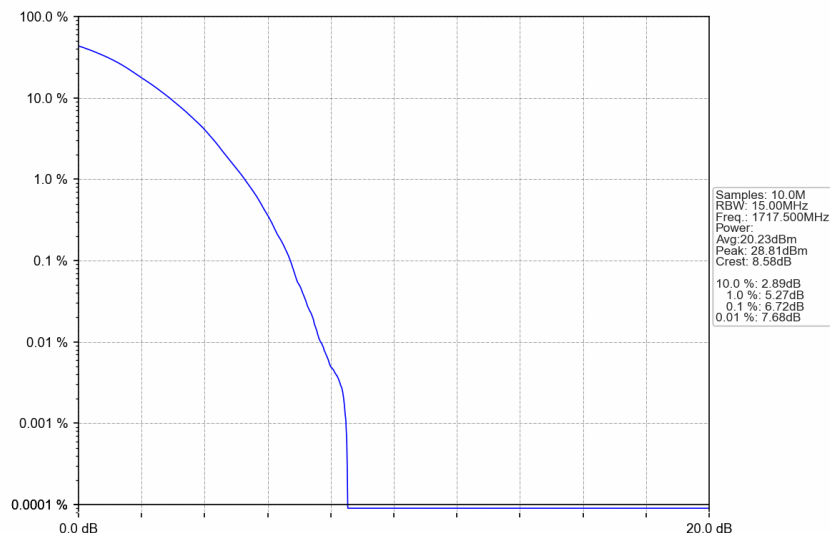
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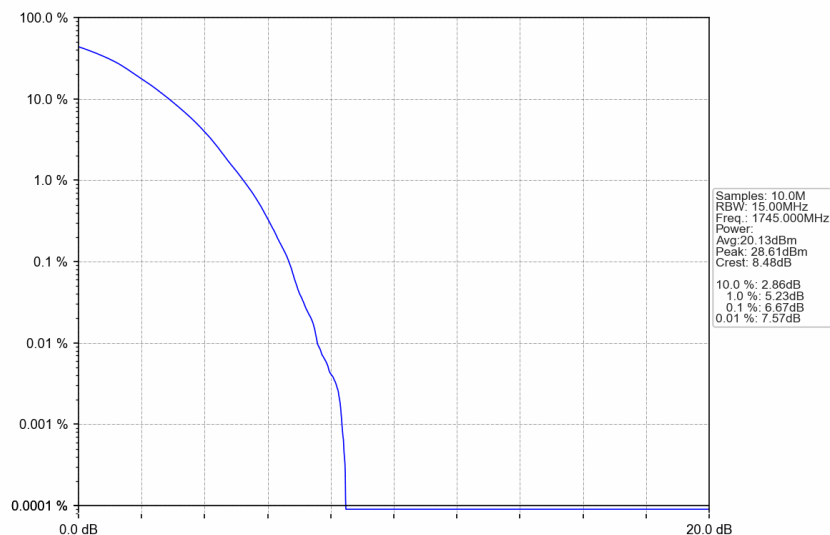
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1717.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1745MHz\_Outer\_Full



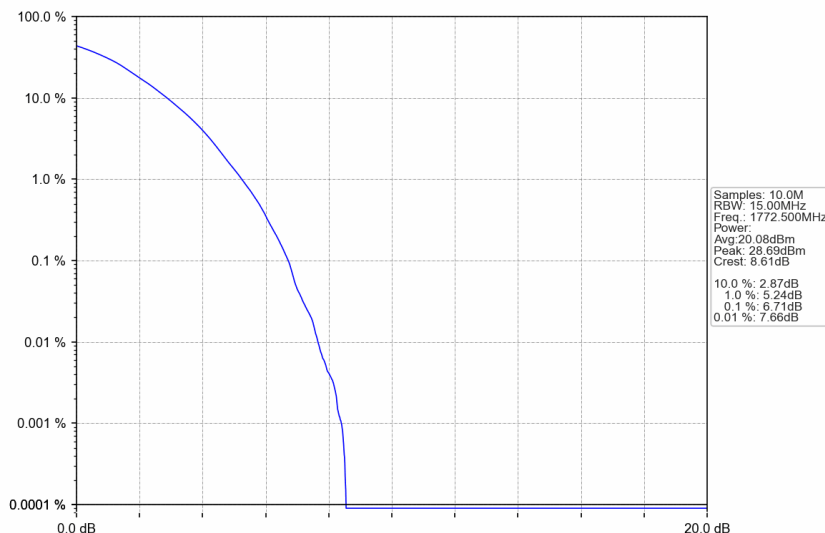
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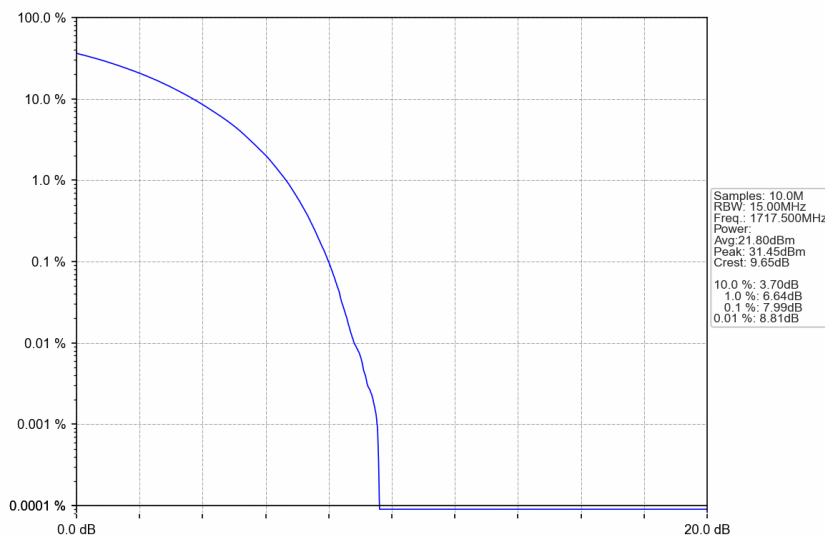
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n66\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_1772.5MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1717.5MHz\_Outer\_Full



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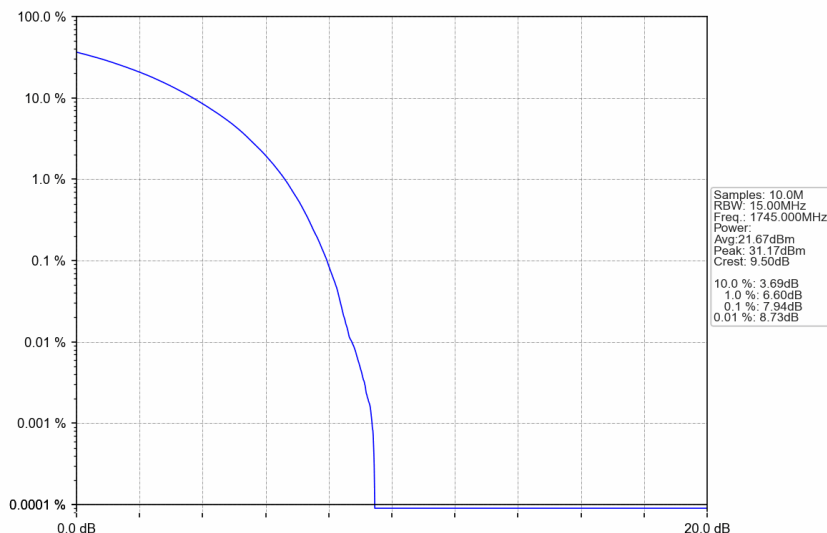
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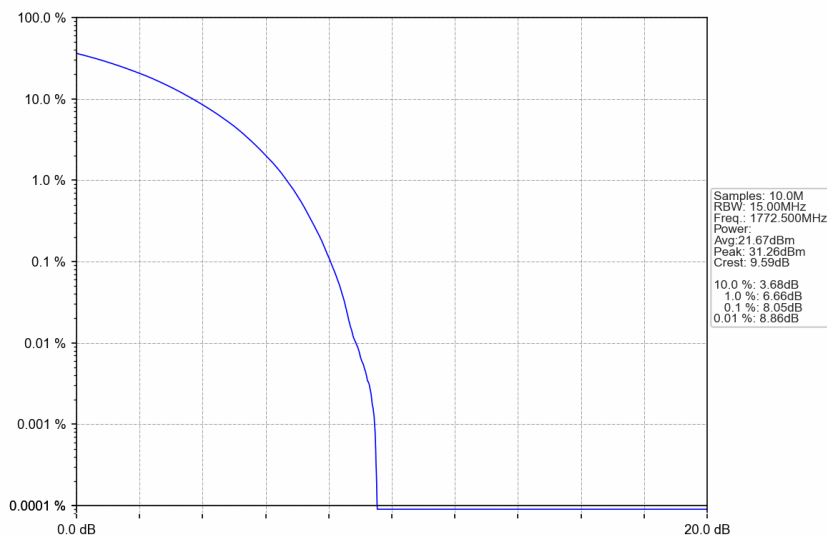
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n66\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1745MHz\_Outer\_Full



n66\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM QPSK\_1772.5MHz\_Outer\_Full

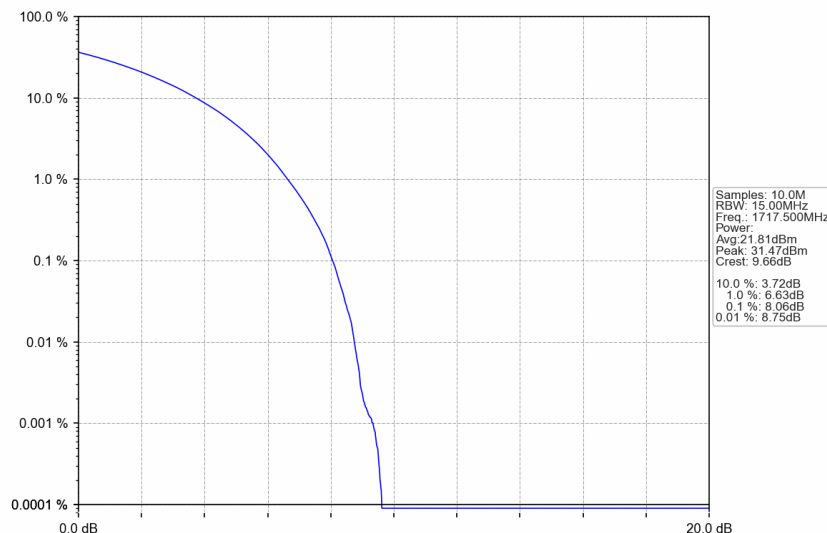


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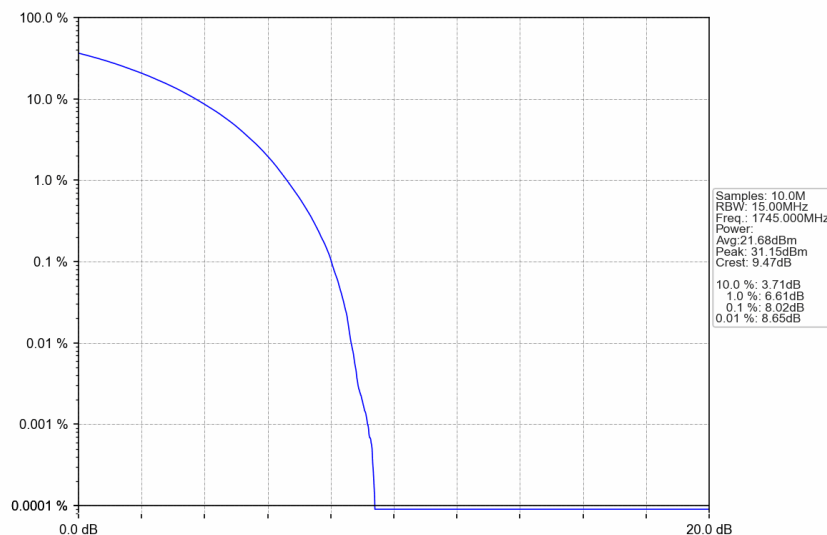
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