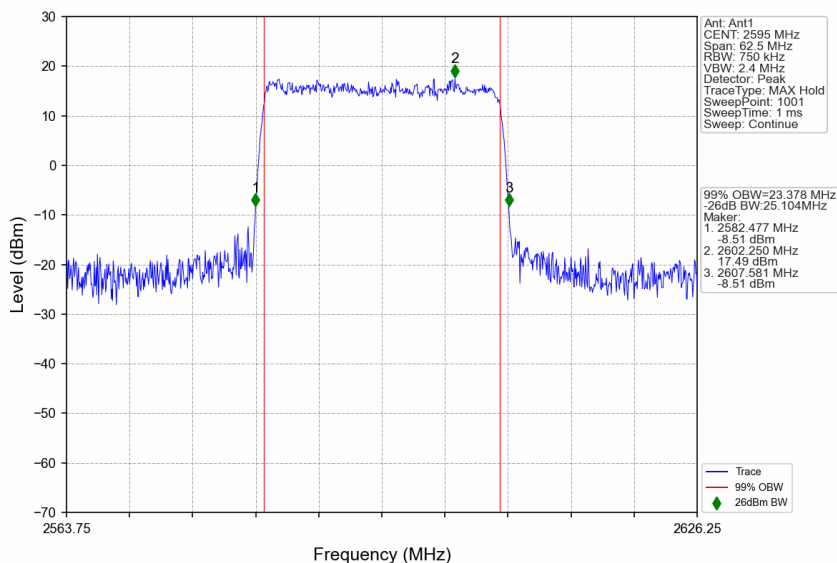
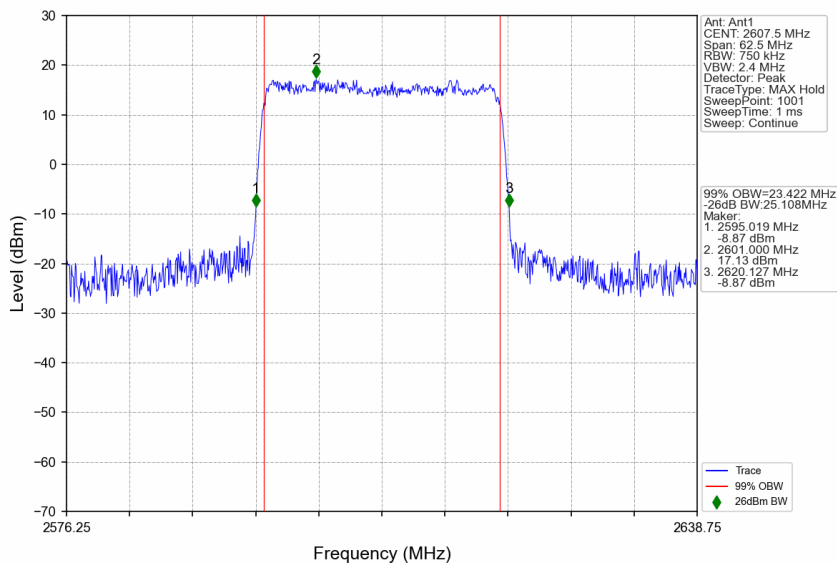


n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2607.5MHz_Outer_Full

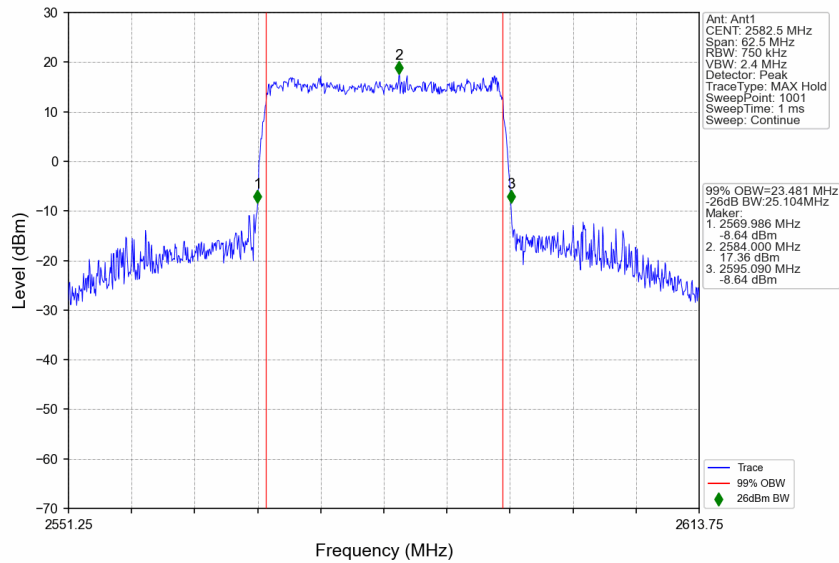


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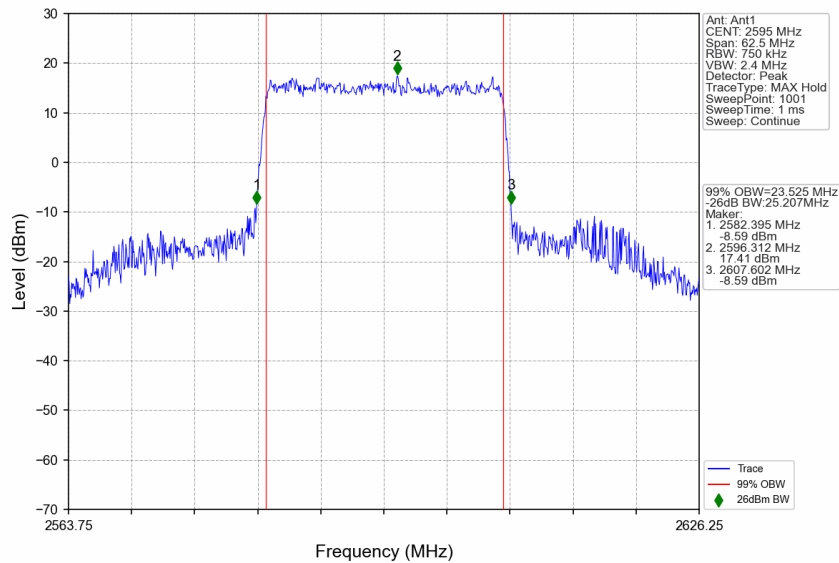
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2582.5MHz_Outer_Full



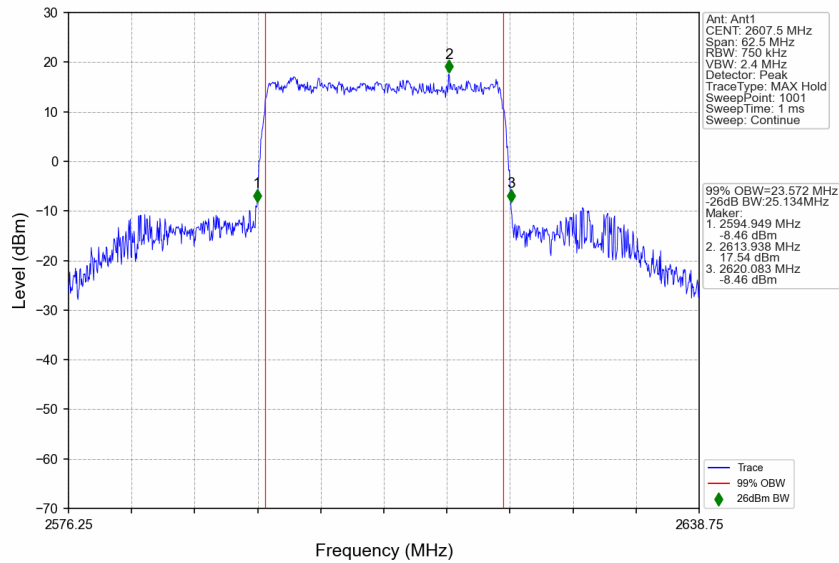
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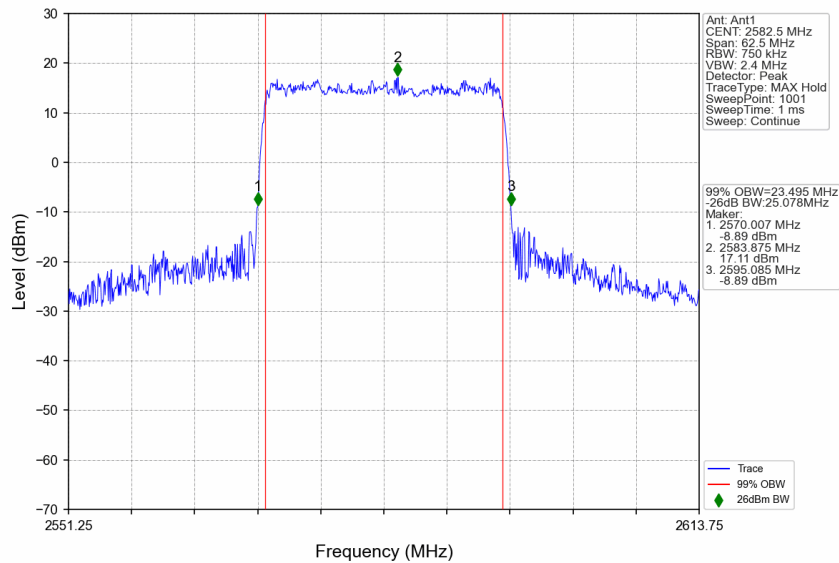
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2582.5MHz_Outer_Full

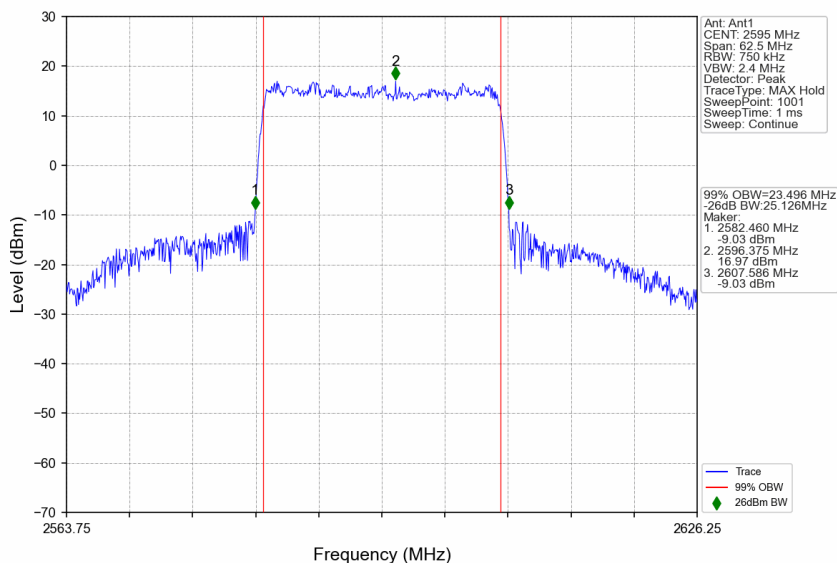


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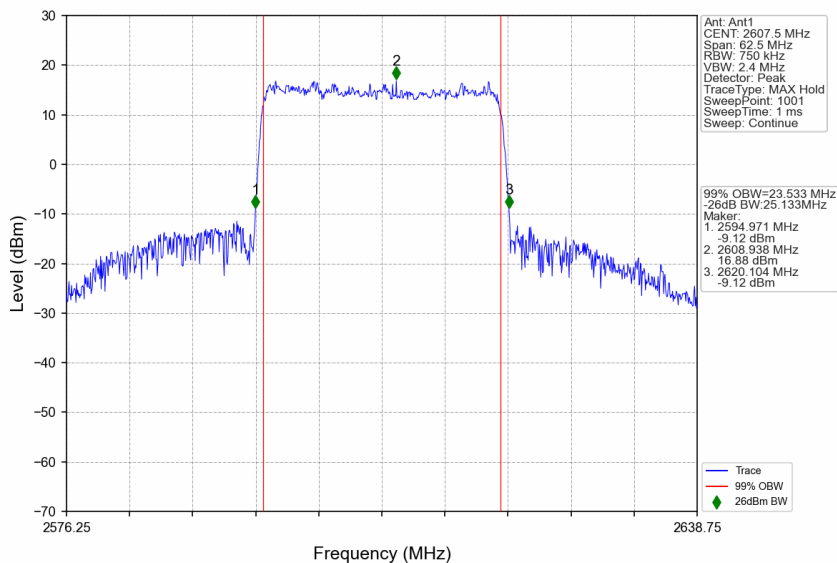
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2607.5MHz_Outer_Full

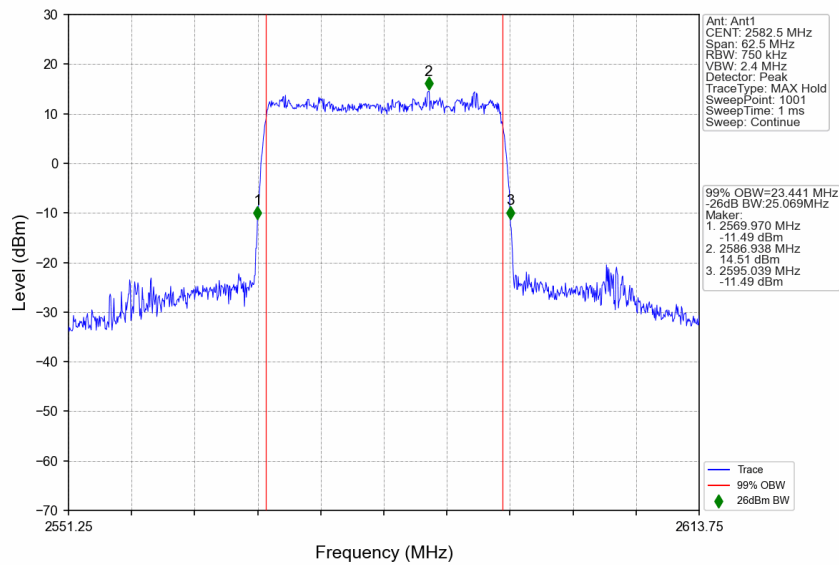


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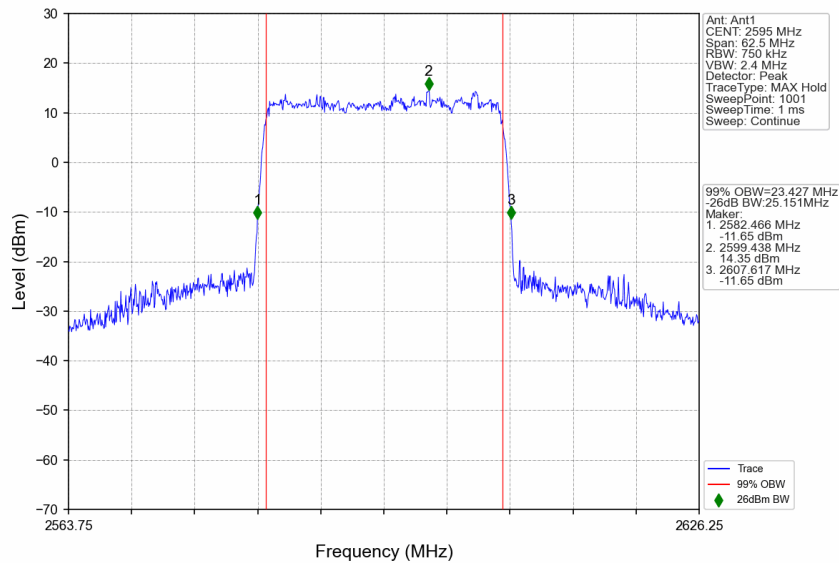
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2582.5MHz_Outer_Full



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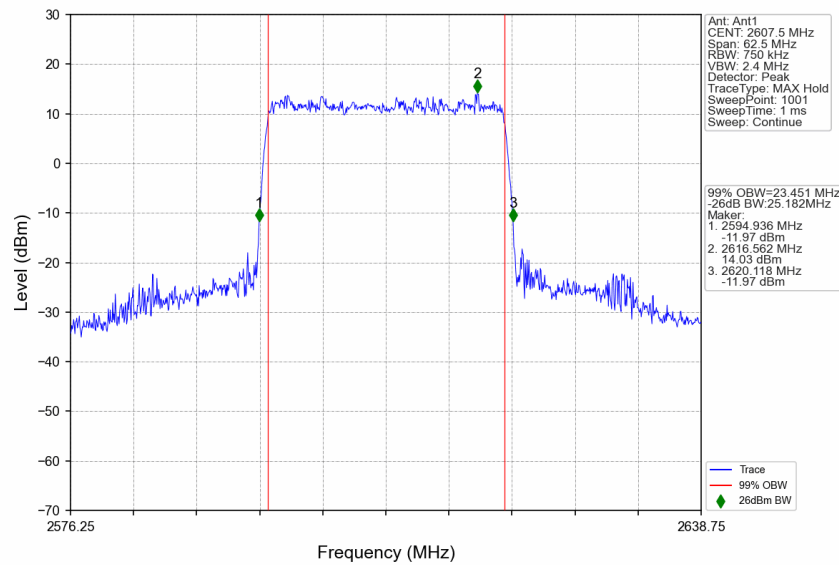


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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2607.5MHz_Outer_Full



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4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

5G NR n38 SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	27.09	29.11	/	Pass
	2595	Outer_Full	27.09	29.09	/	Pass
	2605	Outer_Full	27.05	29.04	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	27.11	29.23	/	Pass
	2595	Outer_Full	27.09	29.12	/	Pass
	2605	Outer_Full	27.03	29.18	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	27.02	29.05	/	Pass
	2595	Outer_Full	27.16	29.10	/	Pass
	2605	Outer_Full	27.10	29.03	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	27.18	29.12	/	Pass
	2595	Outer_Full	27.12	29.27	/	Pass
	2605	Outer_Full	27.16	29.18	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	27.05	29.14	/	Pass
	2595	Outer_Full	27.08	29.14	/	Pass
	2605	Outer_Full	27.09	29.17	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.00	30.12	/	Pass
	2595	Outer_Full	28.01	30.23	/	Pass
	2605	Outer_Full	28.07	30.21	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.07	30.11	/	Pass
	2595	Outer_Full	28.13	30.07	/	Pass
	2605	Outer_Full	28.11	30.18	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.05	30.07	/	Pass
	2595	Outer_Full	28.05	30.11	/	Pass
	2605	Outer_Full	28.02	30.17	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.09	30.04	/	Pass
	2595	Outer_Full	28.07	30.16	/	Pass
	2605	Outer_Full	28.06	30.26	/	Pass

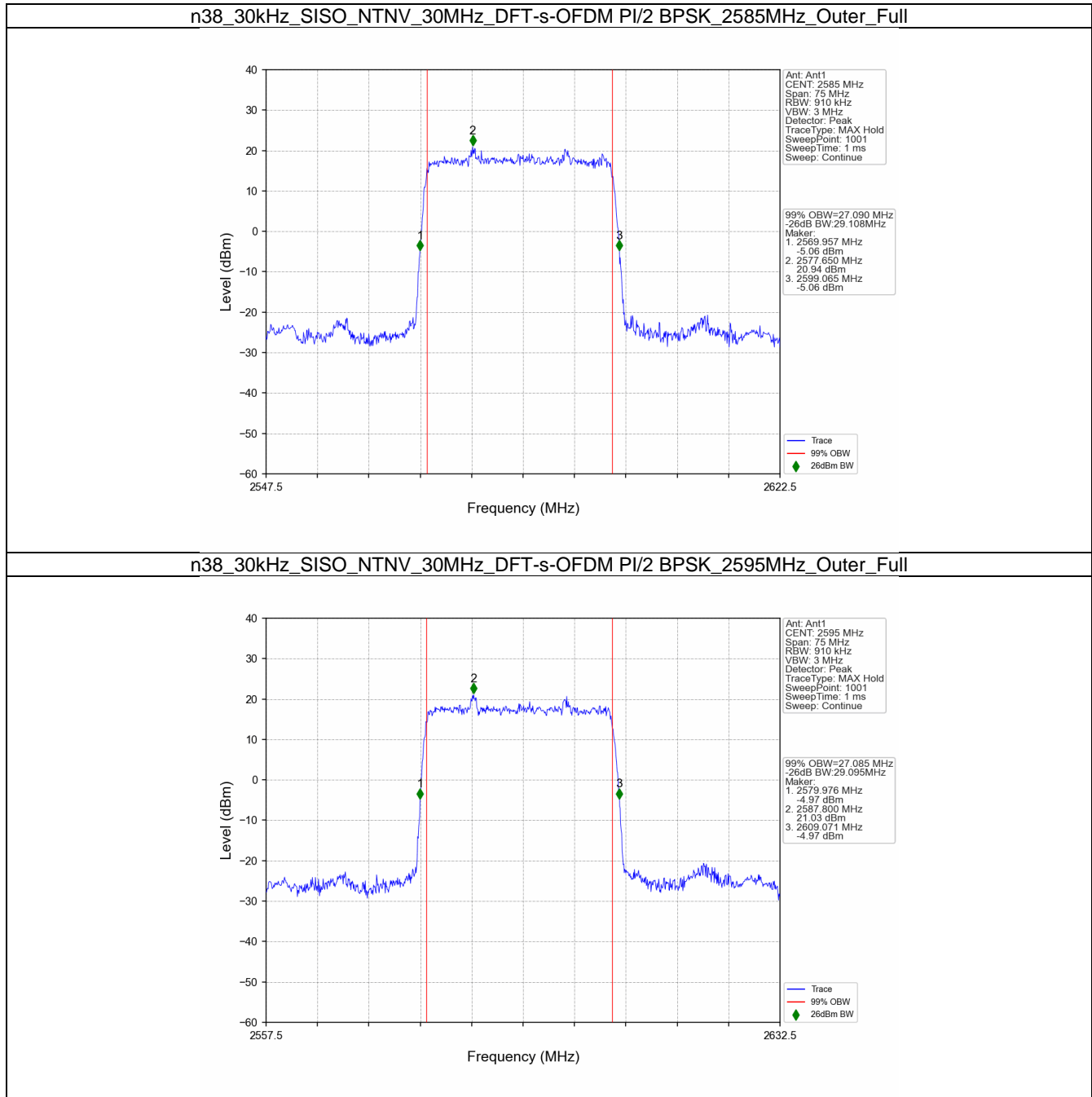


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4.12.2 Test Graph

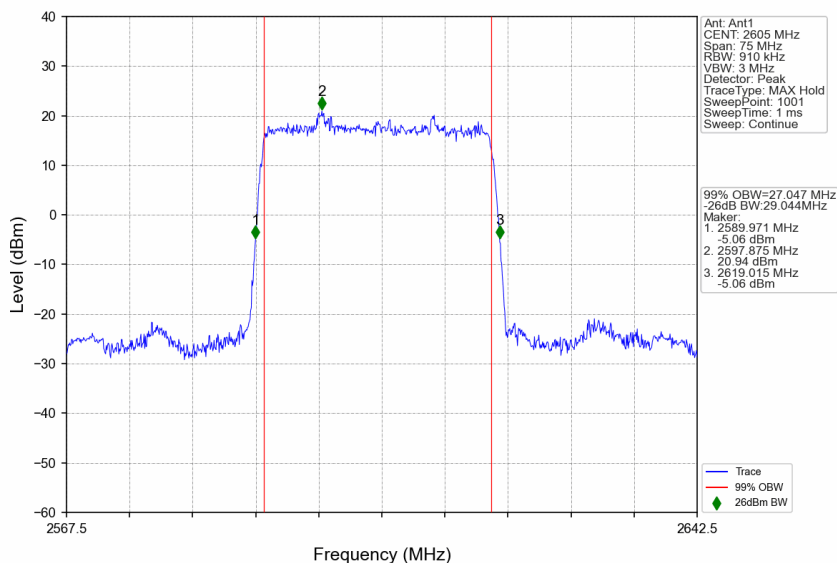


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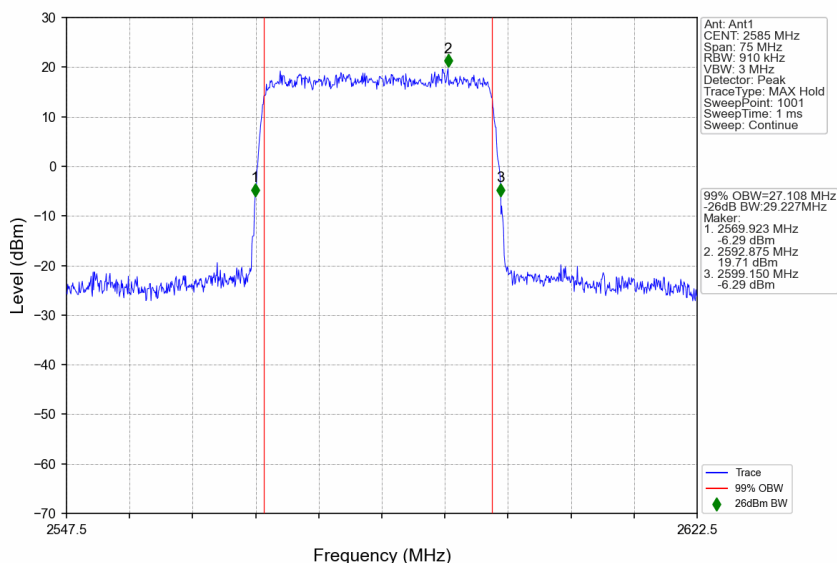
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2585MHz_Outer_Full

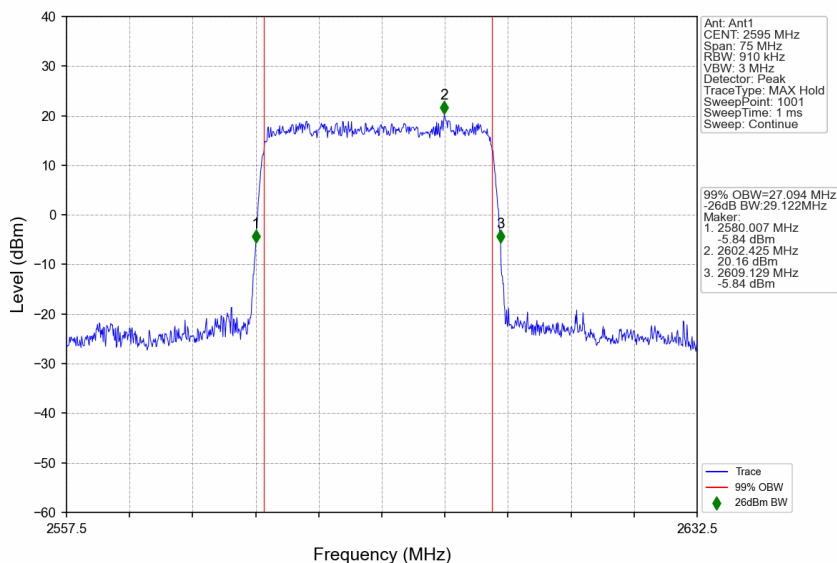


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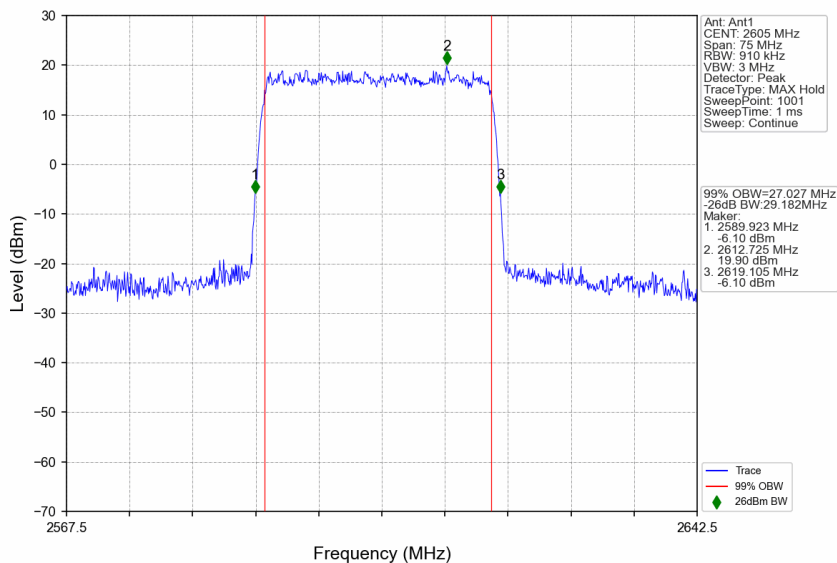
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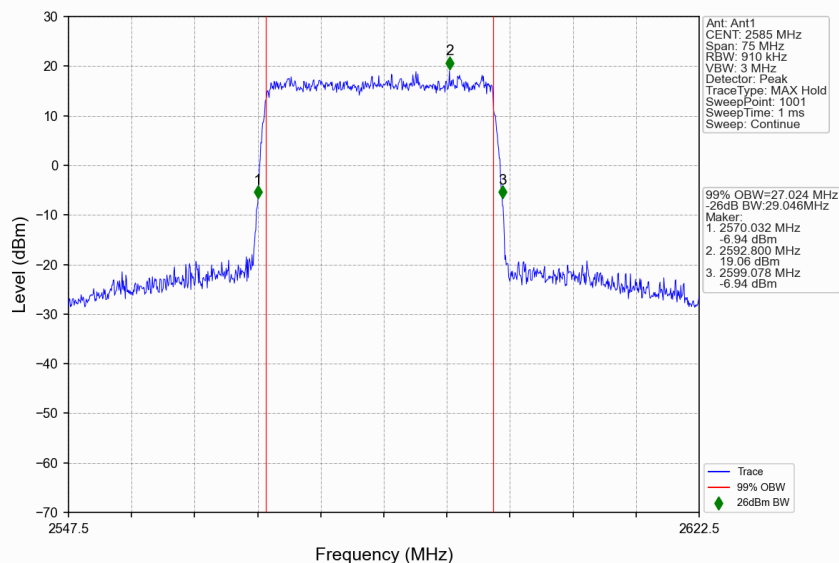
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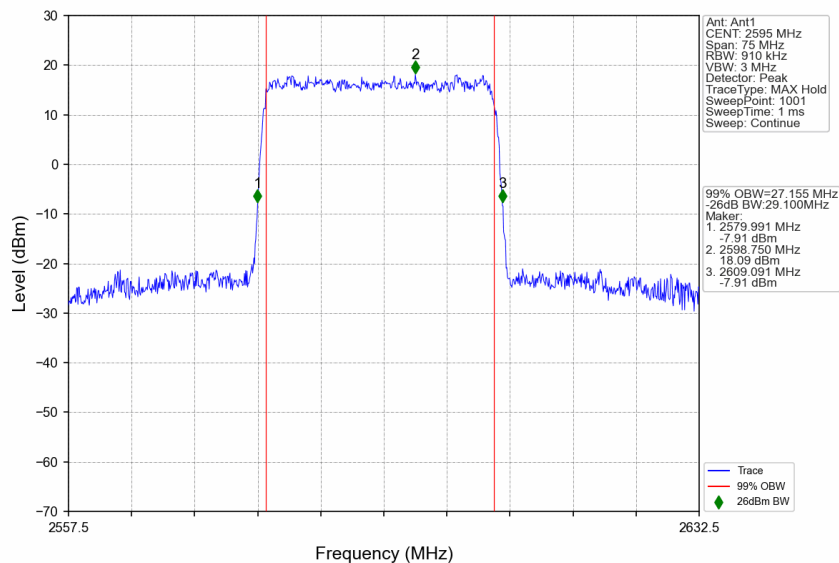
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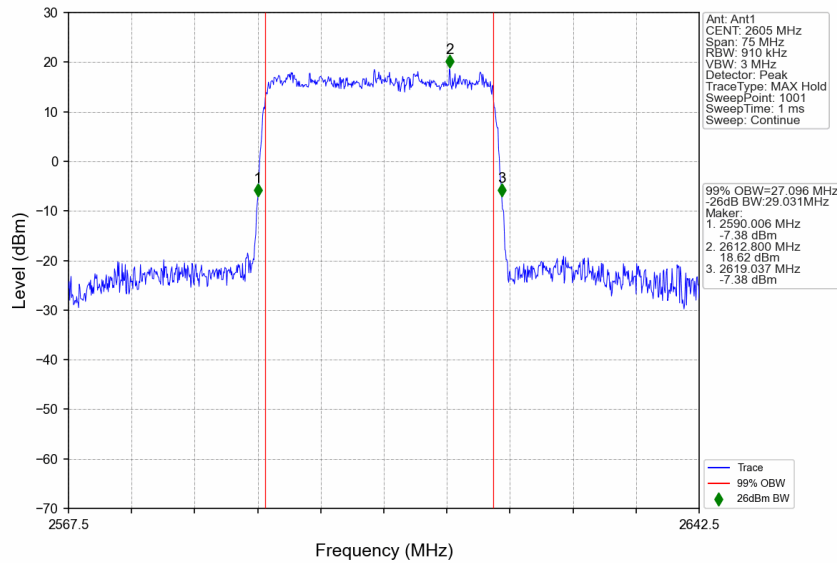


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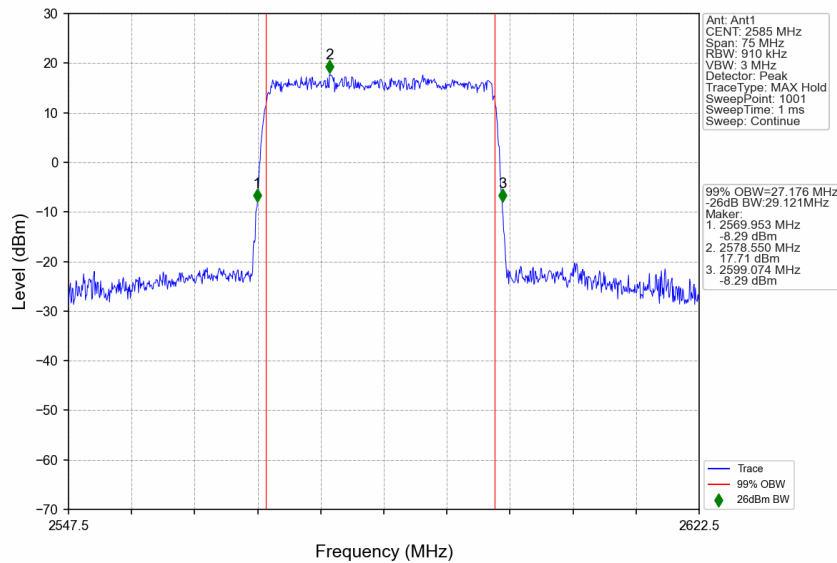
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2585MHz_Outer_Full

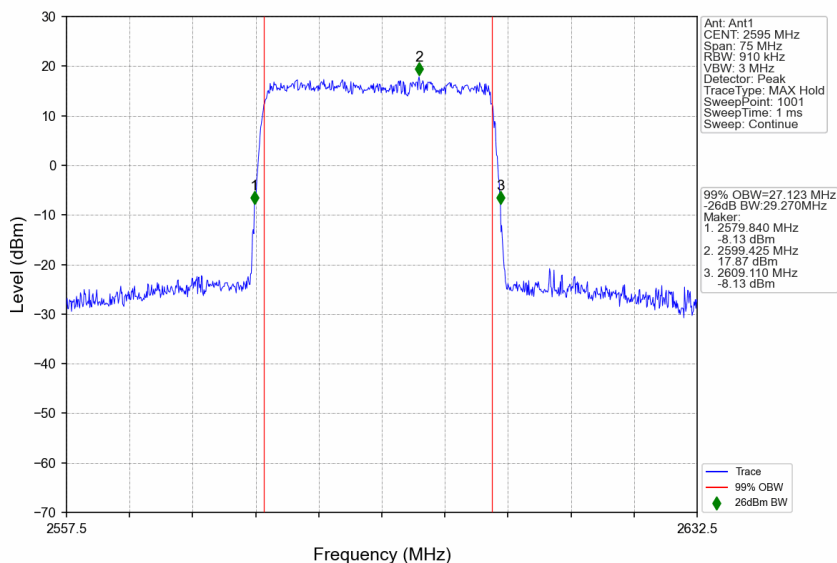


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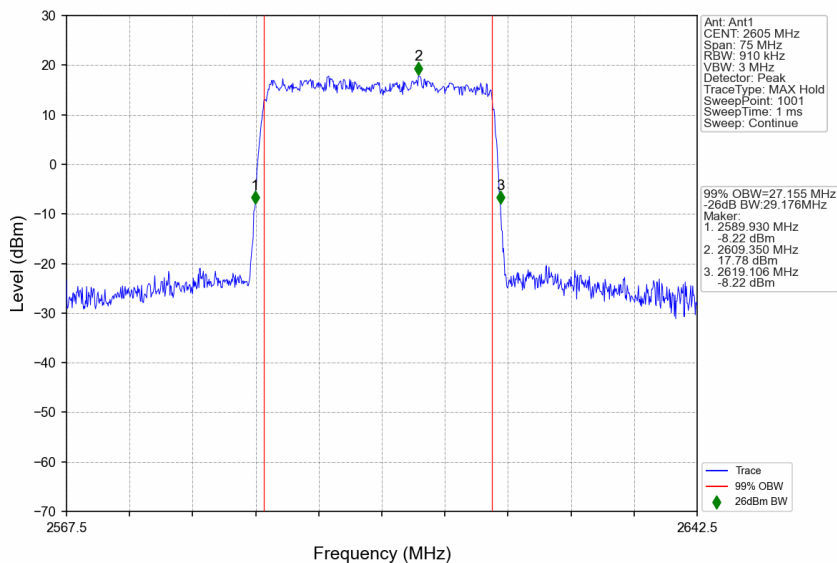
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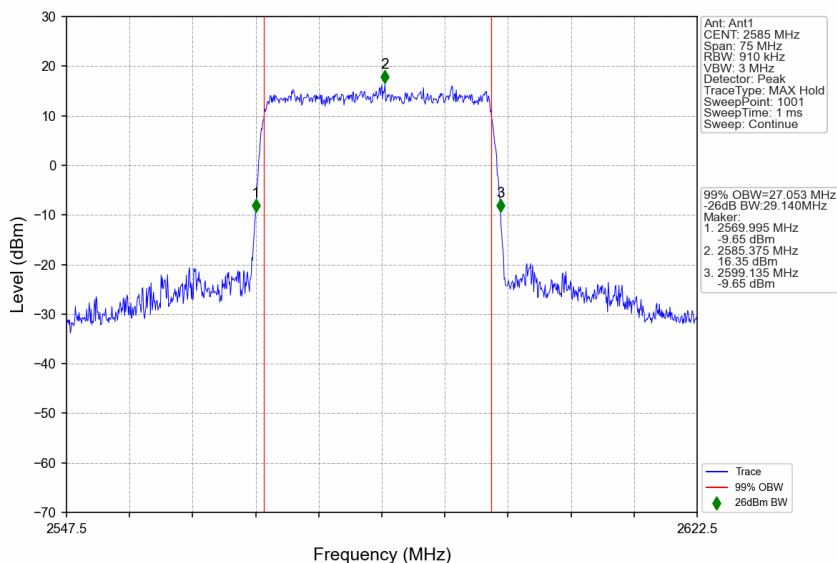
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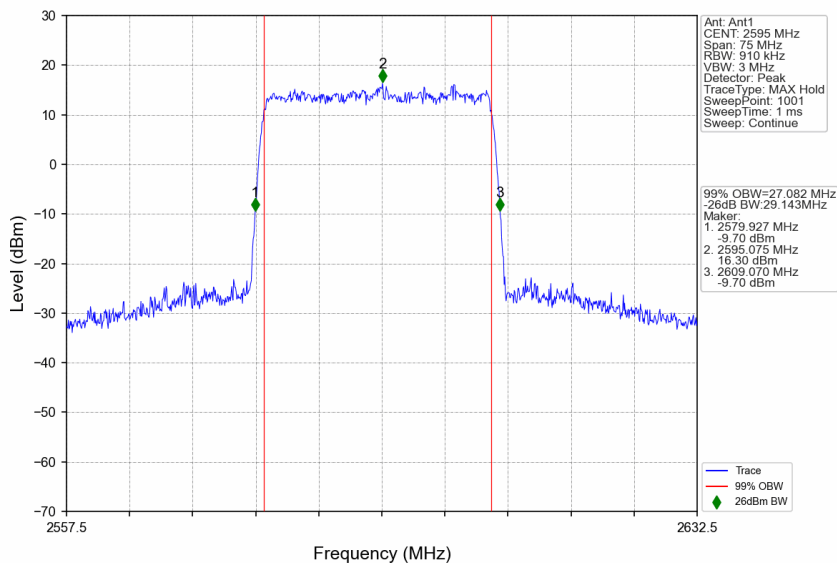
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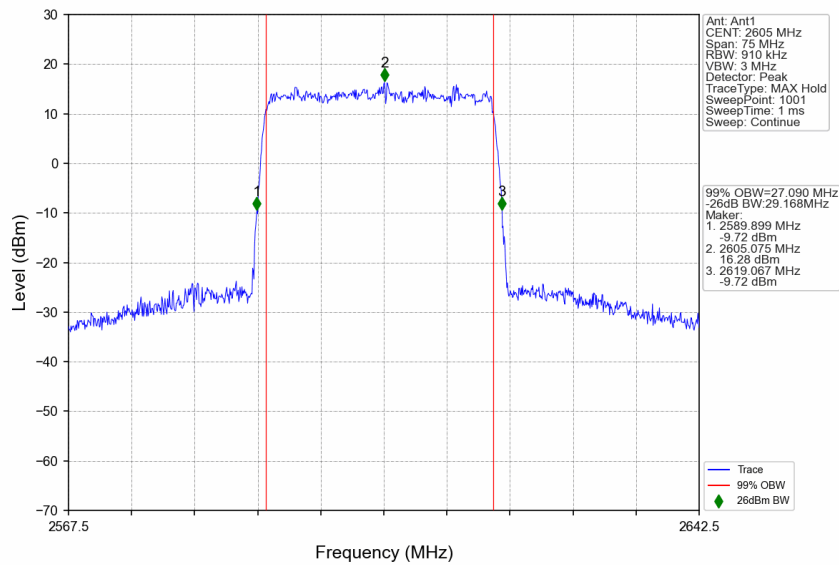


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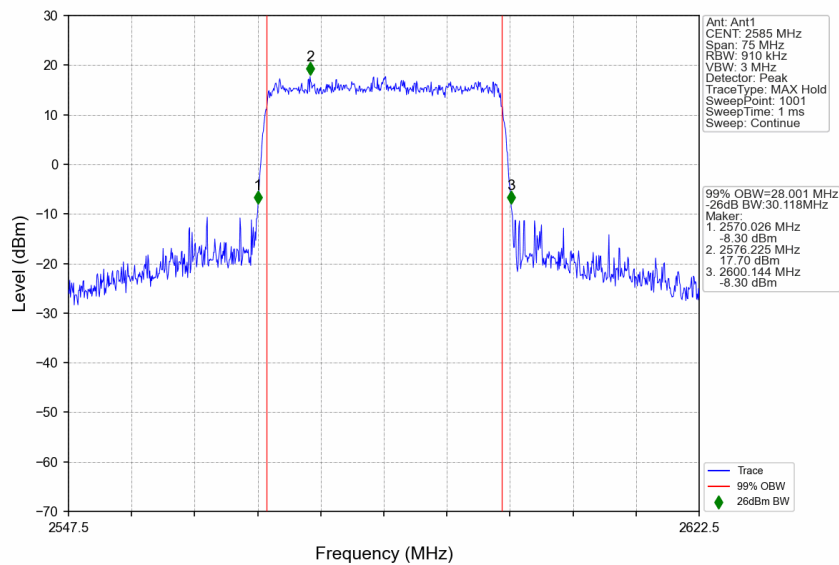
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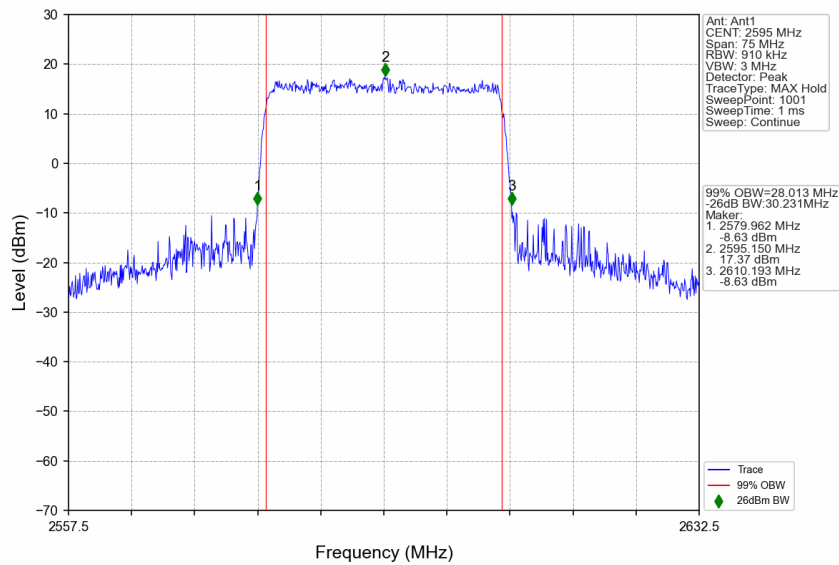


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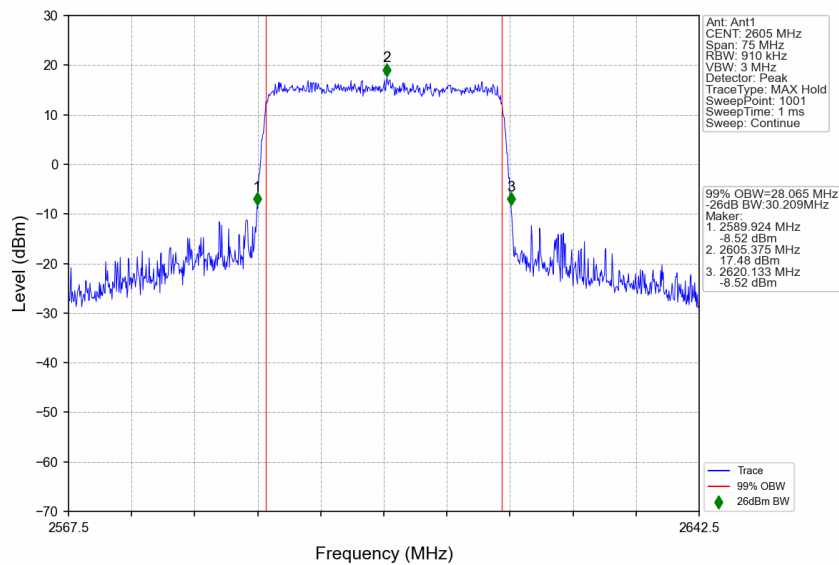
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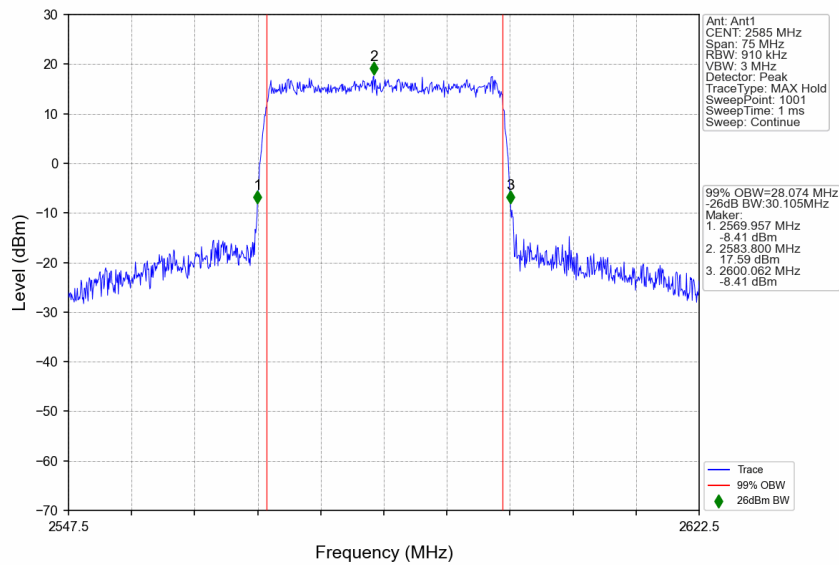


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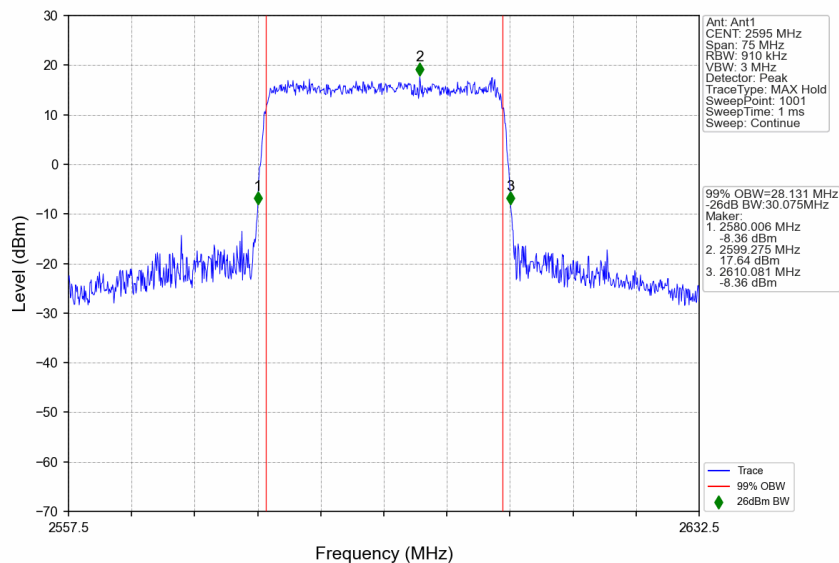
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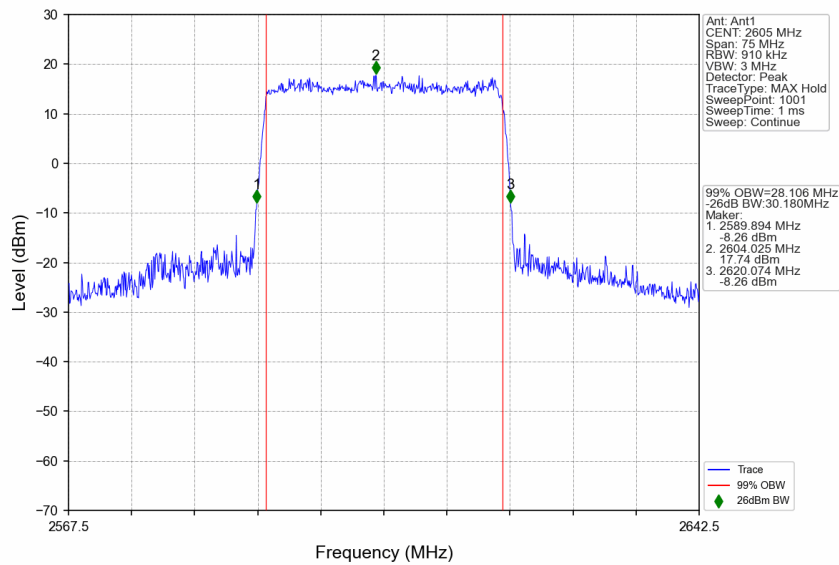


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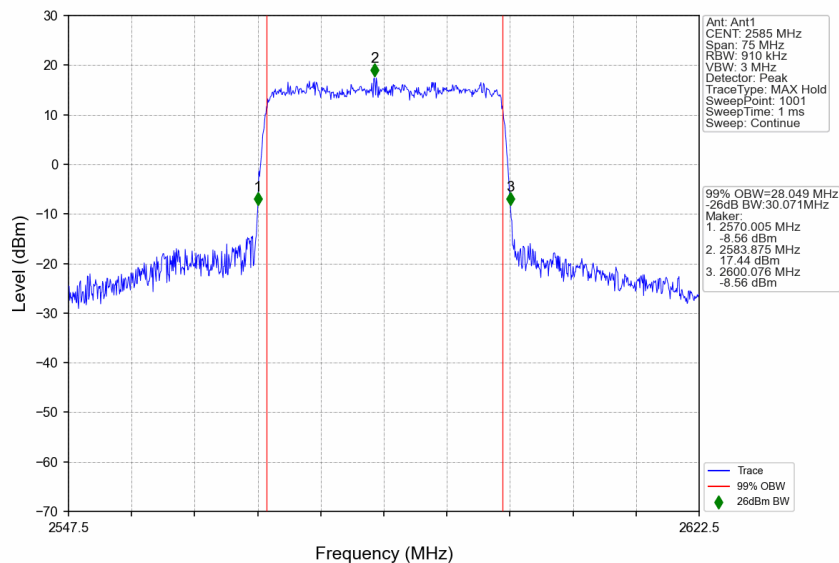
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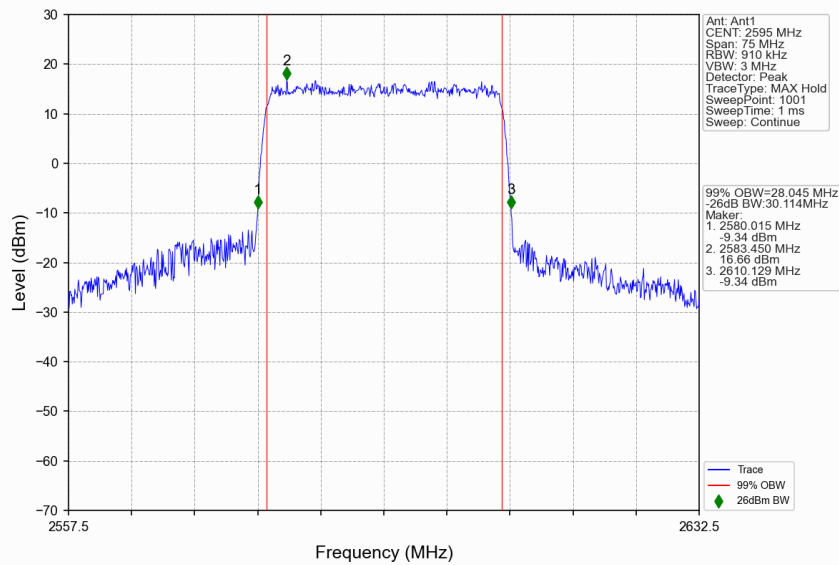


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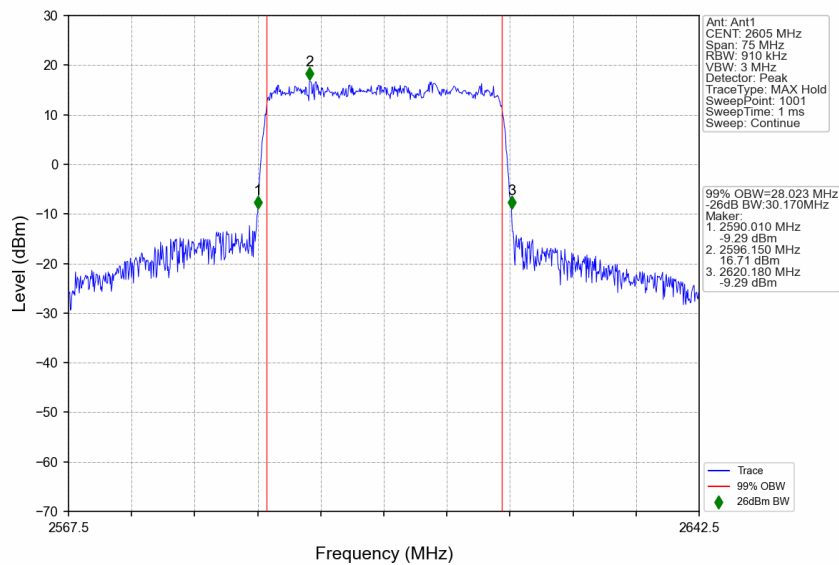
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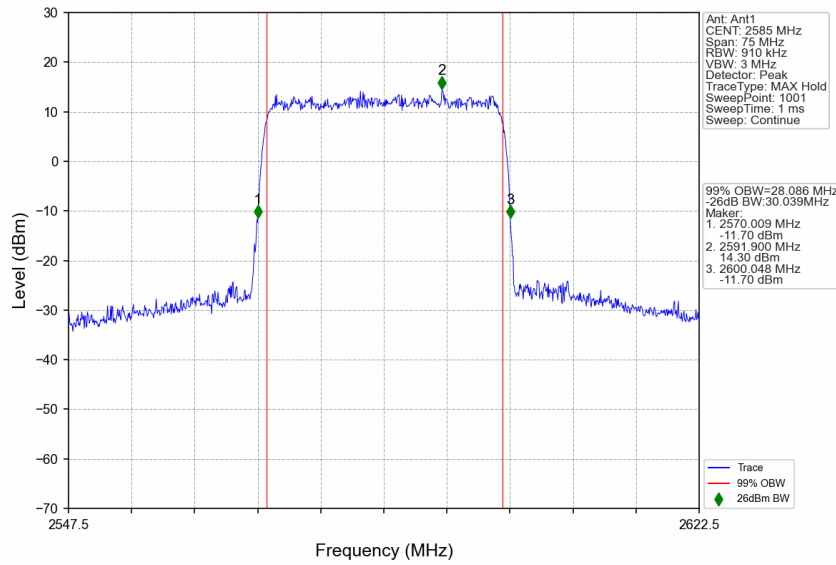


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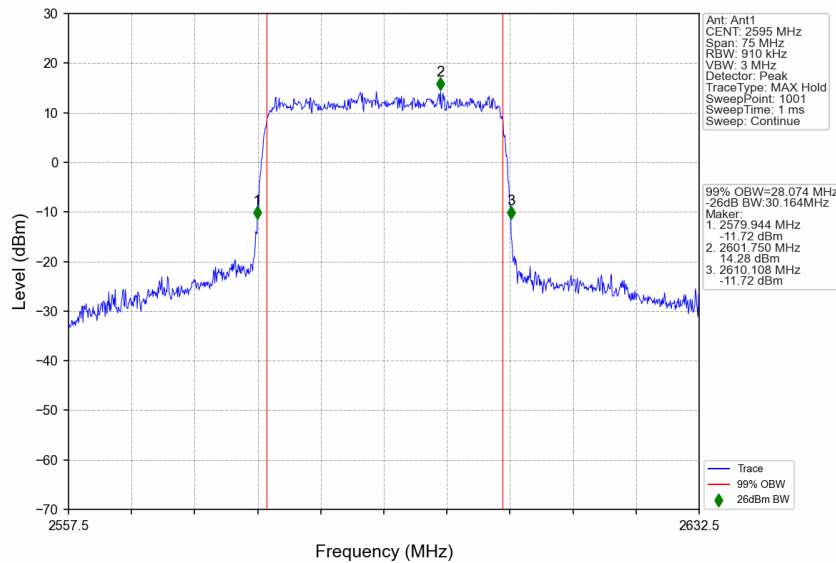
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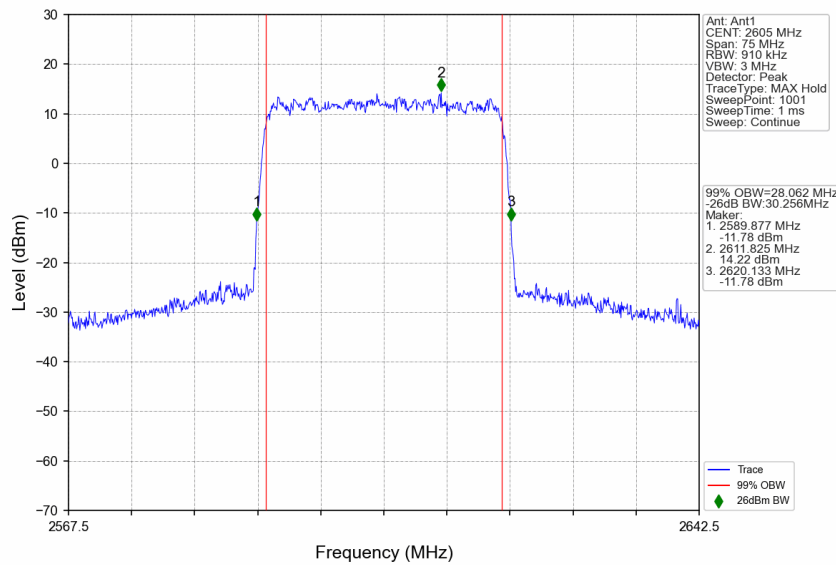


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4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

5G NR n38 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	2590	Outer_Full	36.21	38.75	/	Pass
	2595	Outer_Full	36.10	38.61	/	Pass
	2600	Outer_Full	36.10	38.65	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	36.14	38.67	/	Pass
	2595	Outer_Full	36.12	38.73	/	Pass
	2600	Outer_Full	36.05	38.66	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	36.05	38.69	/	Pass
	2595	Outer_Full	36.05	38.71	/	Pass
	2600	Outer_Full	36.01	38.71	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	36.14	38.70	/	Pass
	2595	Outer_Full	36.15	38.88	/	Pass
	2600	Outer_Full	36.02	38.77	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	36.07	38.63	/	Pass
	2595	Outer_Full	36.02	38.64	/	Pass
	2600	Outer_Full	36.01	38.75	/	Pass
CP-OFDM QPSK	2590	Outer_Full	38.15	40.85	/	Pass
	2595	Outer_Full	38.10	40.83	/	Pass
	2600	Outer_Full	38.07	40.73	/	Pass
CP-OFDM 16 QAM	2590	Outer_Full	38.14	40.77	/	Pass
	2595	Outer_Full	38.22	40.79	/	Pass
	2600	Outer_Full	38.17	40.79	/	Pass
CP-OFDM 64 QAM	2590	Outer_Full	38.15	40.79	/	Pass
	2595	Outer_Full	38.18	40.80	/	Pass
	2600	Outer_Full	38.14	40.81	/	Pass
CP-OFDM 256 QAM	2590	Outer_Full	38.16	40.84	/	Pass
	2595	Outer_Full	38.06	40.86	/	Pass
	2600	Outer_Full	38.12	40.77	/	Pass

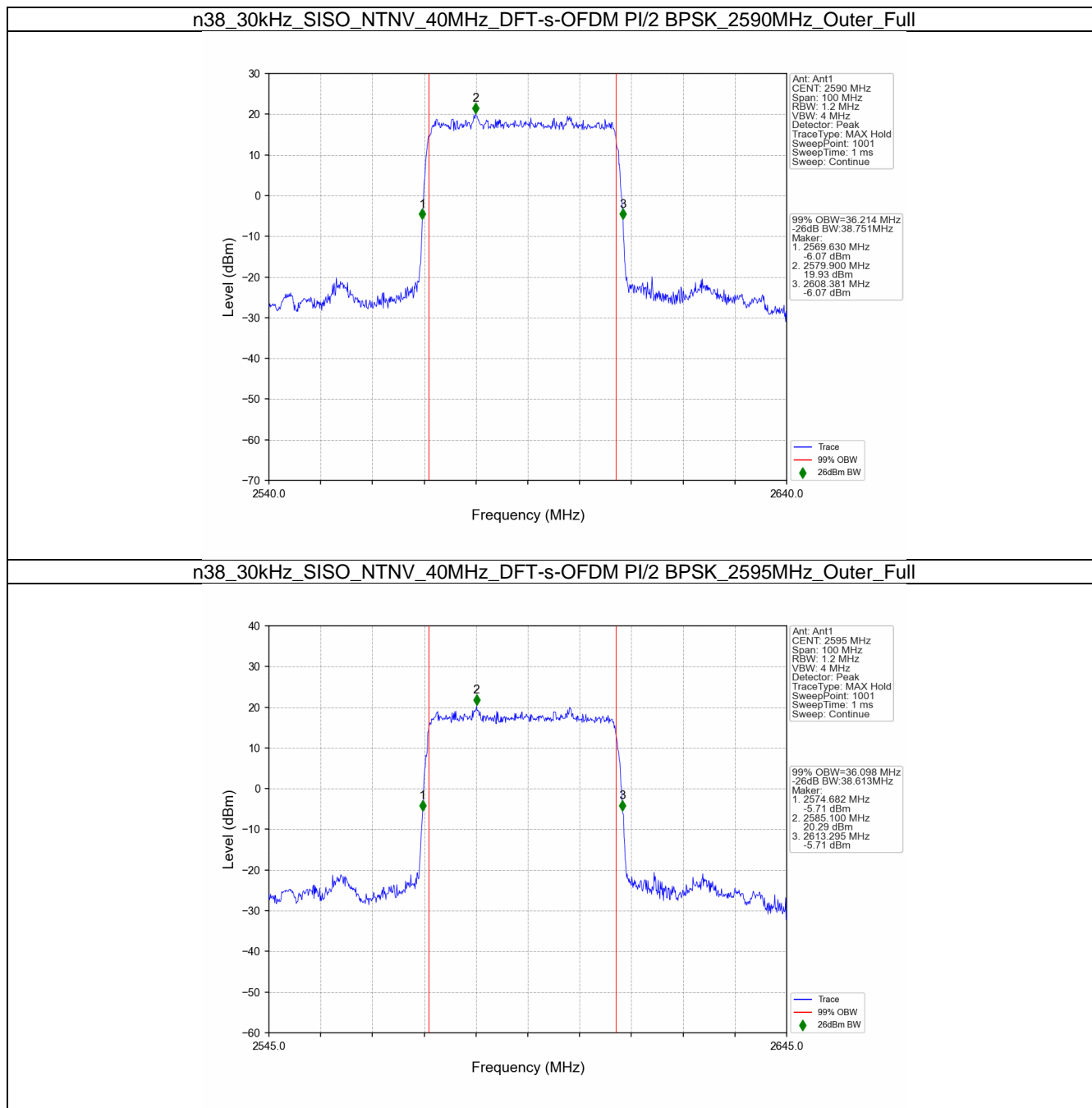


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4.13.2 Test Graph

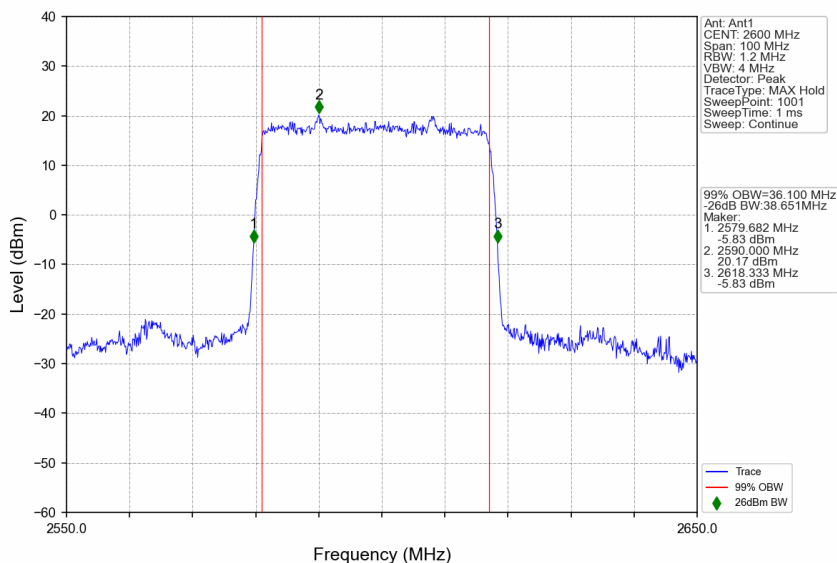


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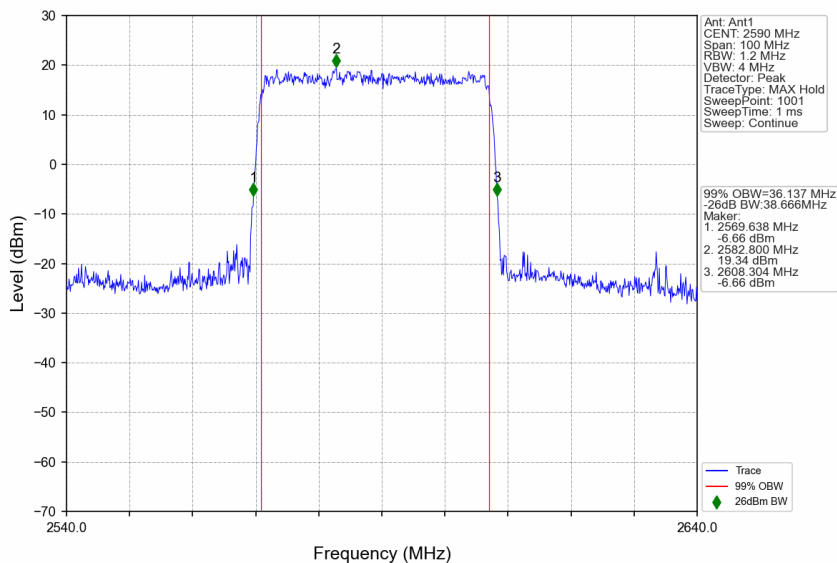
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



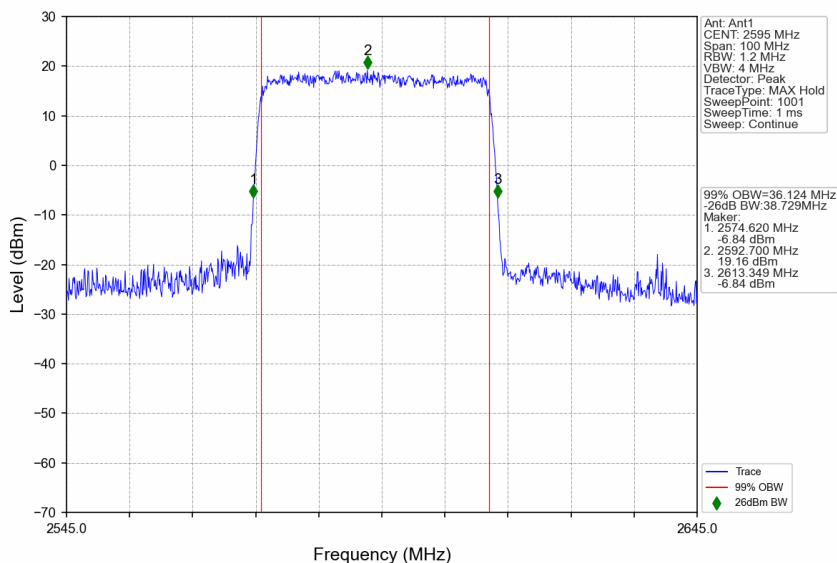
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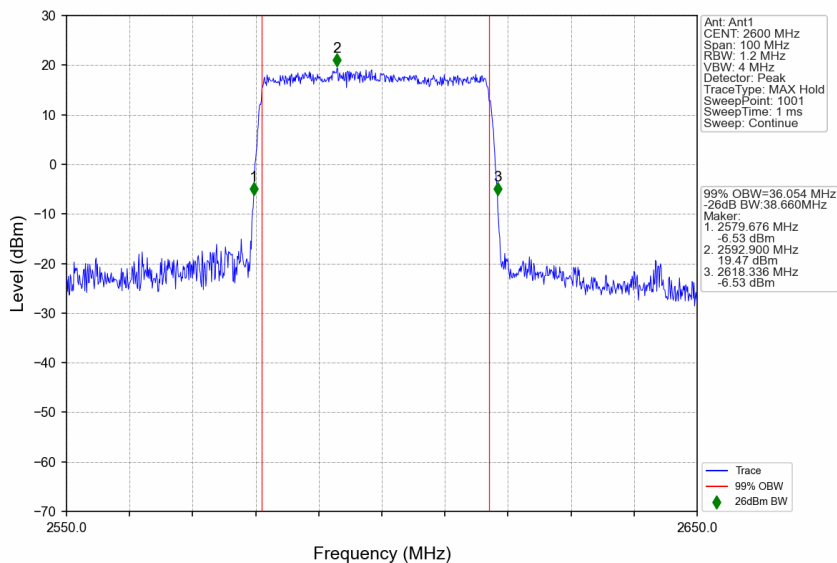
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full



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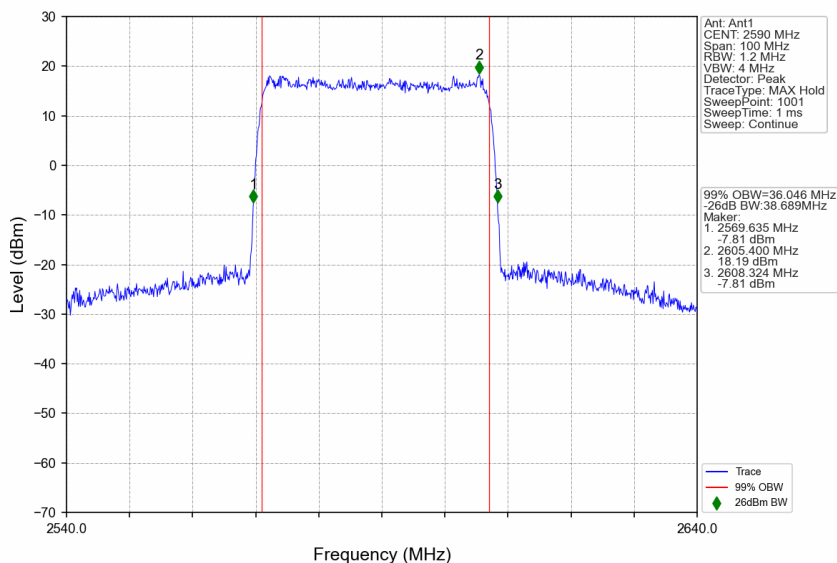
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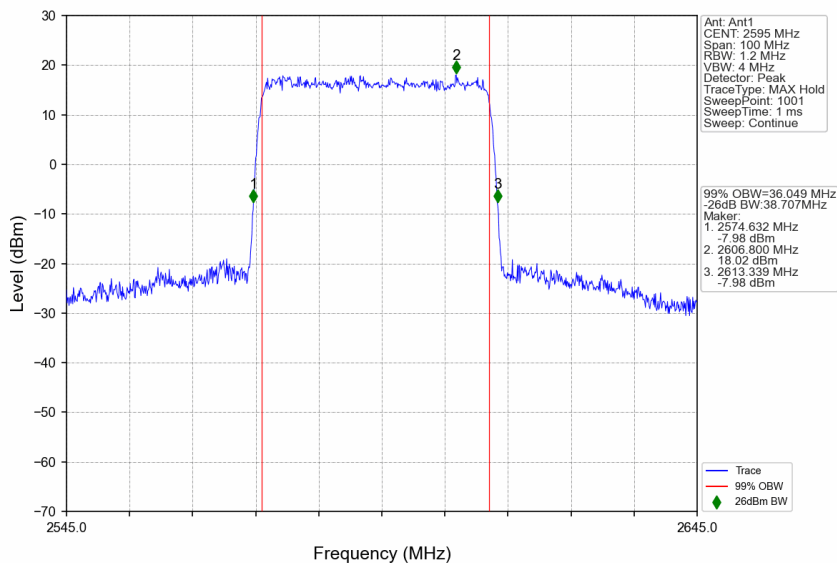
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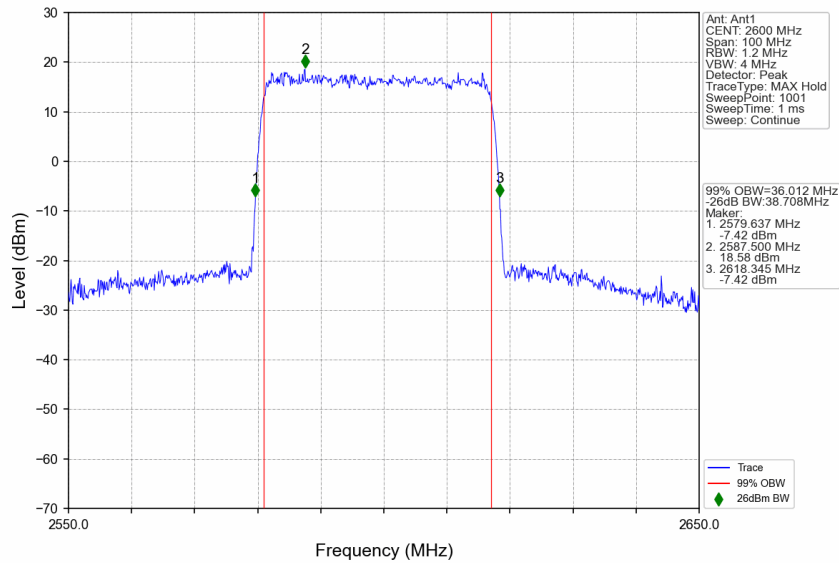


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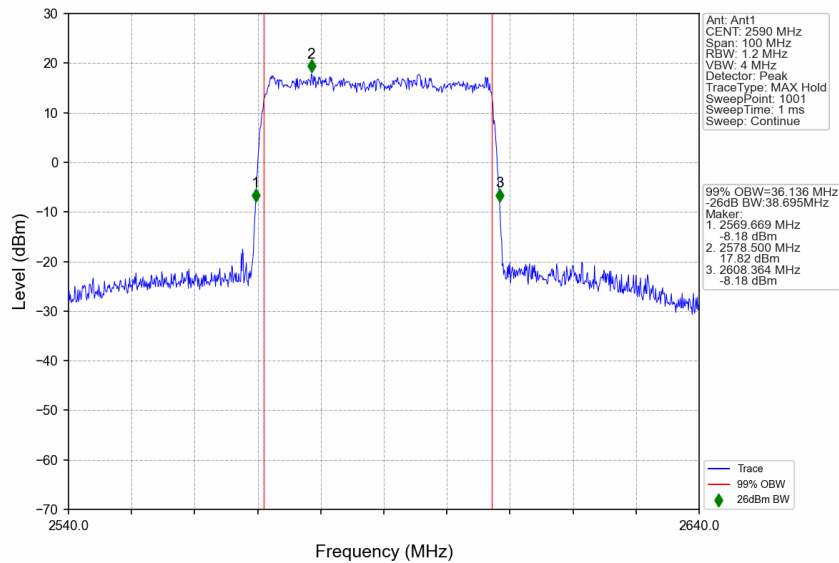
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2590MHz_Outer_Full

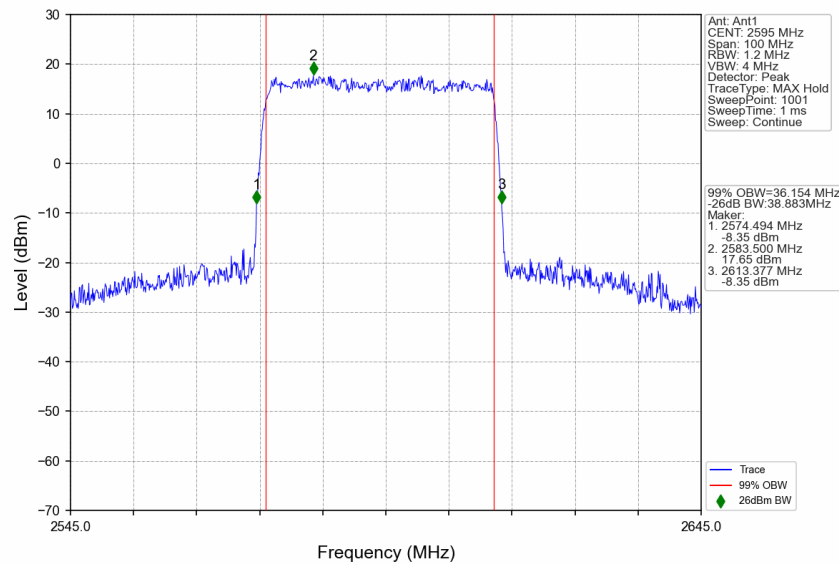


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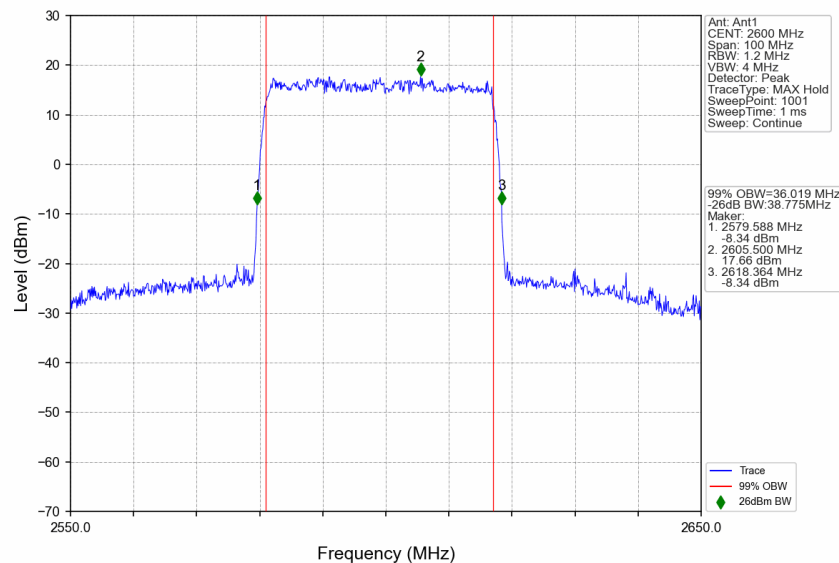
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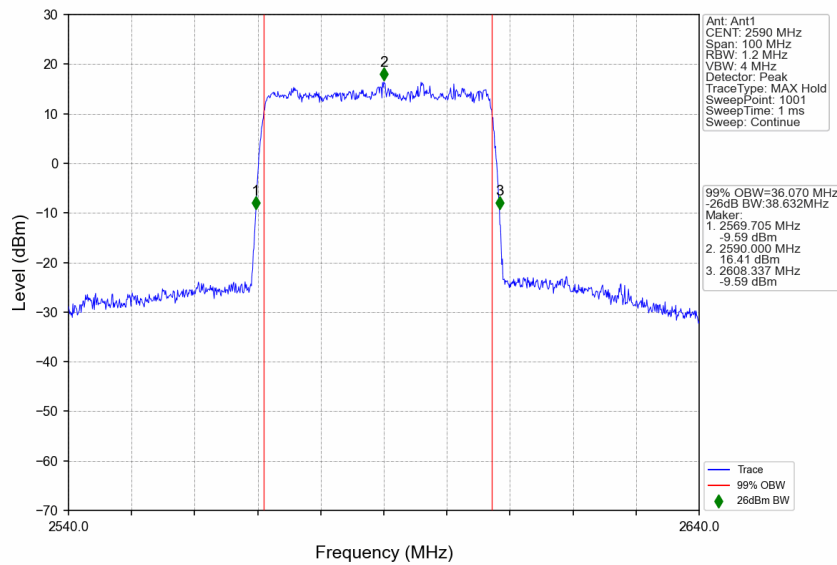


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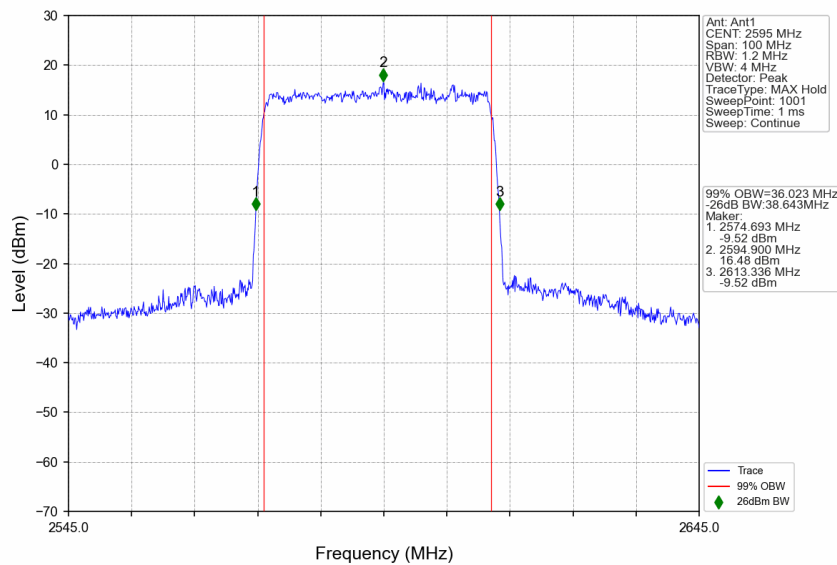
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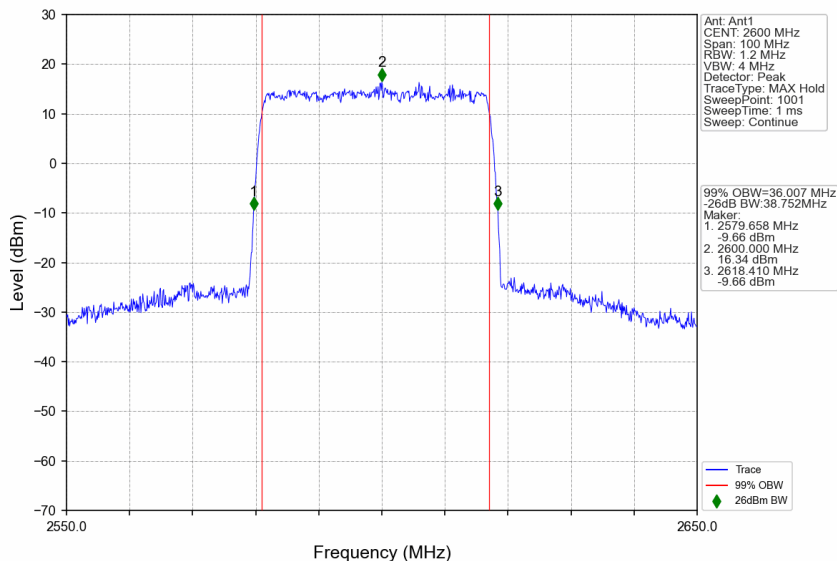


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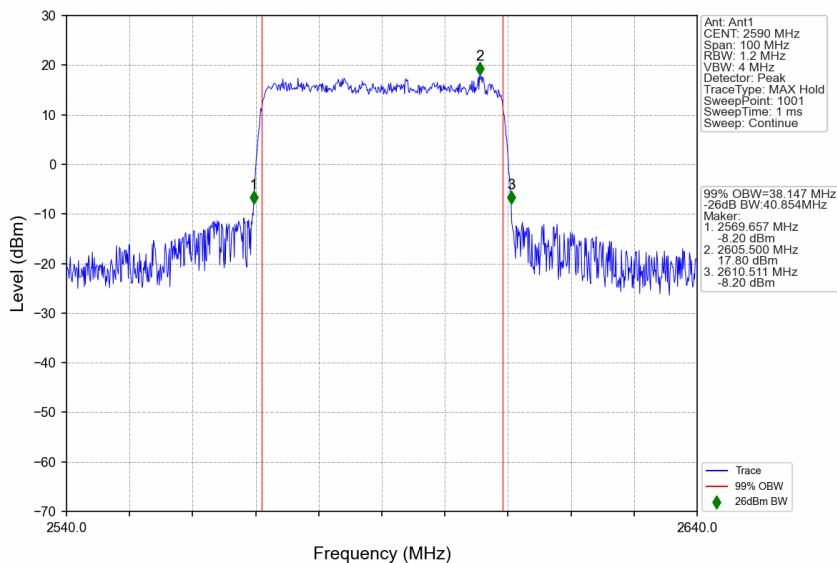
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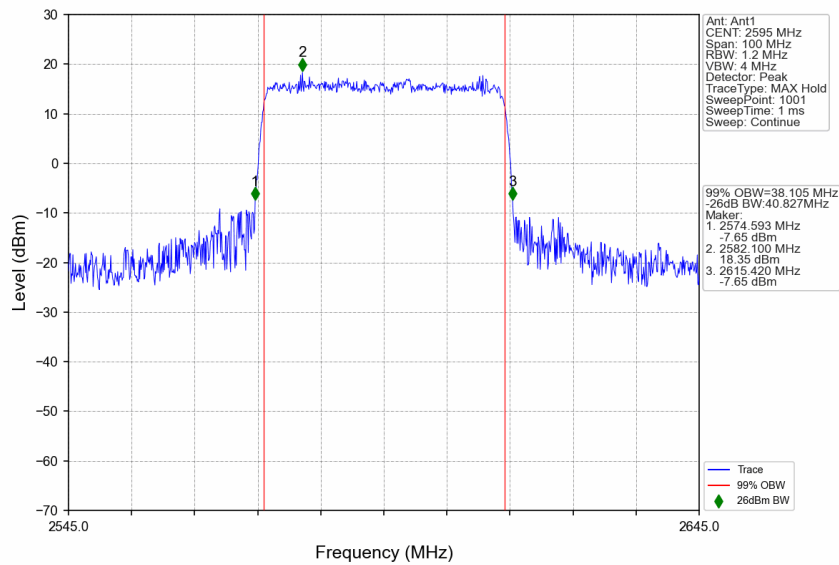


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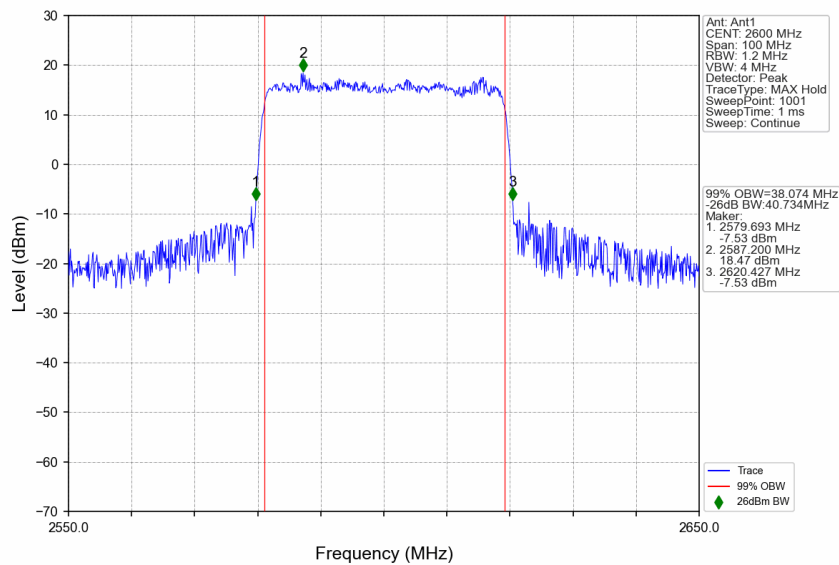
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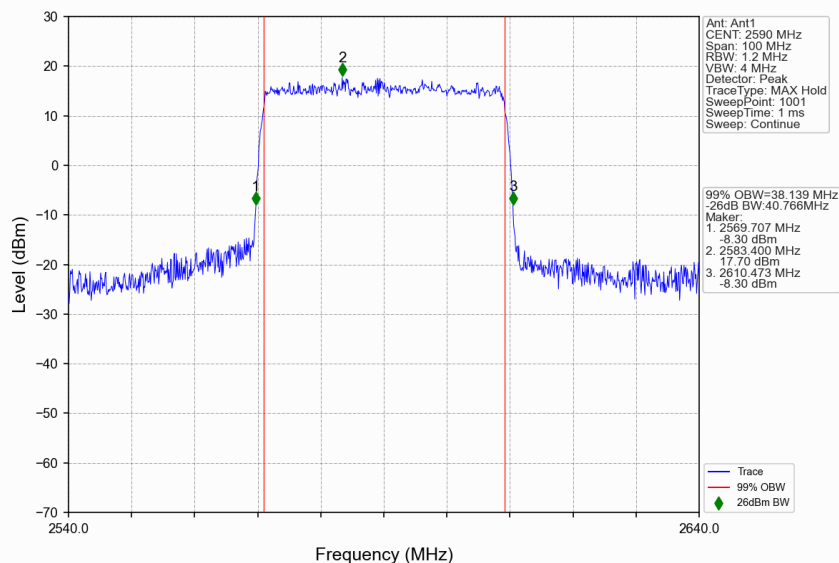


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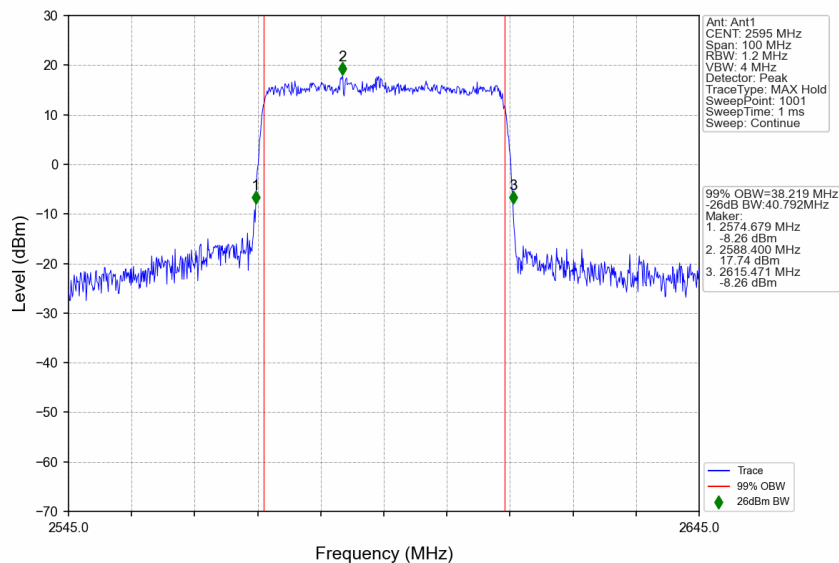
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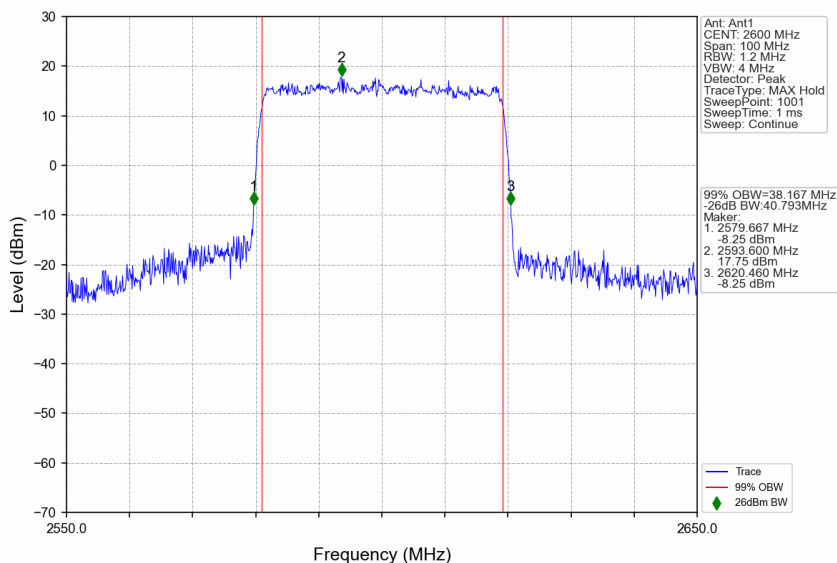


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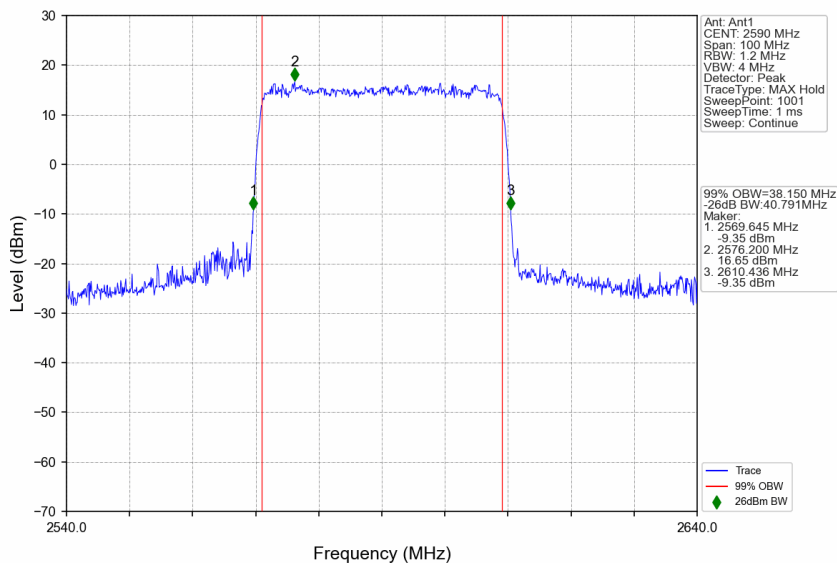
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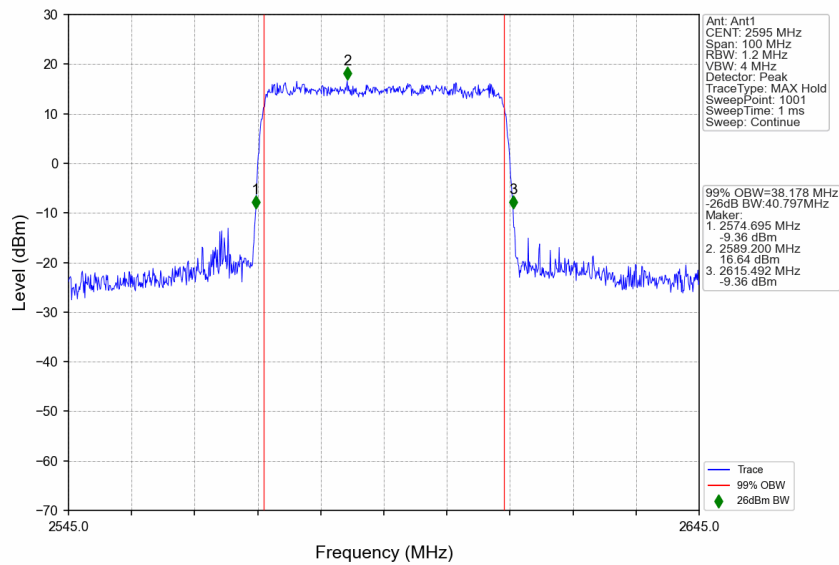


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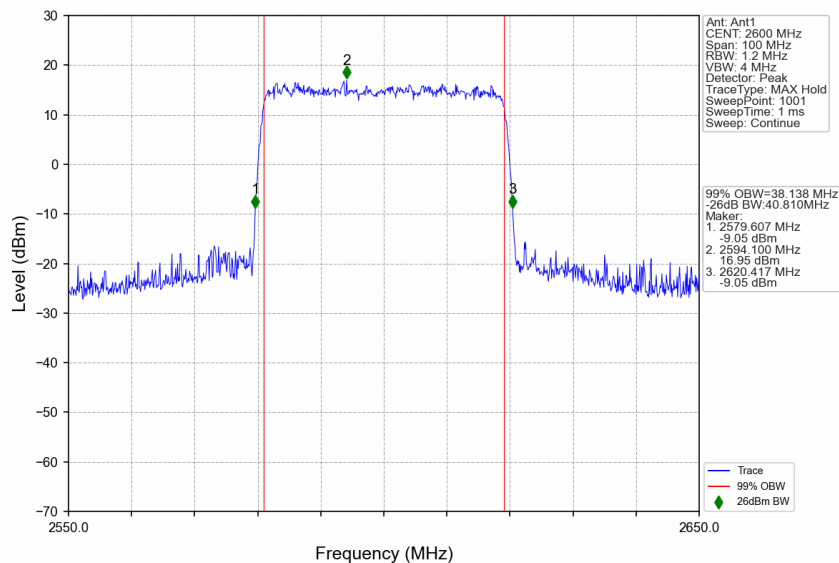
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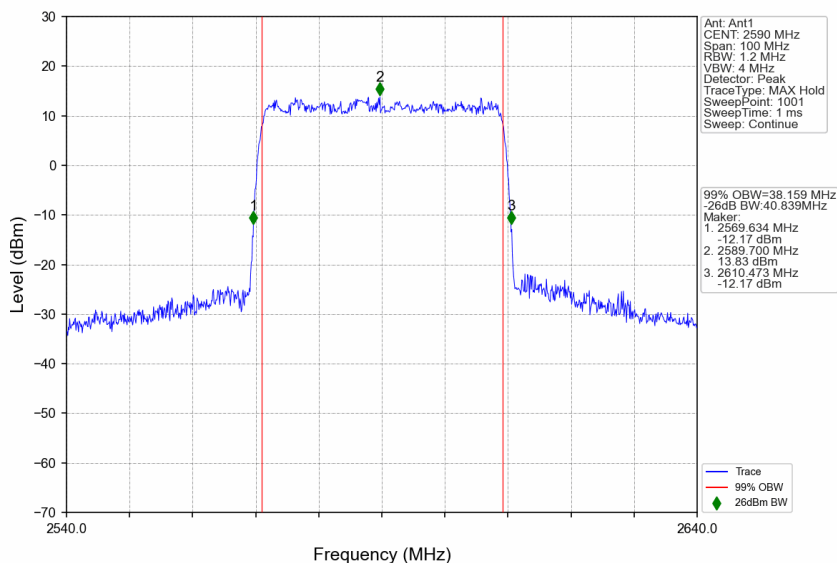


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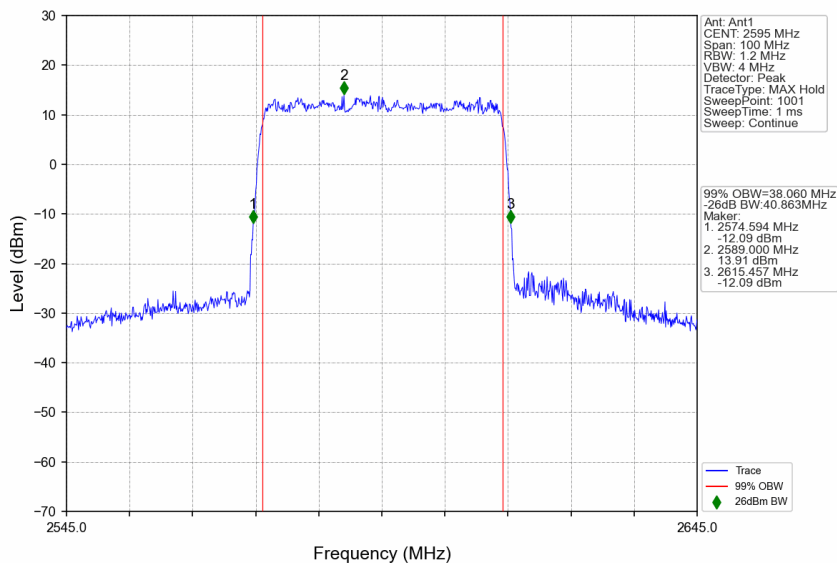
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2595MHz_Outer_Full

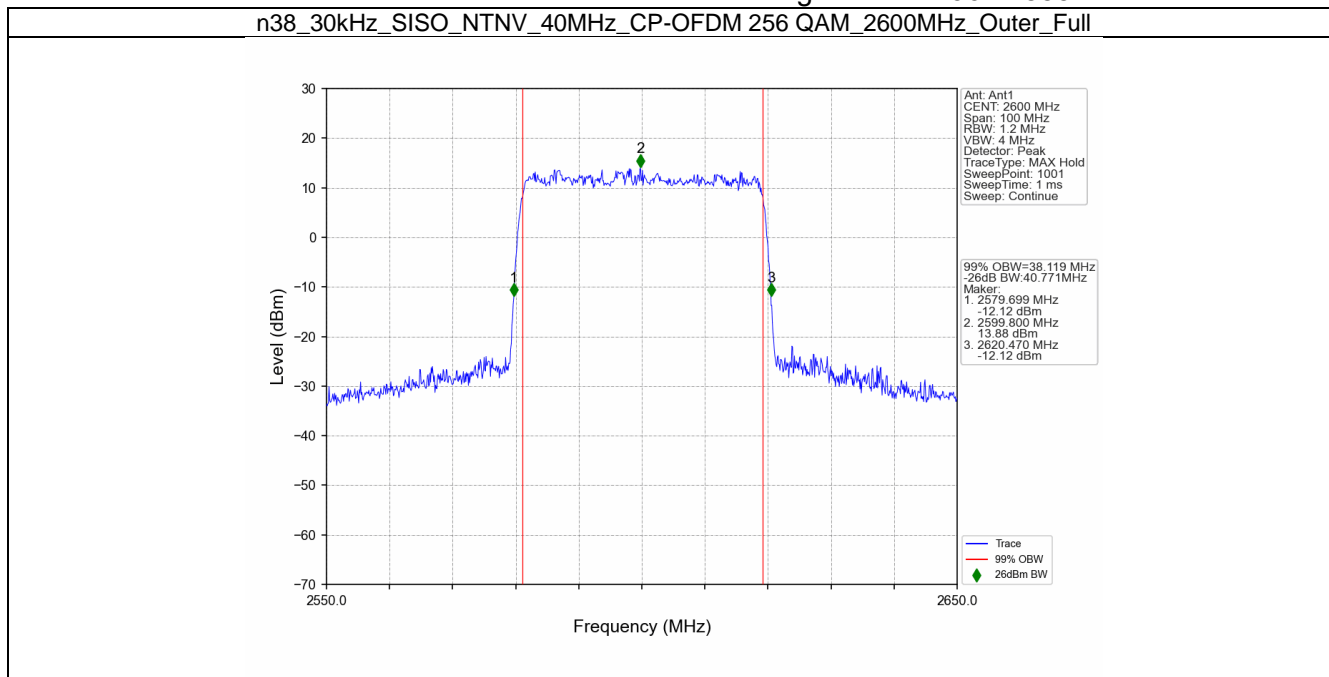


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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2600MHz_Outer_Full



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5. Peak-Average Ratio

5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

5G NR n38 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	2572.5	Outer_Full	10.95	/	/	<=13	Pass
	2595	Outer_Full	11.02	/	/	<=13	Pass
	2617.5	Outer_Full	10.63	/	/	<=13	Pass
DFT-s-OFDM QPSK	2572.5	Outer_Full	12.02	/	/	<=13	Pass
	2595	Outer_Full	12.05	/	/	<=13	Pass
	2617.5	Outer_Full	11.75	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2572.5	Outer_Full	12.39	/	/	<=13	Pass
	2595	Outer_Full	12.40	/	/	<=13	Pass
	2617.5	Outer_Full	12.37	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2572.5	Outer_Full	12.57	/	/	<=13	Pass
	2595	Outer_Full	12.47	/	/	<=13	Pass
	2617.5	Outer_Full	12.58	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2572.5	Outer_Full	12.74	/	/	<=13	Pass
	2595	Outer_Full	10.15	/	/	<=13	Pass
	2617.5	Outer_Full	12.65	/	/	<=13	Pass
CP-OFDM QPSK	2572.5	Outer_Full	12.58	/	/	<=13	Pass
	2595	Outer_Full	11.56	/	/	<=13	Pass
	2617.5	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 16 QAM	2572.5	Outer_Full	11.45	/	/	<=13	Pass
	2595	Outer_Full	11.53	/	/	<=13	Pass
	2617.5	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 64 QAM	2572.5	Outer_Full	11.61	/	/	<=13	Pass
	2595	Outer_Full	11.73	/	/	<=13	Pass
	2617.5	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 256 QAM	2572.5	Outer_Full	11.55	/	/	<=13	Pass
	2595	Outer_Full	11.59	/	/	<=13	Pass
	2617.5	Outer_Full	11.63	/	/	<=13	Pass

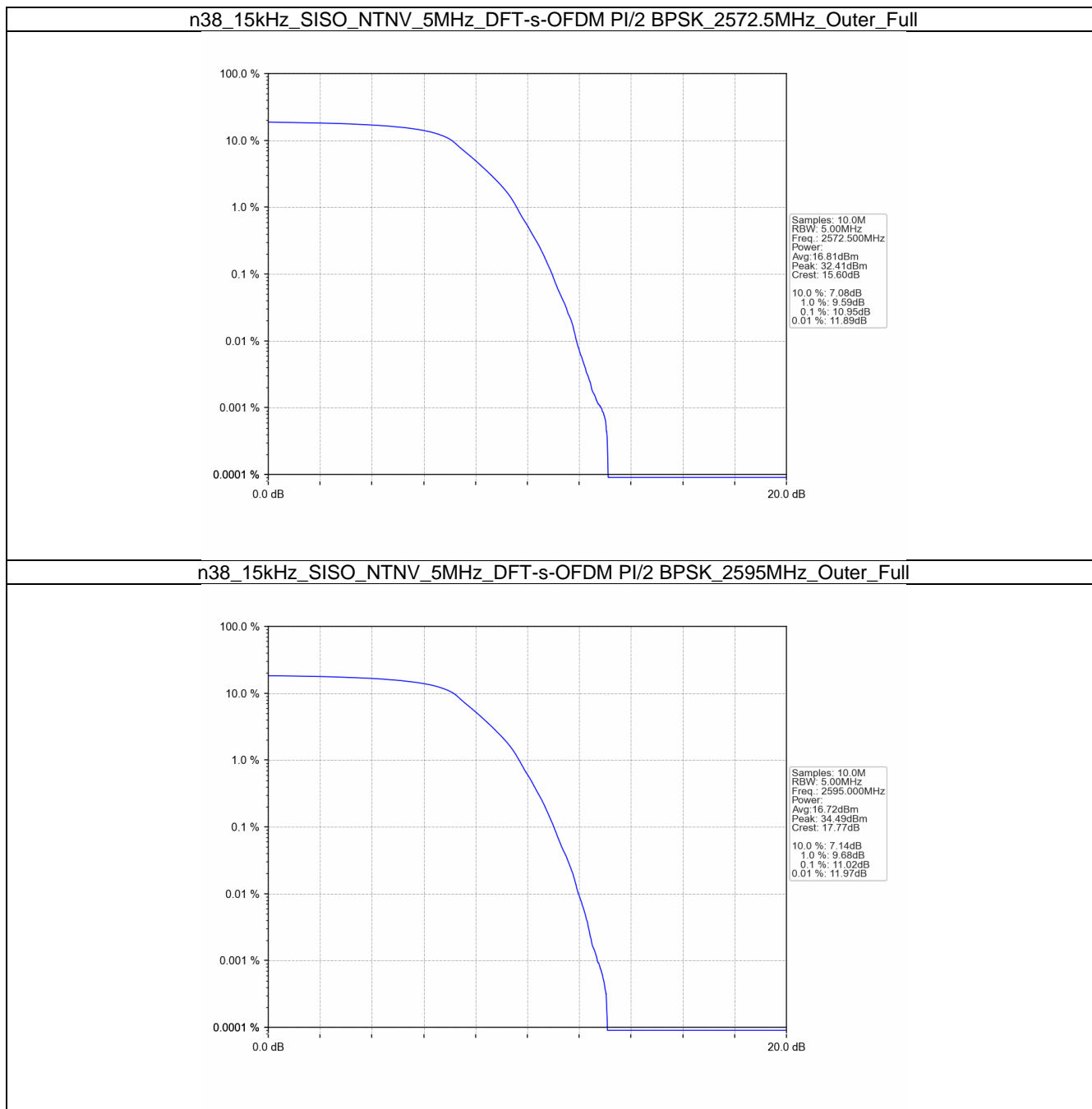


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5.1.2 Test Graph



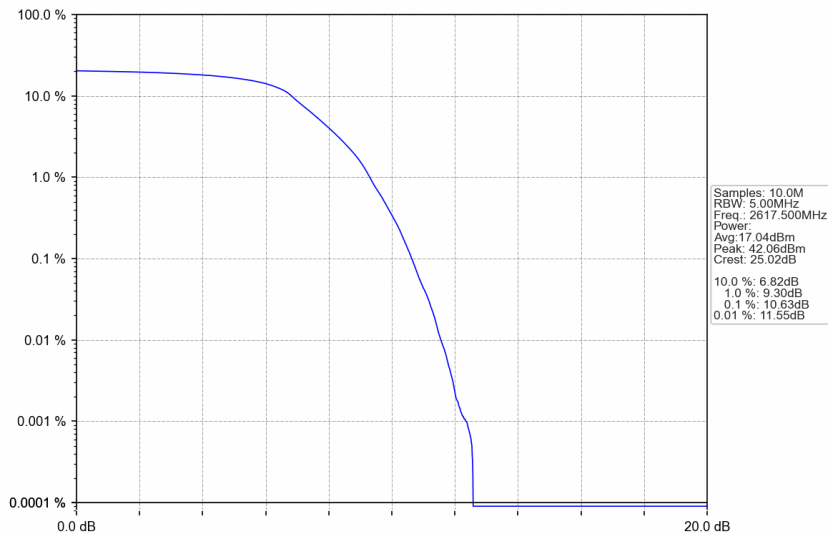
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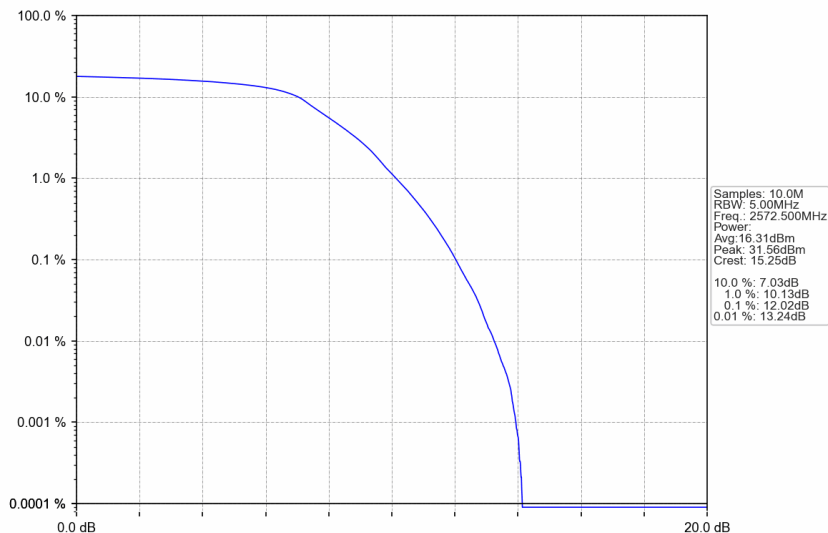
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Outer_Full

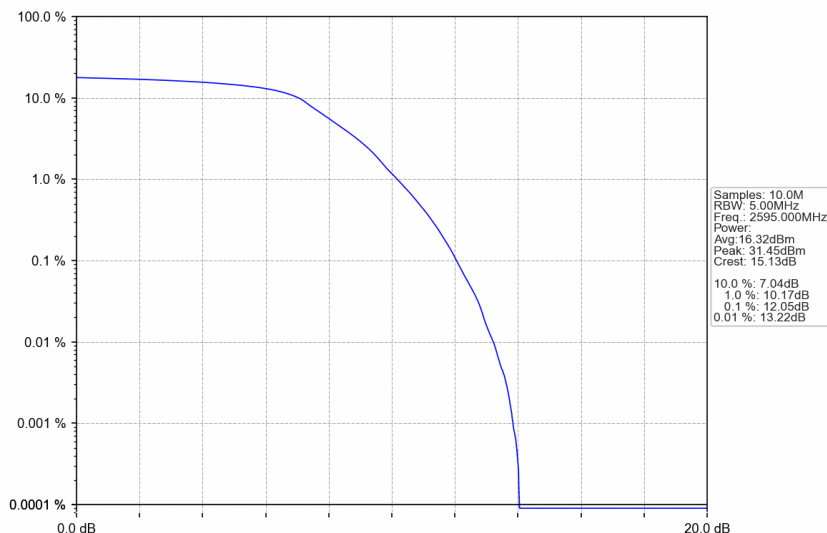


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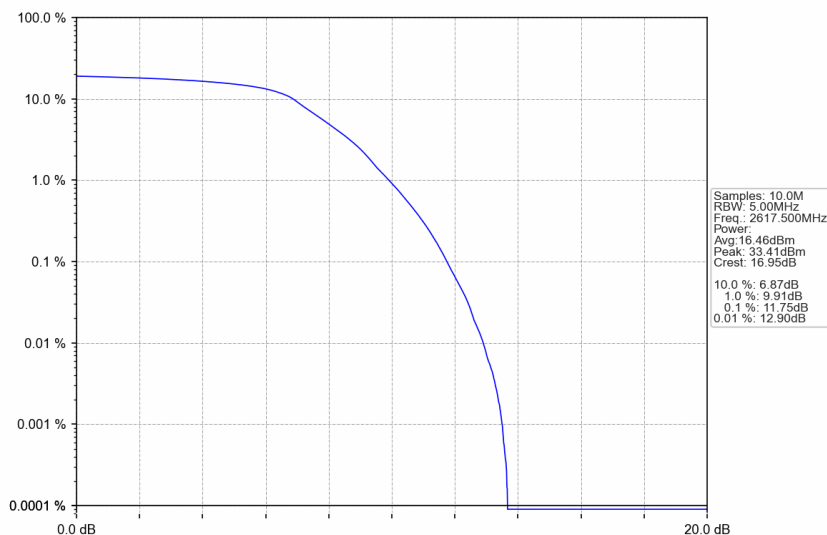
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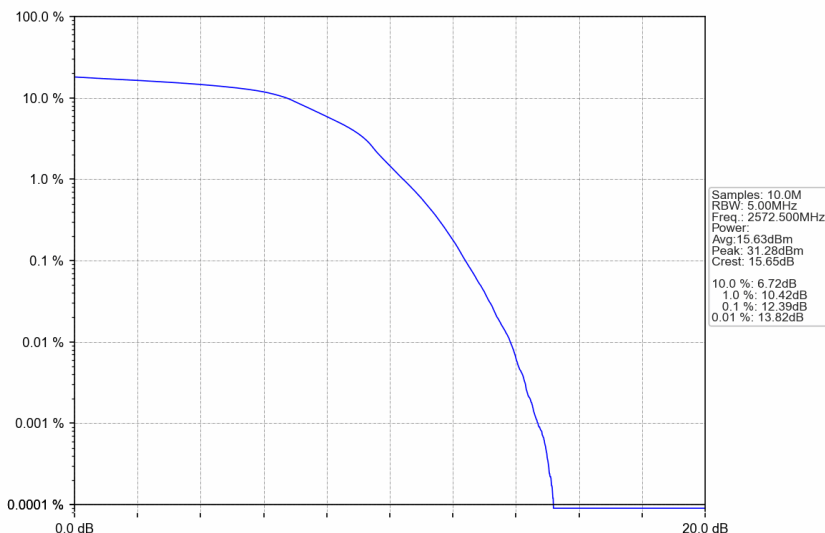
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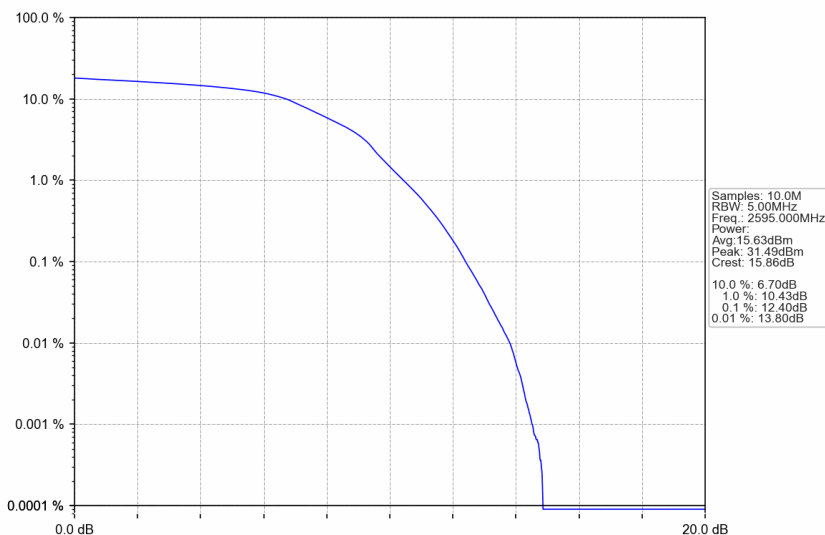
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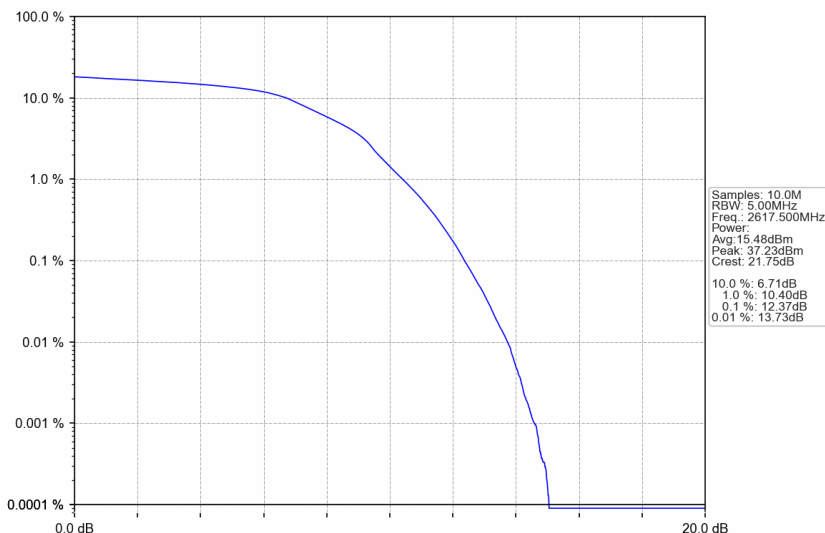


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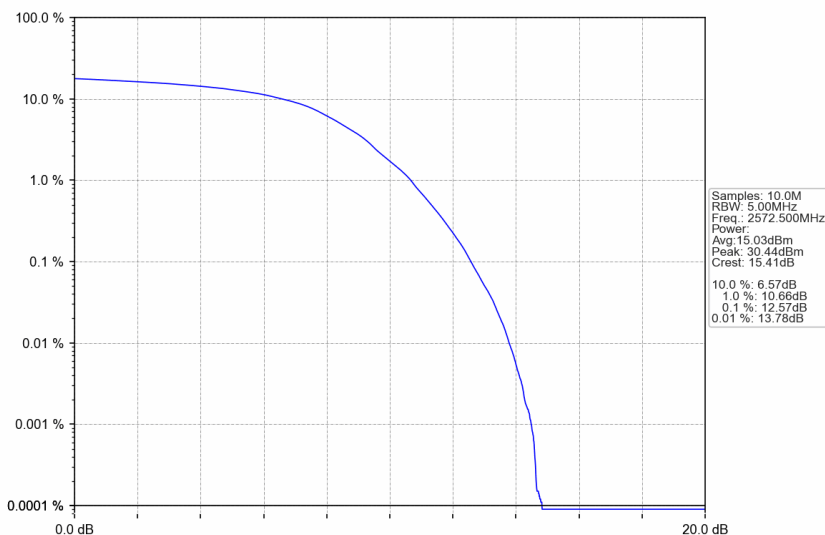
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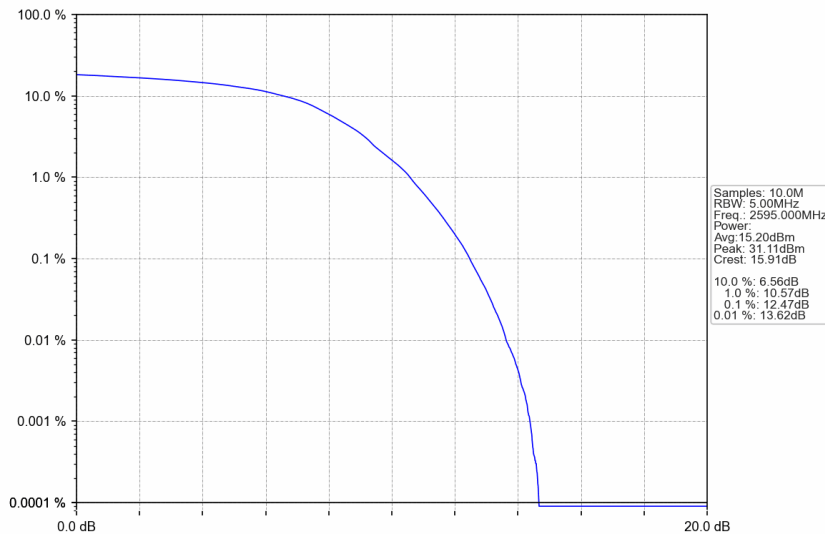


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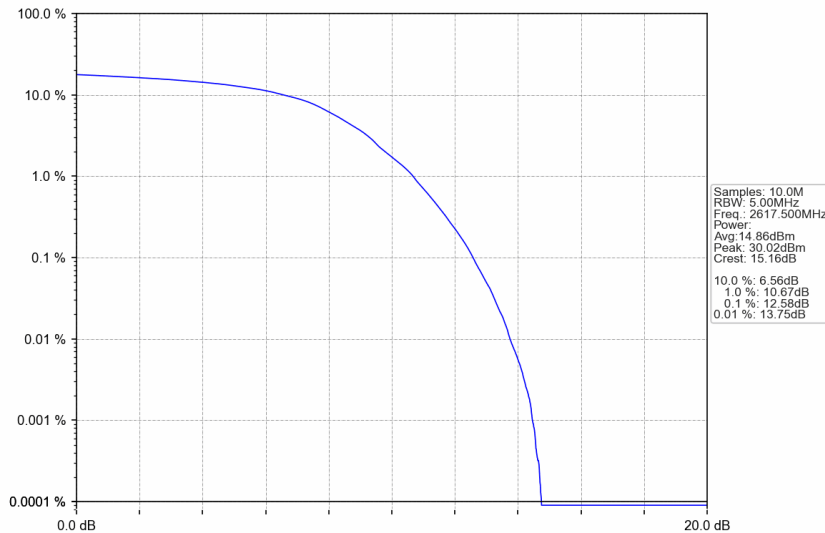
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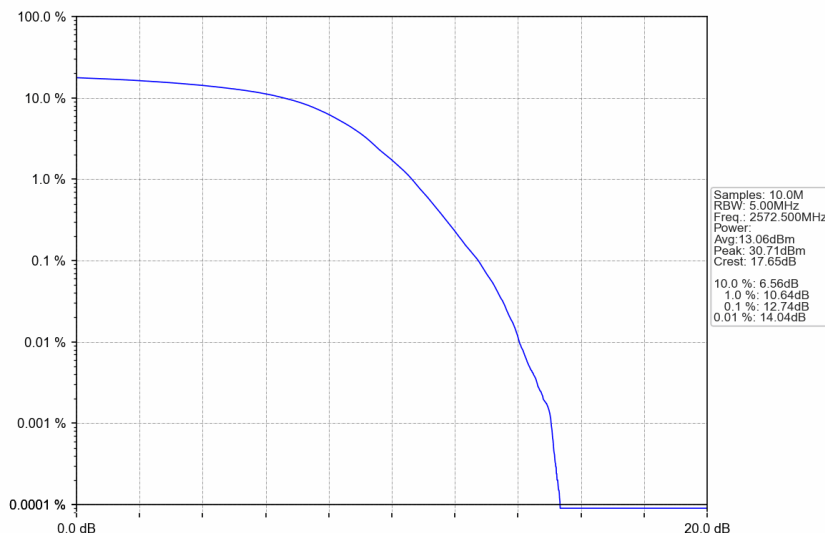
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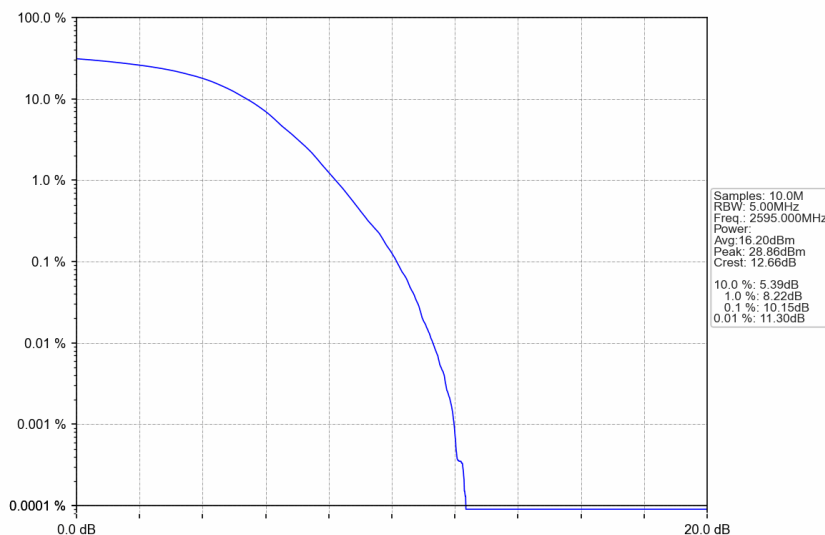
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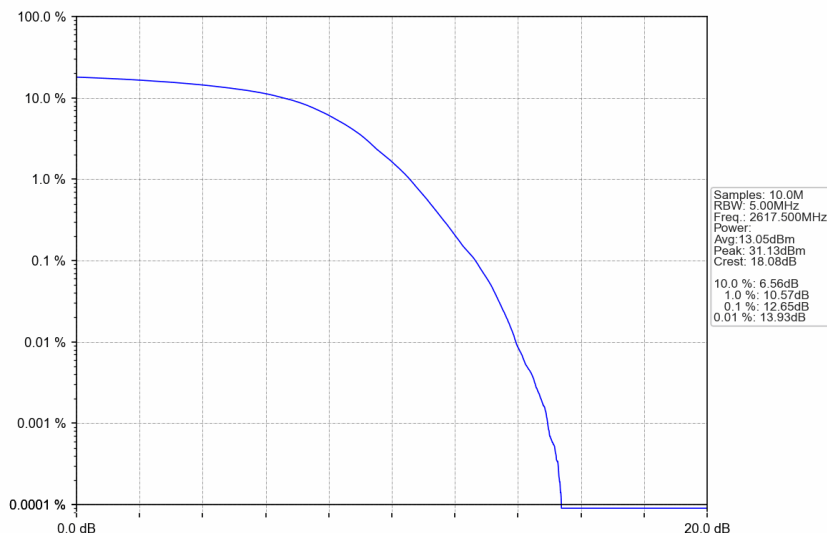
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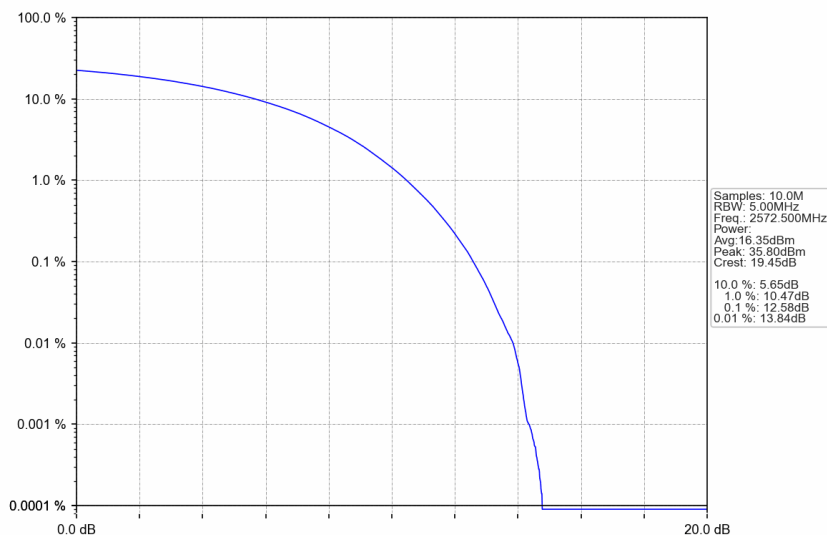
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2572.5MHz_Outer_Full

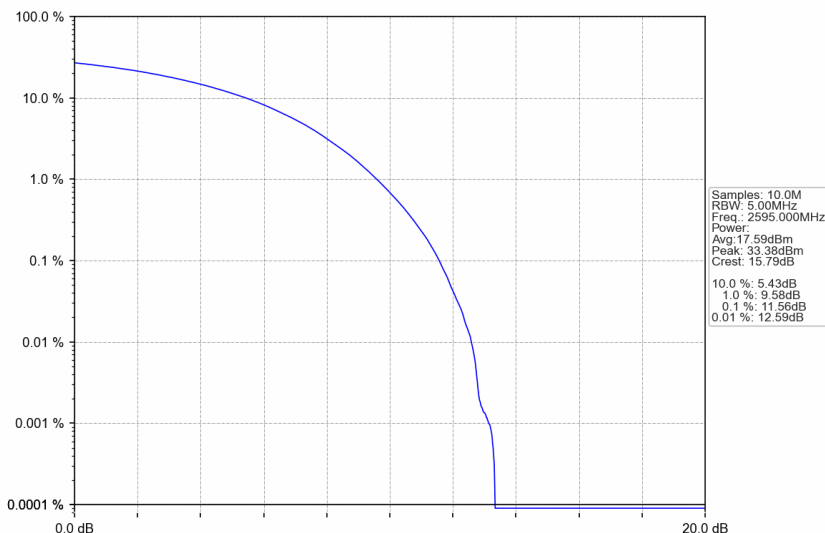


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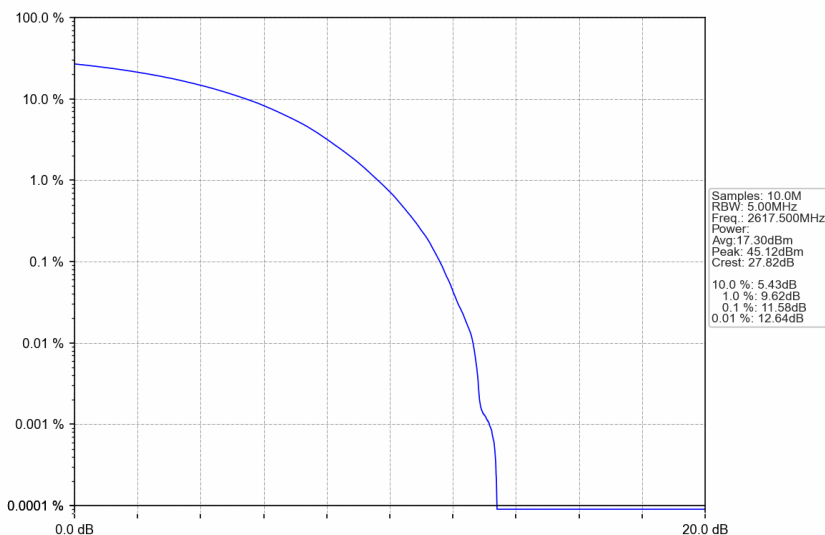
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2617.5MHz_Outer_Full



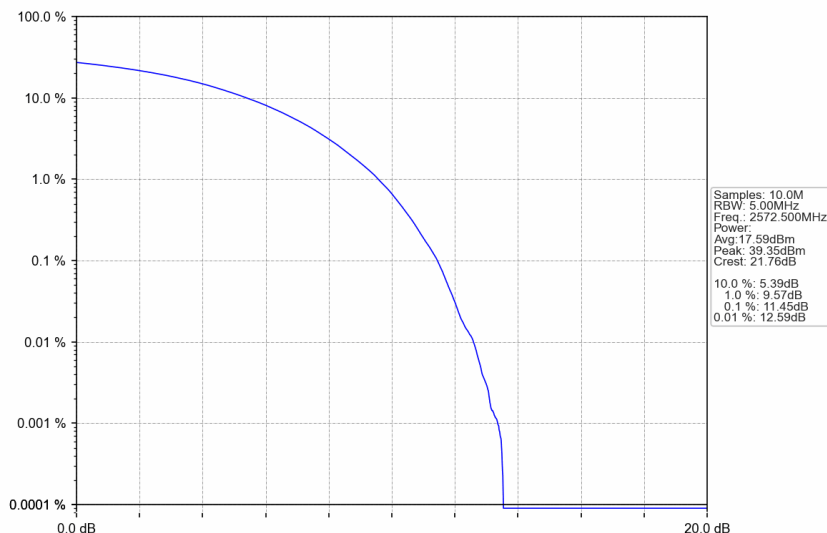
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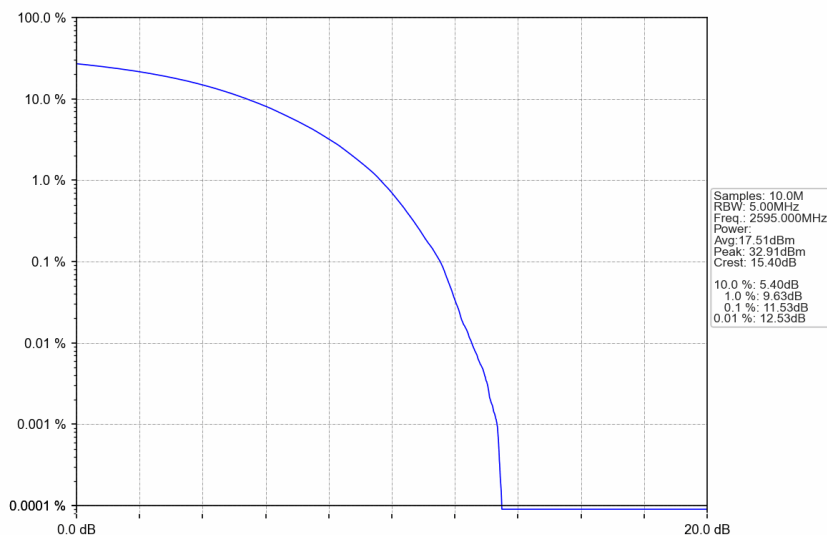
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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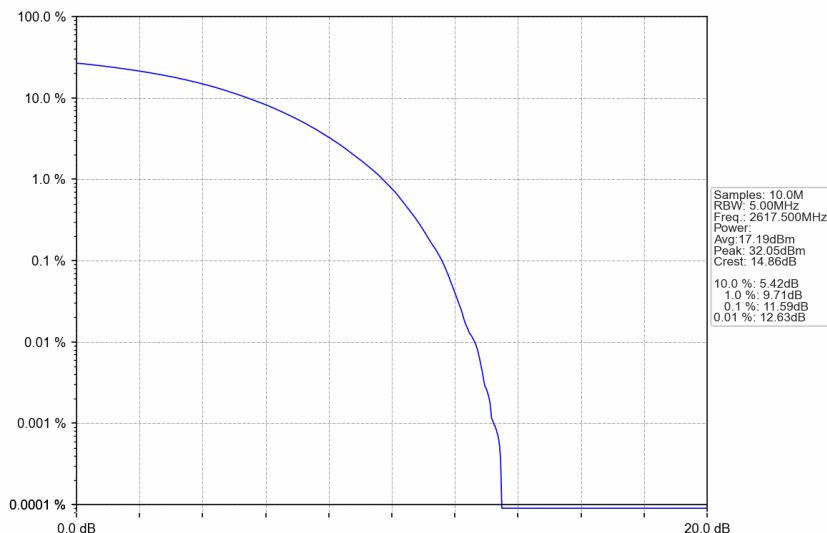
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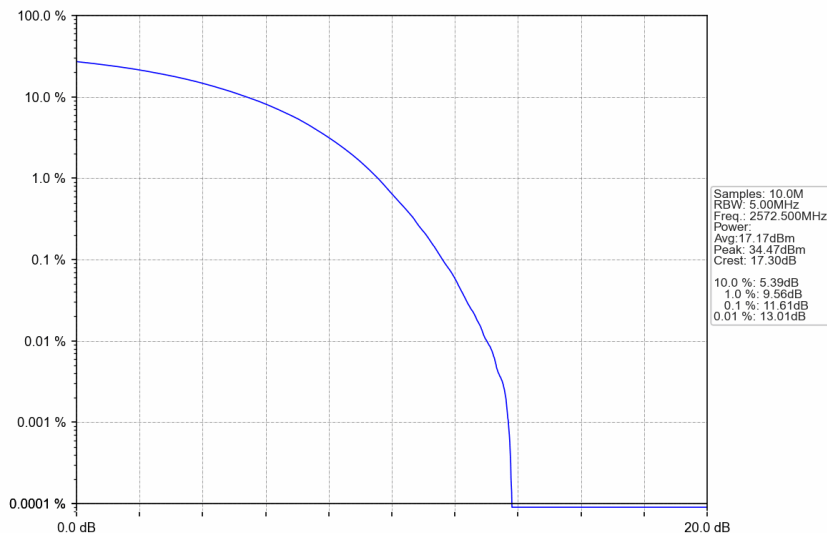
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2572.5MHz_Outer_Full



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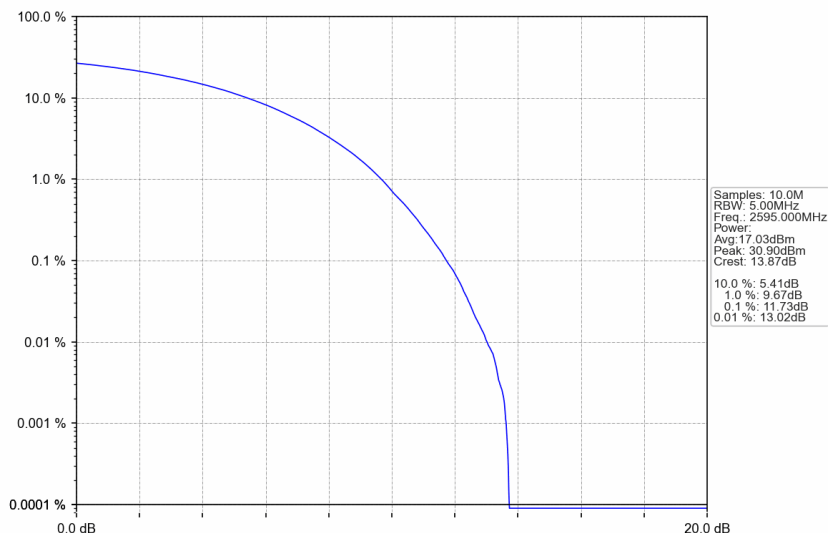


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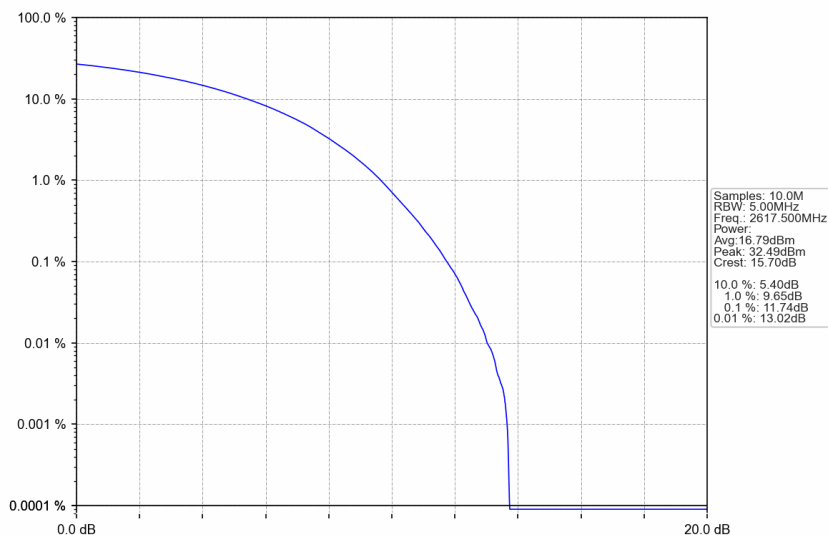
Rev.: 01

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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2617.5MHz_Outer_Full



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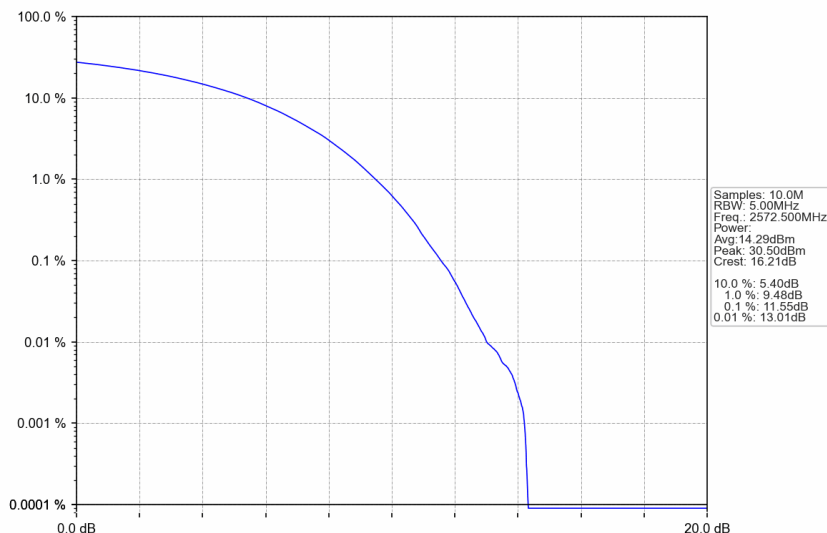
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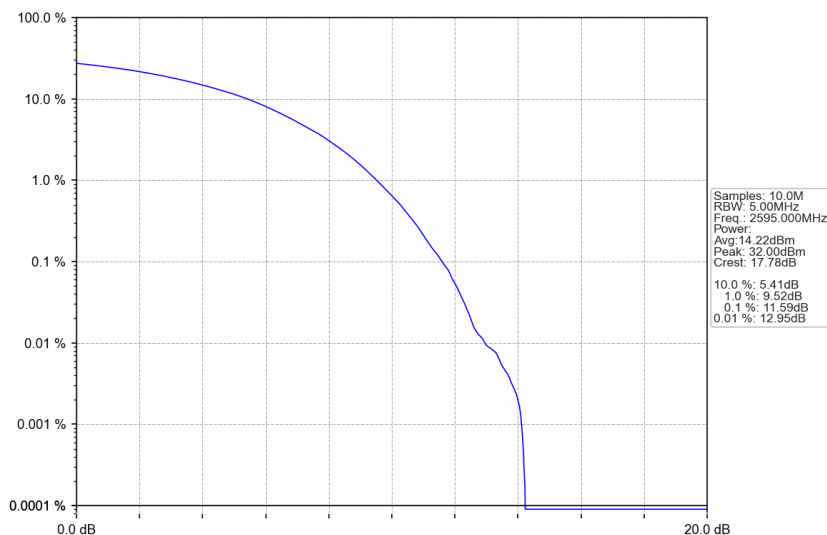
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