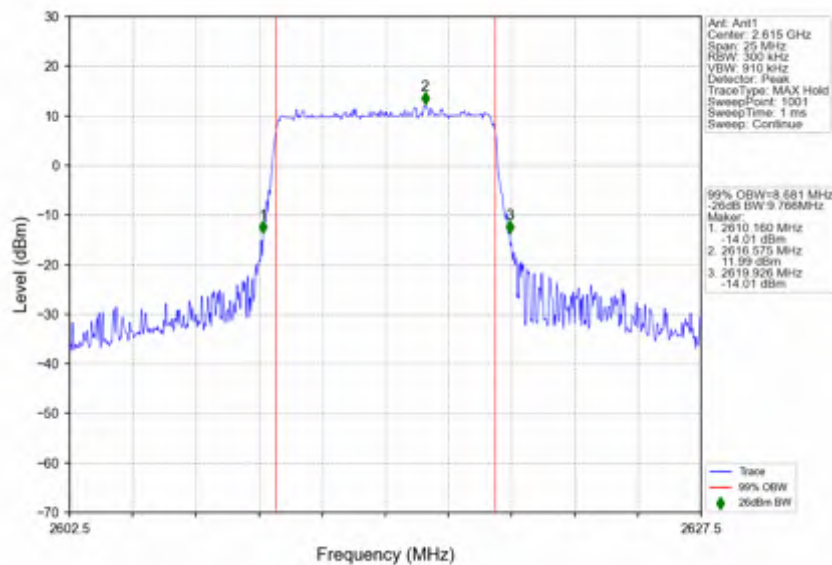
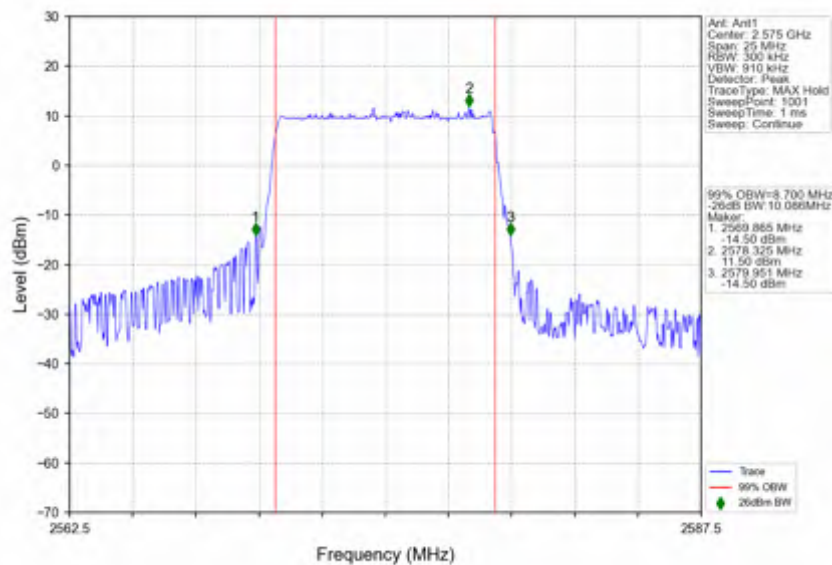


n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2575MHz_Outer_Full



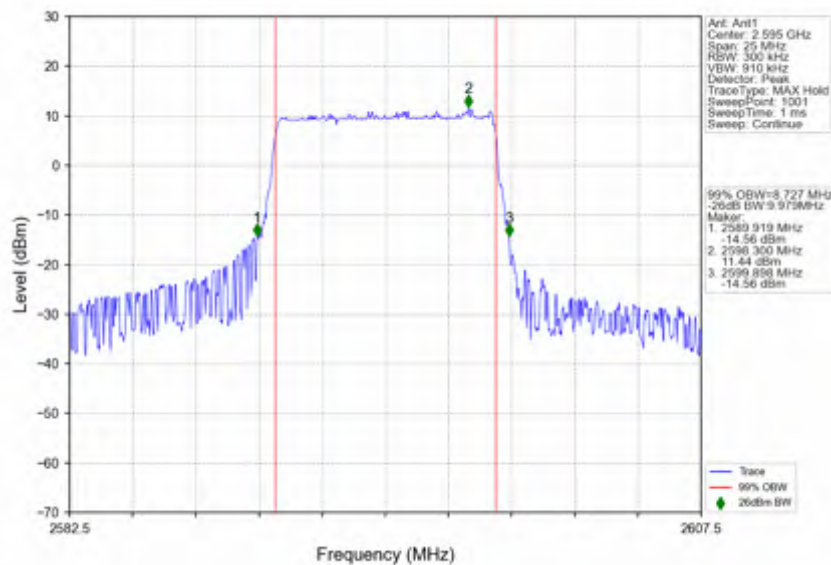
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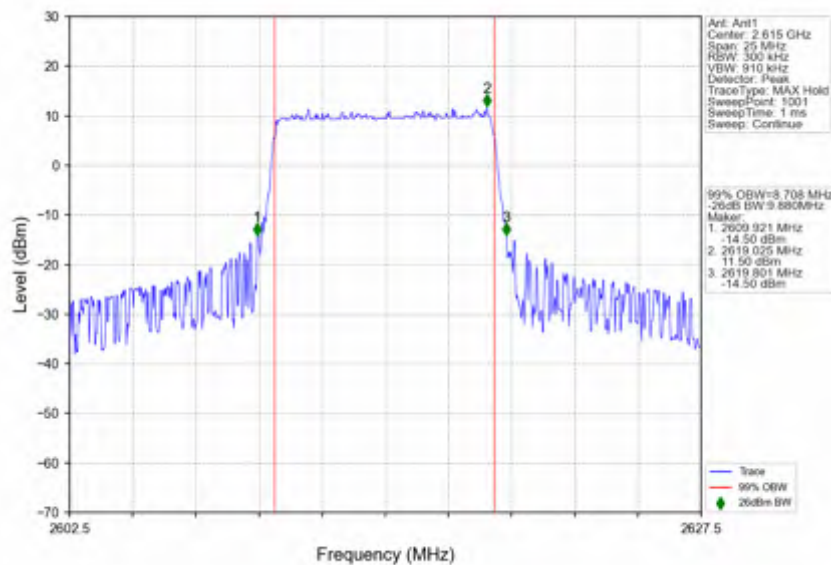
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2615MHz_Outer_Full



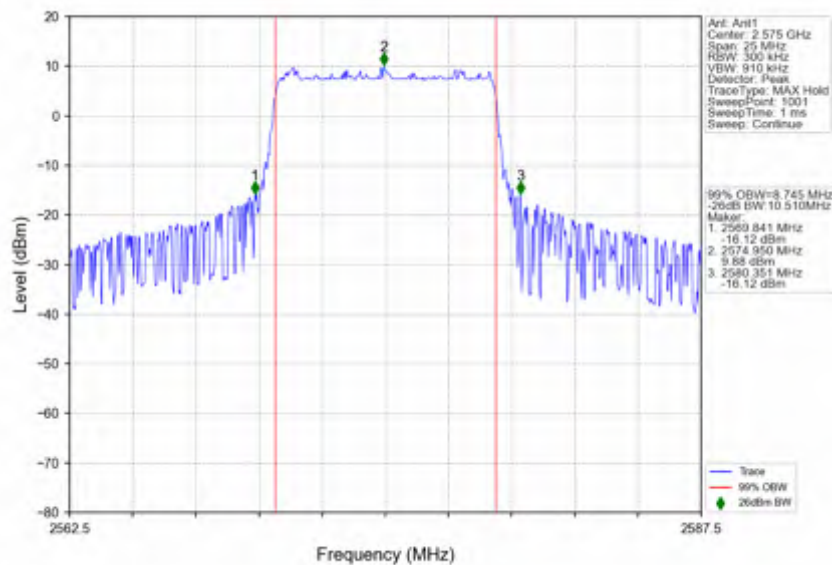
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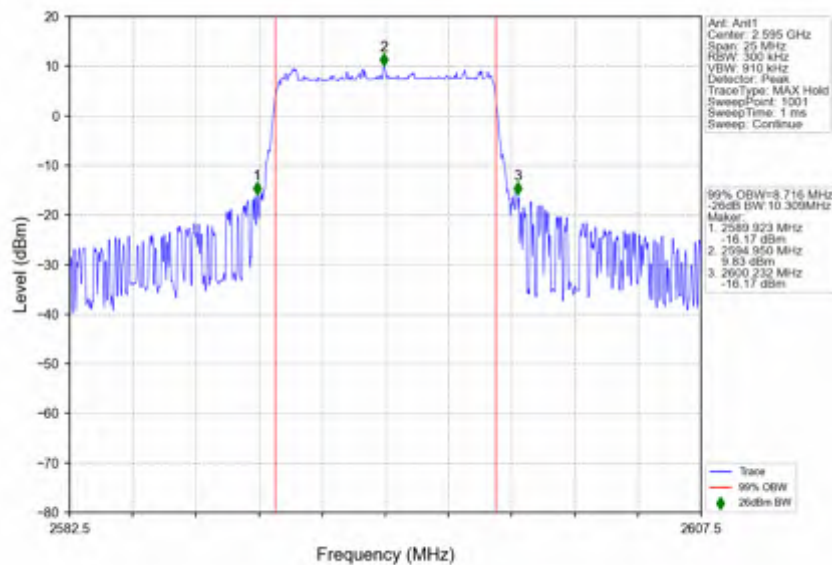
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n38 30kHz SISO NTN 10MHz DFT-s-OFDM 256 QAM 2575MHz Outer Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full

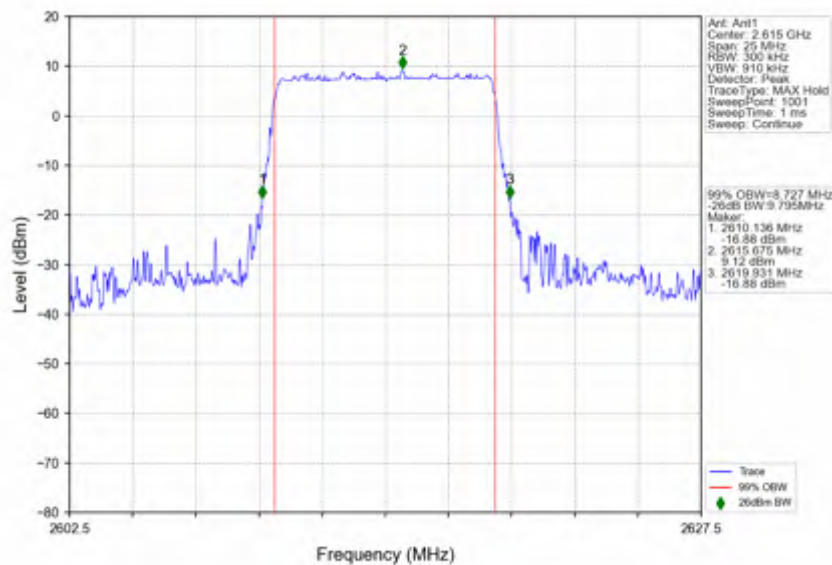


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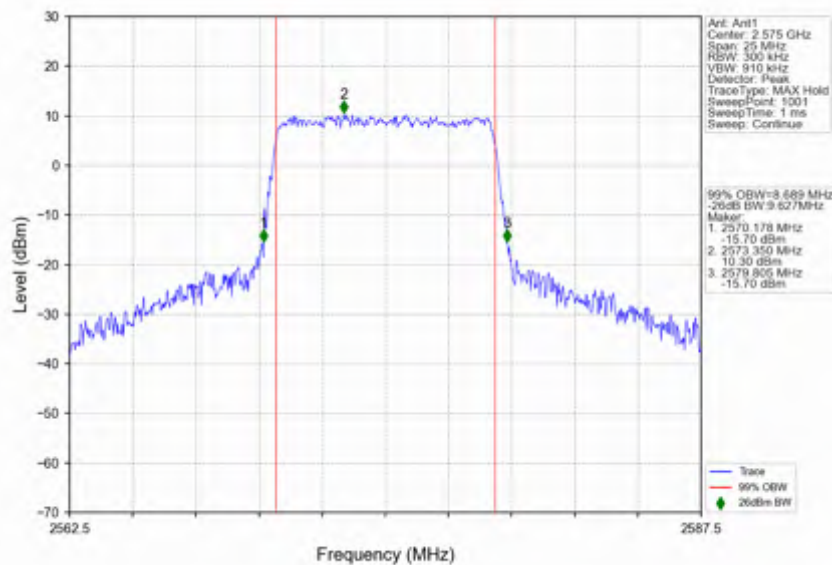
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM 2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK 2575MHz_Outer_Full



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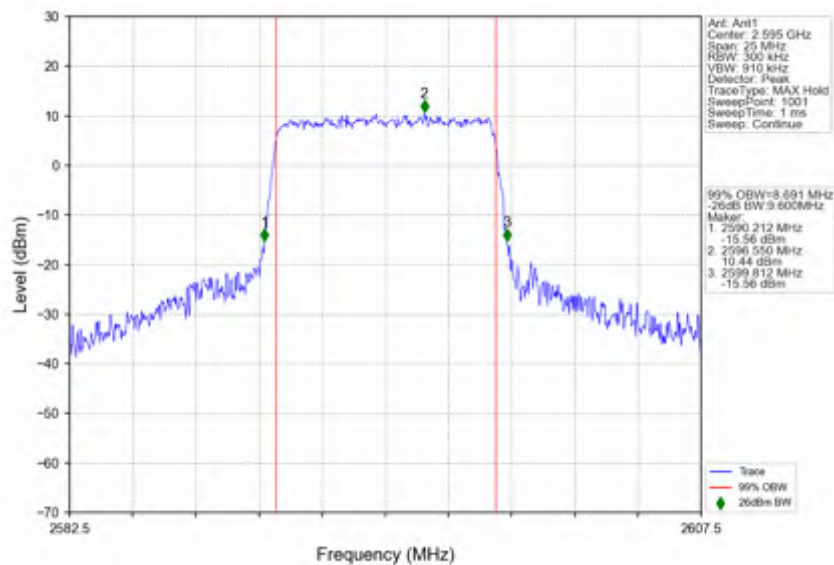
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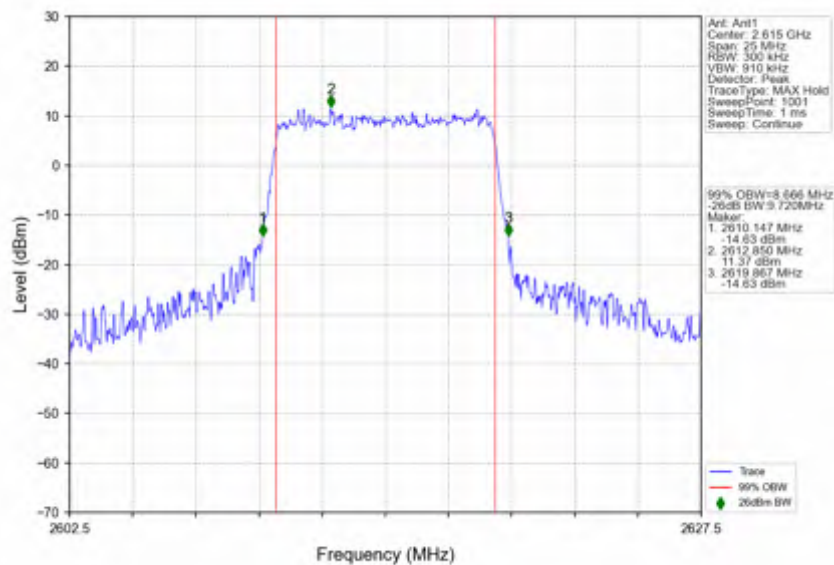
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2615MHz_Outer_Full



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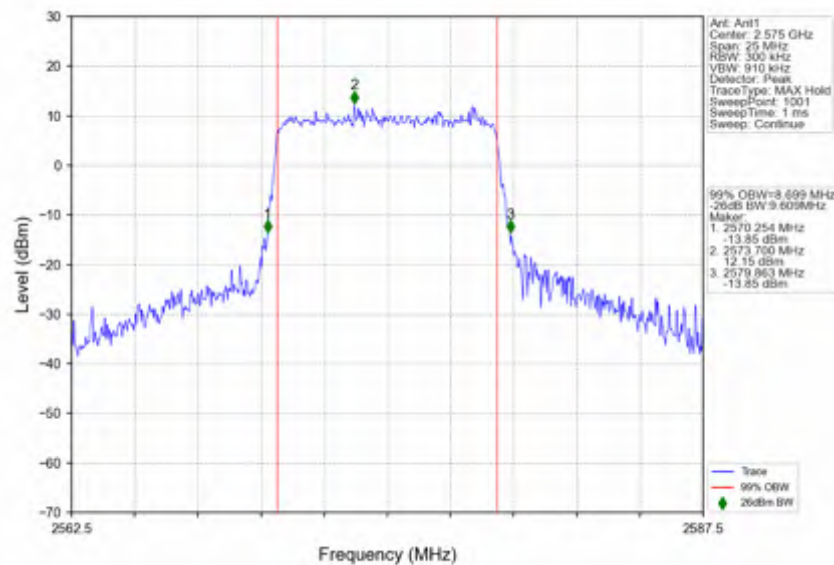
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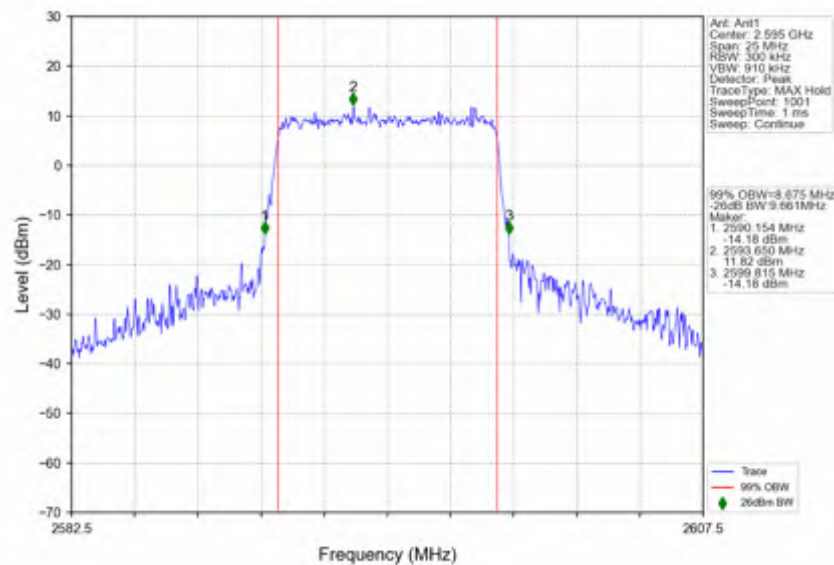
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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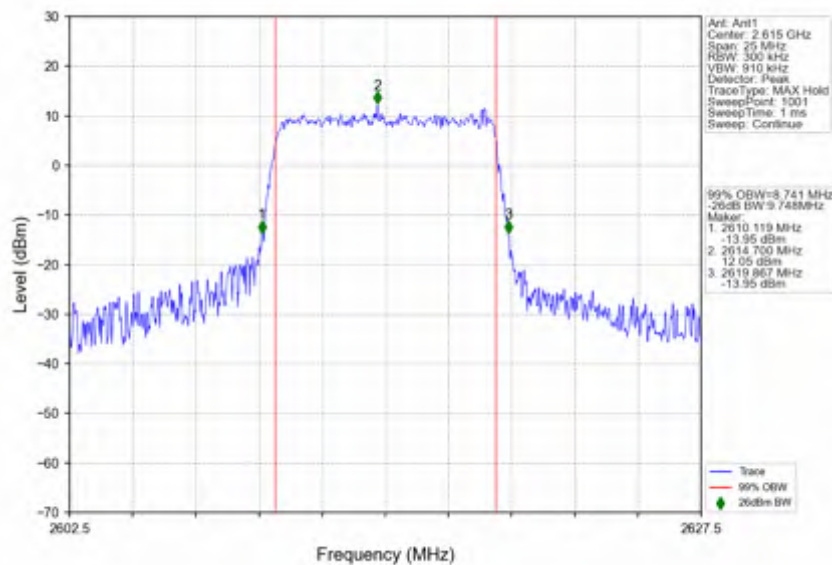
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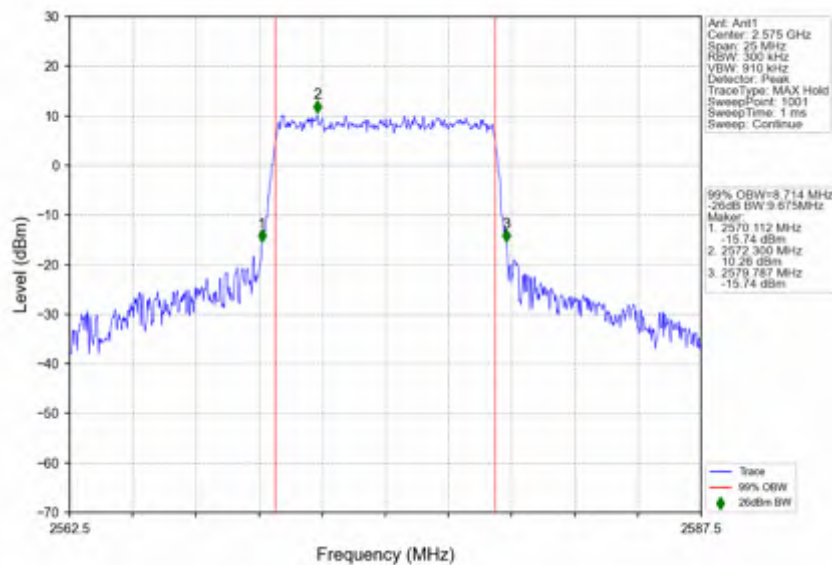
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2575MHz_Outer_Full



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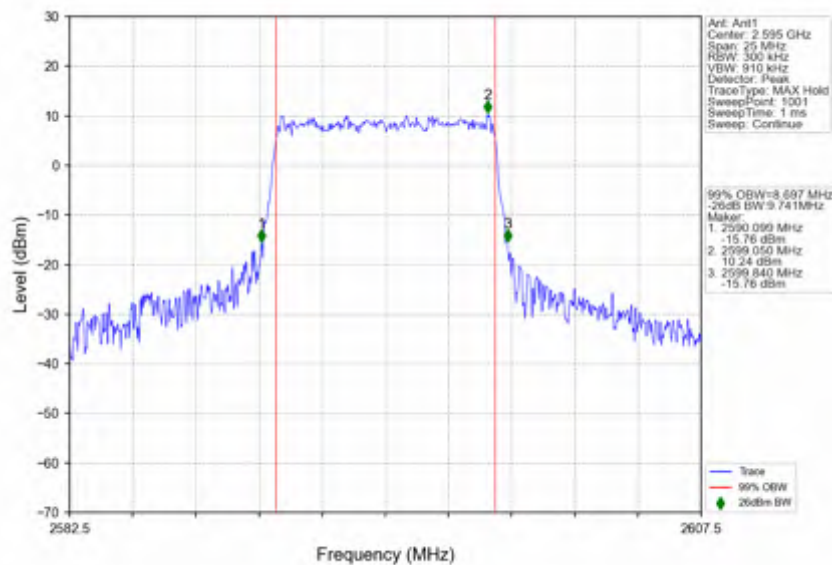
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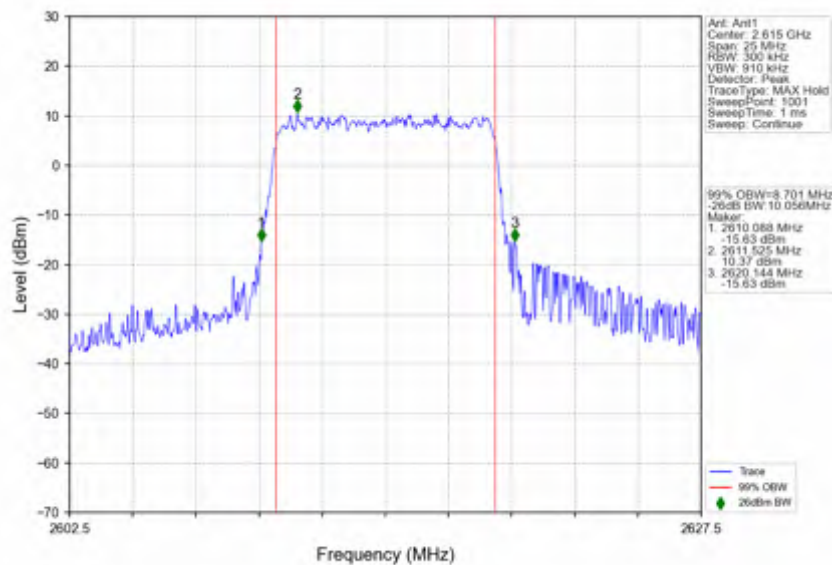
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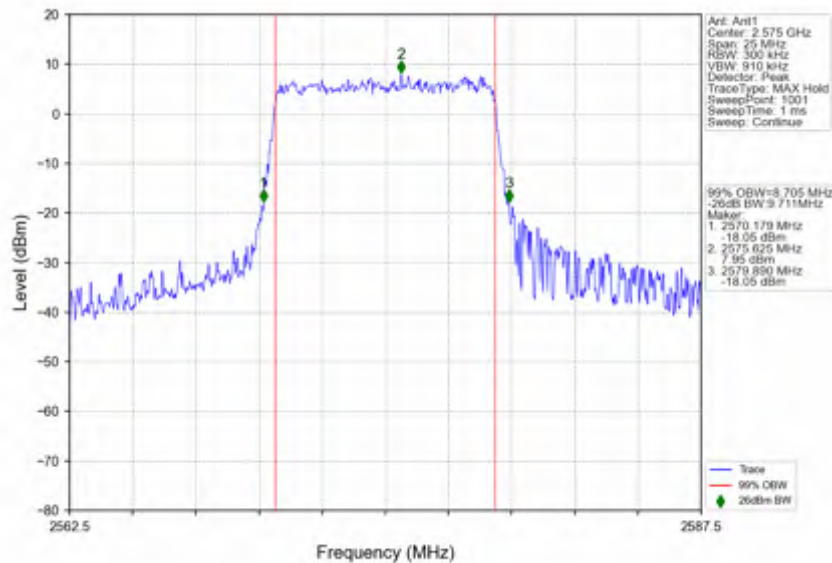
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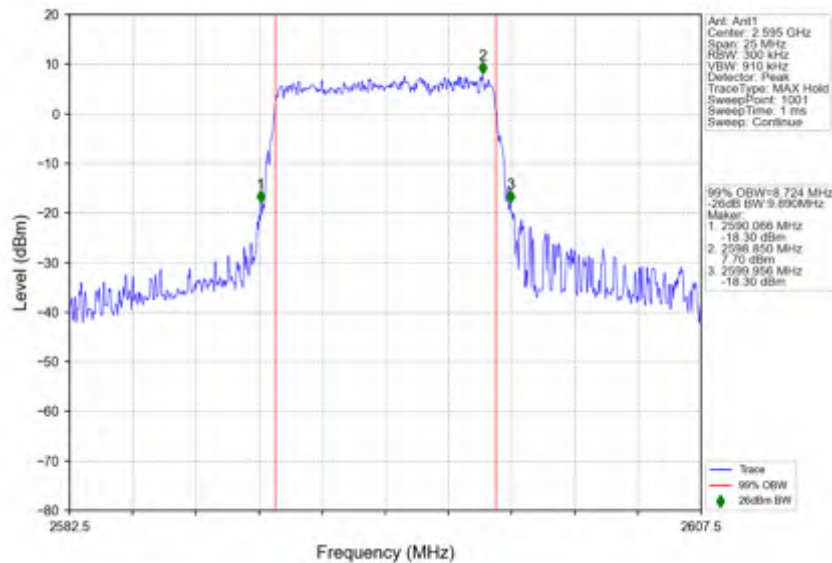
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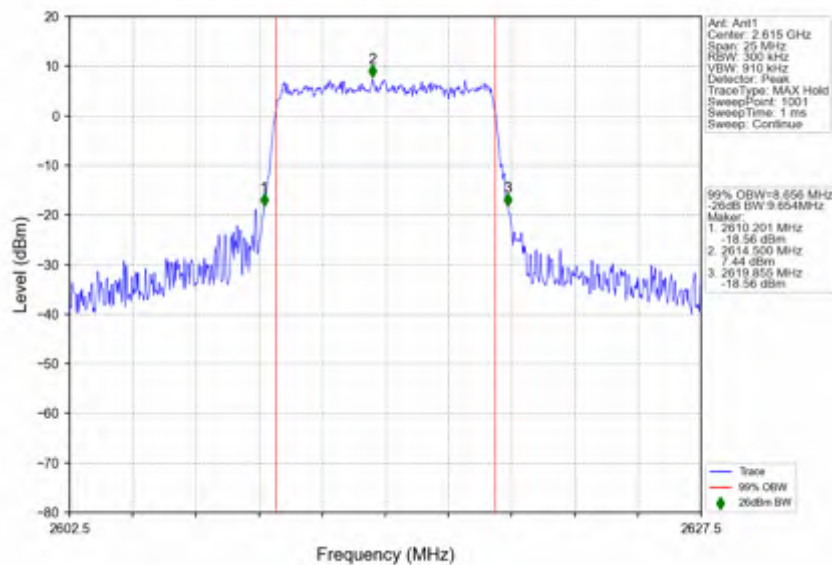
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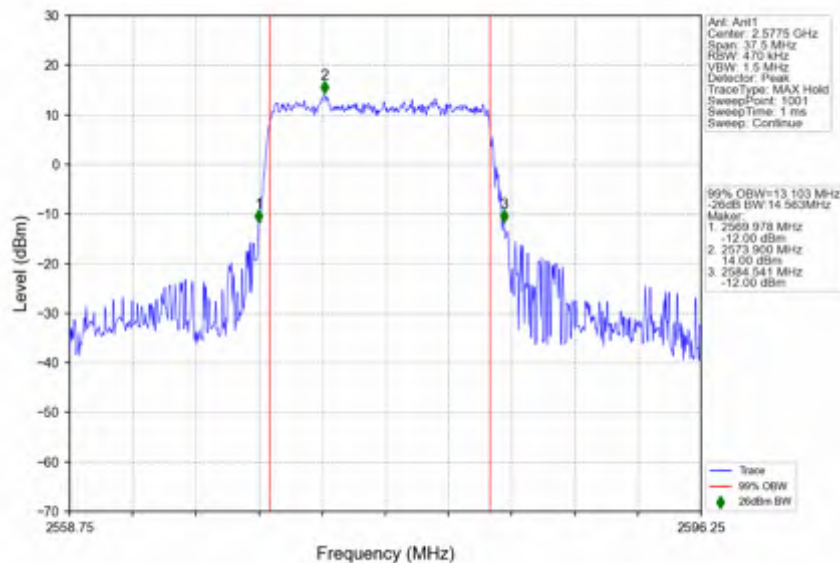
5.9 30k_SISO_15MHz_NTNV

5.9.1 Test Result

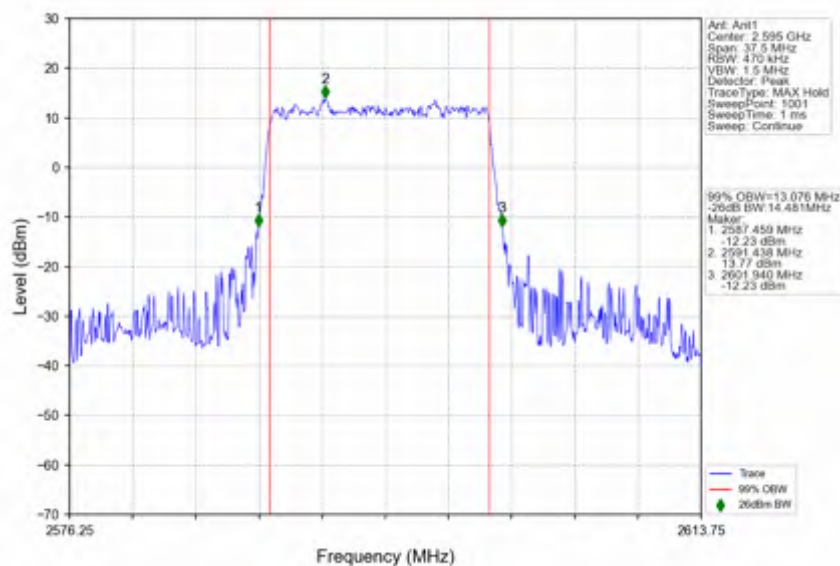
5G NR n38 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	13.10	14.56	/	Pass
	2595	Outer_Full	13.08	14.48	/	Pass
	2612.5	Outer_Full	13.10	14.71	/	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	13.06	14.30	/	Pass
	2595	Outer_Full	13.09	14.45	/	Pass
	2612.5	Outer_Full	13.10	14.52	/	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	13.05	14.72	/	Pass
	2595	Outer_Full	13.10	14.41	/	Pass
	2612.5	Outer_Full	13.04	14.39	/	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	13.11	14.47	/	Pass
	2595	Outer_Full	13.08	14.52	/	Pass
	2612.5	Outer_Full	13.09	14.48	/	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	13.07	14.46	/	Pass
	2595	Outer_Full	13.03	15.05	/	Pass
	2612.5	Outer_Full	13.04	14.62	/	Pass
CP-OFDM QPSK	2577.5	Outer_Full	13.73	15.26	/	Pass
	2595	Outer_Full	13.77	15.04	/	Pass
	2612.5	Outer_Full	13.77	15.14	/	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	13.71	14.94	/	Pass
	2595	Outer_Full	13.69	14.97	/	Pass
	2612.5	Outer_Full	13.67	14.94	/	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	13.71	15.11	/	Pass
	2595	Outer_Full	13.73	15.00	/	Pass
	2612.5	Outer_Full	13.70	15.12	/	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	13.70	14.99	/	Pass
	2595	Outer_Full	13.73	15.34	/	Pass
	2612.5	Outer_Full	13.75	14.91	/	Pass

5.9.2 Test Graph

n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



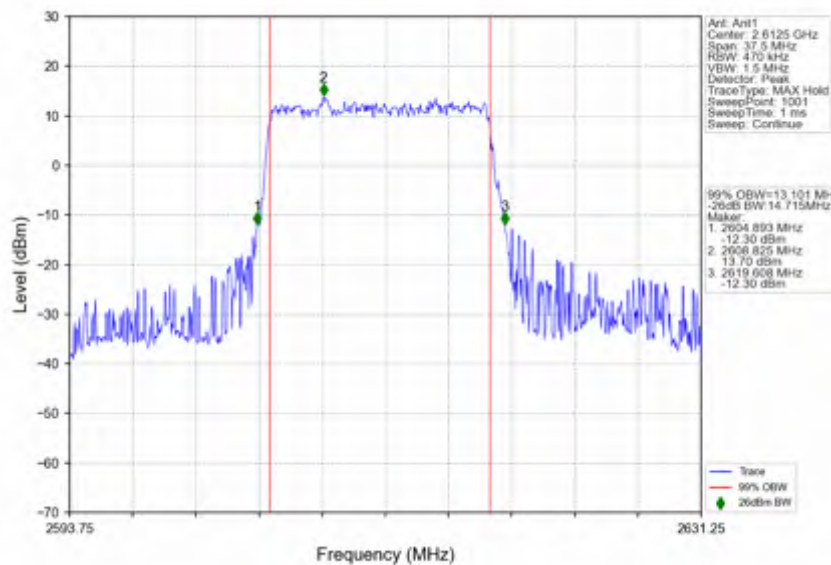
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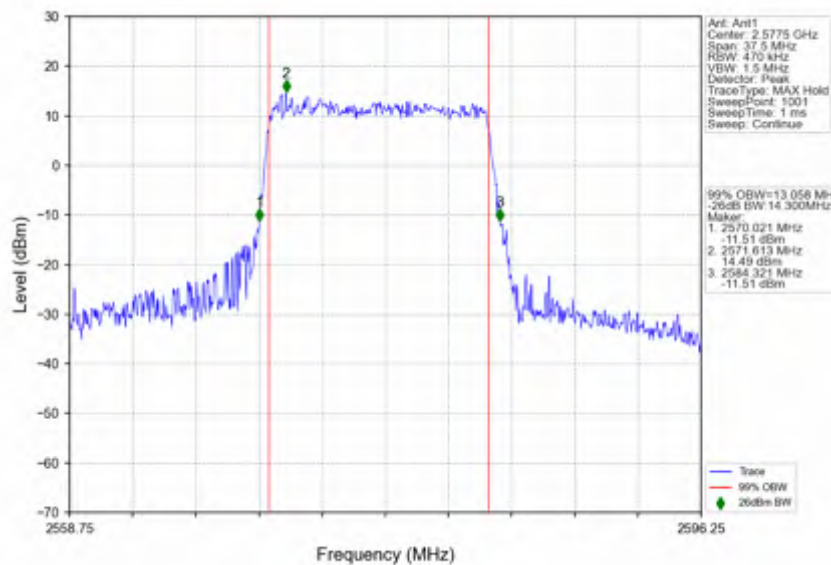
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2612.5MHz_Outer_Full



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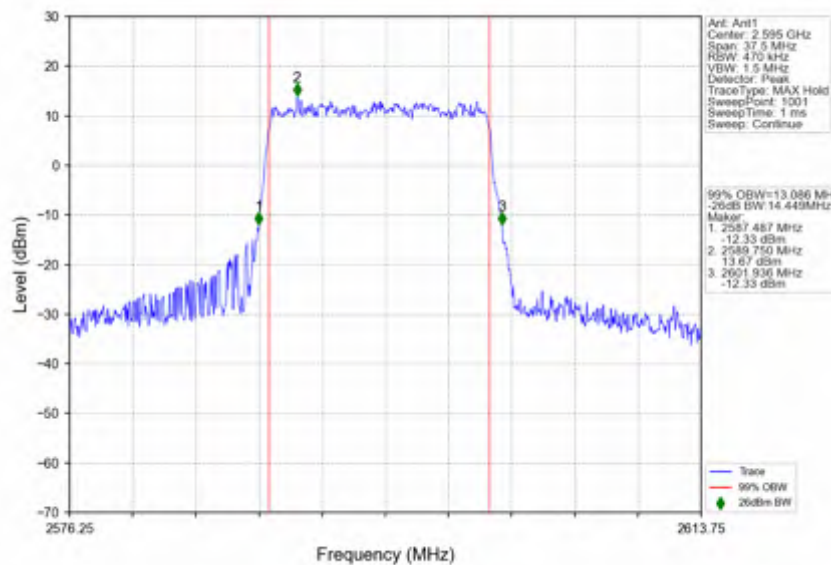
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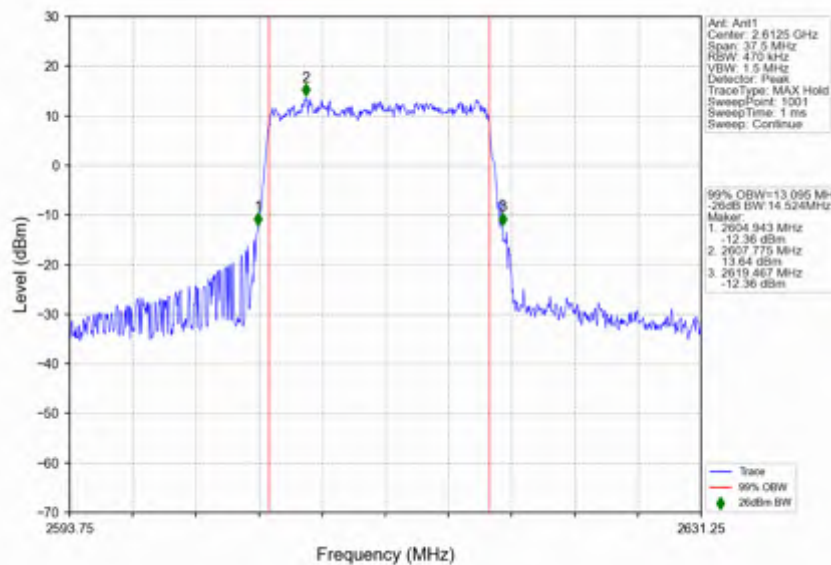
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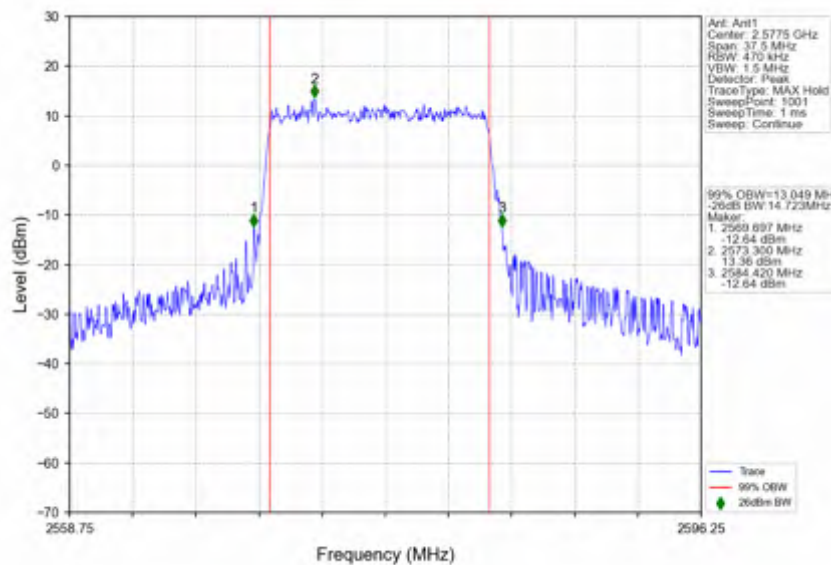
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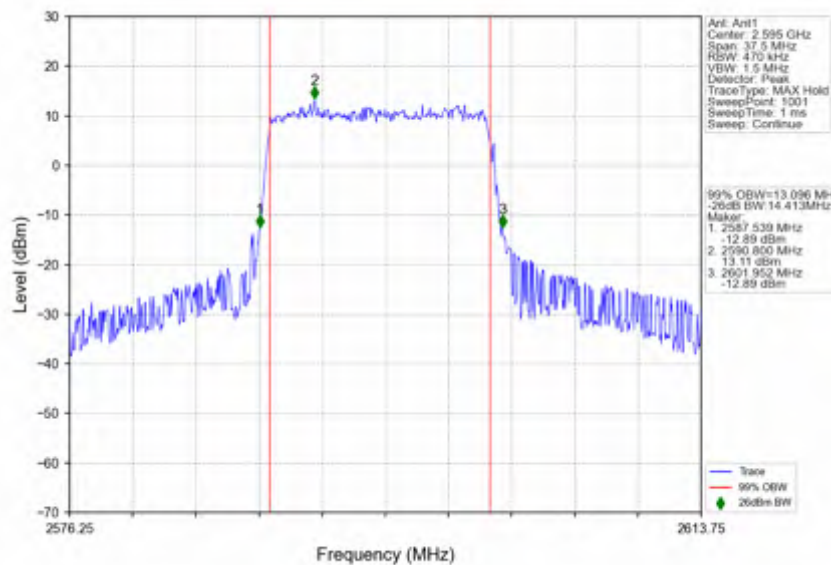
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2577.5MHz_Outer_Full



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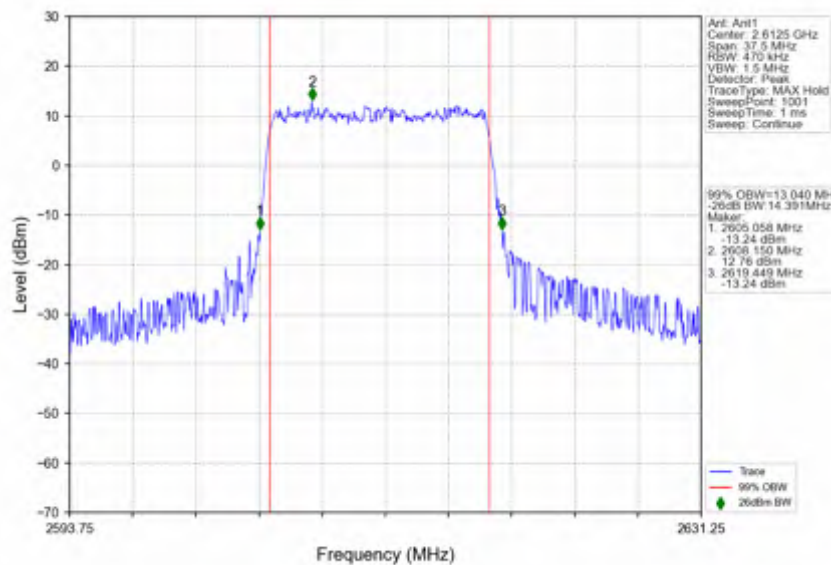
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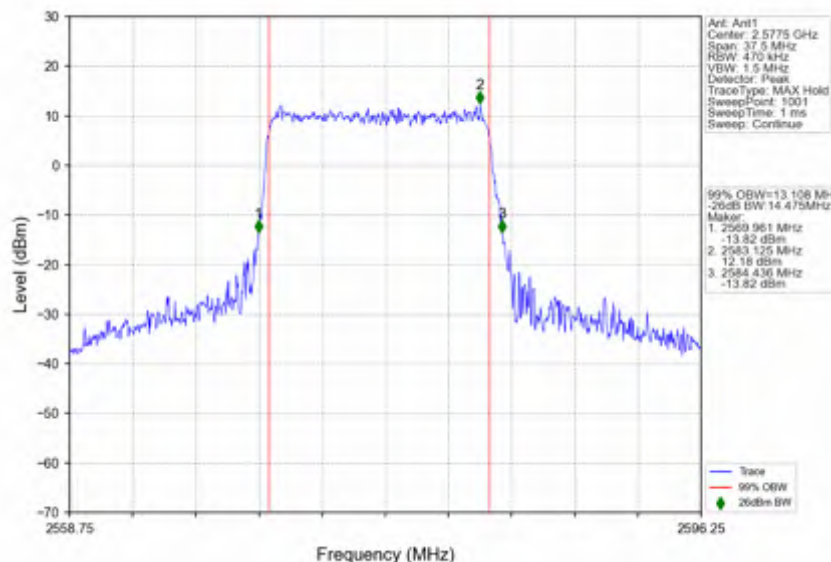
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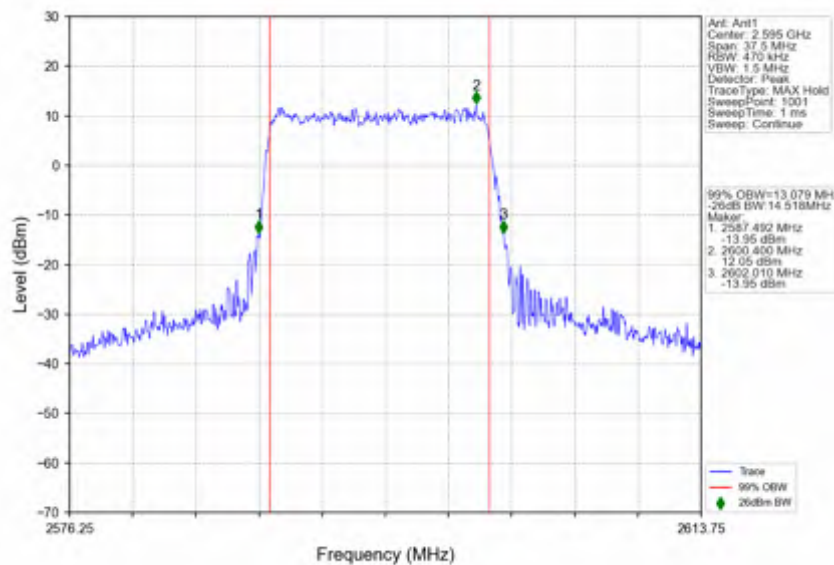
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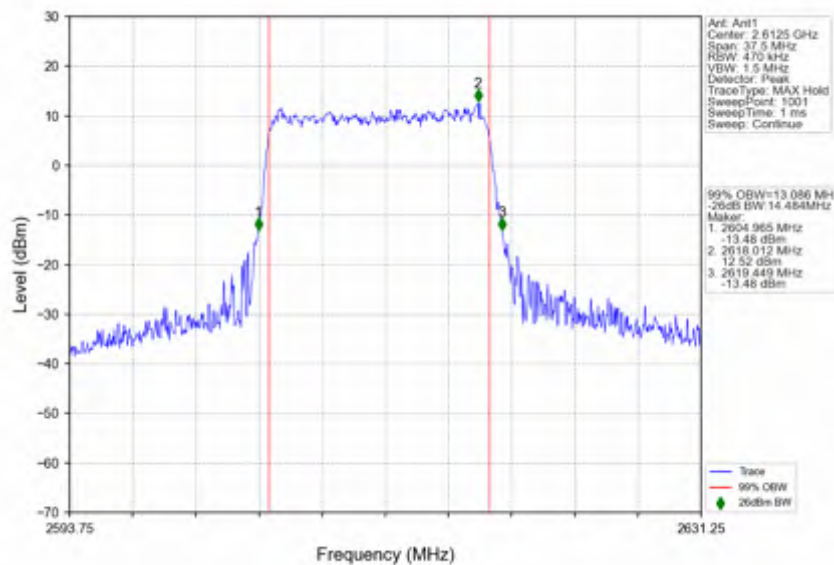
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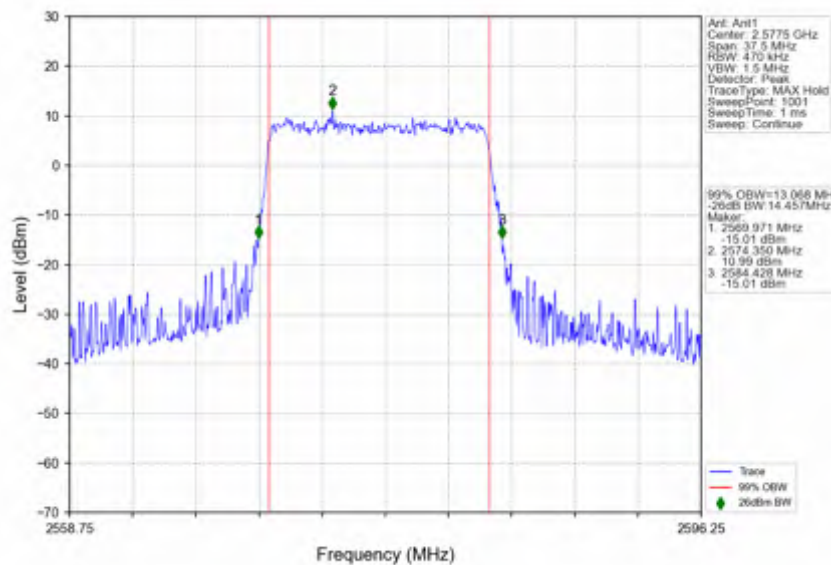
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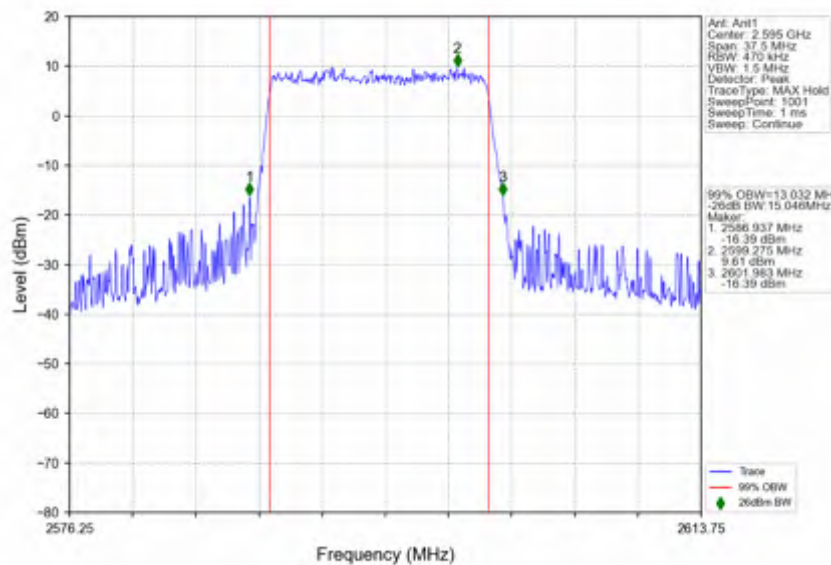
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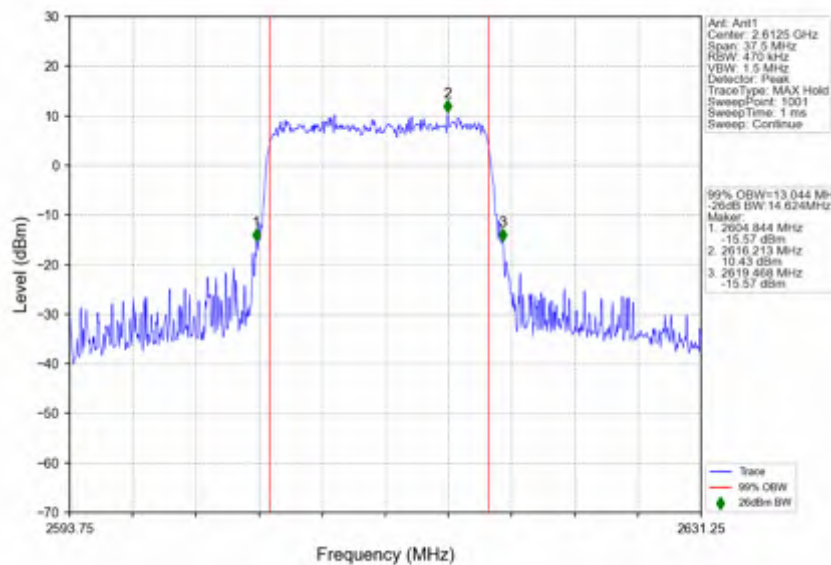
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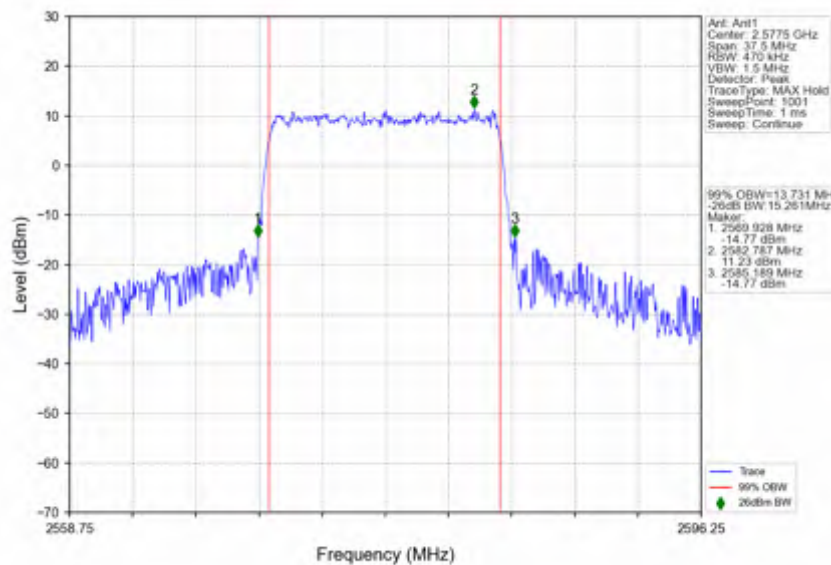
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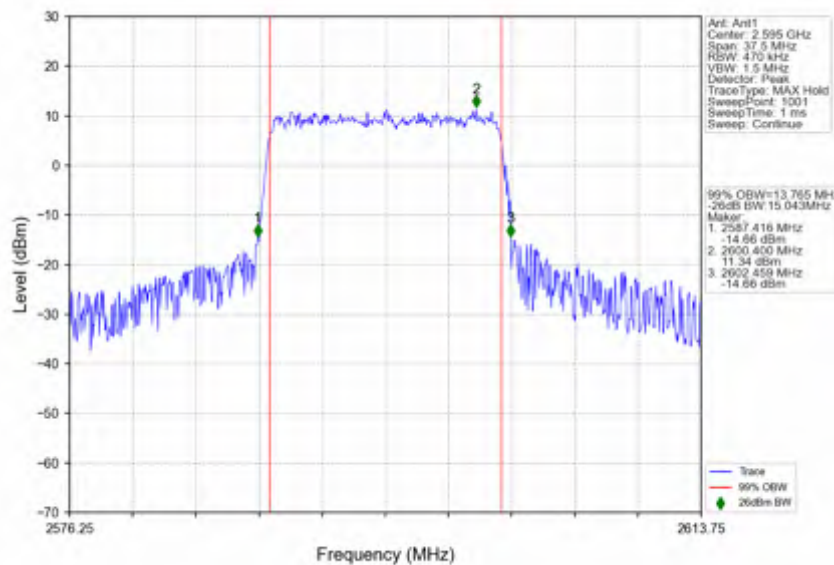
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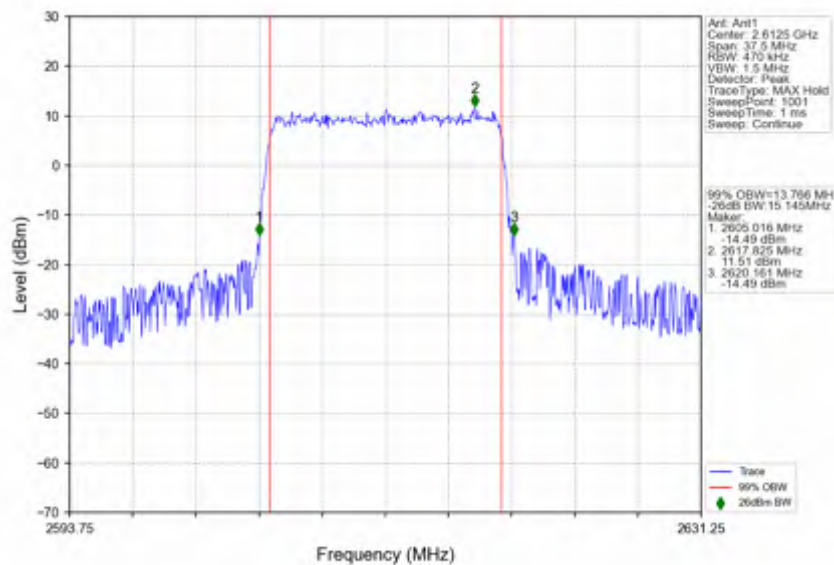
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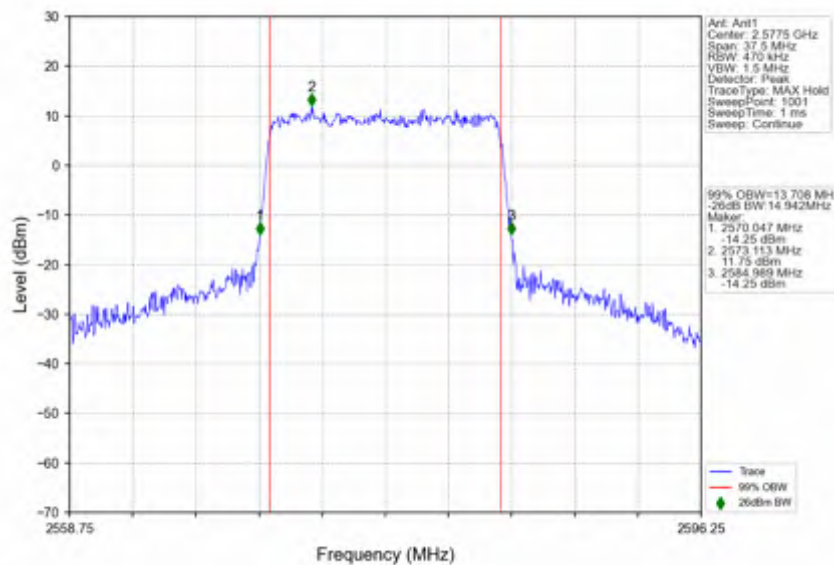
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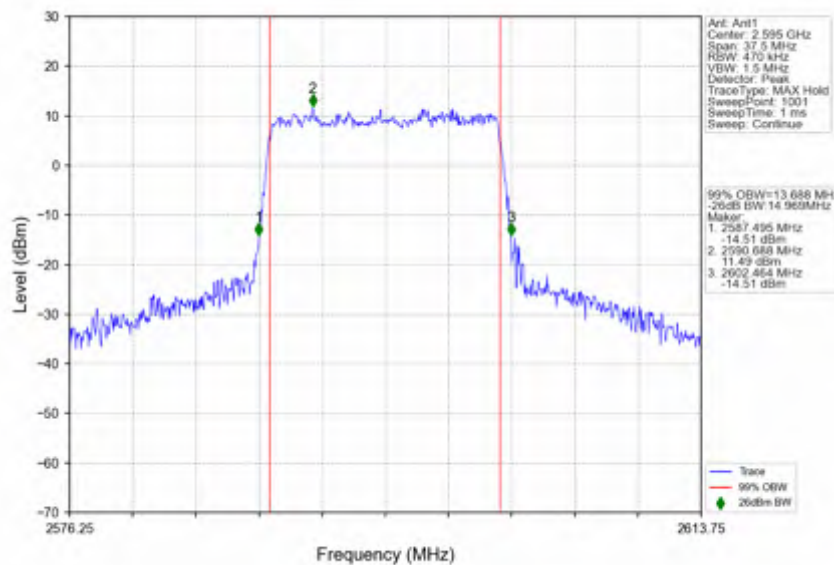
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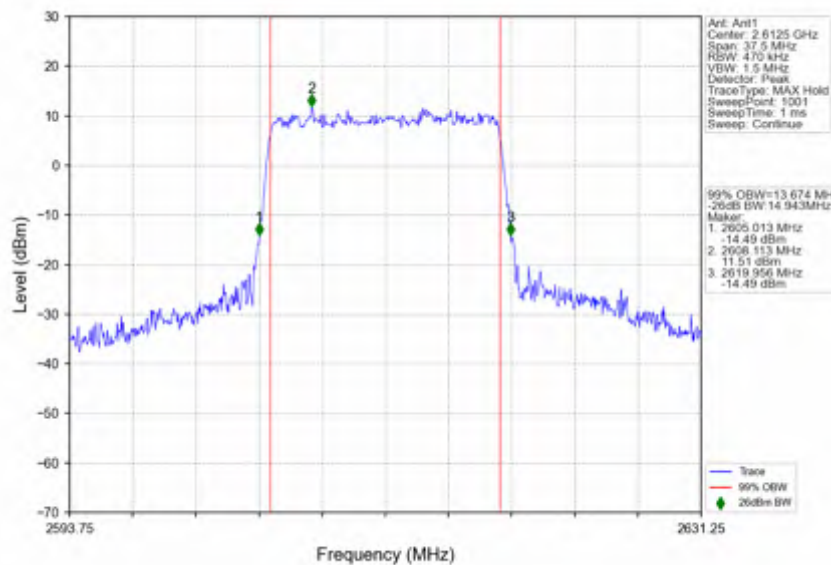
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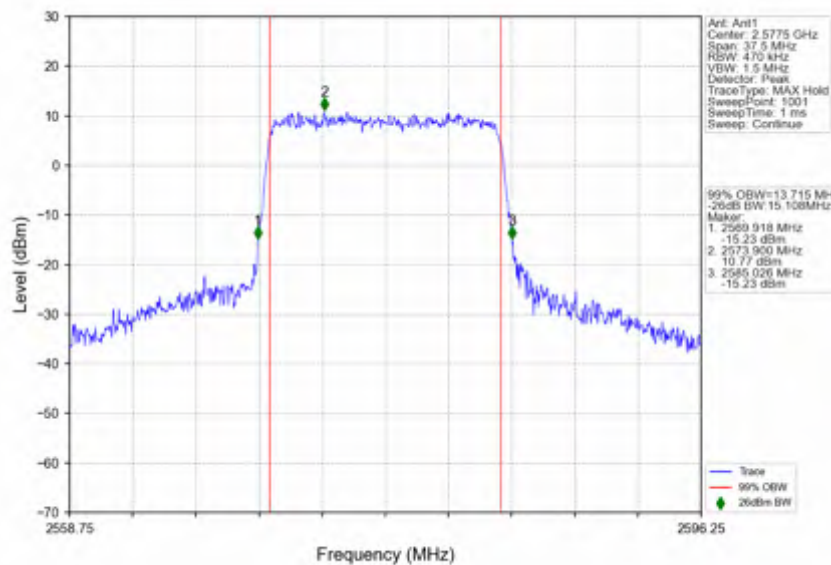
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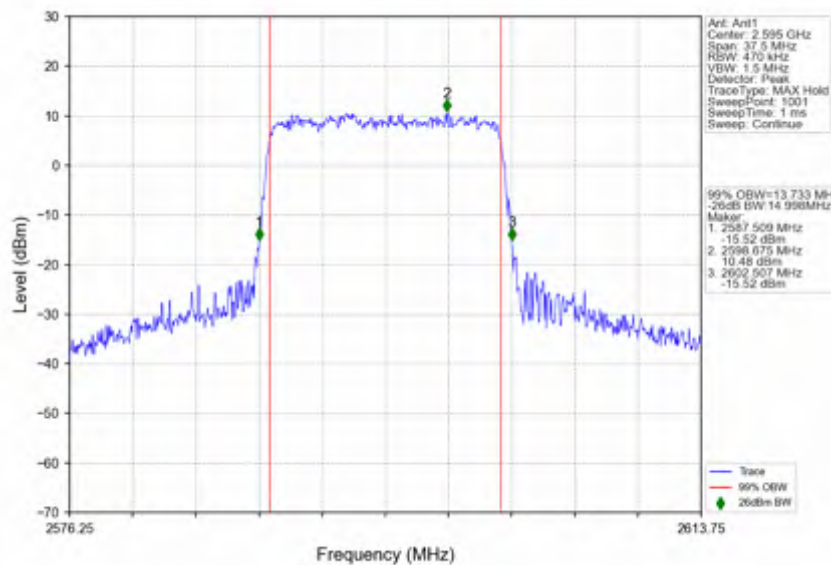
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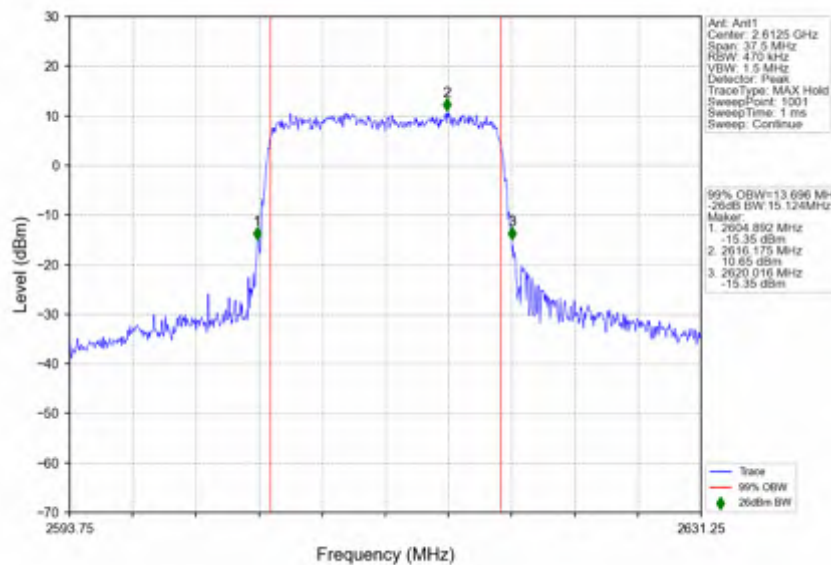
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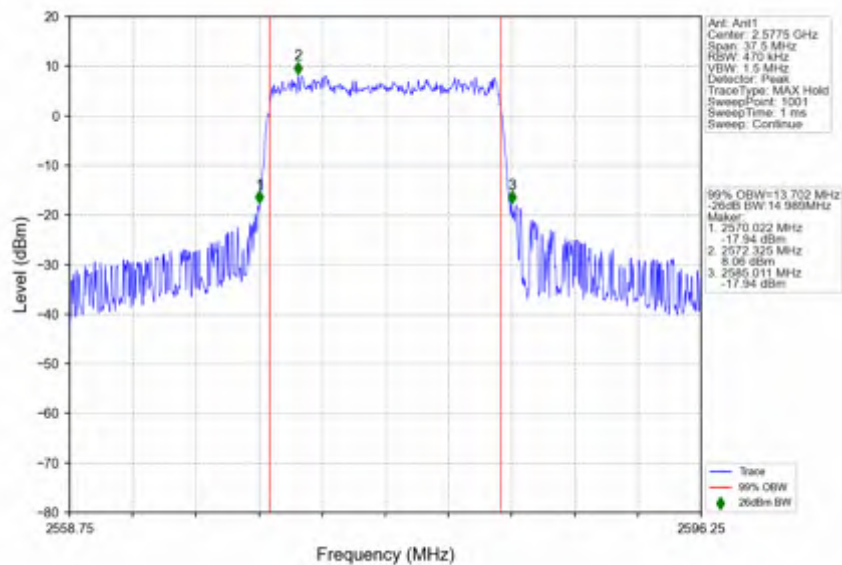
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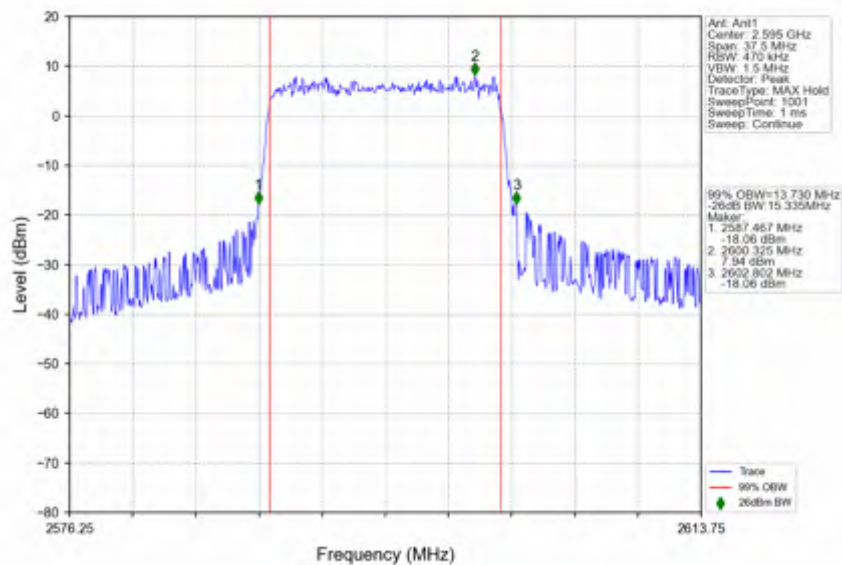
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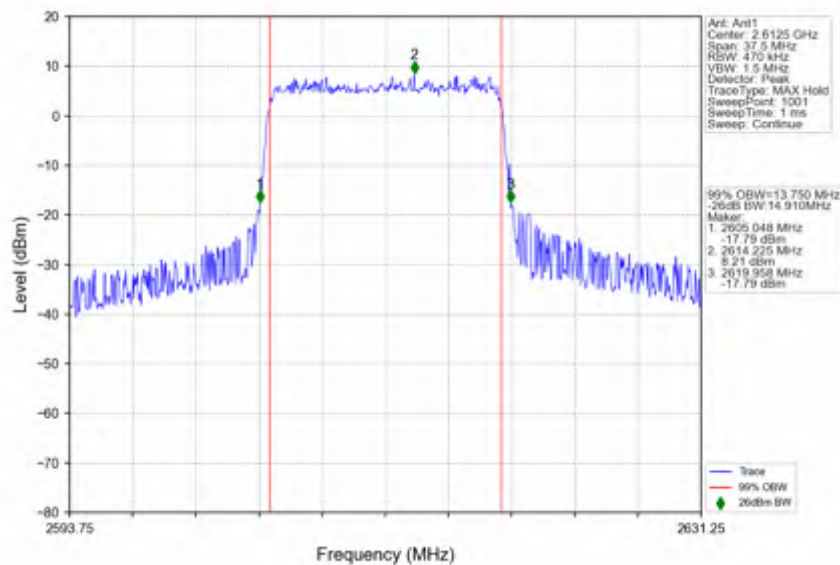
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**5.10 30k_SISO_20MHz_NTNV****5.10.1 Test Result**

5G NR n38 SCS=30kHz SISO 20MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	18.07	19.61	/	Pass
	2595	Outer_Full	18.07	19.62	/	Pass
	2610	Outer_Full	18.08	19.55	/	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	18.11	20.02	/	Pass
	2595	Outer_Full	18.09	19.85	/	Pass
	2610	Outer_Full	18.08	20.07	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	18.06	19.79	/	Pass
	2595	Outer_Full	18.04	19.97	/	Pass
	2610	Outer_Full	18.06	19.86	/	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	18.02	19.53	/	Pass
	2595	Outer_Full	18.10	19.77	/	Pass
	2610	Outer_Full	18.05	19.86	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	18.05	19.75	/	Pass
	2595	Outer_Full	18.06	19.85	/	Pass
	2610	Outer_Full	18.04	19.68	/	Pass
CP-OFDM QPSK	2580	Outer_Full	18.46	20.12	/	Pass
	2595	Outer_Full	18.41	21.16	/	Pass
	2610	Outer_Full	18.41	20.13	/	Pass
CP-OFDM 16 QAM	2580	Outer_Full	18.43	20.04	/	Pass
	2595	Outer_Full	18.42	19.90	/	Pass
	2610	Outer_Full	18.39	19.95	/	Pass
CP-OFDM 64 QAM	2580	Outer_Full	18.40	20.64	/	Pass
	2595	Outer_Full	18.38	20.06	/	Pass
	2610	Outer_Full	18.41	20.12	/	Pass
CP-OFDM 256 QAM	2580	Outer_Full	18.37	19.97	/	Pass
	2595	Outer_Full	18.38	20.09	/	Pass
	2610	Outer_Full	18.40	20.05	/	Pass



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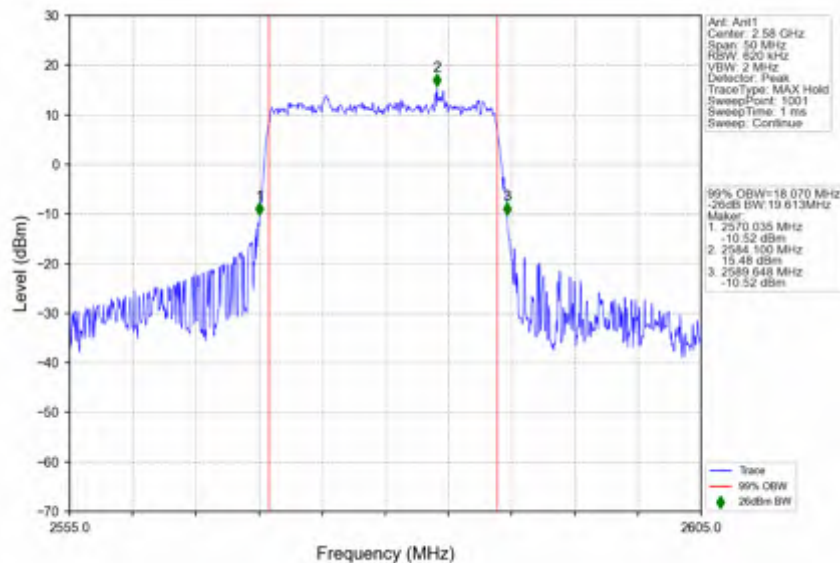
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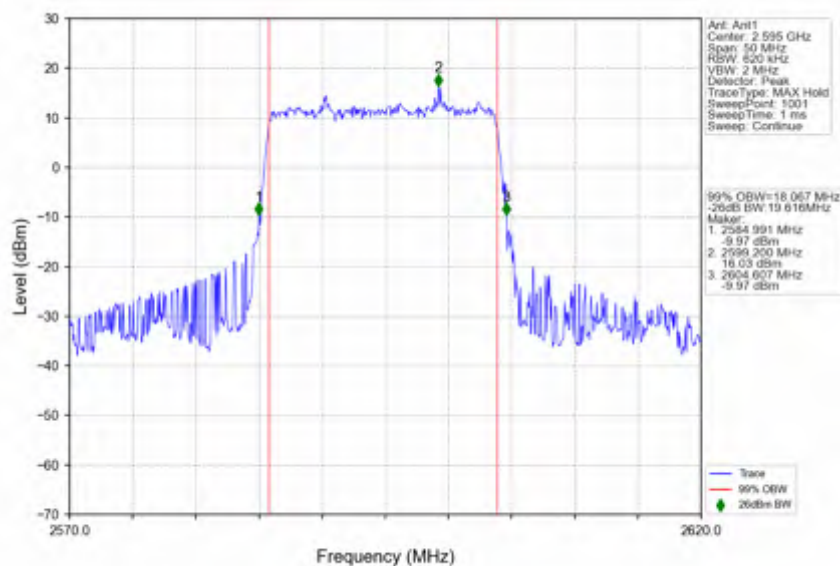
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5.10.2 Test Graph

n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



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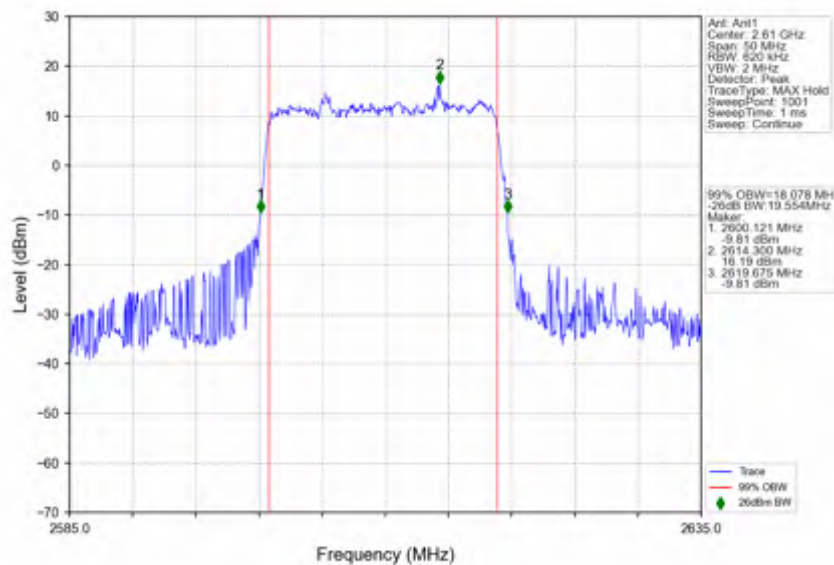
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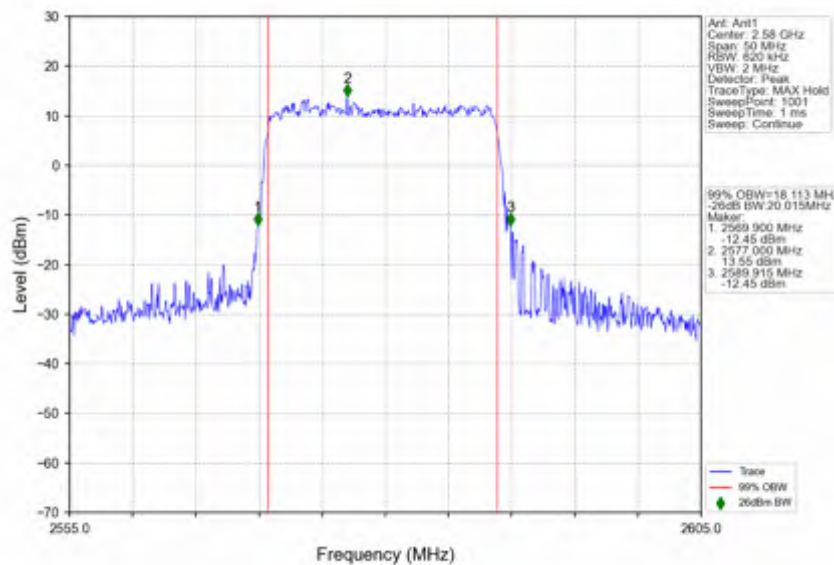
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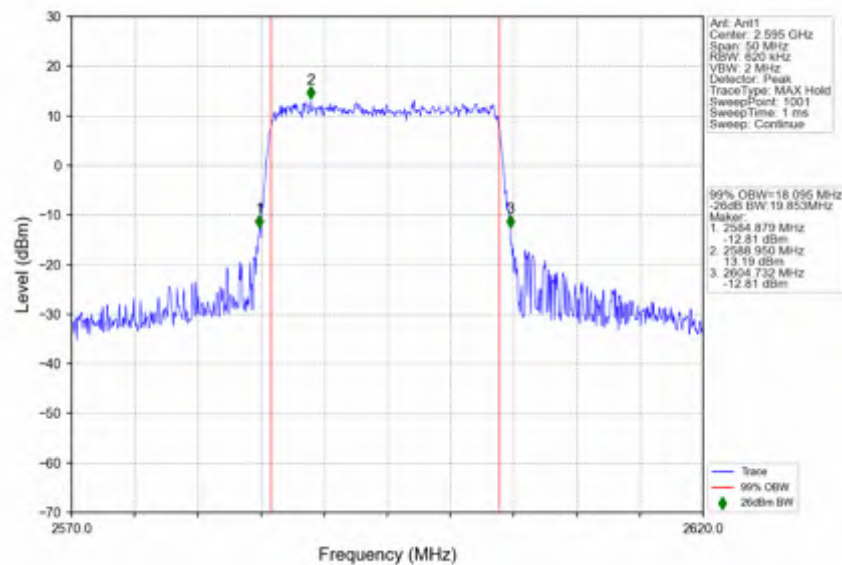
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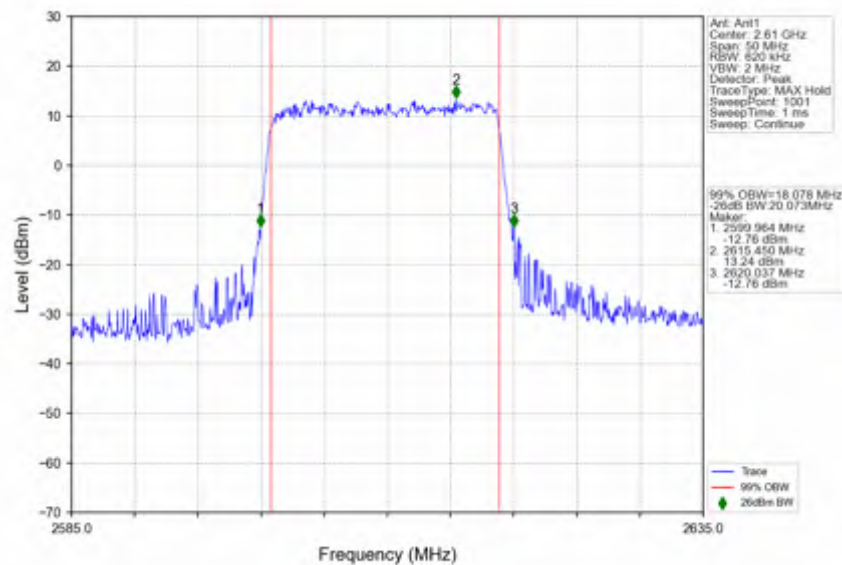
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Outer_Full



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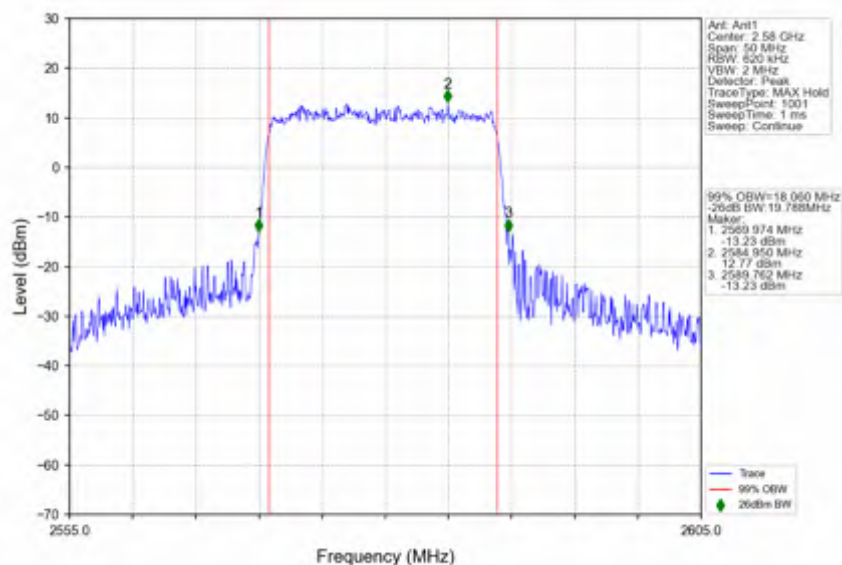
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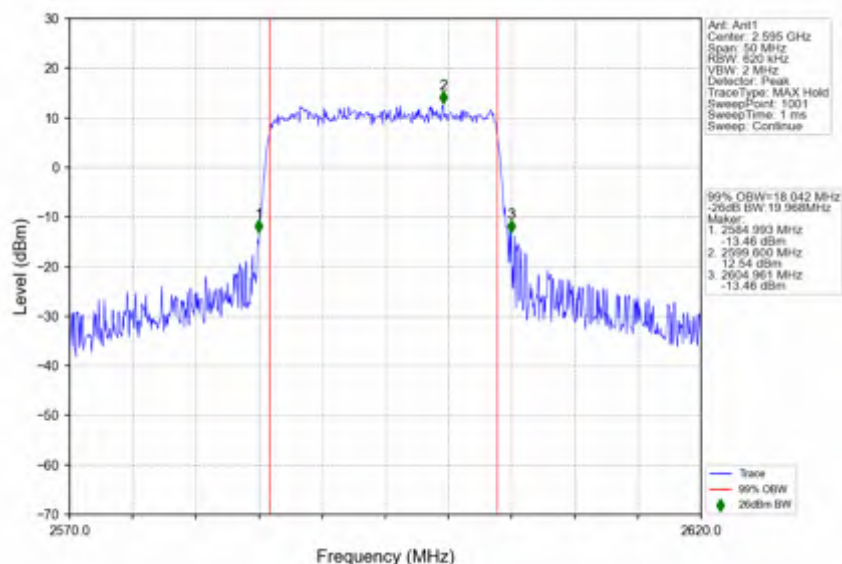
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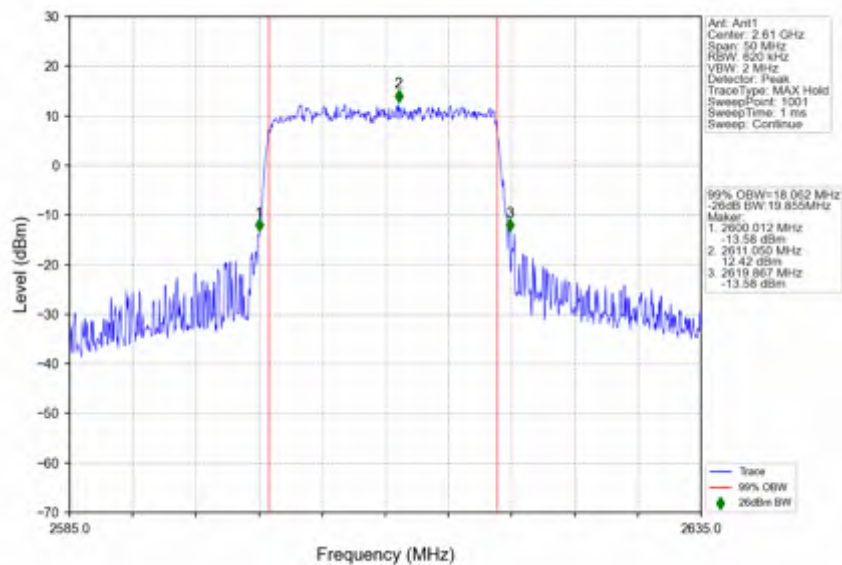


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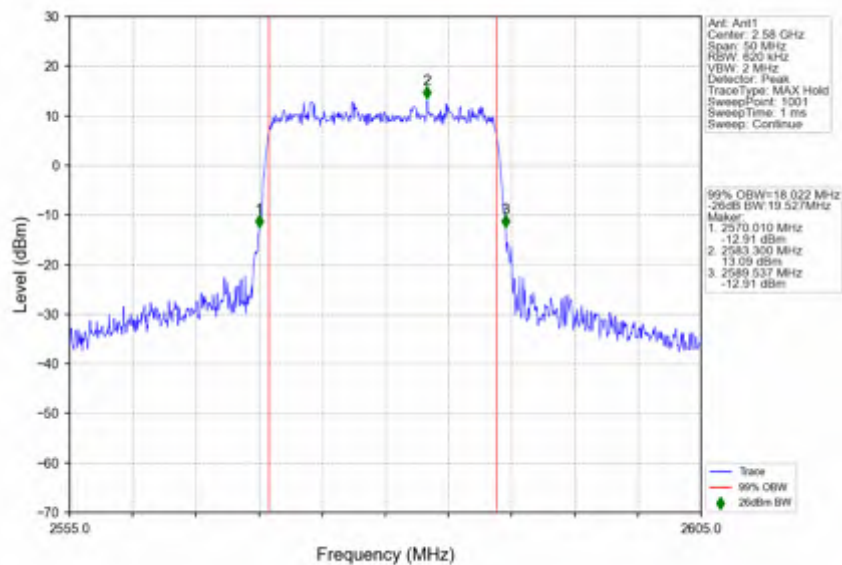
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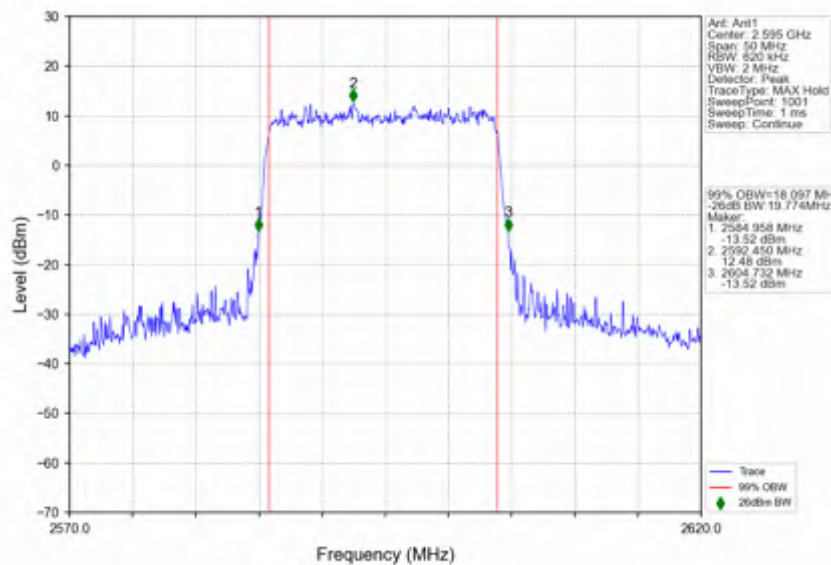
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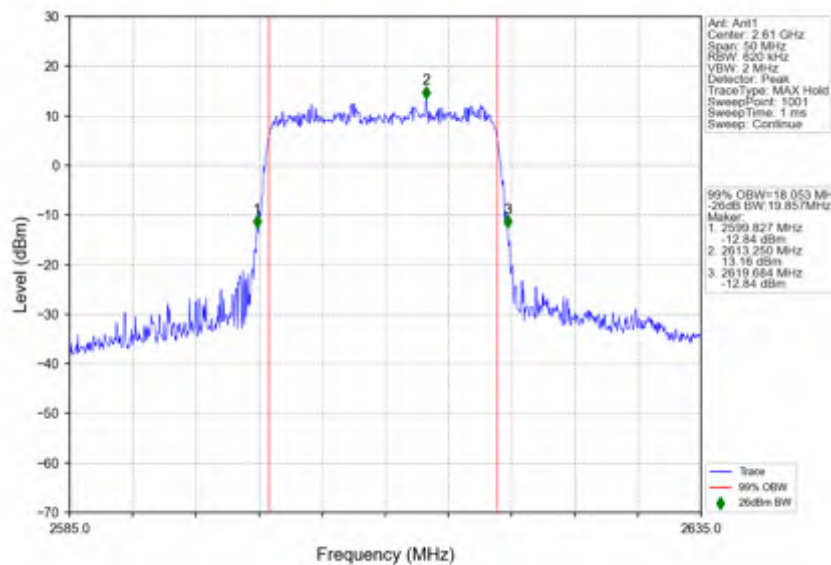
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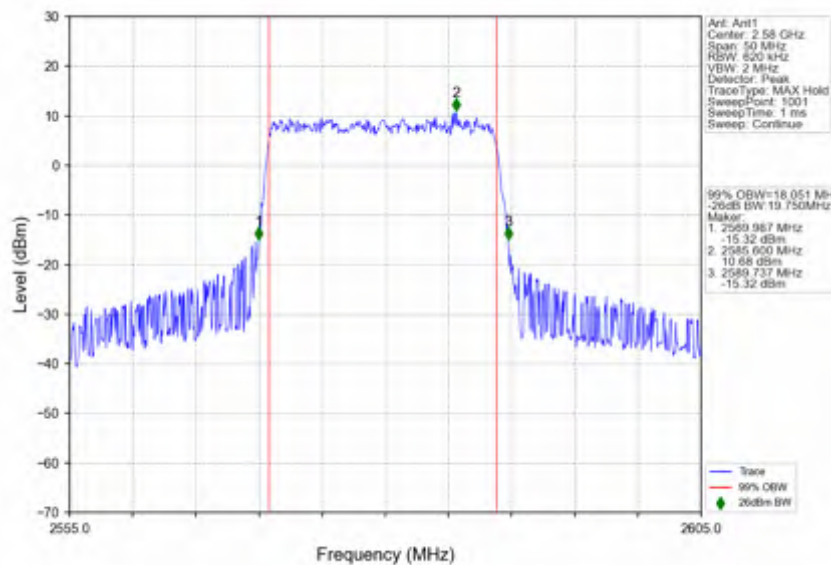
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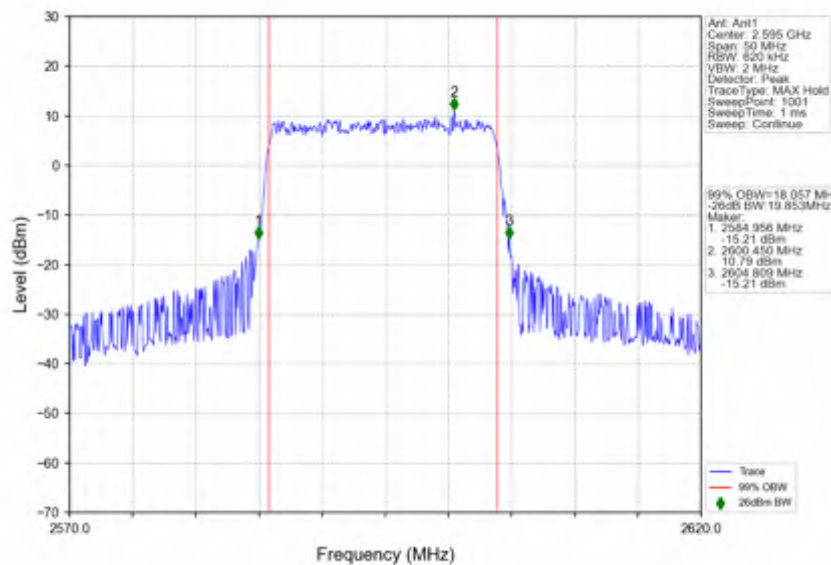
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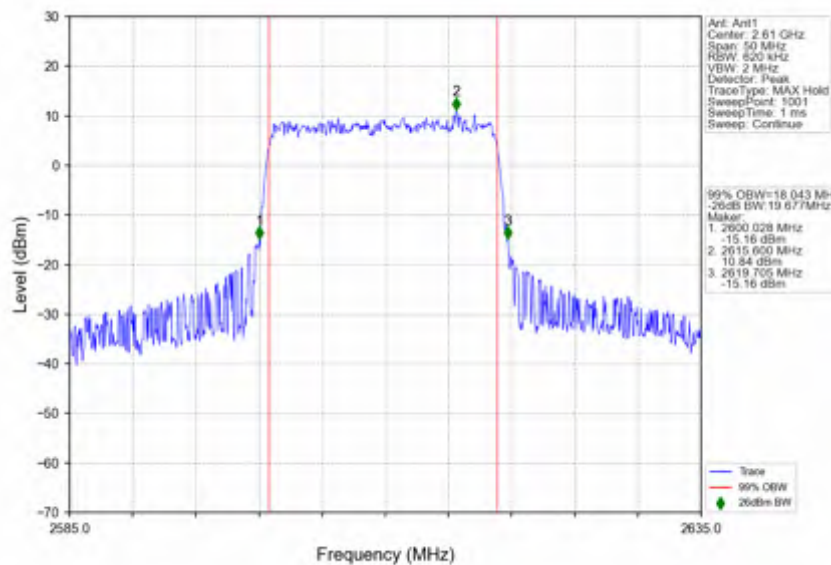
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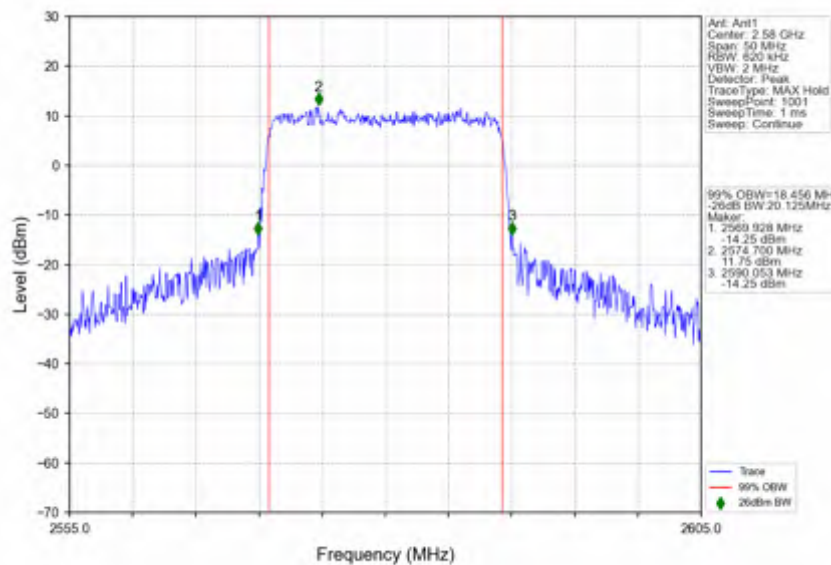
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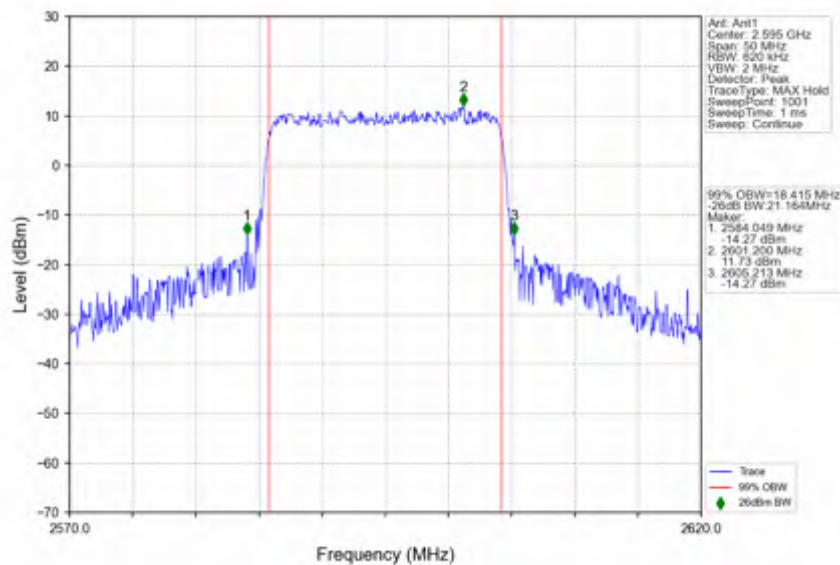
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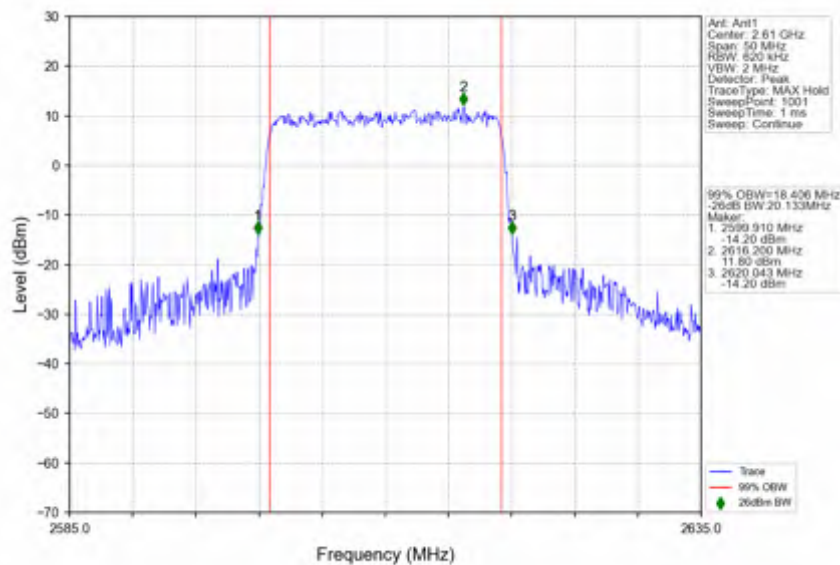
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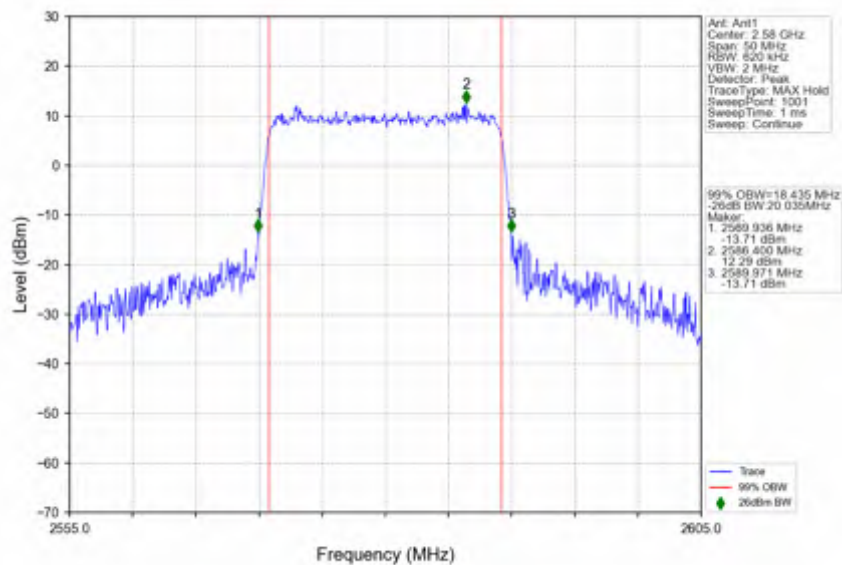
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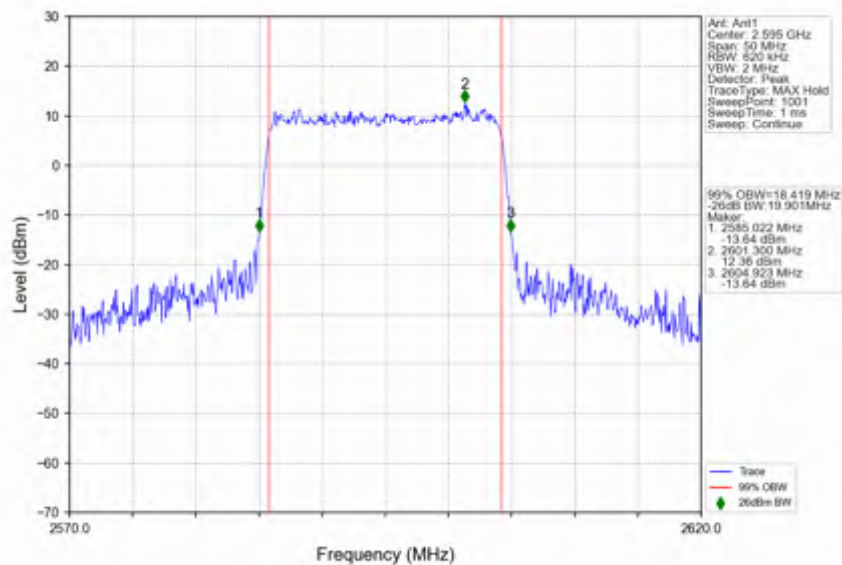
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2580MHz_Outer_Full



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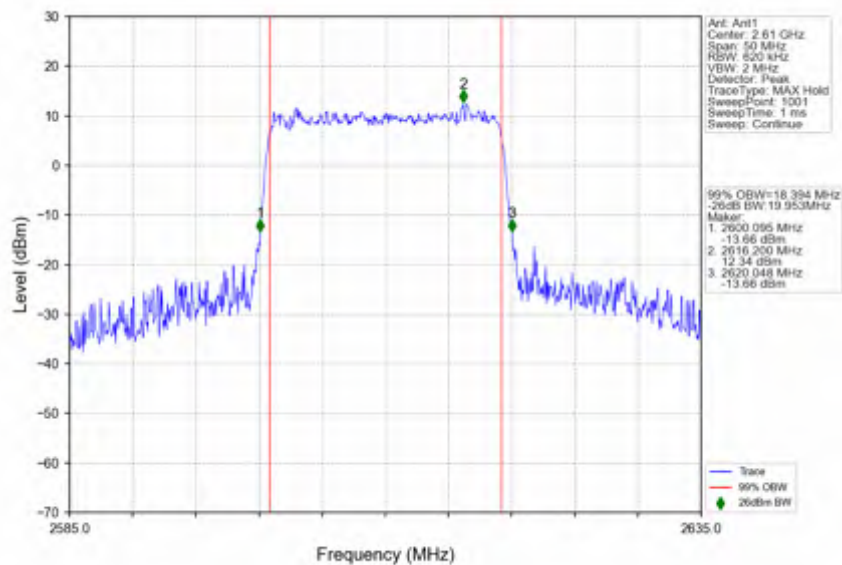
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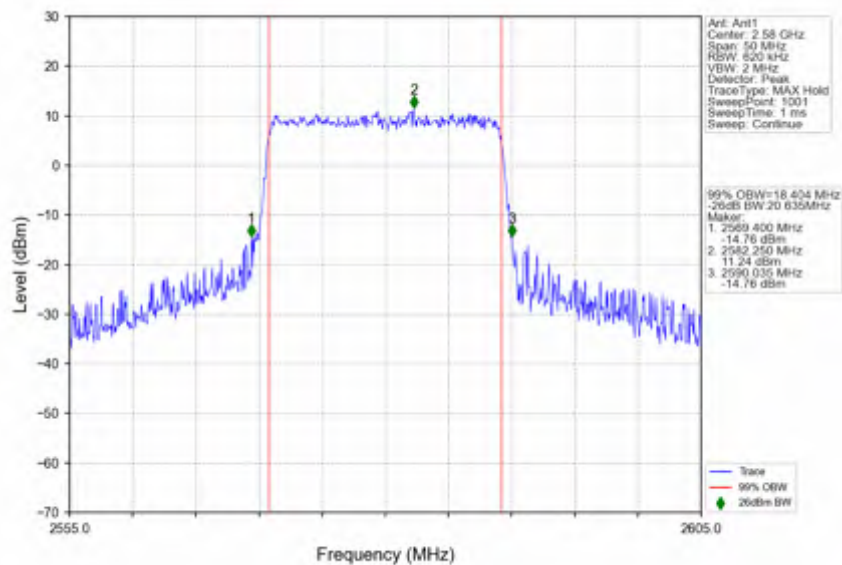
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n38 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 2610MHz Outer Full



n38 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 2580MHz Outer Full



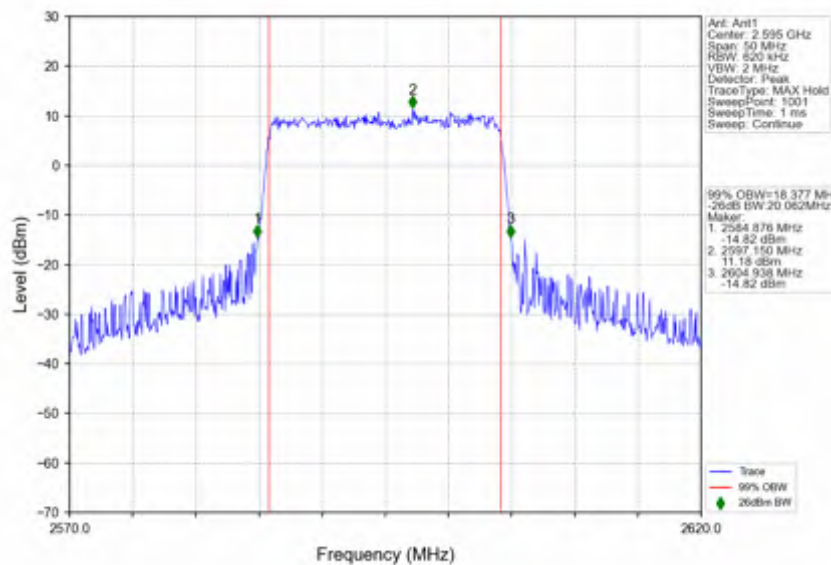
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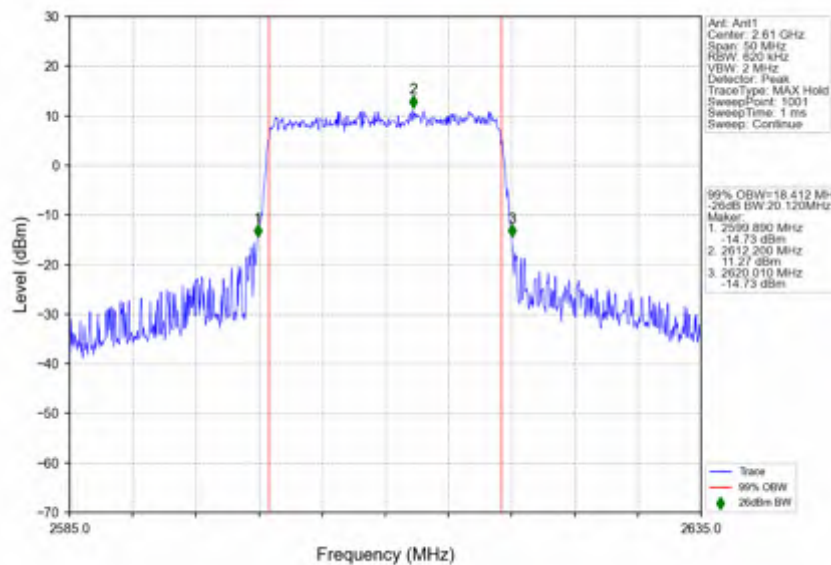
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full



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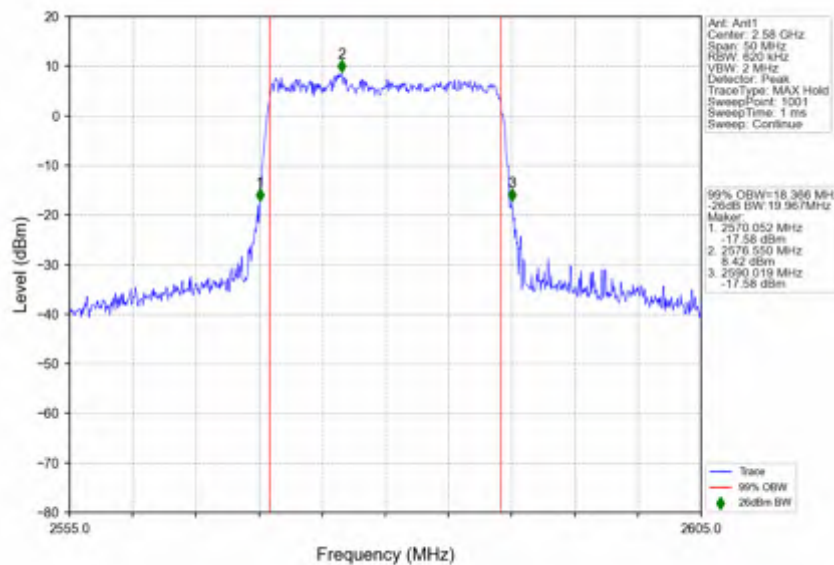
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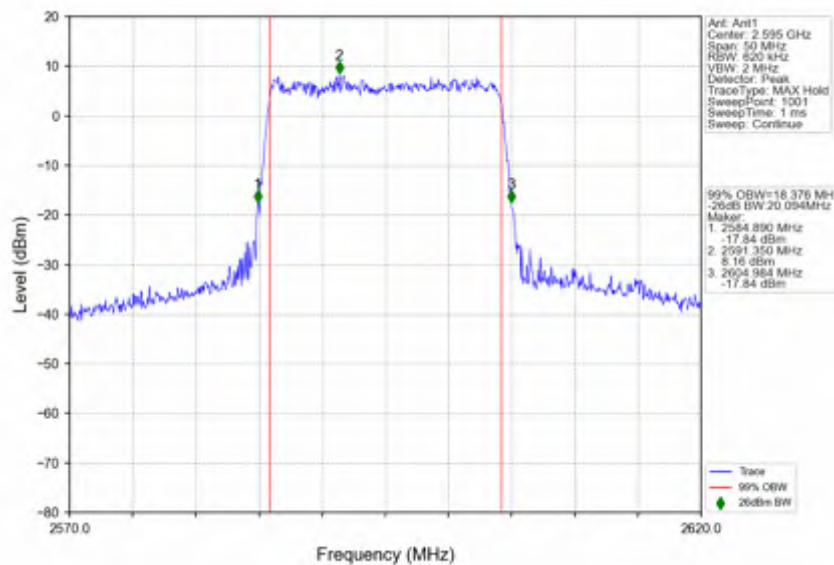
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n38	30kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	2595MHz	Outer	Full
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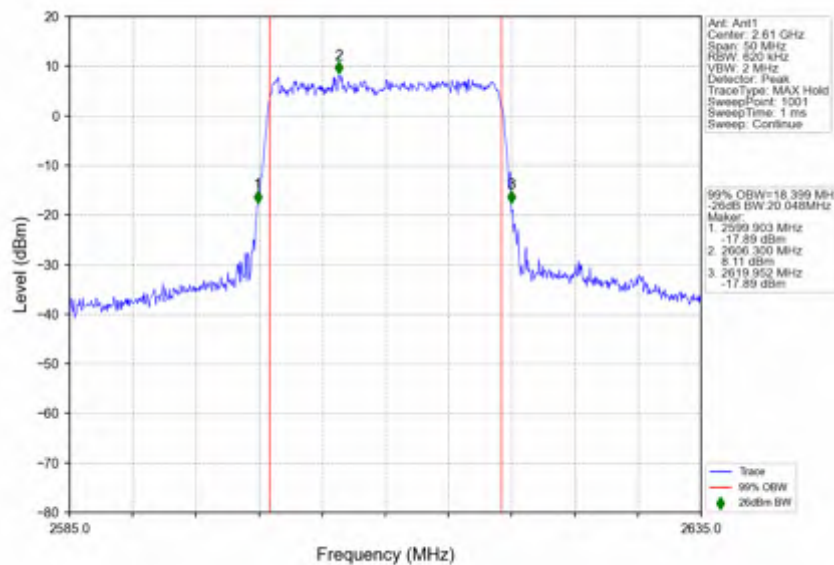


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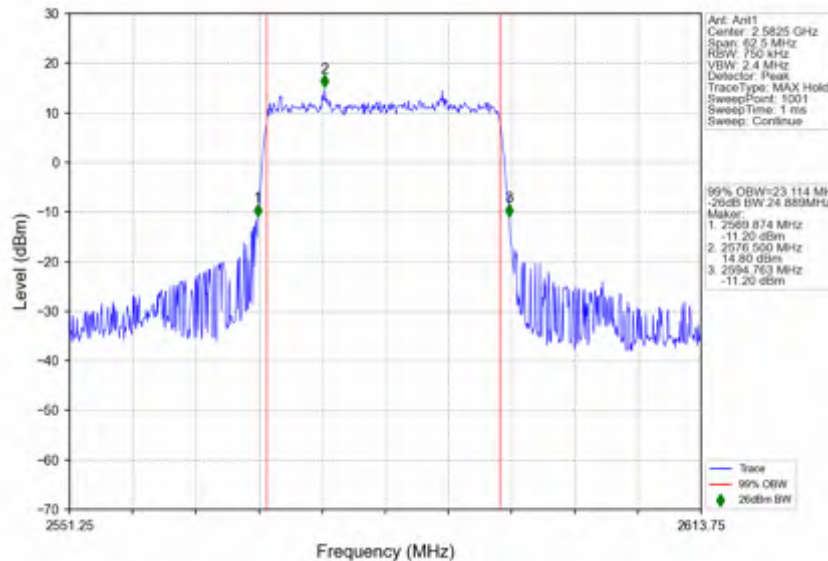
5.11 30k_SISO_25MHz_NTNV

5.11.1 Test Result

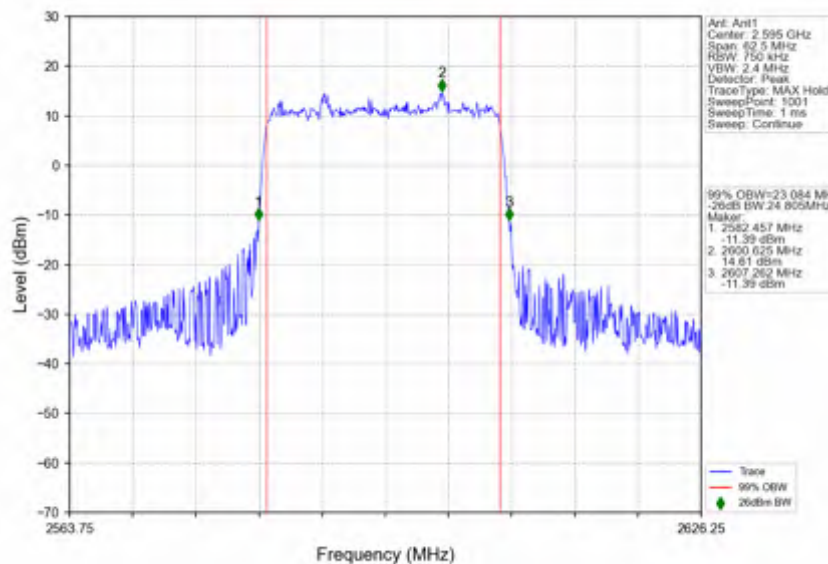
5G NR n38 SCS=30kHz SISO 25MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	23.11	24.89	/	Pass
	2595	Outer_Full	23.08	24.80	/	Pass
	2607.5	Outer_Full	23.08	24.86	/	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	23.09	25.13	/	Pass
	2595	Outer_Full	23.07	25.09	/	Pass
	2607.5	Outer_Full	23.07	24.95	/	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	23.14	25.54	/	Pass
	2595	Outer_Full	23.09	25.06	/	Pass
	2607.5	Outer_Full	23.07	25.23	/	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	23.16	25.06	/	Pass
	2595	Outer_Full	23.18	25.02	/	Pass
	2607.5	Outer_Full	23.19	25.48	/	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	23.07	25.11	/	Pass
	2595	Outer_Full	23.10	25.02	/	Pass
	2607.5	Outer_Full	23.08	25.07	/	Pass
CP-OFDM QPSK	2582.5	Outer_Full	23.43	25.31	/	Pass
	2595	Outer_Full	23.39	25.45	/	Pass
	2607.5	Outer_Full	23.42	25.16	/	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	23.39	25.35	/	Pass
	2595	Outer_Full	23.37	25.35	/	Pass
	2607.5	Outer_Full	23.37	25.27	/	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	23.38	25.45	/	Pass
	2595	Outer_Full	23.40	25.30	/	Pass
	2607.5	Outer_Full	23.43	25.27	/	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	23.40	25.22	/	Pass
	2595	Outer_Full	23.37	25.14	/	Pass
	2607.5	Outer_Full	23.42	25.29	/	Pass

5.11.2 Test Graph

n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



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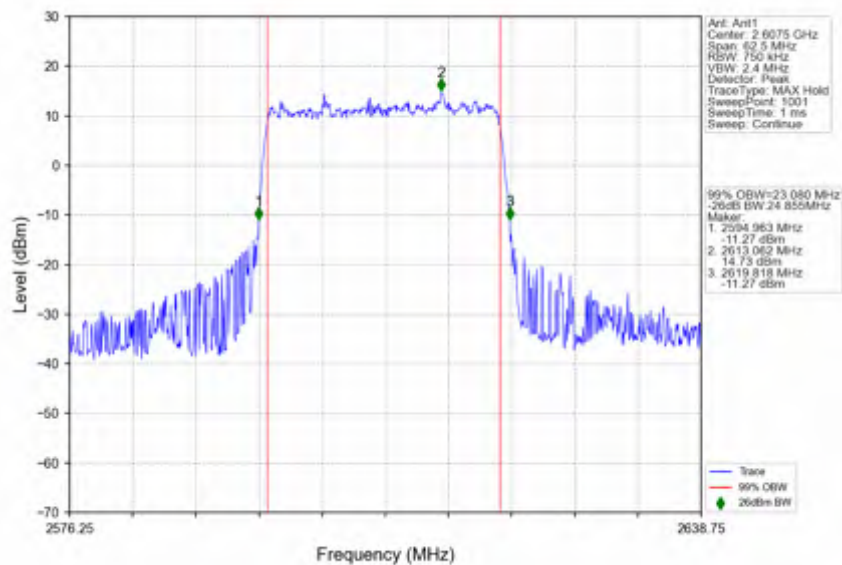
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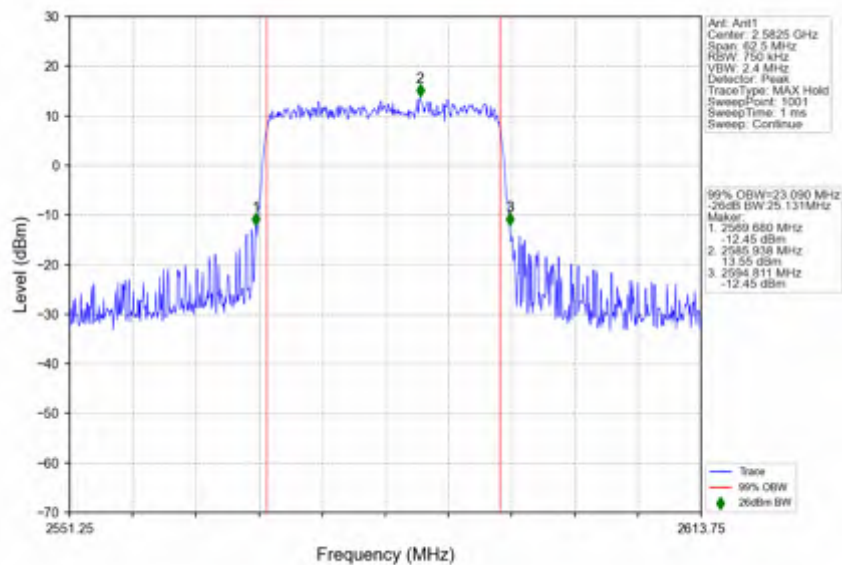
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2582.5MHz_Outer_Full



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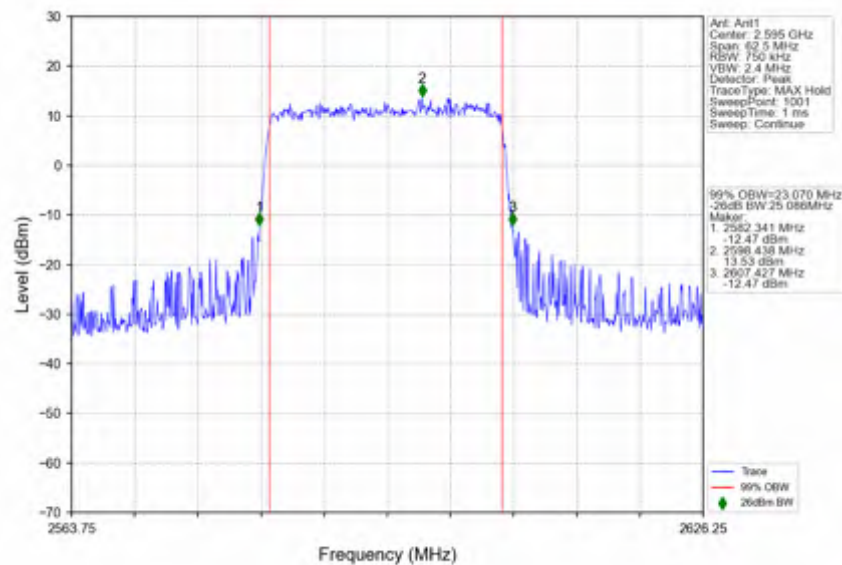
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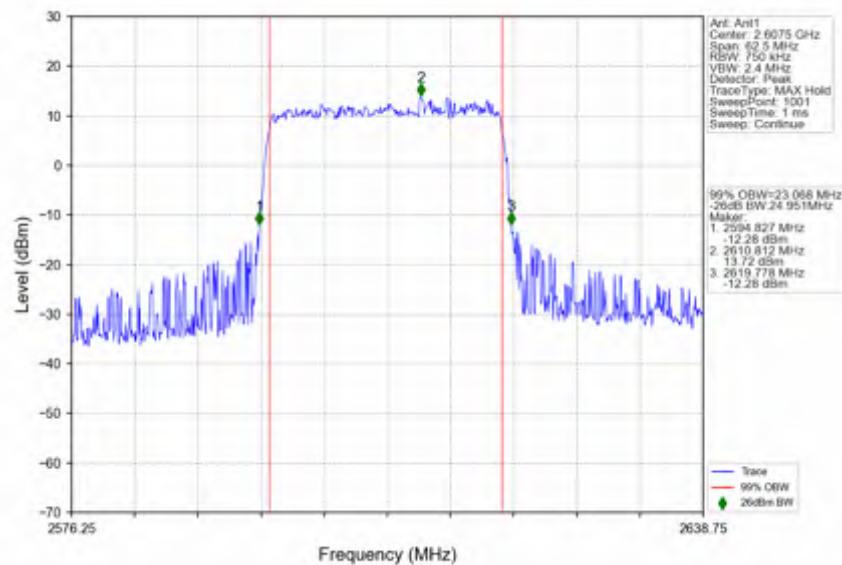
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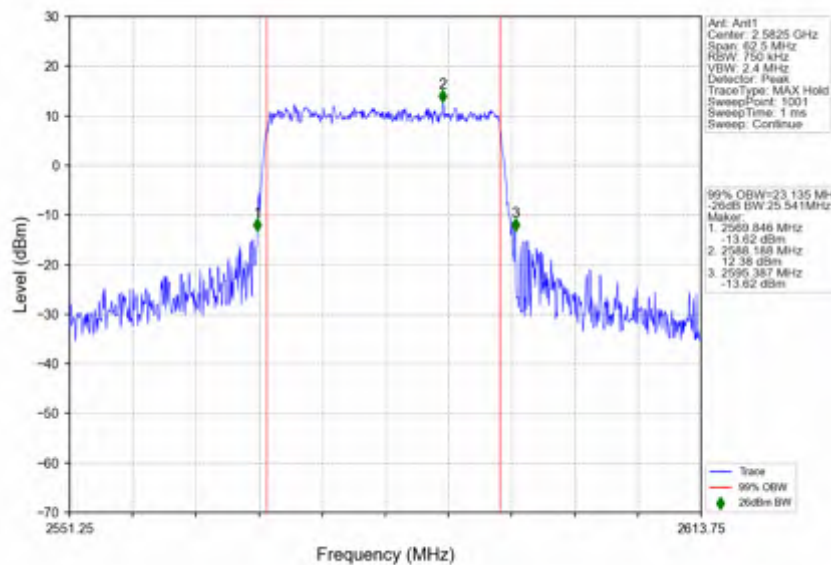
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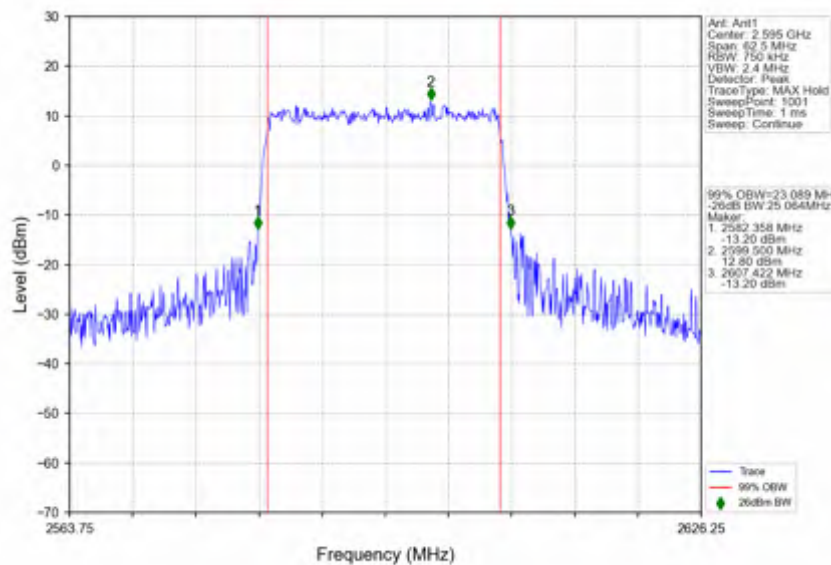
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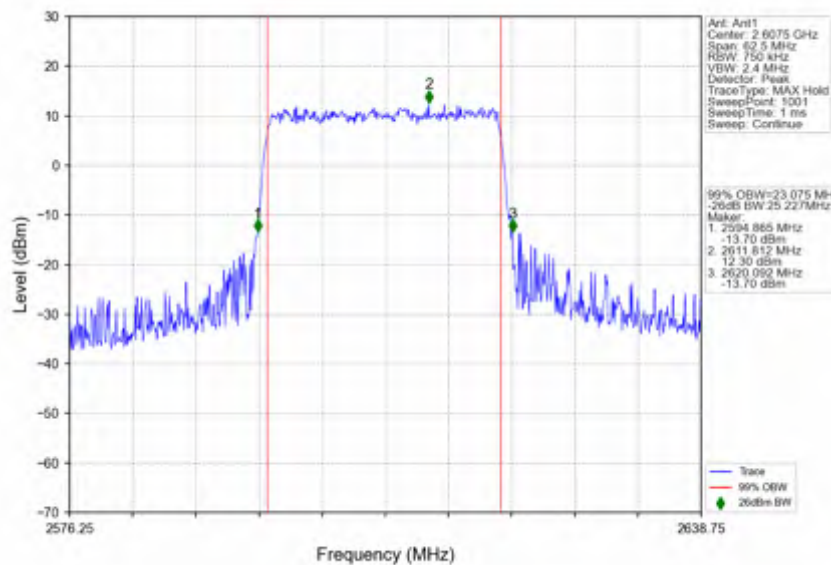
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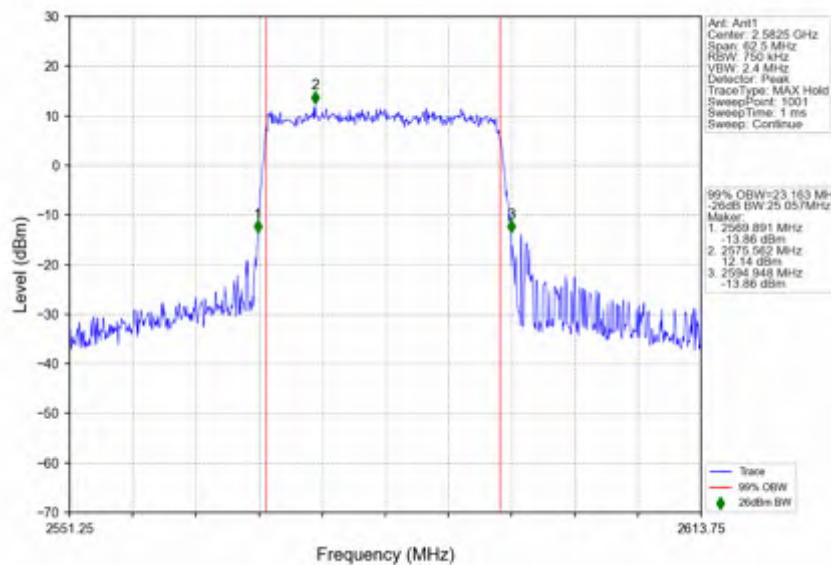
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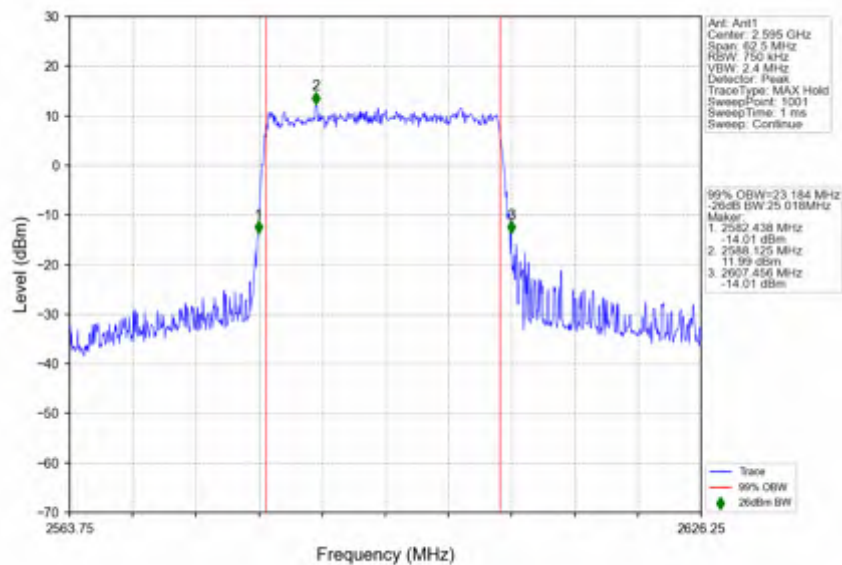
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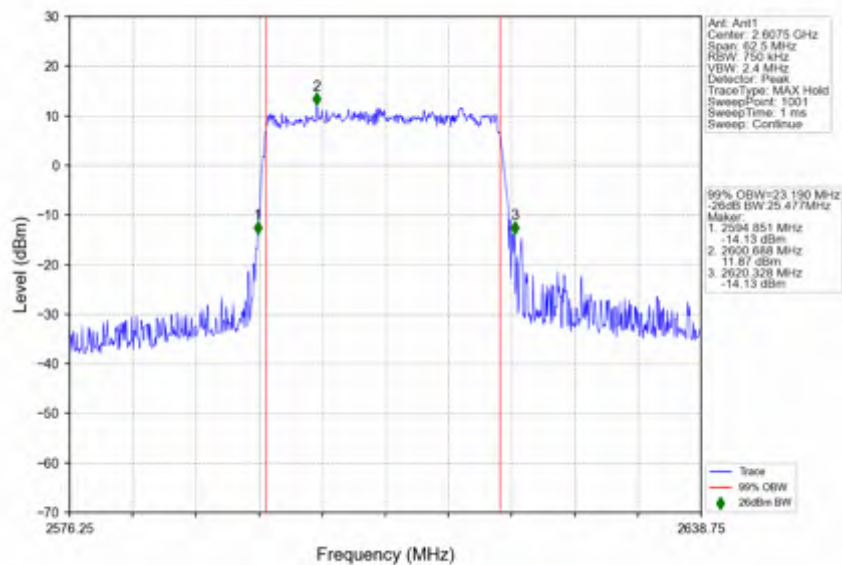
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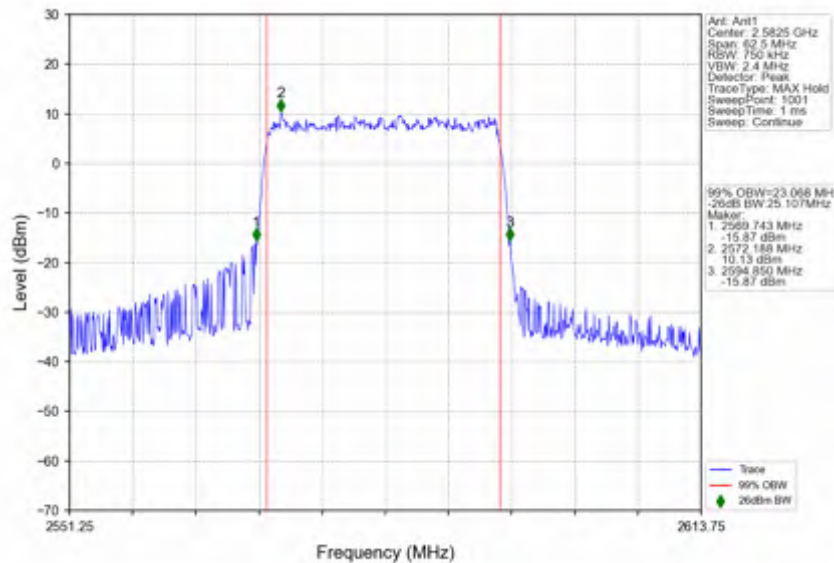
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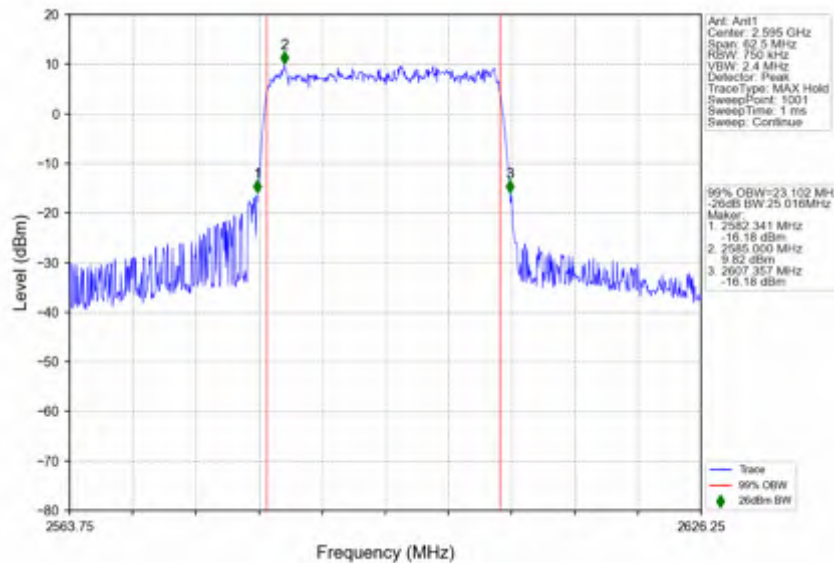
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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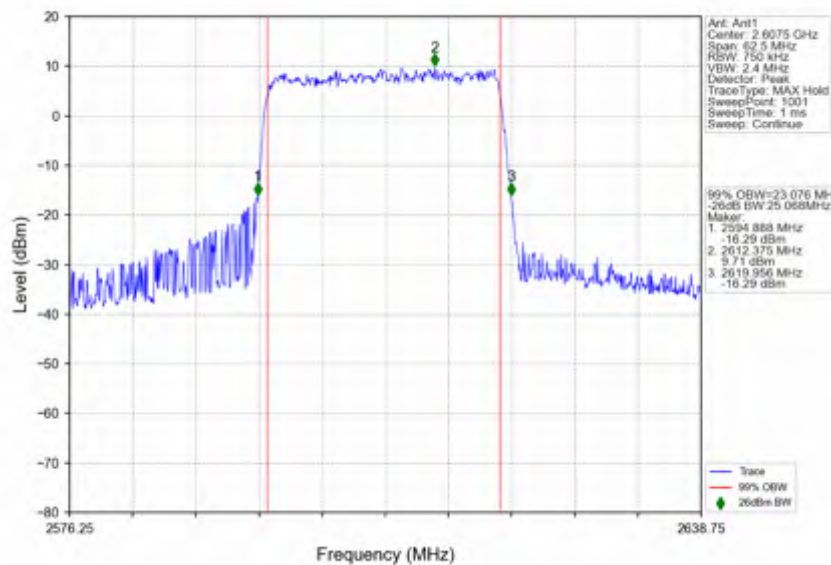
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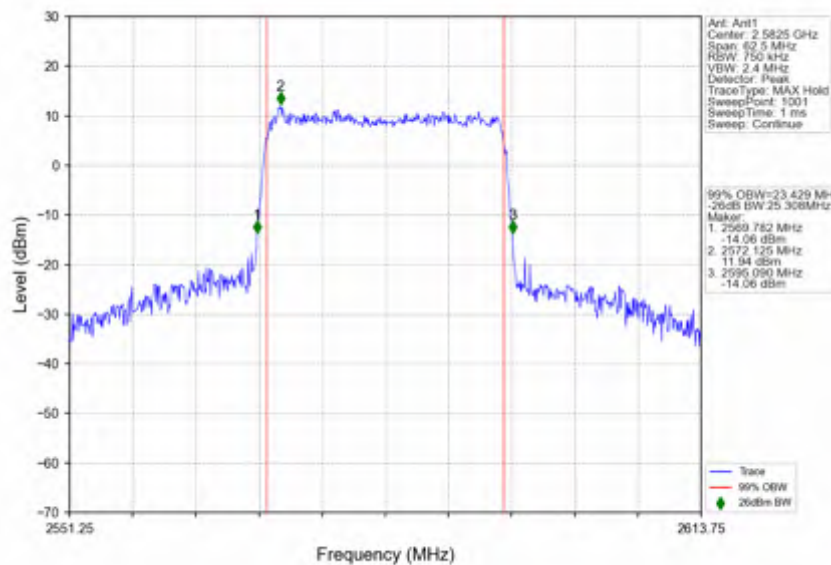
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n38	30kHz	SISO	NTNV	25MHz	DFT-s-OFDM	256	QAM	2607.5MHz	Outer	Full
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_2582.5MHz_Outer_Full

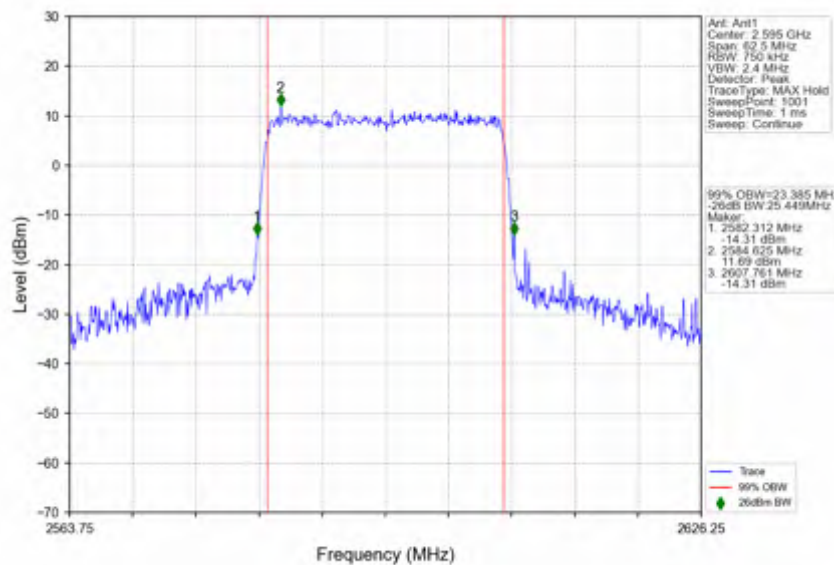


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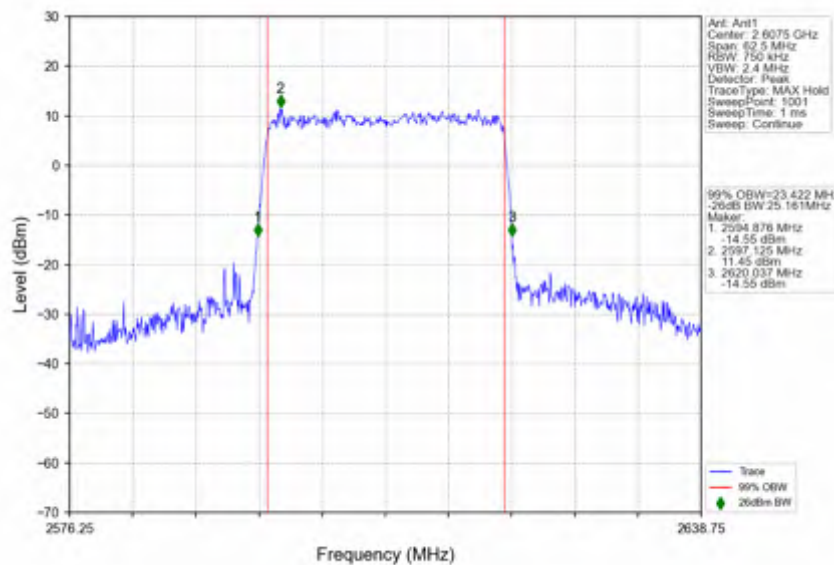
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2607.5MHz_Outer_Full



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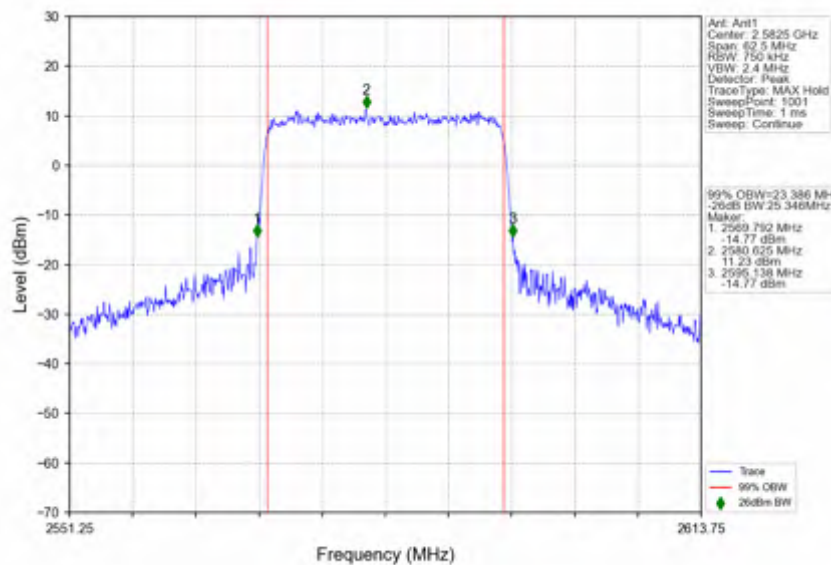
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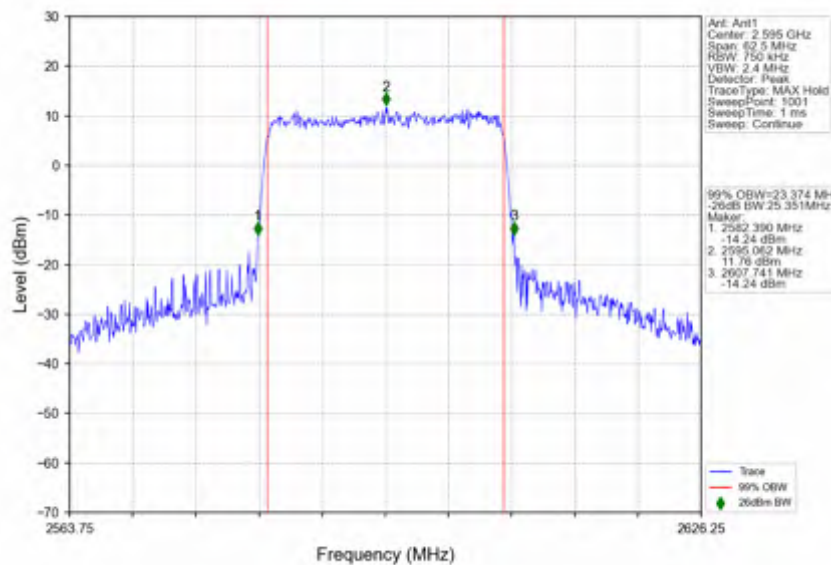
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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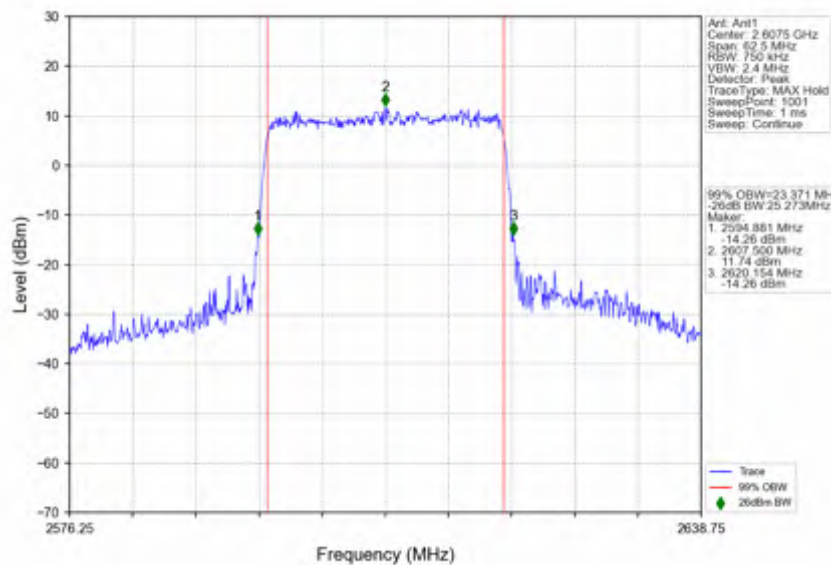
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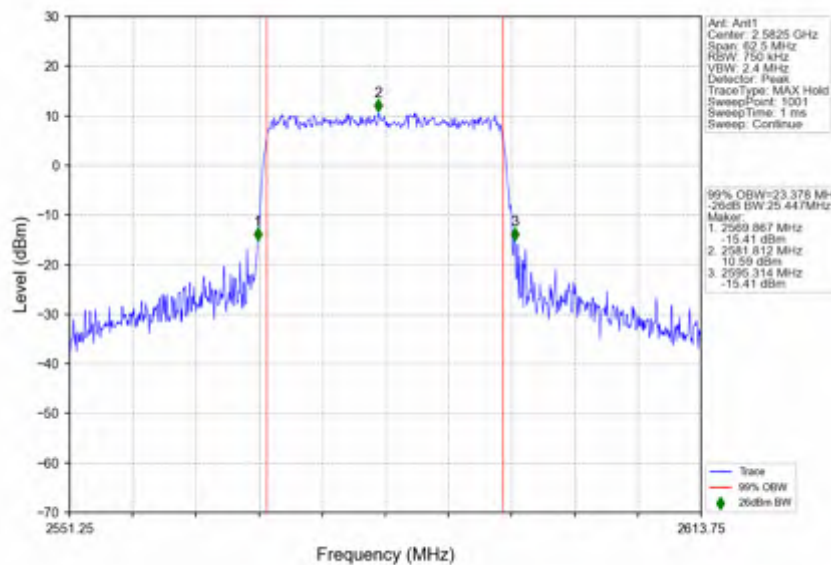
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n38_30kHz_SISO_NTV_25MHz_CP-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTV_25MHz_CP-OFDM 64 QAM_2582.5MHz_Outer_Full



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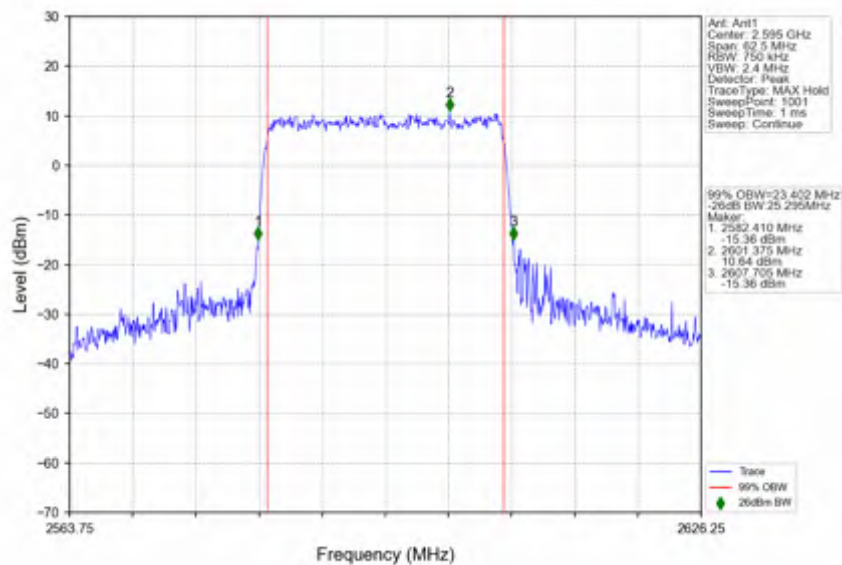
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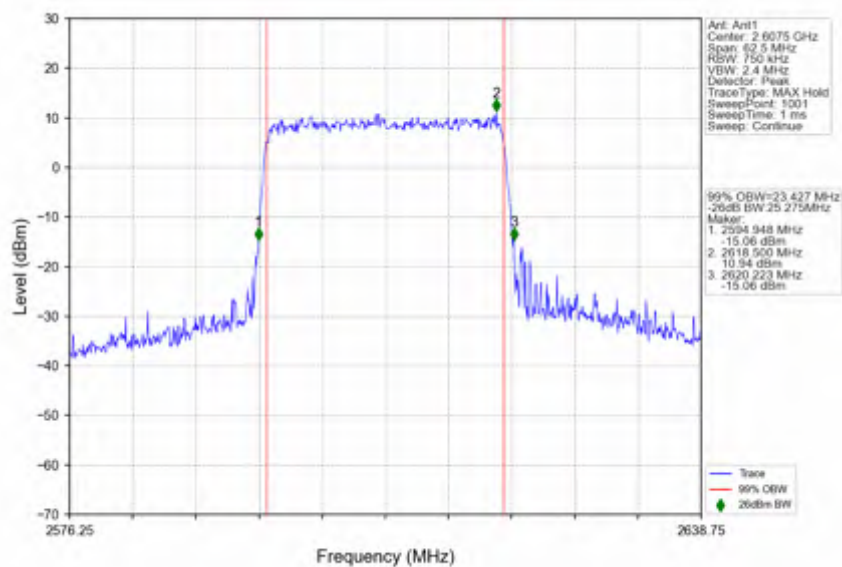
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n38 30kHz SISO NTN 25MHz CP-OFDM 64 QAM 2595MHz Outer Full



n38	30kHz	SISO	NTNV	25MHz	CP-OFDM	64 QAM	2607.5MHz	Outer	Full
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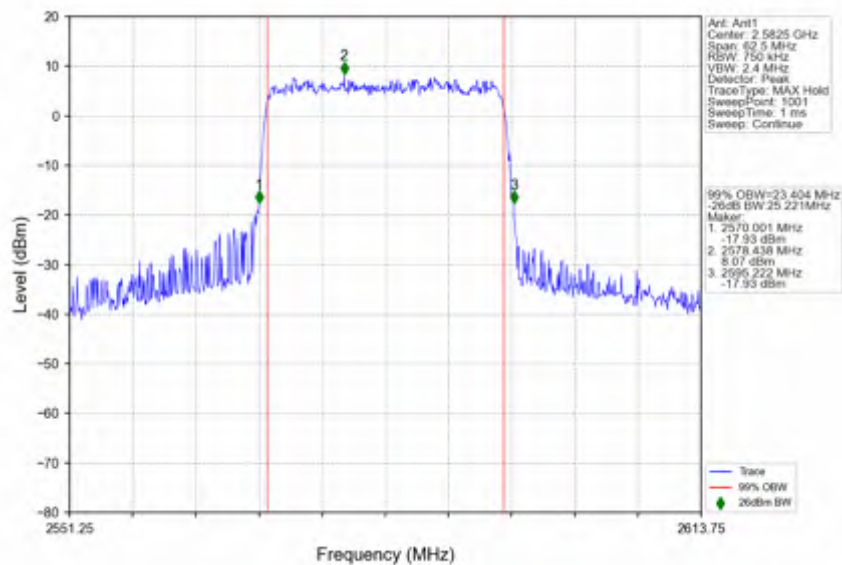


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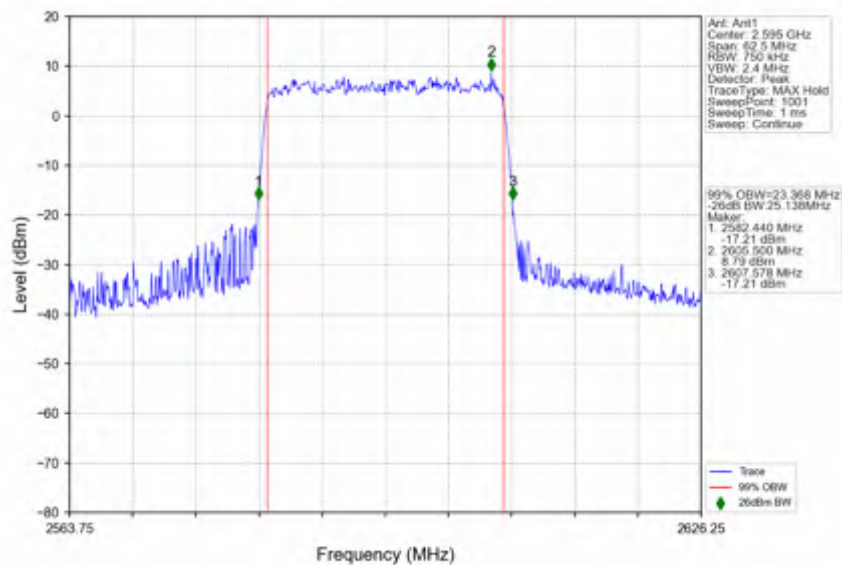
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2595MHz_Outer_Full



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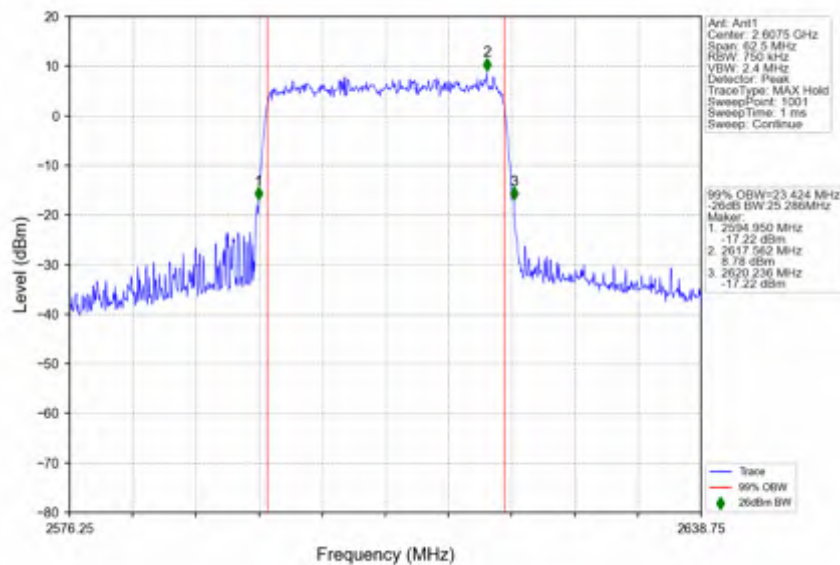
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n38_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2607.5MHz_Outer_Full



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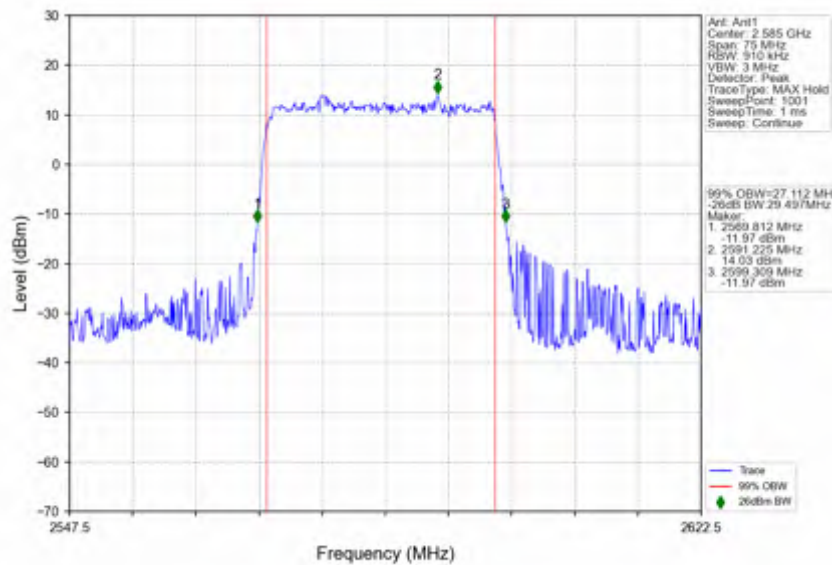
5.12 30k_SISO_30MHz_NTNV

5.12.1 Test Result

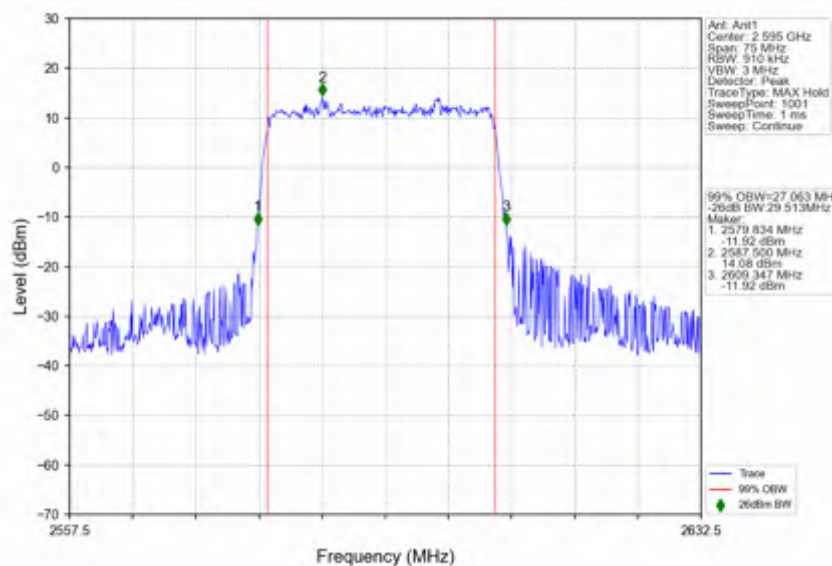
5G NR n38 SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2585	Outer_Full	27.11	29.50	/	Pass
	2595	Outer_Full	27.06	29.51	/	Pass
	2605	Outer_Full	27.05	29.33	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	27.23	29.49	/	Pass
	2595	Outer_Full	27.11	29.57	/	Pass
	2605	Outer_Full	27.13	29.49	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	27.10	29.39	/	Pass
	2595	Outer_Full	27.00	29.42	/	Pass
	2605	Outer_Full	27.07	29.26	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	27.17	29.58	/	Pass
	2595	Outer_Full	27.08	29.87	/	Pass
	2605	Outer_Full	27.10	29.65	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	27.04	31.47	/	Pass
	2595	Outer_Full	27.04	29.84	/	Pass
	2605	Outer_Full	27.06	29.79	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.13	31.40	/	Pass
	2595	Outer_Full	28.10	31.31	/	Pass
	2605	Outer_Full	28.09	30.75	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.16	30.58	/	Pass
	2595	Outer_Full	28.15	30.49	/	Pass
	2605	Outer_Full	28.14	30.76	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.05	30.35	/	Pass
	2595	Outer_Full	28.10	30.19	/	Pass
	2605	Outer_Full	28.03	30.24	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.08	33.18	/	Pass
	2595	Outer_Full	28.08	34.45	/	Pass
	2605	Outer_Full	28.07	34.13	/	Pass

5.12.2 Test Graph

n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2585MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



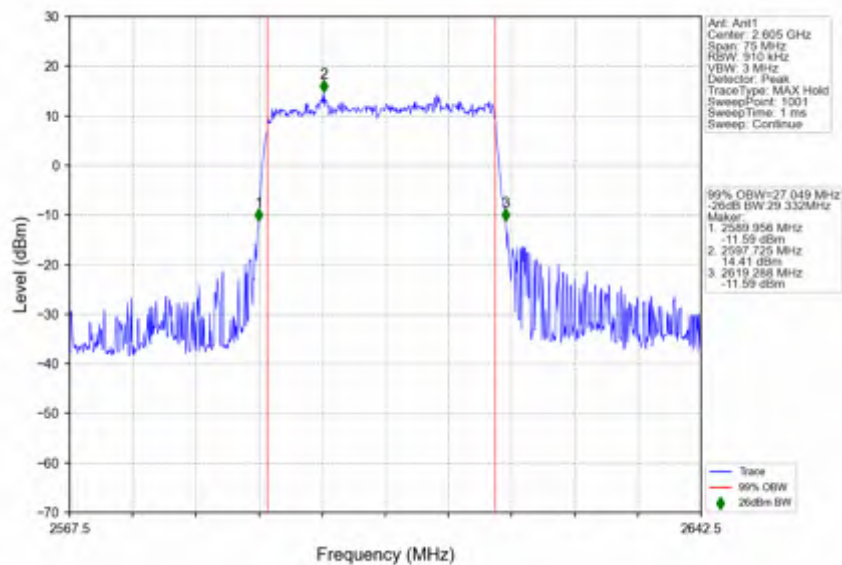
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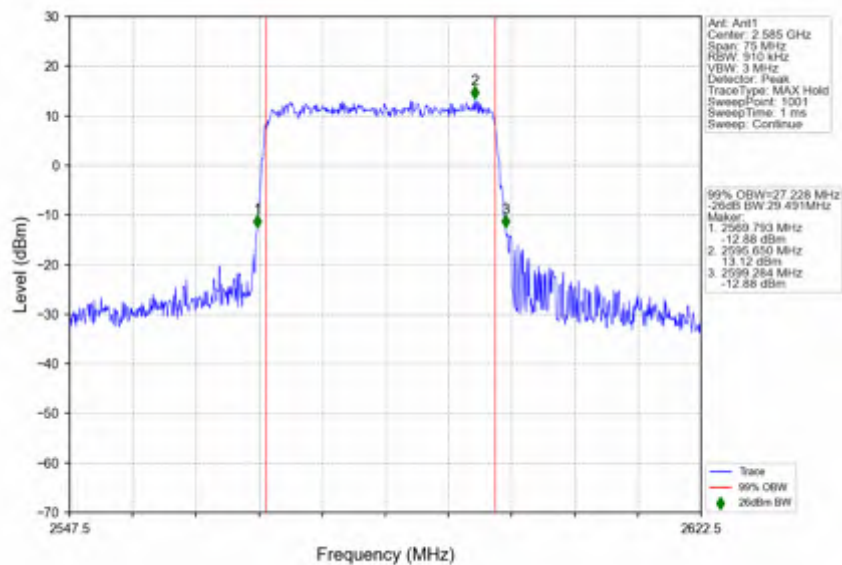
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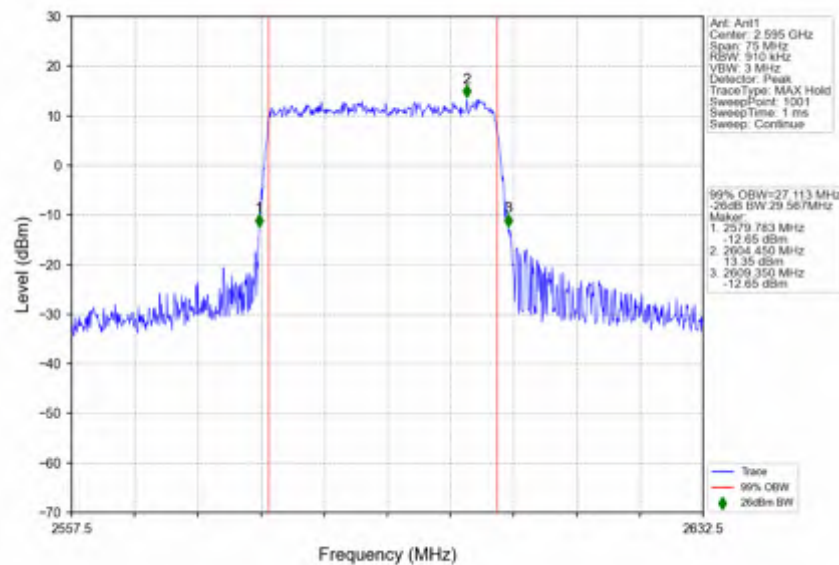


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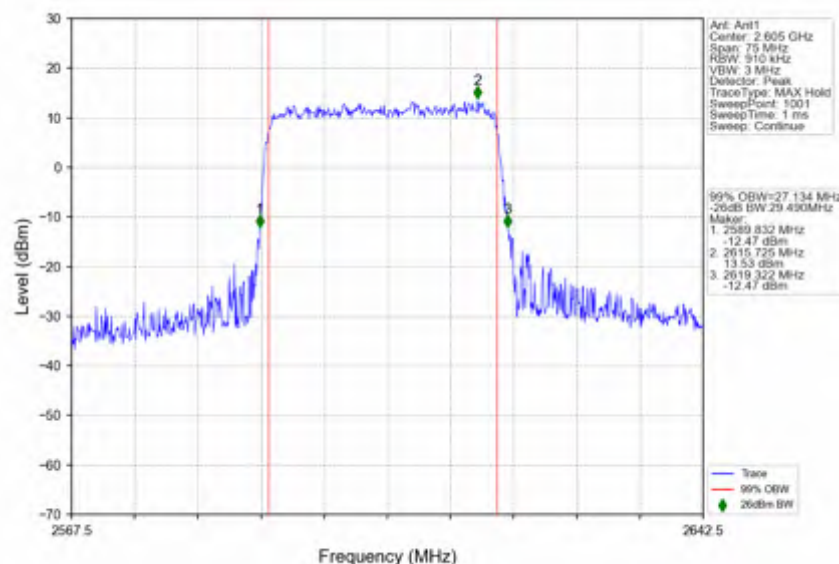
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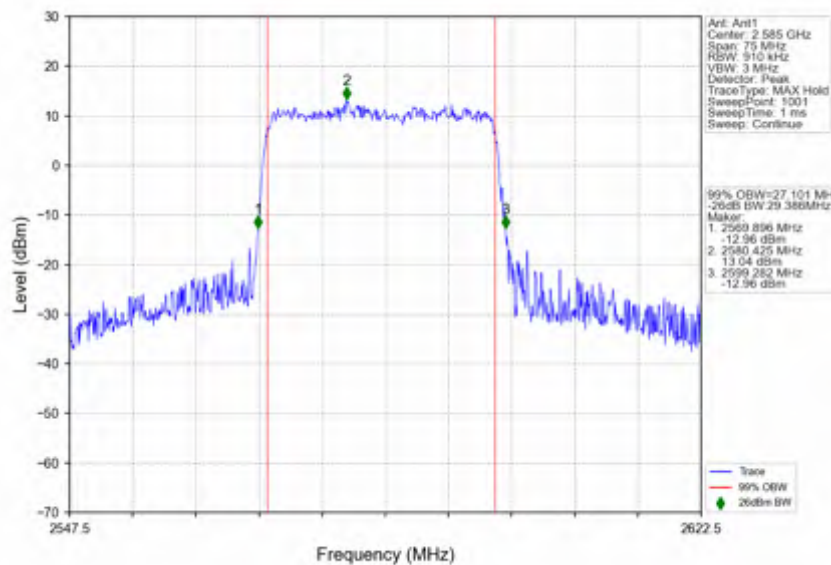
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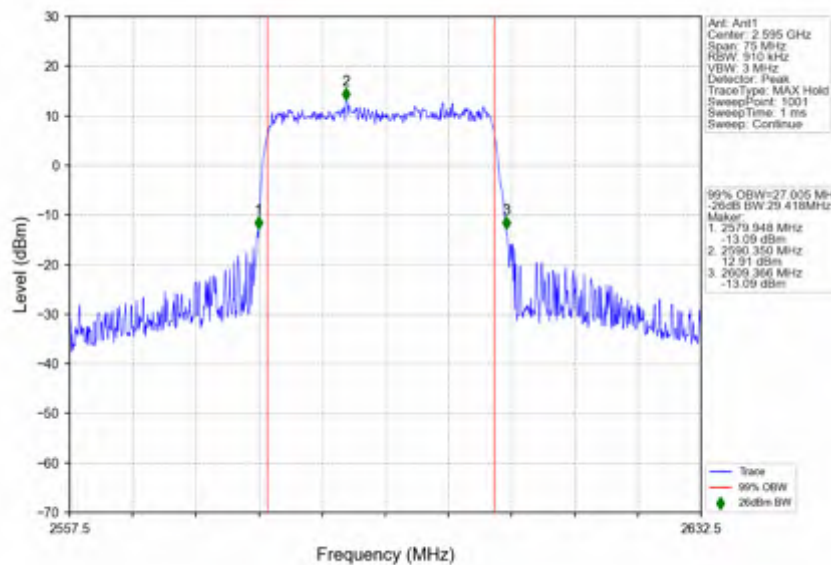
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2585MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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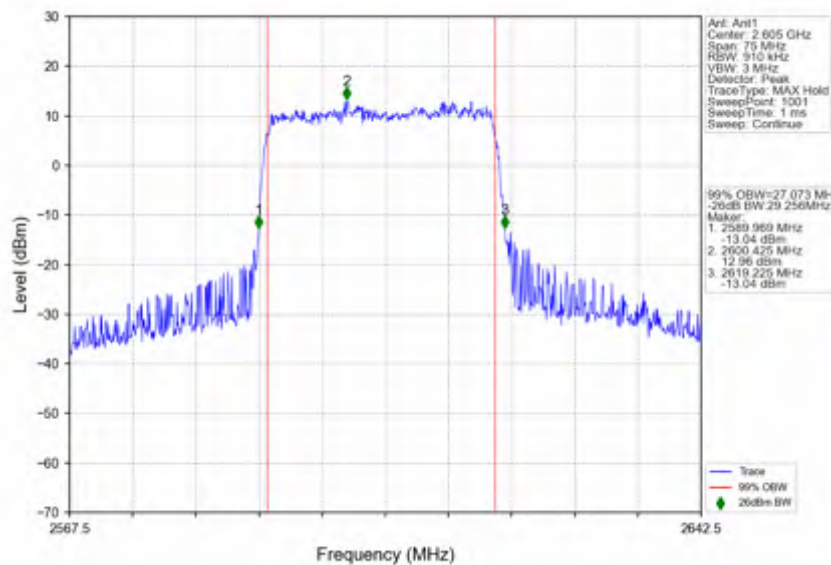
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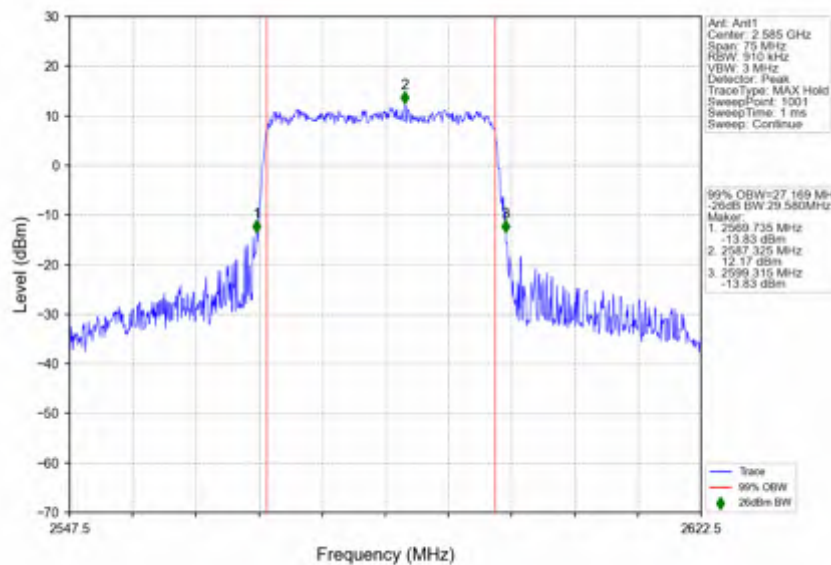
0512-51257350888 0512-51257370911 www.sgs.com.cn

0512-51257350888 0512-51257370911 sgs.china@sgs.com

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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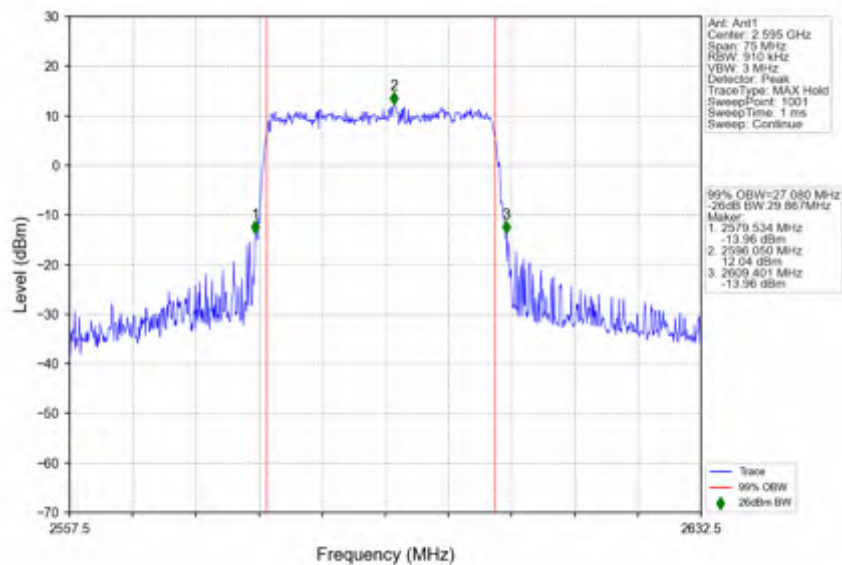
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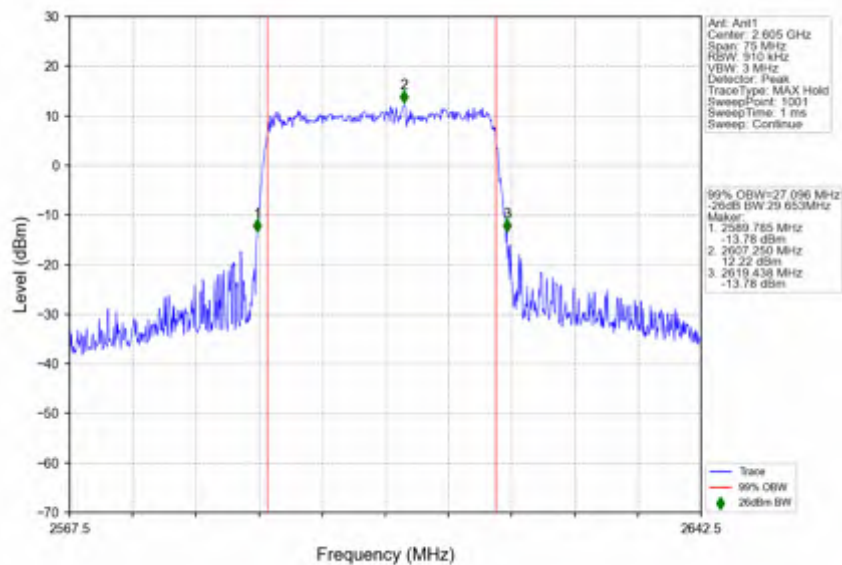
0512-51273700 www.sgs.com.cn

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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2605MHz_Outer_Full



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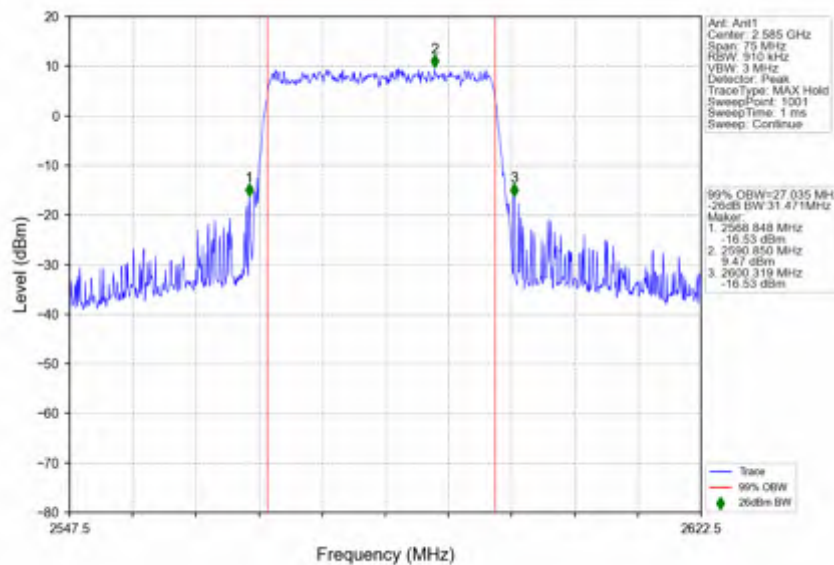
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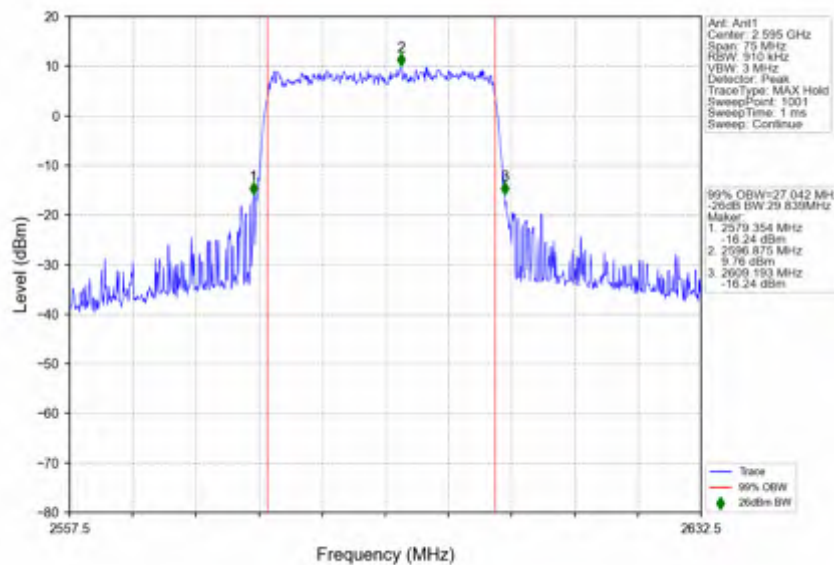
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n38 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 2585MHz Outer Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full

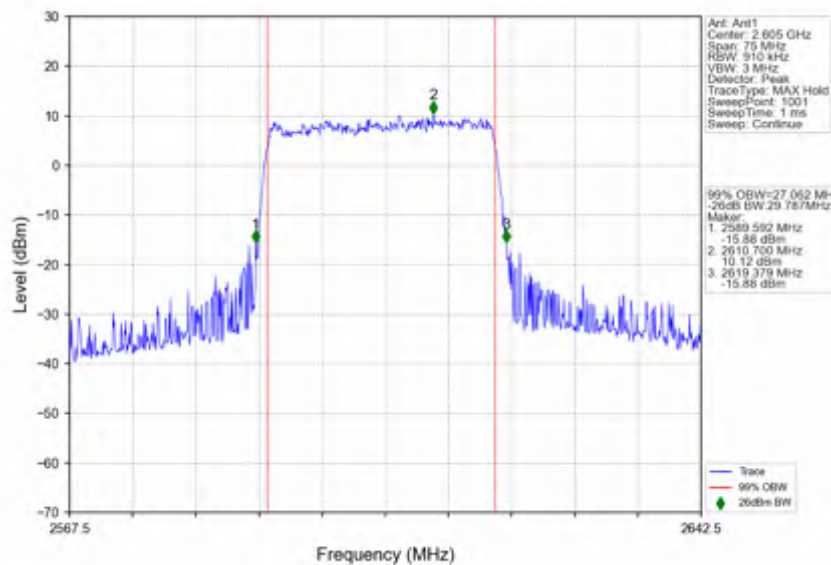


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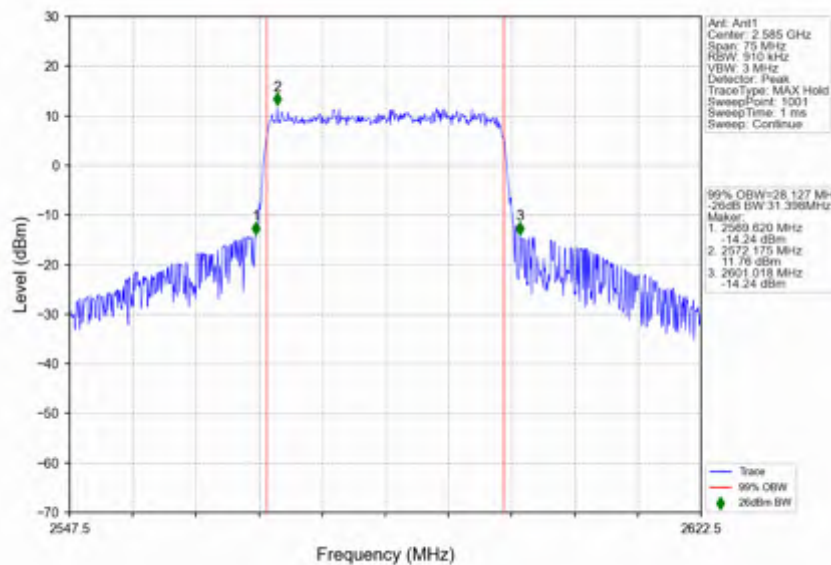
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM 2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK 2585MHz_Outer_Full



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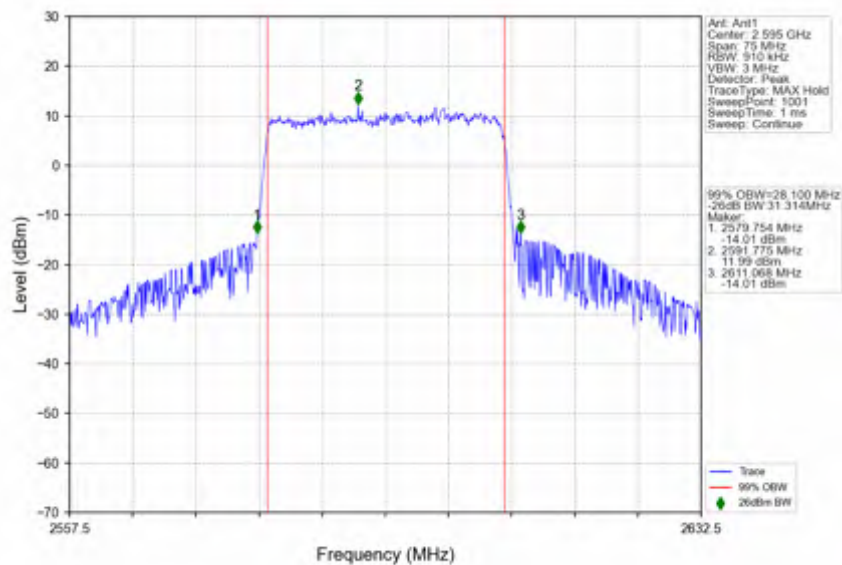
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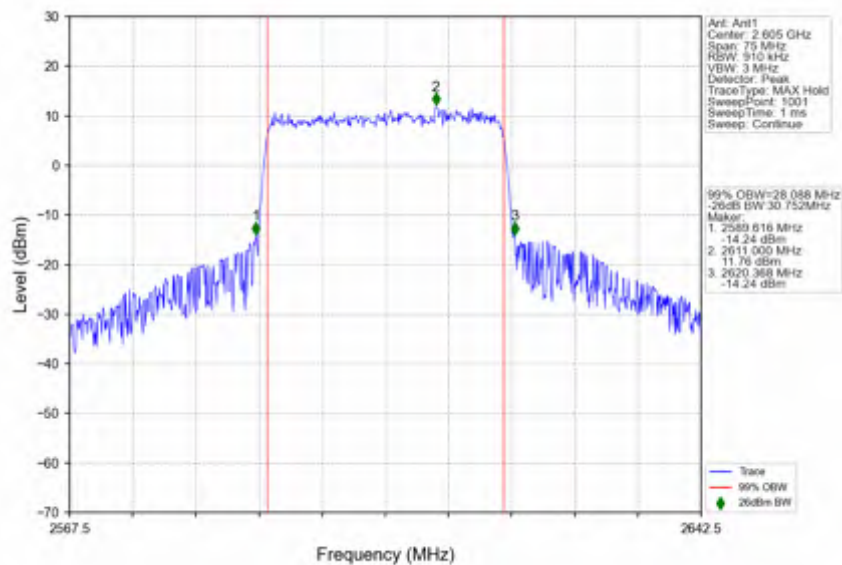
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full



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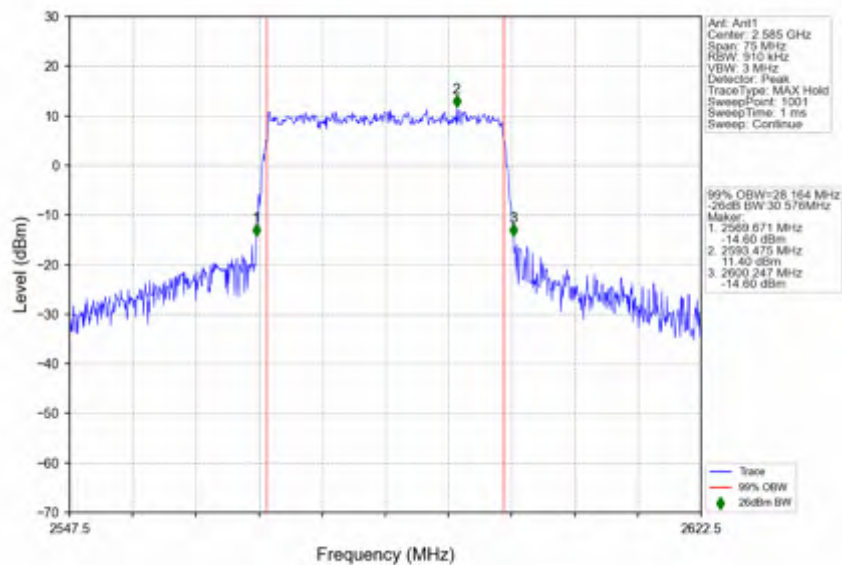
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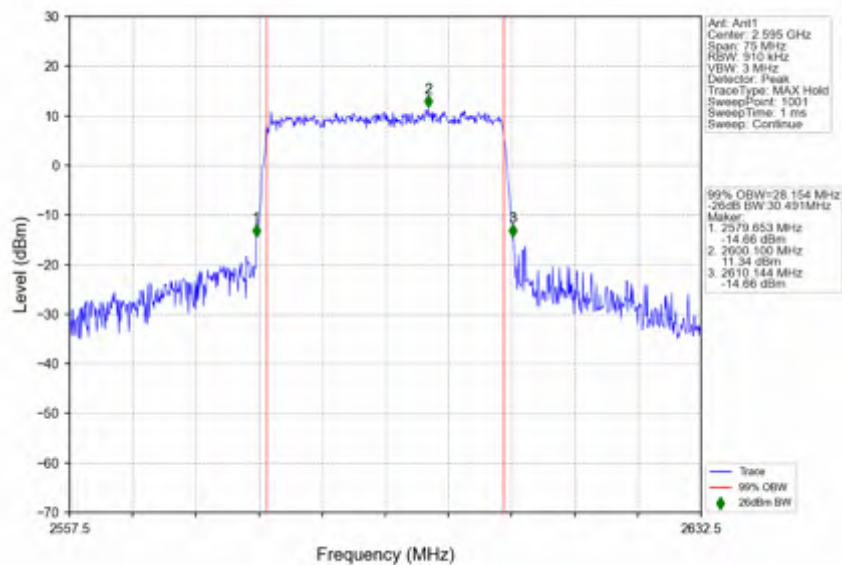
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2585MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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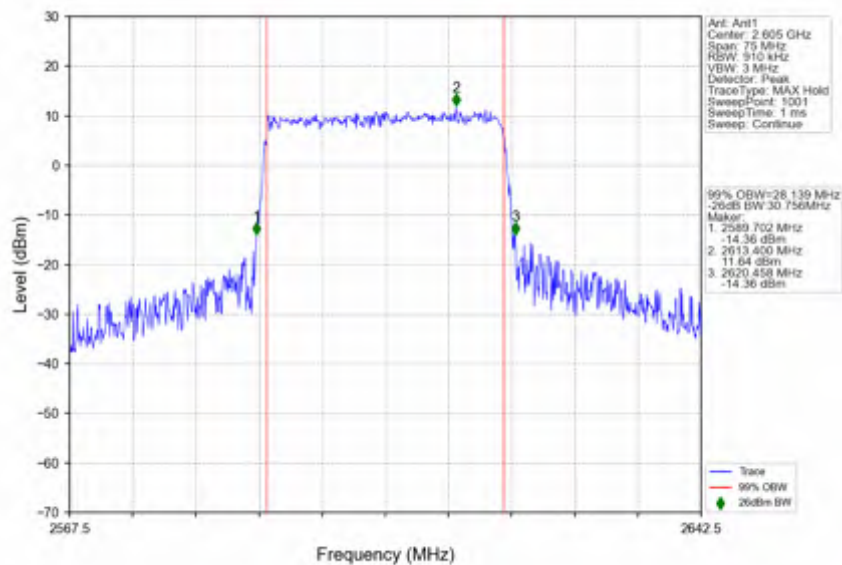
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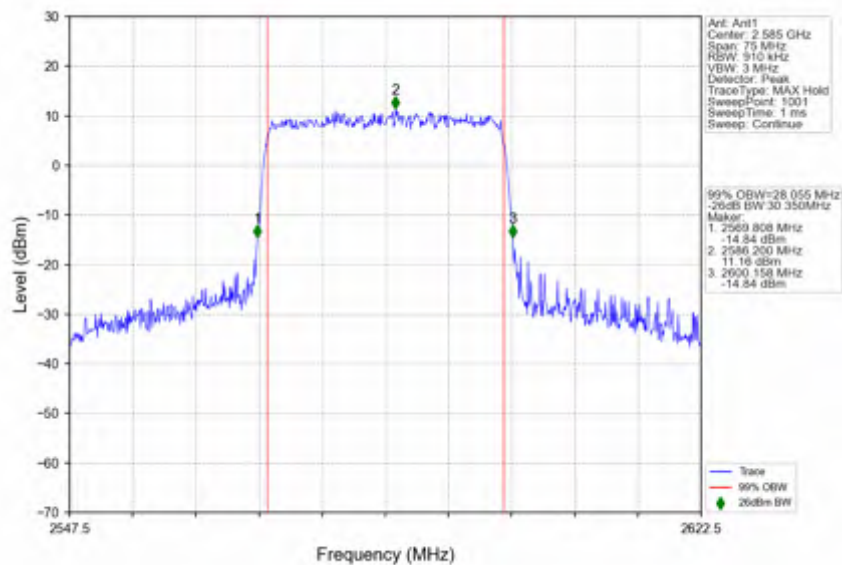
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full



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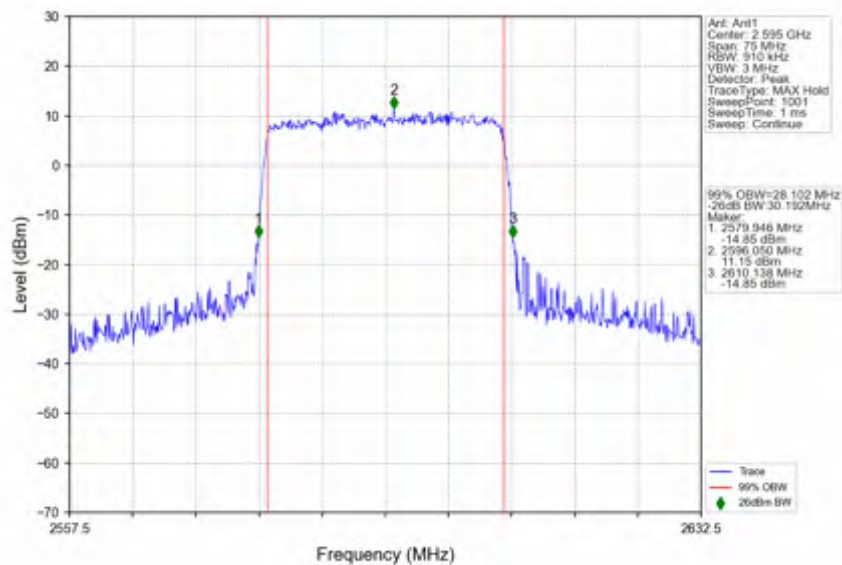
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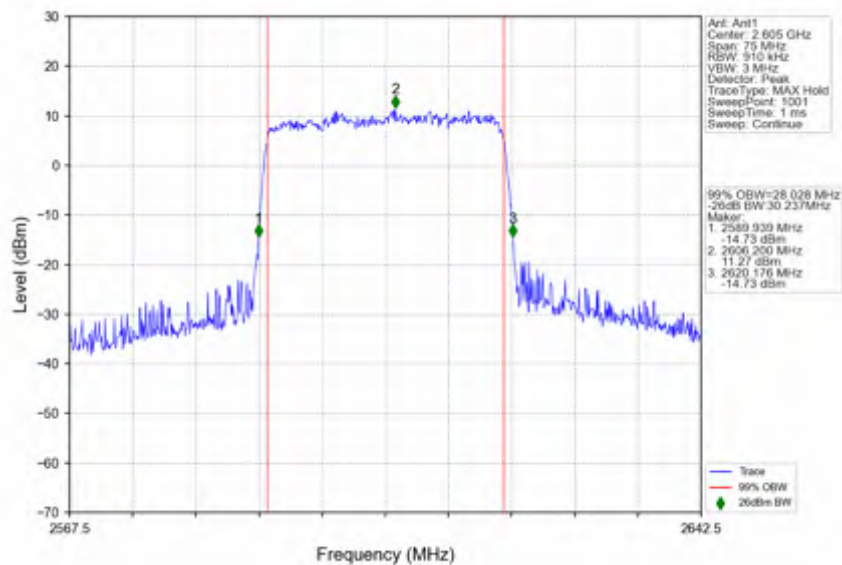
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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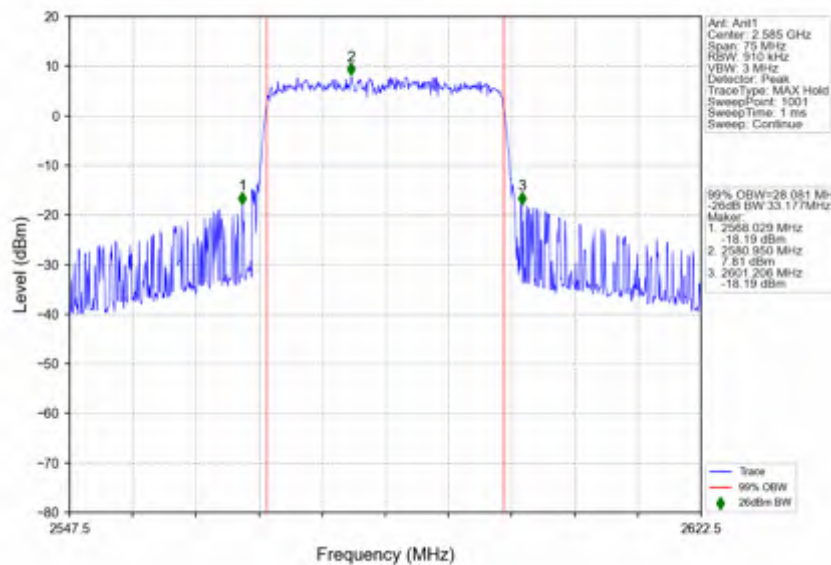
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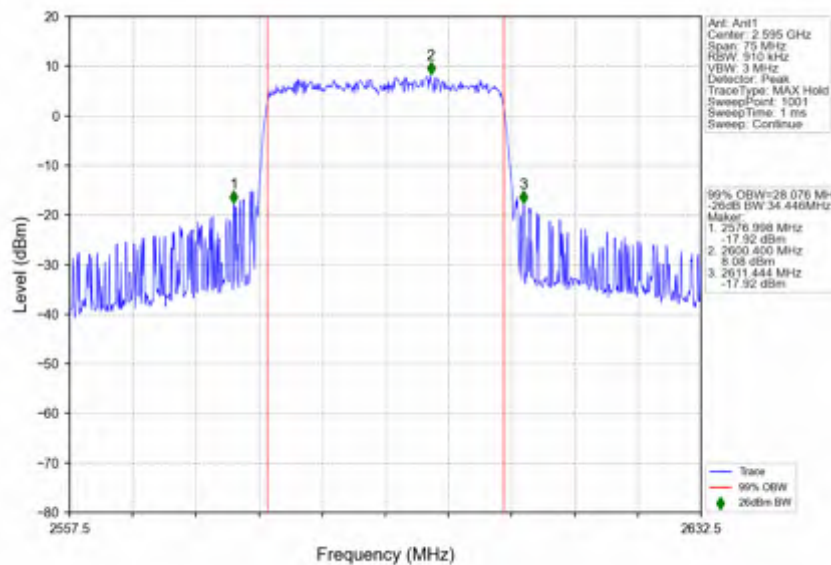
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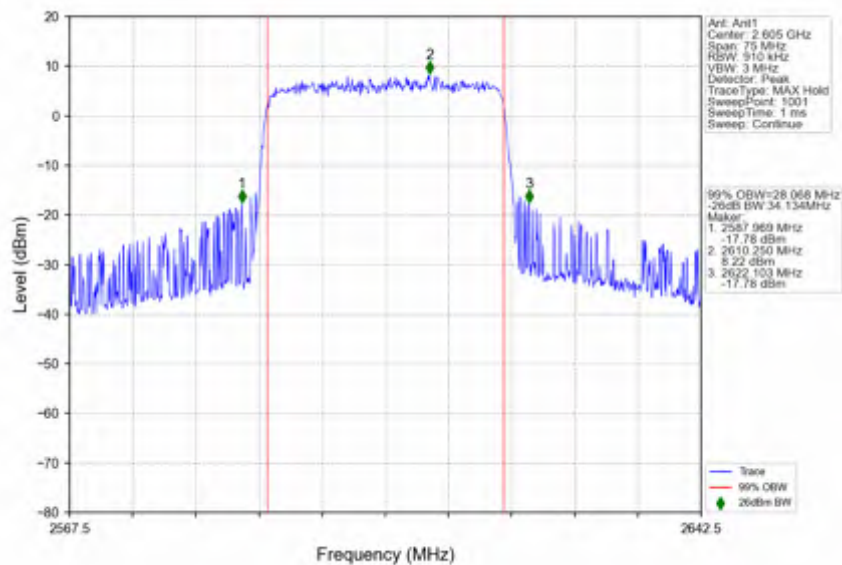
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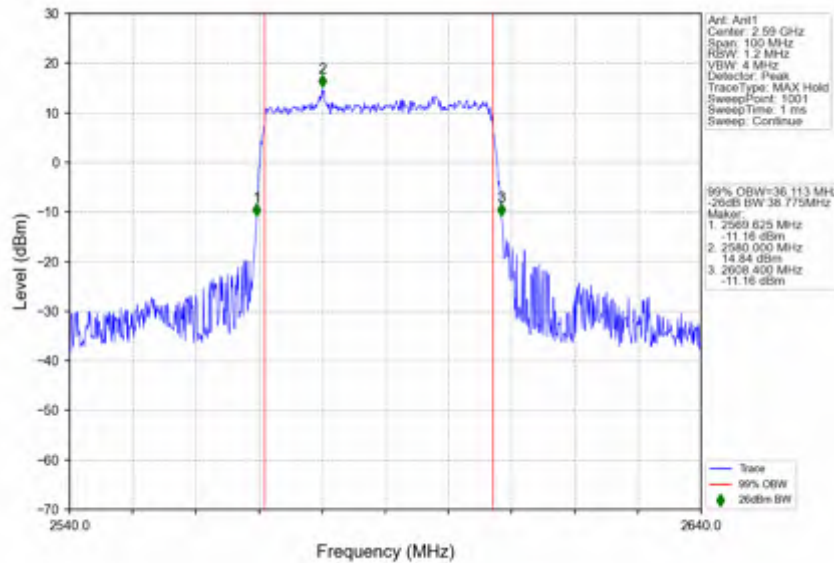
5.13 30k_SISO_40MHz_NTNV

5.13.1 Test Result

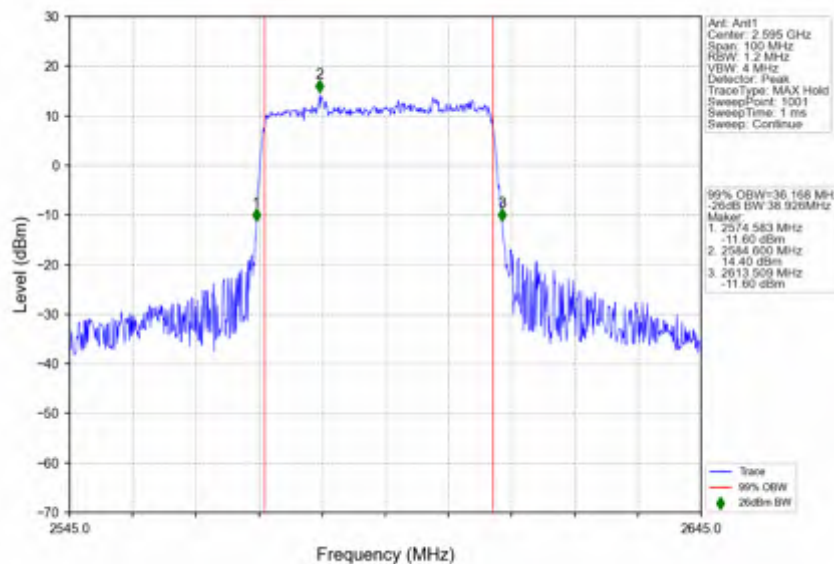
5G NR n38 SCS=30kHz SISO 40MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	36.11	38.77	/	Pass
	2595	Outer_Full	36.17	38.93	/	Pass
	2600	Outer_Full	36.14	38.93	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	36.18	39.17	/	Pass
	2595	Outer_Full	36.23	39.13	/	Pass
	2600	Outer_Full	36.28	39.80	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	36.07	38.77	/	Pass
	2595	Outer_Full	36.09	38.75	/	Pass
	2600	Outer_Full	36.08	38.75	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	36.16	38.97	/	Pass
	2595	Outer_Full	36.11	39.49	/	Pass
	2600	Outer_Full	36.00	39.16	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	36.10	38.99	/	Pass
	2595	Outer_Full	36.07	39.11	/	Pass
	2600	Outer_Full	36.07	39.03	/	Pass
CP-OFDM QPSK	2590	Outer_Full	38.11	40.97	/	Pass
	2595	Outer_Full	38.09	40.88	/	Pass
	2600	Outer_Full	38.14	40.87	/	Pass
CP-OFDM 16 QAM	2590	Outer_Full	38.12	41.48	/	Pass
	2595	Outer_Full	38.27	43.05	/	Pass
	2600	Outer_Full	38.11	41.42	/	Pass
CP-OFDM 64 QAM	2590	Outer_Full	38.20	41.20	/	Pass
	2595	Outer_Full	38.18	41.37	/	Pass
	2600	Outer_Full	38.15	41.61	/	Pass
CP-OFDM 256 QAM	2590	Outer_Full	38.11	40.97	/	Pass
	2595	Outer_Full	38.15	40.94	/	Pass
	2600	Outer_Full	38.09	41.21	/	Pass

5.13.2 Test Graph

n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



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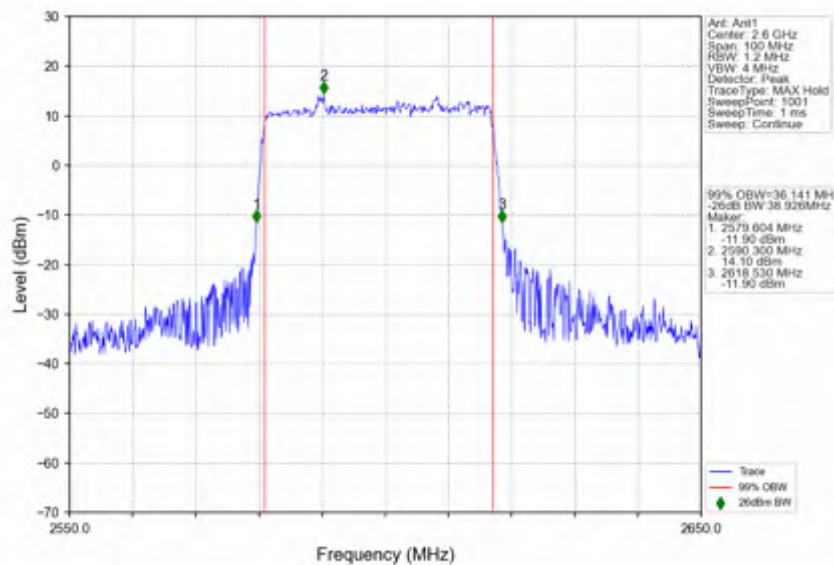
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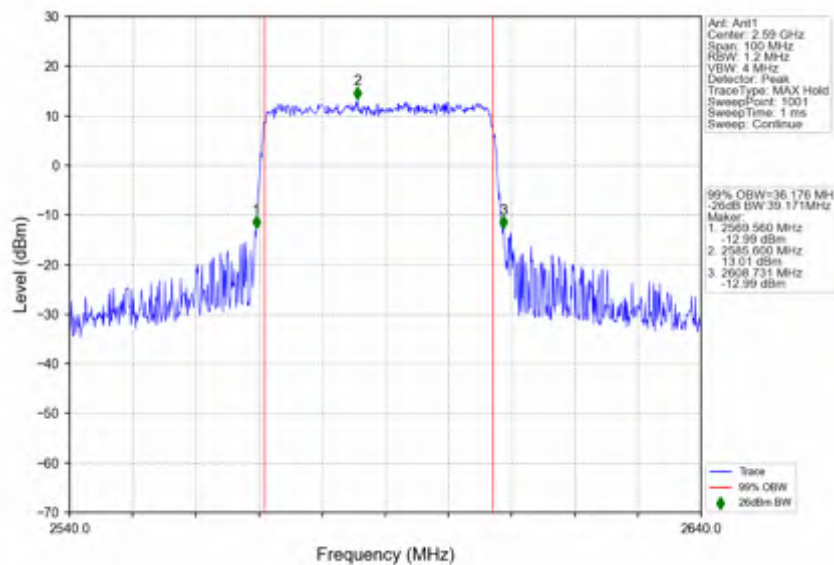
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



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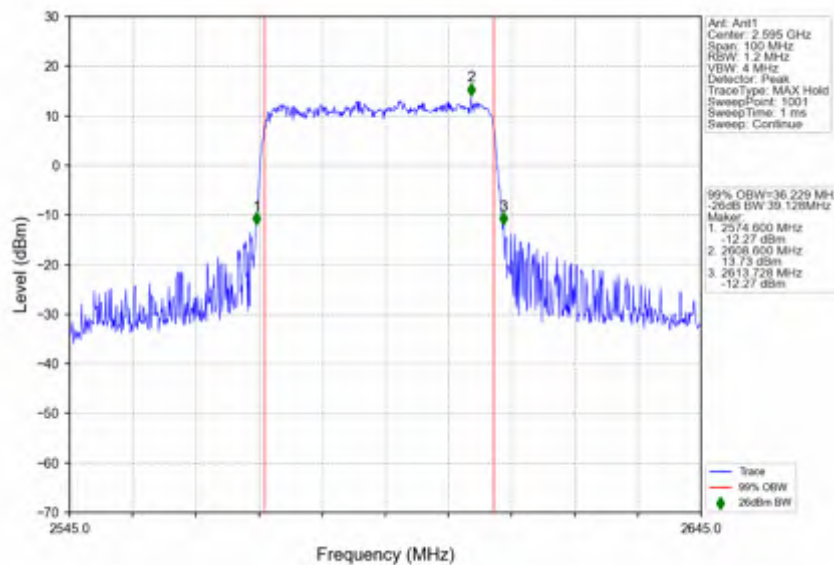
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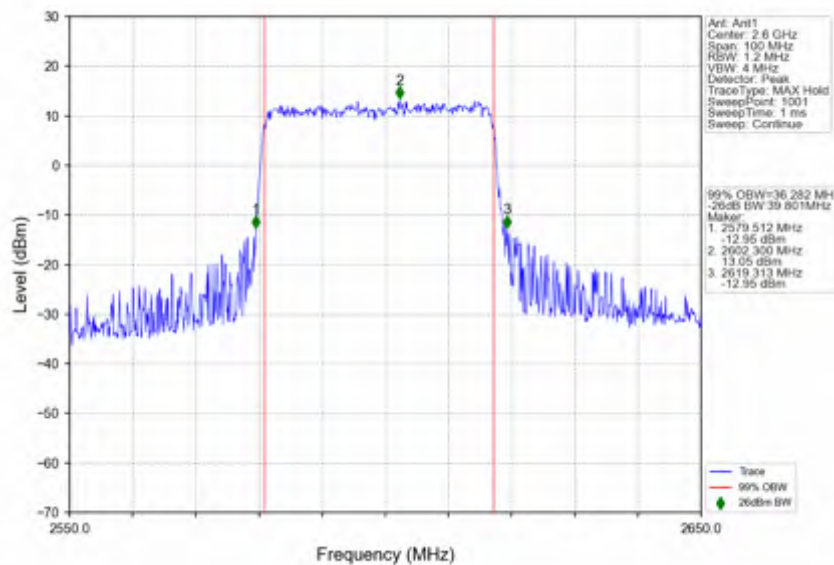
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2600MHz_Outer_Full

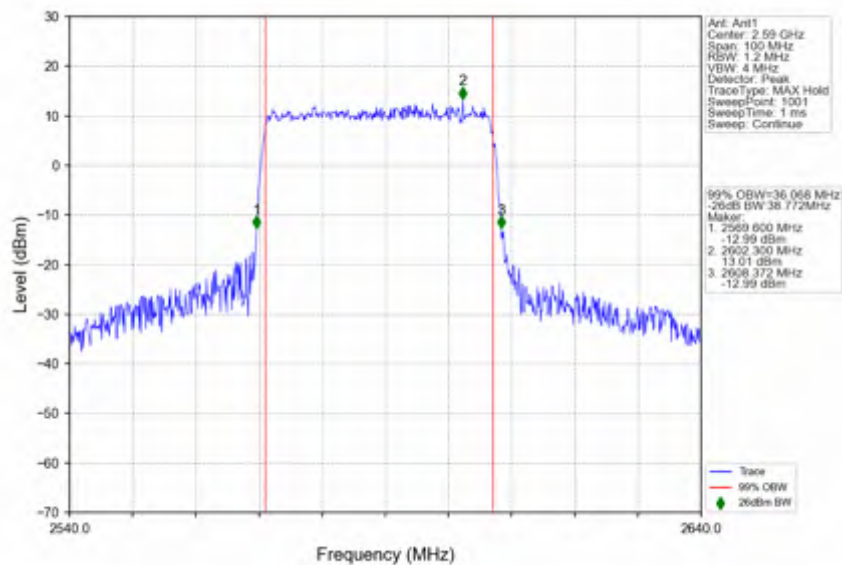


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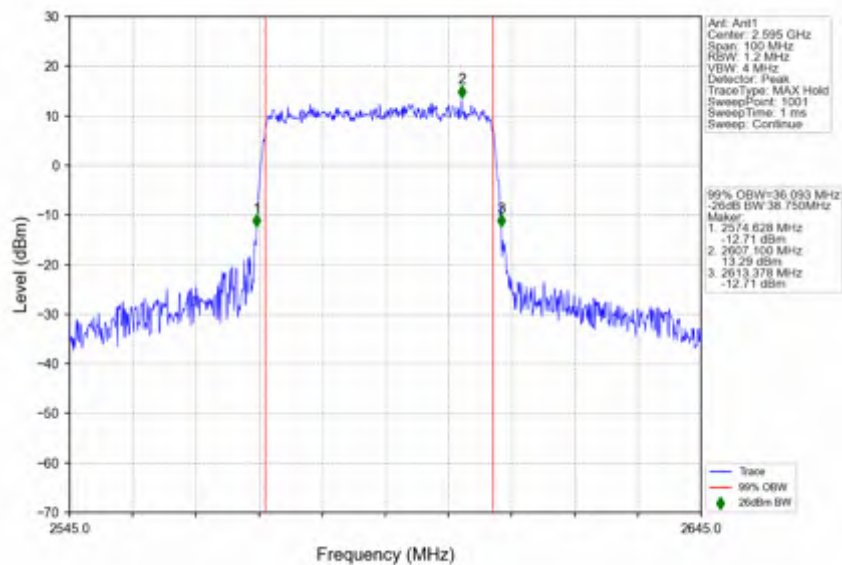
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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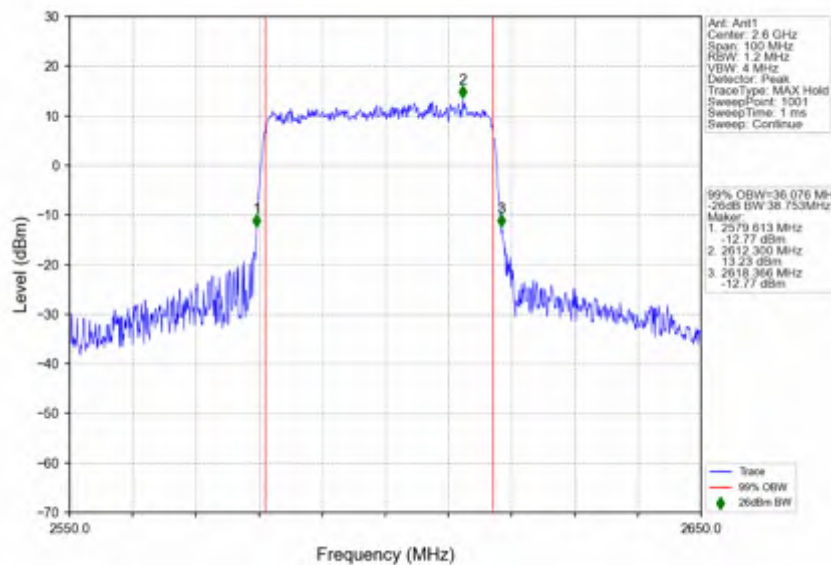
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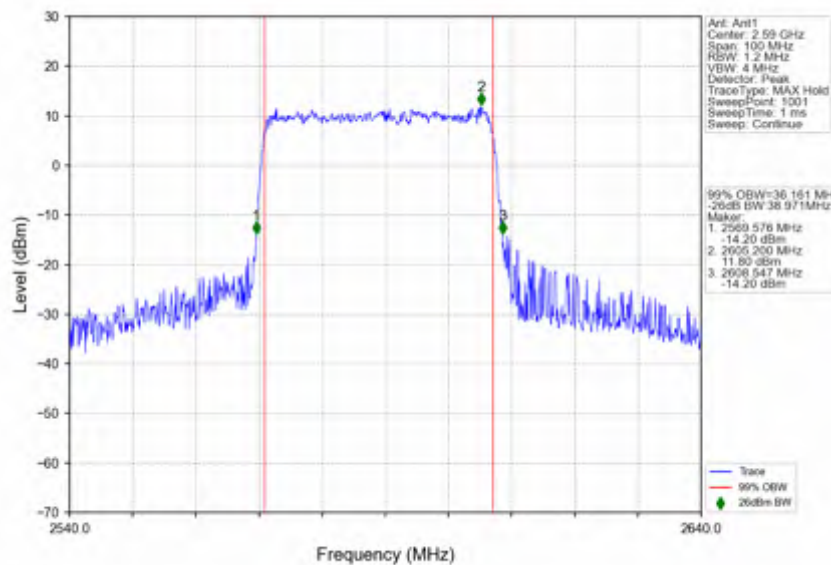
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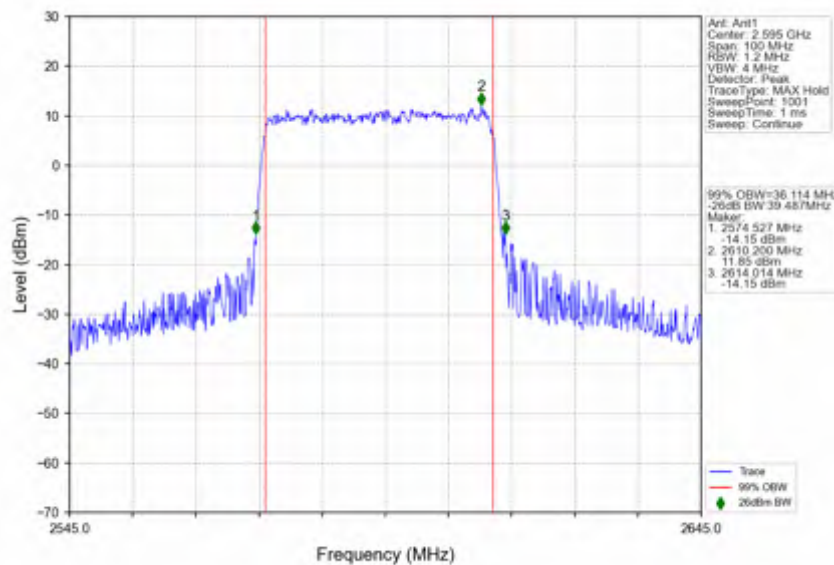


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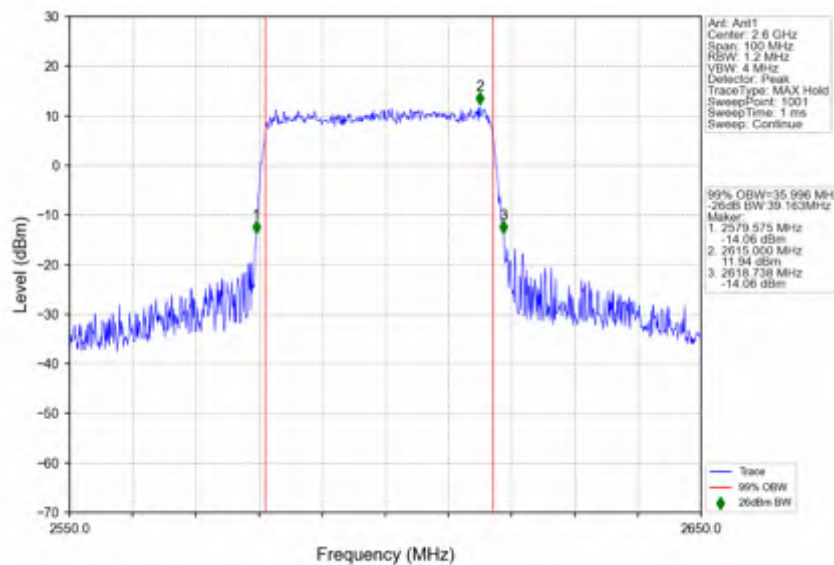
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n38 30kHz SISO NTNV 40MHz DFT-s-OFDM 64 QAM 2595MHz Outer Full



n38 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 2600MHz Outer Full

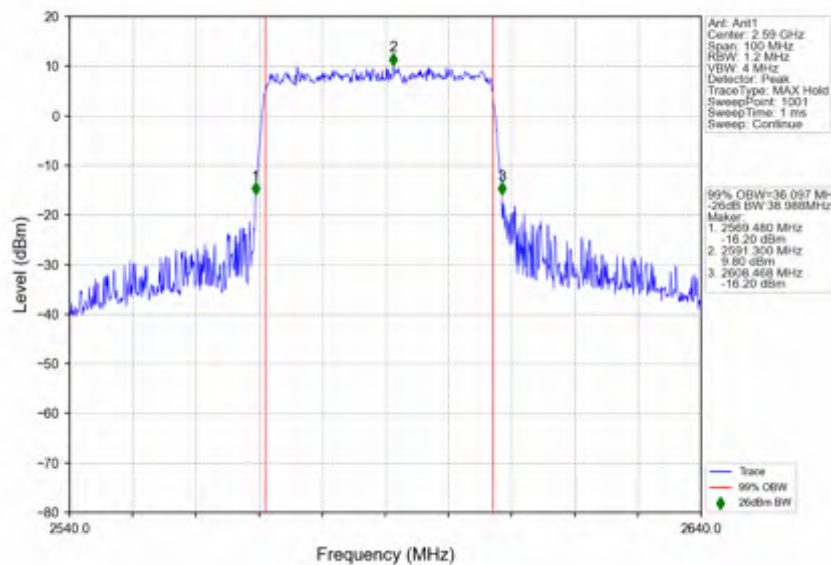


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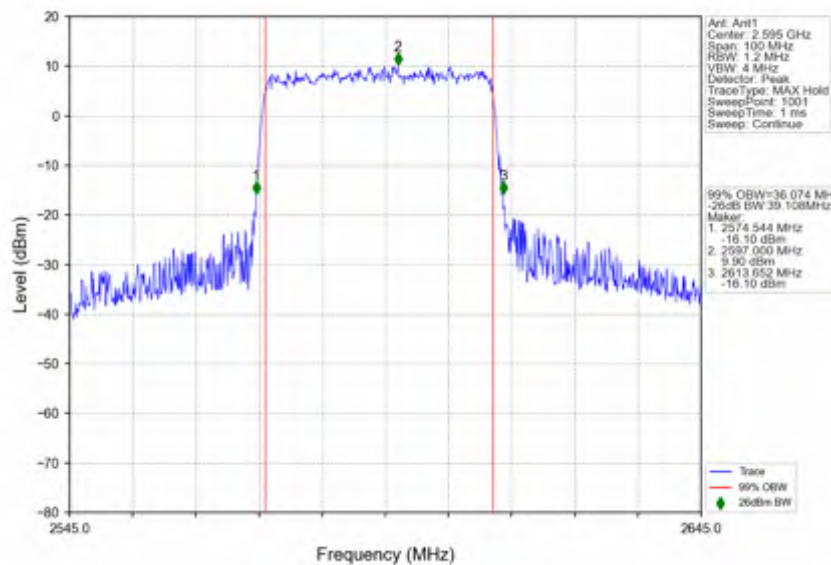
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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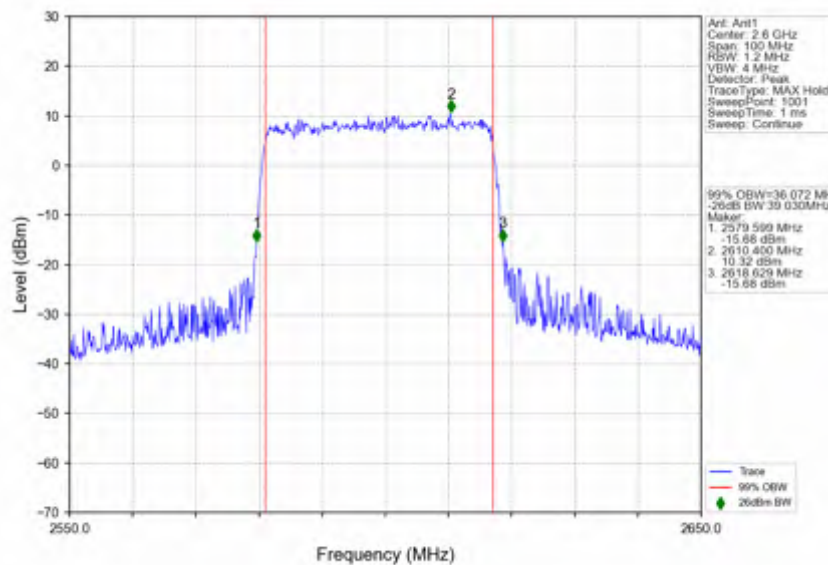
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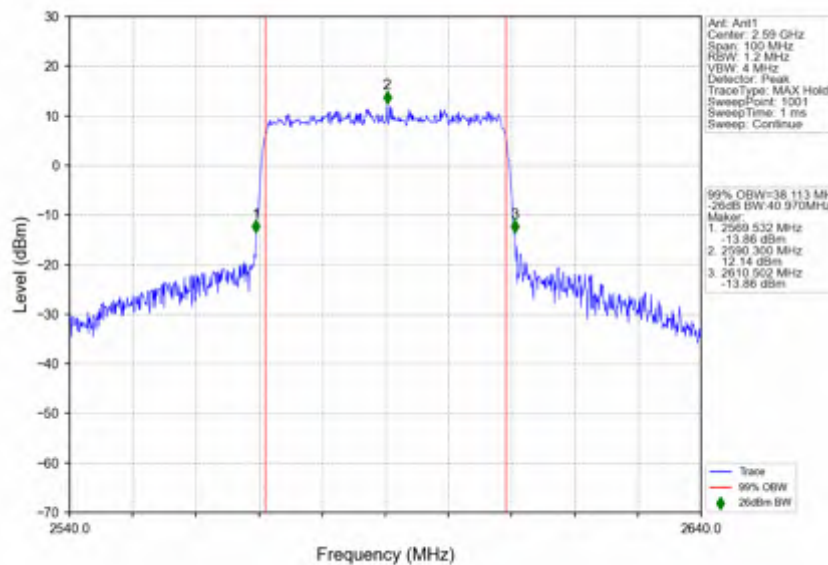
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK 2590MHz_Outer_Full



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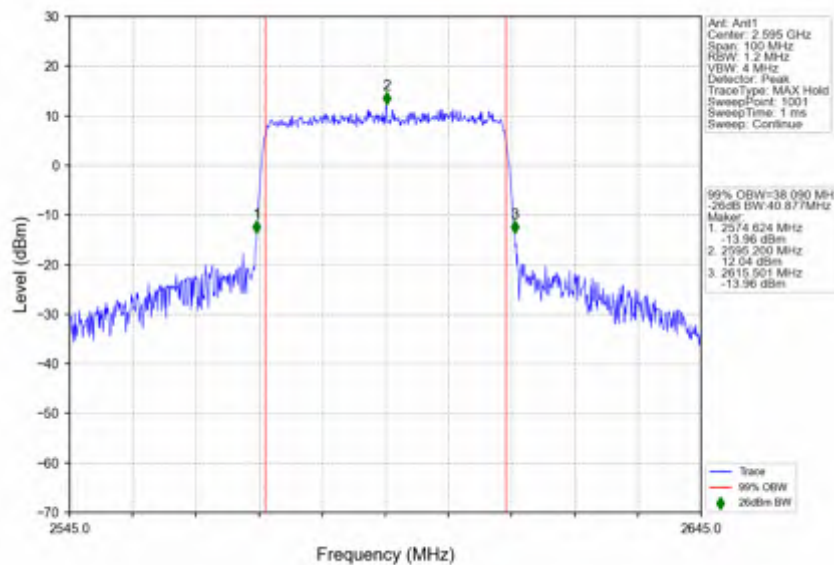
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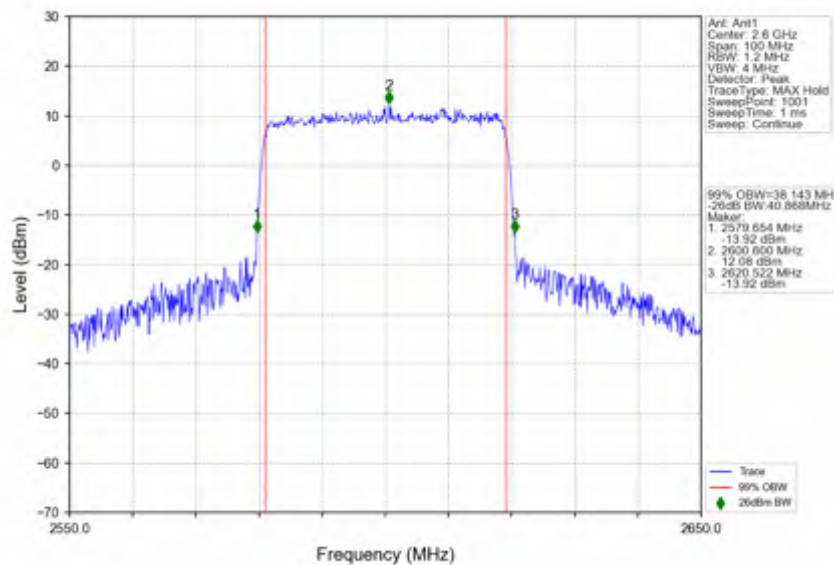
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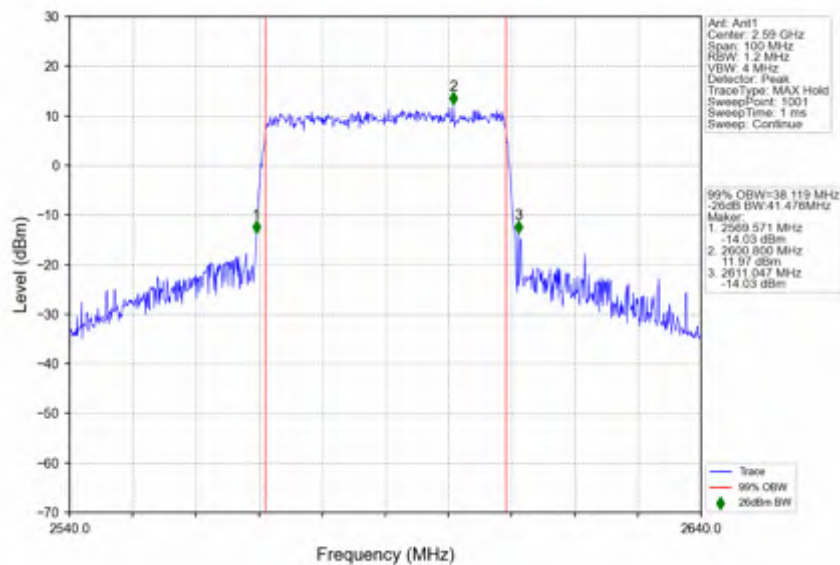


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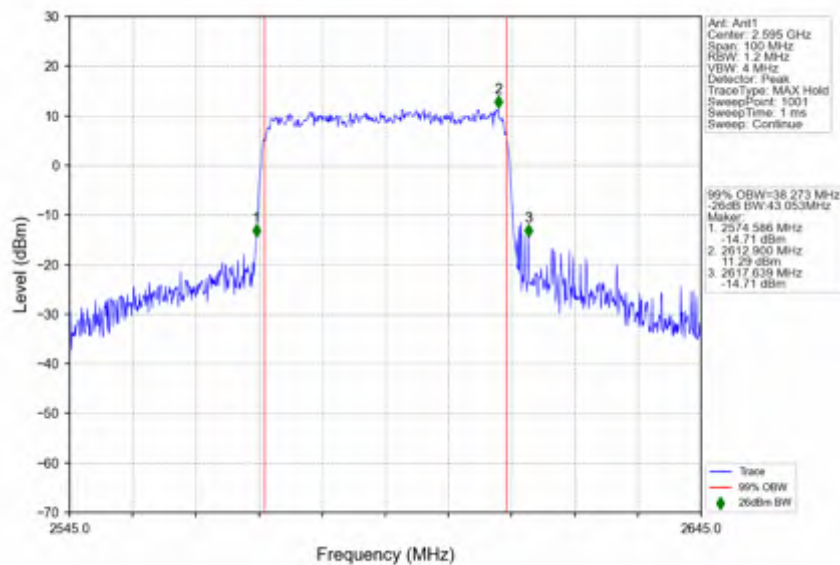
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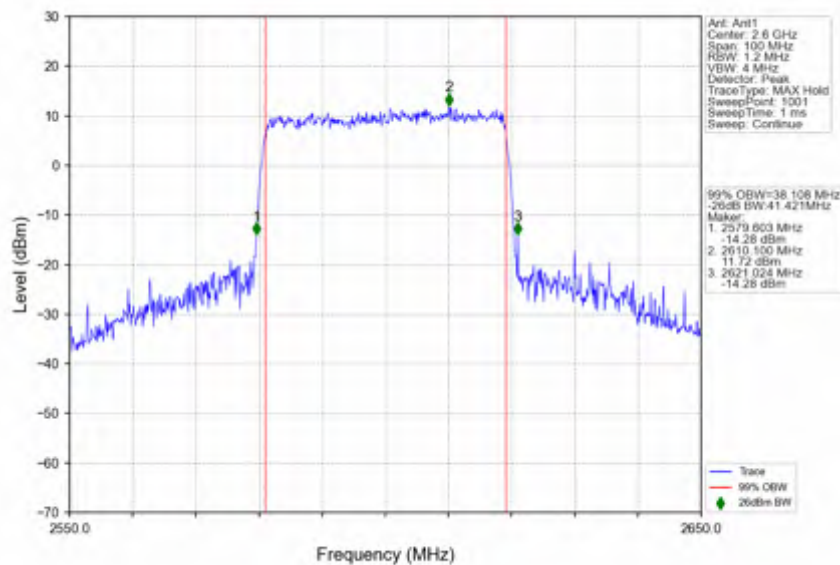
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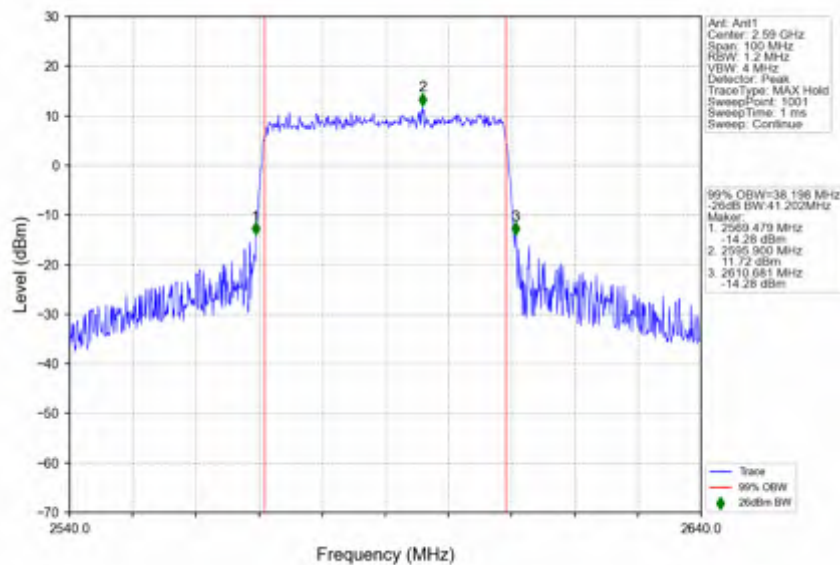
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



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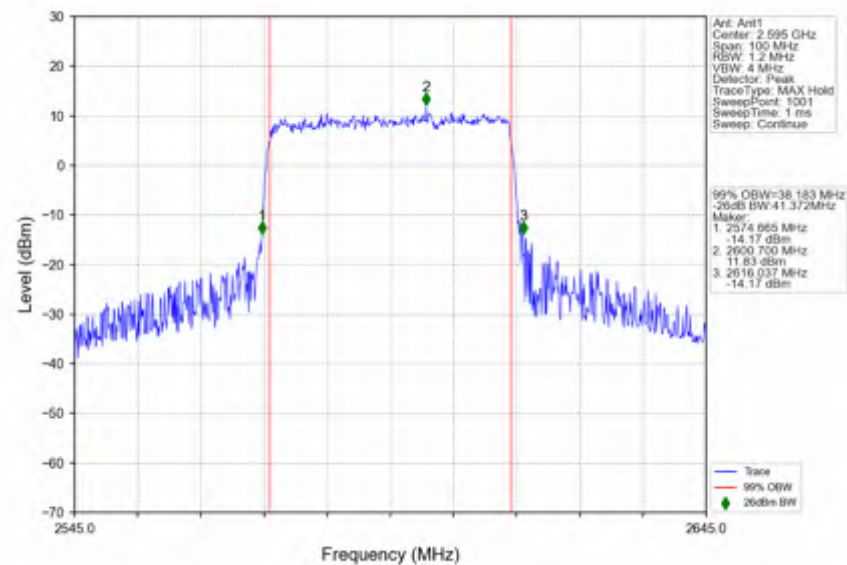
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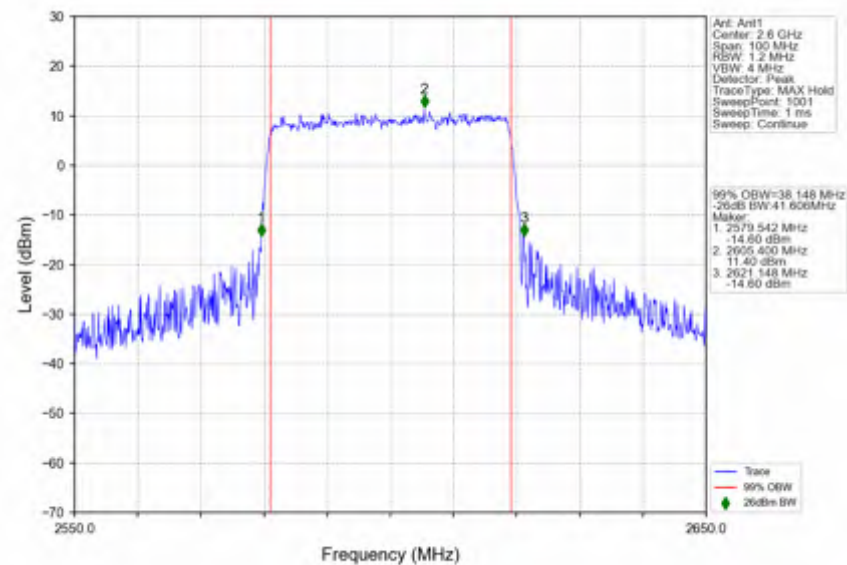
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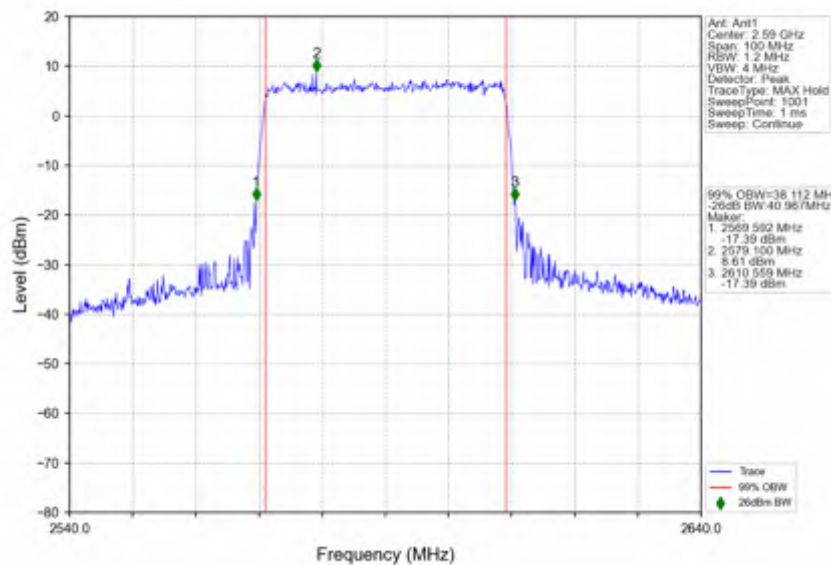
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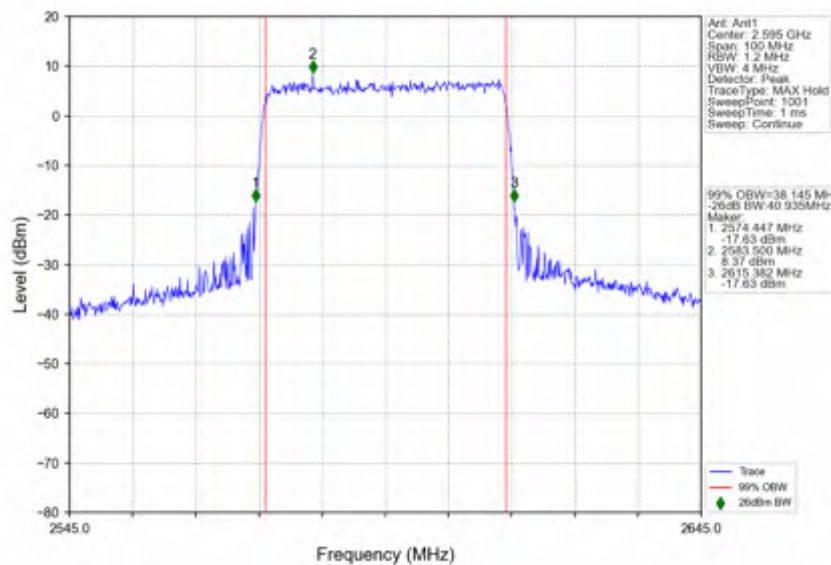
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0512-57370910

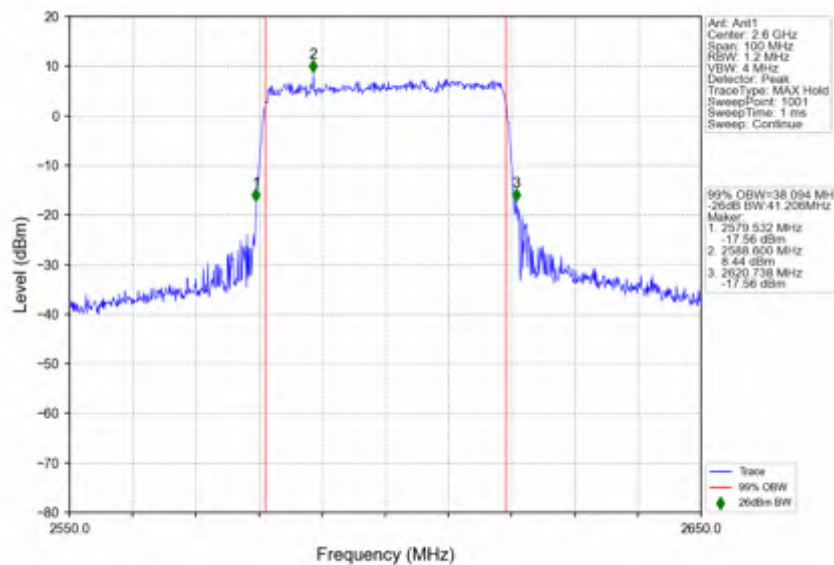
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sgs.china@sgs.com

n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2600MHz_Outer_Full



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6. 99% & 26dB Bandwidth

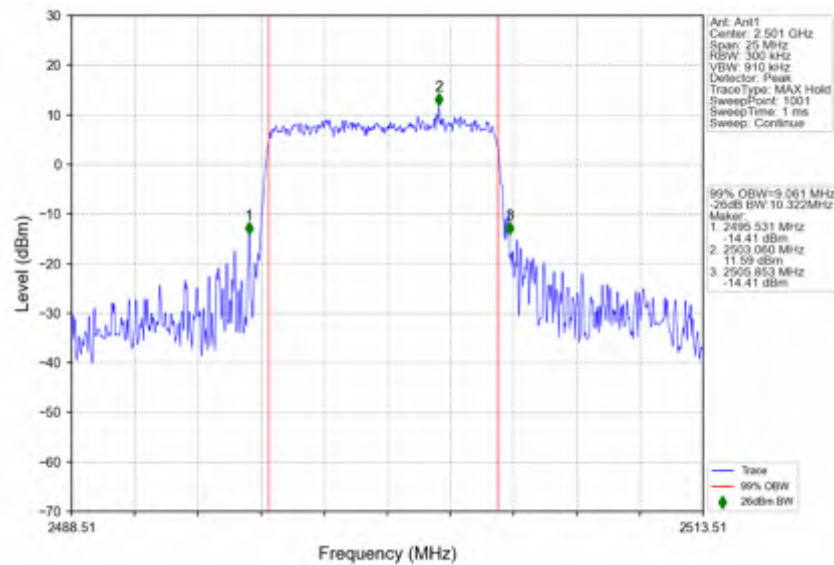
6.1 n41 15k_SISO_10MHz_NTNV

6.1.1 Test Result

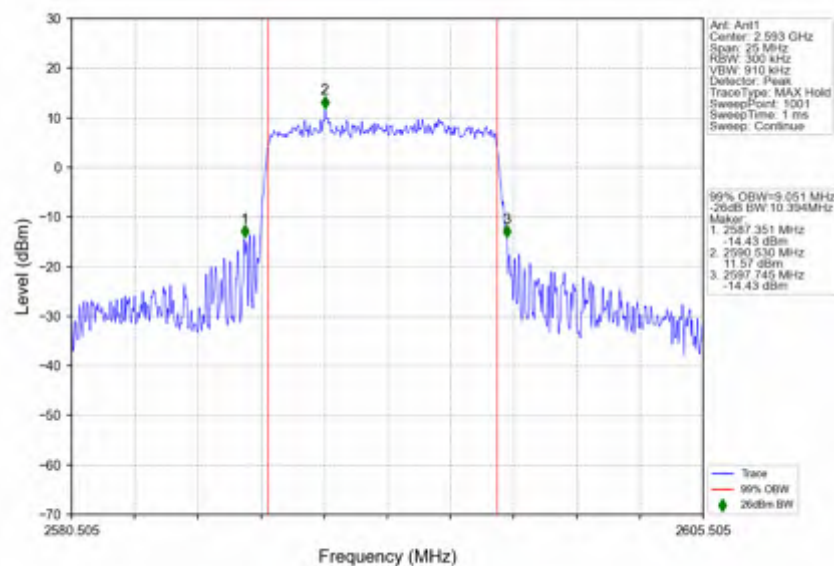
5G NR n41 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2501.01	Outer_Full	9.06	10.32	/	Pass
	2593.005	Outer_Full	9.05	10.39	/	Pass
	2685	Outer_Full	9.05	10.82	/	Pass
DFT-s-OFDM QPSK	2501.01	Outer_Full	9.05	9.88	/	Pass
	2593.005	Outer_Full	9.07	9.90	/	Pass
	2685	Outer_Full	9.04	10.17	/	Pass
DFT-s-OFDM 16 QAM	2501.01	Outer_Full	9.06	10.54	/	Pass
	2593.005	Outer_Full	9.08	10.62	/	Pass
	2685	Outer_Full	9.09	10.77	/	Pass
DFT-s-OFDM 64 QAM	2501.01	Outer_Full	9.04	10.24	/	Pass
	2593.005	Outer_Full	9.05	10.10	/	Pass
	2685	Outer_Full	9.06	10.26	/	Pass
DFT-s-OFDM 256 QAM	2501.01	Outer_Full	9.08	10.23	/	Pass
	2593.005	Outer_Full	9.05	10.33	/	Pass
	2685	Outer_Full	9.06	10.26	/	Pass
CP-OFDM QPSK	2501.01	Outer_Full	9.42	13.10	/	Pass
	2593.005	Outer_Full	9.39	12.06	/	Pass
	2685	Outer_Full	9.42	11.43	/	Pass
CP-OFDM 16 QAM	2501.01	Outer_Full	9.38	12.03	/	Pass
	2593.005	Outer_Full	9.44	11.37	/	Pass
	2685	Outer_Full	9.40	11.44	/	Pass
CP-OFDM 64 QAM	2501.01	Outer_Full	9.37	11.53	/	Pass
	2593.005	Outer_Full	9.41	11.61	/	Pass
	2685	Outer_Full	9.40	10.90	/	Pass
CP-OFDM 256 QAM	2501.01	Outer_Full	9.37	10.44	/	Pass
	2593.005	Outer_Full	9.36	10.71	/	Pass
	2685	Outer_Full	9.41	10.46	/	Pass

6.1.2 Test Graph

n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Outer_Full



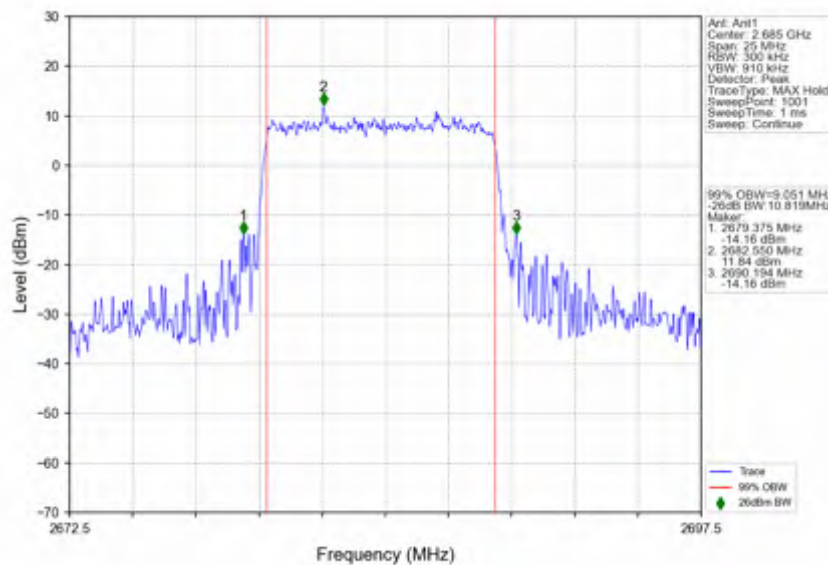
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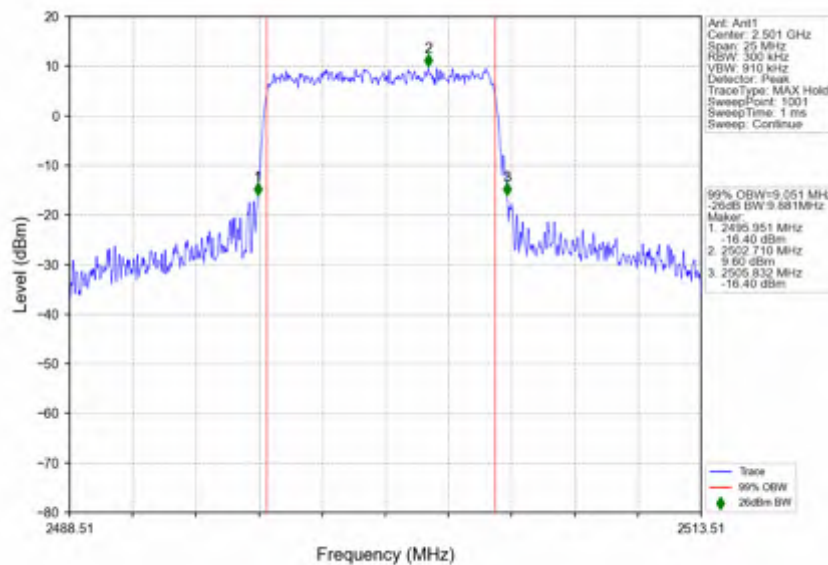
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Outer_Full



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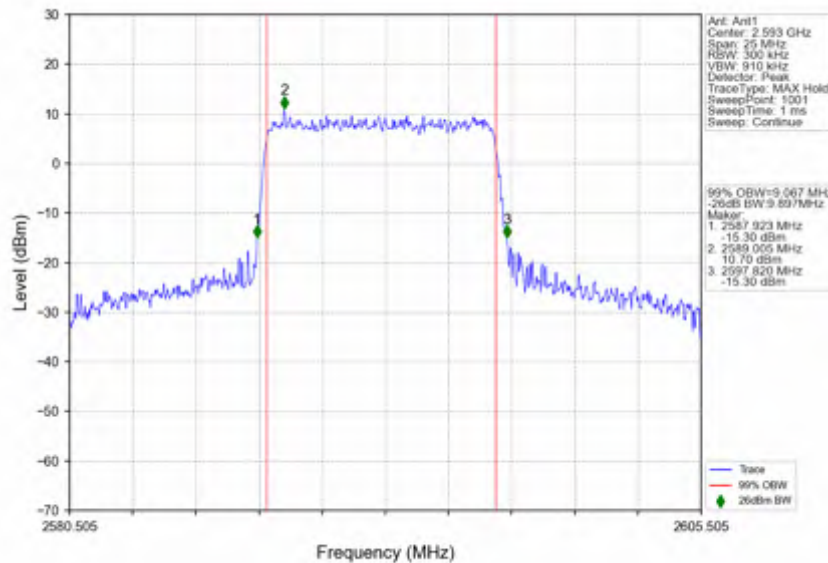
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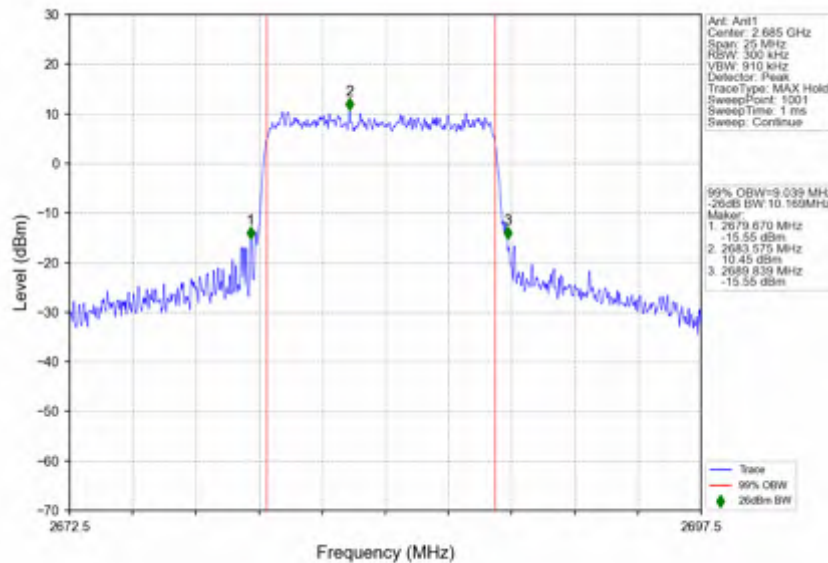
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Outer_Full



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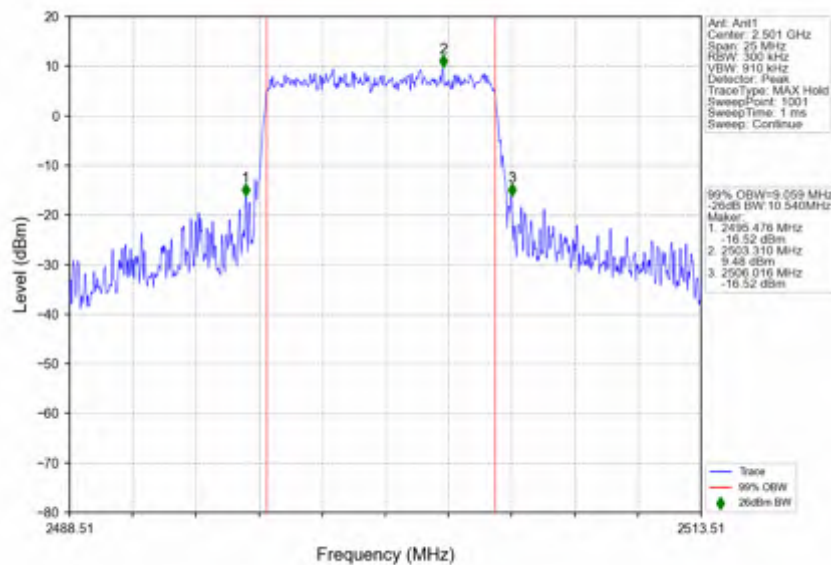
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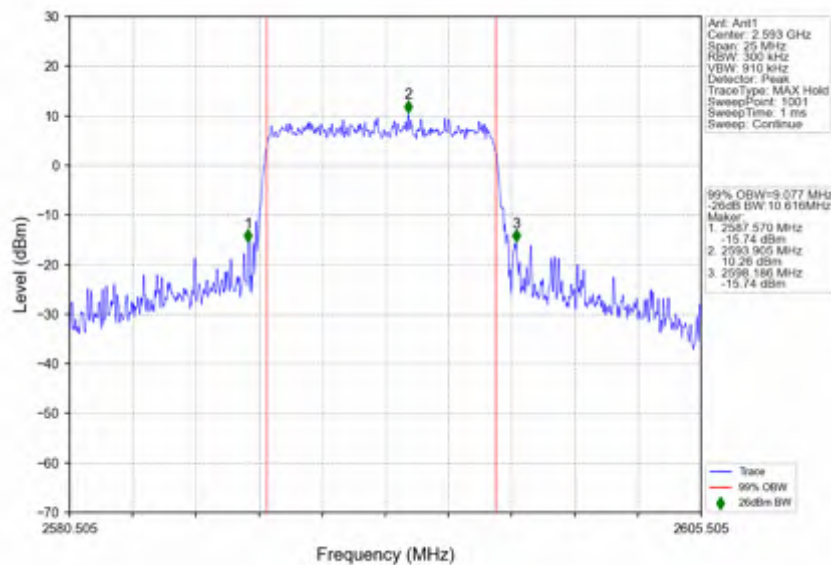
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2501.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2593.005MHz_Outer_Full



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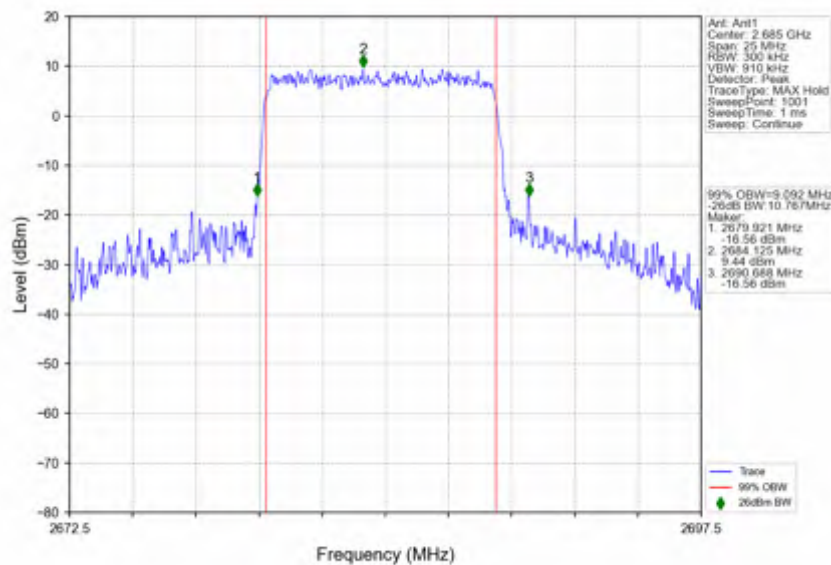
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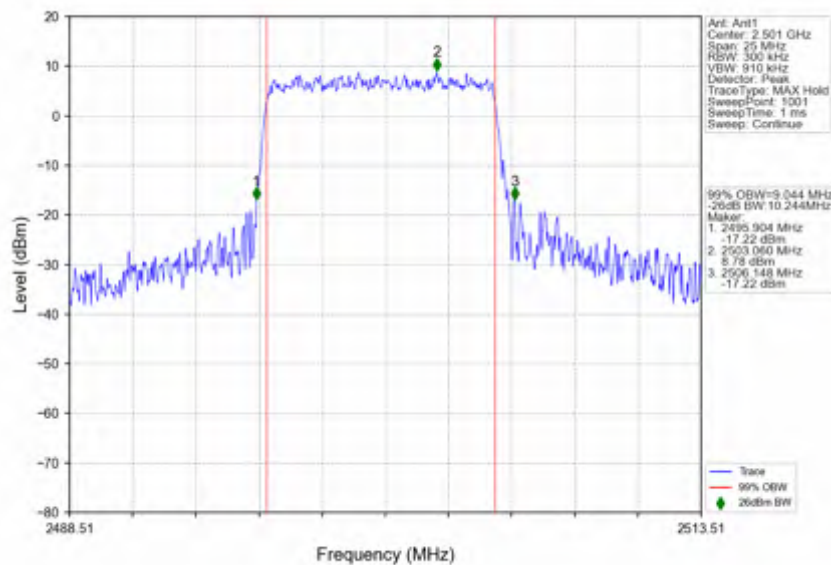
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2685MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2501.01MHz_Outer_Full



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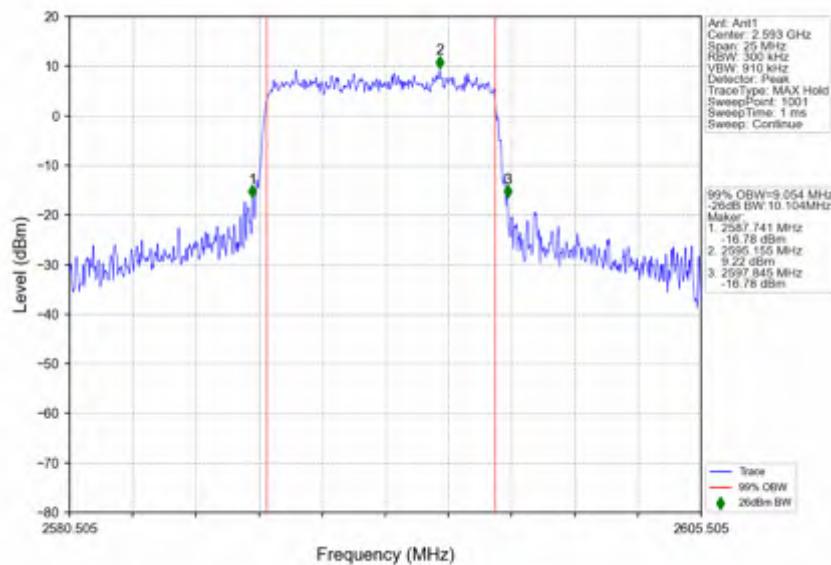
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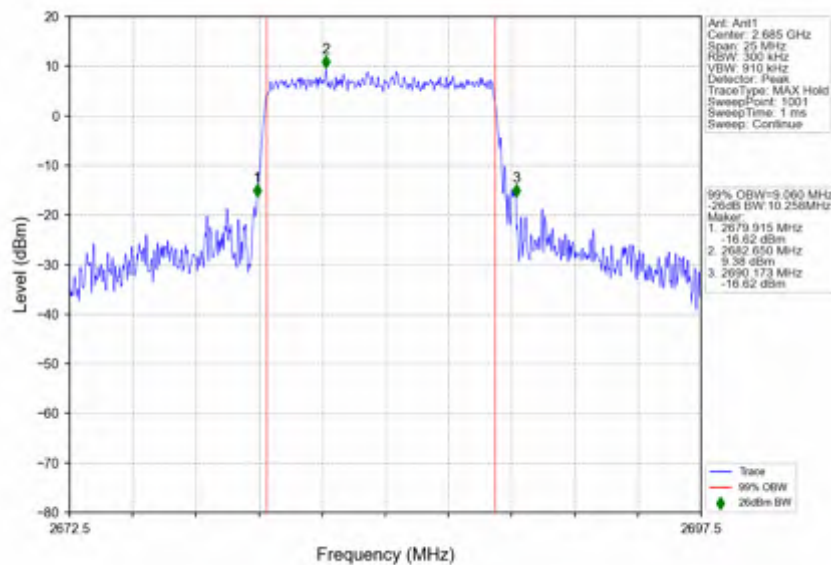
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2685MHz_Outer_Full



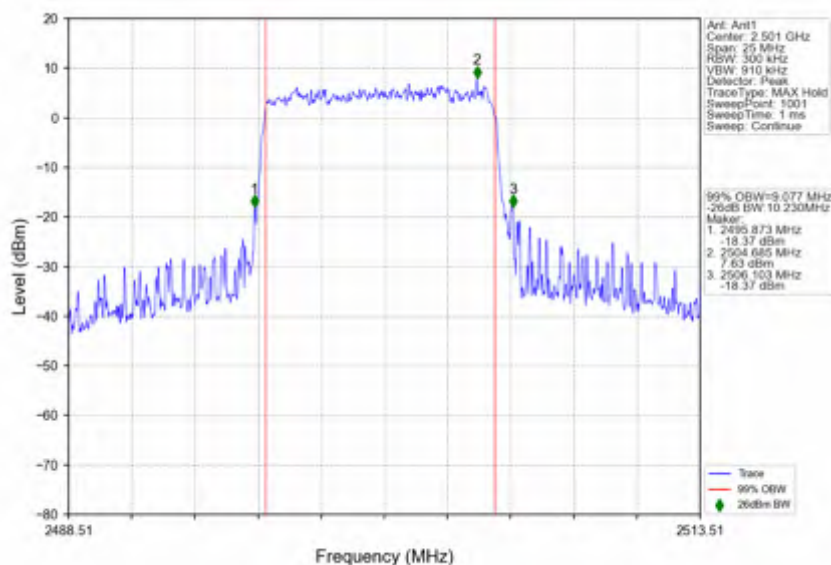
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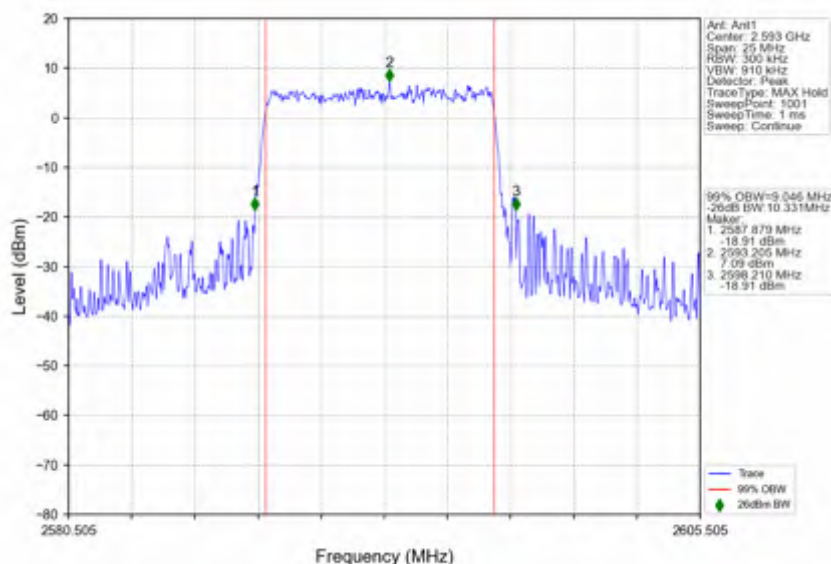
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n41	15kHz	SISO	NTNV	10MHz	DFT-s-OFDM	256 QAM	2501.01MHz	Outer	Full
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n41	15kHz	SISO	NTNV	10MHz	DFT-s-OFDM	256	OAM	2593.005MHz	Outer	Full
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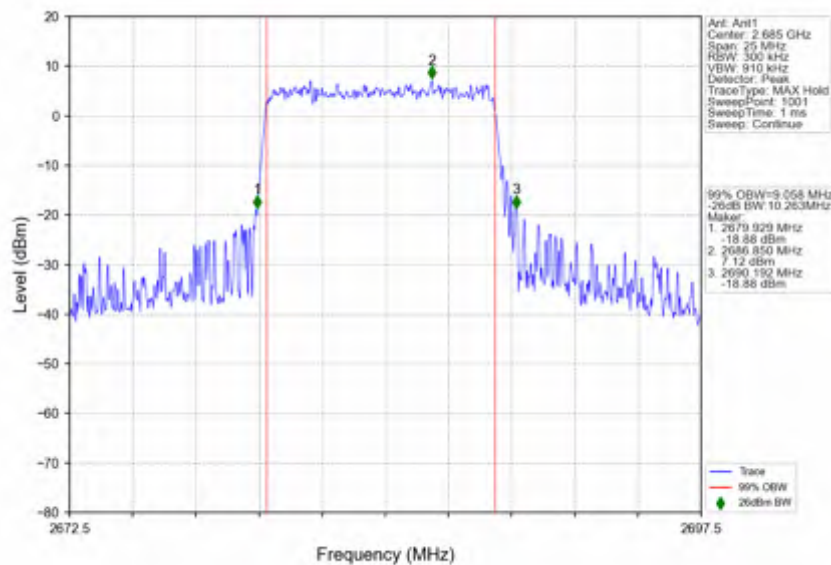


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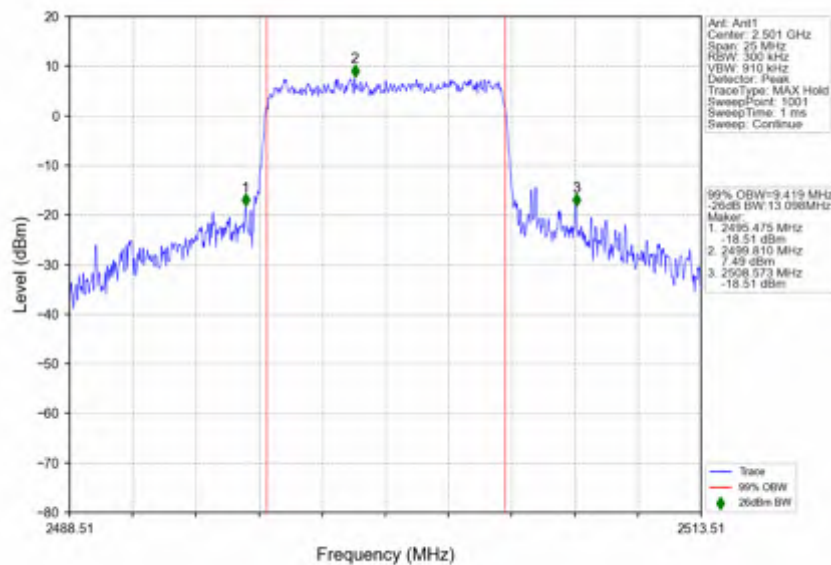
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2501.01MHz_Outer_Full

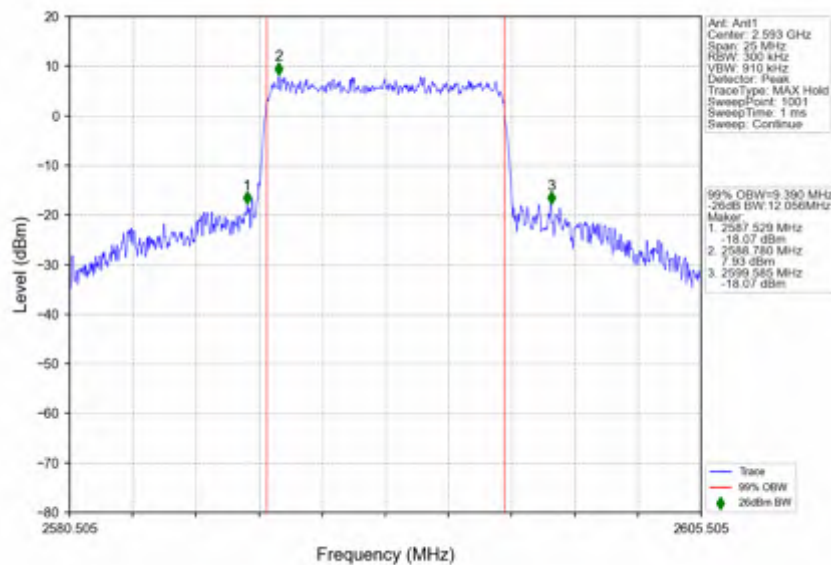


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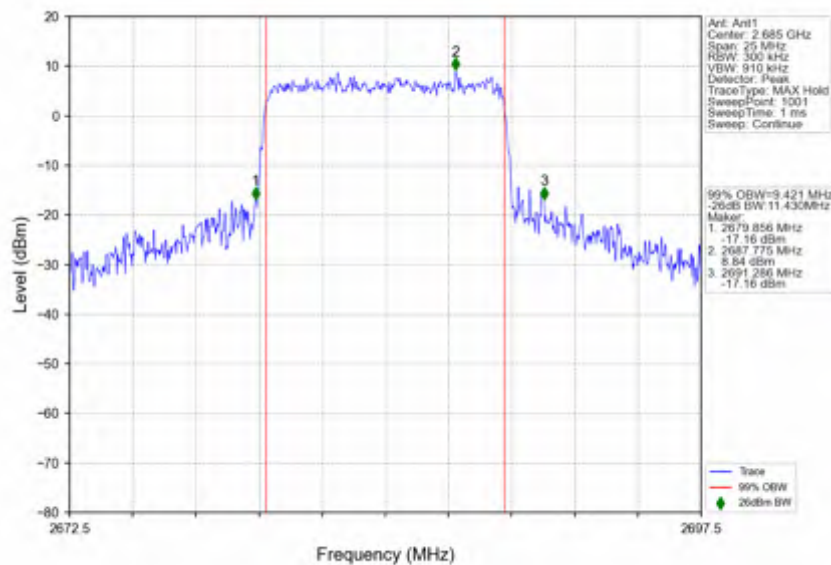
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n41_15kHz_SISO_NTV_10MHz_CP-OFDM_QPSK_2685MHz_Outer_Full

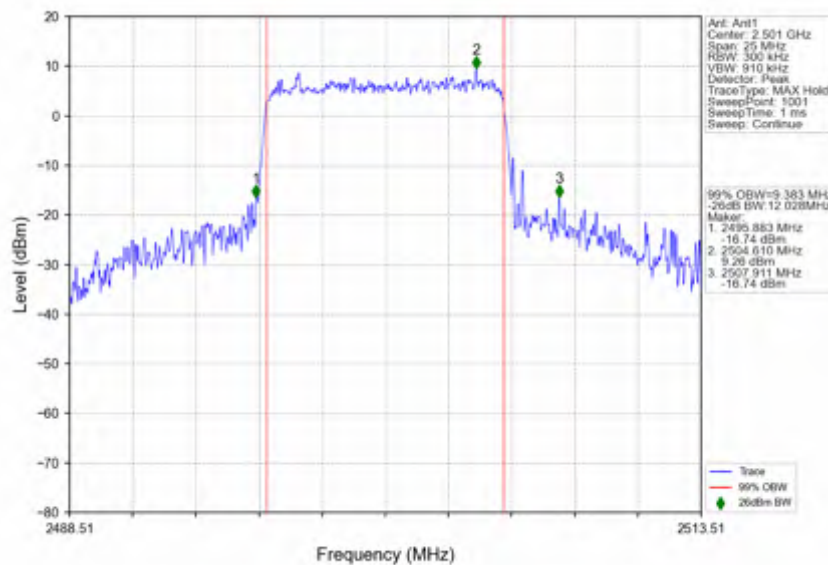


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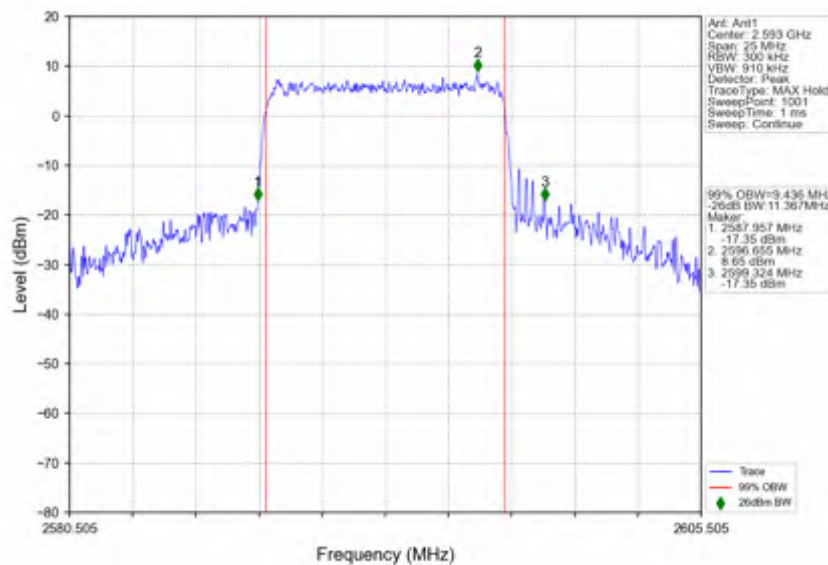
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_2593.005MHz_Outer_Full



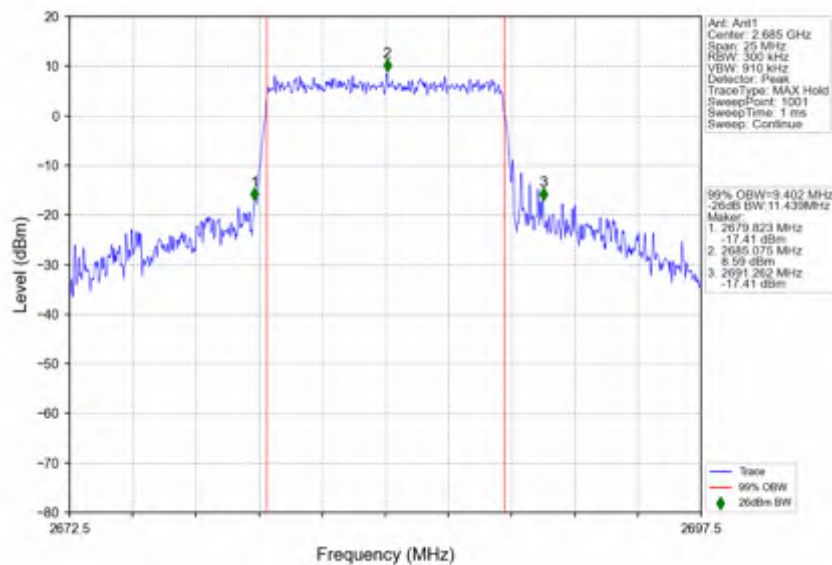
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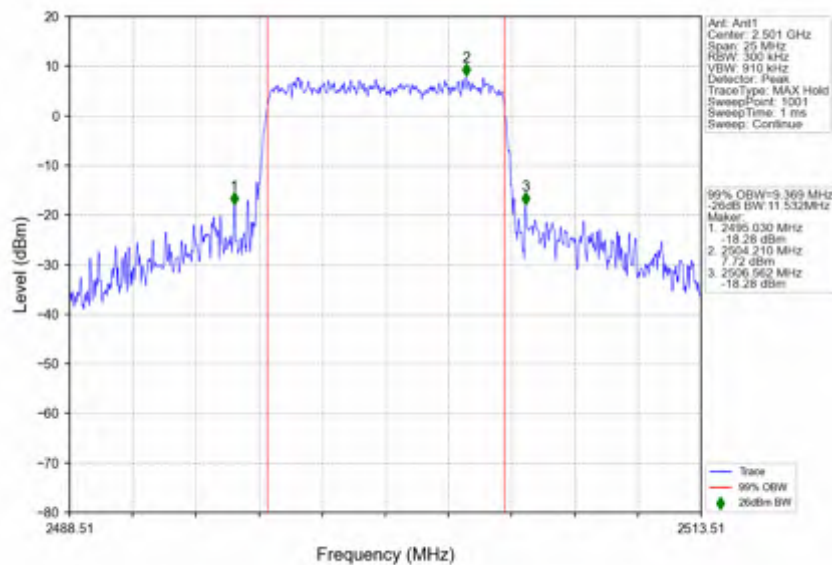
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2685MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2501.01MHz_Outer_Full



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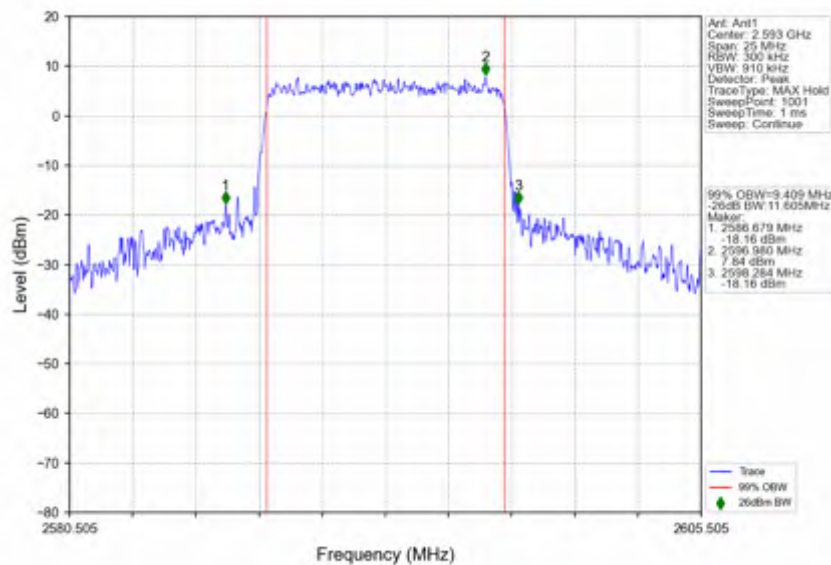
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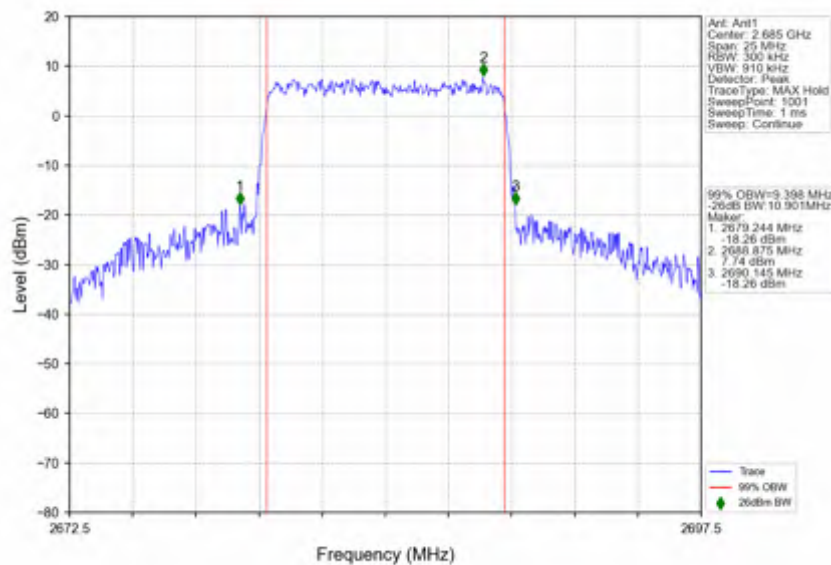
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n41 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 2685MHz Outer Full

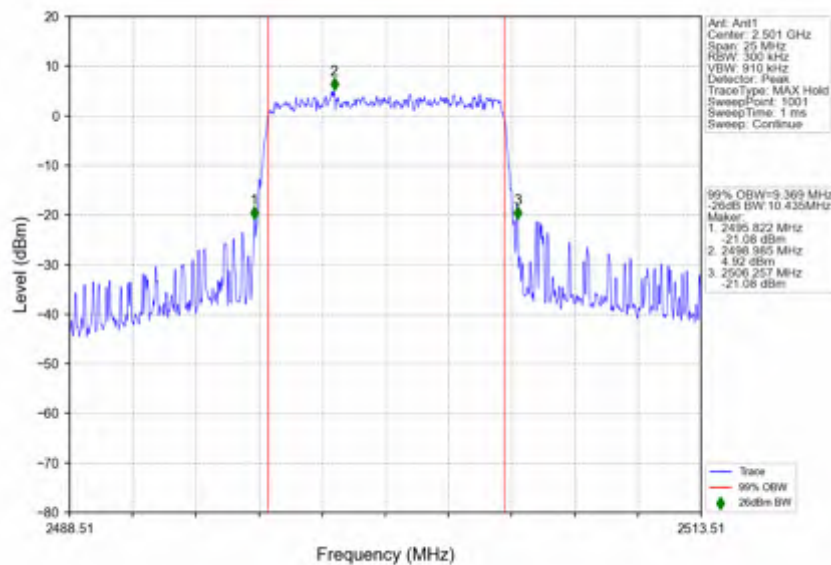


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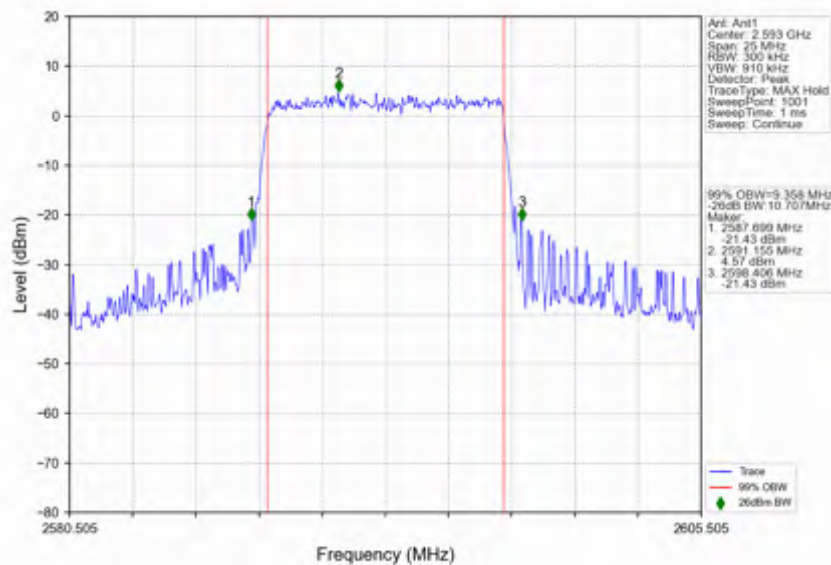
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2593.005MHz_Outer_Full
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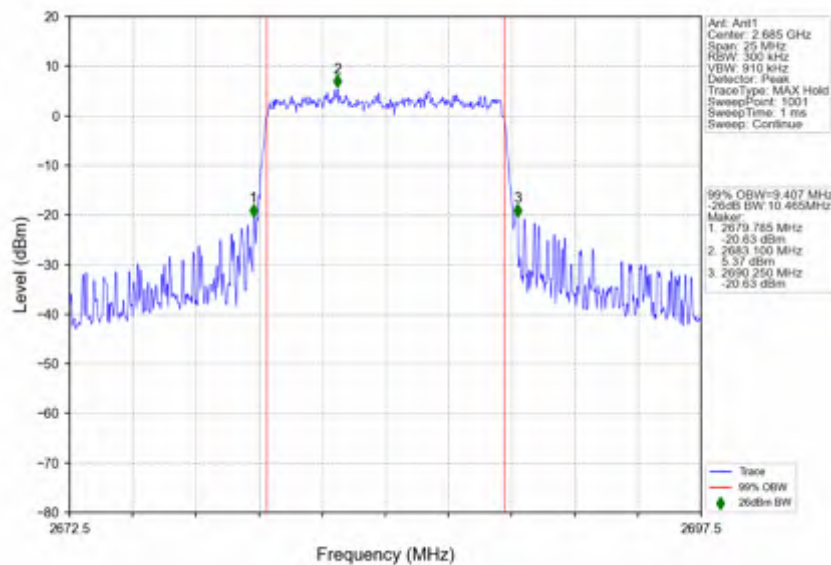


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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2685MHz_Outer_Full



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6.2 15k_SISO_15MHz_NTNV

6.2.1 Test Result

5G NR n41 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2503.5	Outer_Full	13.54	14.63	/	Pass
	2593.005	Outer_Full	13.61	14.90	/	Pass
	2682.495	Outer_Full	13.55	14.80	/	Pass
DFT-s-OFDM QPSK	2503.5	Outer_Full	13.55	14.70	/	Pass
	2593.005	Outer_Full	13.56	14.73	/	Pass
	2682.495	Outer_Full	13.60	14.87	/	Pass
DFT-s-OFDM 16 QAM	2503.5	Outer_Full	13.54	15.08	/	Pass
	2593.005	Outer_Full	13.55	15.03	/	Pass
	2682.495	Outer_Full	13.55	14.98	/	Pass
DFT-s-OFDM 64 QAM	2503.5	Outer_Full	13.59	14.62	/	Pass
	2593.005	Outer_Full	13.62	14.75	/	Pass
	2682.495	Outer_Full	13.60	14.98	/	Pass
DFT-s-OFDM 256 QAM	2503.5	Outer_Full	13.55	14.85	/	Pass
	2593.005	Outer_Full	13.61	14.85	/	Pass
	2682.495	Outer_Full	13.56	15.10	/	Pass
CP-OFDM QPSK	2503.5	Outer_Full	14.28	15.29	/	Pass
	2593.005	Outer_Full	14.30	16.79	/	Pass
	2682.495	Outer_Full	14.32	16.62	/	Pass
CP-OFDM 16 QAM	2503.5	Outer_Full	14.27	15.78	/	Pass
	2593.005	Outer_Full	14.28	16.45	/	Pass
	2682.495	Outer_Full	14.25	15.33	/	Pass
CP-OFDM 64 QAM	2503.5	Outer_Full	14.29	15.30	/	Pass
	2593.005	Outer_Full	14.26	16.79	/	Pass
	2682.495	Outer_Full	14.25	15.57	/	Pass
CP-OFDM 256 QAM	2503.5	Outer_Full	14.22	15.30	/	Pass
	2593.005	Outer_Full	14.29	15.69	/	Pass
	2682.495	Outer_Full	14.27	15.91	/	Pass



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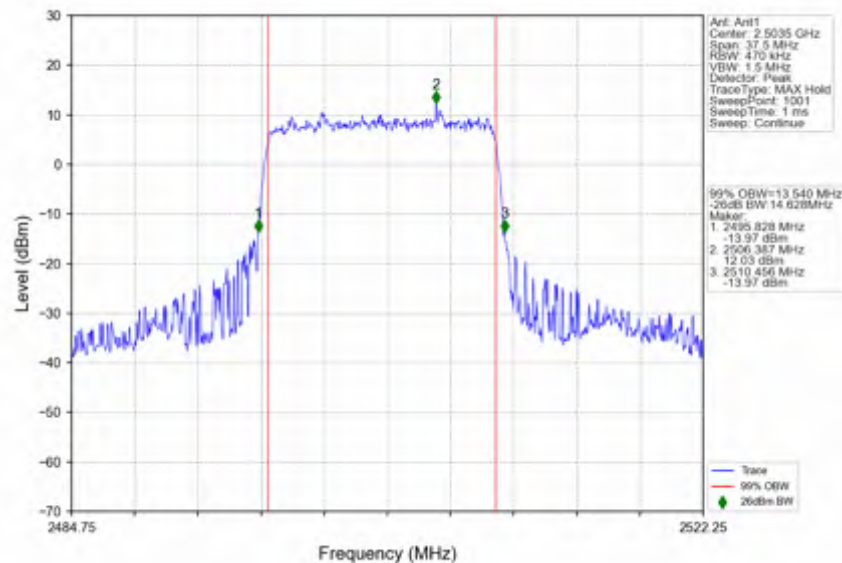
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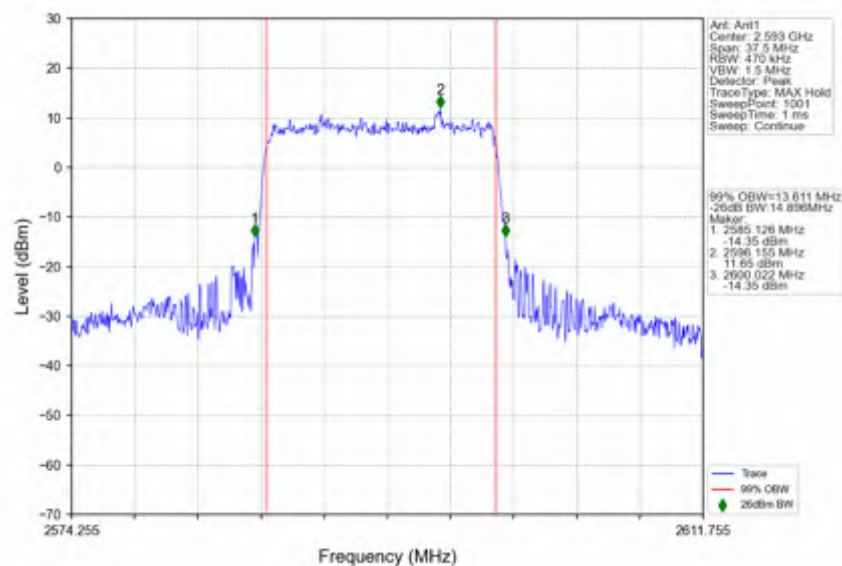
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6.2.2 Test Graph

n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Outer_Full



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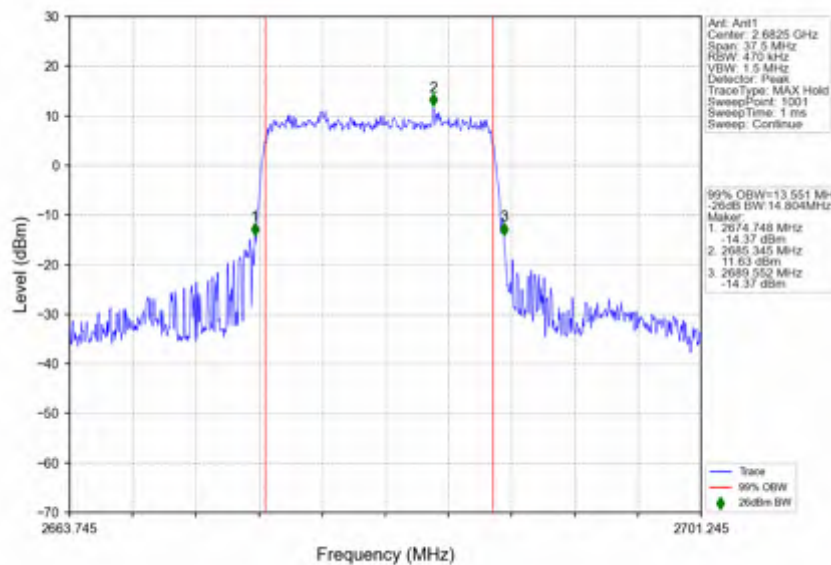
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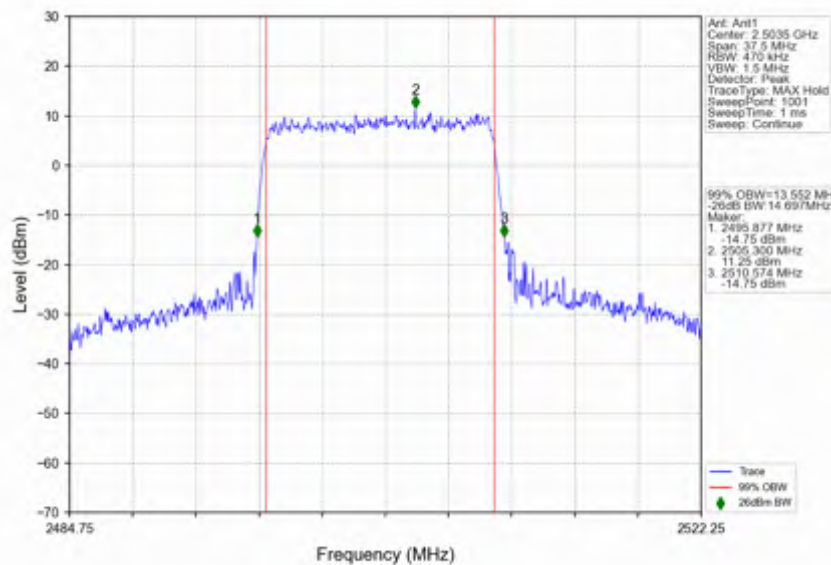
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2503.5MHz_Outer_Full



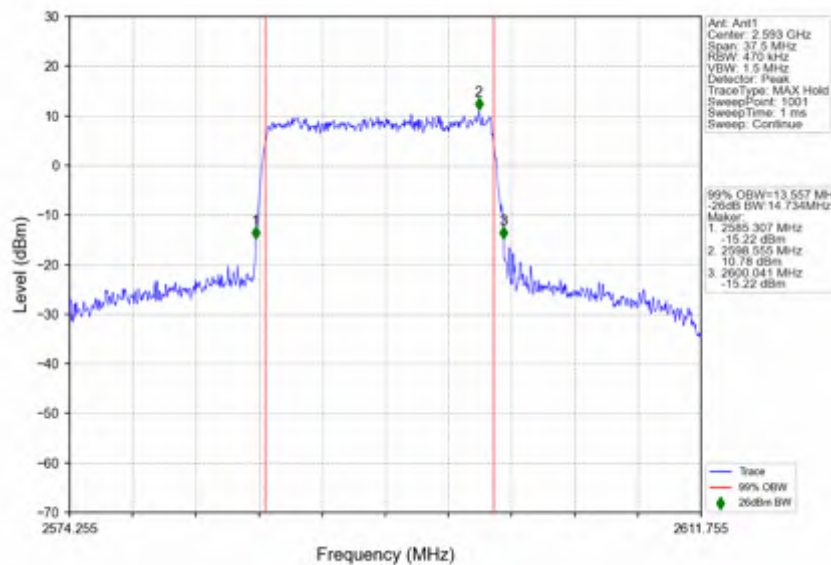
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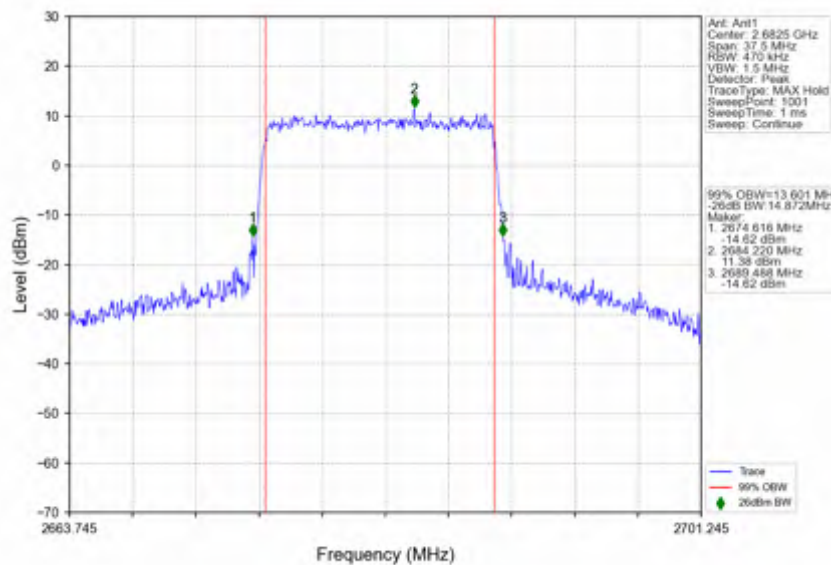
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n41 15kHz SISO NTVN 15MHz DFT-s-OFDM QPSK 2593.005MHz Outer Full



n41	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	QPSK	2682.495MHz	Outer	Full
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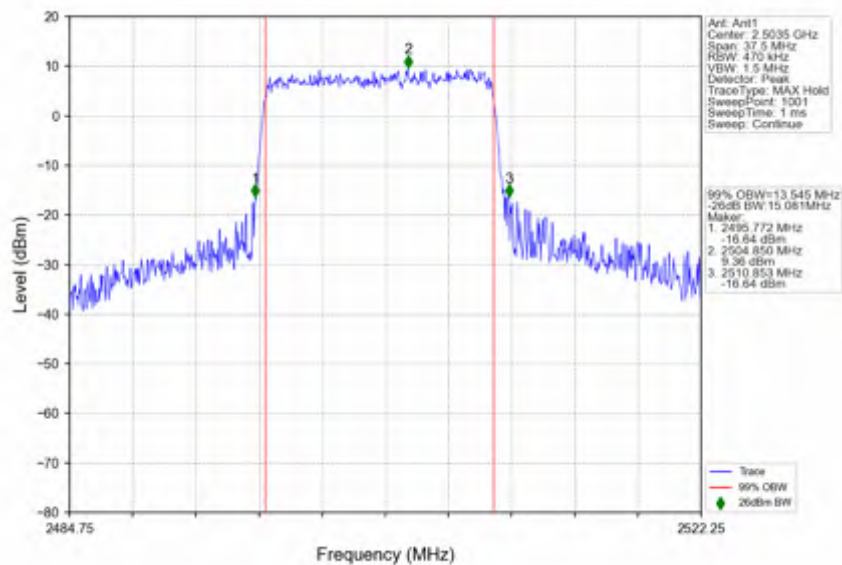


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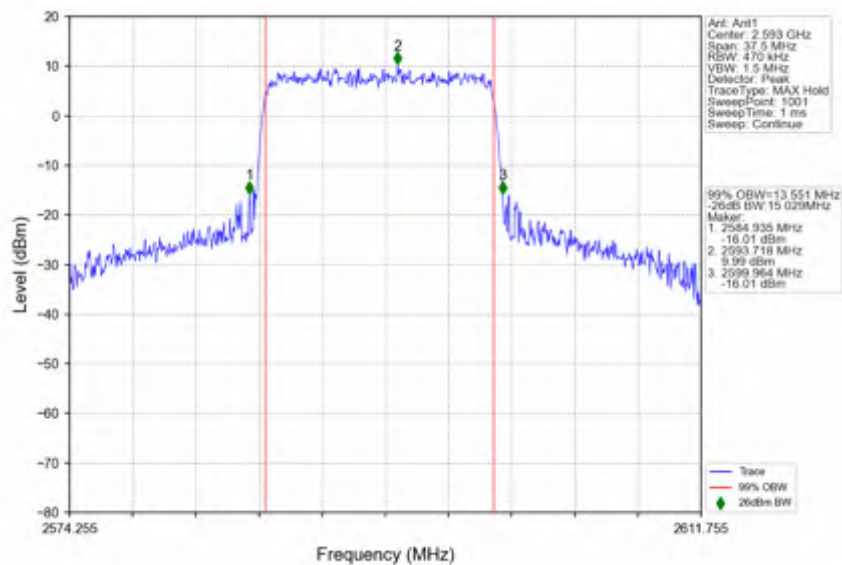
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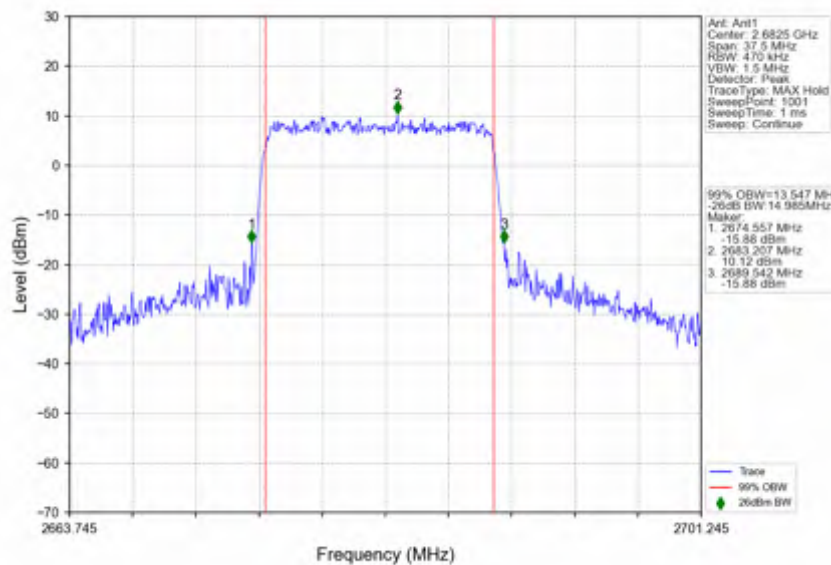
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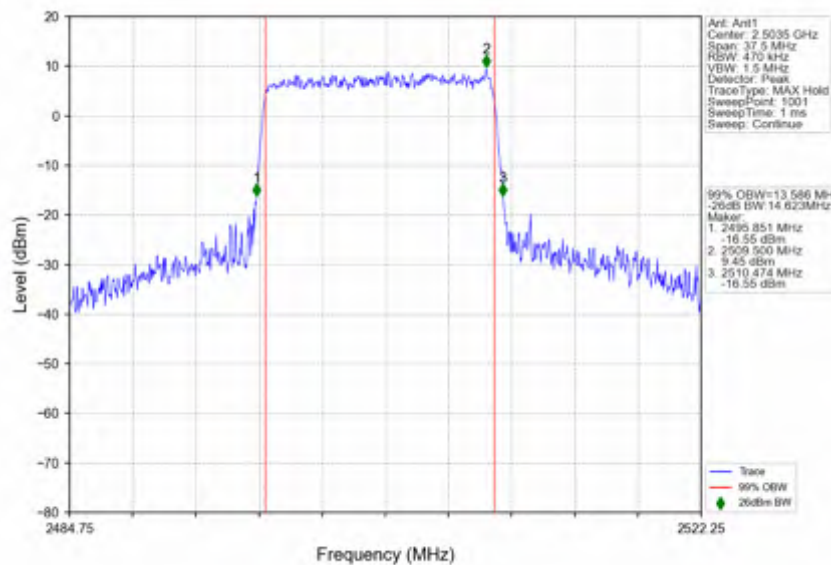
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2682.495MHz_Outer_Full



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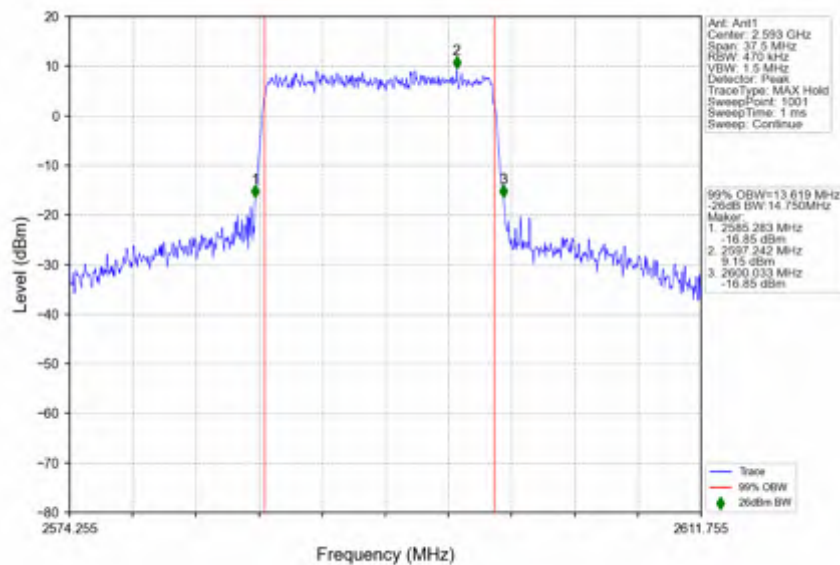
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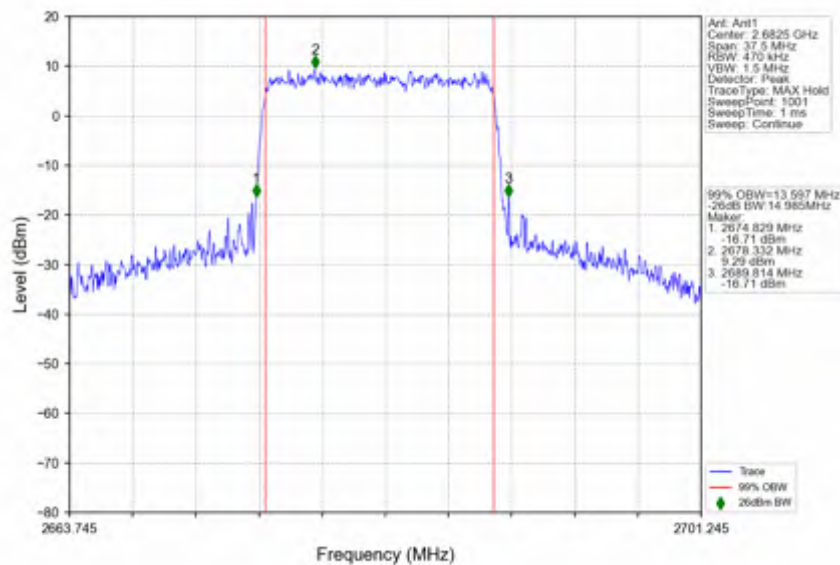
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n41	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	64 QAM	2593.005MHz	Outer	Full
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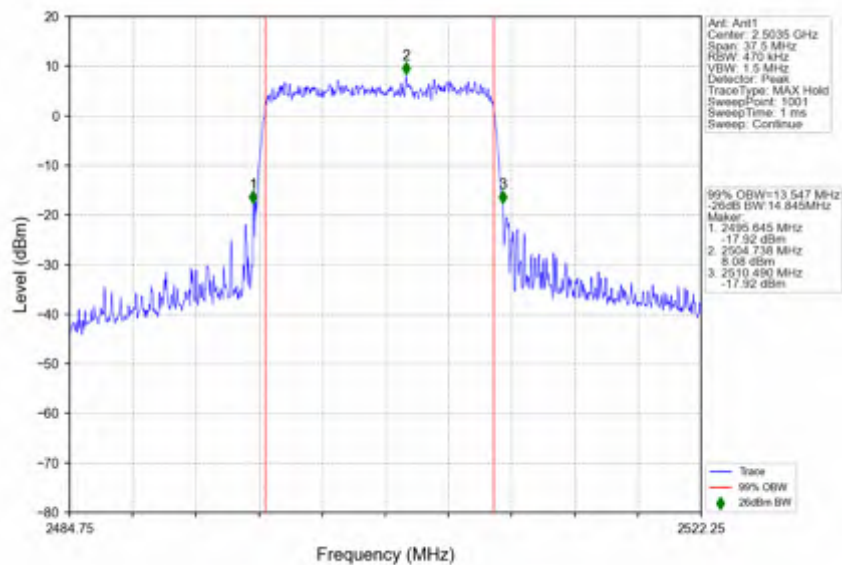


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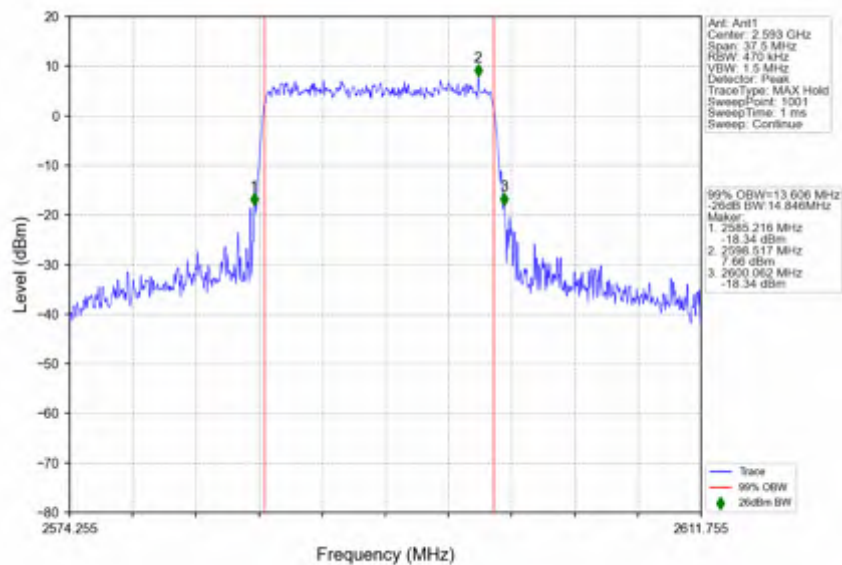
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n41	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	256	QAM	2503.5MHz	Outer	Full
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2593.005MHz_Outer_Full

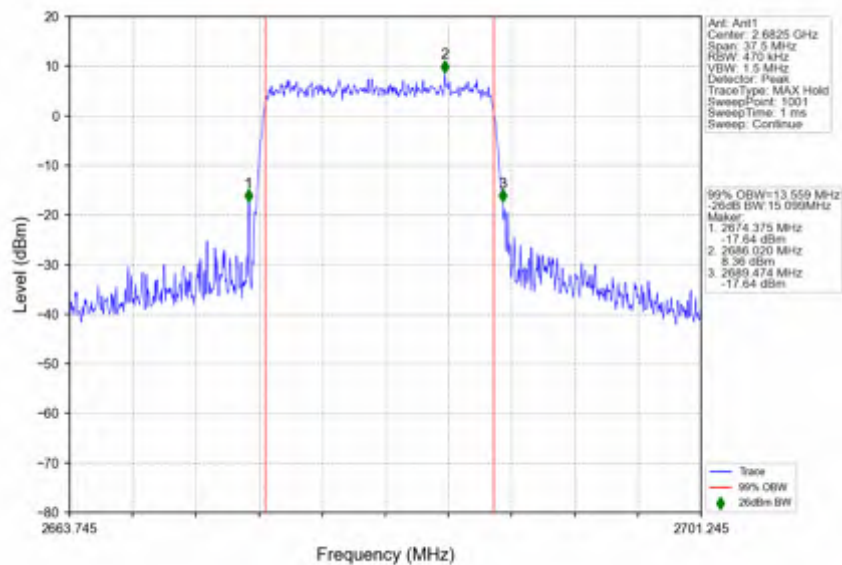


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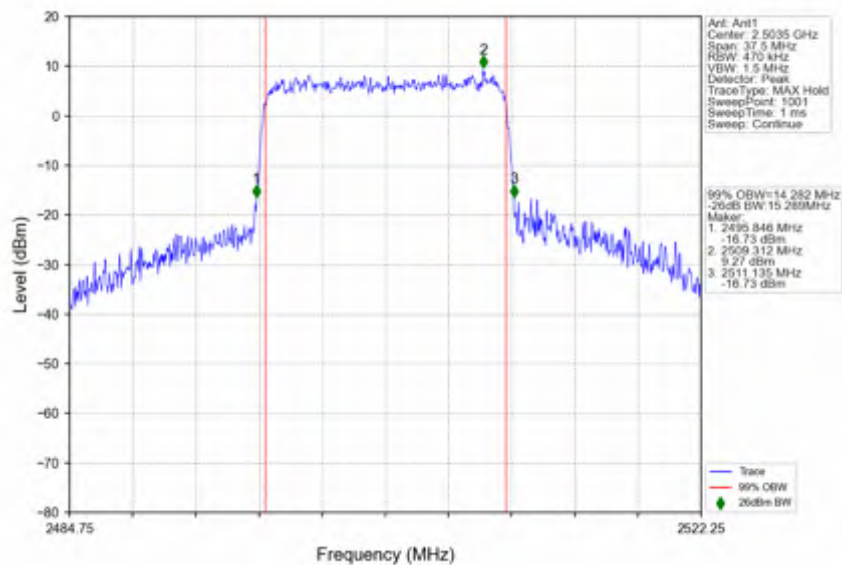
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n41	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	256 QAM	2682.495MHz	Outer	Full
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2503.5MHz_Outer_Full

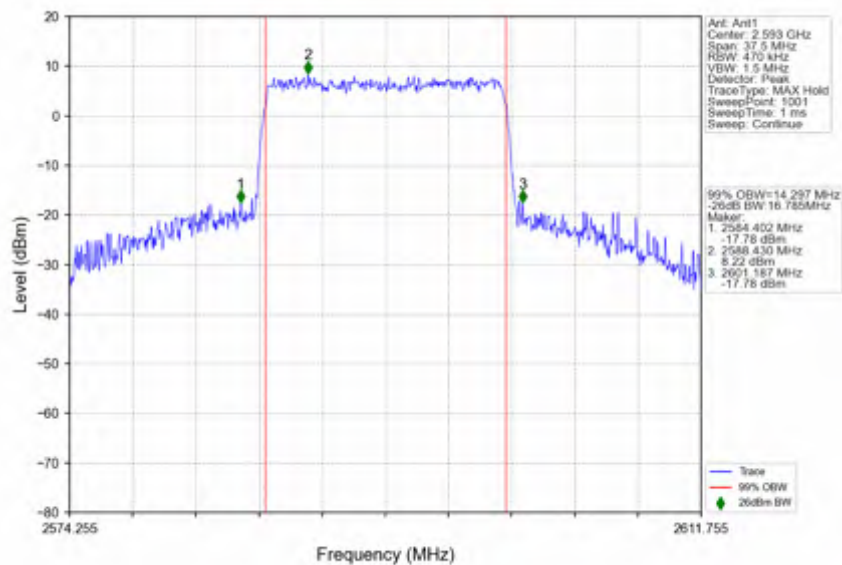


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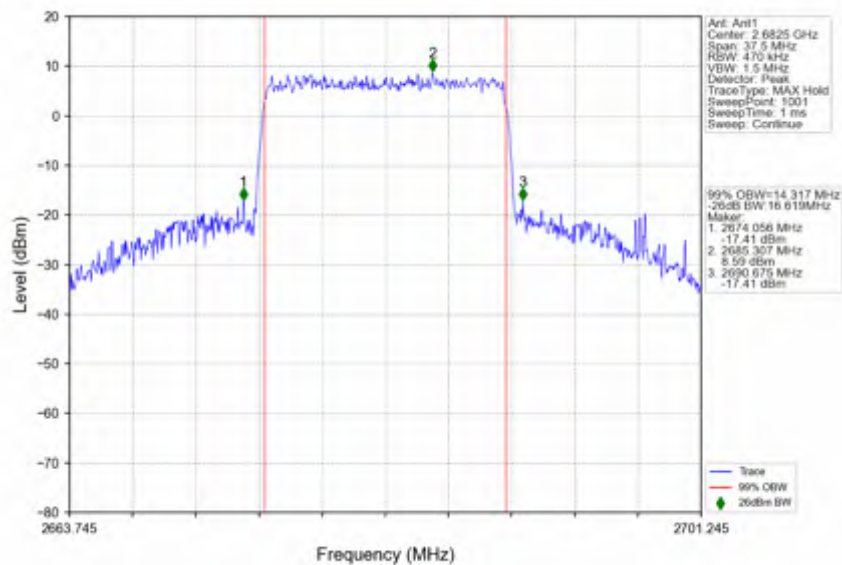
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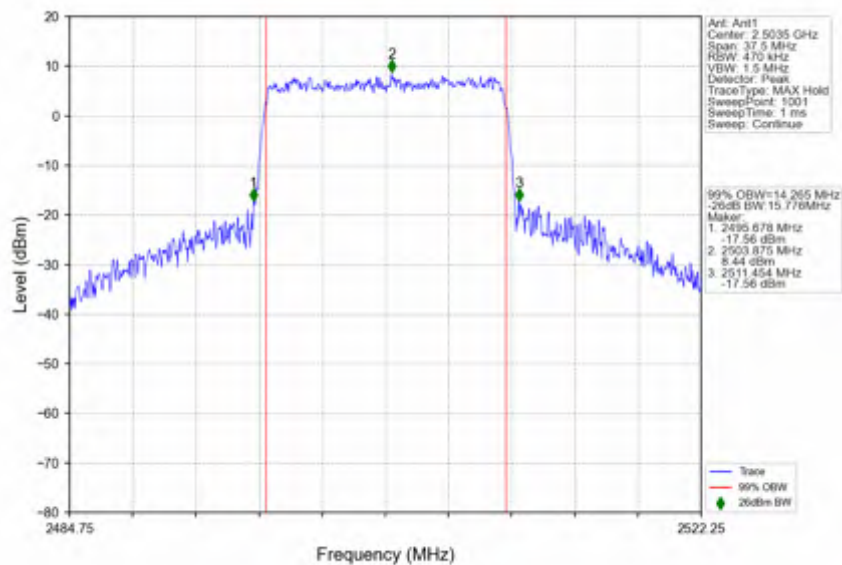


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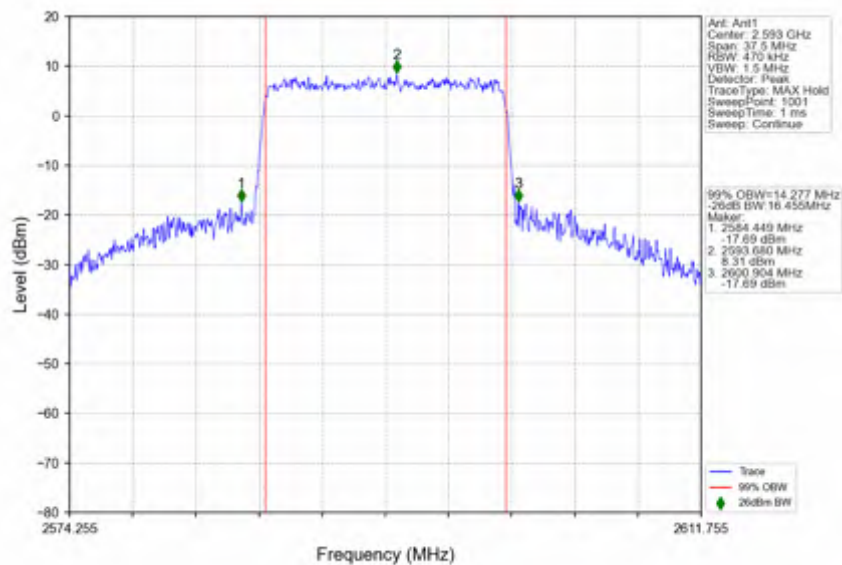
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2593.005MHz_Outer_Full

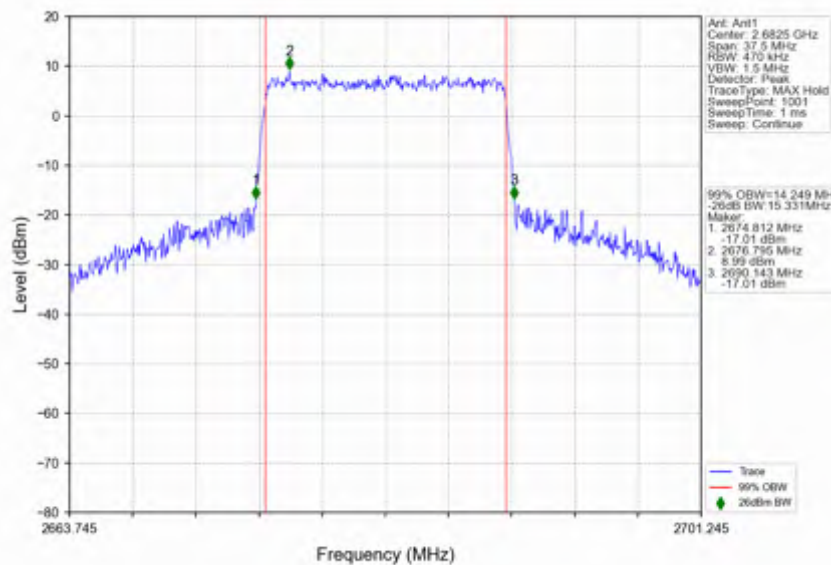


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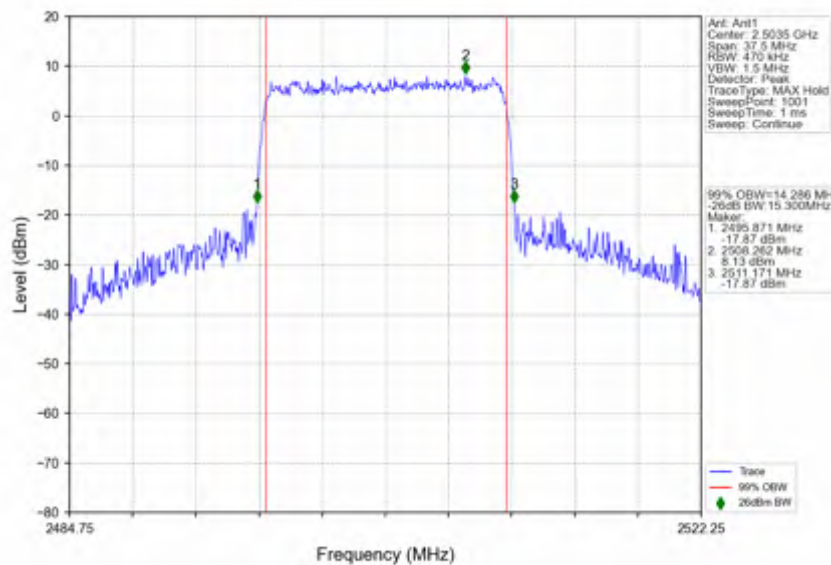
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2682.495MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2503.5MHz_Outer_Full



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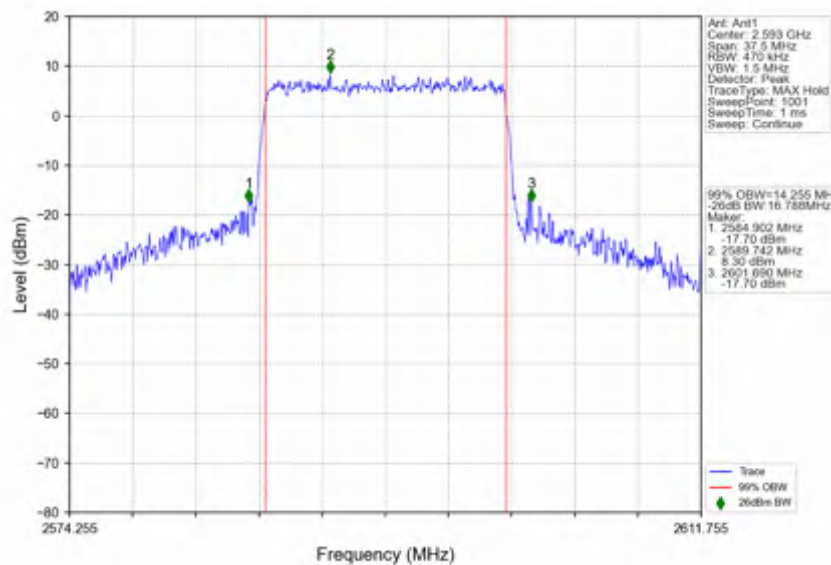
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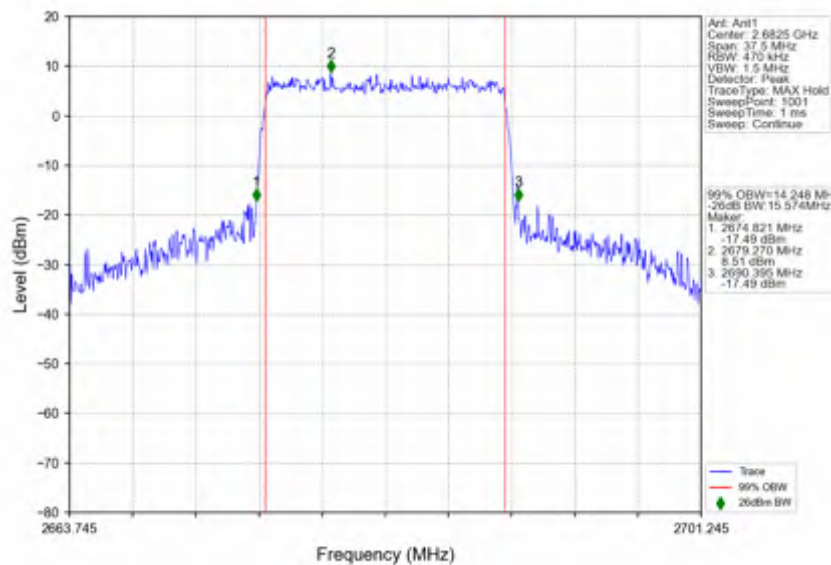
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2682.495MHz_Outer_Full



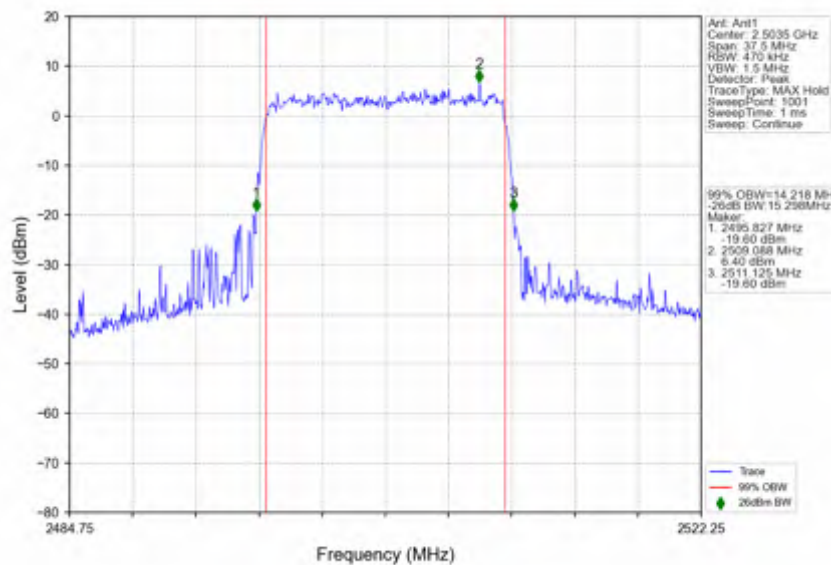
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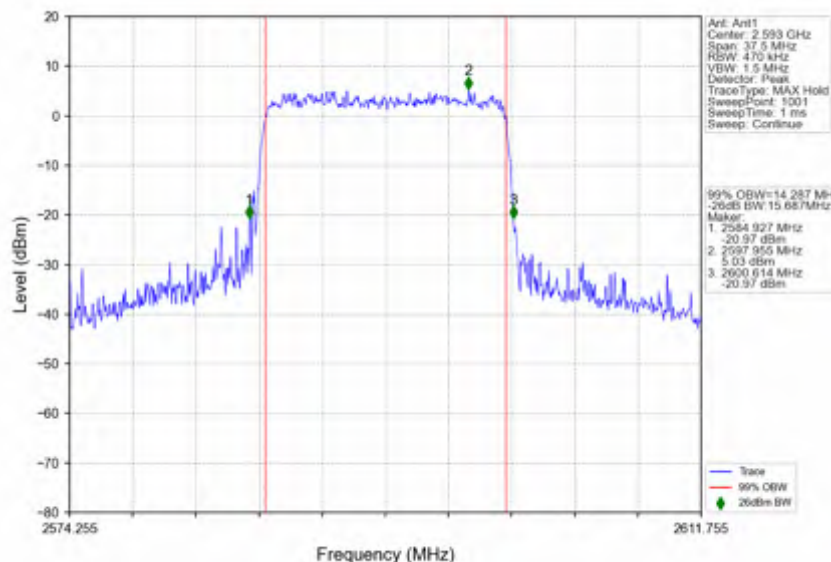
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2593.005MHz_Outer_Full



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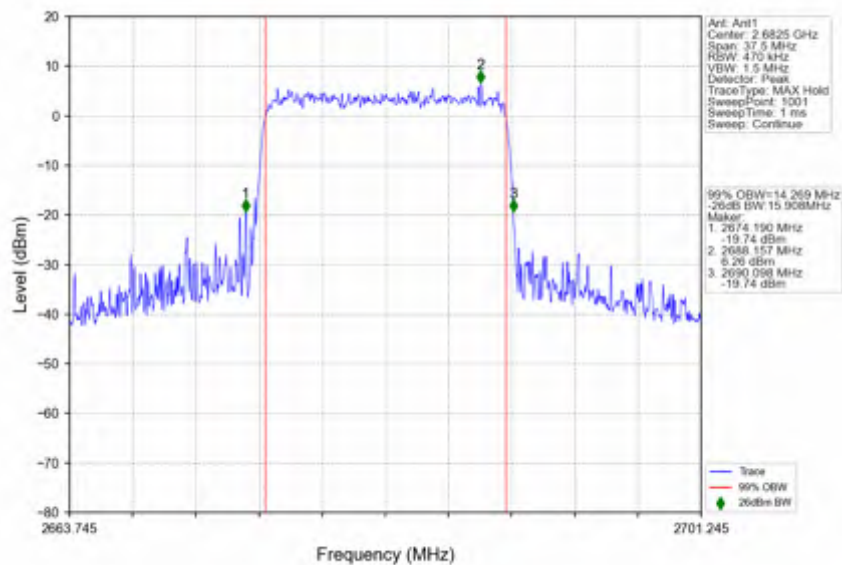
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2682.495MHz_Outer_Full



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6.3 15k_SISO_20MHz_NTNV

6.3.1 Test Result

5G NR n41 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2506.005	Outer_Full	18.07	19.46	/	Pass
	2593.005	Outer_Full	18.07	19.60	/	Pass
	2679.99	Outer_Full	18.10	19.72	/	Pass
DFT-s-OFDM QPSK	2506.005	Outer_Full	18.06	19.60	/	Pass
	2593.005	Outer_Full	18.07	19.64	/	Pass
	2679.99	Outer_Full	18.11	20.53	/	Pass
DFT-s-OFDM 16 QAM	2506.005	Outer_Full	18.09	19.66	/	Pass
	2593.005	Outer_Full	18.07	19.72	/	Pass
	2679.99	Outer_Full	18.05	19.95	/	Pass
DFT-s-OFDM 64 QAM	2506.005	Outer_Full	18.00	20.72	/	Pass
	2593.005	Outer_Full	18.08	20.59	/	Pass
	2679.99	Outer_Full	18.08	19.93	/	Pass
DFT-s-OFDM 256 QAM	2506.005	Outer_Full	18.06	19.75	/	Pass
	2593.005	Outer_Full	18.12	19.66	/	Pass
	2679.99	Outer_Full	18.09	19.72	/	Pass
CP-OFDM QPSK	2506.005	Outer_Full	19.12	20.87	/	Pass
	2593.005	Outer_Full	19.20	25.51	/	Pass
	2679.99	Outer_Full	19.11	20.91	/	Pass
CP-OFDM 16 QAM	2506.005	Outer_Full	19.08	20.73	/	Pass
	2593.005	Outer_Full	19.15	24.89	/	Pass
	2679.99	Outer_Full	19.13	20.92	/	Pass
CP-OFDM 64 QAM	2506.005	Outer_Full	19.03	20.60	/	Pass
	2593.005	Outer_Full	19.12	20.89	/	Pass
	2679.99	Outer_Full	19.10	20.92	/	Pass
CP-OFDM 256 QAM	2506.005	Outer_Full	19.04	20.67	/	Pass
	2593.005	Outer_Full	19.07	20.43	/	Pass
	2679.99	Outer_Full	19.12	21.45	/	Pass



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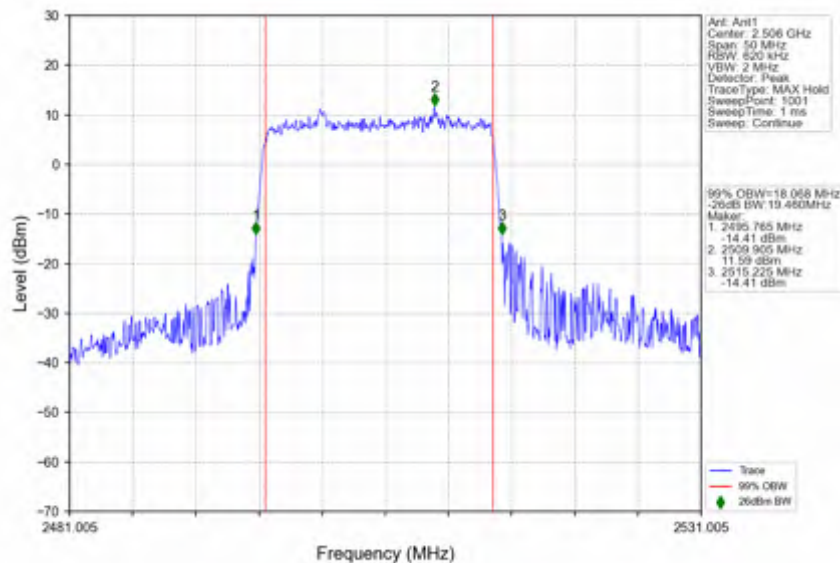
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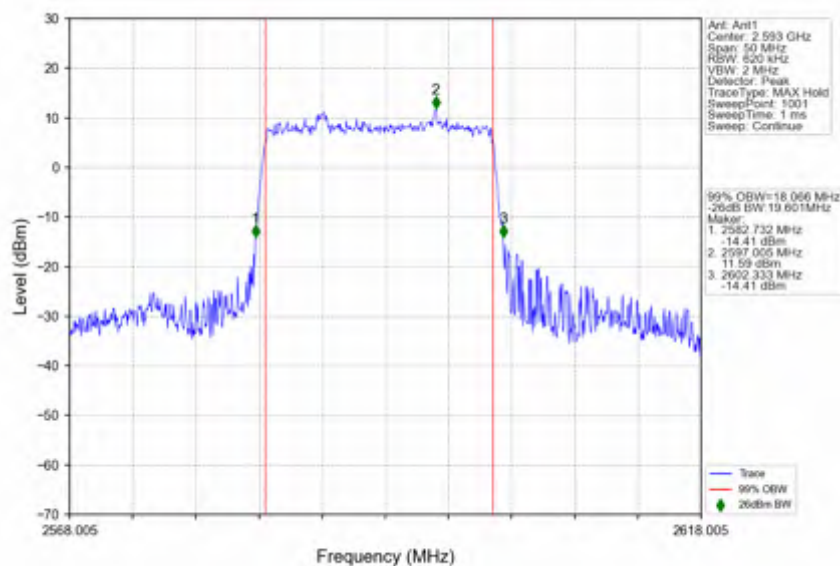
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6.3.2 Test Graph

n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2506.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Outer_Full



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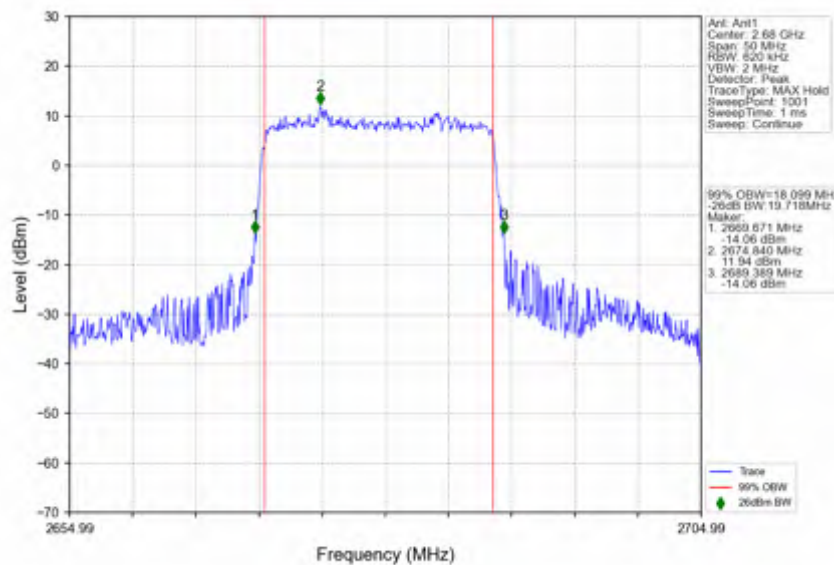
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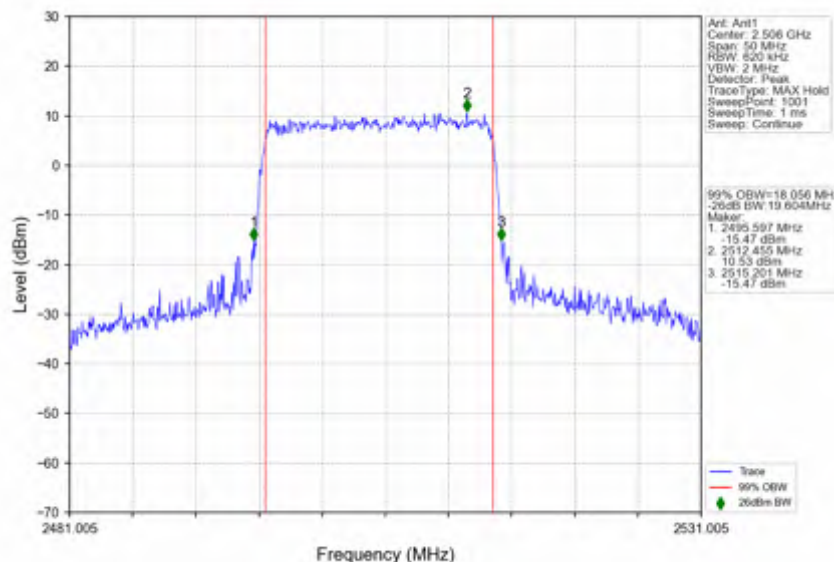
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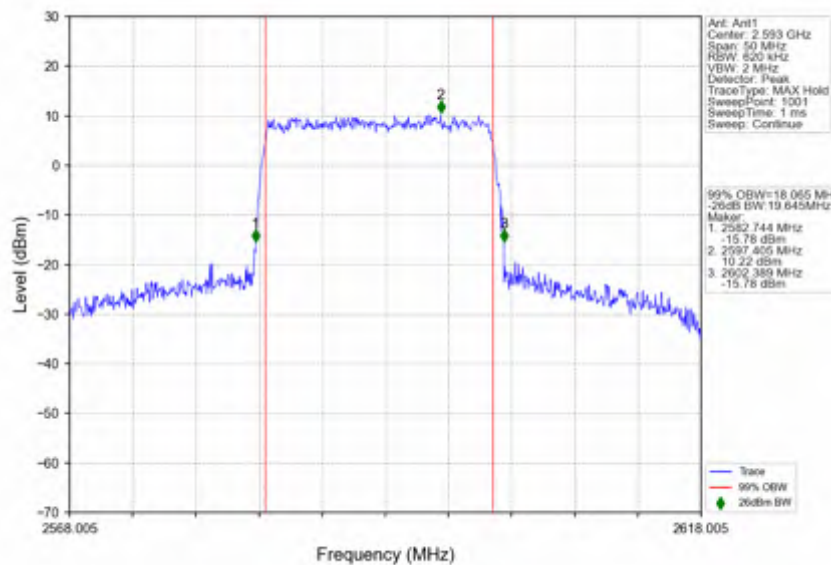
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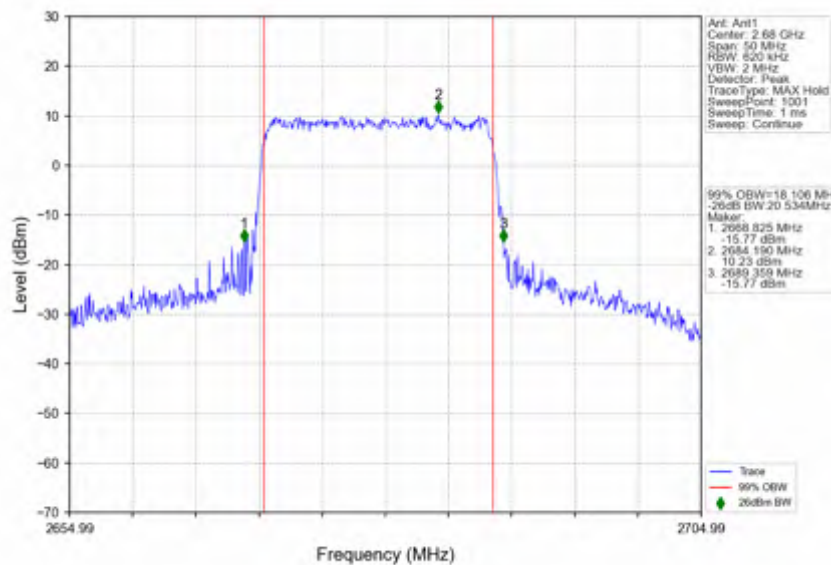
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2679.99MHz_Outer_Full

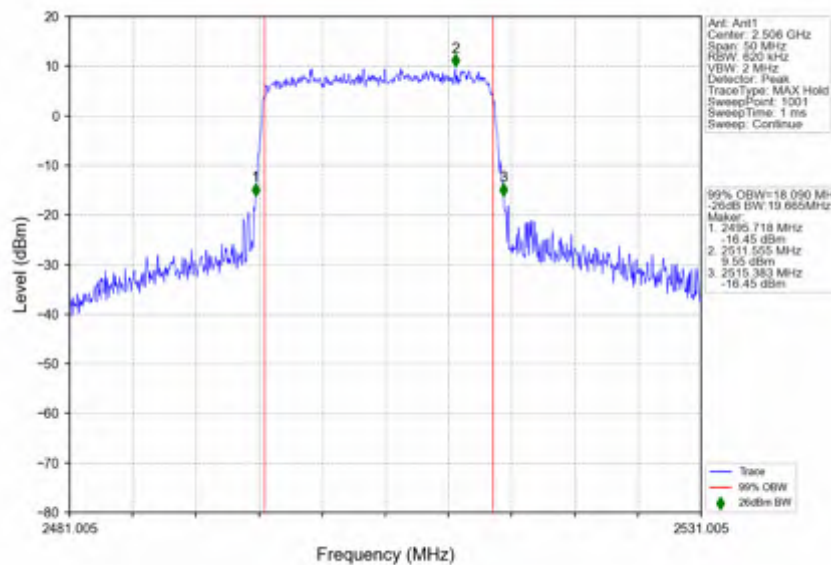


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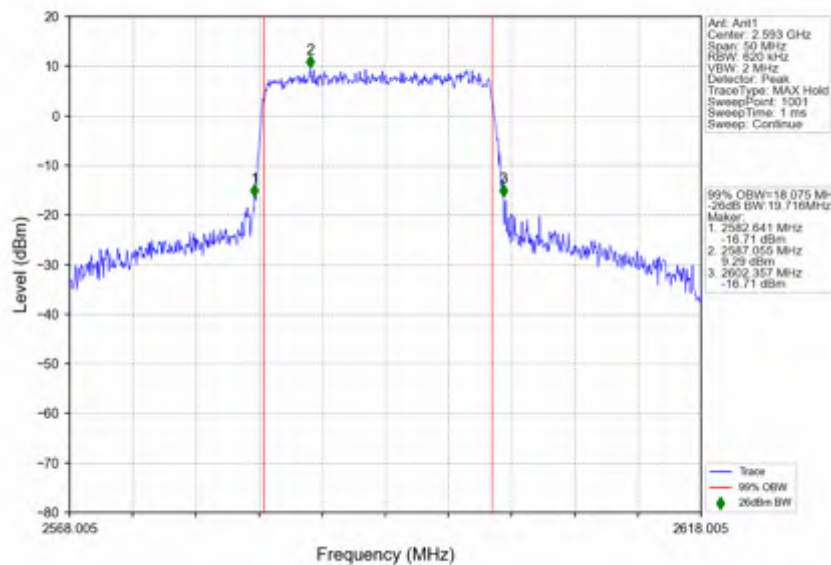
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2506.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2593.005MHz_Outer_Full



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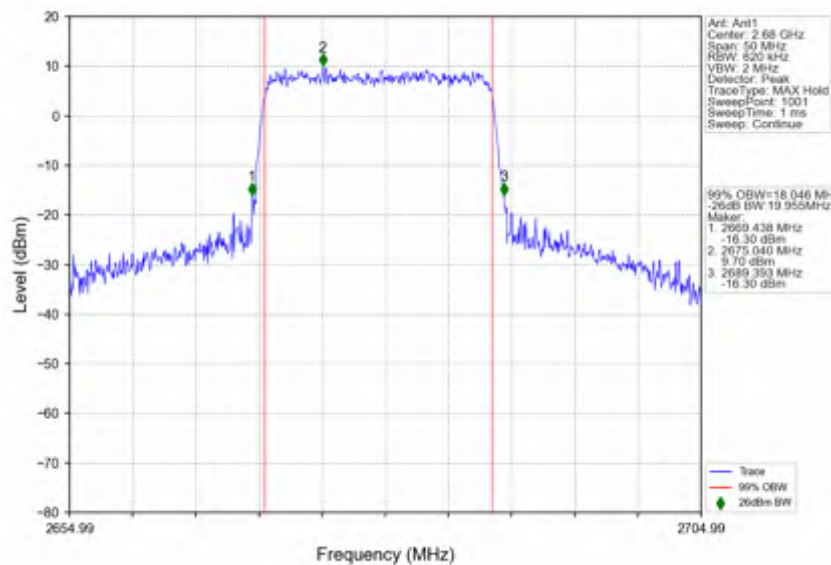
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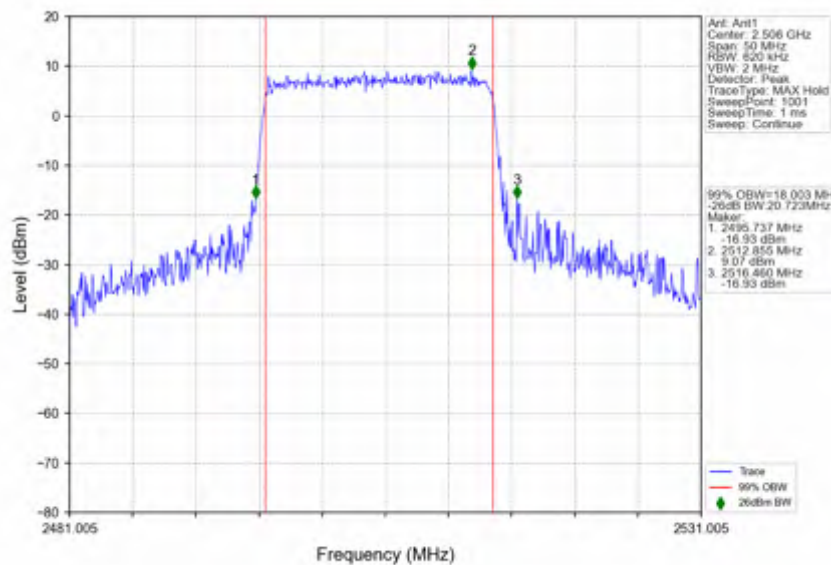
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2679.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2506.005MHz_Outer_Full



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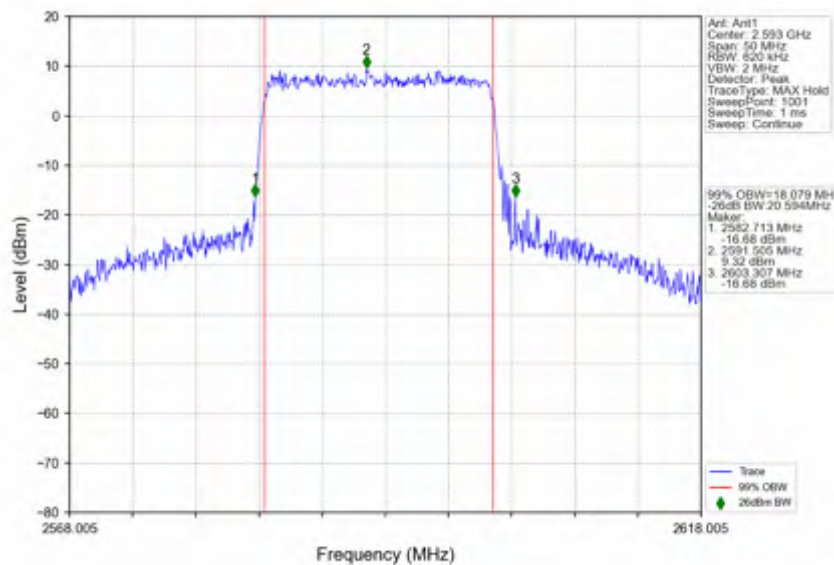
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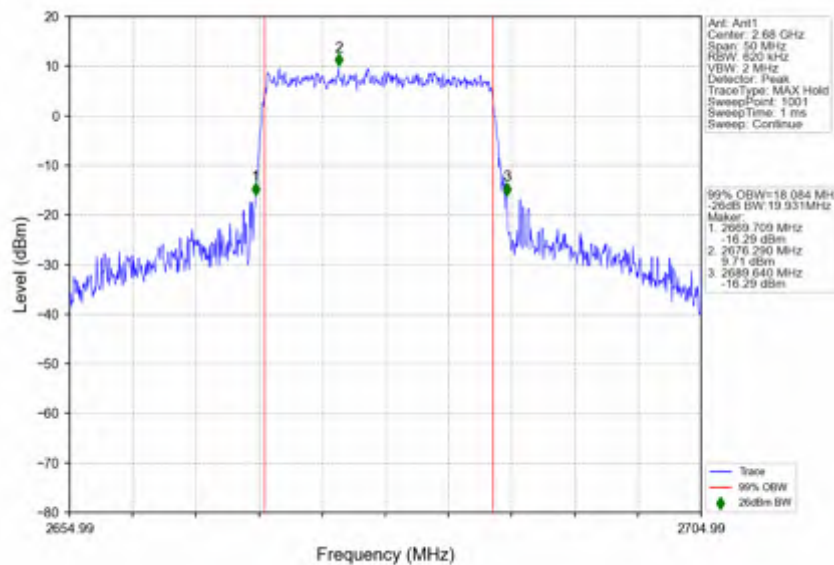
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2679.99MHz_Outer_Full



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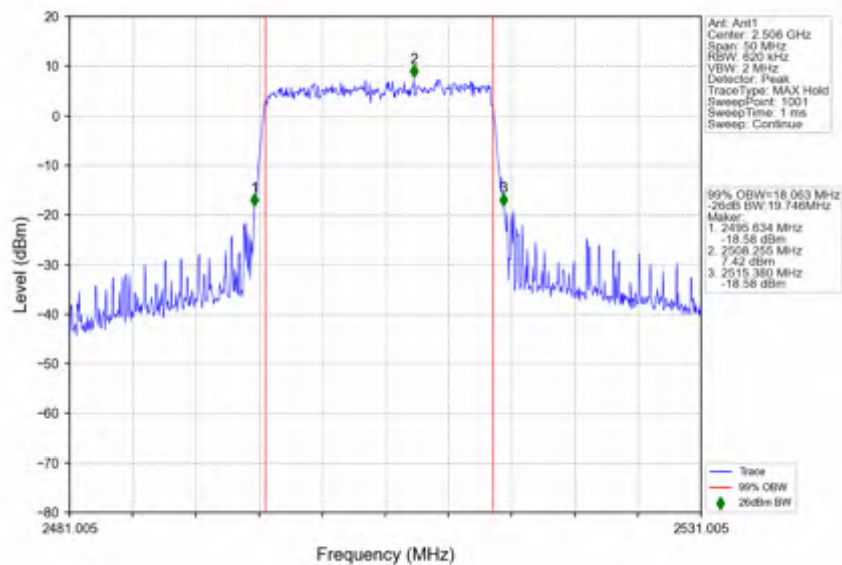
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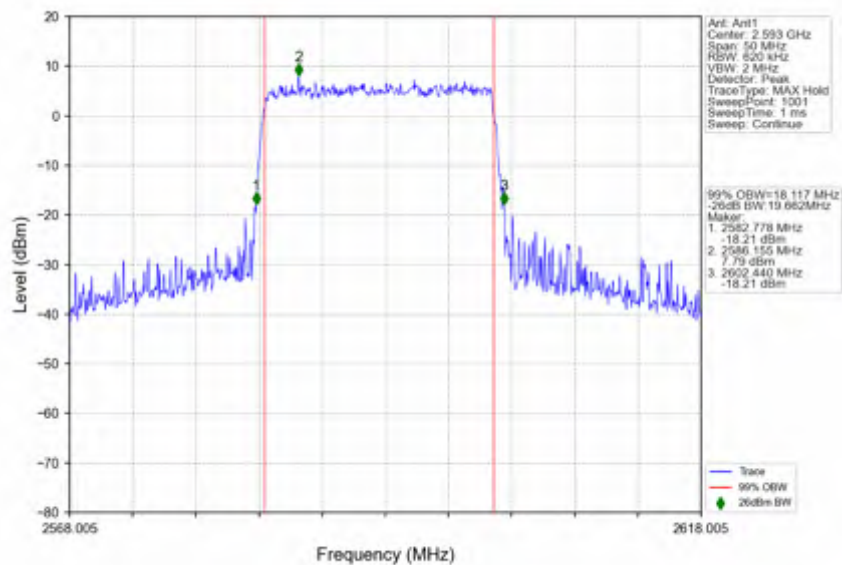
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2506.005MHz_Outer_Full



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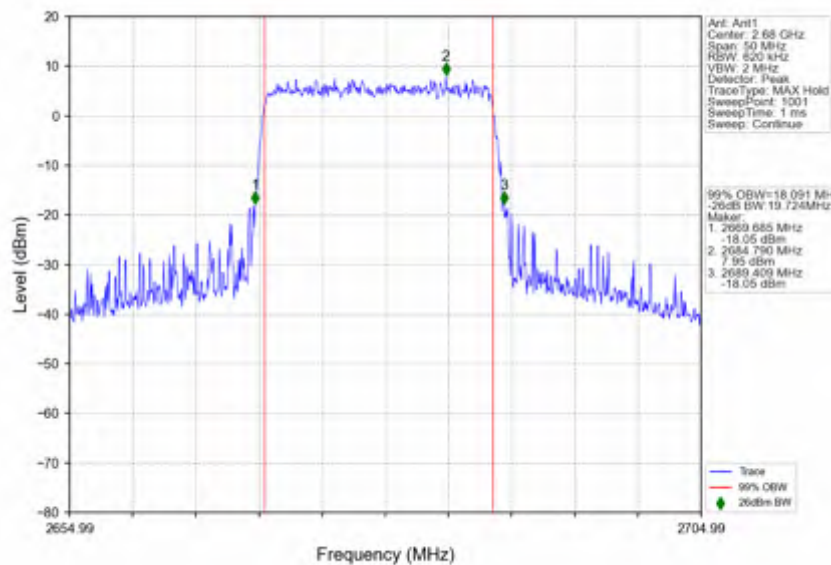


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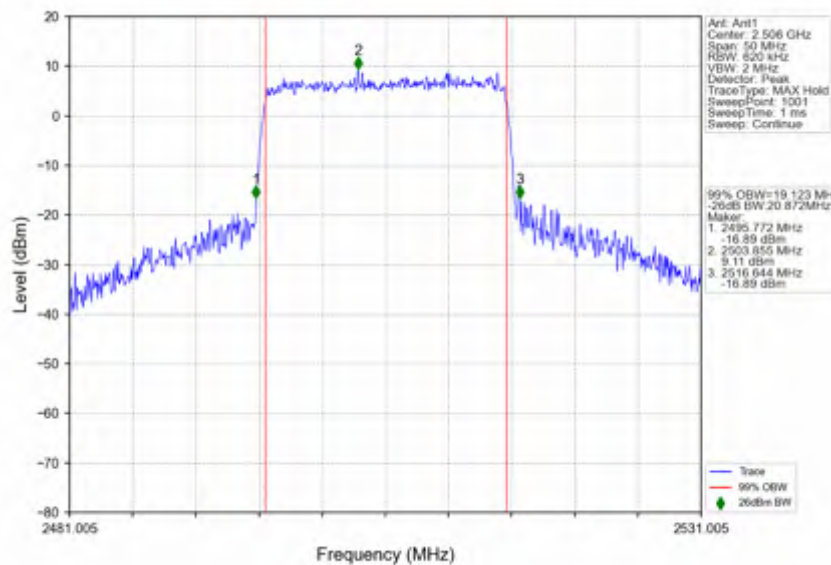
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2679.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2506.005MHz_Outer_Full



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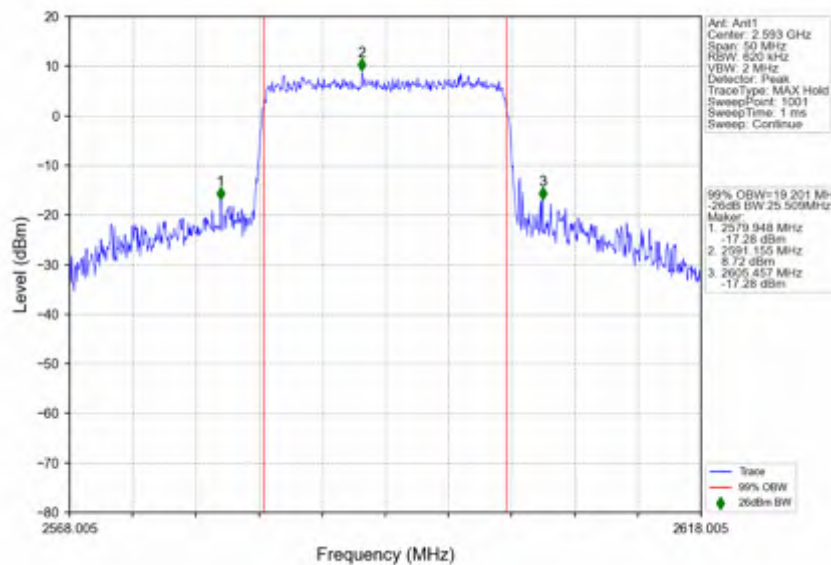
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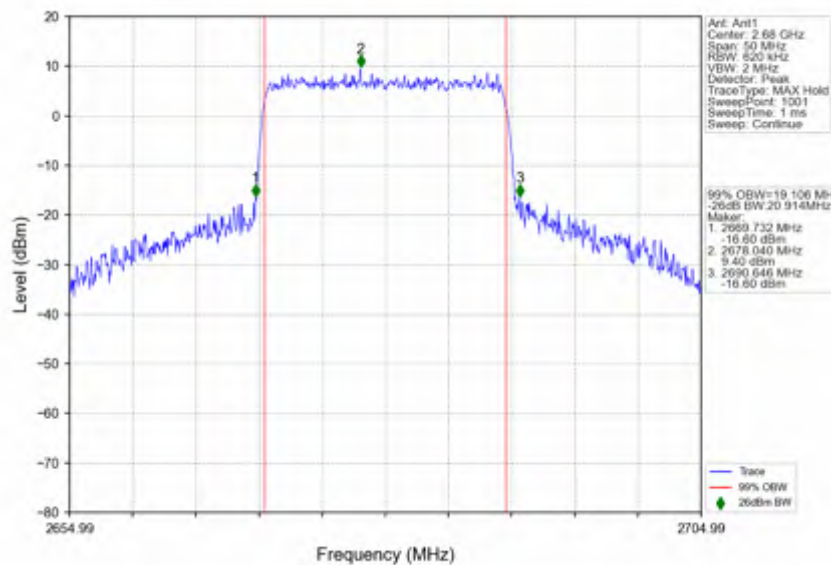
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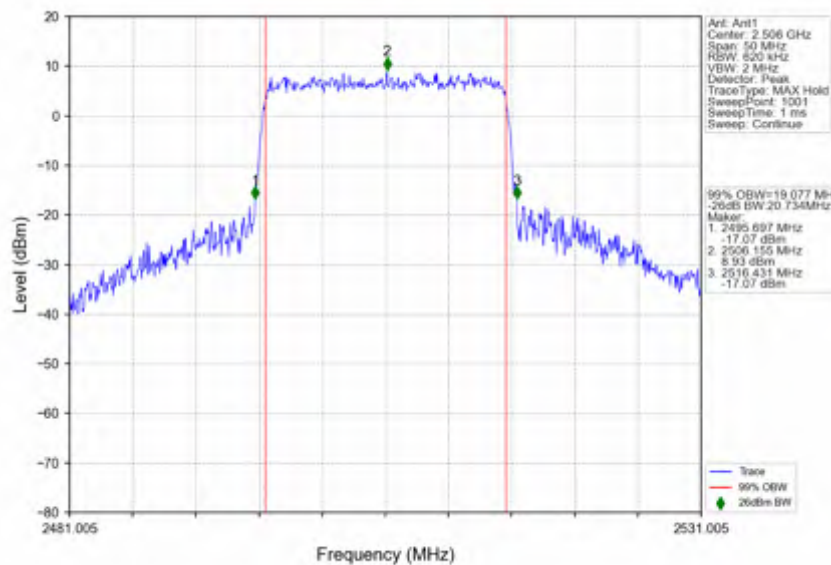


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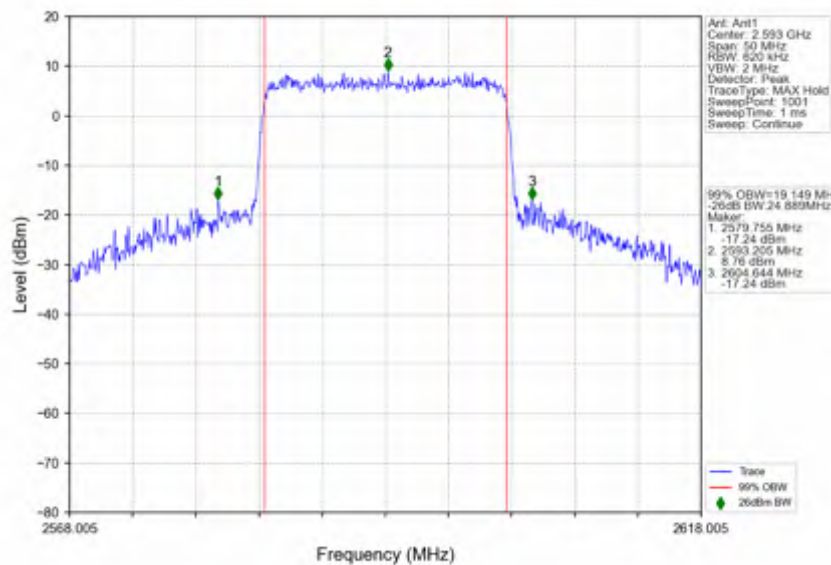
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n41_15kHz_SISO_NTNV_20MHz_CP-OFDM_16 QAM_2506.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_CP-OFDM_16 QAM_2593.005MHz_Outer_Full



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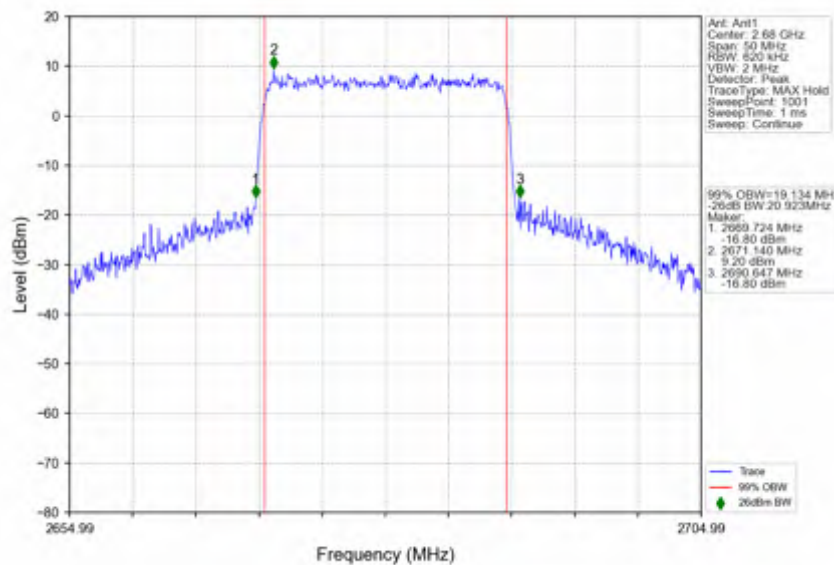
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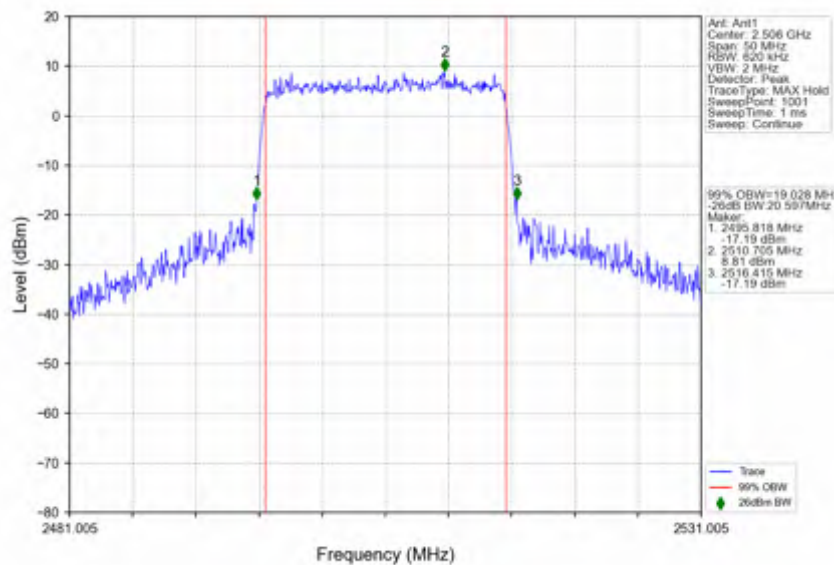
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n41_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2679.99MHz_Outer_Full



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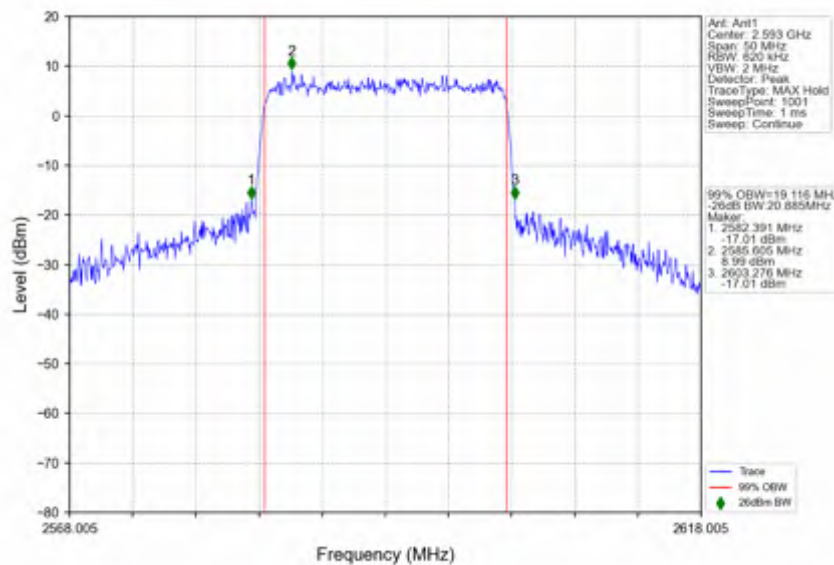
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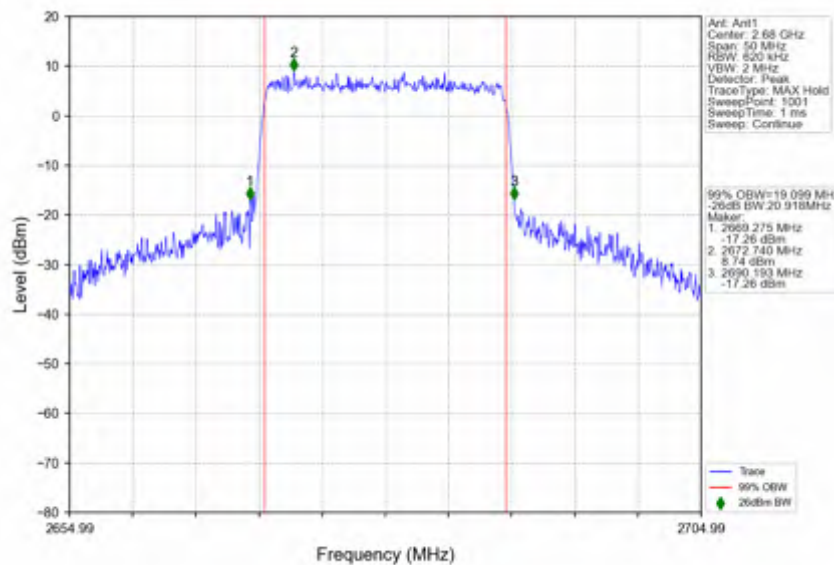
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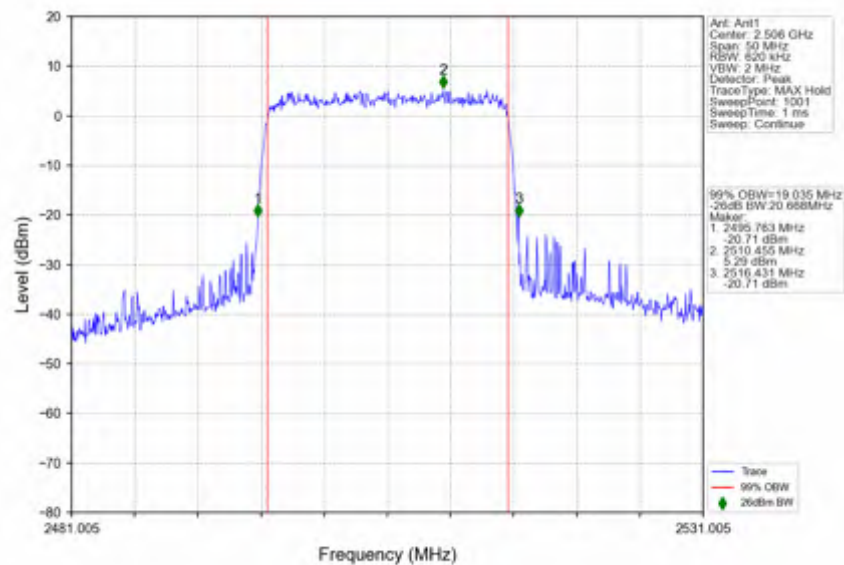


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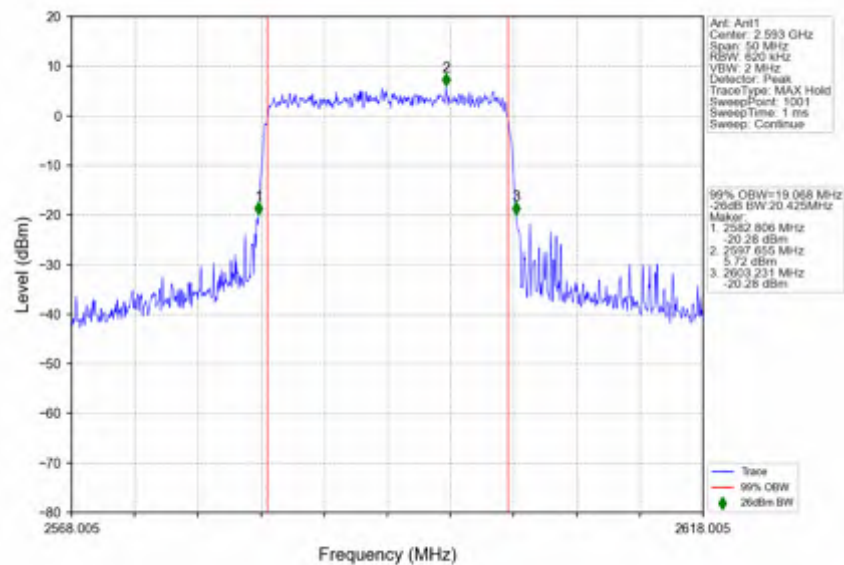
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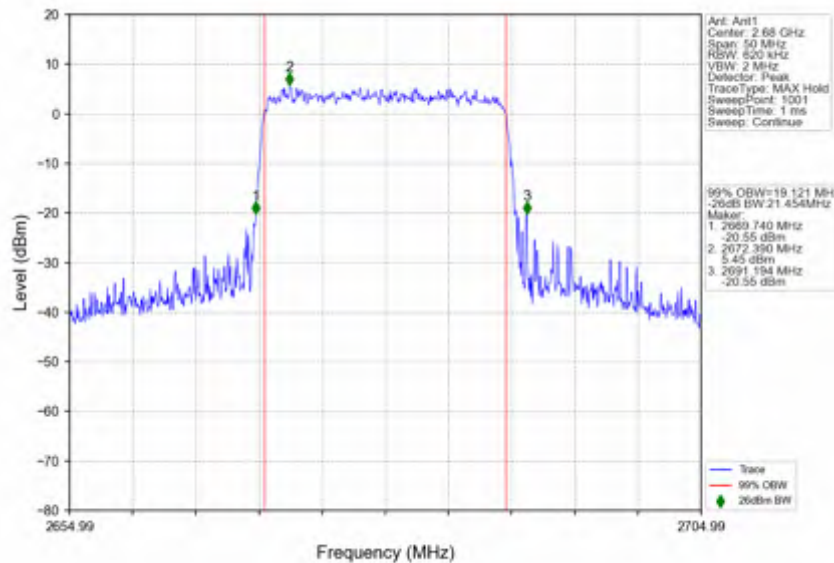
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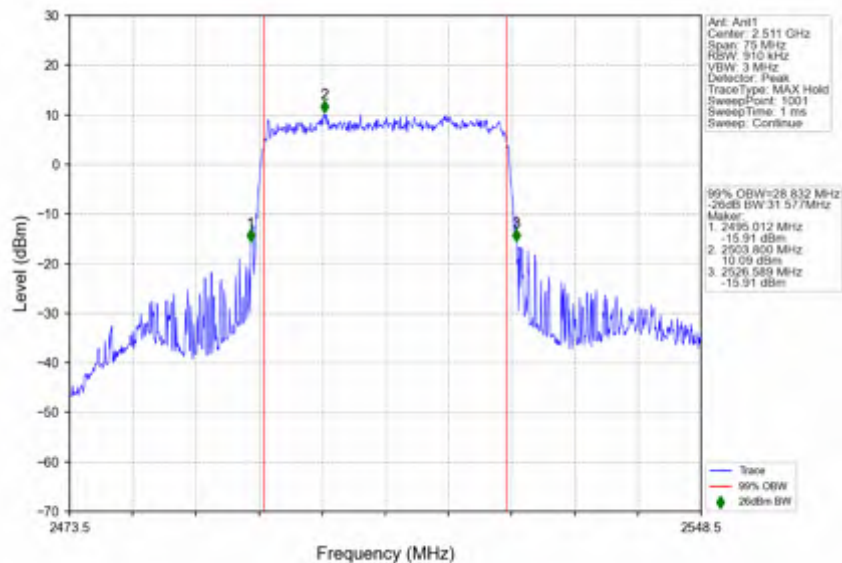
6.4 15k_SISO_30MHz_NTNV

6.4.1 Test Result

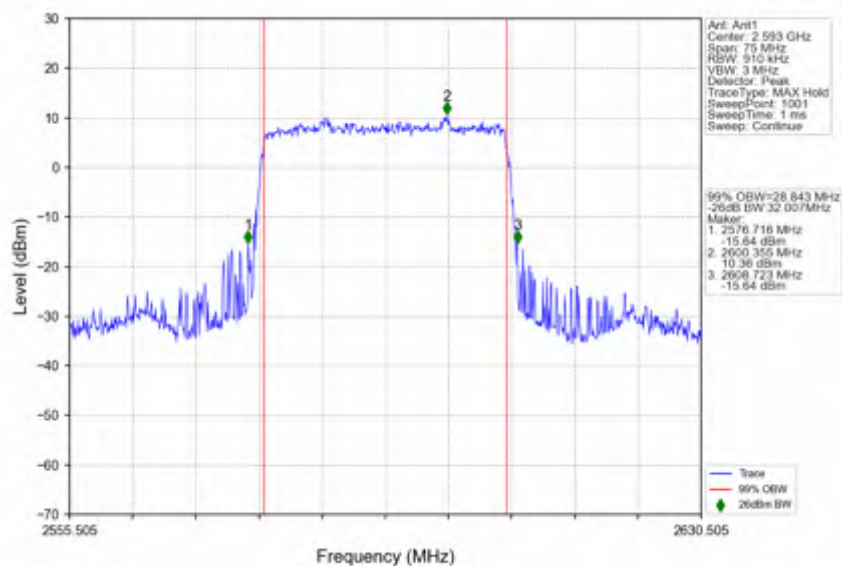
5G NR n41 SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2511	Outer_Full	28.83	31.58	/	Pass
	2593.005	Outer_Full	28.84	32.01	/	Pass
	2674.995	Outer_Full	28.89	31.62	/	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	28.74	30.80	/	Pass
	2593.005	Outer_Full	28.77	31.39	/	Pass
	2674.995	Outer_Full	28.88	30.85	/	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	28.75	31.18	/	Pass
	2593.005	Outer_Full	28.86	31.63	/	Pass
	2674.995	Outer_Full	28.85	31.09	/	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	28.76	30.93	/	Pass
	2593.005	Outer_Full	28.85	30.95	/	Pass
	2674.995	Outer_Full	28.81	31.59	/	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	28.72	31.29	/	Pass
	2593.005	Outer_Full	28.74	31.23	/	Pass
	2674.995	Outer_Full	28.75	30.81	/	Pass
CP-OFDM QPSK	2511	Outer_Full	28.75	31.97	/	Pass
	2593.005	Outer_Full	28.80	33.15	/	Pass
	2674.995	Outer_Full	28.79	30.93	/	Pass
CP-OFDM 16 QAM	2511	Outer_Full	28.76	31.28	/	Pass
	2593.005	Outer_Full	28.82	31.36	/	Pass
	2674.995	Outer_Full	28.87	30.88	/	Pass
CP-OFDM 64 QAM	2511	Outer_Full	28.79	31.07	/	Pass
	2593.005	Outer_Full	28.93	31.03	/	Pass
	2674.995	Outer_Full	28.87	30.75	/	Pass
CP-OFDM 256 QAM	2511	Outer_Full	28.74	30.80	/	Pass
	2593.005	Outer_Full	28.83	30.80	/	Pass
	2674.995	Outer_Full	28.81	30.78	/	Pass

6.4.2 Test Graph

n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2511MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2593.005MHz_Outer_Full



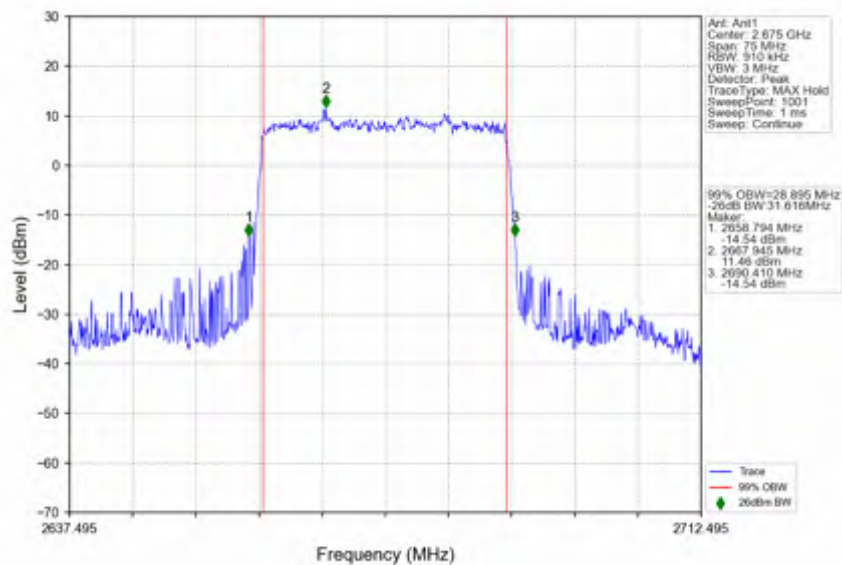
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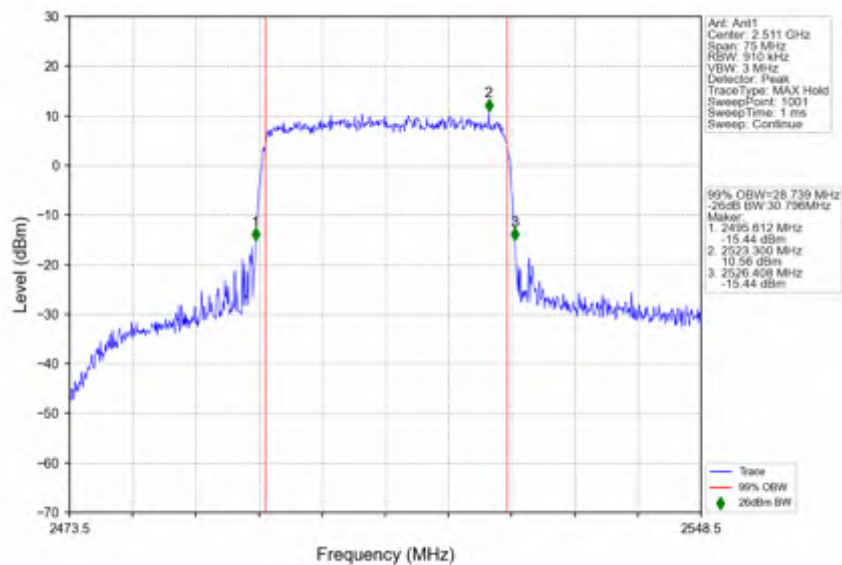
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.995MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full



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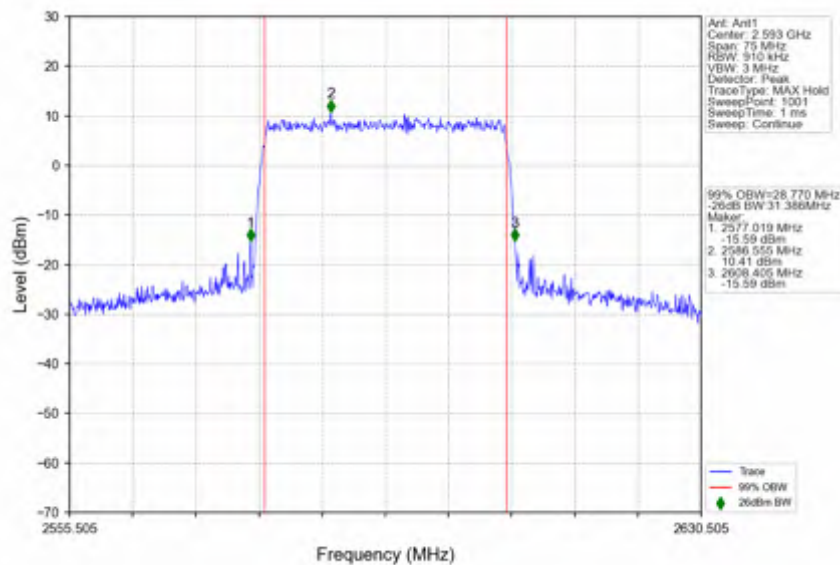
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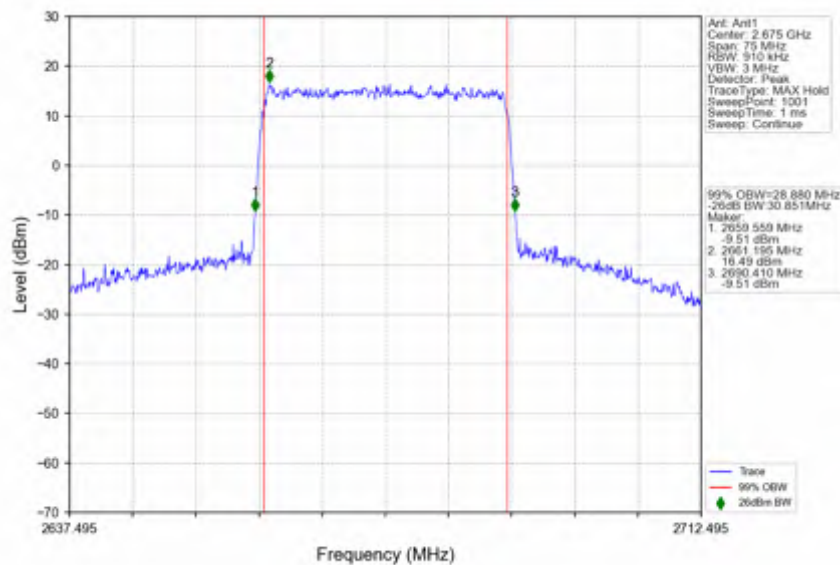
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2674.995MHz_Outer_Full



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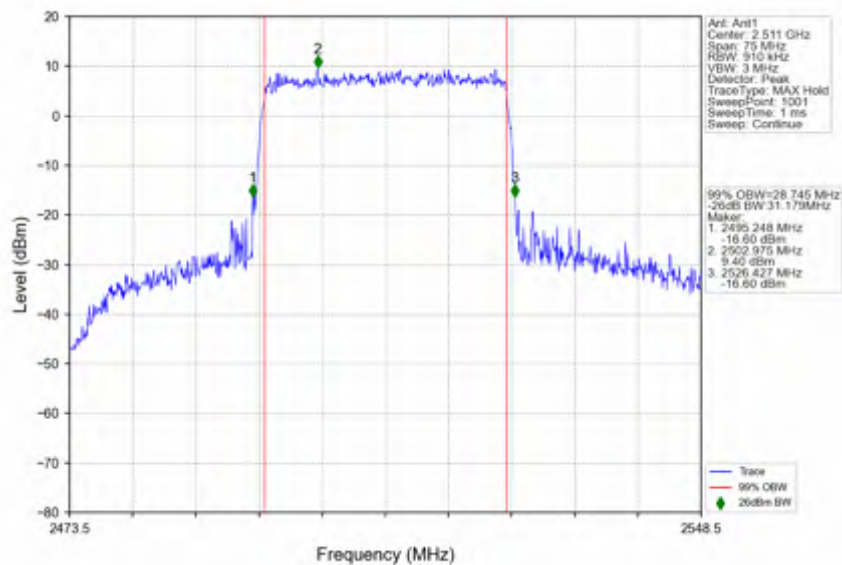
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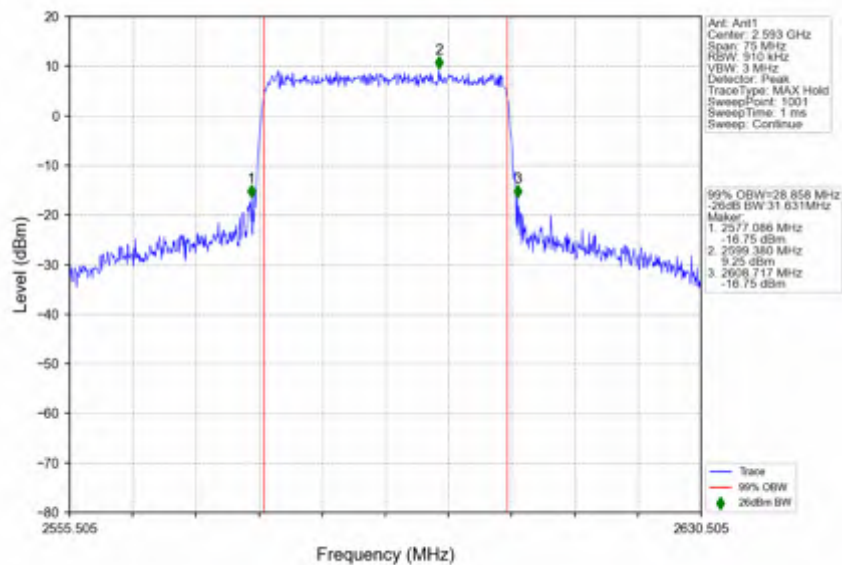
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2511MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2593.005MHz_Outer_Full

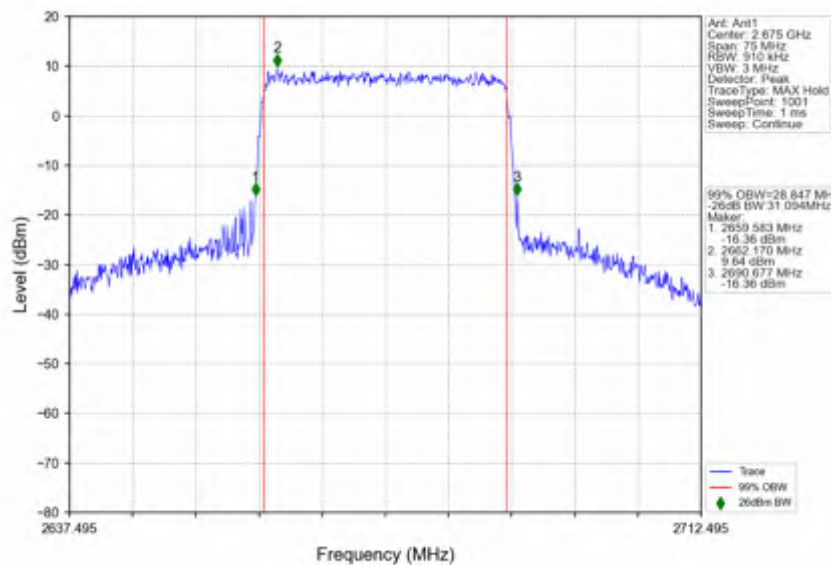


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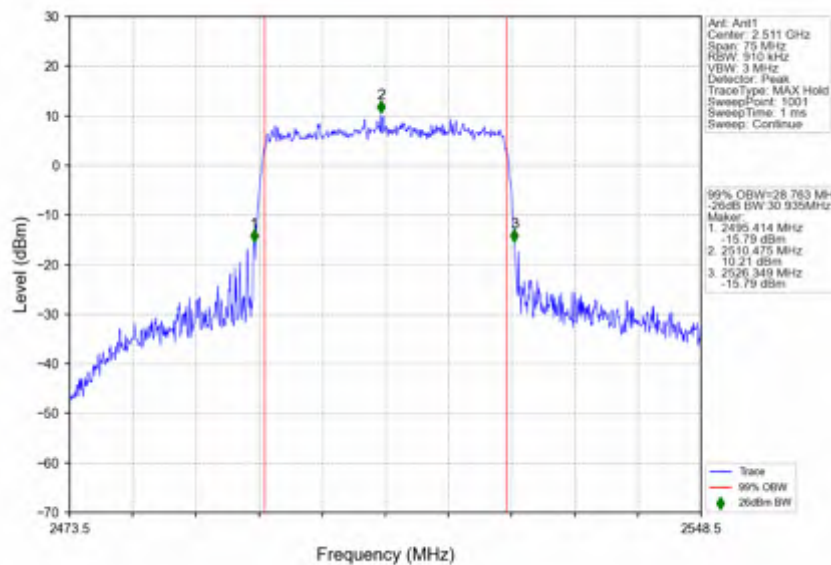
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2511MHz_Outer_Full

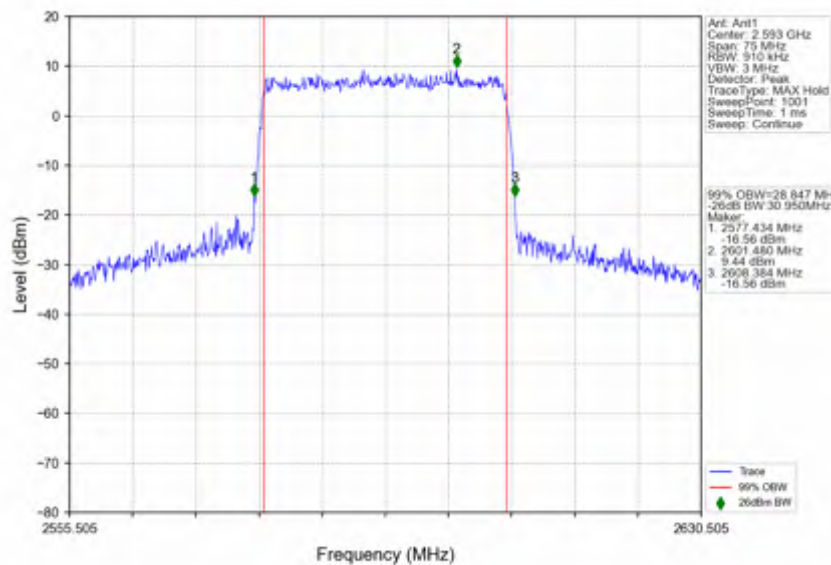


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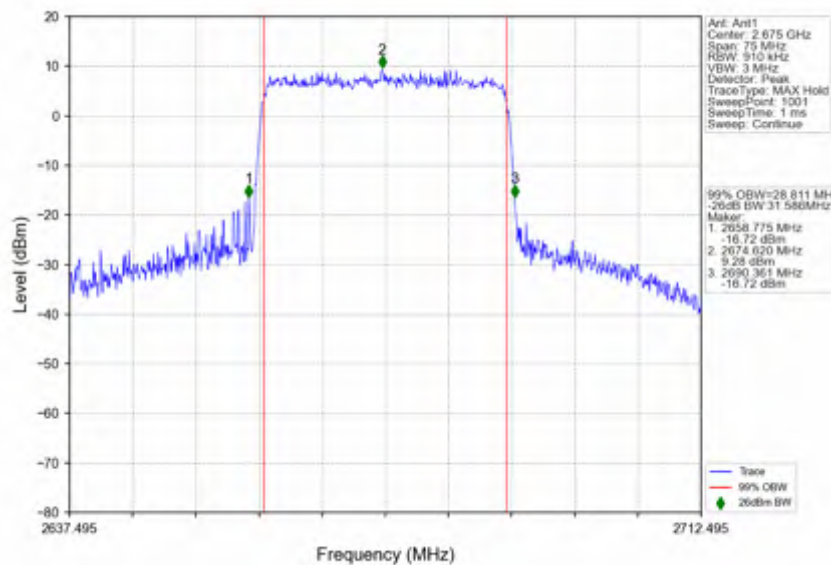
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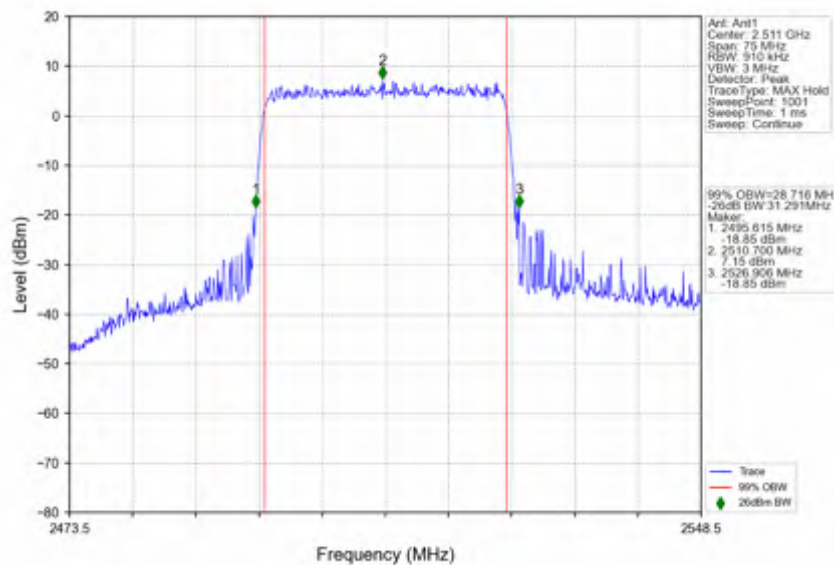


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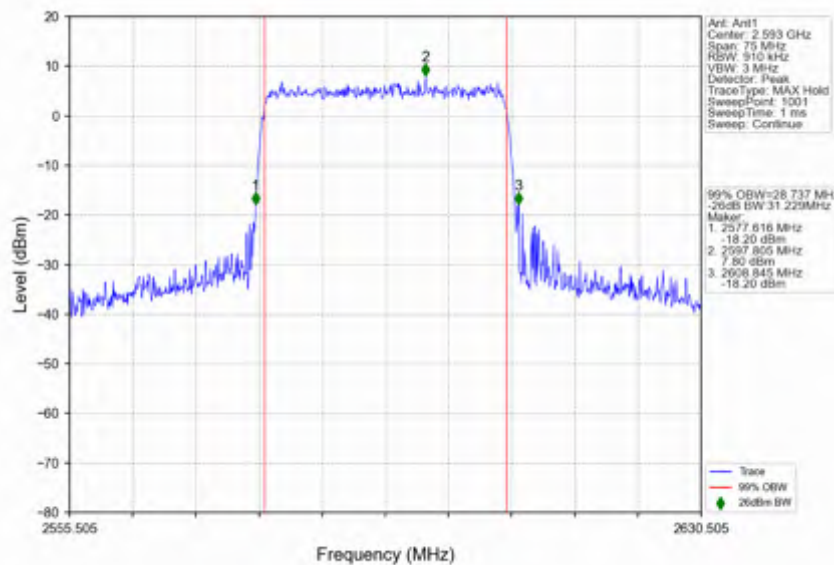
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n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2511MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2593.005MHz_Outer_Full



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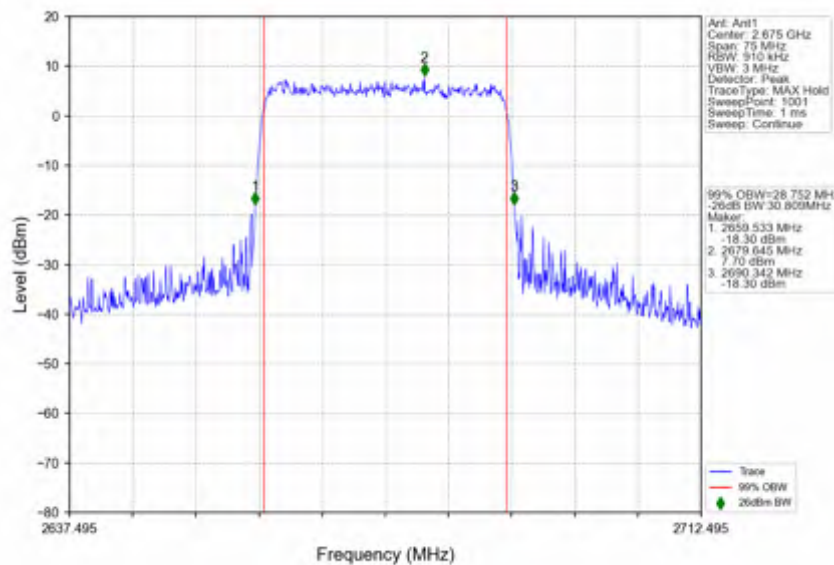
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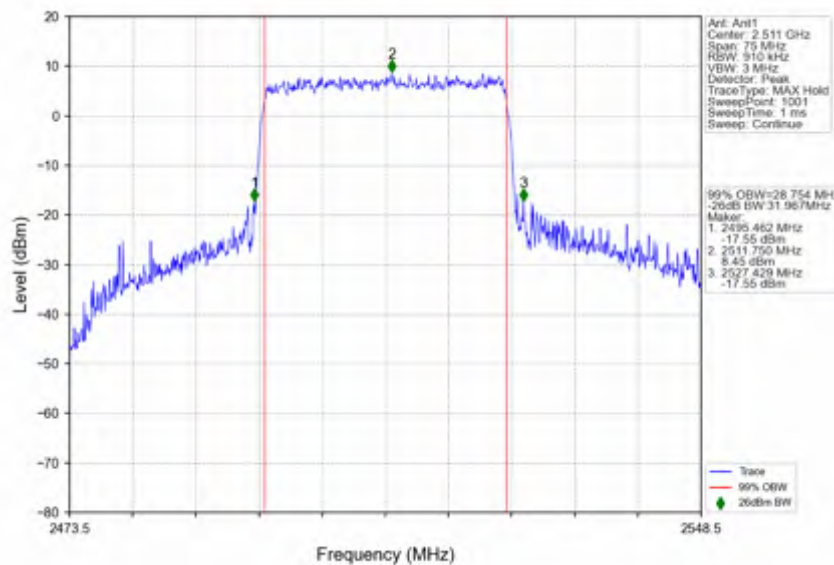
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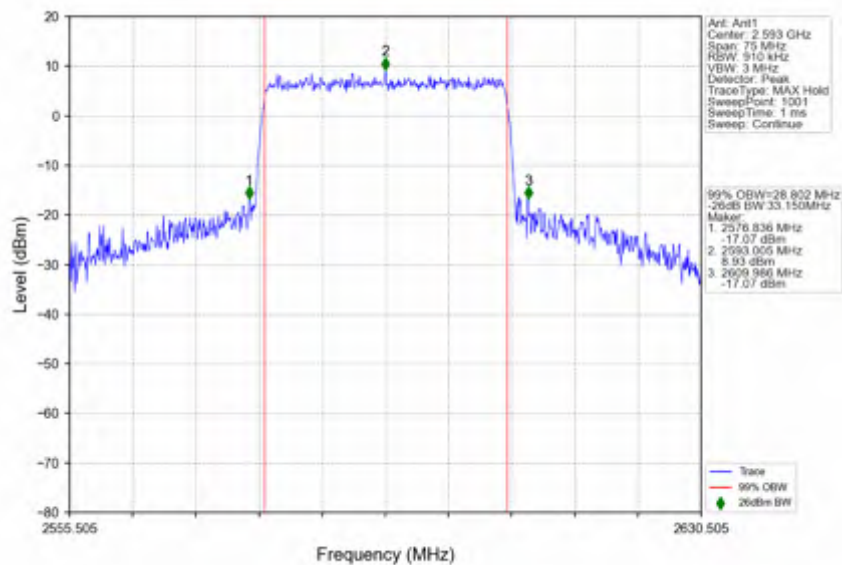


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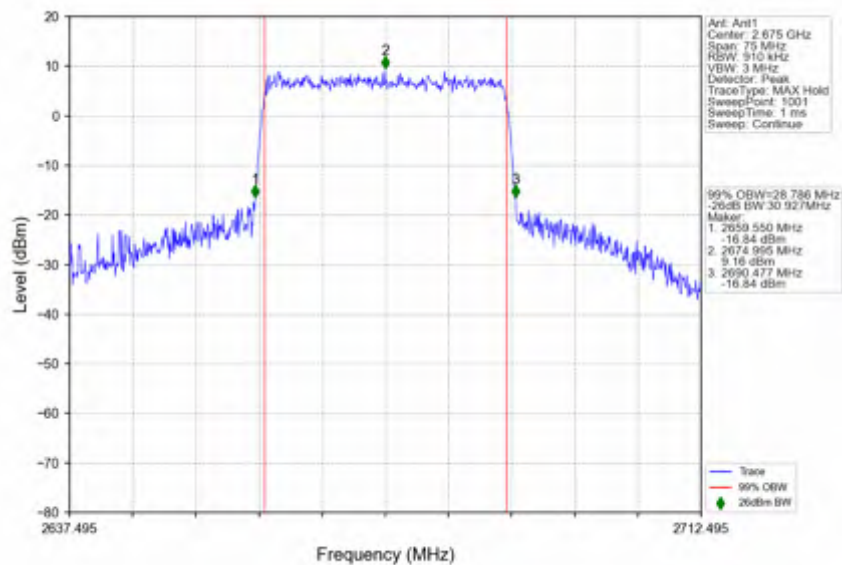
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2593.005MHz_Outer_Full



n41	15kHz	SISO	NTNV	30MHz	CP-OFDM	QPSK	2674.995MHz	Outer	Full
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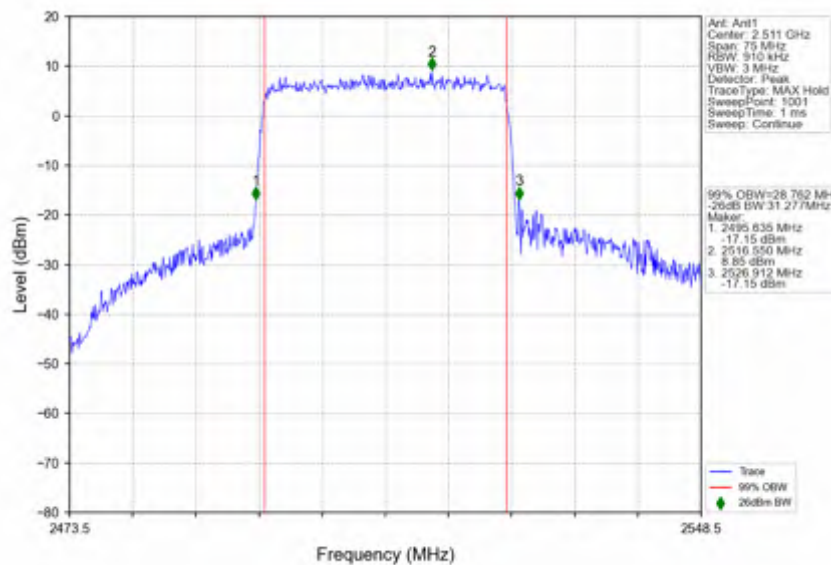


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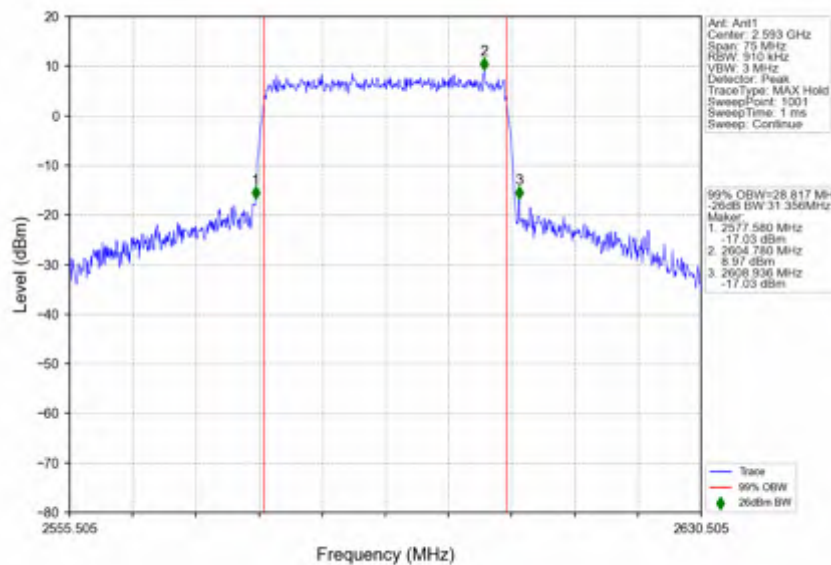
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2511MHz_Outer_Full



n41_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2593.005MHz_Outer_Full



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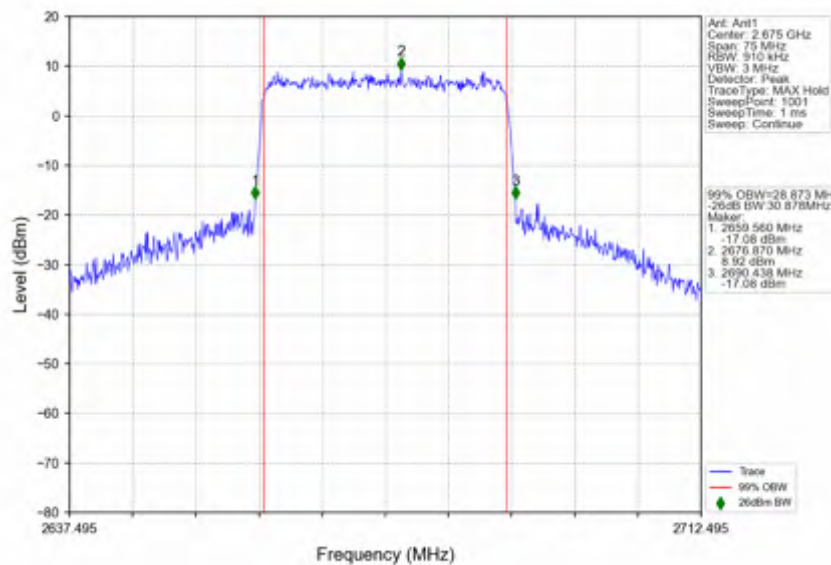
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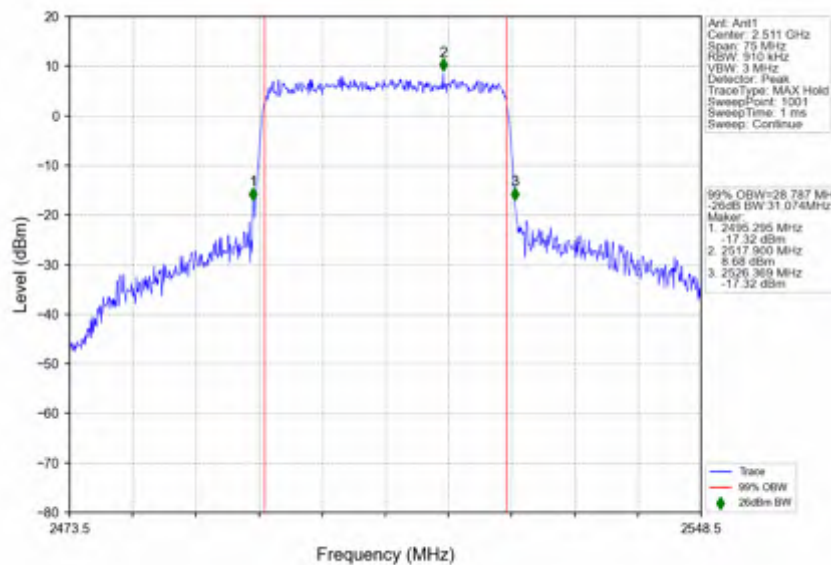
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n41 15kHz SISO NTN 30MHz CP-OFDM 64 QAM 2511MHz Outer Full

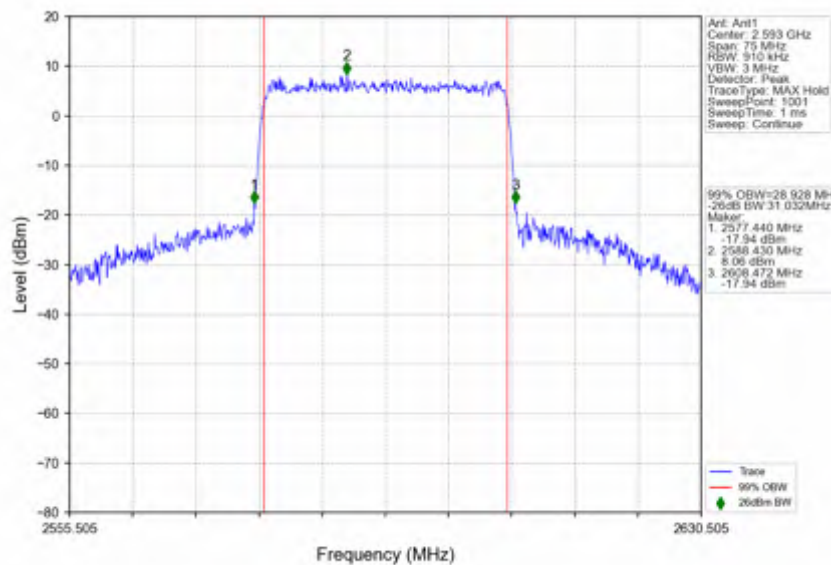


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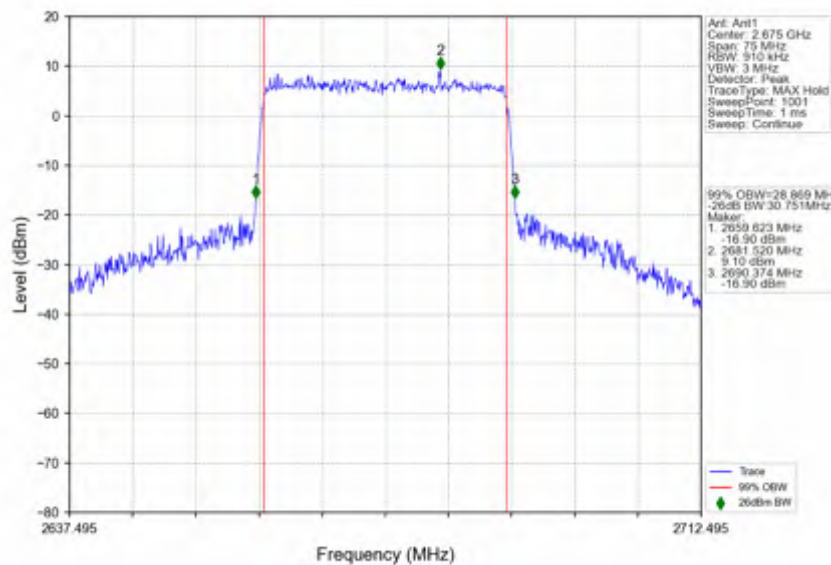
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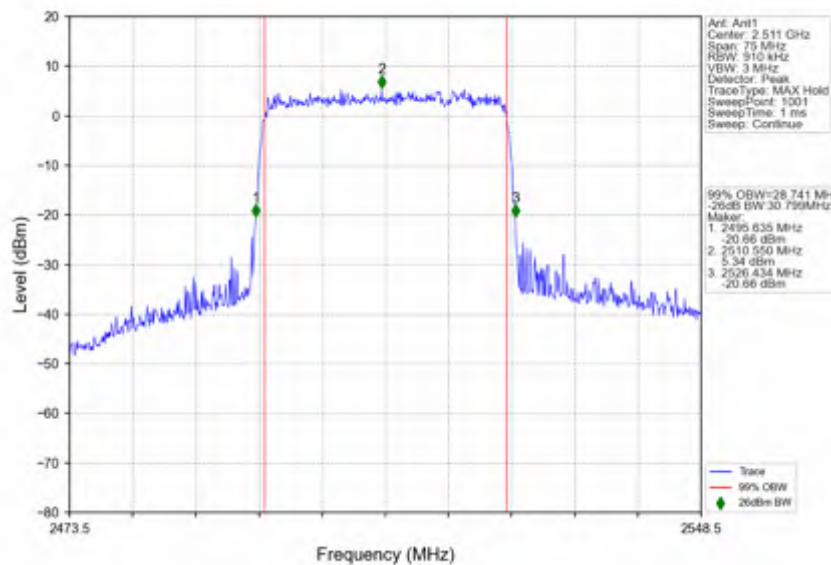
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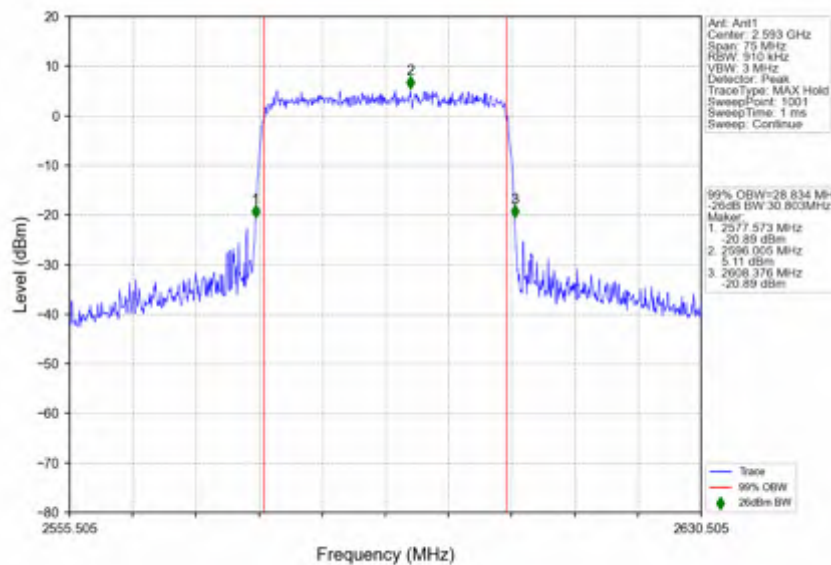
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n41_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2593.005MHz_Outer_Full



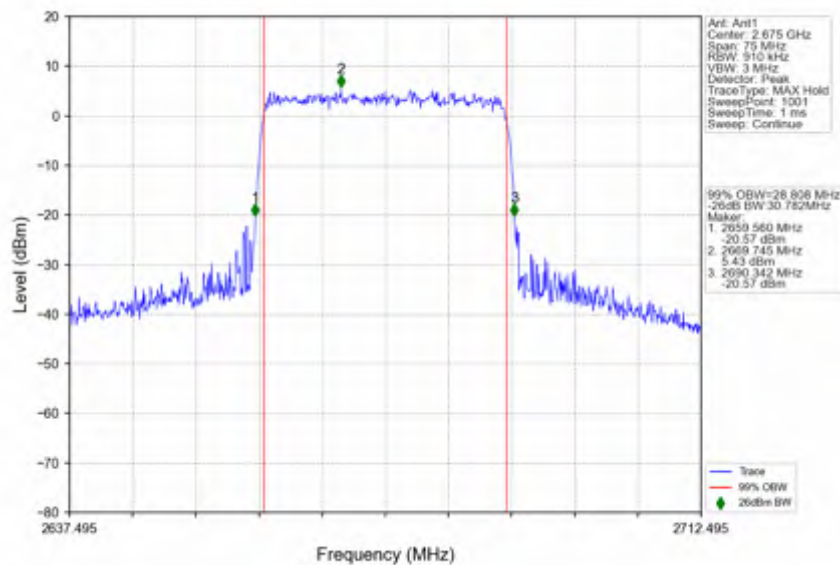
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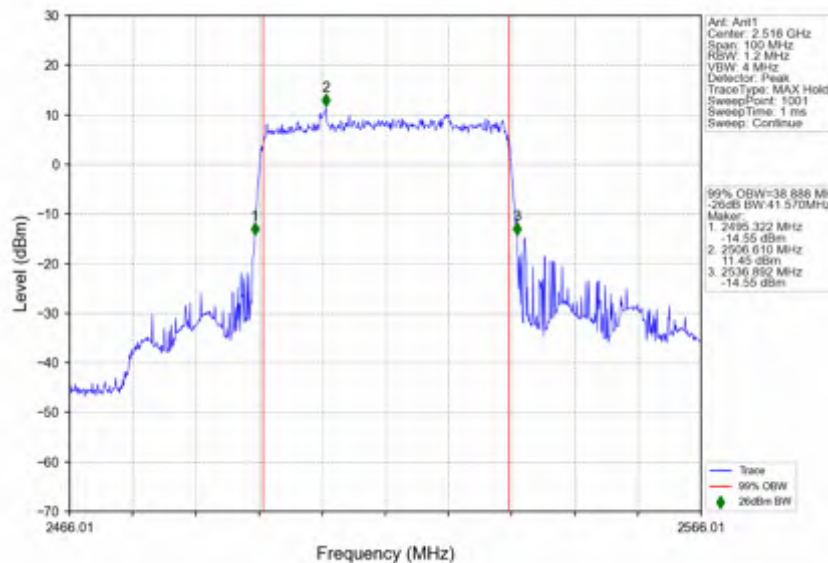
6.5 15k_SISO_40MHz_NTNV

6.5.1 Test Result

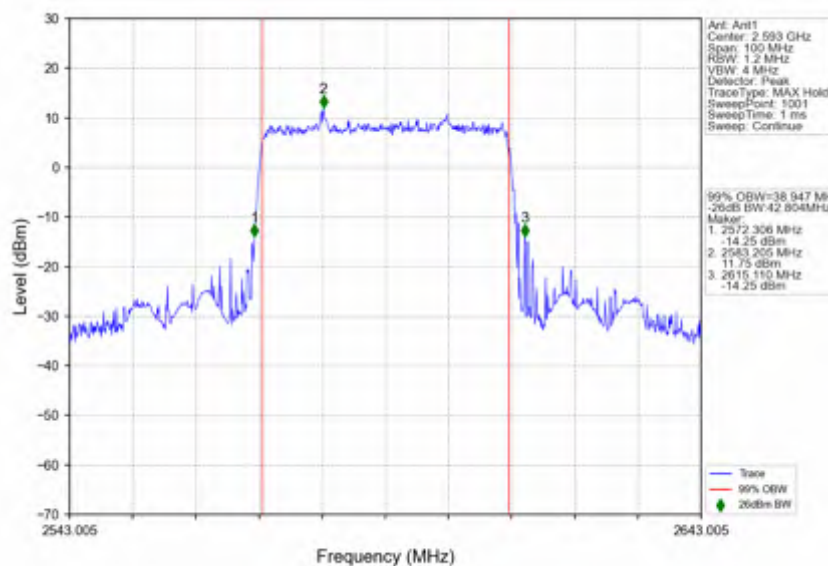
5G NR n41 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2516.01	Outer_Full	38.89	41.57	/	Pass
	2593.005	Outer_Full	38.95	42.80	/	Pass
	2670	Outer_Full	38.89	41.46	/	Pass
DFT-s-OFDM QPSK	2516.01	Outer_Full	38.87	41.66	/	Pass
	2593.005	Outer_Full	38.96	41.60	/	Pass
	2670	Outer_Full	38.87	43.19	/	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	38.66	41.70	/	Pass
	2593.005	Outer_Full	38.80	43.56	/	Pass
	2670	Outer_Full	38.84	42.85	/	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	38.77	43.23	/	Pass
	2593.005	Outer_Full	38.89	45.03	/	Pass
	2670	Outer_Full	38.84	42.32	/	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	38.78	41.38	/	Pass
	2593.005	Outer_Full	38.92	41.84	/	Pass
	2670	Outer_Full	38.83	41.45	/	Pass
CP-OFDM QPSK	2516.01	Outer_Full	38.90	41.90	/	Pass
	2593.005	Outer_Full	38.98	44.35	/	Pass
	2670	Outer_Full	39.07	41.52	/	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	38.82	41.78	/	Pass
	2593.005	Outer_Full	38.96	41.58	/	Pass
	2670	Outer_Full	38.92	41.46	/	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	38.84	42.05	/	Pass
	2593.005	Outer_Full	39.13	42.14	/	Pass
	2670	Outer_Full	38.93	42.20	/	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	38.82	42.49	/	Pass
	2593.005	Outer_Full	38.91	43.75	/	Pass
	2670	Outer_Full	38.74	43.17	/	Pass

6.5.2 Test Graph

n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2516.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2593.005MHz_Outer_Full



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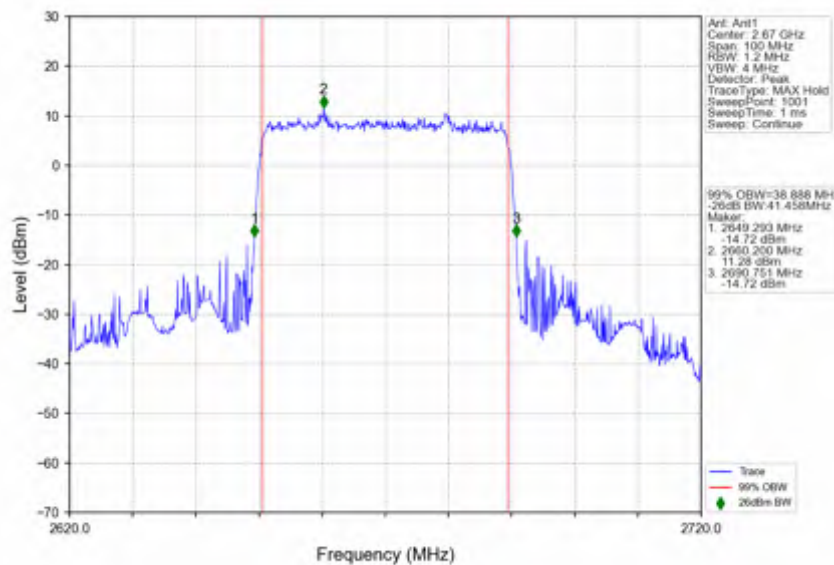
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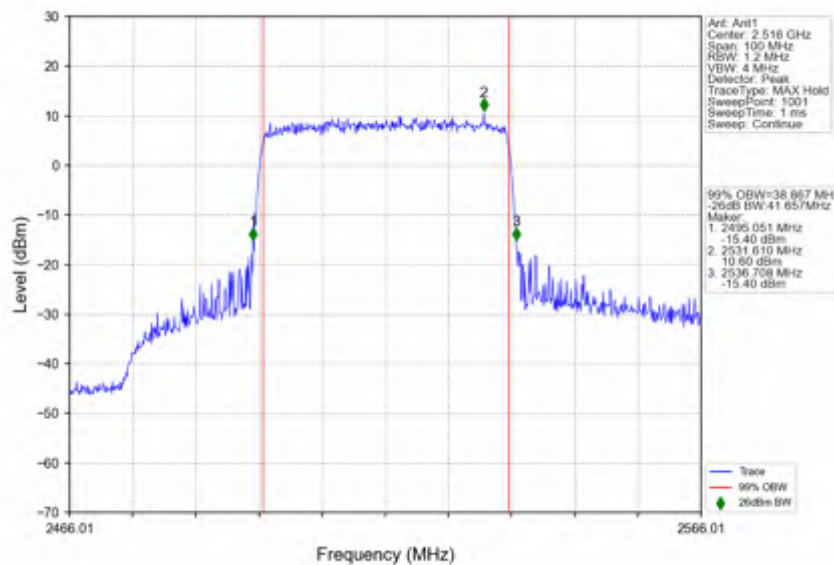
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n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2516.01MHz_Outer_Full

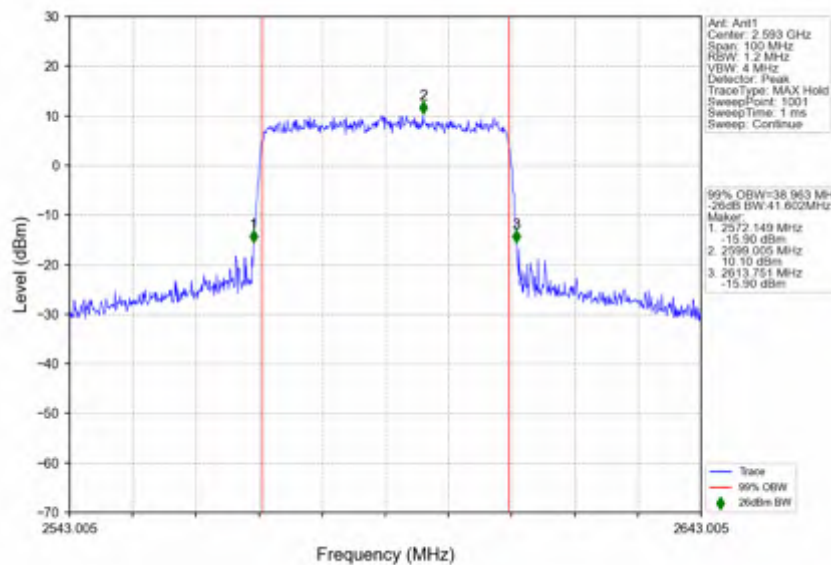


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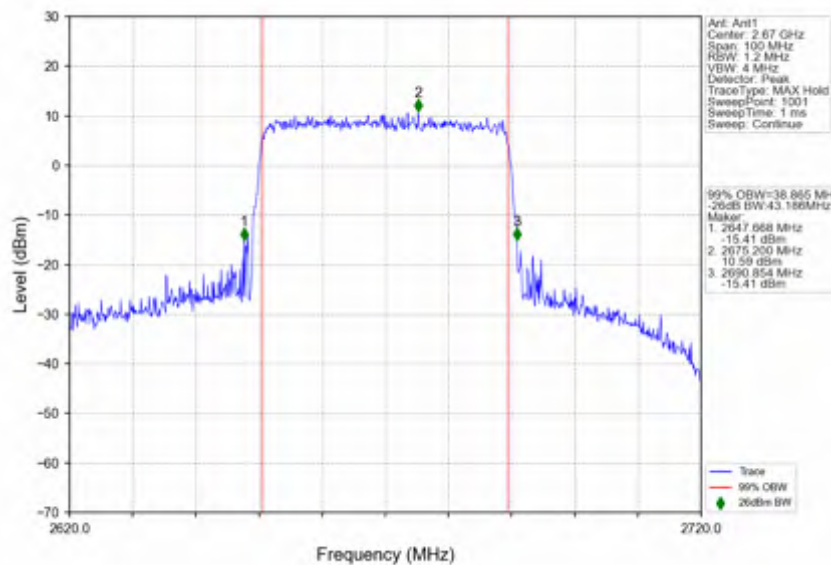
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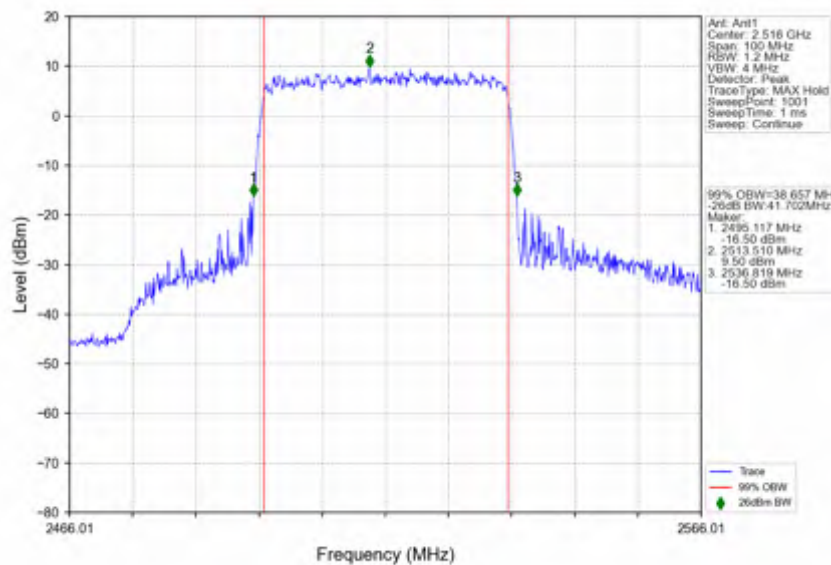
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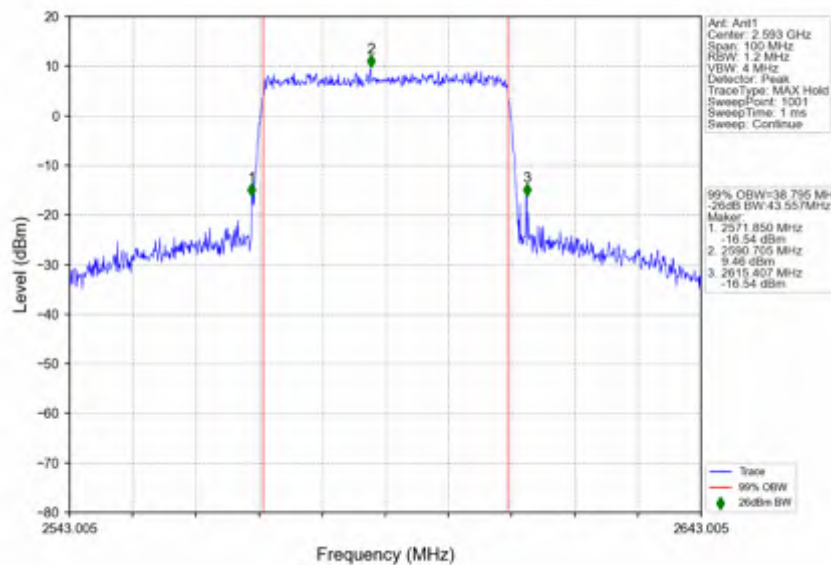
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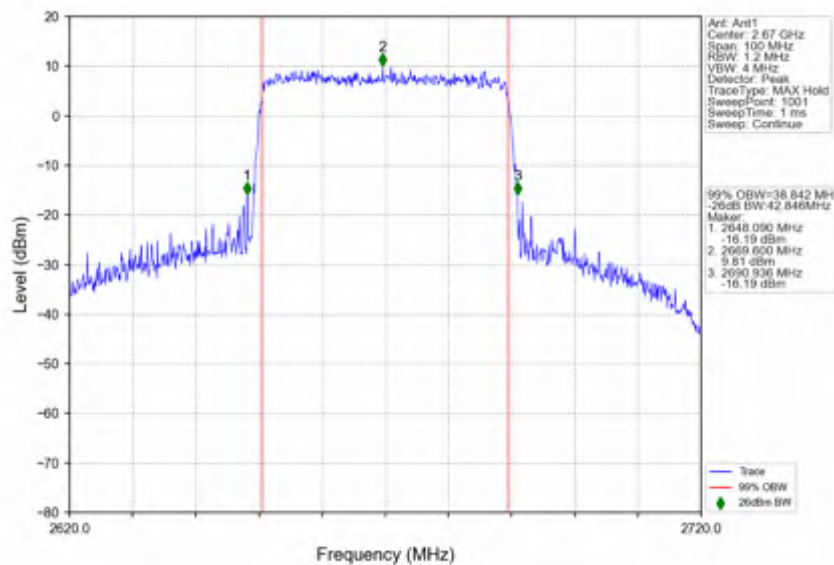
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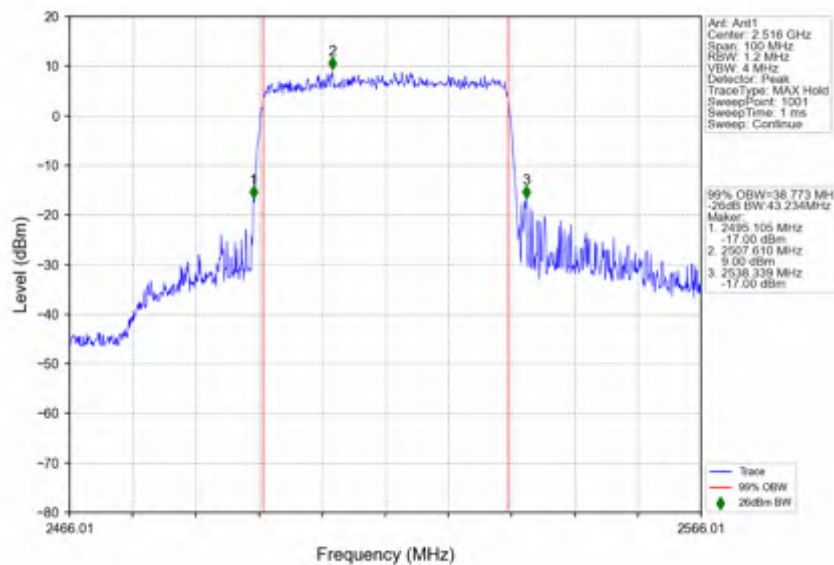
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n41	15kHz	SISO	NTNV	40MHz	DFT-s-OFDM	64 QAM	2516.01MHz	Outer	Full
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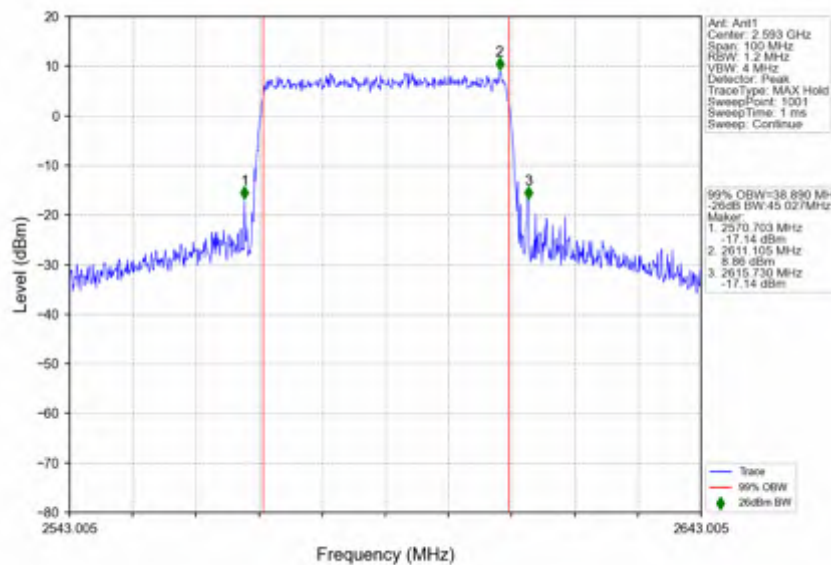


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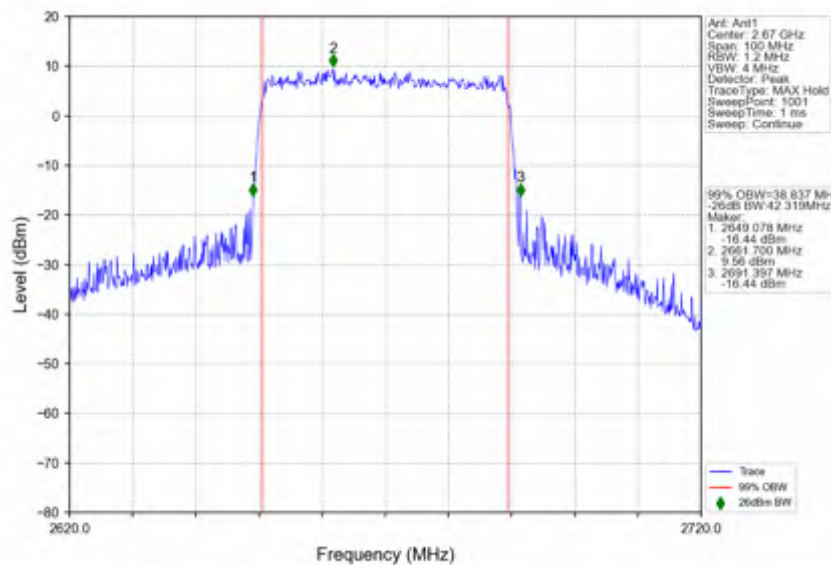
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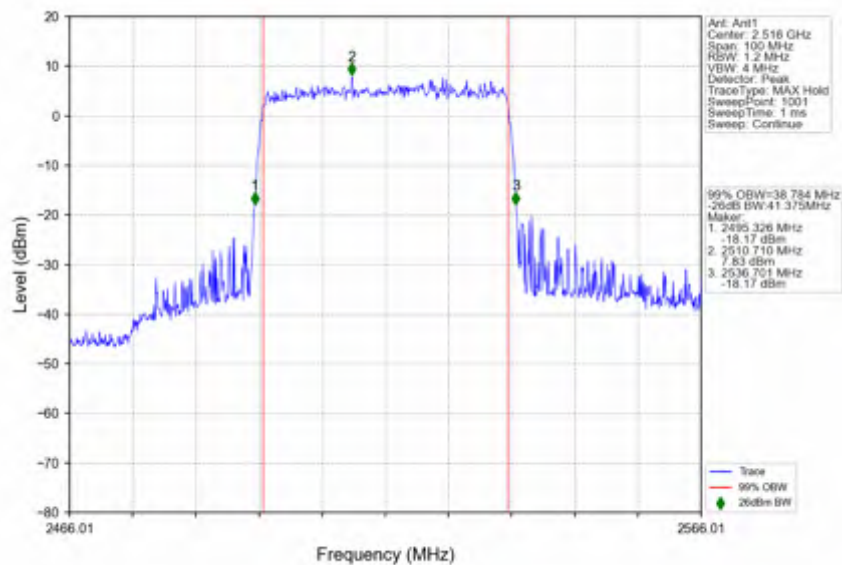


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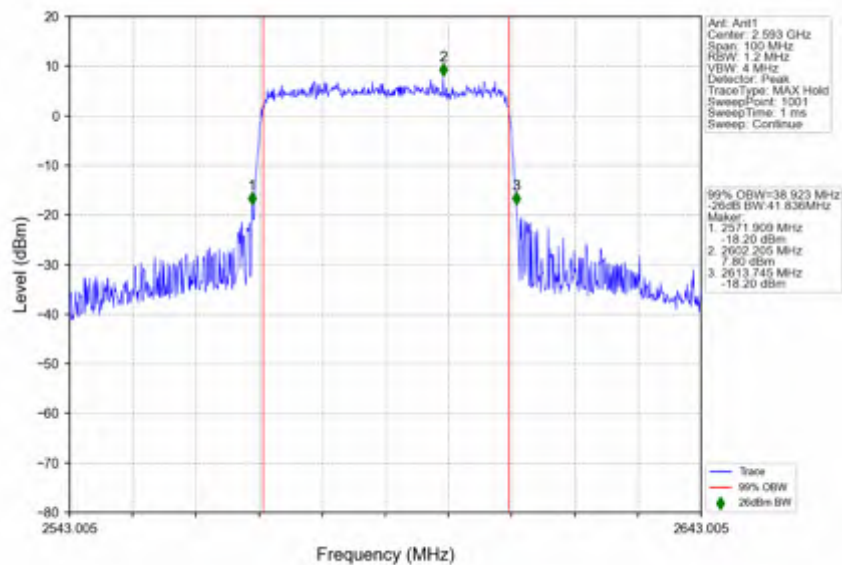
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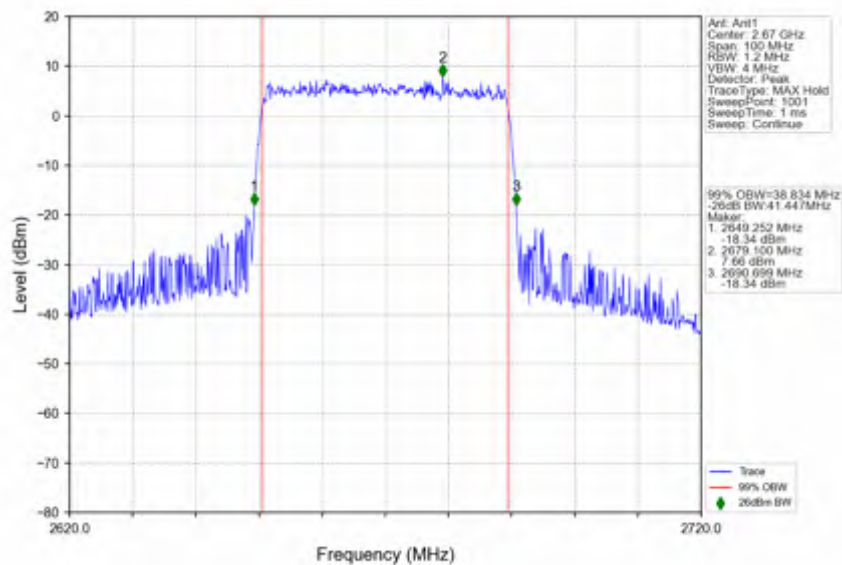


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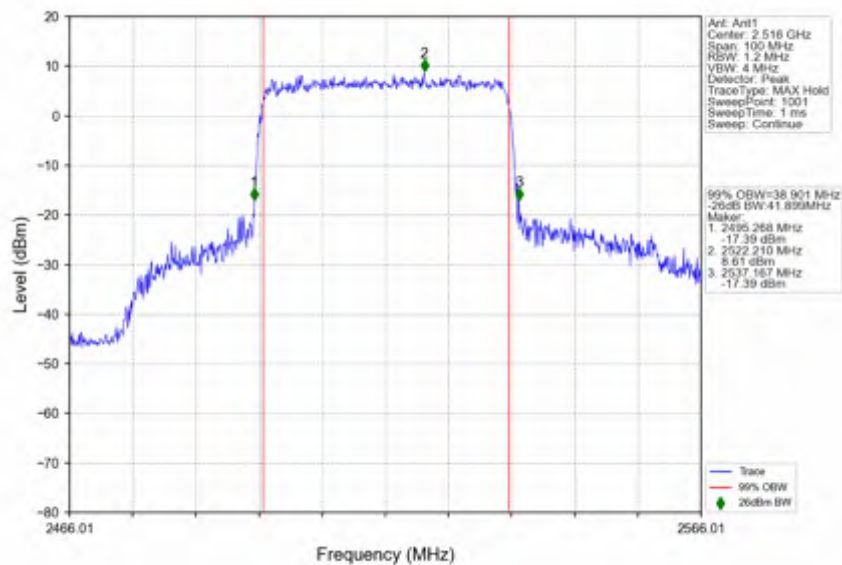
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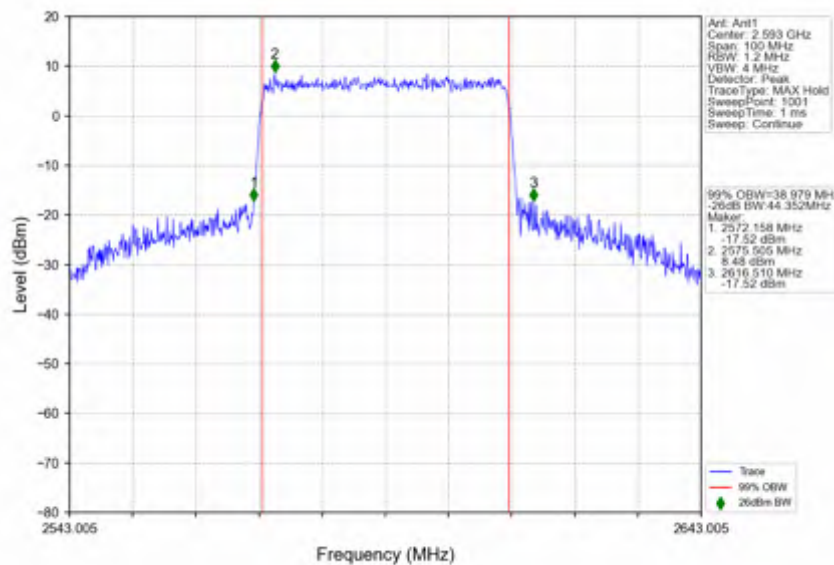


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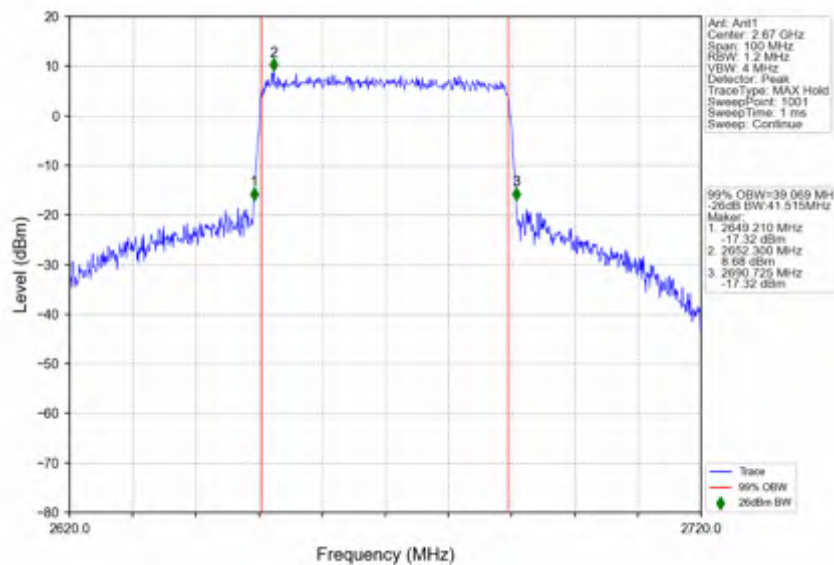
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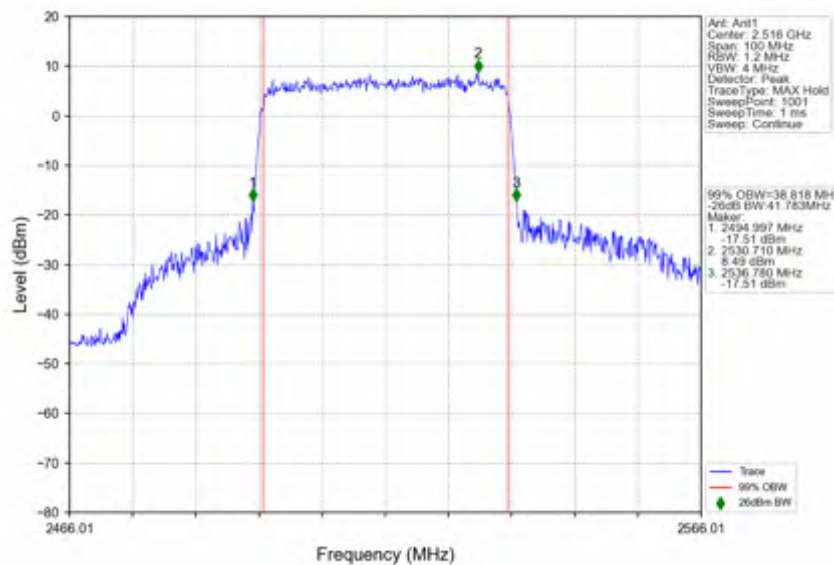
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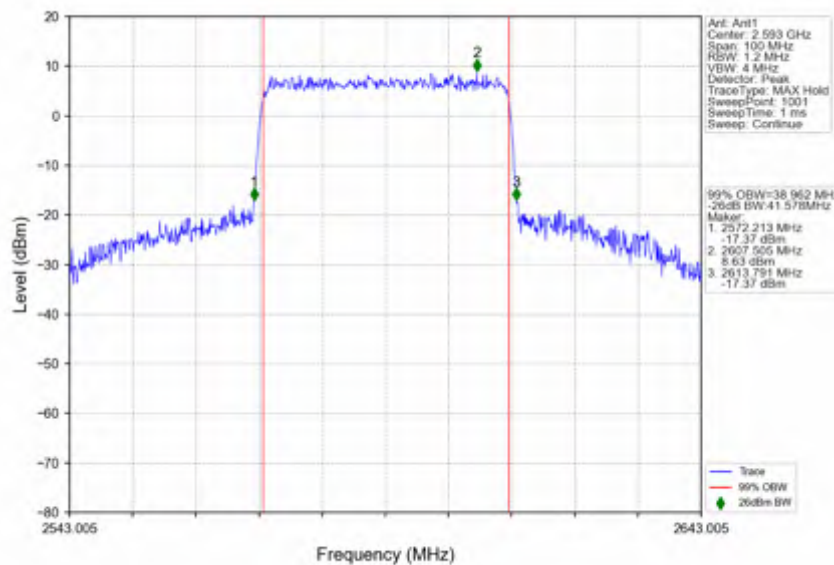
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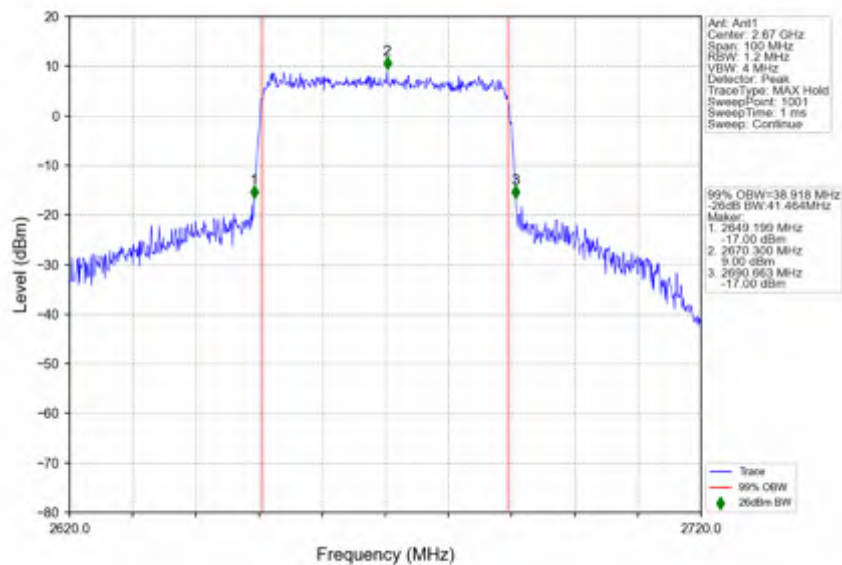
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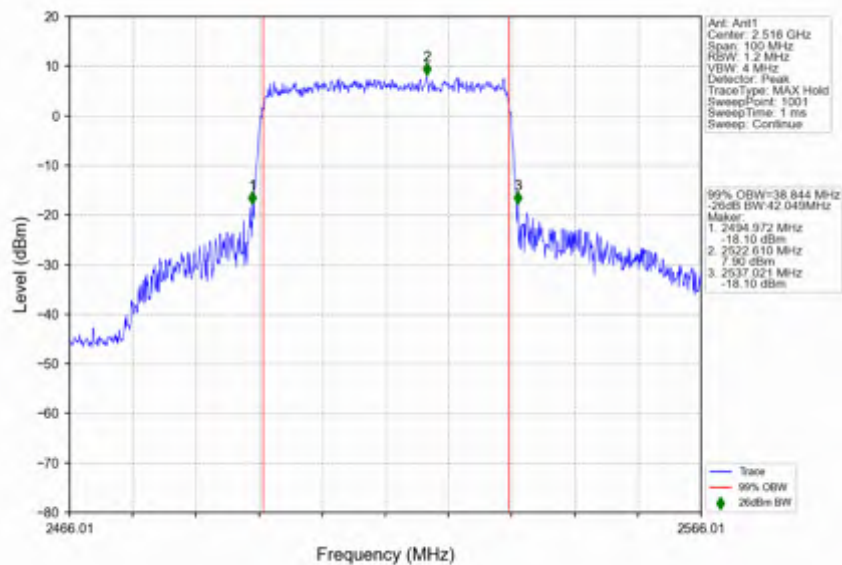
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n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2670MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2516.01MHz_Outer_Full



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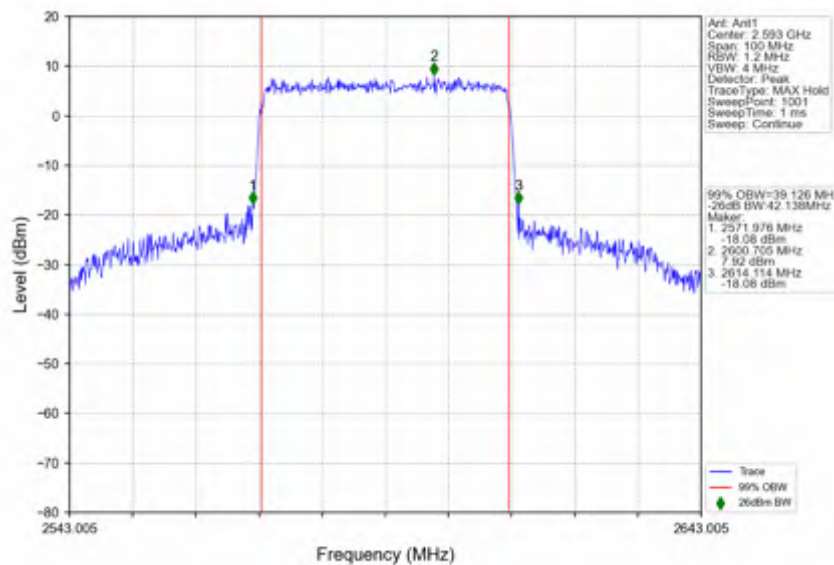
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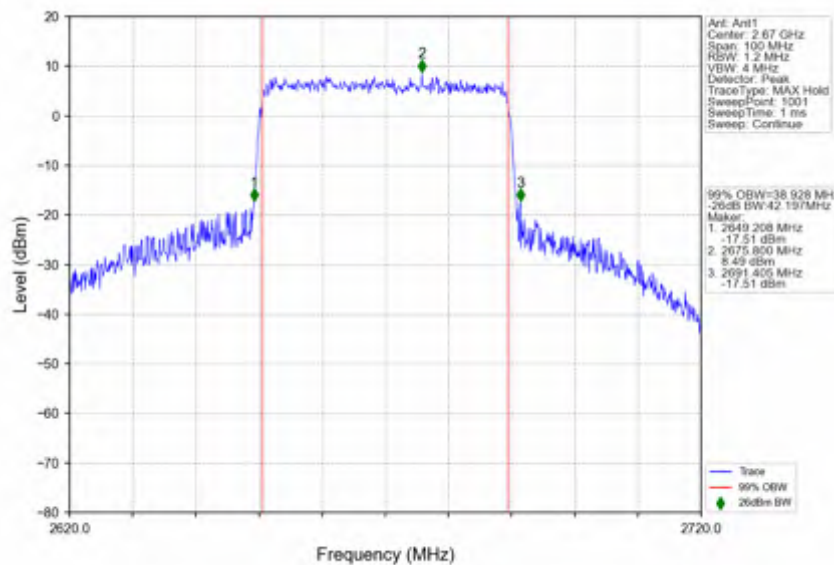
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n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2593.005MHz_Outer_Full



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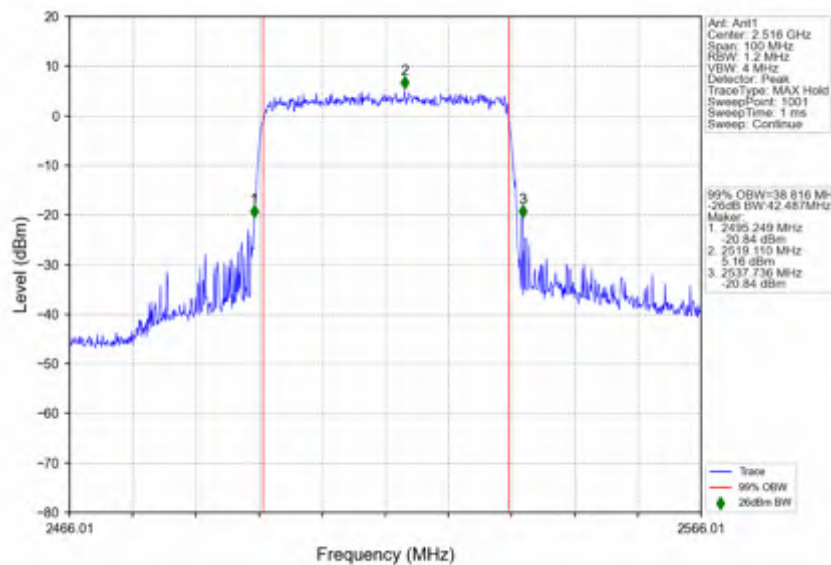
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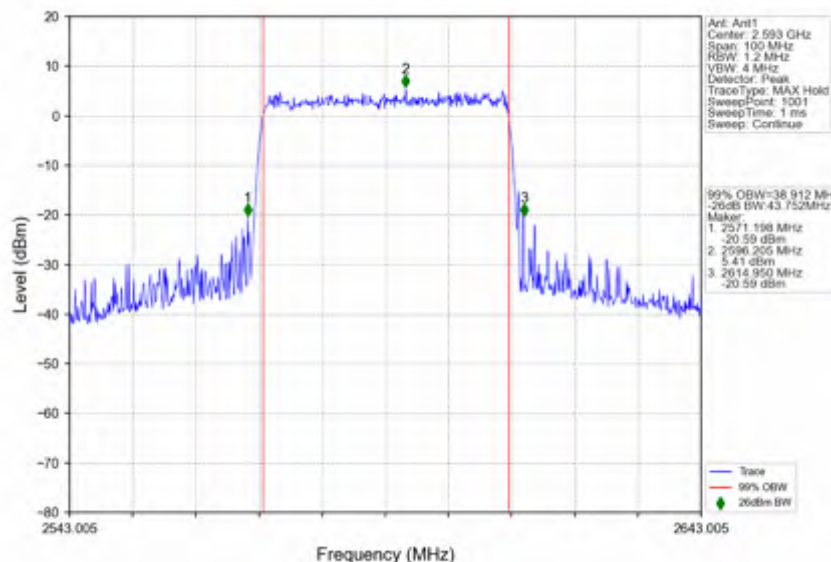
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n41_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2516.01MHz_Outer_Full



n41	15kHz	SISO	NTNV	40MHz	CP-OFDM	256 QAM	2593.005MHz	Outer	Full
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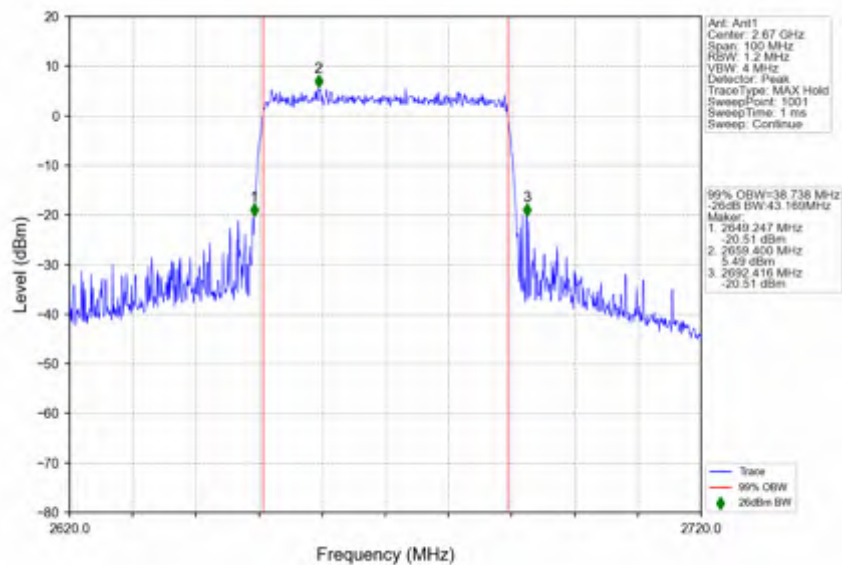


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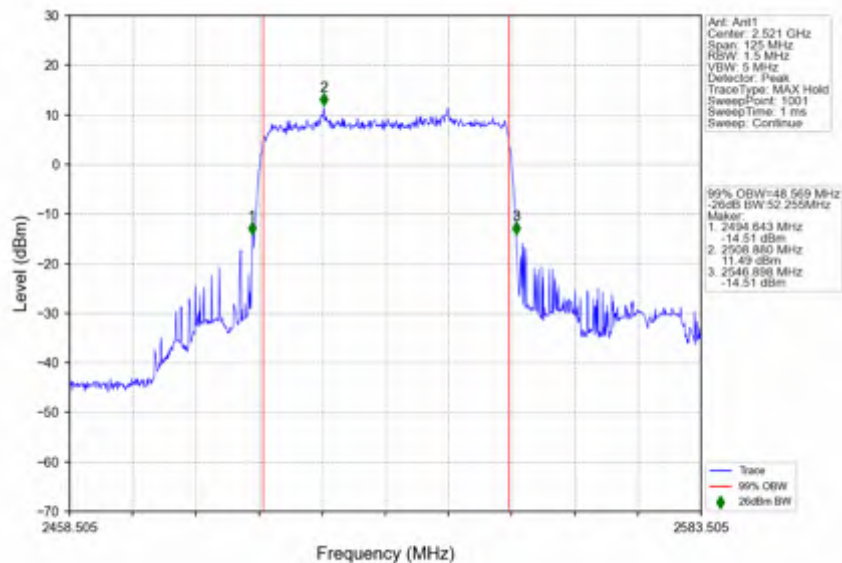
6.6 15k_SISO_50MHz_NTNV

6.6.1 Test Result

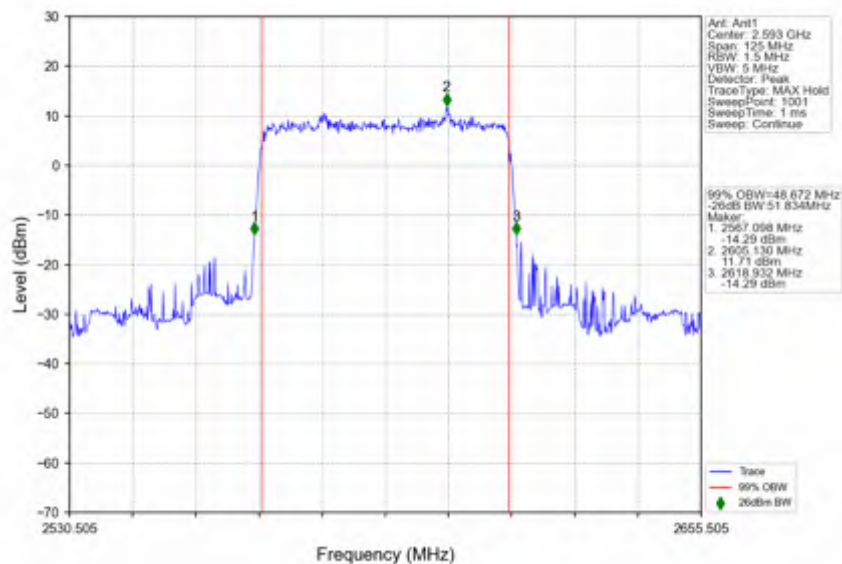
5G NR n41 SCS=15kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2521.005	Outer_Full	48.57	52.26	/	Pass
	2593.005	Outer_Full	48.67	51.83	/	Pass
	2664.99	Outer_Full	48.66	53.67	/	Pass
DFT-s-OFDM QPSK	2521.005	Outer_Full	48.60	52.46	/	Pass
	2593.005	Outer_Full	48.76	52.51	/	Pass
	2664.99	Outer_Full	48.77	52.40	/	Pass
DFT-s-OFDM 16 QAM	2521.005	Outer_Full	48.59	52.24	/	Pass
	2593.005	Outer_Full	48.62	52.03	/	Pass
	2664.99	Outer_Full	48.54	52.13	/	Pass
DFT-s-OFDM 64 QAM	2521.005	Outer_Full	48.64	52.57	/	Pass
	2593.005	Outer_Full	48.68	51.90	/	Pass
	2664.99	Outer_Full	48.58	52.17	/	Pass
DFT-s-OFDM 256 QAM	2521.005	Outer_Full	48.61	51.80	/	Pass
	2593.005	Outer_Full	48.69	51.91	/	Pass
	2664.99	Outer_Full	48.69	51.91	/	Pass
CP-OFDM QPSK	2521.005	Outer_Full	48.68	51.94	/	Pass
	2593.005	Outer_Full	48.85	61.47	/	Pass
	2664.99	Outer_Full	48.66	58.45	/	Pass
CP-OFDM 16 QAM	2521.005	Outer_Full	48.52	51.85	/	Pass
	2593.005	Outer_Full	48.68	55.08	/	Pass
	2664.99	Outer_Full	48.79	55.43	/	Pass
CP-OFDM 64 QAM	2521.005	Outer_Full	48.57	51.76	/	Pass
	2593.005	Outer_Full	48.66	52.06	/	Pass
	2664.99	Outer_Full	48.65	51.85	/	Pass
CP-OFDM 256 QAM	2521.005	Outer_Full	48.41	51.82	/	Pass
	2593.005	Outer_Full	48.62	51.90	/	Pass
	2664.99	Outer_Full	48.51	51.78	/	Pass

6.6.2 Test Graph

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_2521.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_2593.005MHz_Outer_Full



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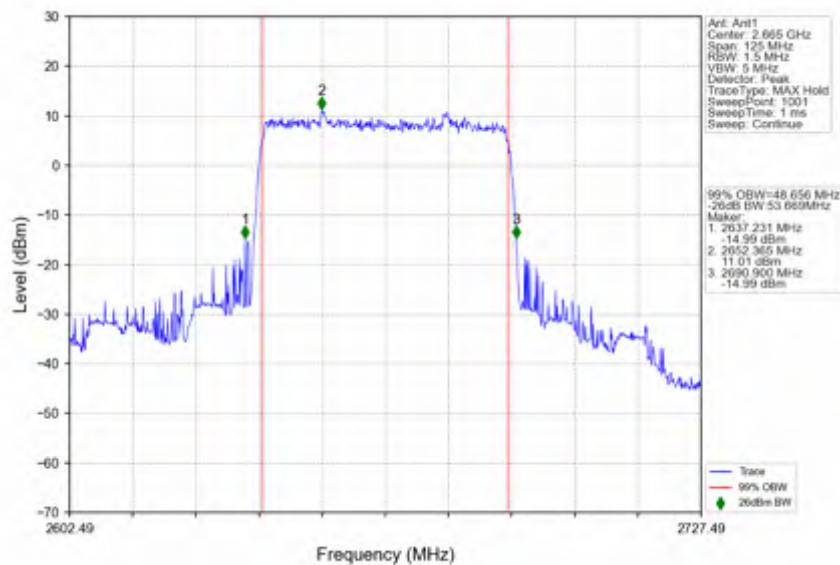
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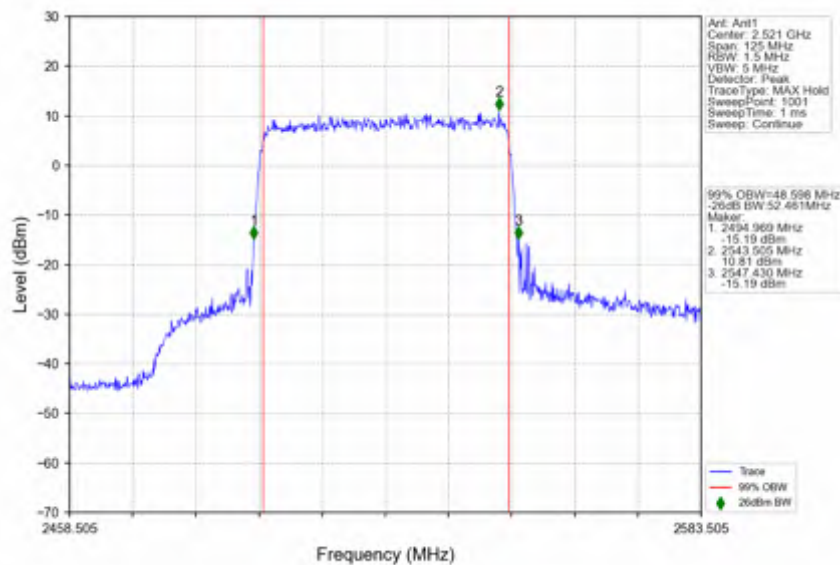
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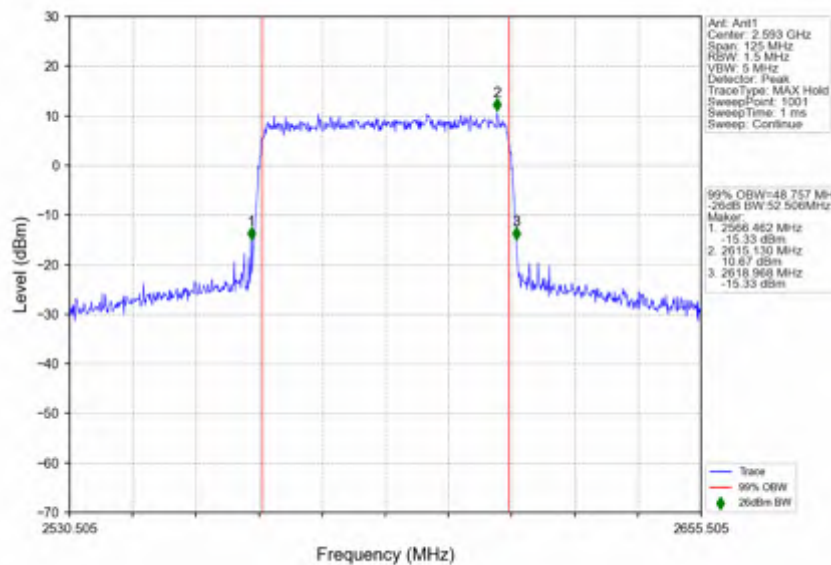


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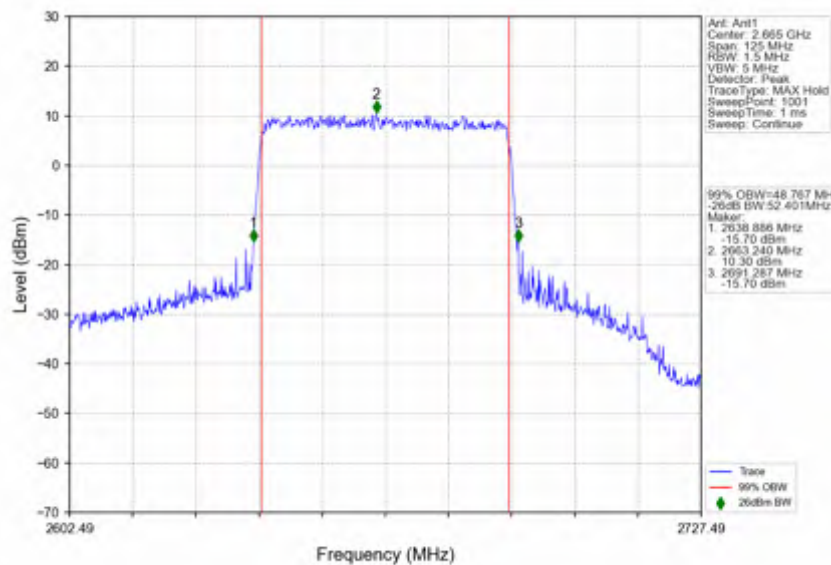
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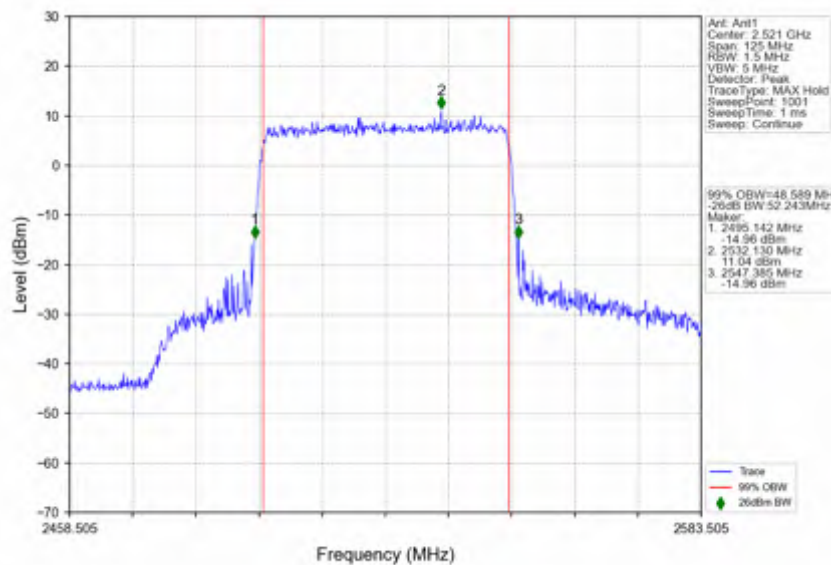
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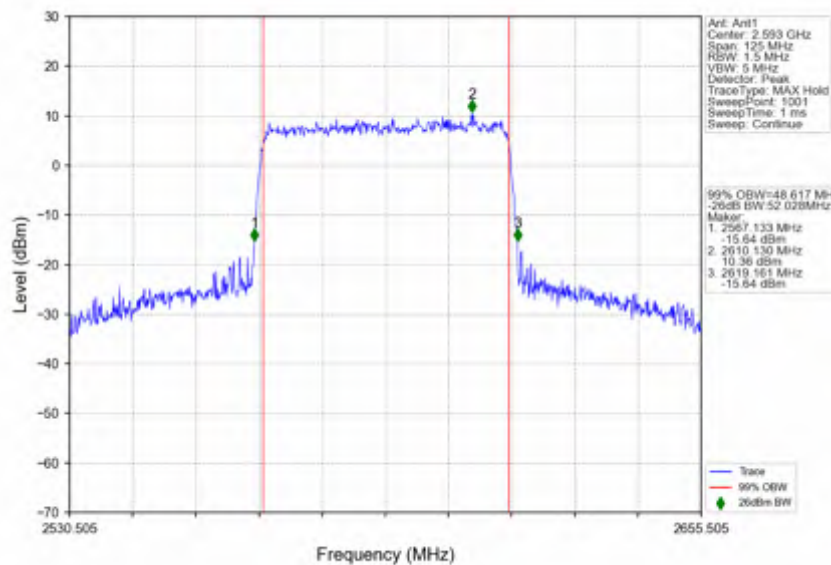
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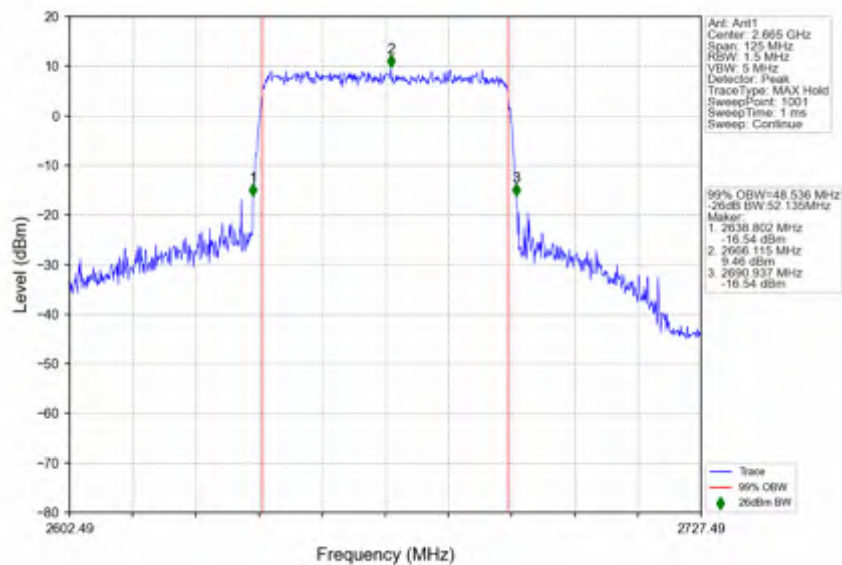


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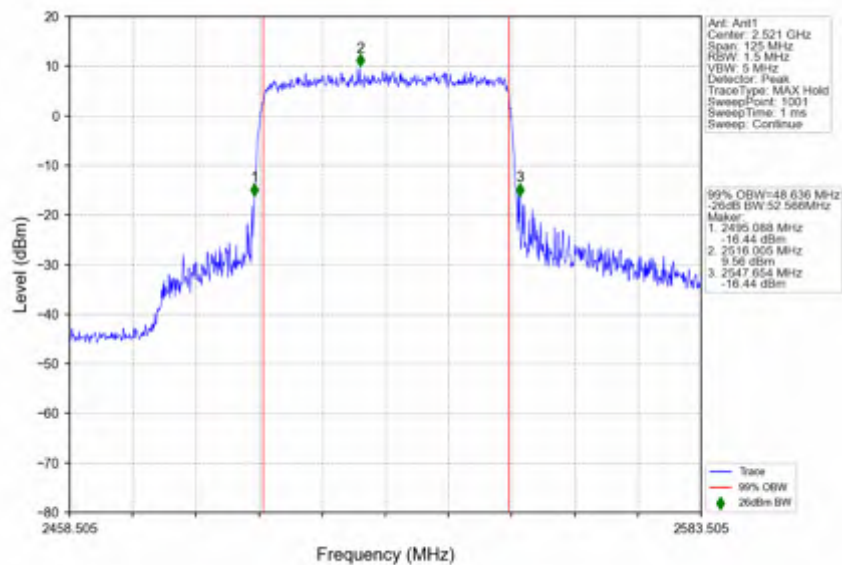
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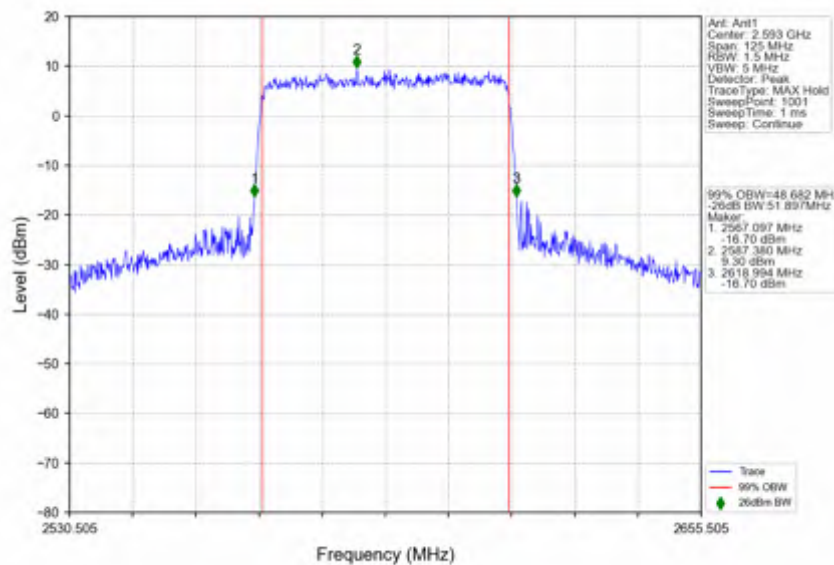


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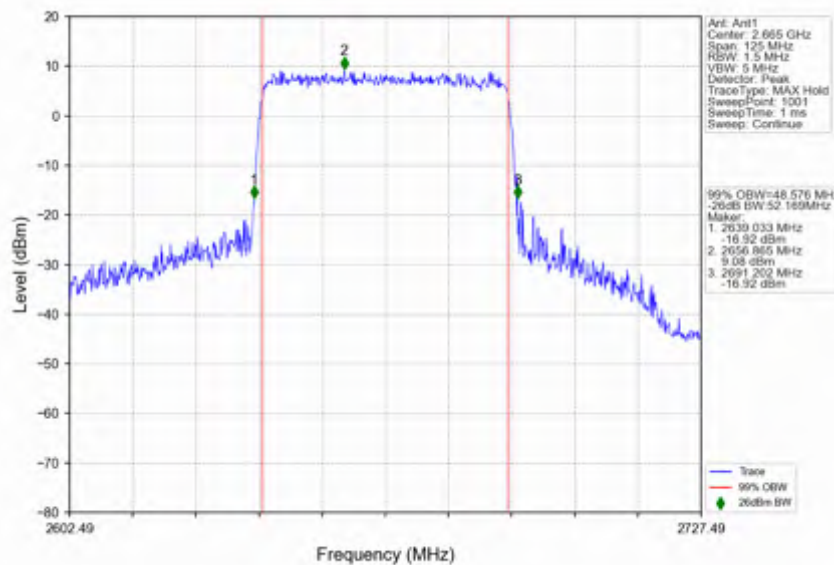
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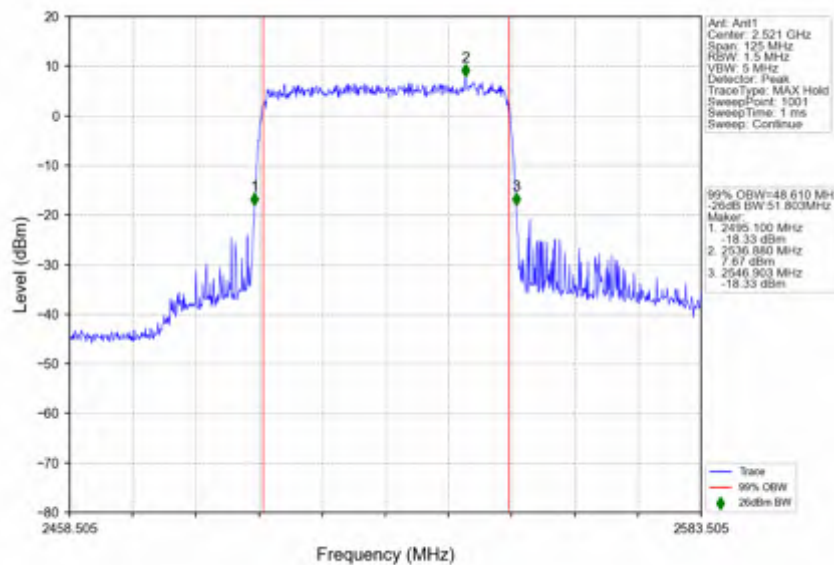


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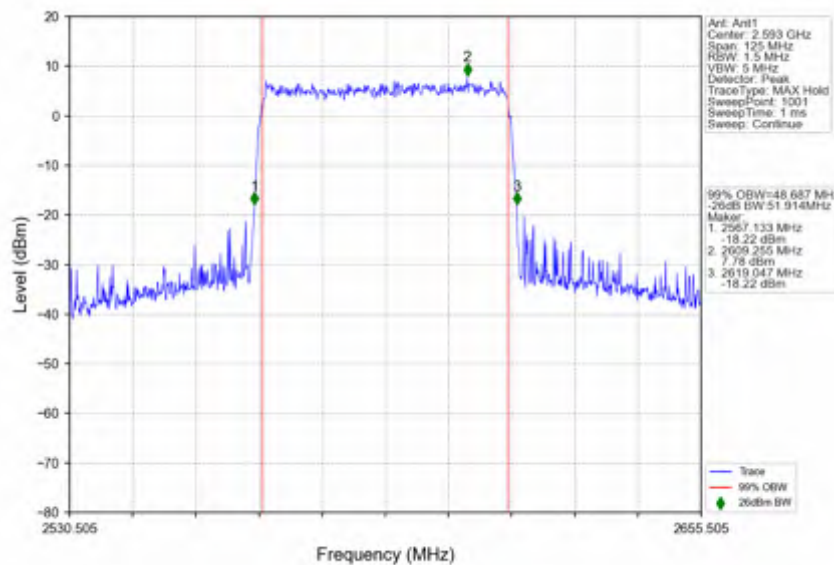
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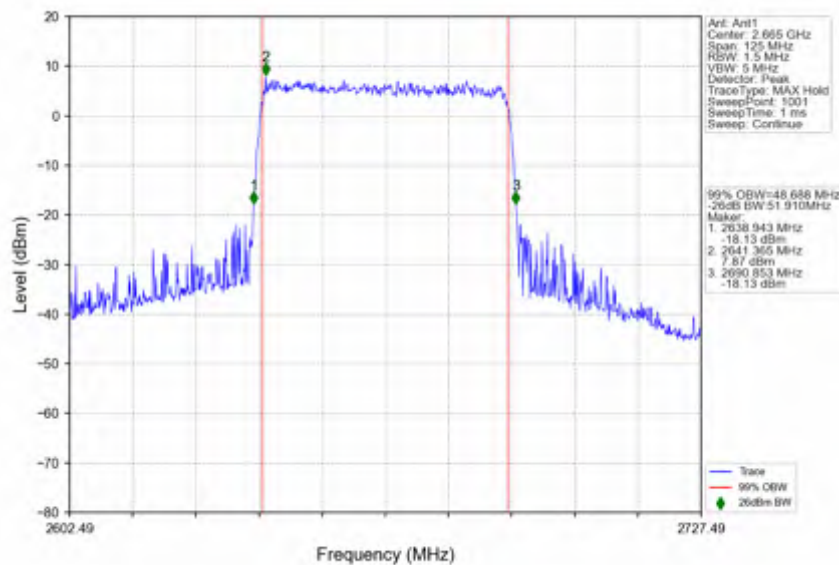
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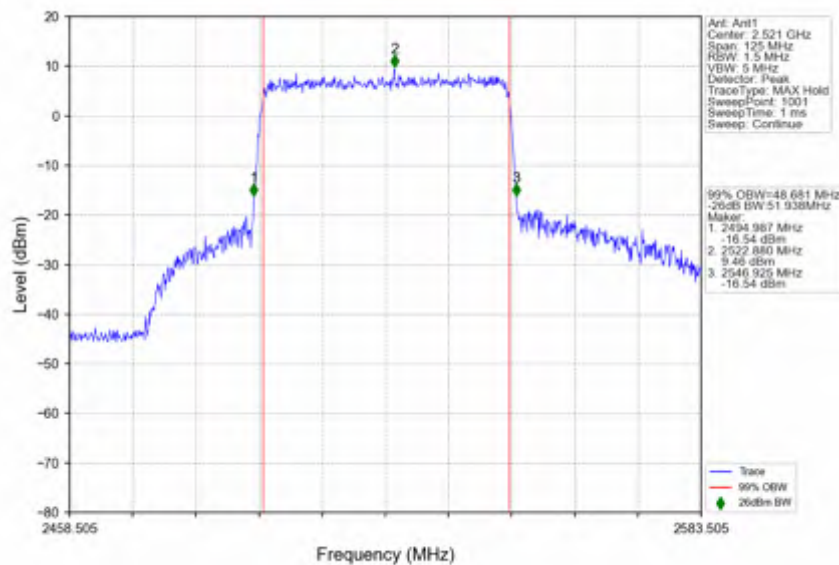
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n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2664.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2521.005MHz_Outer_Full



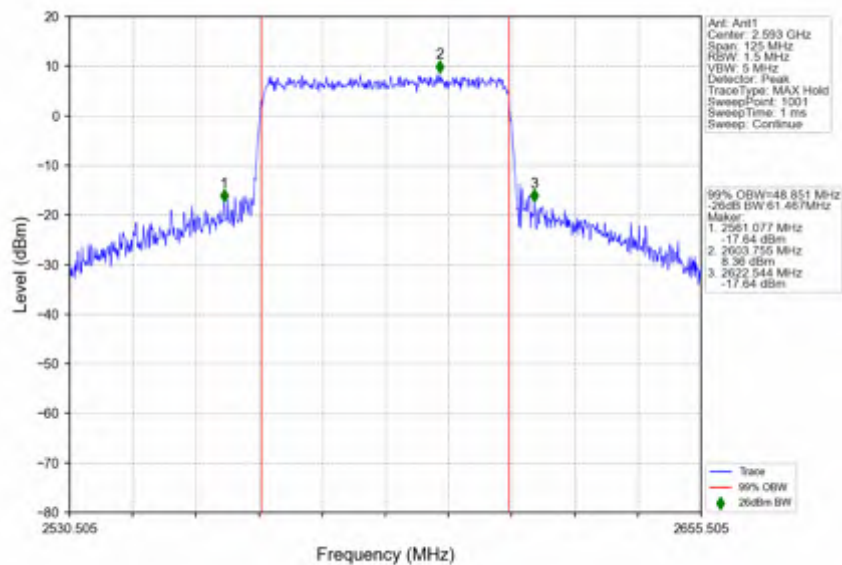
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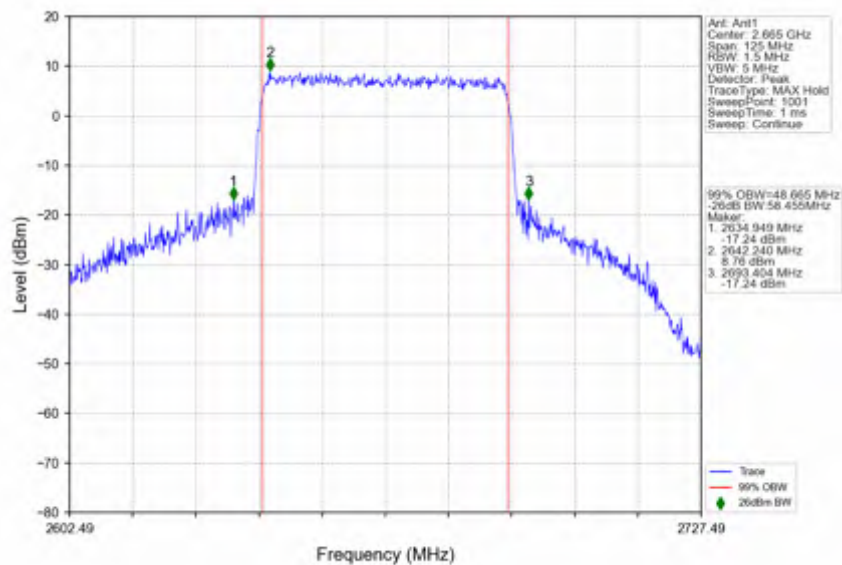
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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2664.99MHz_Outer_Full

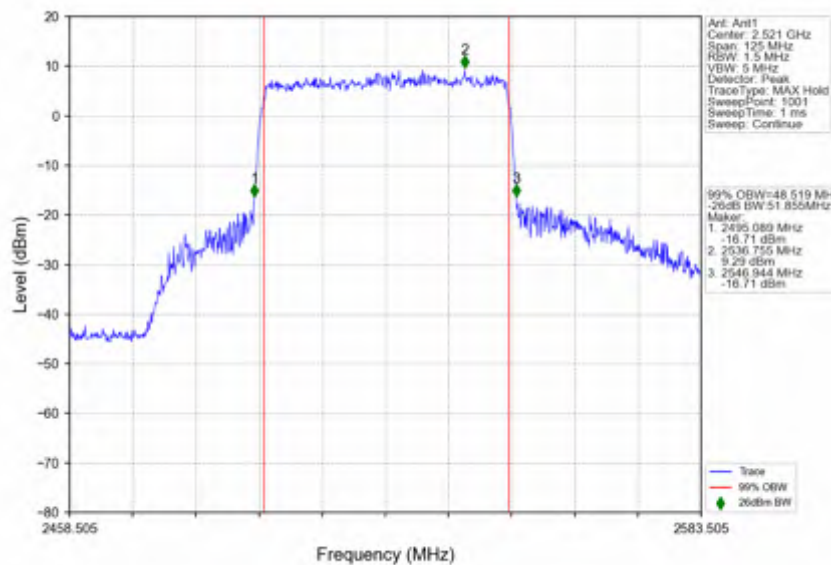


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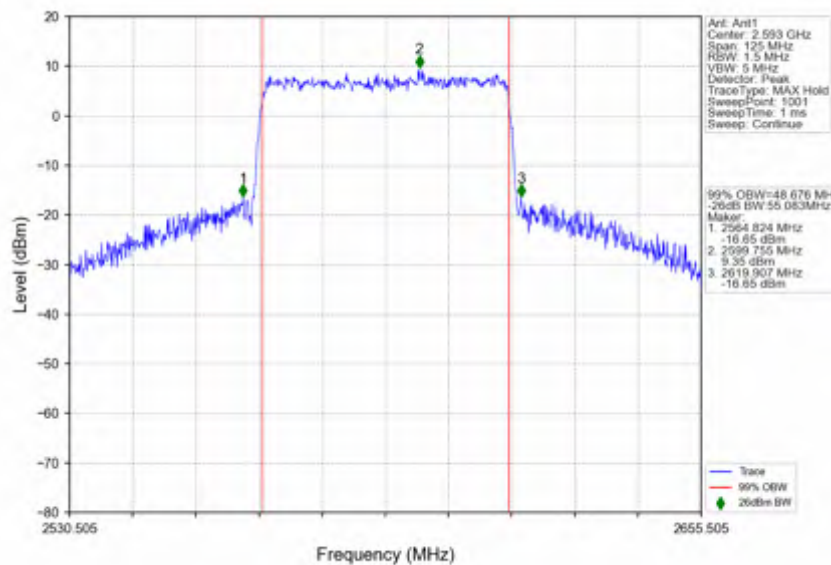
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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 2521.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 2593.005MHz_Outer_Full



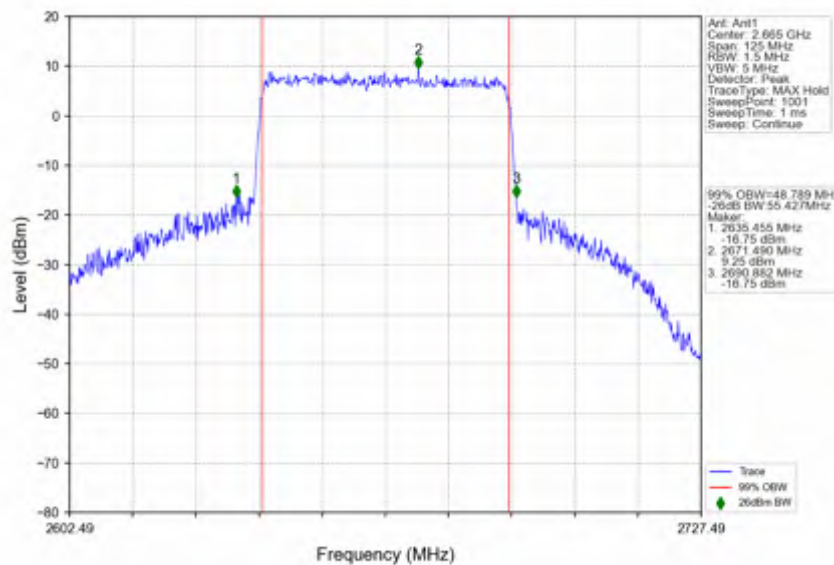
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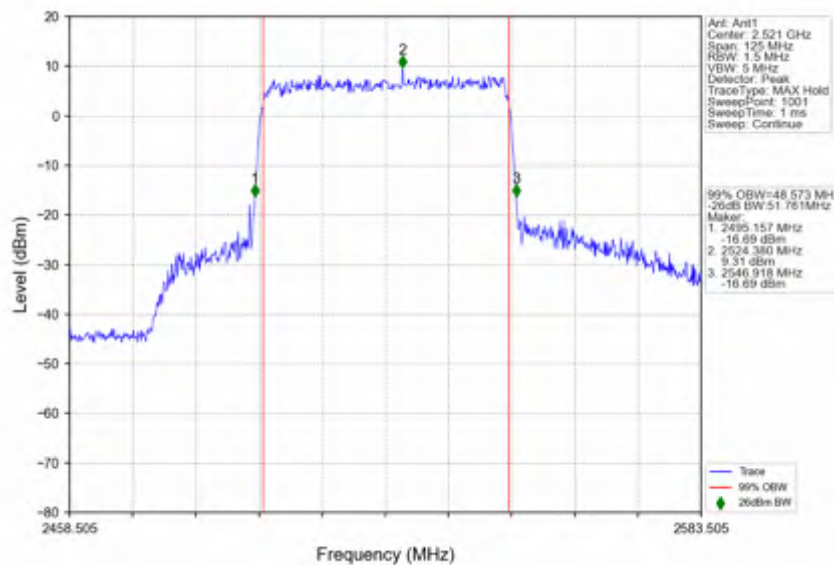
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n41	15kHz	SISO	NTNV	50MHz	CP-OFDM	16 QAM	2664.99MHz	Outer	Full
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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM_64_QAM_2521.005MHz_Outer_Full

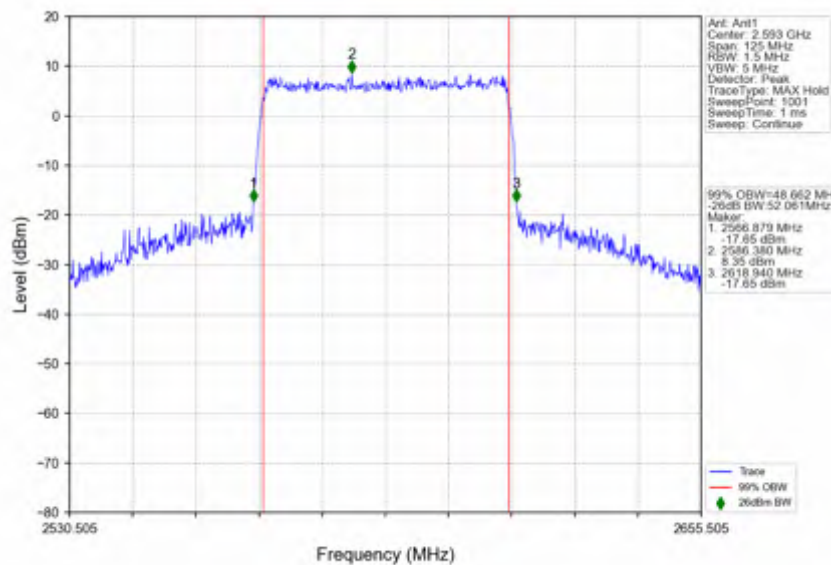


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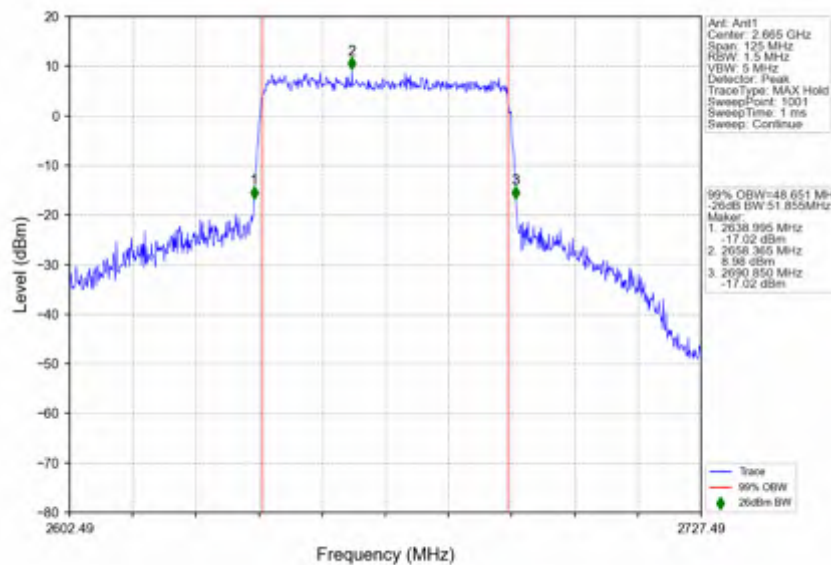
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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2664.99MHz_Outer_Full



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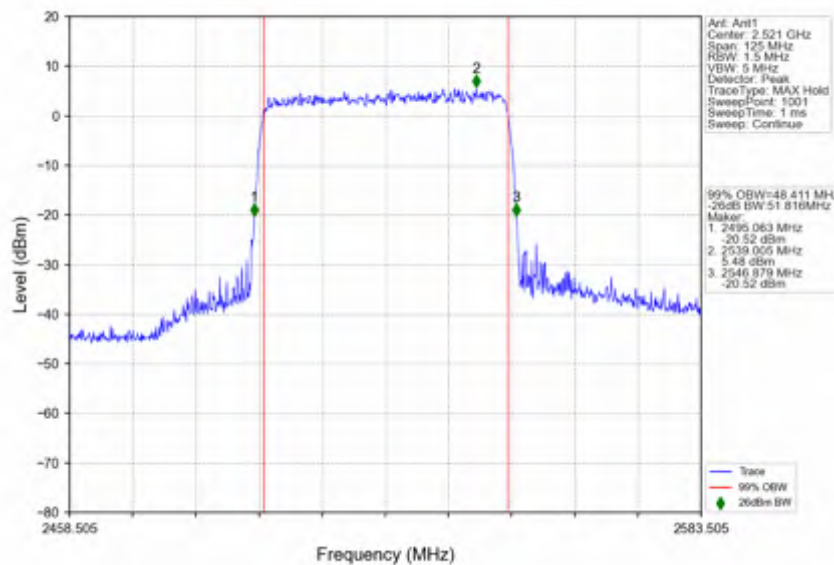
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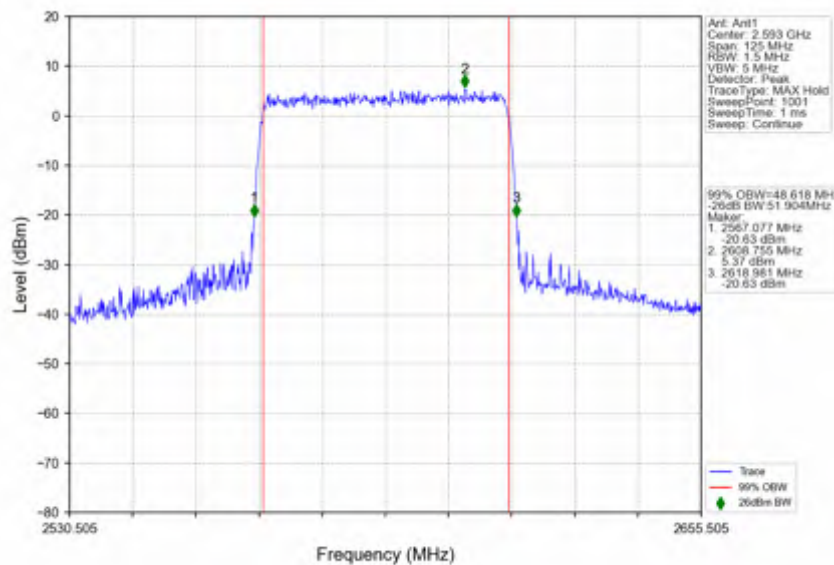
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n41	15kHz	SISO	NTNV	50MHz	CP-OFDM	256 QAM	2521.005MHz	Outer	Full
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n41	15kHz	SISO	NTNV	50MHz	CP-OFDM	256 QAM	2593.005MHz	Outer	Full
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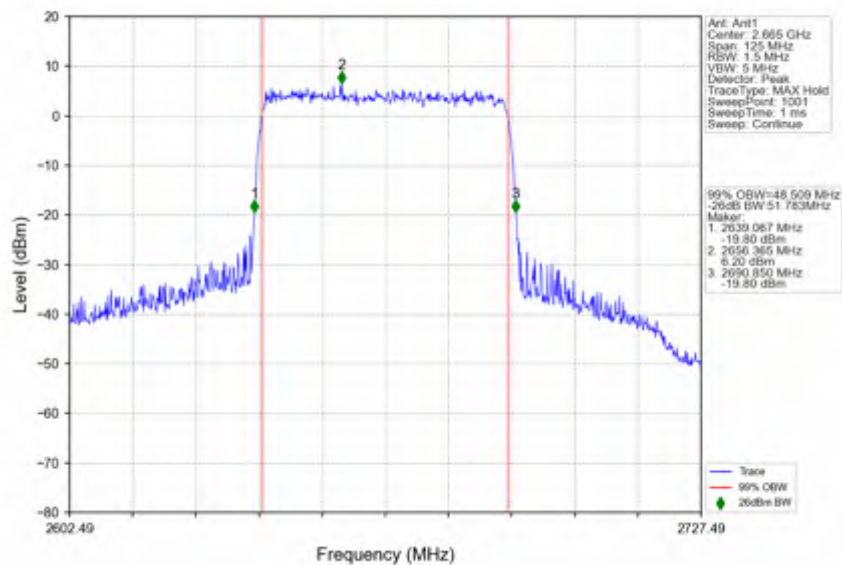


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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2664.99MHz_Outer_Full



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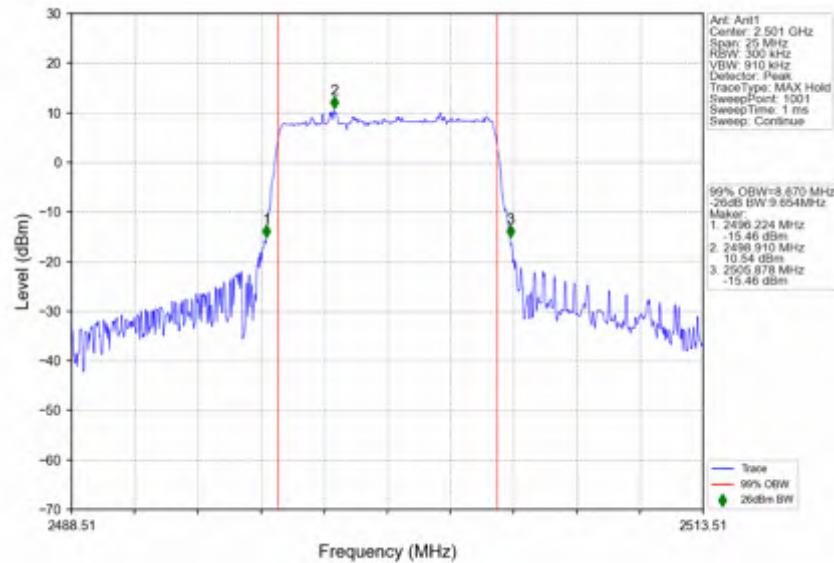
6.7 30k_SISO_10MHz_NTNV

6.7.1 Test Result

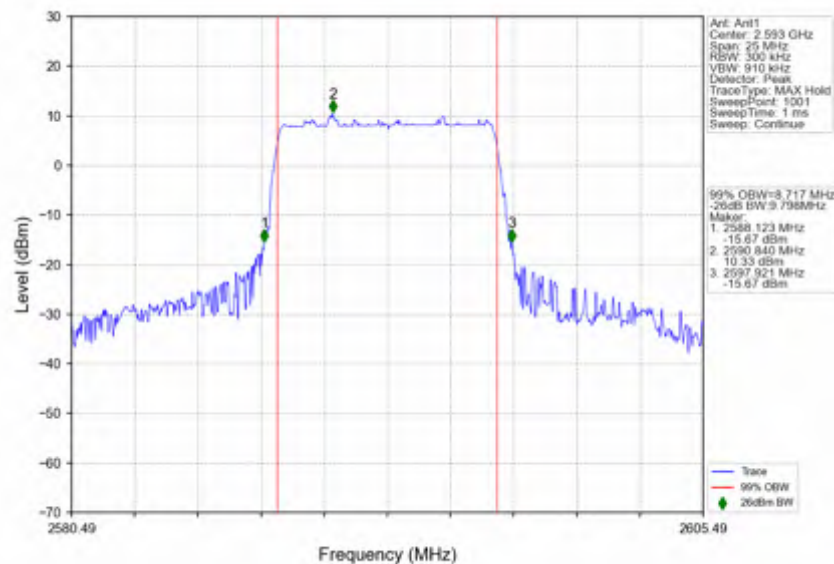
5G NR n41 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2501.01	Outer_Full	8.67	9.65	/	Pass
	2592.99	Outer_Full	8.72	9.80	/	Pass
	2685	Outer_Full	8.71	9.66	/	Pass
DFT-s-OFDM QPSK	2501.01	Outer_Full	8.70	9.83	/	Pass
	2592.99	Outer_Full	8.69	9.59	/	Pass
	2685	Outer_Full	8.67	9.66	/	Pass
DFT-s-OFDM 16 QAM	2501.01	Outer_Full	8.73	9.76	/	Pass
	2592.99	Outer_Full	8.72	9.75	/	Pass
	2685	Outer_Full	8.76	9.89	/	Pass
DFT-s-OFDM 64 QAM	2501.01	Outer_Full	8.70	9.87	/	Pass
	2592.99	Outer_Full	8.69	9.62	/	Pass
	2685	Outer_Full	8.70	9.72	/	Pass
DFT-s-OFDM 256 QAM	2501.01	Outer_Full	8.70	9.91	/	Pass
	2592.99	Outer_Full	8.71	9.95	/	Pass
	2685	Outer_Full	8.71	10.08	/	Pass
CP-OFDM QPSK	2501.01	Outer_Full	8.66	10.03	/	Pass
	2592.99	Outer_Full	8.70	9.83	/	Pass
	2685	Outer_Full	8.69	9.84	/	Pass
CP-OFDM 16 QAM	2501.01	Outer_Full	8.69	9.73	/	Pass
	2592.99	Outer_Full	8.69	9.69	/	Pass
	2685	Outer_Full	8.69	9.85	/	Pass
CP-OFDM 64 QAM	2501.01	Outer_Full	8.70	9.81	/	Pass
	2592.99	Outer_Full	8.74	9.88	/	Pass
	2685	Outer_Full	8.72	9.82	/	Pass
CP-OFDM 256 QAM	2501.01	Outer_Full	8.78	9.78	/	Pass
	2592.99	Outer_Full	8.67	9.67	/	Pass
	2685	Outer_Full	8.73	10.10	/	Pass

6.7.2 Test Graph

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Outer_Full



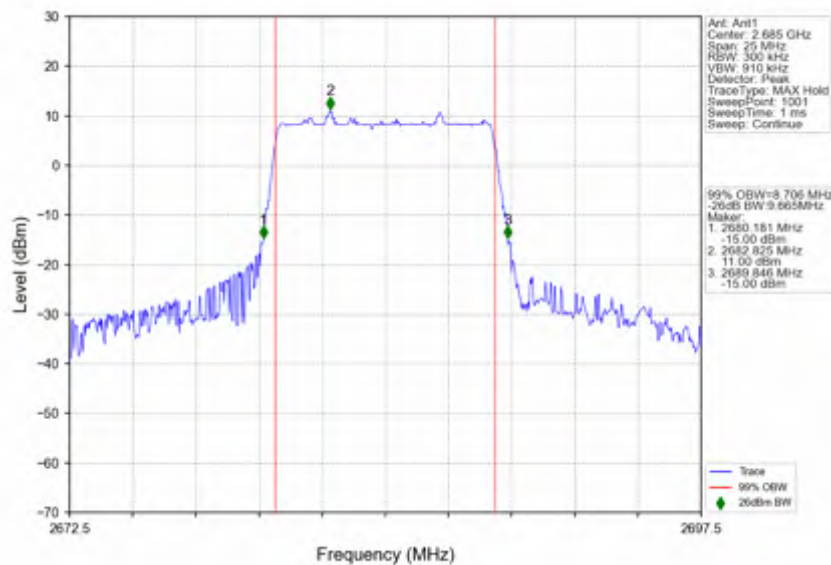
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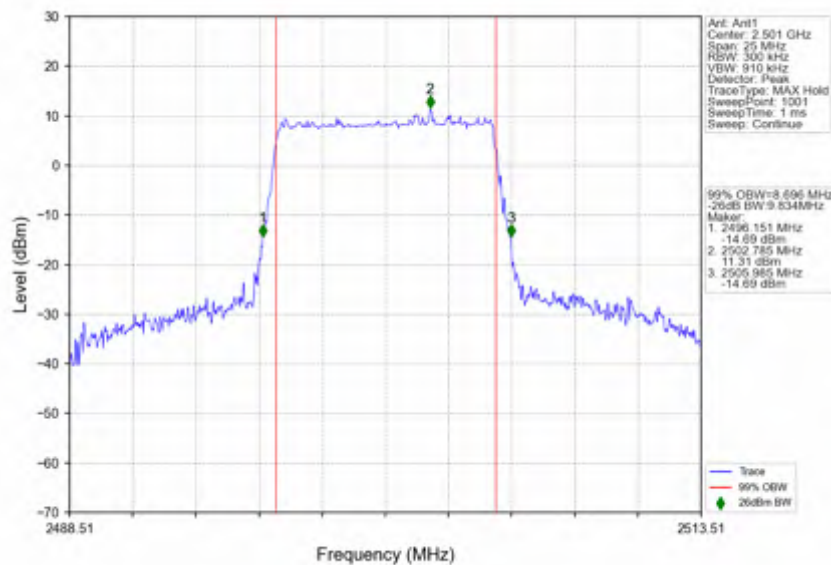
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Outer_Full



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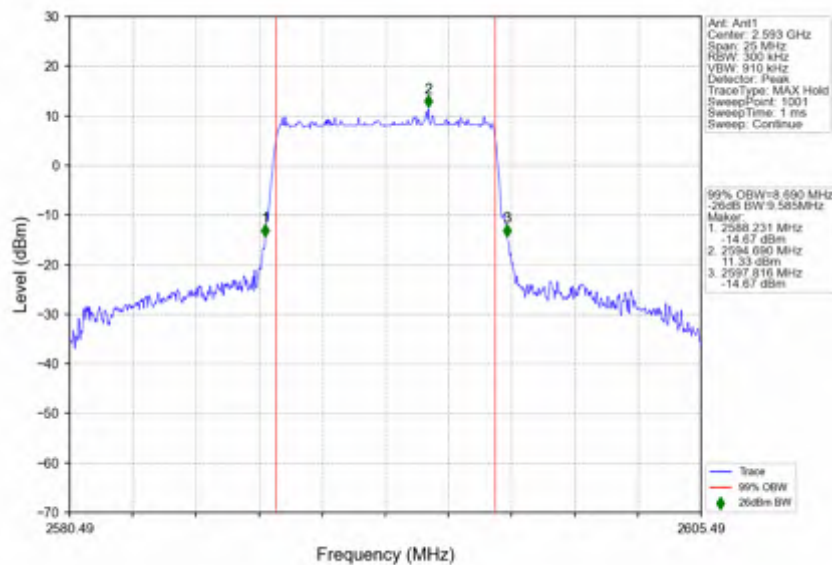
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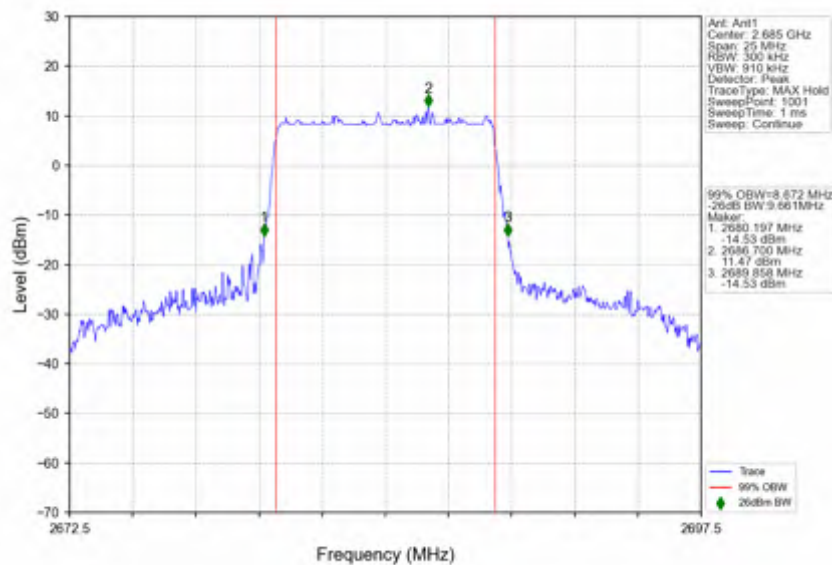
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Outer_Full



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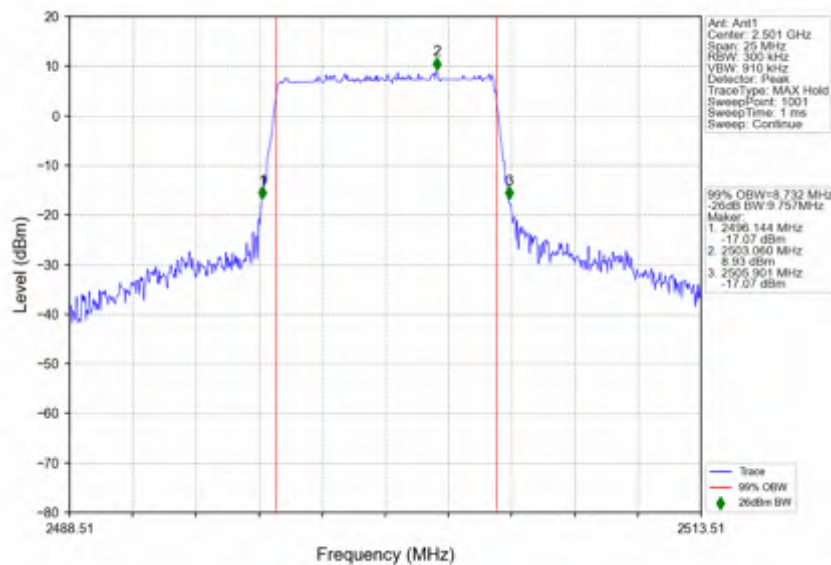
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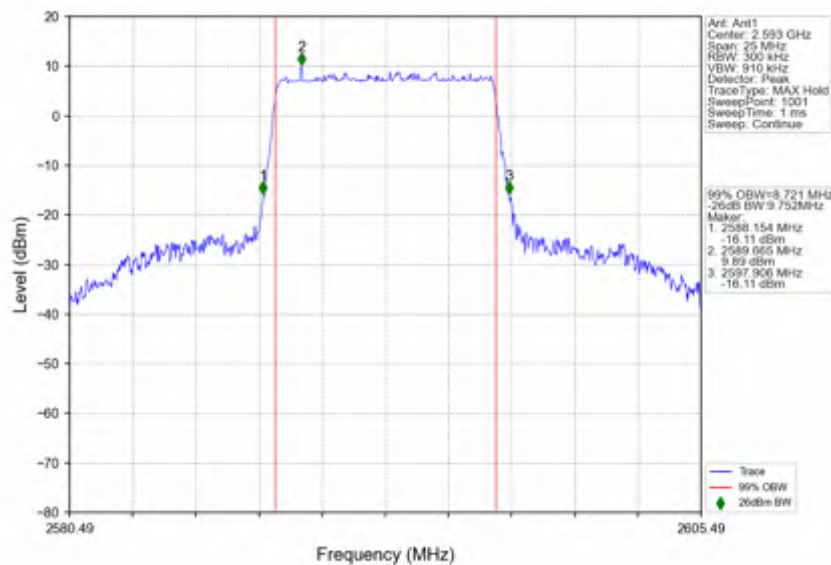
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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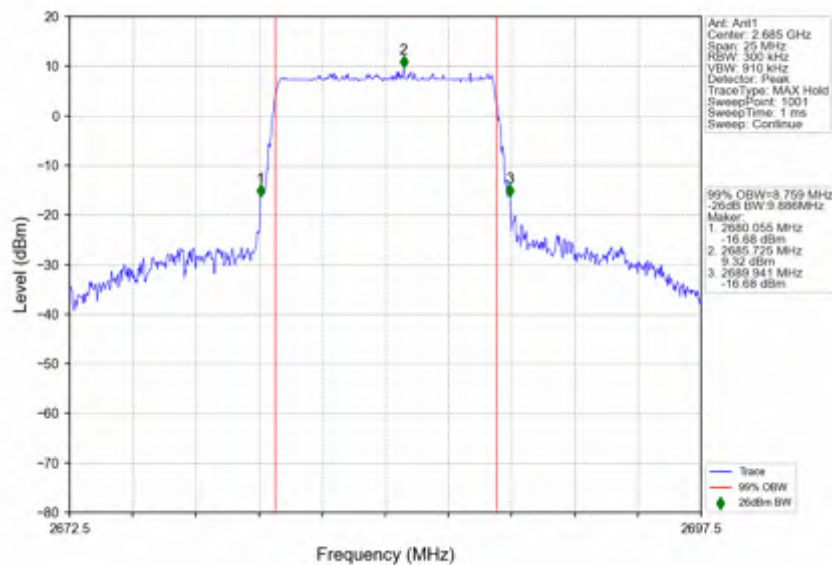
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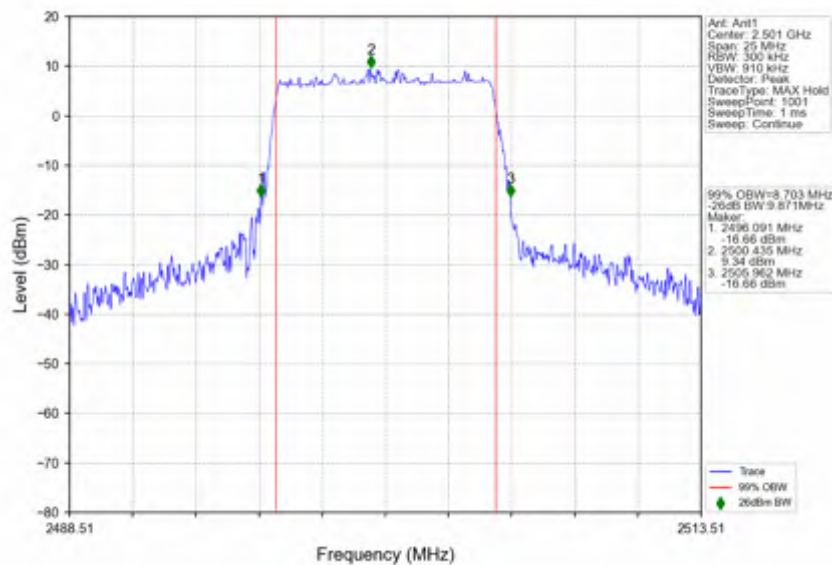
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n41	30kHz	SISO	NTNV	10MHz	DFT-s-OFDM	16 QAM	2685MHz	Outer	Full
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2501.01MHz_Outer_Full

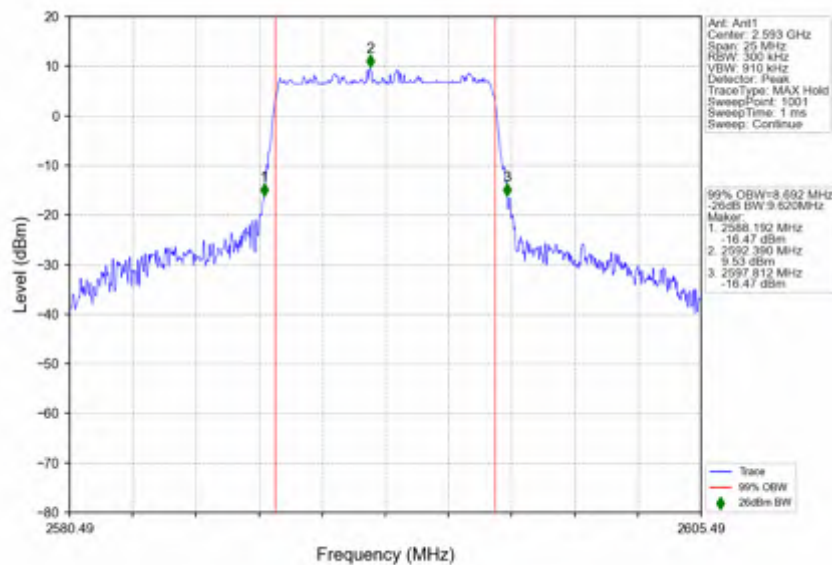


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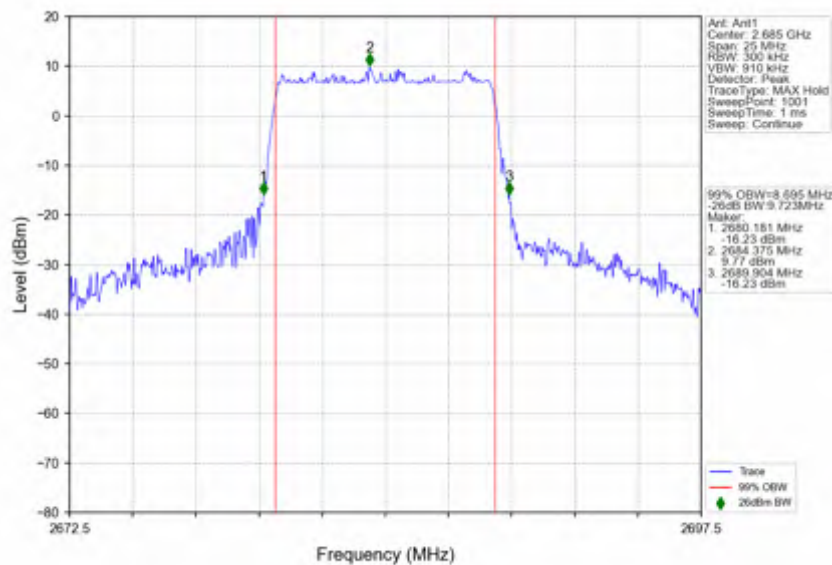
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2685MHz_Outer_Full



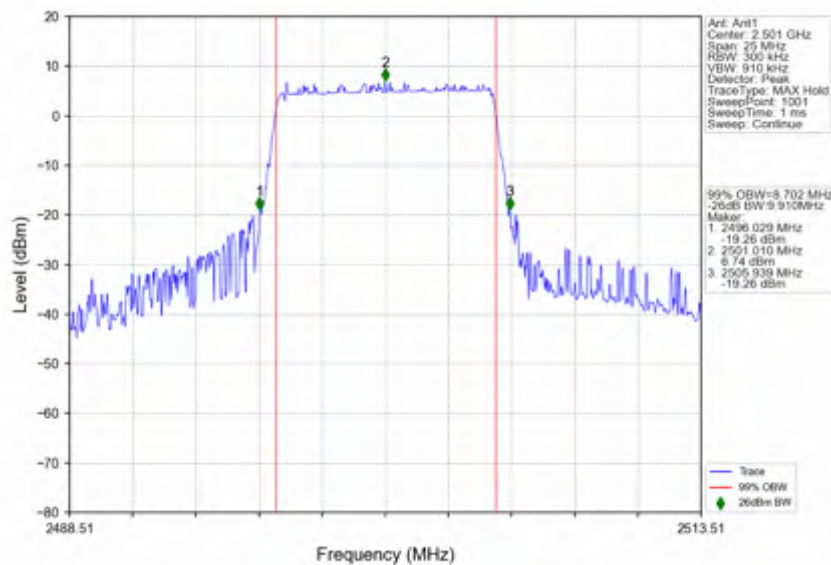
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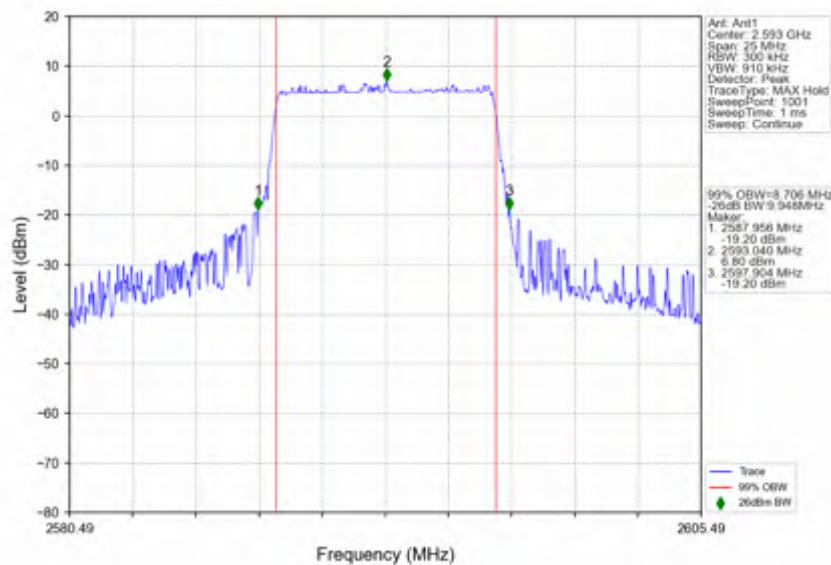
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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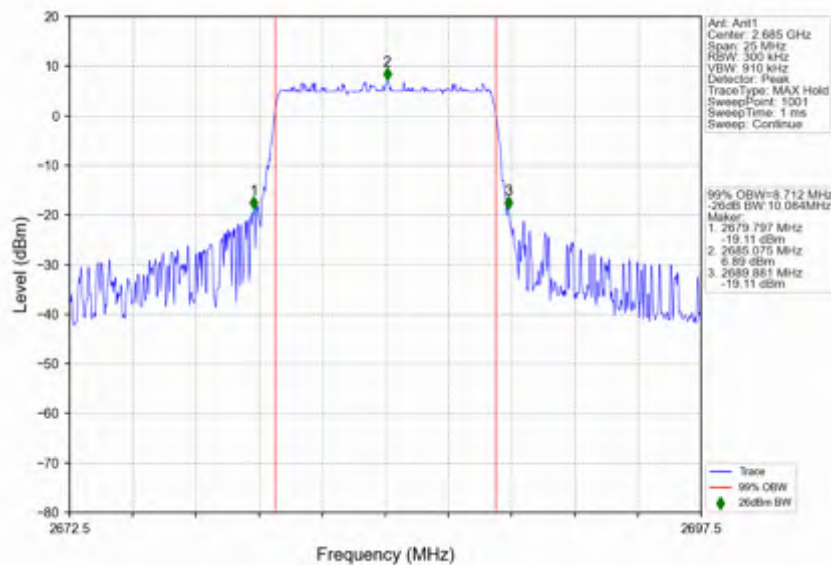
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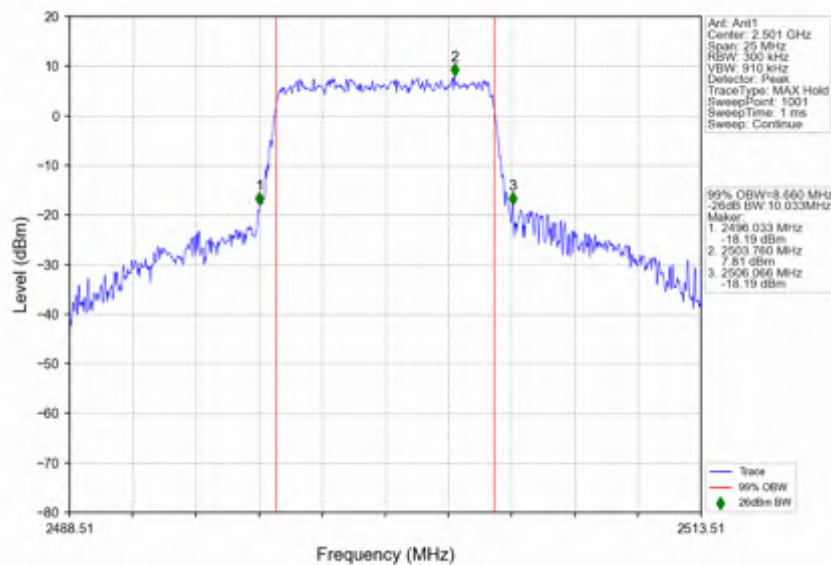
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2501.01MHz_Outer_Full

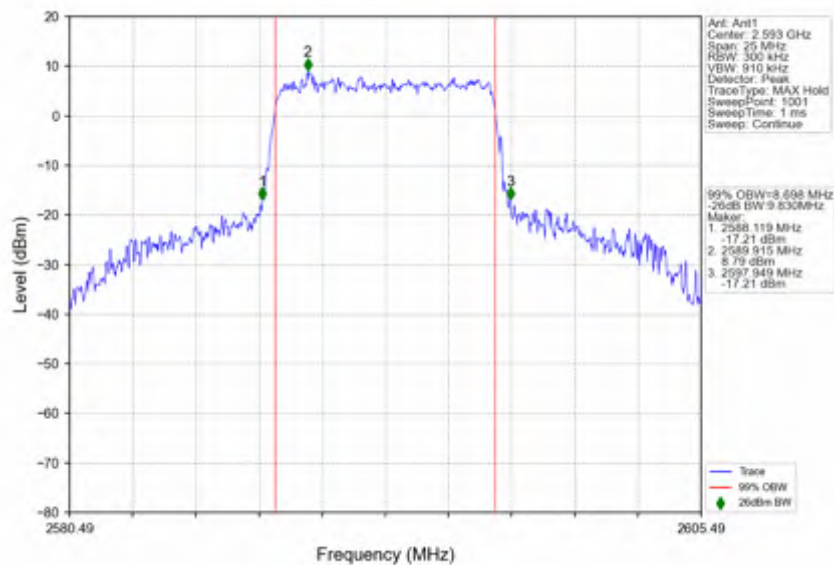


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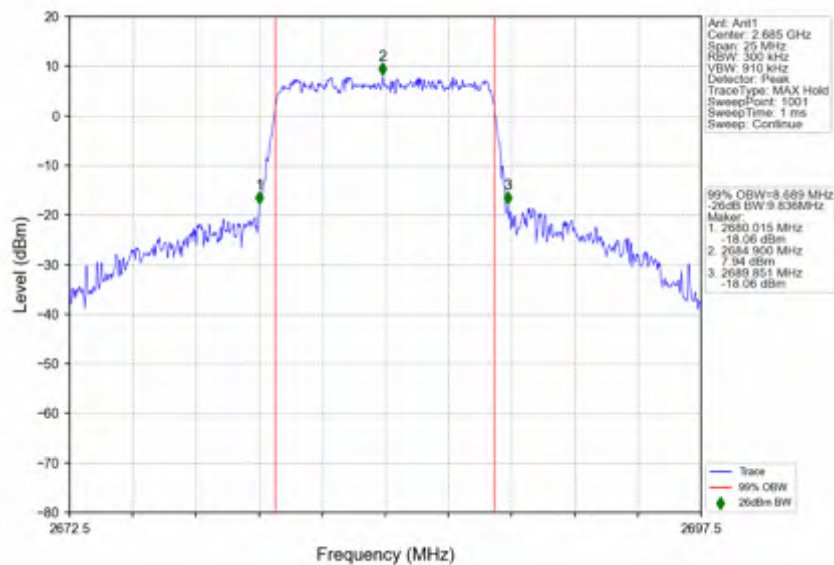
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2685MHz_Outer_Full



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