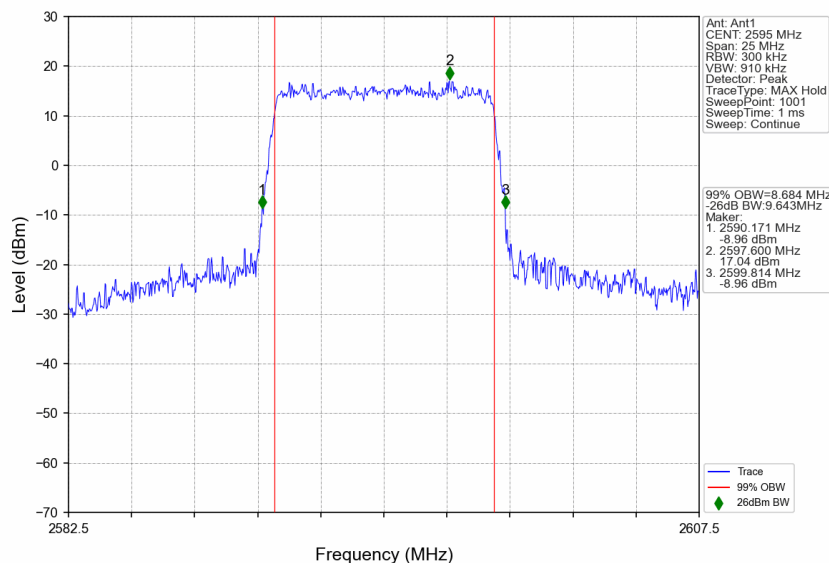


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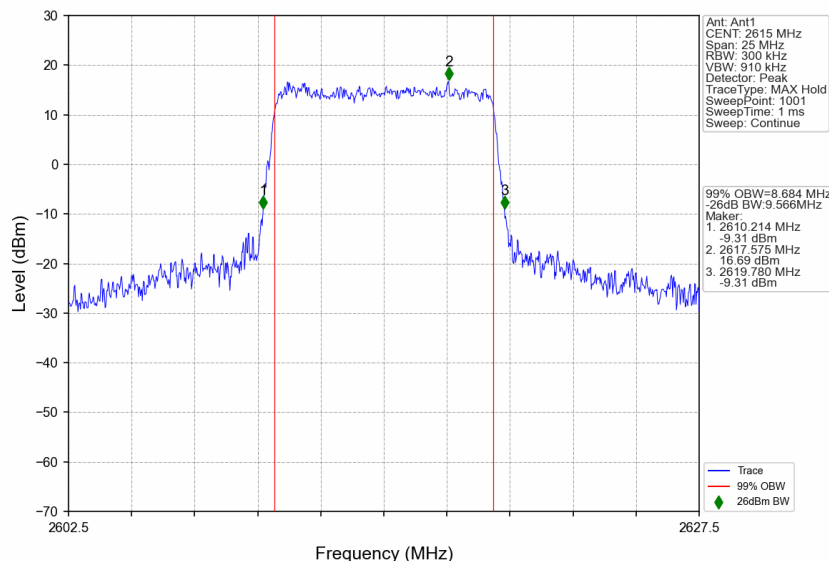
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2615MHz_Outer_Full



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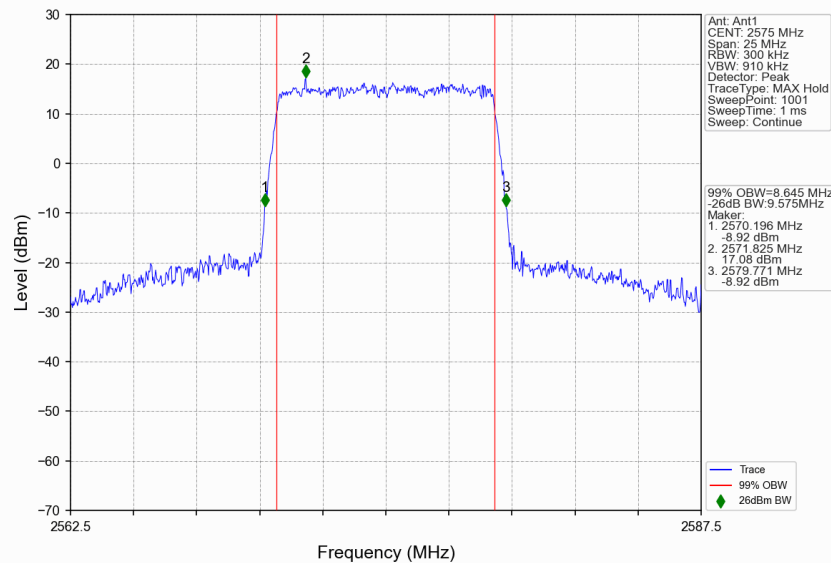
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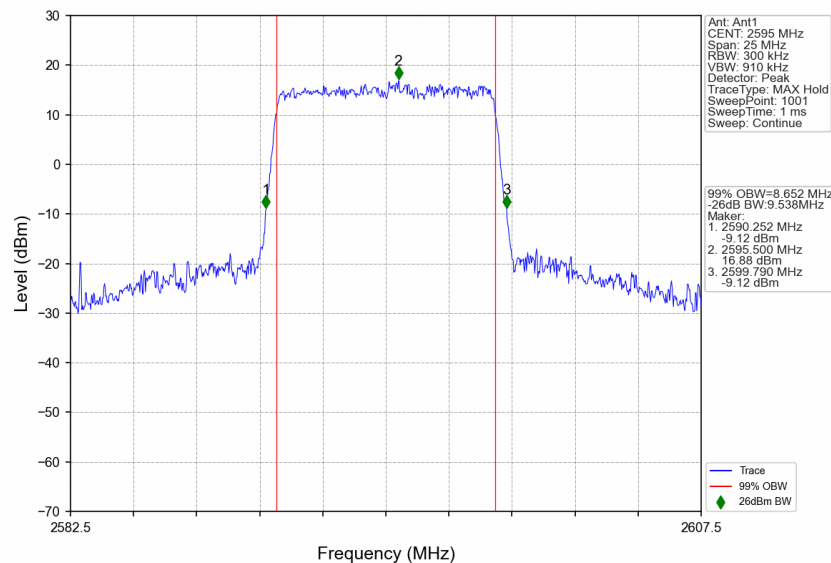
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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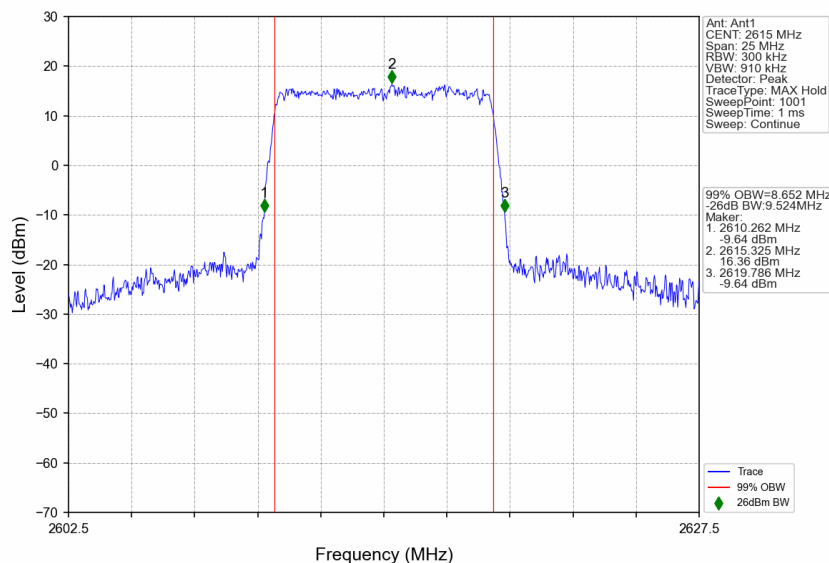
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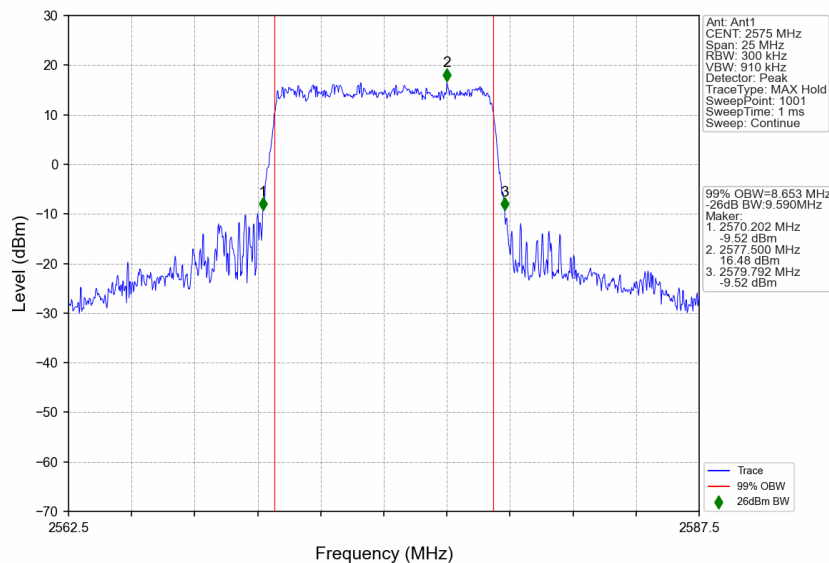
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2575MHz_Outer_Full



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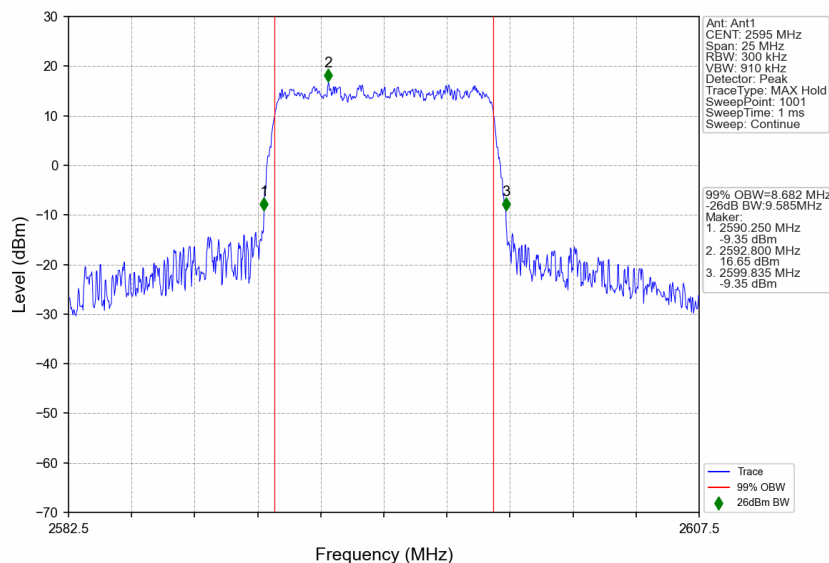
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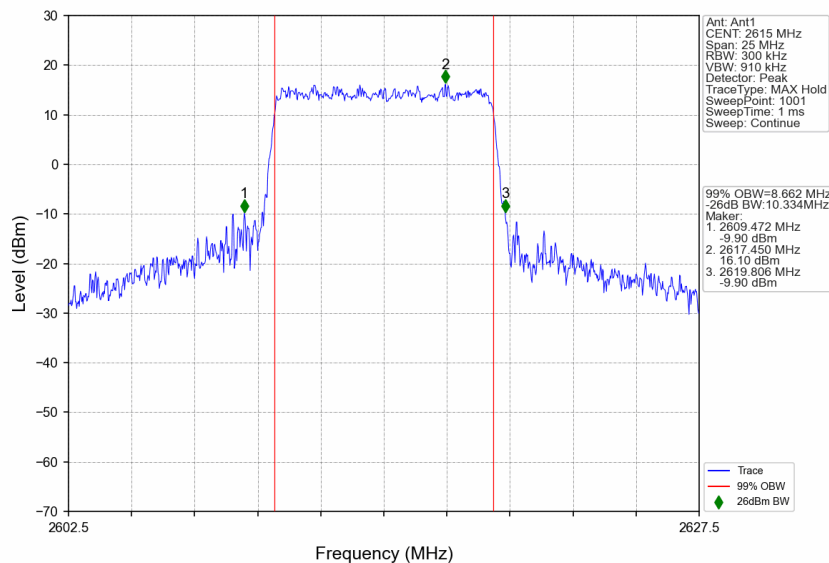
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2615MHz_Outer_Full



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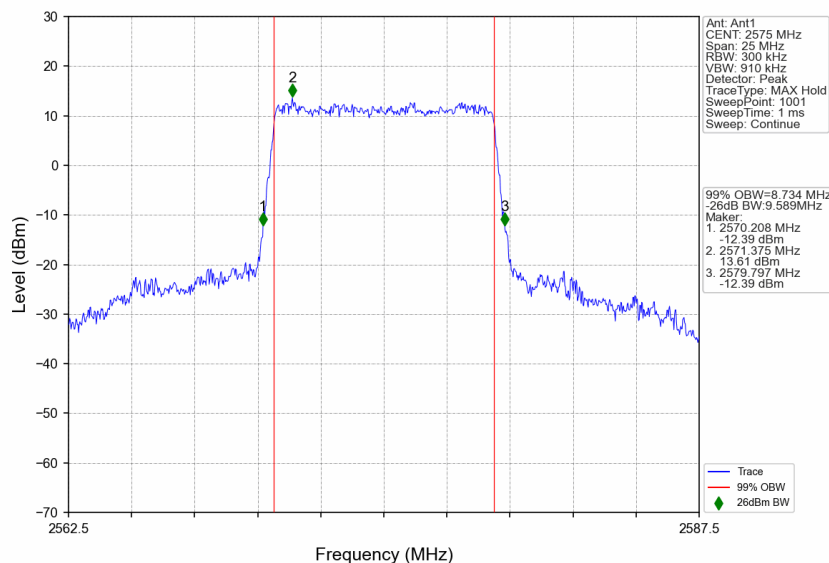
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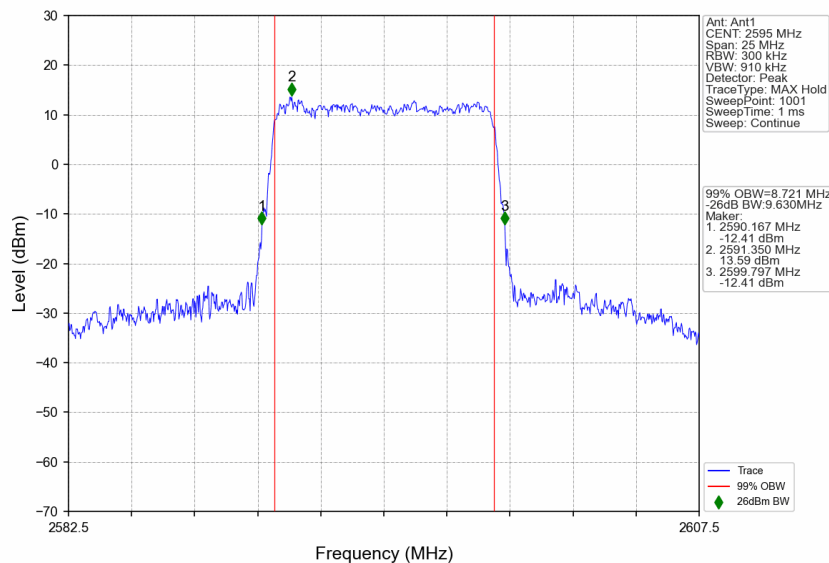
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_256 QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_256 QAM_2595MHz_Outer_Full



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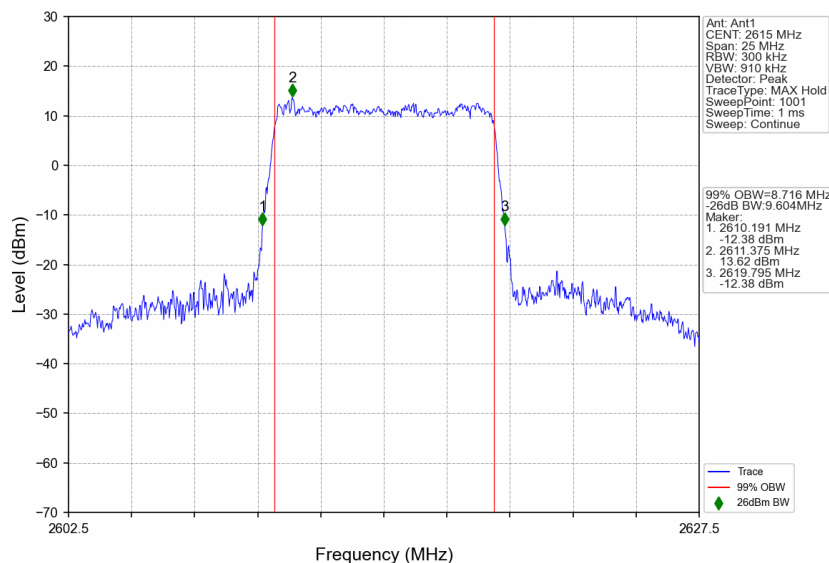
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n38_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2615MHz_Outer_Full



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4.9 30k_SISO_15MHz_NTNV

4.9.1 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	13.07	14.14	/	Pass
	2595	Outer Full	13.07	14.15	/	Pass
	2612.5	Outer Full	13.06	14.14	/	Pass
DFT-s-OFDM QPSK	2577.5	Outer Full	13.02	14.22	/	Pass
	2595	Outer Full	13.04	14.16	/	Pass
	2612.5	Outer Full	13.05	14.06	/	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer Full	13.03	14.22	/	Pass
	2595	Outer Full	13.03	14.08	/	Pass
	2612.5	Outer Full	13.04	14.17	/	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer Full	13.09	14.16	/	Pass
	2595	Outer Full	13.11	14.19	/	Pass
	2612.5	Outer Full	13.09	14.19	/	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer Full	13.01	14.11	/	Pass
	2595	Outer Full	13.00	14.13	/	Pass
	2612.5	Outer Full	13.02	14.14	/	Pass
CP-OFDM QPSK	2577.5	Outer Full	13.70	14.85	/	Pass
	2595	Outer Full	13.73	14.92	/	Pass
	2612.5	Outer Full	13.71	14.84	/	Pass
CP-OFDM 16 QAM	2577.5	Outer Full	13.71	14.96	/	Pass
	2595	Outer Full	13.70	14.88	/	Pass
	2612.5	Outer Full	13.71	14.99	/	Pass
CP-OFDM 64 QAM	2577.5	Outer Full	13.78	14.88	/	Pass
	2595	Outer Full	13.81	14.99	/	Pass
	2612.5	Outer Full	13.81	14.96	/	Pass
CP-OFDM 256 QAM	2577.5	Outer Full	13.73	14.95	/	Pass
	2595	Outer Full	13.73	14.89	/	Pass
	2612.5	Outer Full	13.71	14.86	/	Pass



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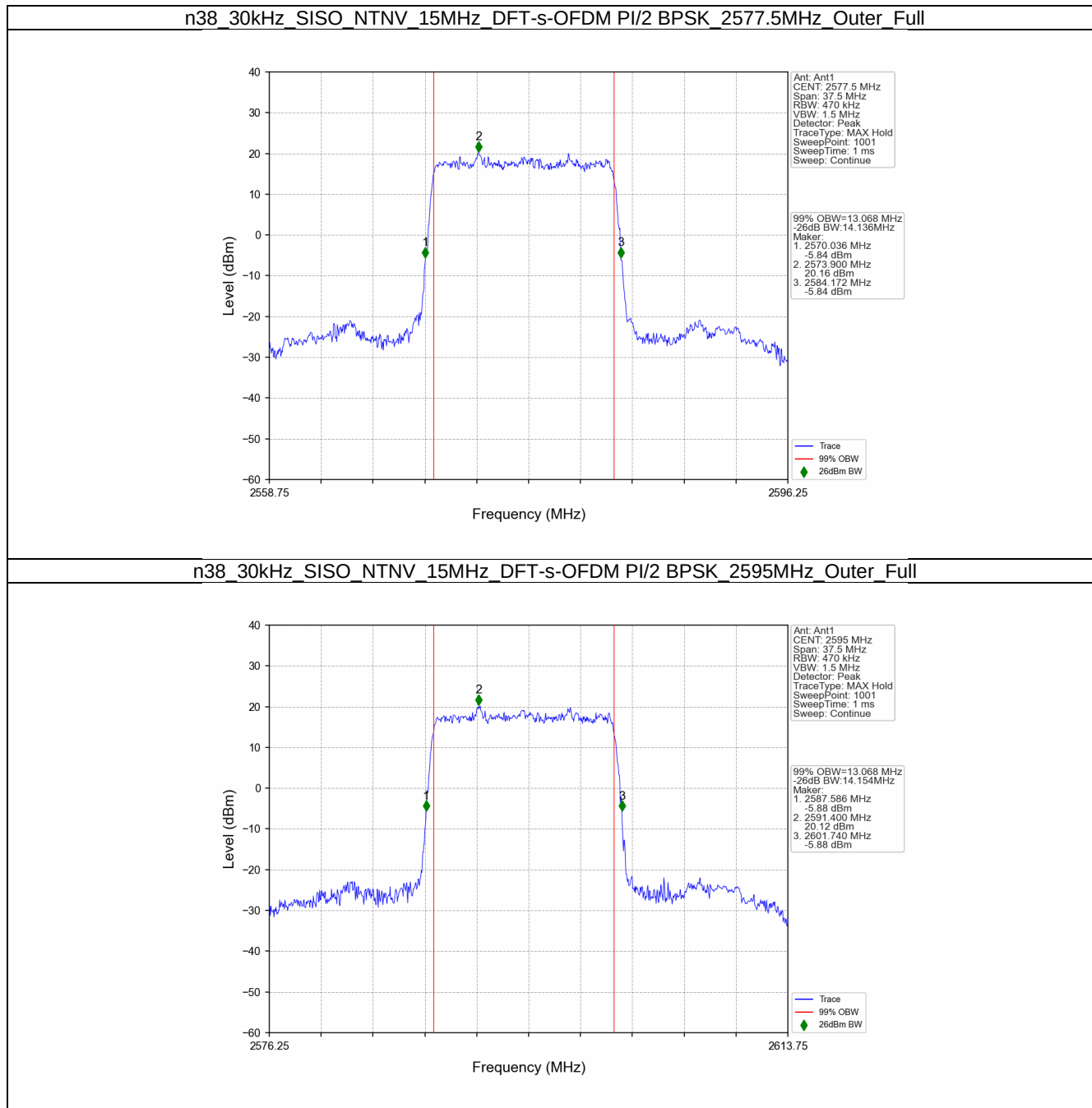
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4.9.2 Test Graph



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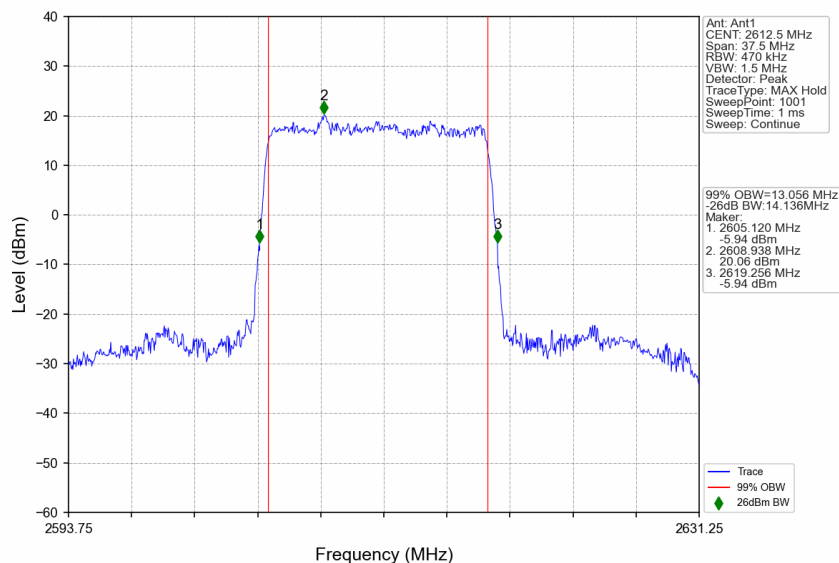
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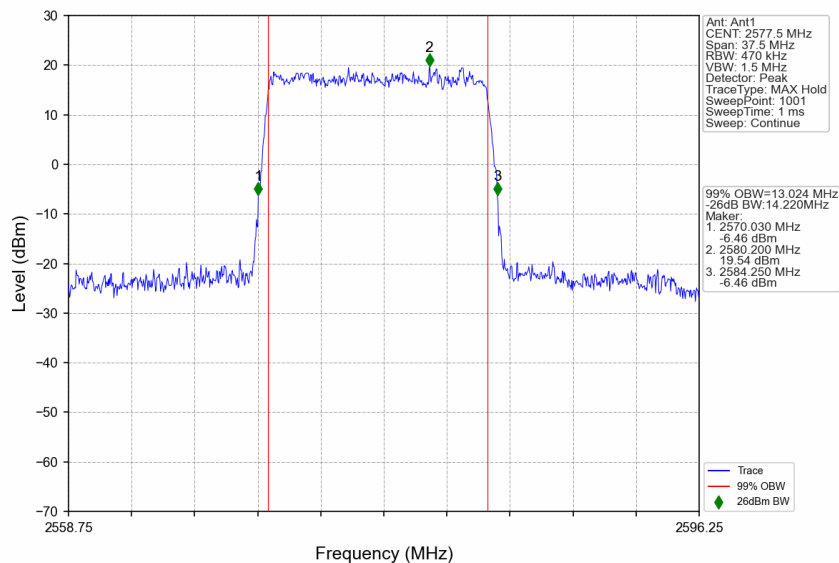
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2577.5MHz_Outer_Full



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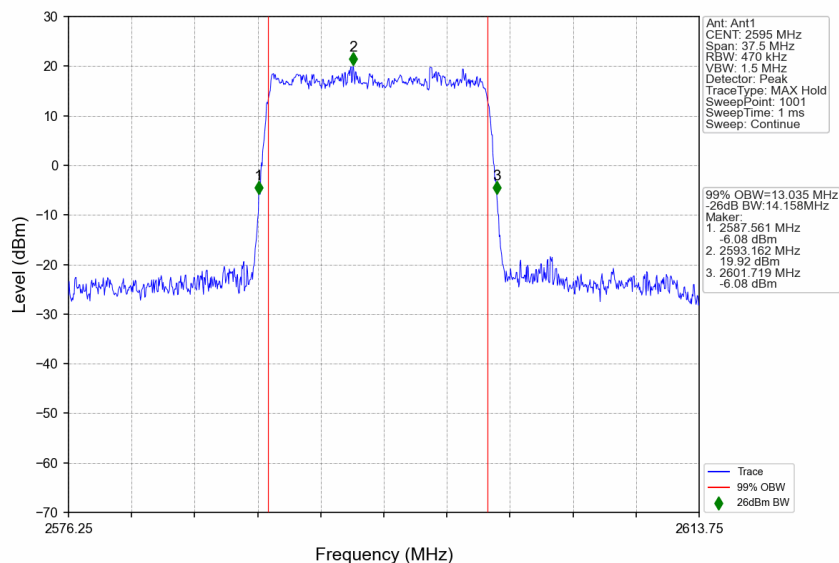
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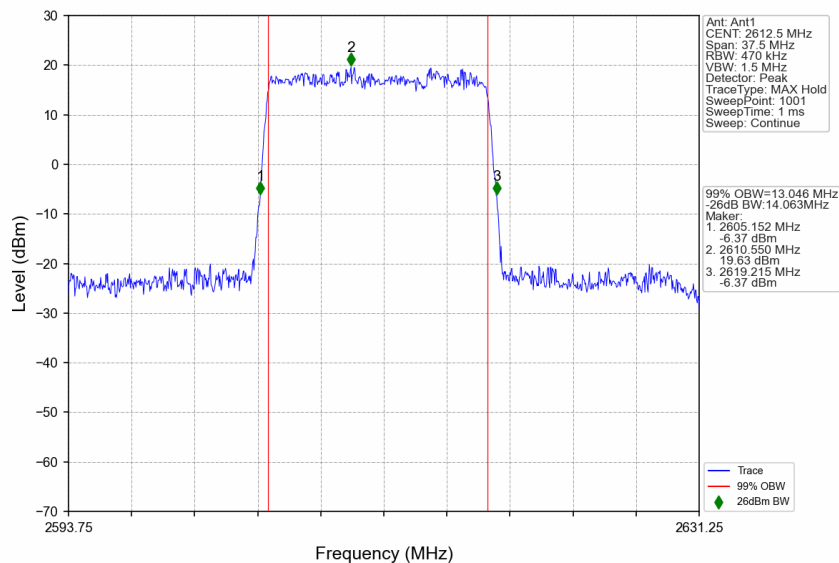
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2612.5MHz_Outer_Full



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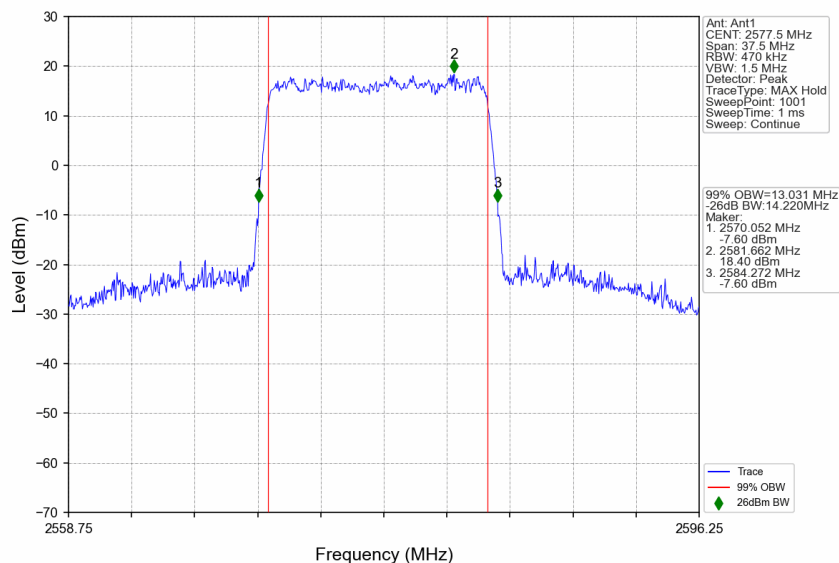
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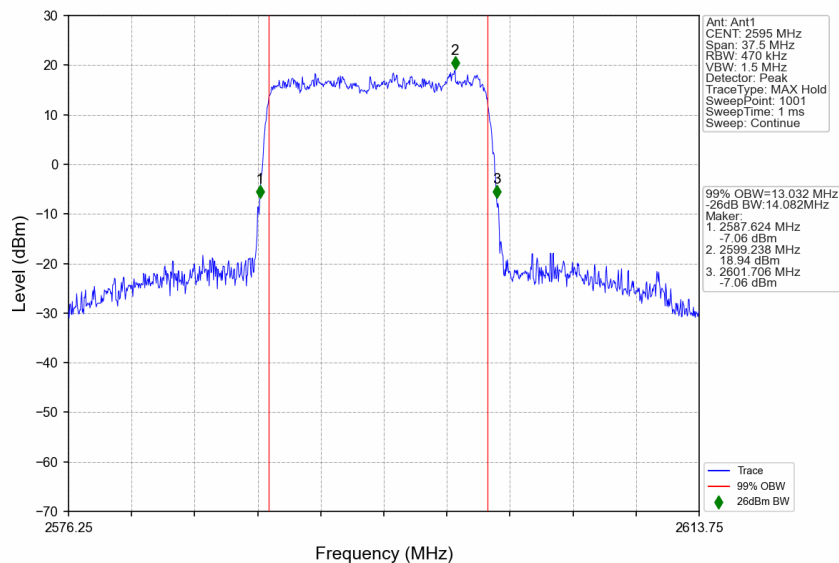
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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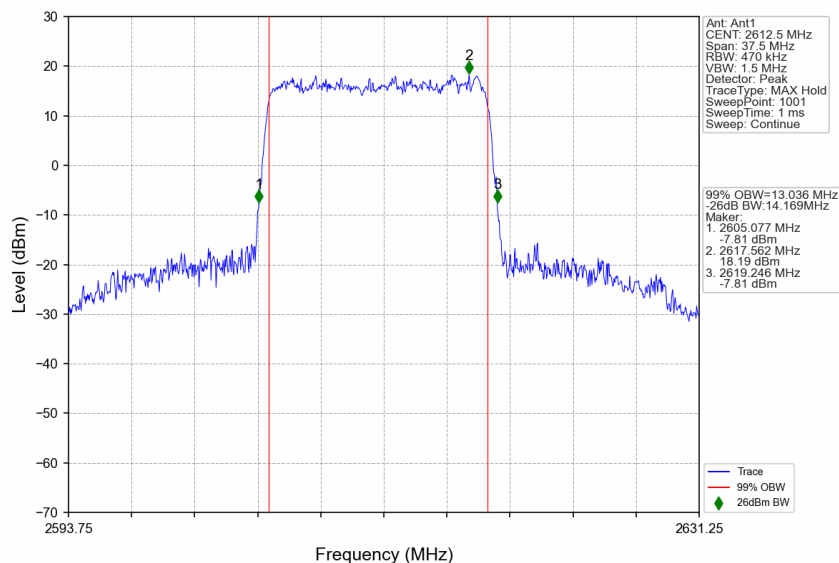
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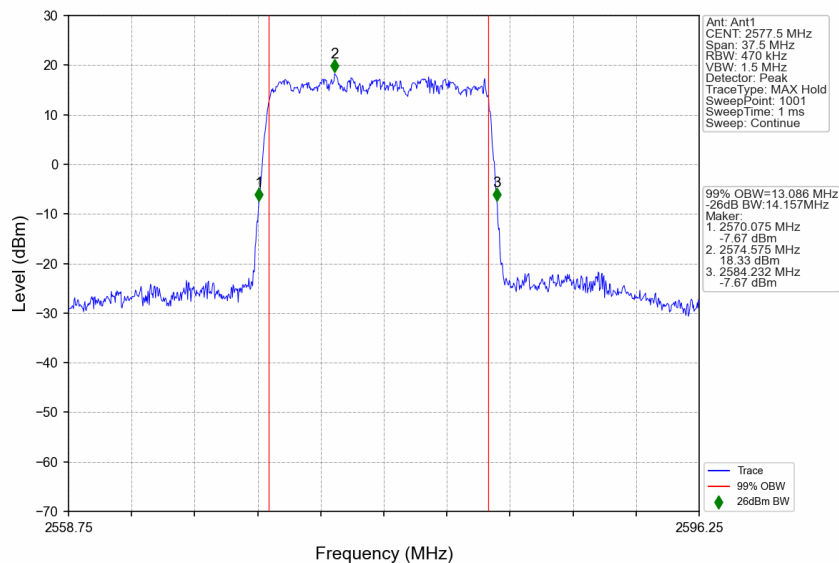
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2577.5MHz_Outer_Full



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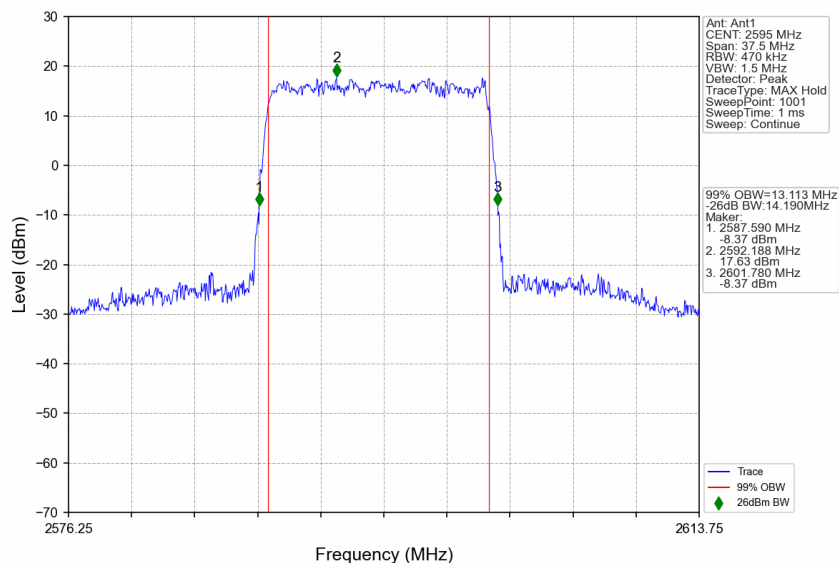
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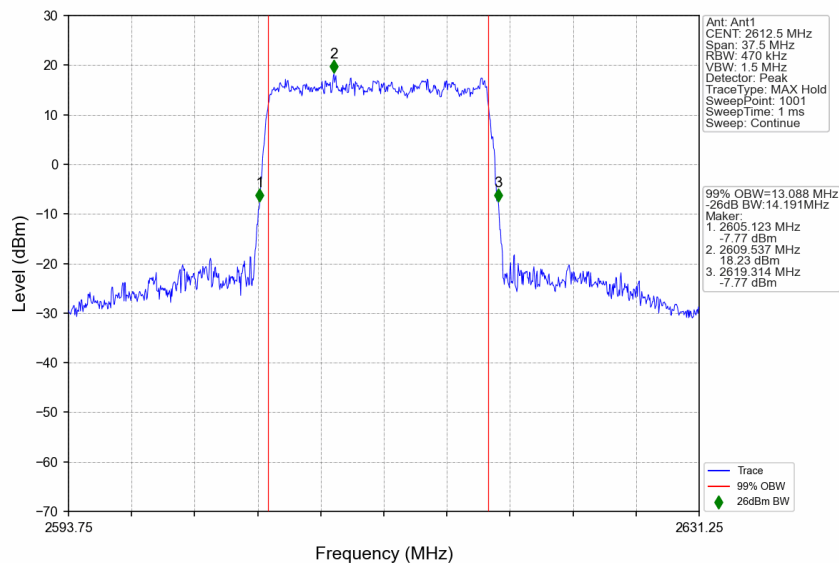
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2612.5MHz_Outer_Full



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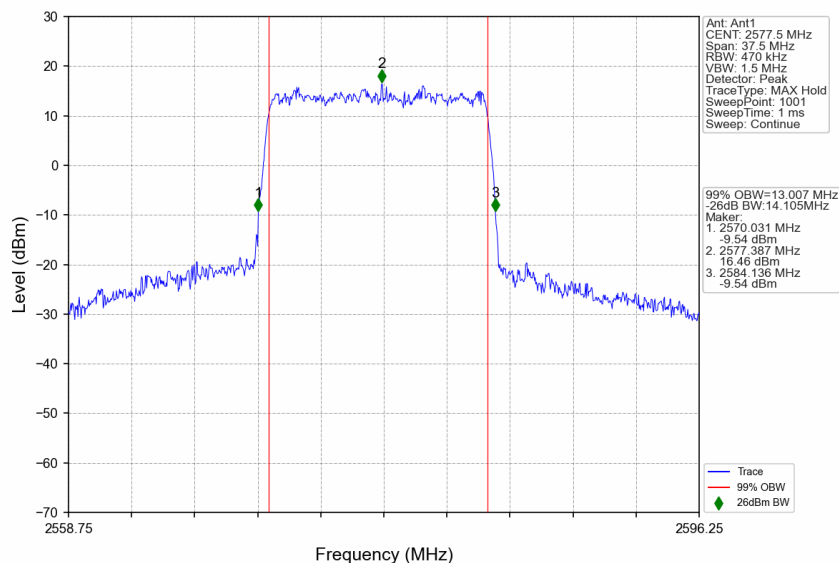
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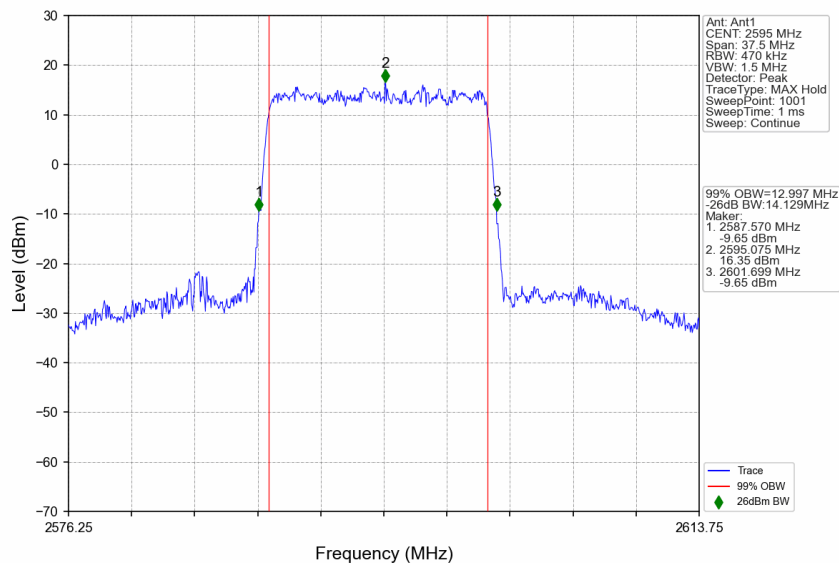
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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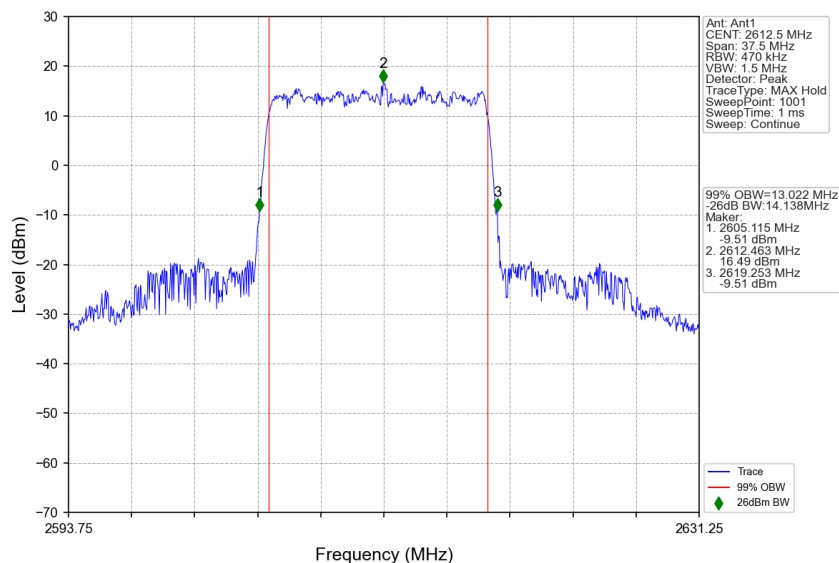
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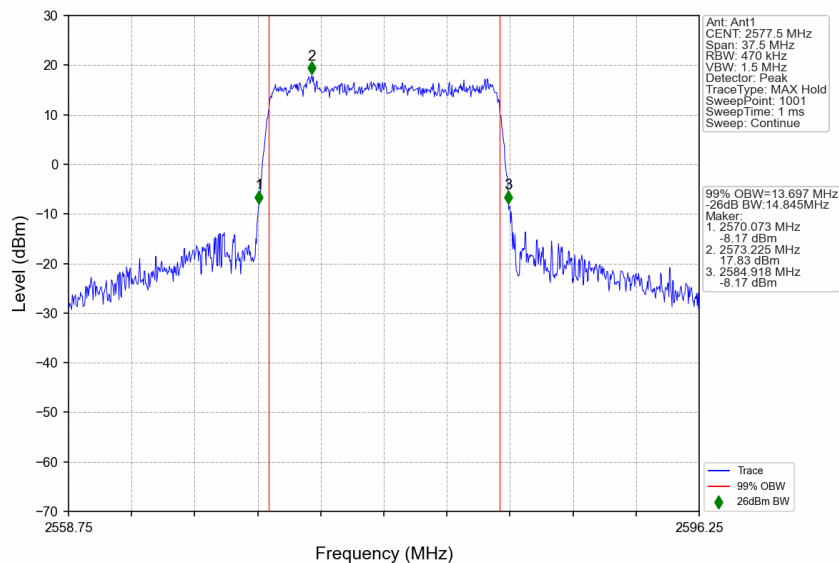
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n38_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2577.5MHz_Outer_Full



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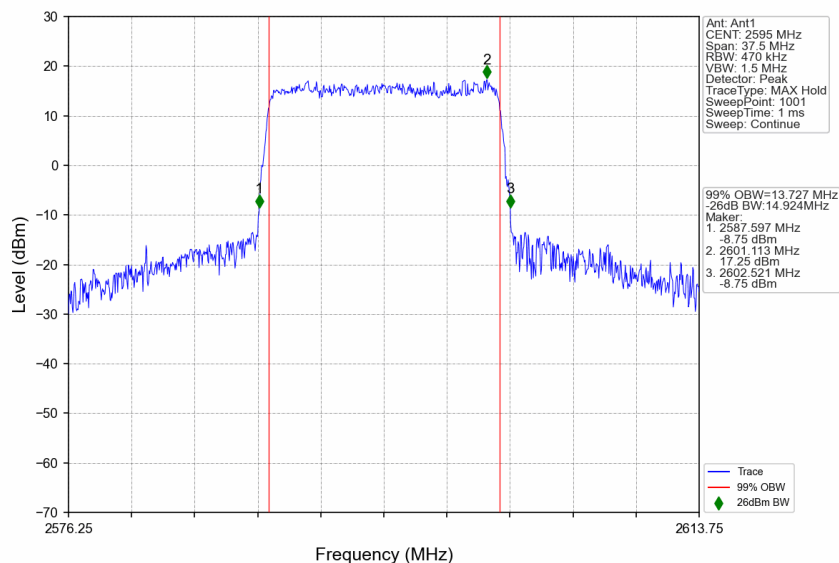
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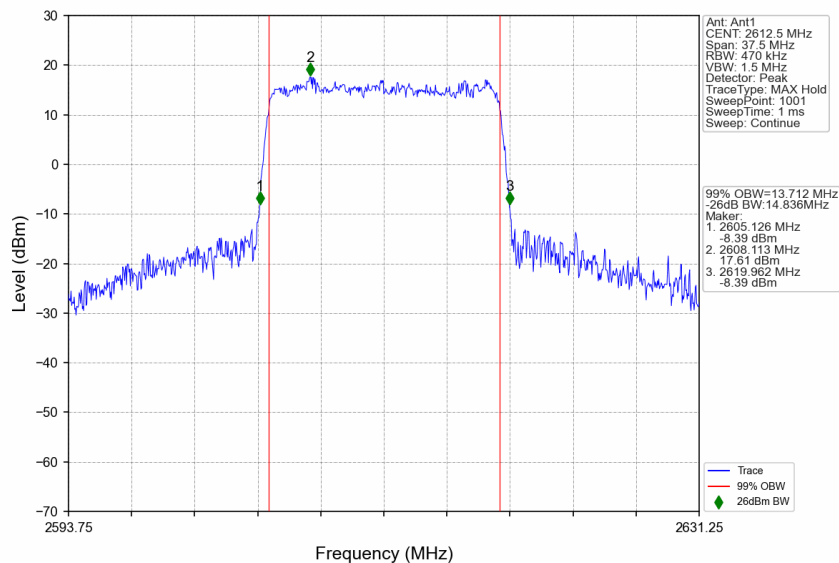
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2612.5MHz_Outer_Full



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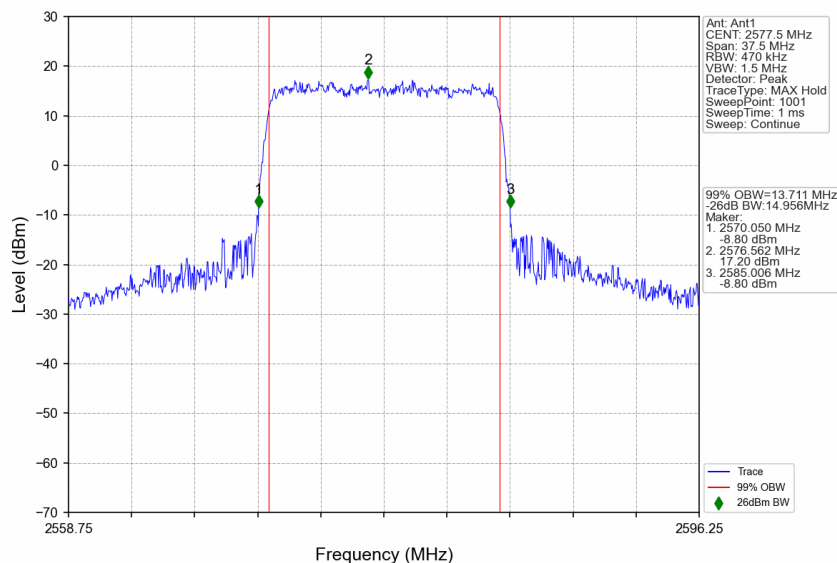
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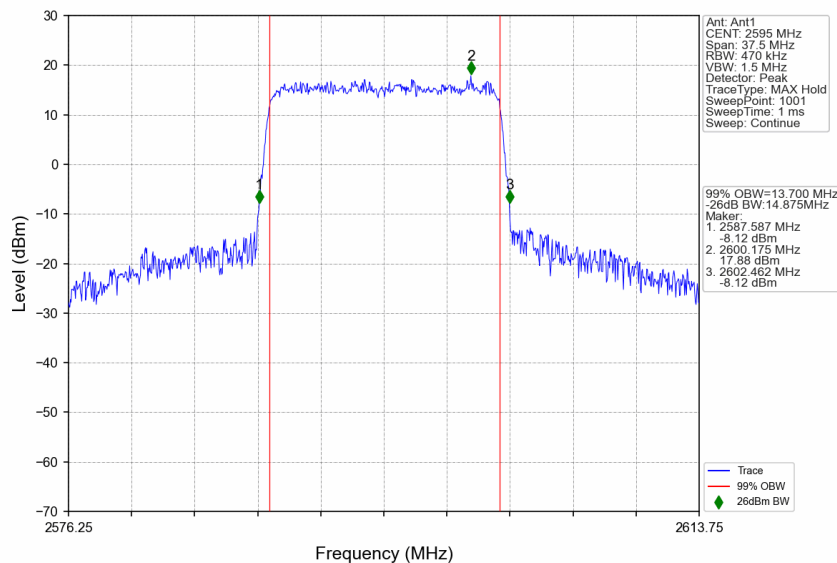
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2577.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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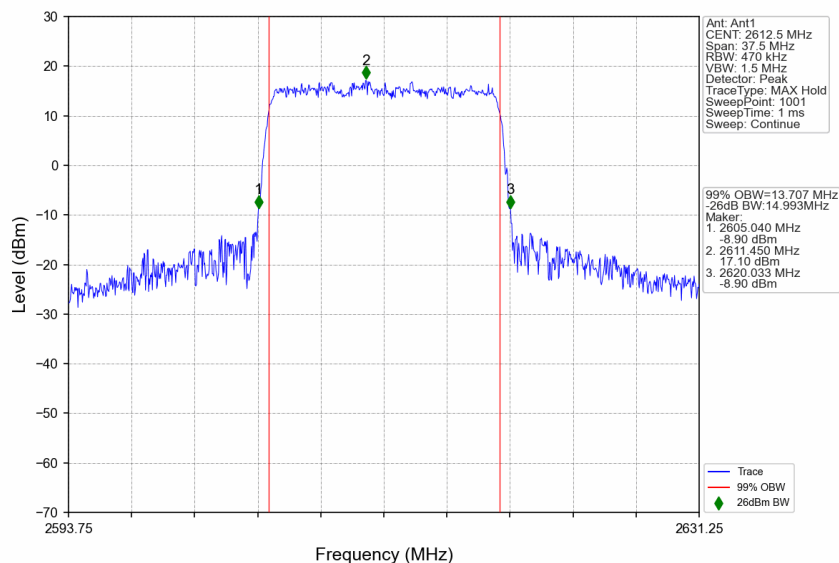
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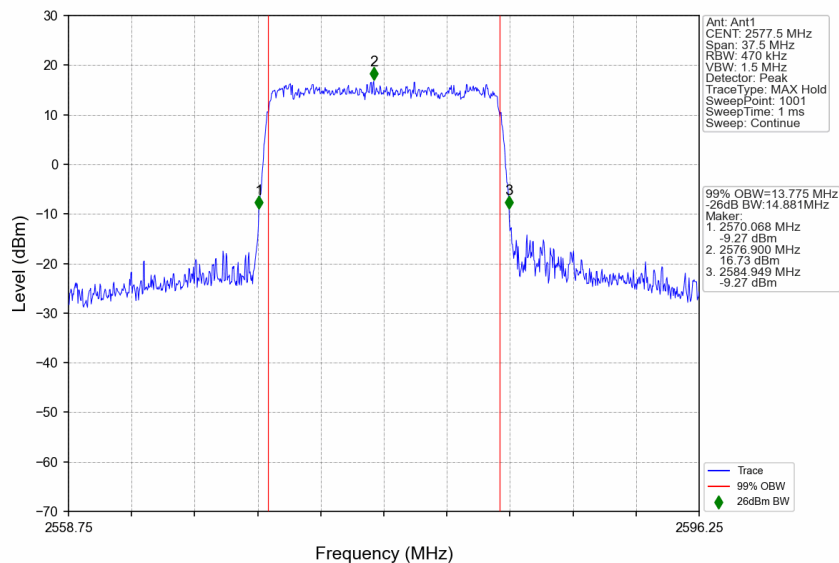
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2612.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2577.5MHz_Outer_Full



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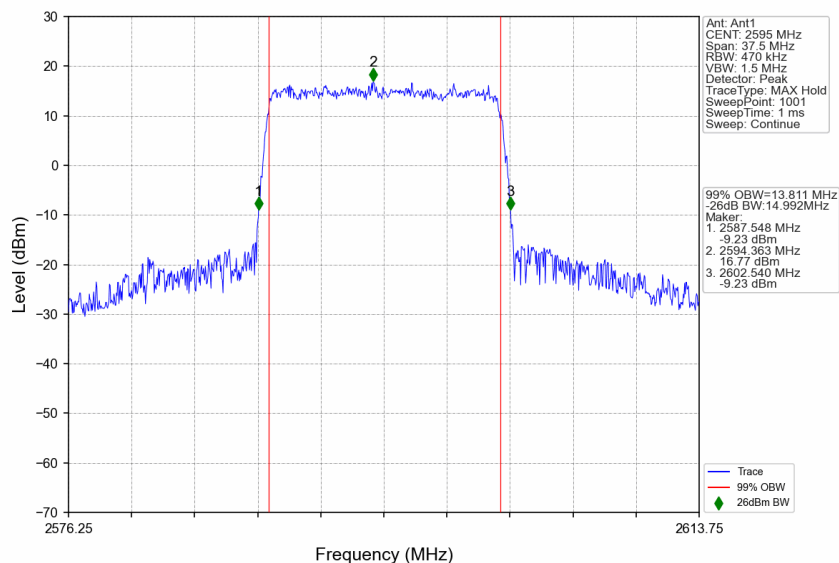
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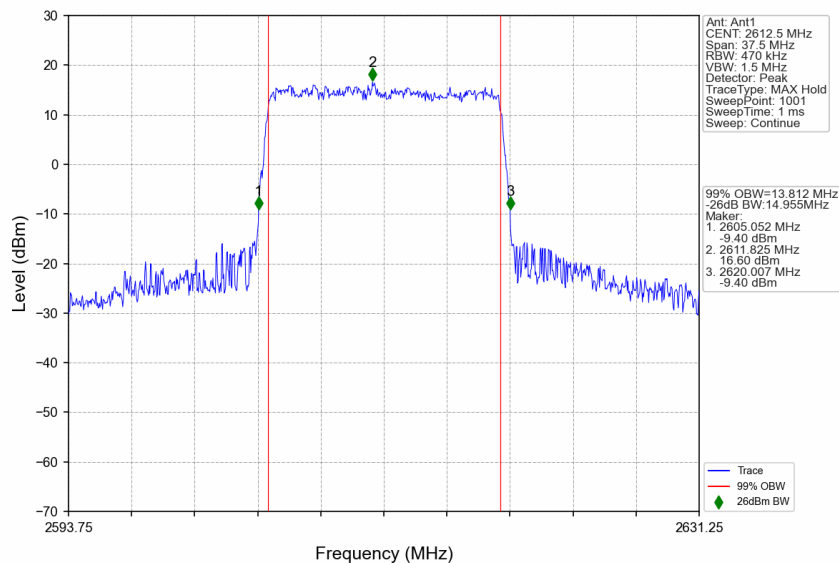
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n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2612.5MHz_Outer_Full



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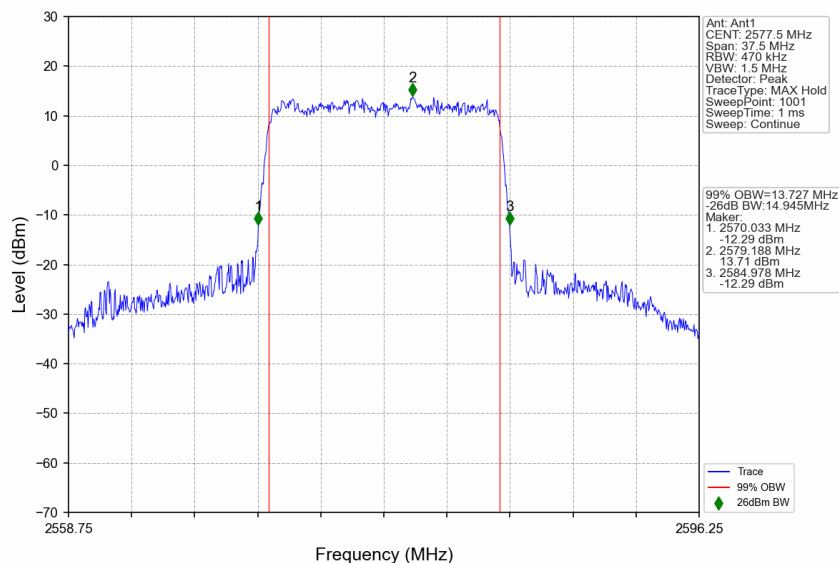
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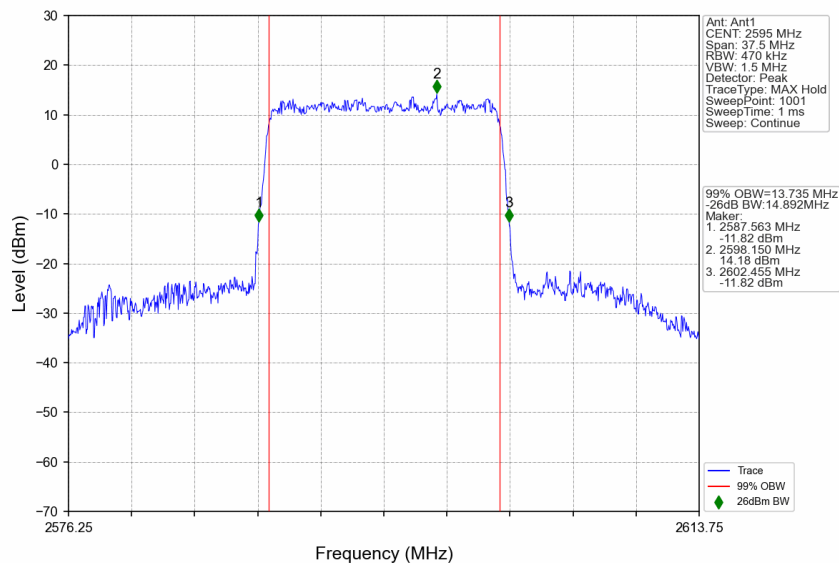
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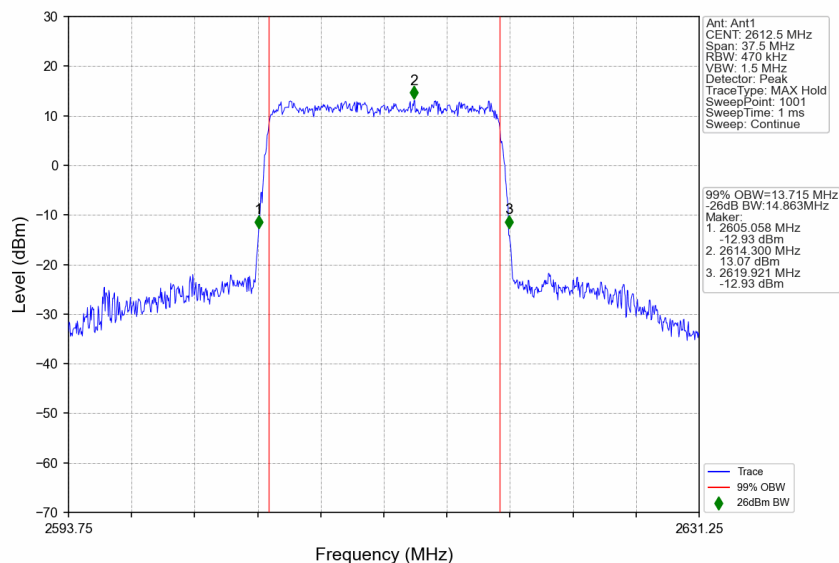
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4.10 30k_SISO_20MHz_NTNV

4.10.1 Test Result

5G NR n38 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2580	Outer Full	18.17	19.35	/	Pass
	2595	Outer Full	18.09	19.40	/	Pass
	2610	Outer Full	18.14	19.34	/	Pass
DFT-s-OFDM QPSK	2580	Outer Full	18.04	19.46	/	Pass
	2595	Outer Full	18.05	19.39	/	Pass
	2610	Outer Full	18.05	19.38	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer Full	18.07	19.43	/	Pass
	2595	Outer Full	18.11	19.40	/	Pass
	2610	Outer Full	18.08	19.37	/	Pass
DFT-s-OFDM 64 QAM	2580	Outer Full	18.12	19.52	/	Pass
	2595	Outer Full	18.07	19.43	/	Pass
	2610	Outer Full	18.13	19.47	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer Full	18.08	19.46	/	Pass
	2595	Outer Full	18.04	19.37	/	Pass
	2610	Outer Full	18.04	19.34	/	Pass
CP-OFDM QPSK	2580	Outer Full	18.42	19.82	/	Pass
	2595	Outer Full	18.42	19.90	/	Pass
	2610	Outer Full	18.43	19.83	/	Pass
CP-OFDM 16 QAM	2580	Outer Full	18.38	19.85	/	Pass
	2595	Outer Full	18.43	19.71	/	Pass
	2610	Outer Full	18.43	19.80	/	Pass
CP-OFDM 64 QAM	2580	Outer Full	18.43	19.79	/	Pass
	2595	Outer Full	18.41	19.87	/	Pass
	2610	Outer Full	18.41	19.78	/	Pass
CP-OFDM 256 QAM	2580	Outer Full	18.38	19.75	/	Pass
	2595	Outer Full	18.39	19.75	/	Pass
	2610	Outer Full	18.39	19.78	/	Pass



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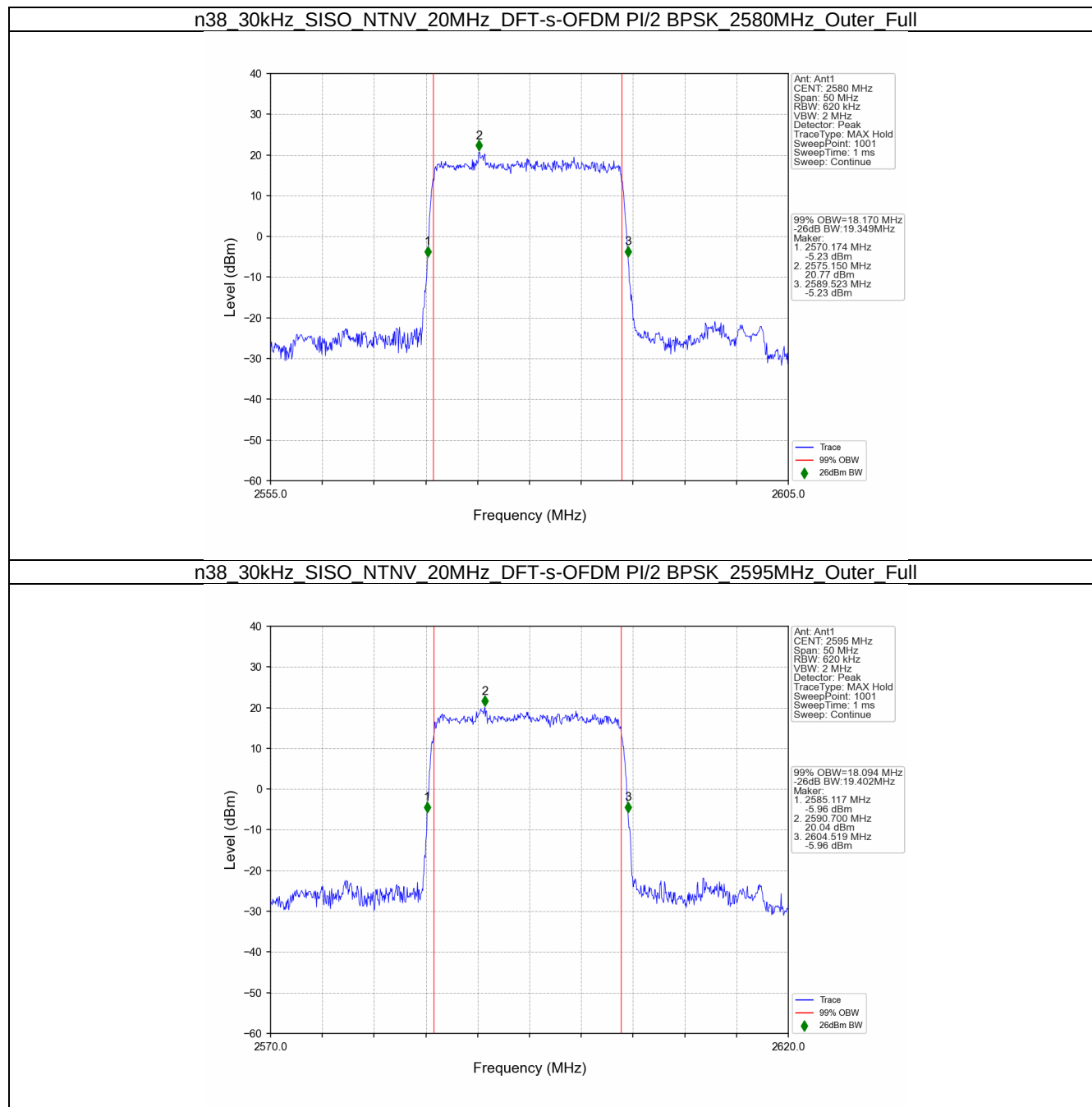
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4.10.2 Test Graph



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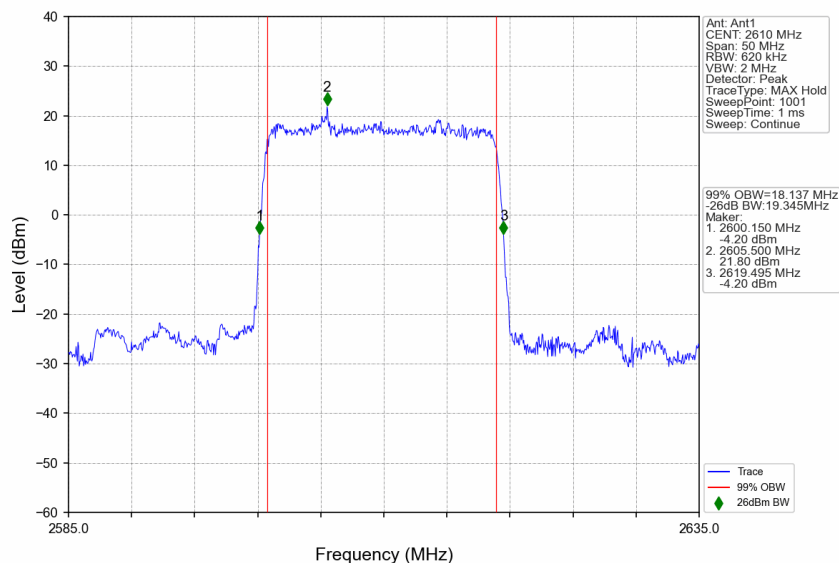
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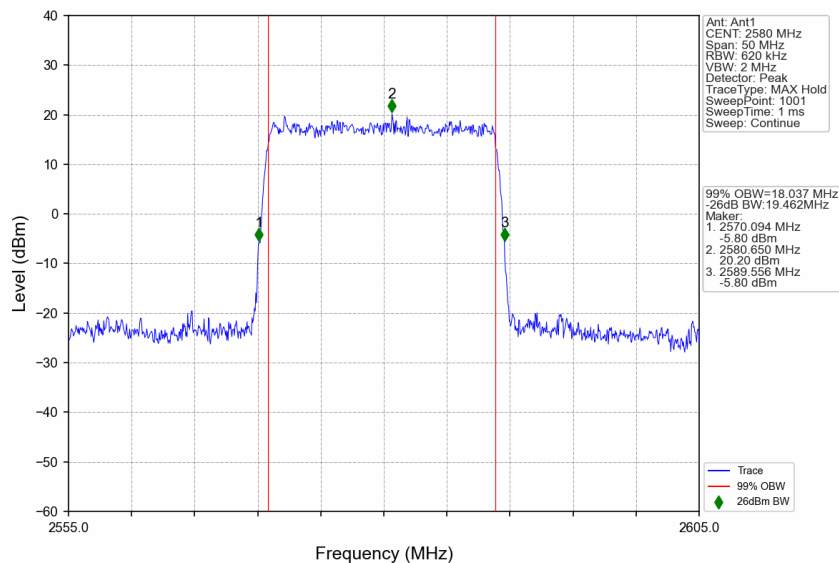
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full



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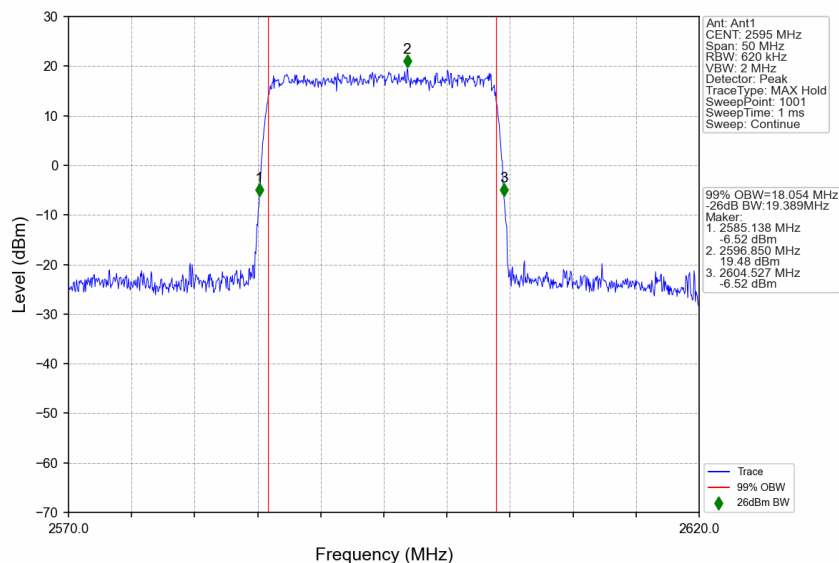
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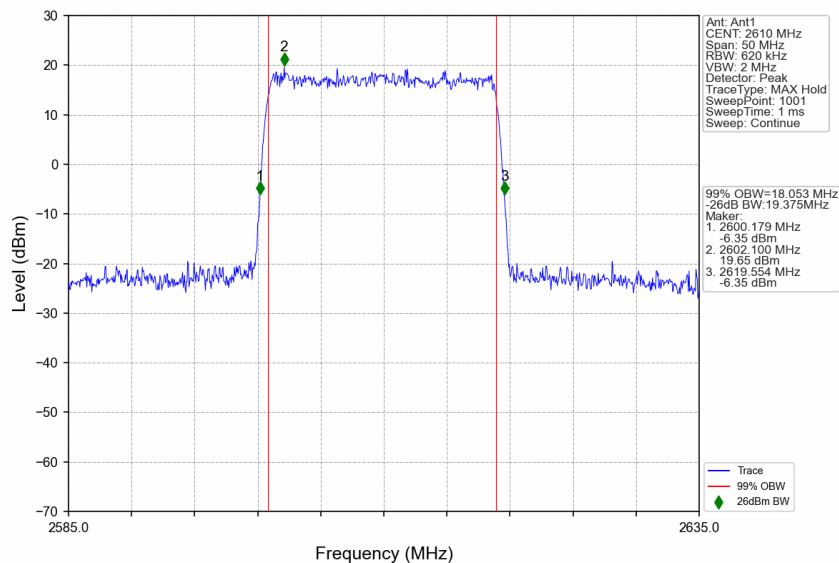
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Outer_Full



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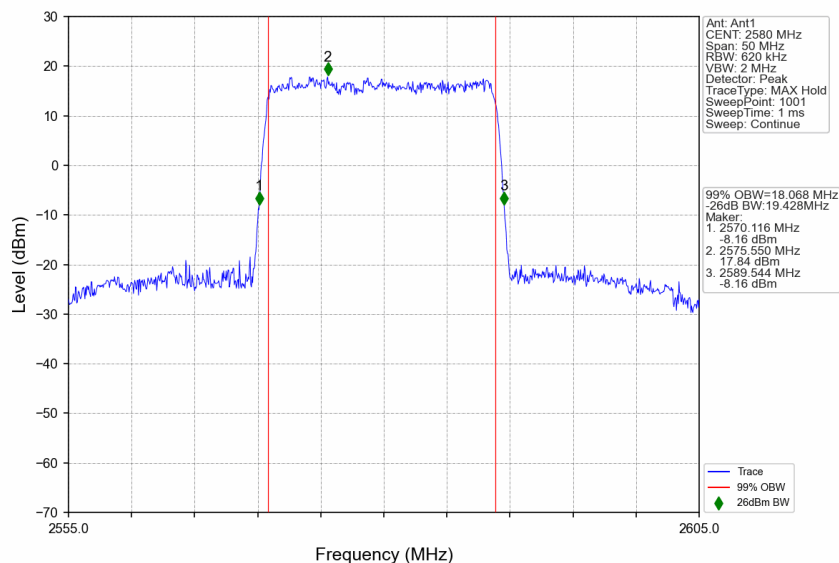
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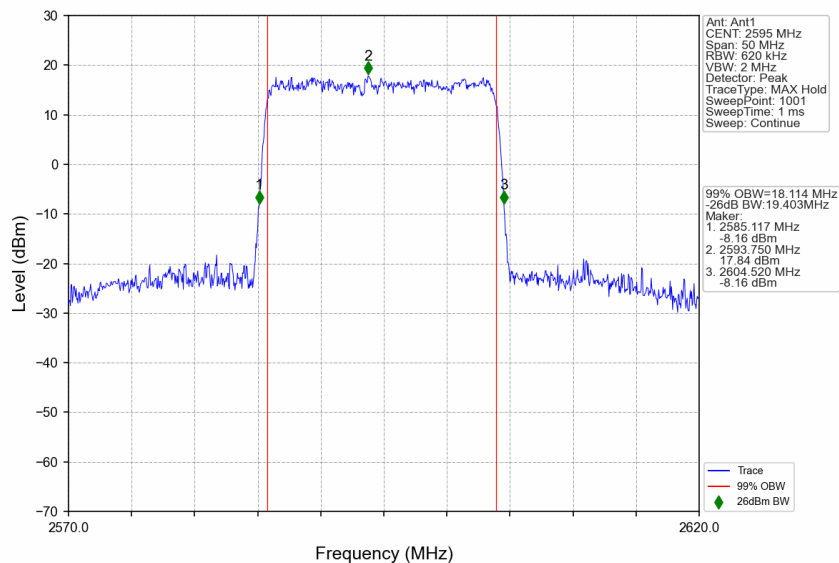
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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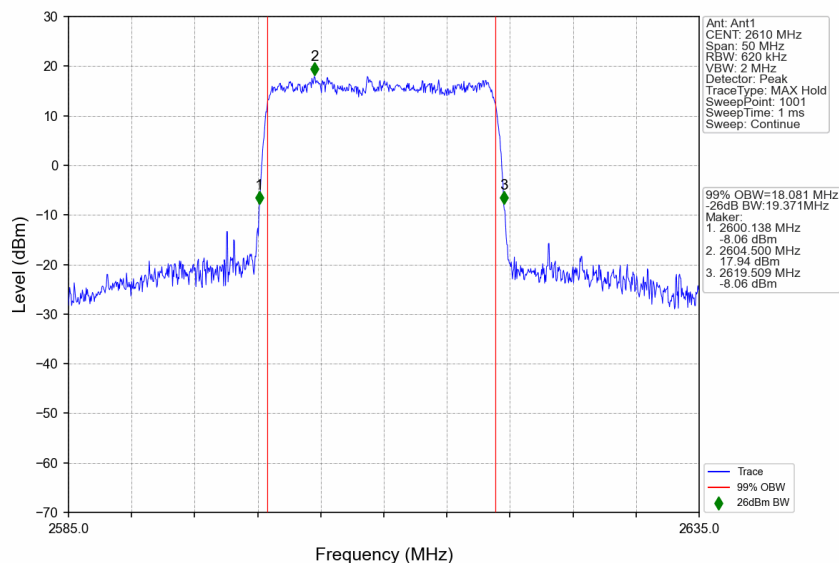
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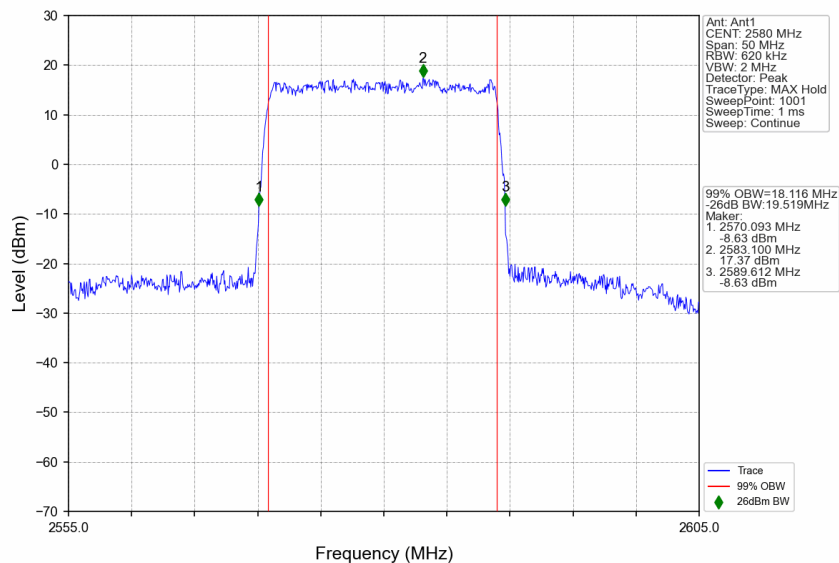
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2580MHz_Outer_Full



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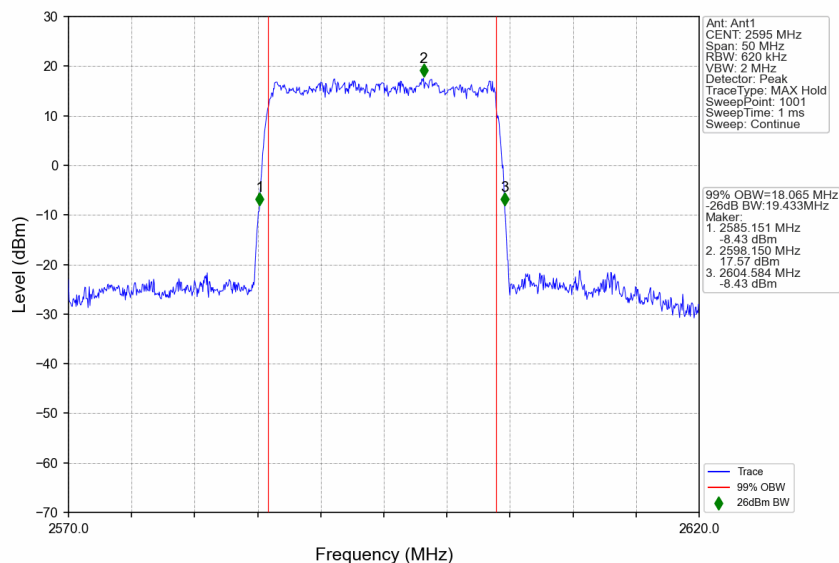
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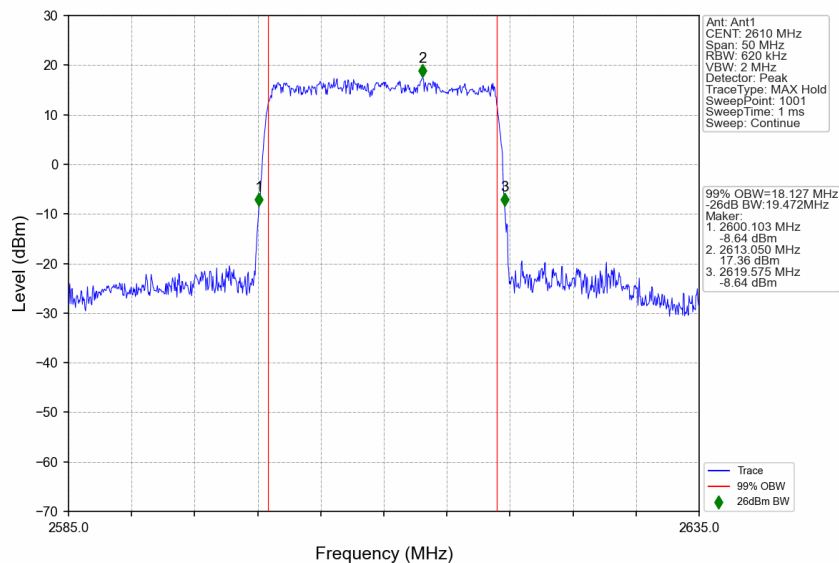
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2610MHz_Outer_Full



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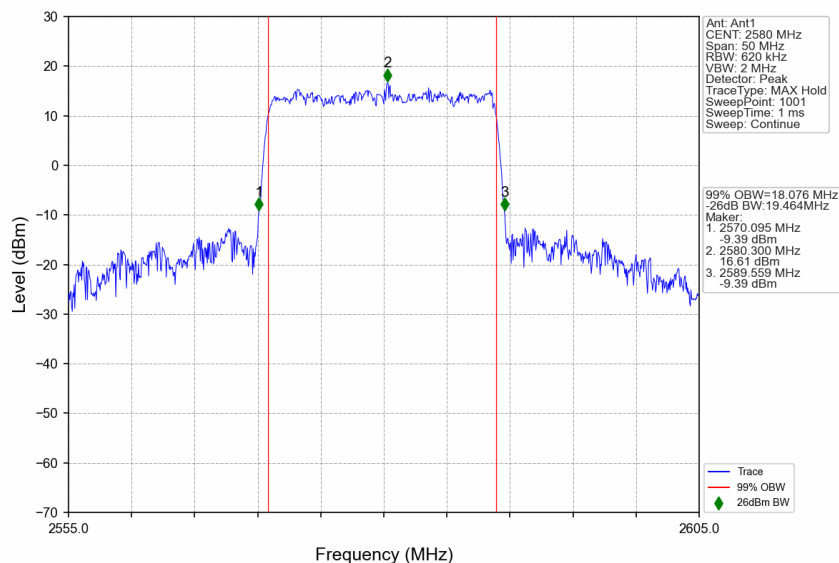
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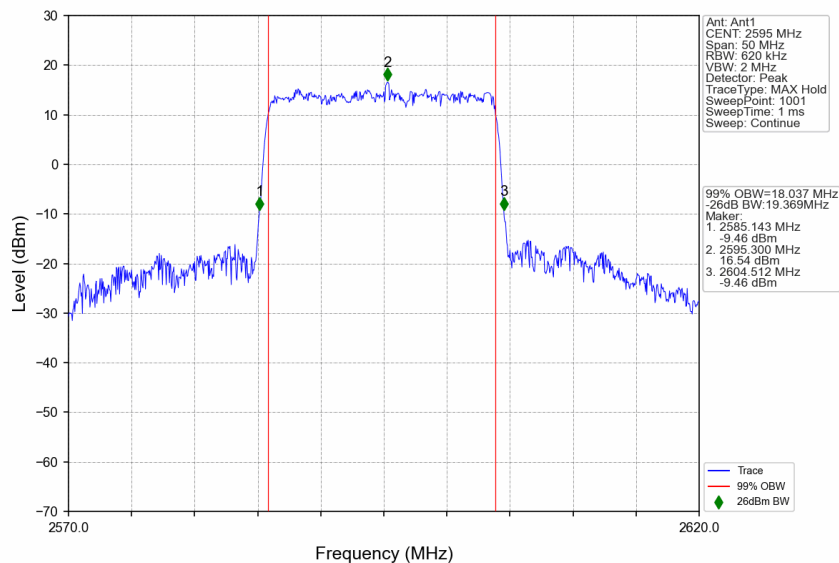
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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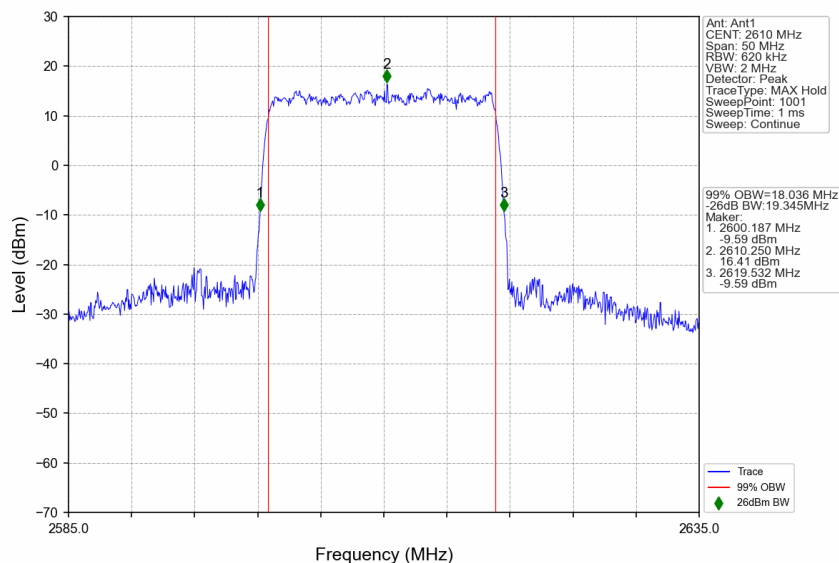
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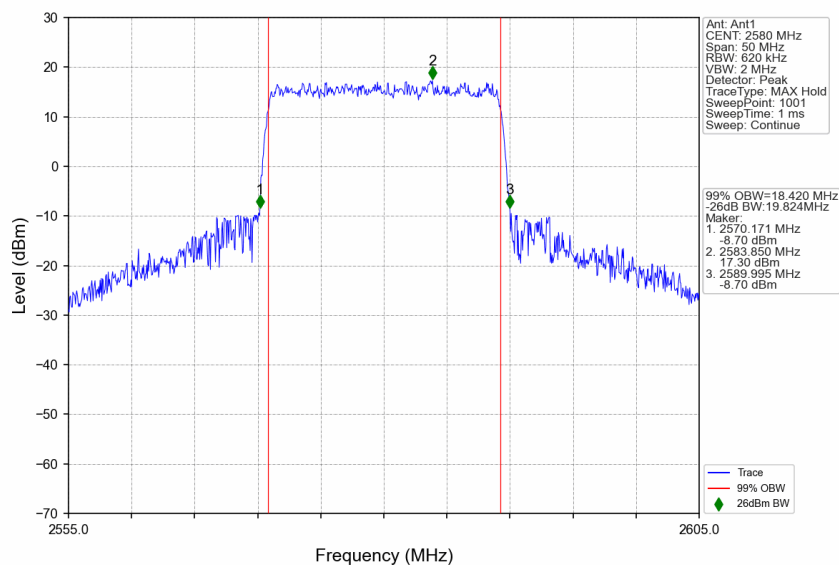
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2580MHz_Outer_Full



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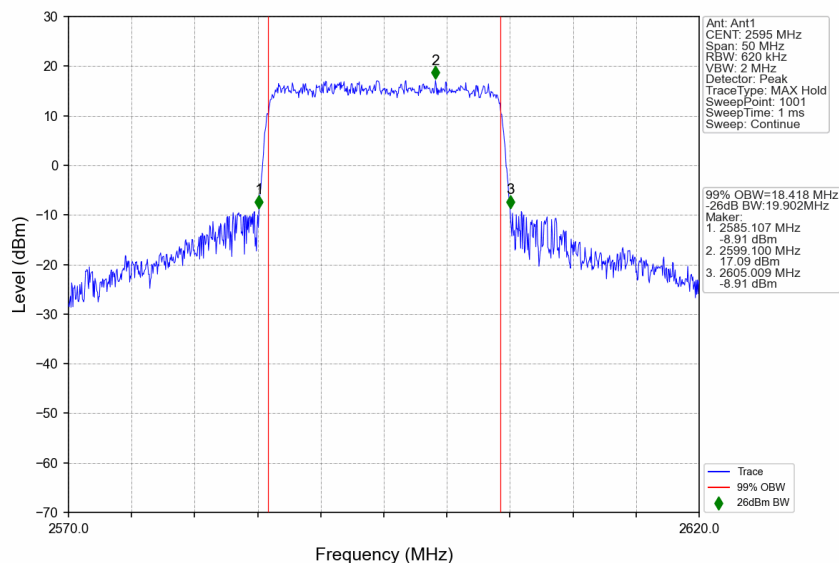
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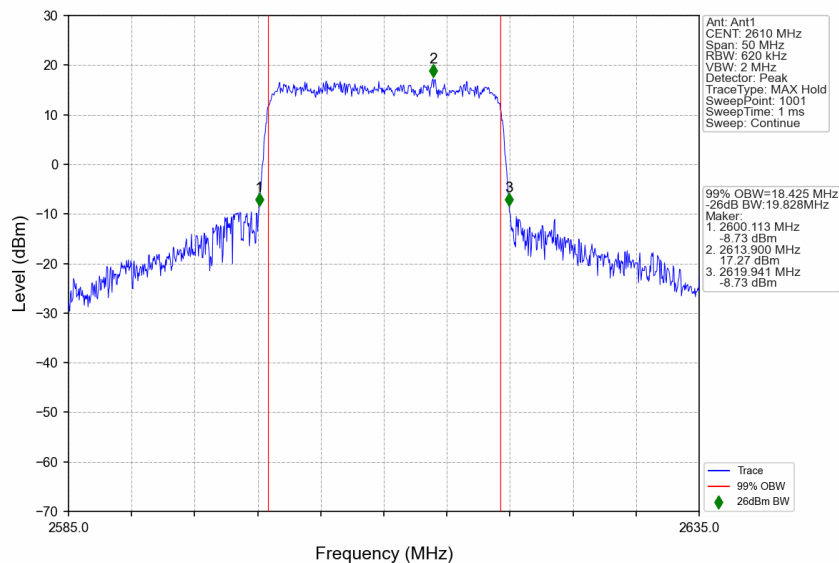
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Outer_Full



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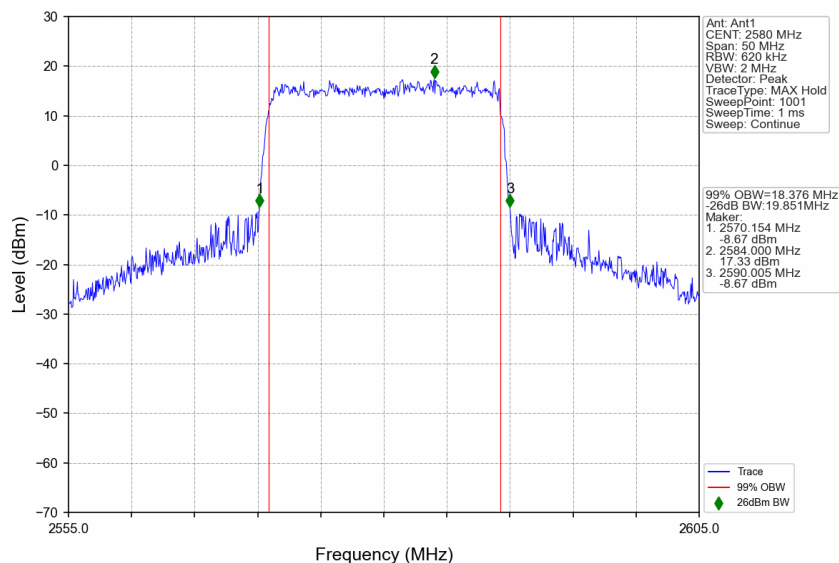
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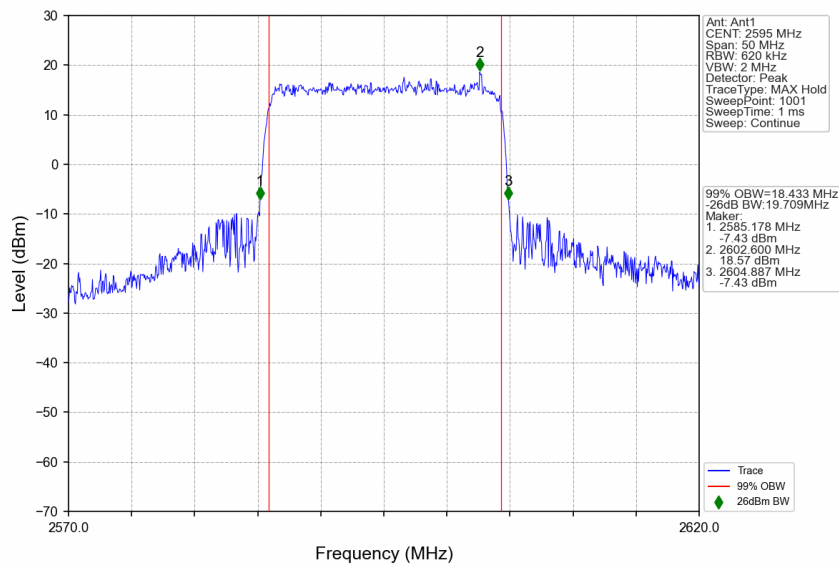
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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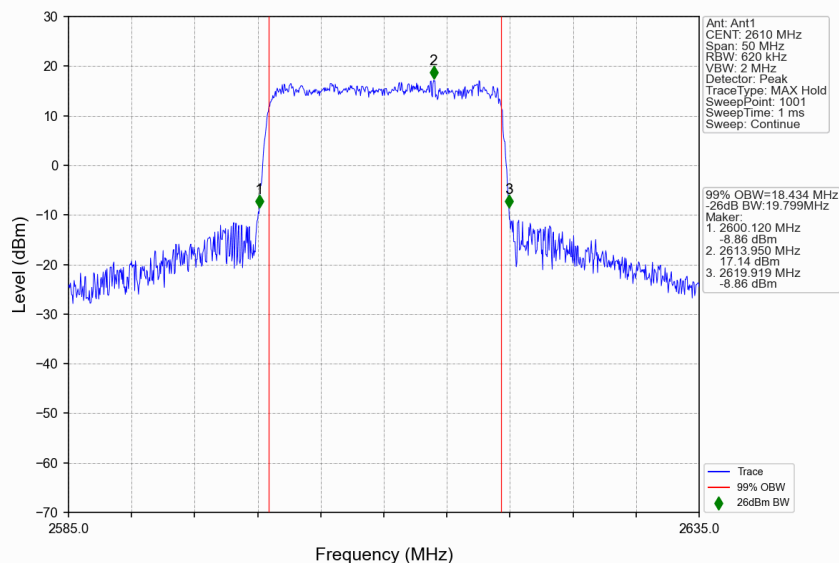
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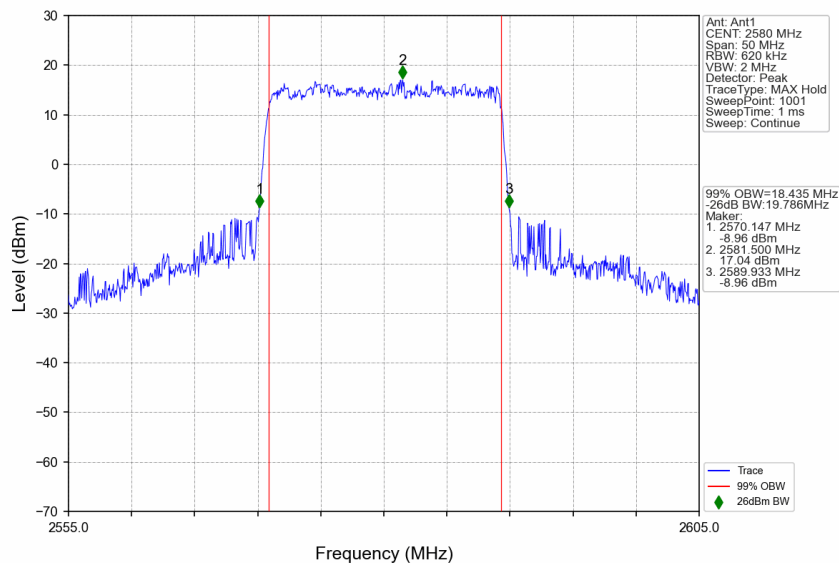
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2580MHz_Outer_Full



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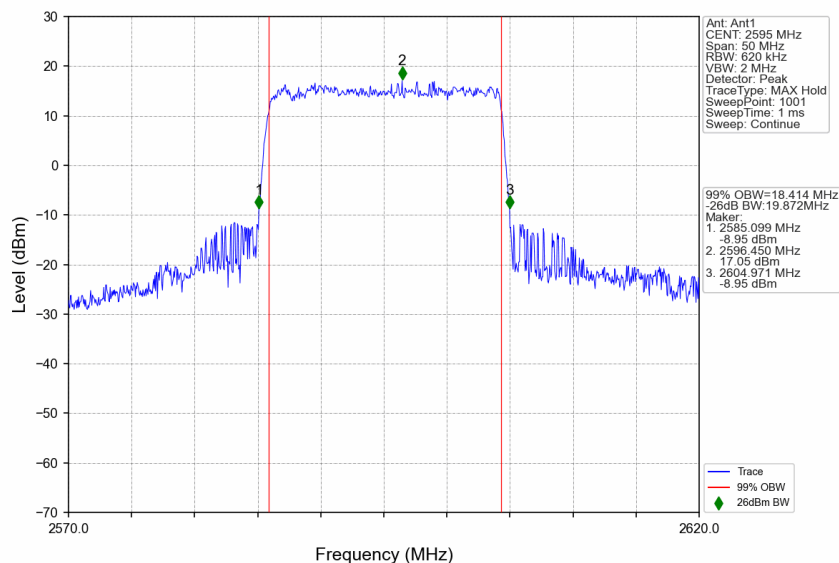
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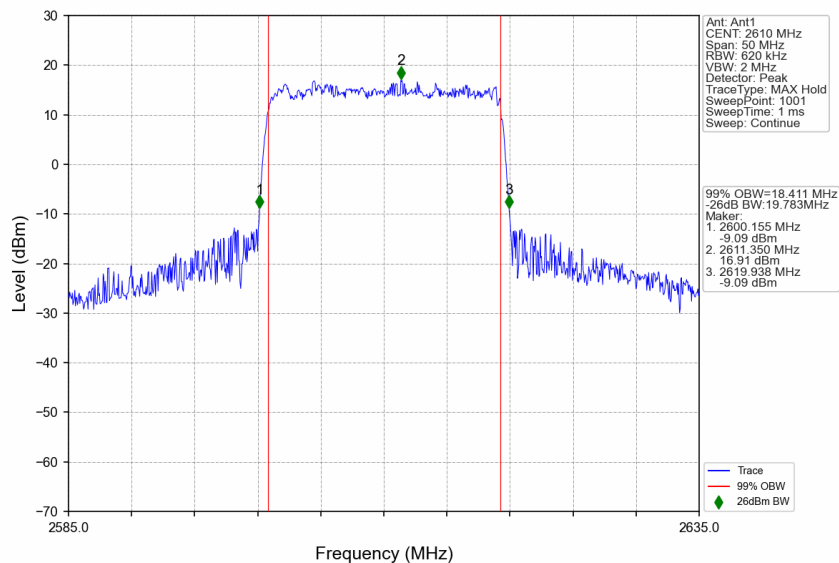
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2610MHz_Outer_Full



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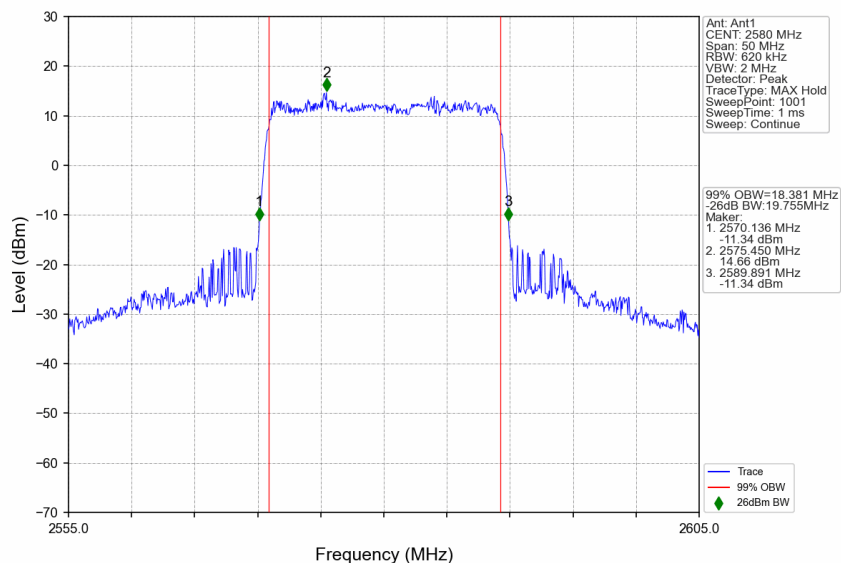
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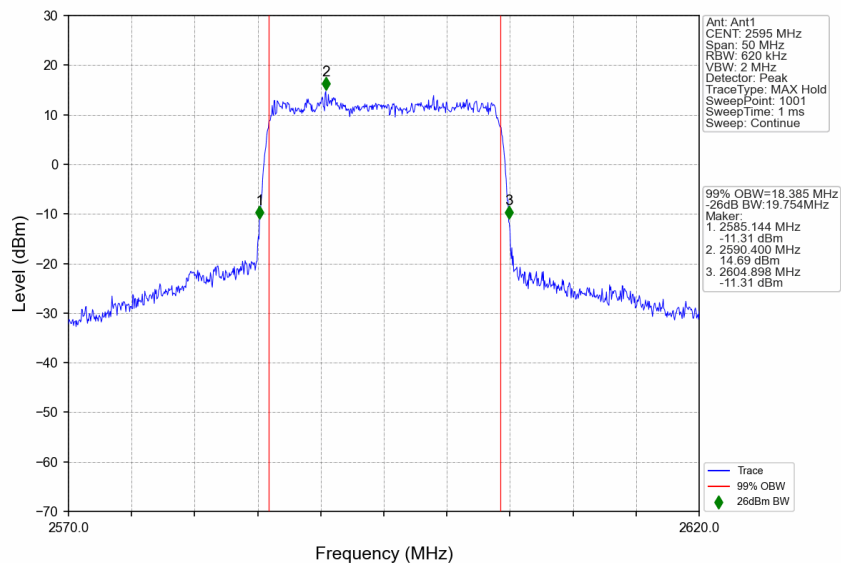
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_256 QAM_2580MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_256 QAM_2595MHz_Outer_Full



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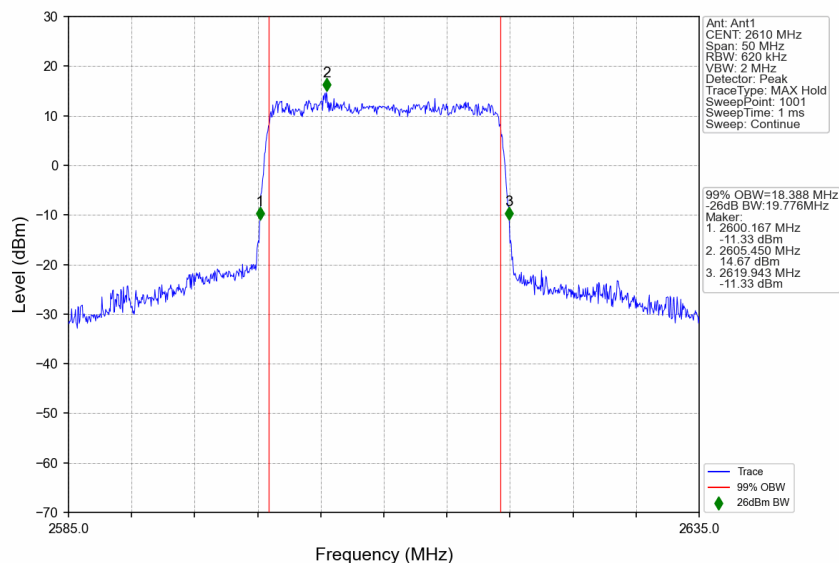
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4.11 30k_SISO_25MHz_NTNV

4.11.1 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	23.22	24.68	/	Pass
	2595	Outer Full	23.16	24.79	/	Pass
	2607.5	Outer Full	23.13	24.76	/	Pass
DFT-s-OFDM QPSK	2582.5	Outer Full	23.08	24.74	/	Pass
	2595	Outer Full	23.10	24.74	/	Pass
	2607.5	Outer Full	23.08	24.73	/	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer Full	23.08	24.73	/	Pass
	2595	Outer Full	23.10	24.80	/	Pass
	2607.5	Outer Full	23.16	24.75	/	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer Full	23.18	24.80	/	Pass
	2595	Outer Full	23.16	24.77	/	Pass
	2607.5	Outer Full	23.20	24.82	/	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer Full	23.04	24.68	/	Pass
	2595	Outer Full	23.04	24.68	/	Pass
	2607.5	Outer Full	23.07	24.75	/	Pass
CP-OFDM QPSK	2582.5	Outer Full	23.41	25.14	/	Pass
	2595	Outer Full	23.38	25.10	/	Pass
	2607.5	Outer Full	23.42	25.11	/	Pass
CP-OFDM 16 QAM	2582.5	Outer Full	23.48	25.10	/	Pass
	2595	Outer Full	23.52	25.21	/	Pass
	2607.5	Outer Full	23.57	25.13	/	Pass
CP-OFDM 64 QAM	2582.5	Outer Full	23.50	25.08	/	Pass
	2595	Outer Full	23.50	25.13	/	Pass
	2607.5	Outer Full	23.53	25.13	/	Pass
CP-OFDM 256 QAM	2582.5	Outer Full	23.44	25.07	/	Pass
	2595	Outer Full	23.43	25.15	/	Pass
	2607.5	Outer Full	23.45	25.18	/	Pass



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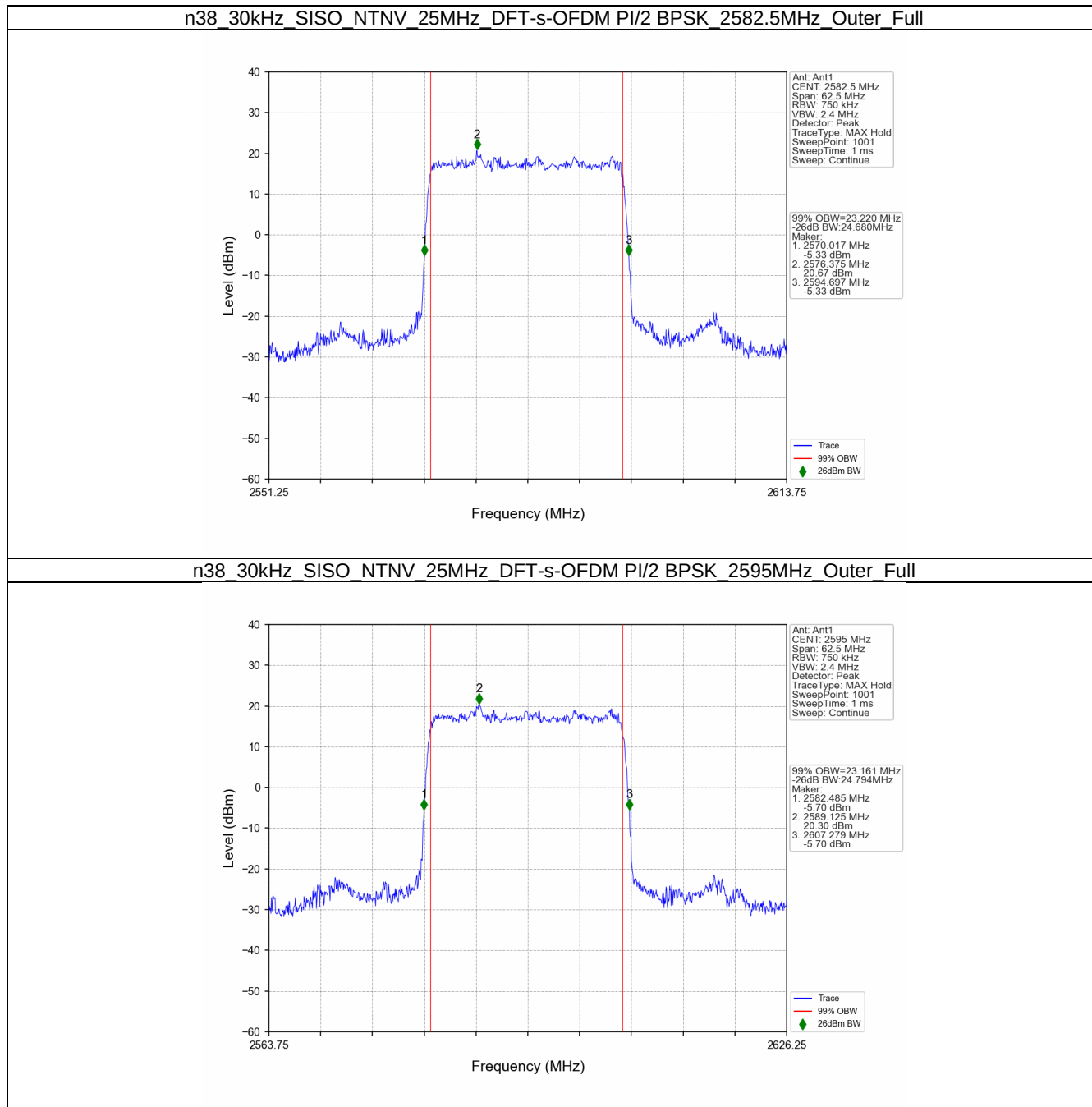
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4.11.2 Test Graph



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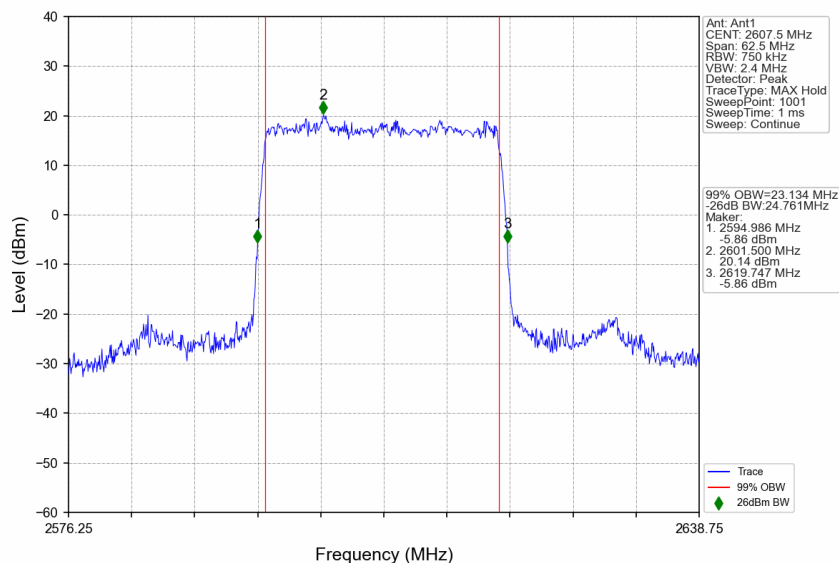
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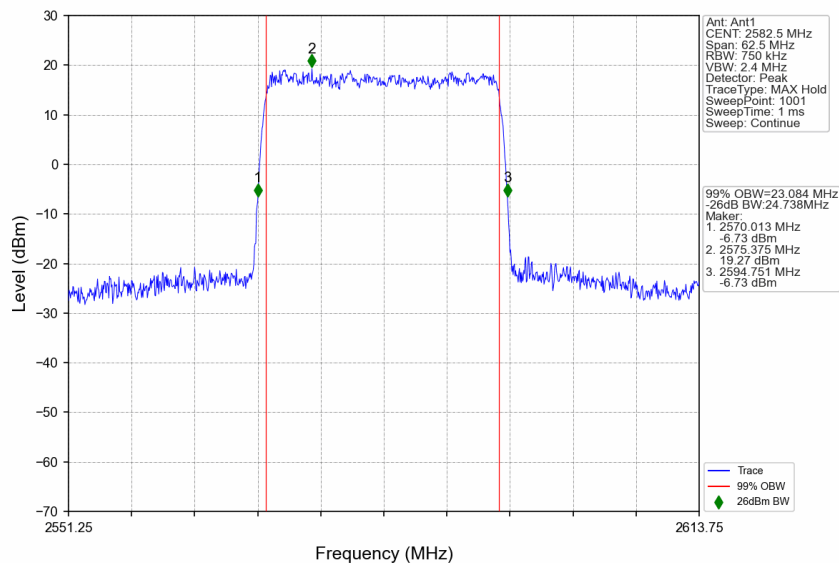
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2582.5MHz_Outer_Full



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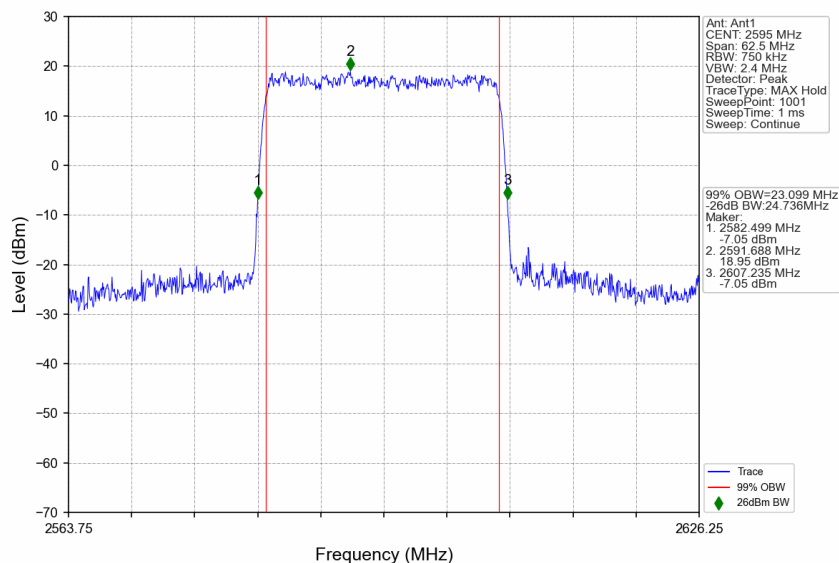
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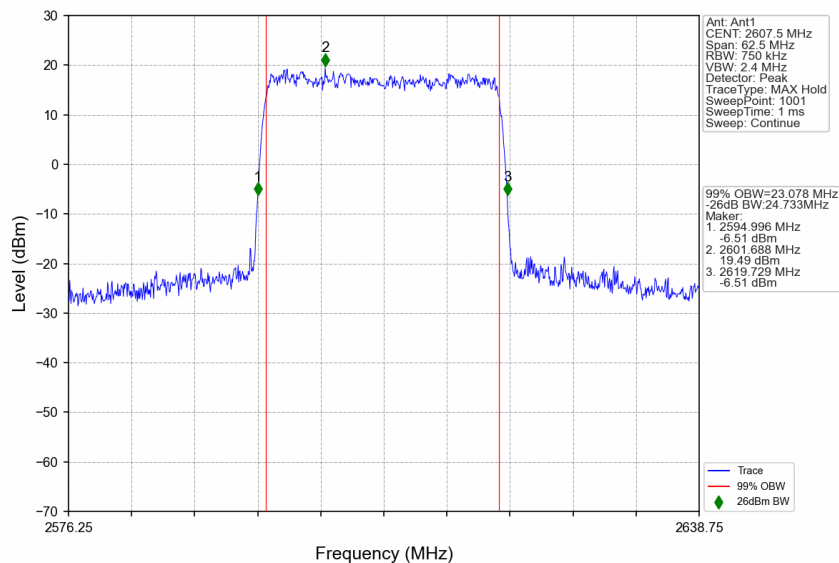
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2607.5MHz_Outer_Full



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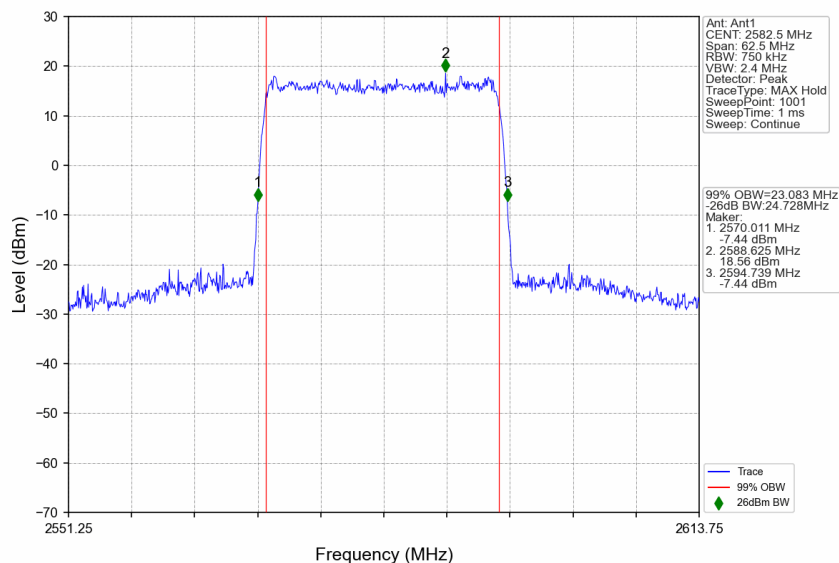
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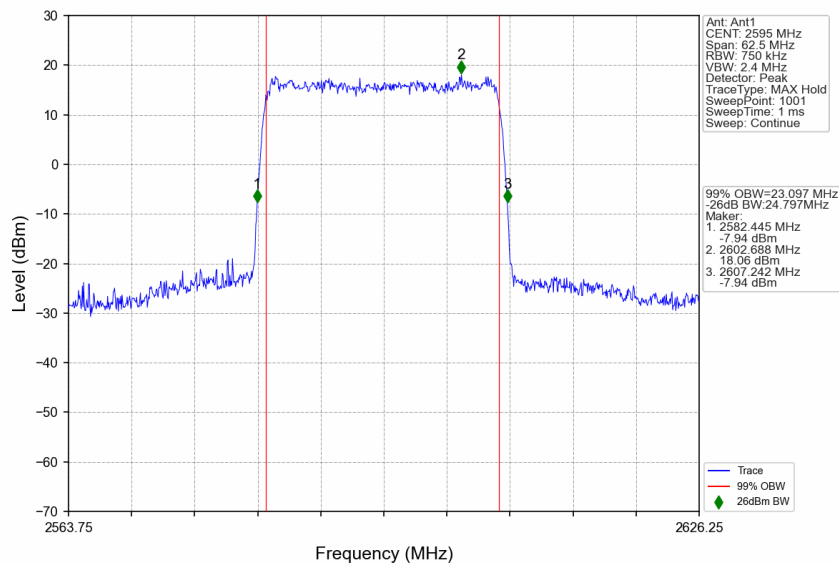
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2582.5MHz_Outer_Full



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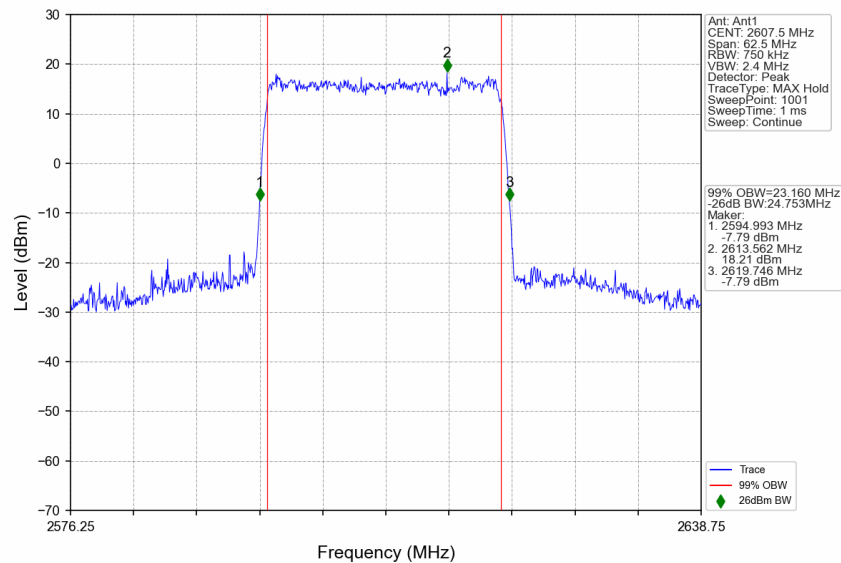
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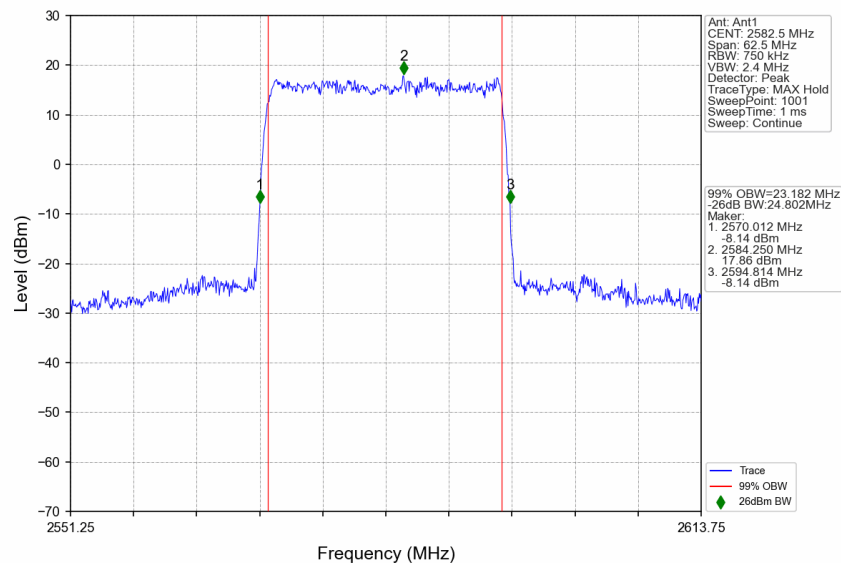
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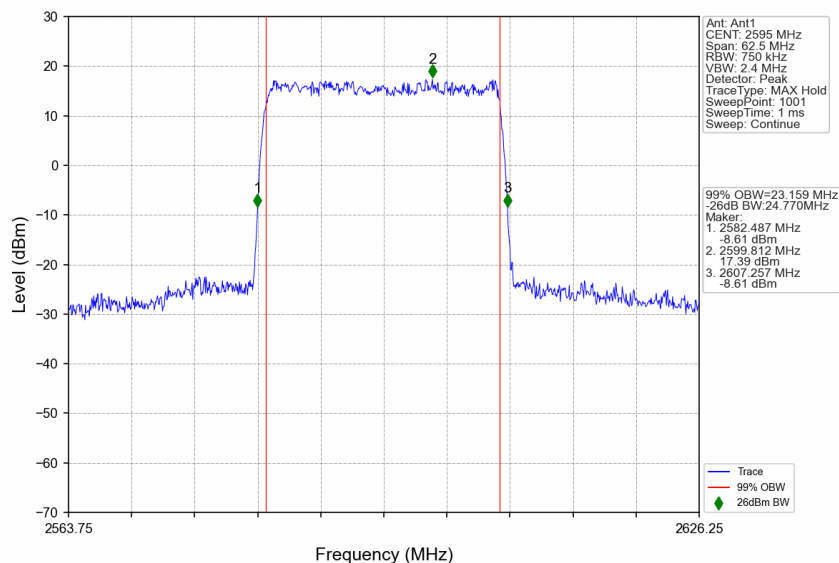
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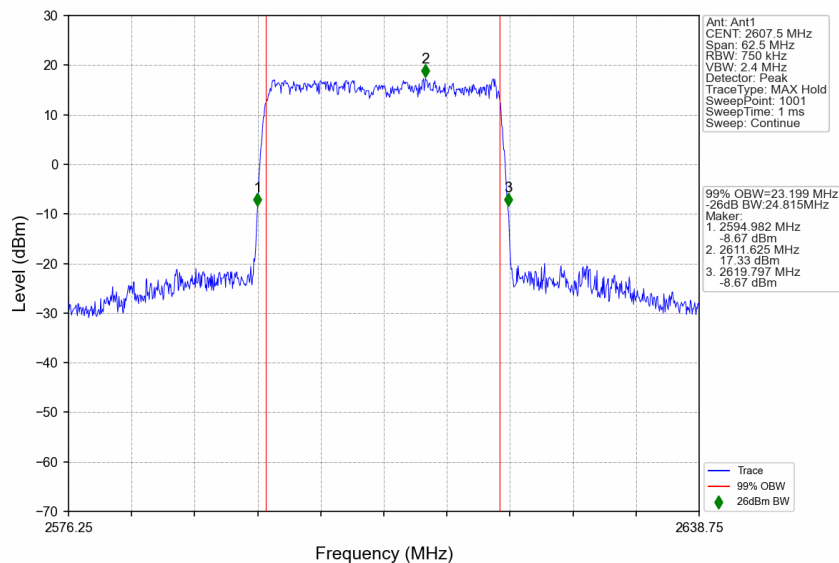
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_2607.5MHz_Outer_Full



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

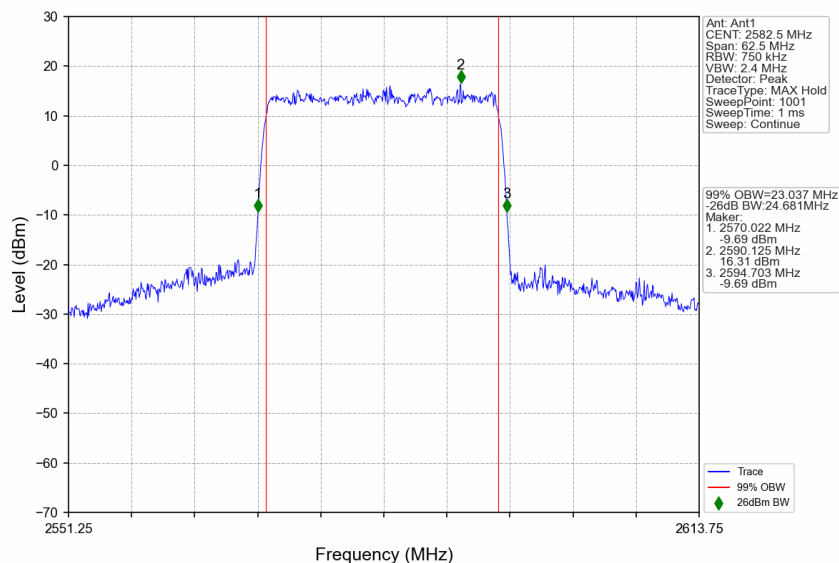
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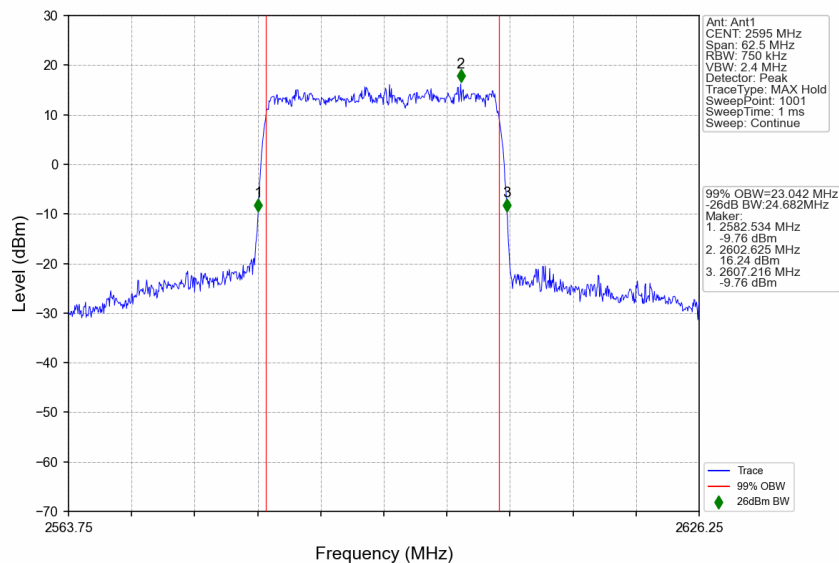
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2582.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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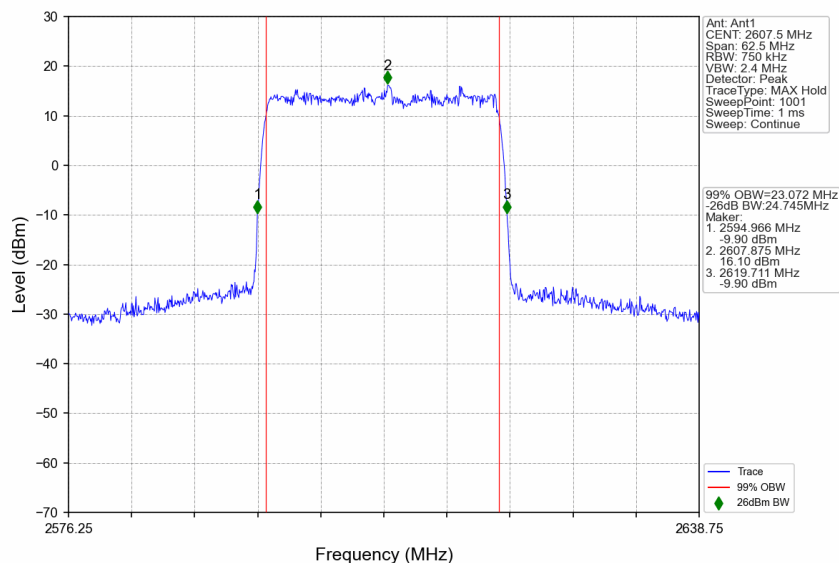
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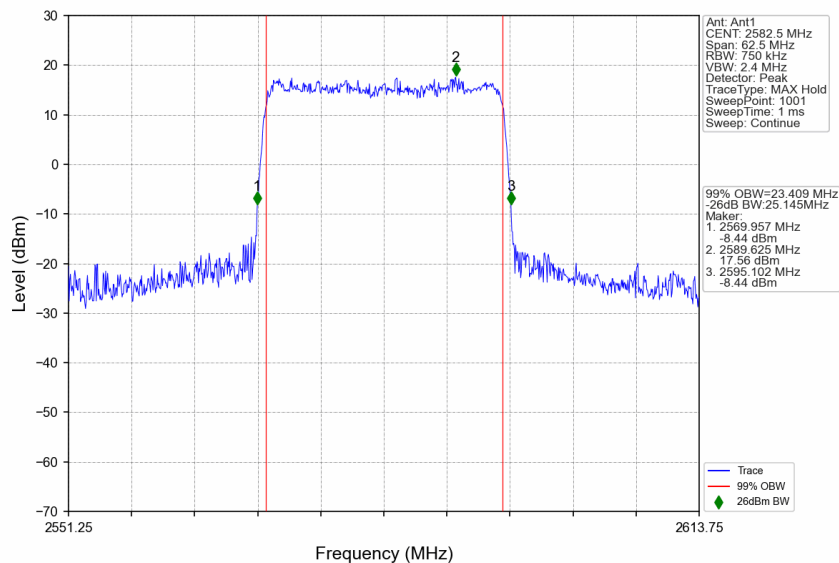
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n38_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2607.5MHz_Outer_Full



n38_30kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_2582.5MHz_Outer_Full



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