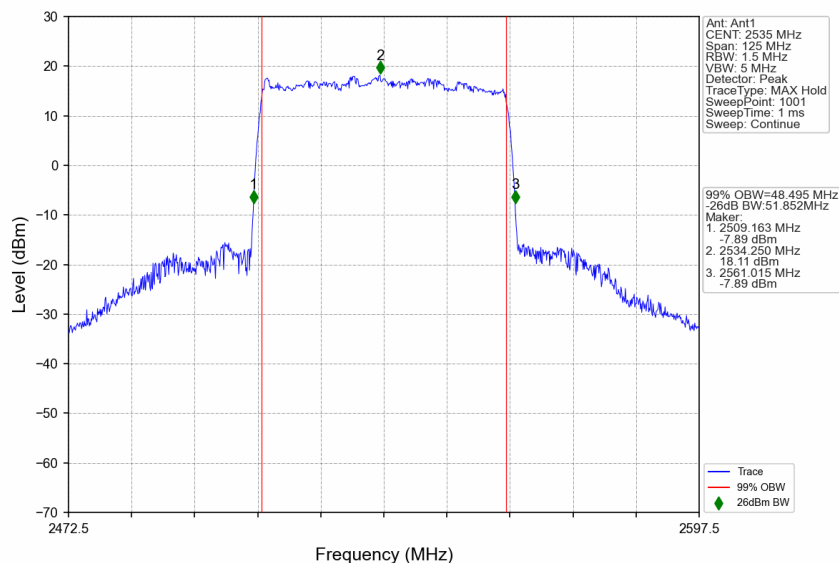


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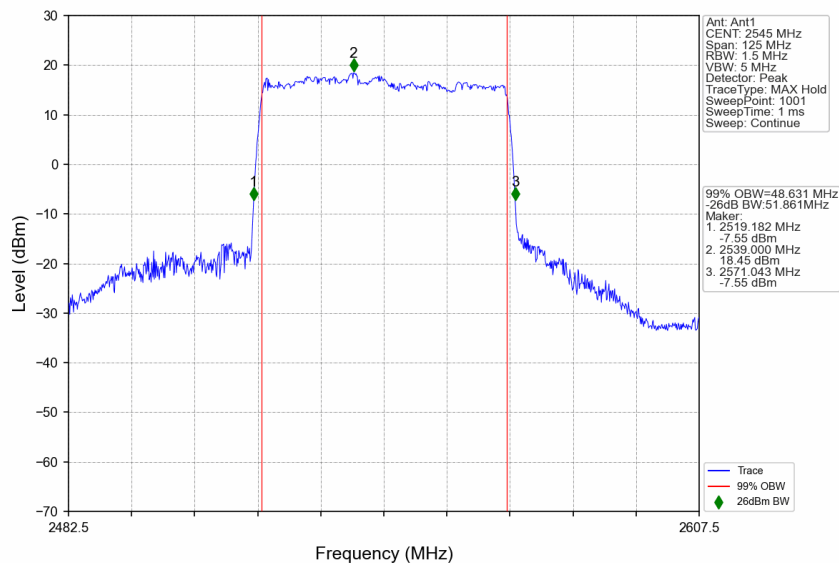
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2545MHz_Outer_Full



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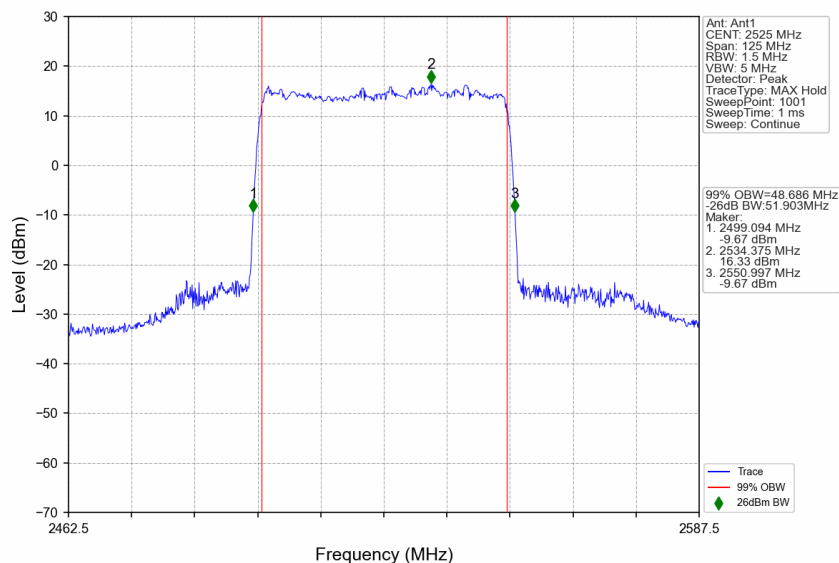
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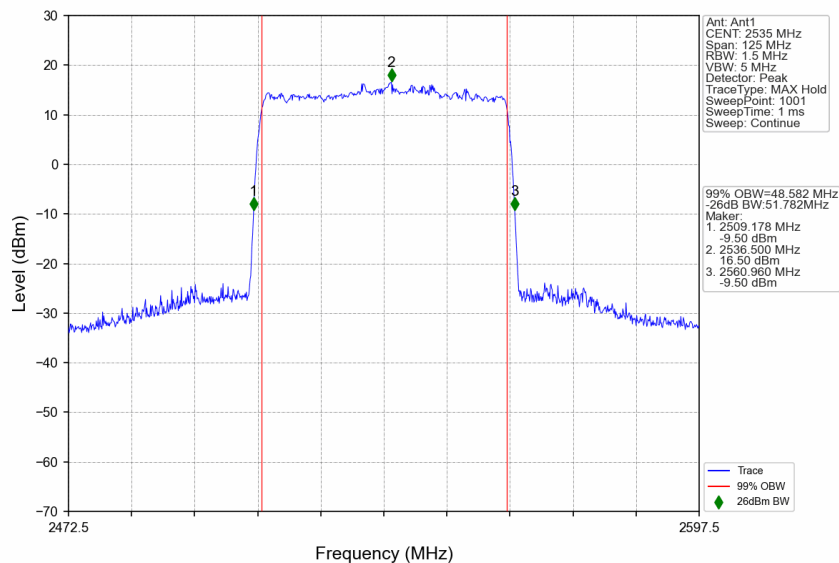
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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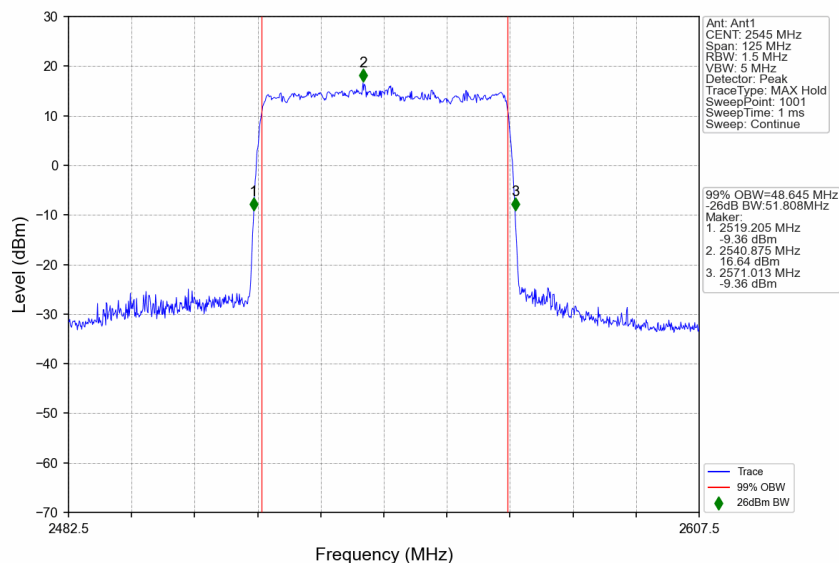
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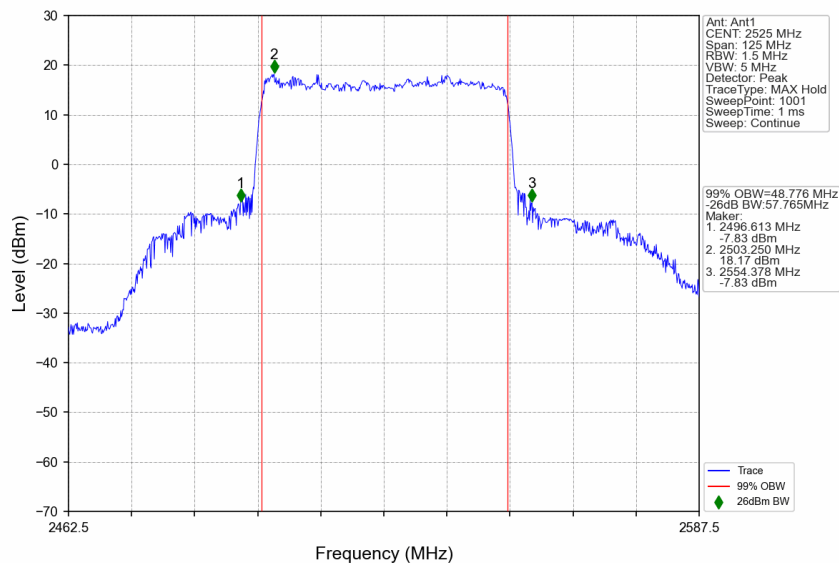
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2525MHz_Outer_Full



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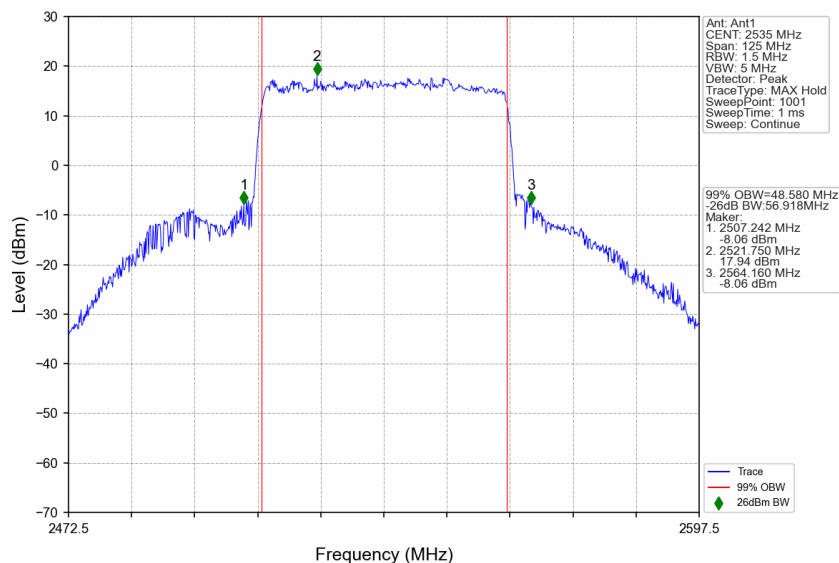
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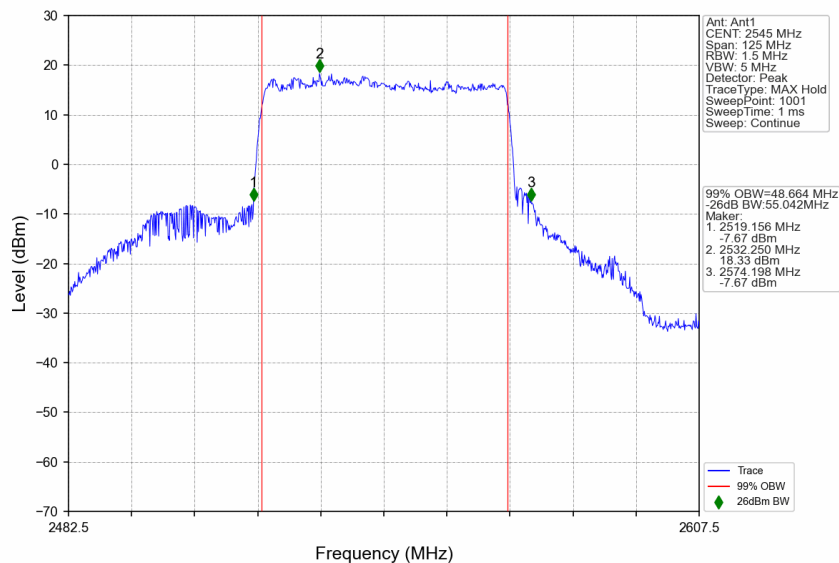
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2545MHz_Outer_Full



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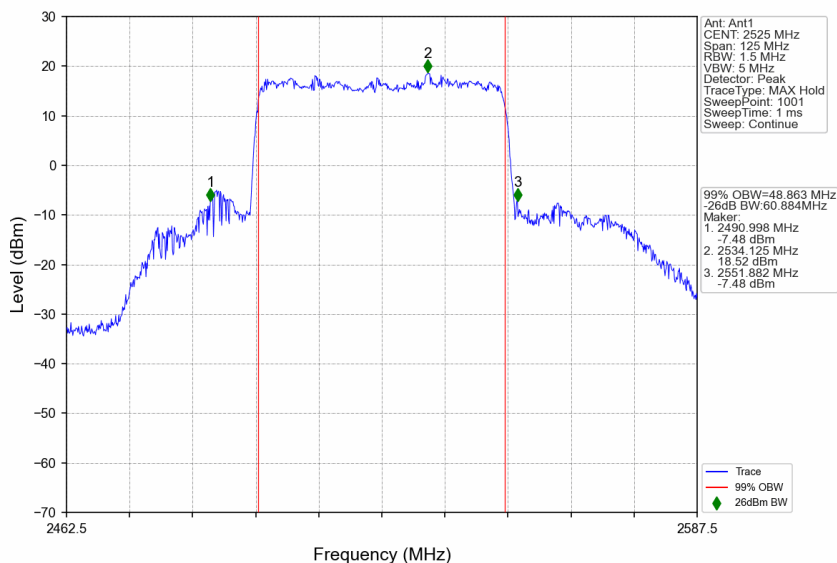
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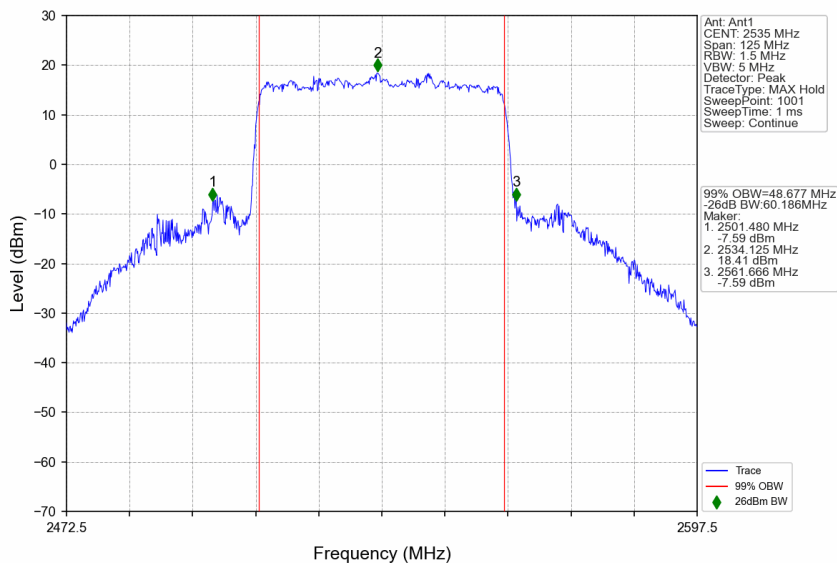
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 2535MHz_Outer_Full



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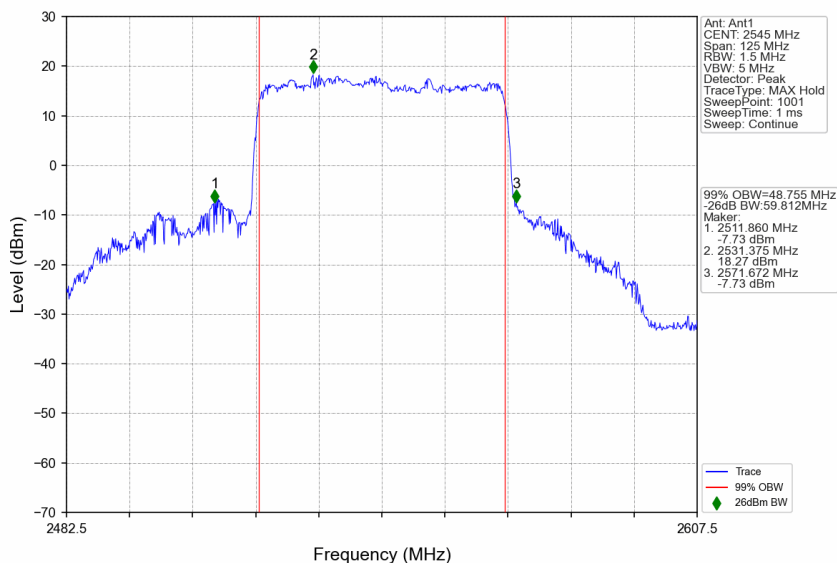
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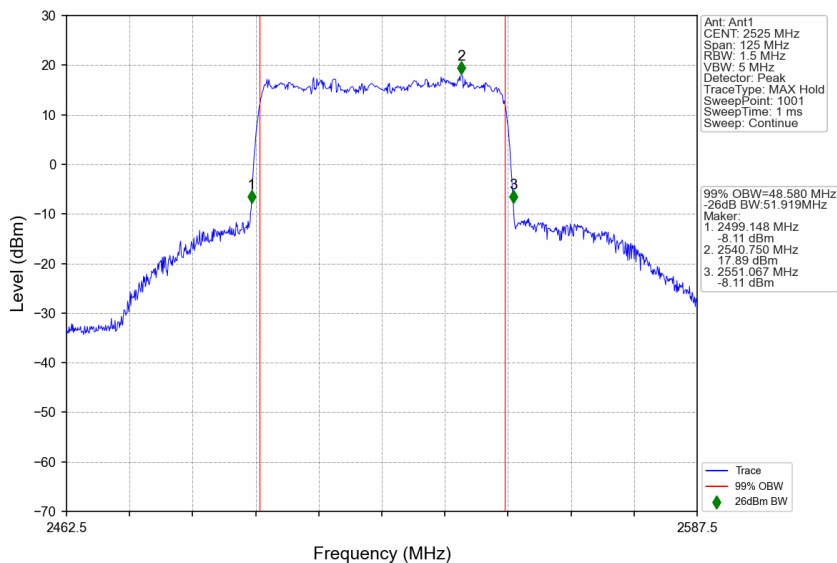
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM 2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM 2525MHz_Outer_Full



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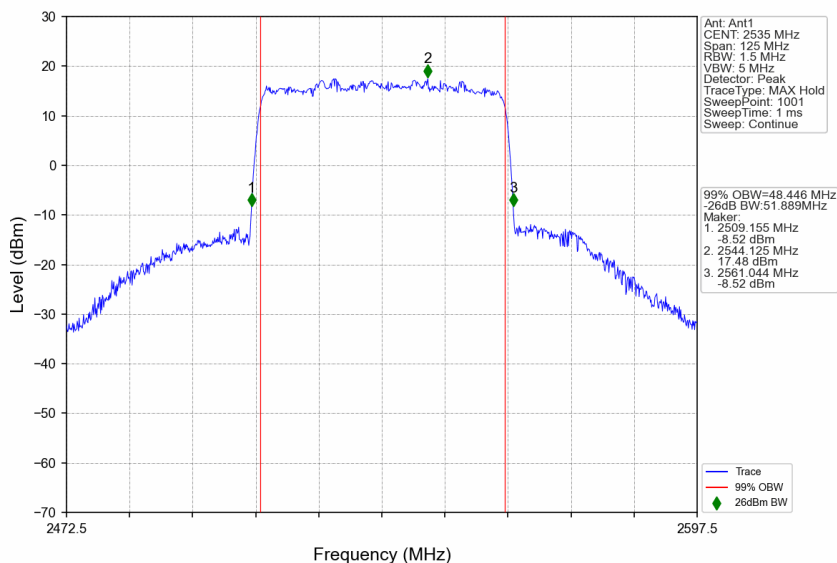
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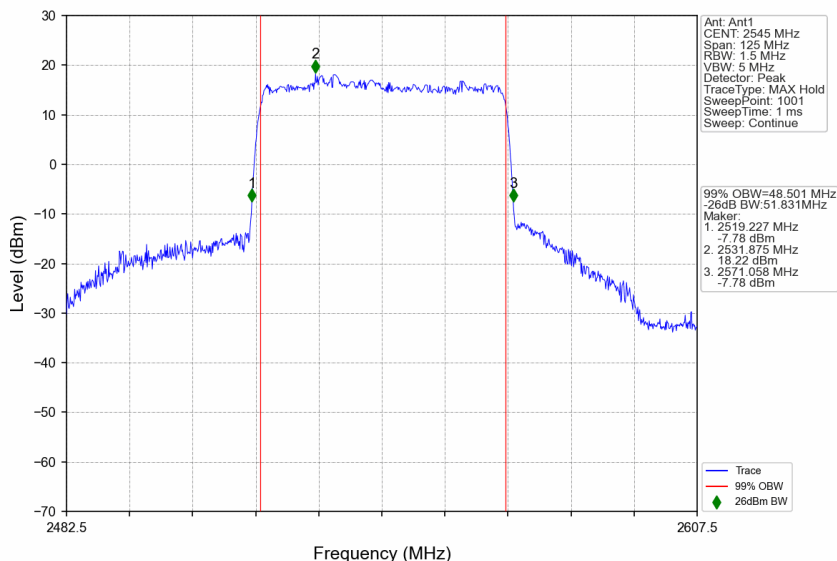
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM 2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM 2545MHz_Outer_Full



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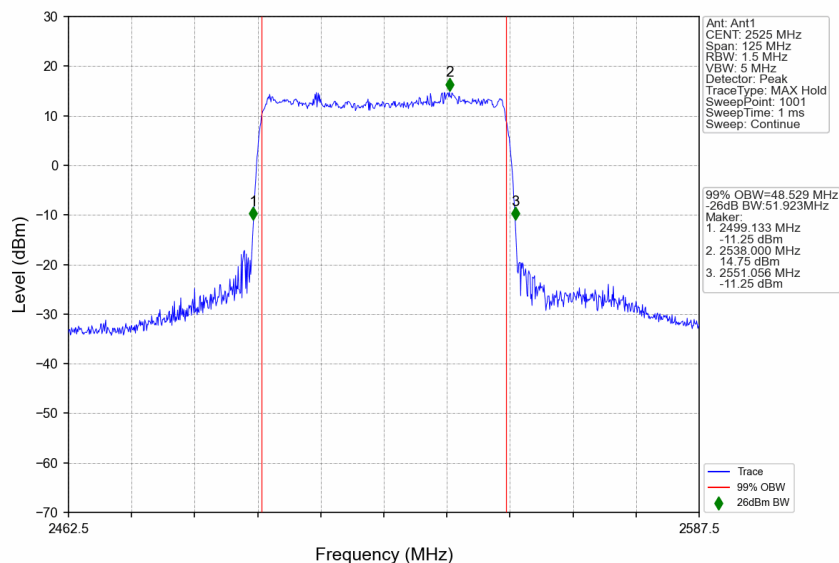
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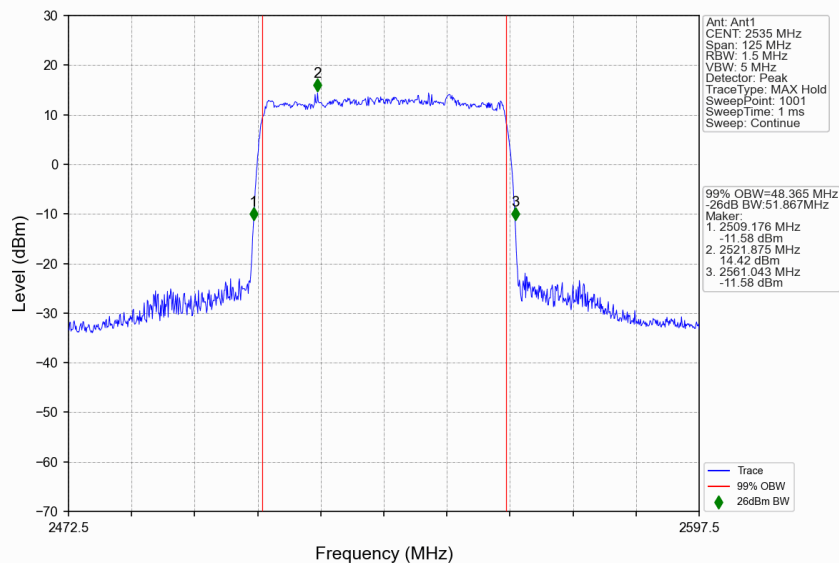
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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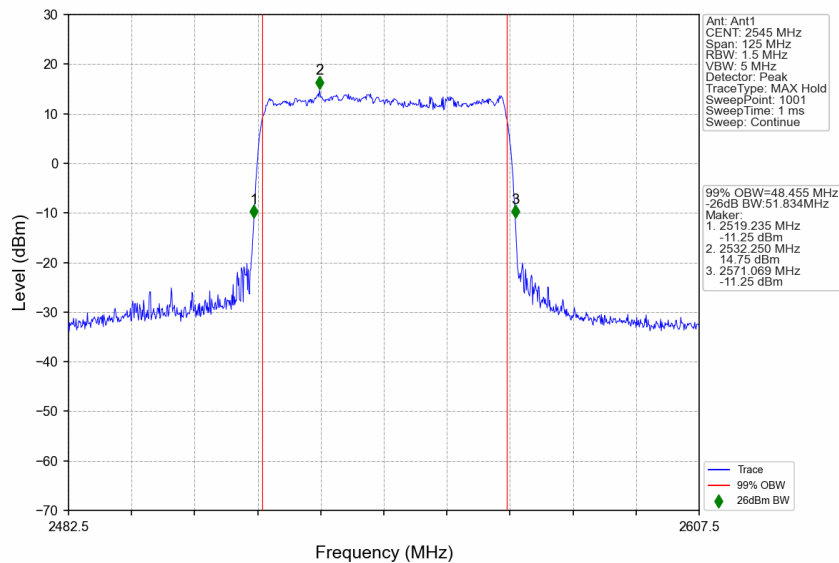
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4.9 30k_SISO_10MHz_NTNV

4.9.1 Test Result

5G NR n7 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	2505	Outer Full	8.71	9.68	/	Pass
	2535	Outer Full	8.73	9.68	/	Pass
	2565	Outer Full	8.72	9.52	/	Pass
DFT-s-OFDM QPSK	2505	Outer Full	8.70	9.58	/	Pass
	2535	Outer Full	8.69	9.53	/	Pass
	2565	Outer Full	8.71	9.64	/	Pass
DFT-s-OFDM 16 QAM	2505	Outer Full	8.69	9.62	/	Pass
	2535	Outer Full	8.68	9.54	/	Pass
	2565	Outer Full	8.69	9.57	/	Pass
DFT-s-OFDM 64 QAM	2505	Outer Full	8.71	9.58	/	Pass
	2535	Outer Full	8.71	9.64	/	Pass
	2565	Outer Full	8.71	9.65	/	Pass
DFT-s-OFDM 256 QAM	2505	Outer Full	8.66	9.55	/	Pass
	2535	Outer Full	8.65	9.51	/	Pass
	2565	Outer Full	8.66	9.57	/	Pass
CP-OFDM QPSK	2505	Outer Full	8.74	11.71	/	Pass
	2535	Outer Full	8.72	9.91	/	Pass
	2565	Outer Full	8.72	10.37	/	Pass
CP-OFDM 16 QAM	2505	Outer Full	8.70	9.94	/	Pass
	2535	Outer Full	8.69	9.68	/	Pass
	2565	Outer Full	8.70	9.79	/	Pass
CP-OFDM 64 QAM	2505	Outer Full	8.70	11.60	/	Pass
	2535	Outer Full	8.70	11.64	/	Pass
	2565	Outer Full	8.68	10.36	/	Pass
CP-OFDM 256 QAM	2505	Outer Full	8.72	9.64	/	Pass
	2535	Outer Full	8.72	9.61	/	Pass
	2565	Outer Full	8.72	9.62	/	Pass



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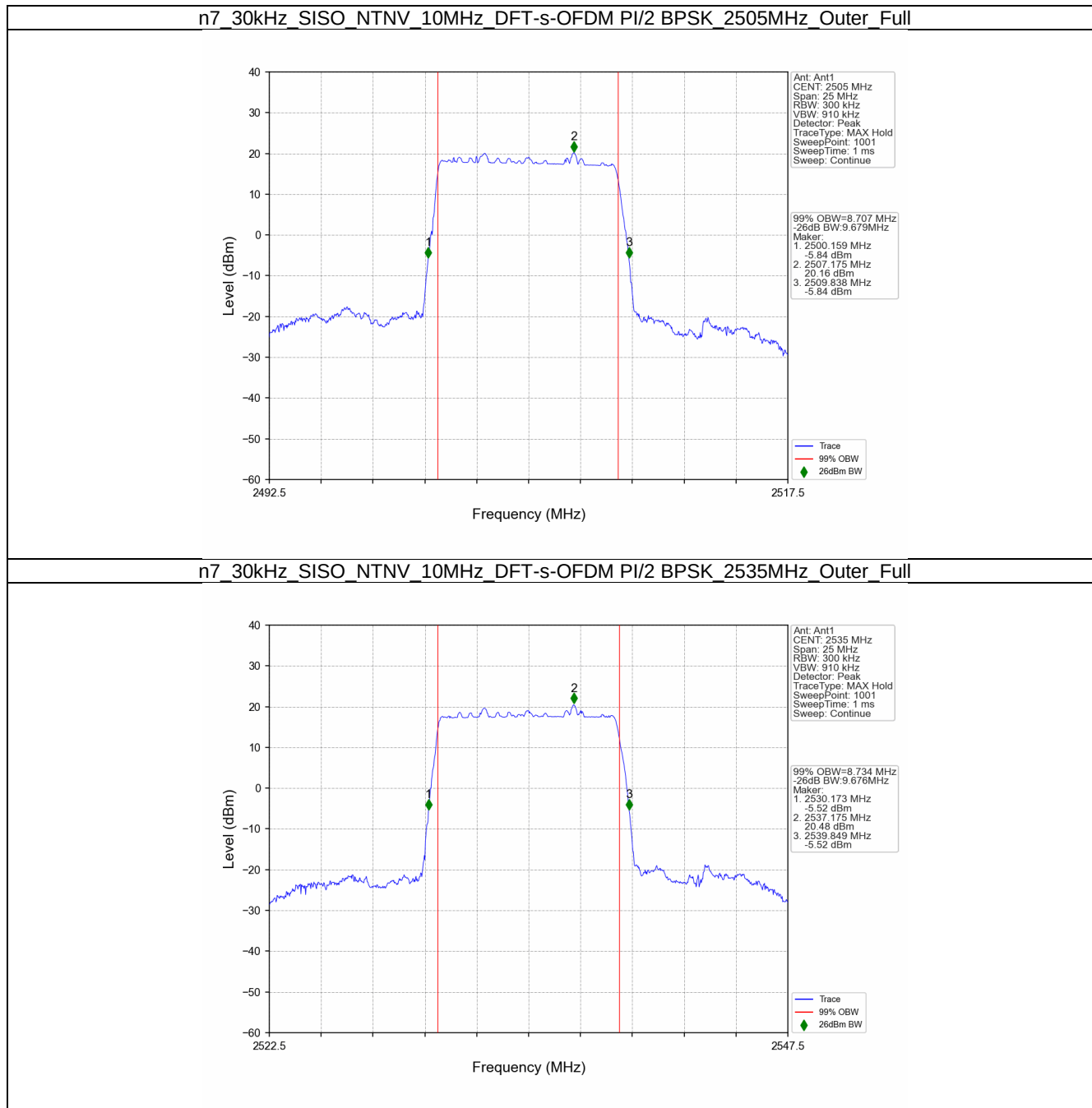
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4.9.2 Test Graph



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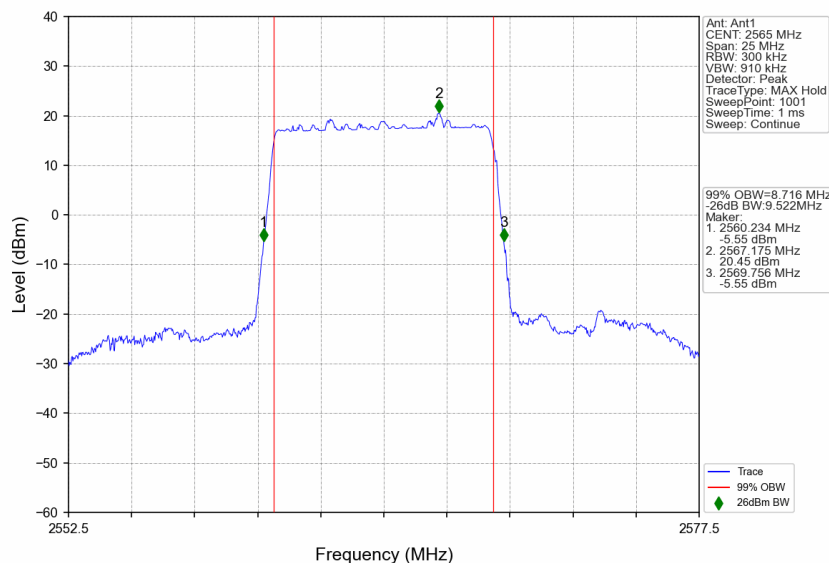
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Report No.: SEWM2311000456RG02

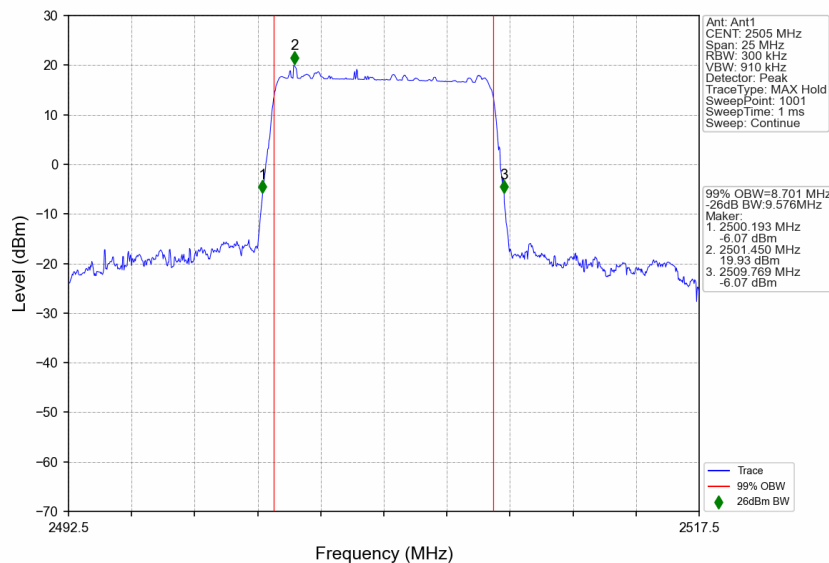
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full



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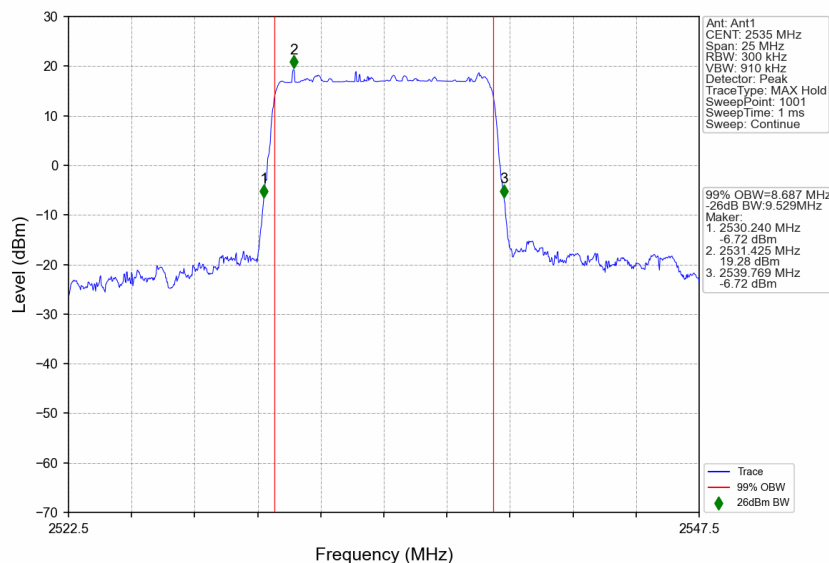
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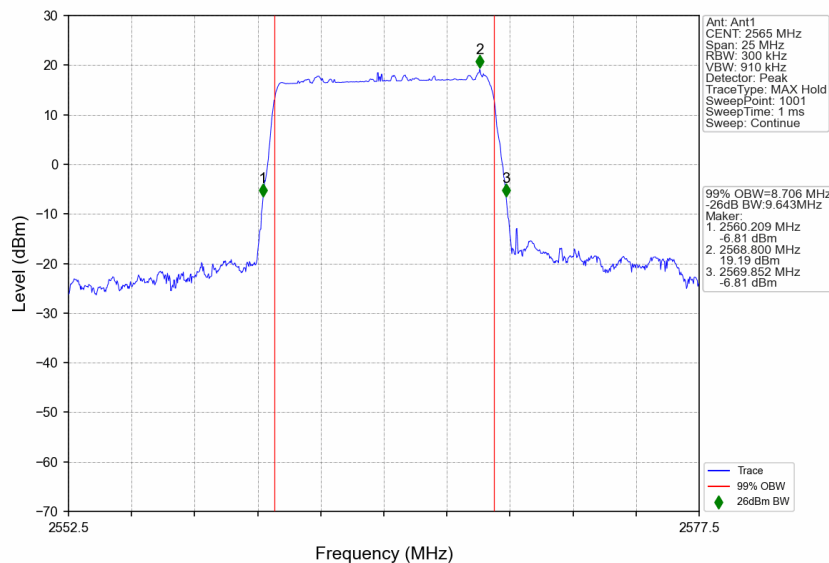
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2565MHz_Outer_Full



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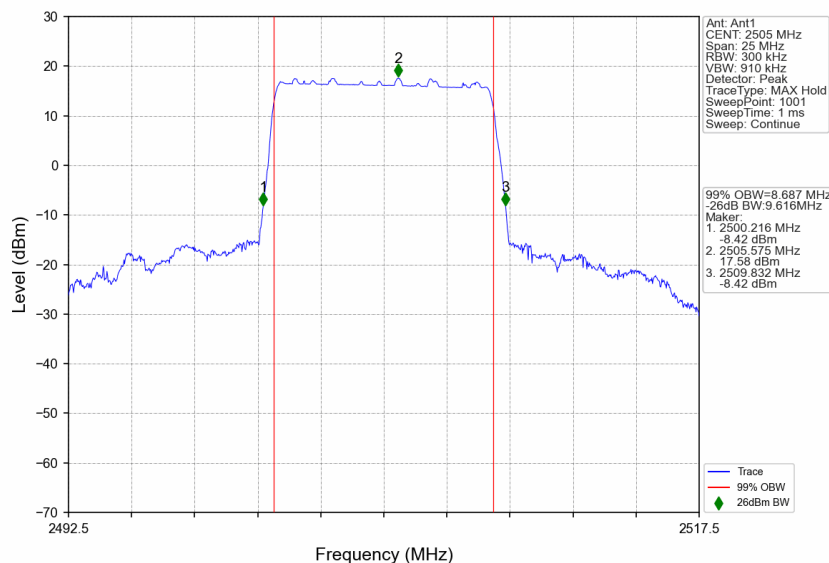
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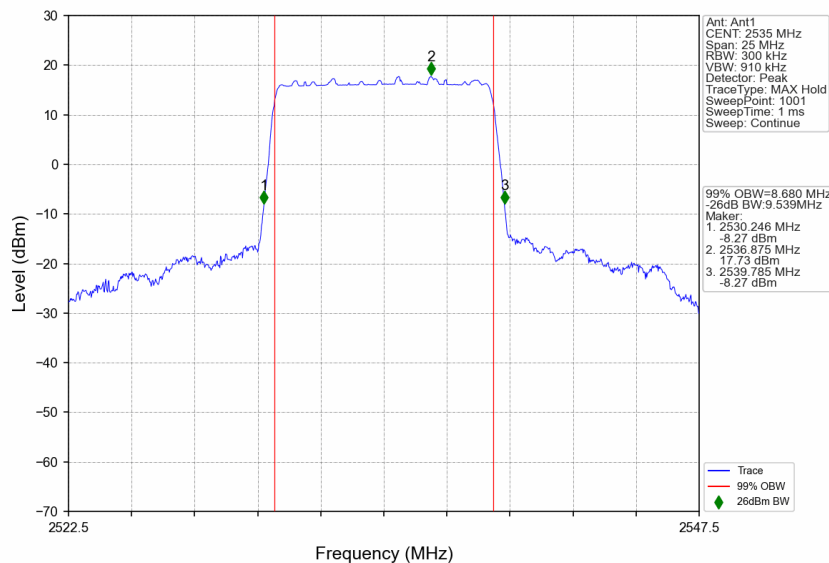
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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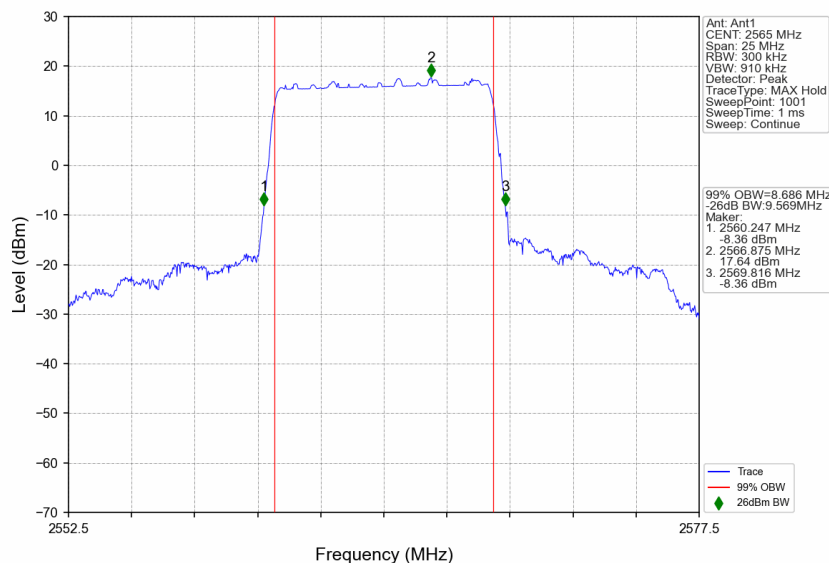
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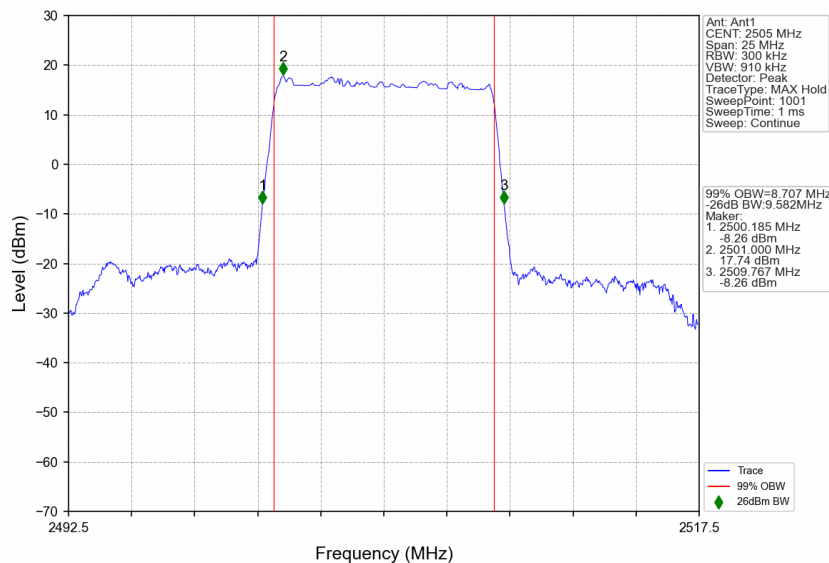
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2505MHz_Outer_Full



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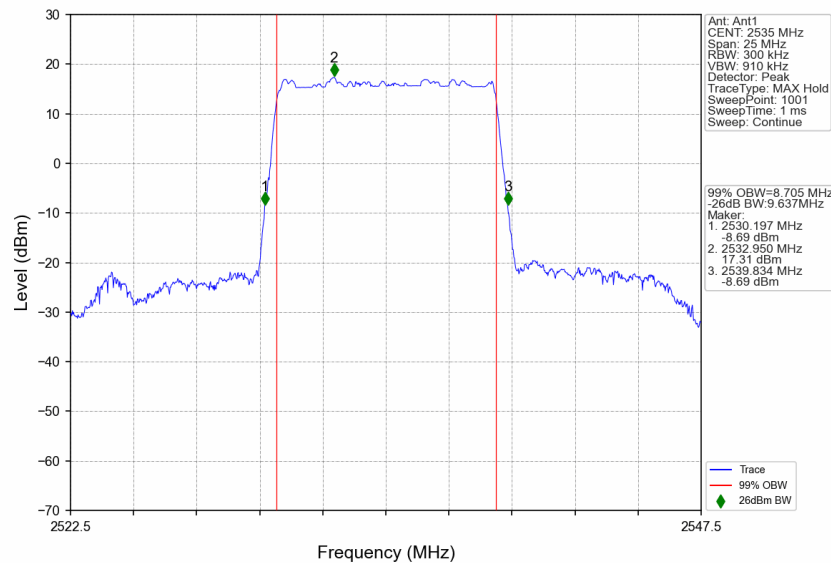
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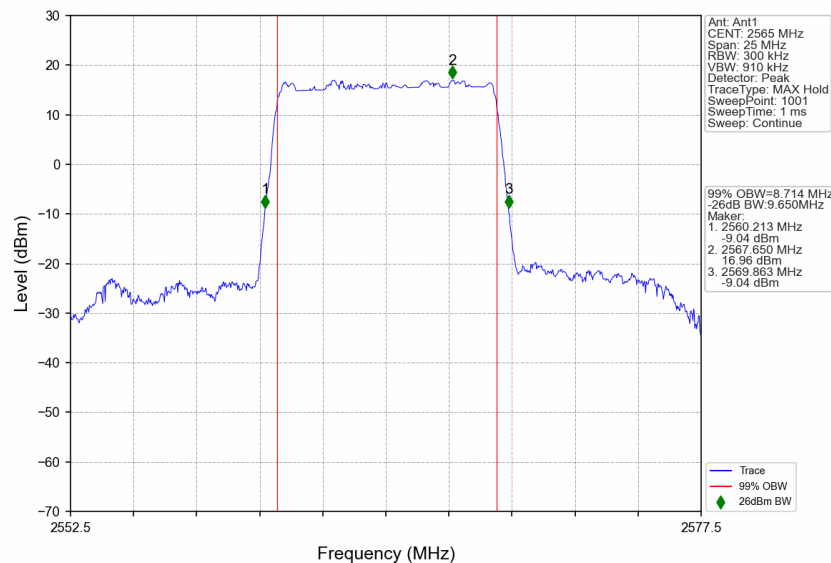
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2565MHz_Outer_Full



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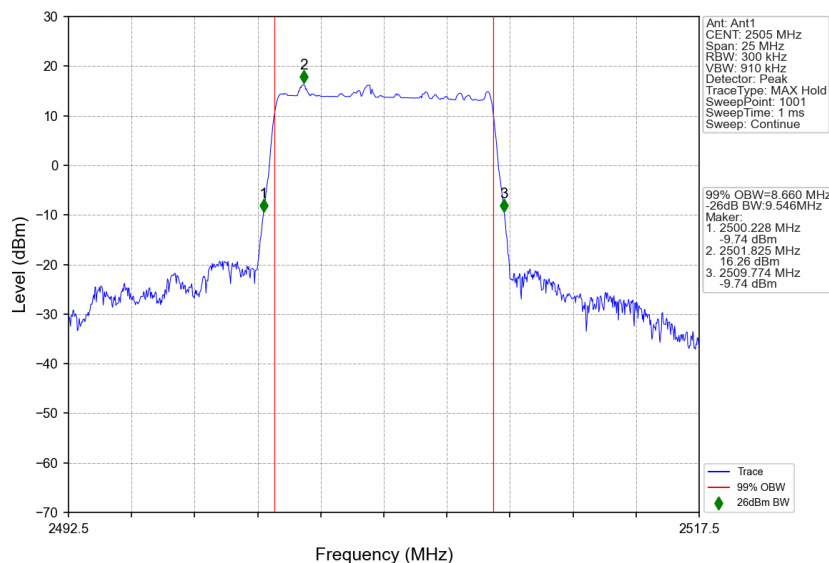
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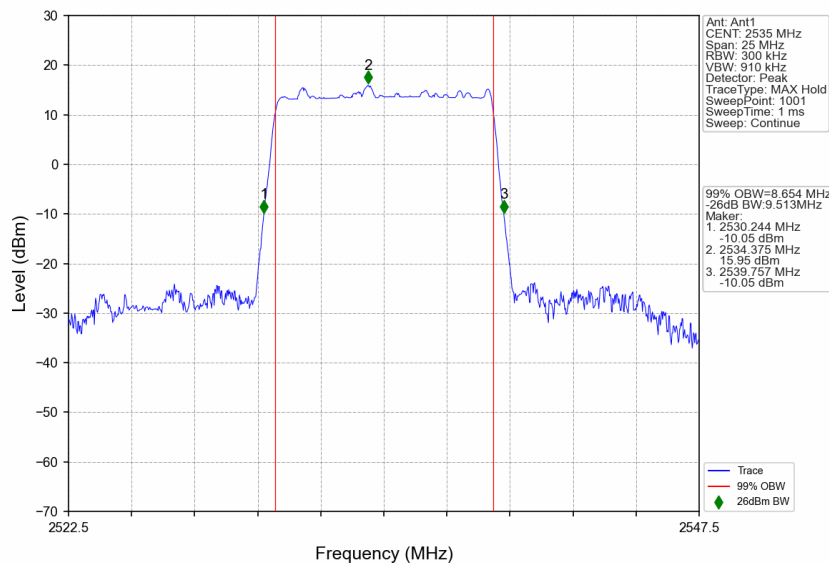
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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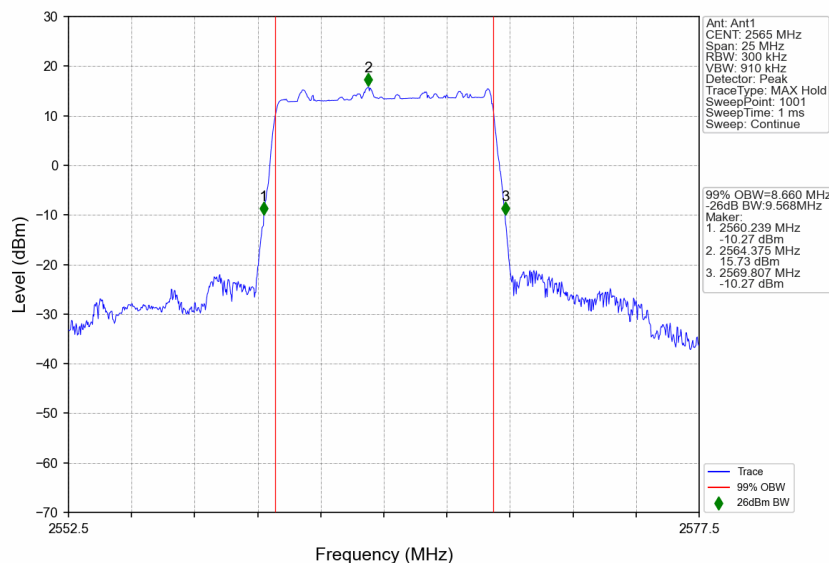
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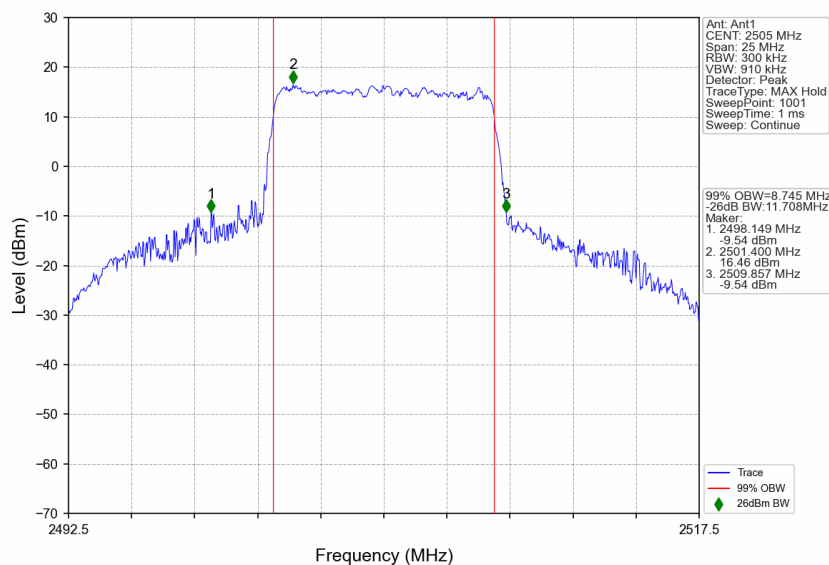
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256 QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2505MHz_Outer_Full



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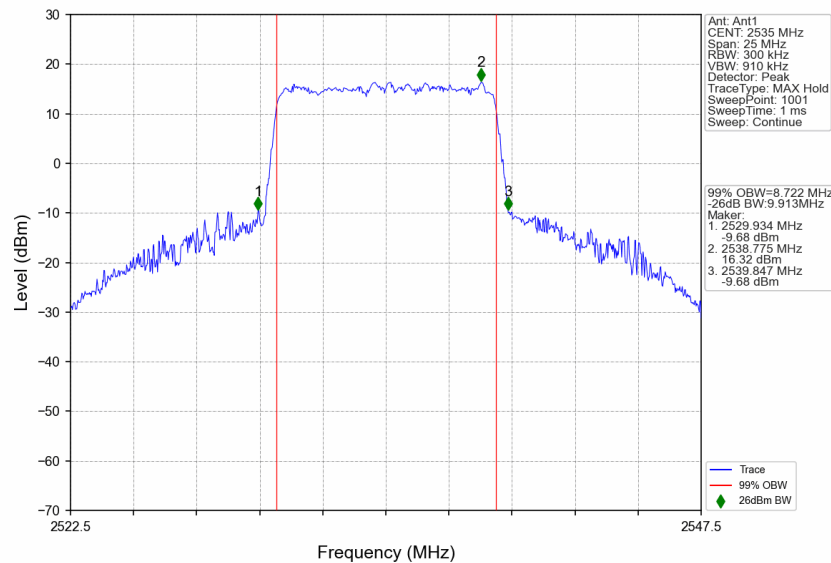
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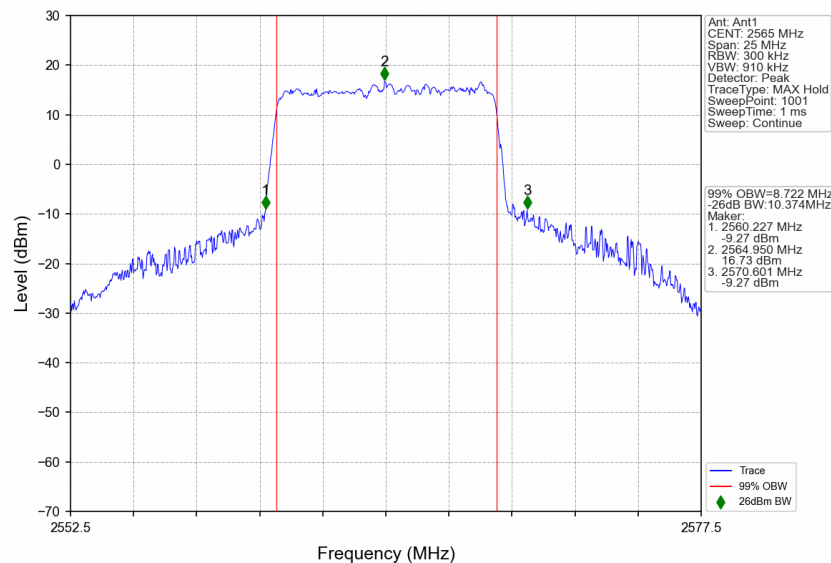
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



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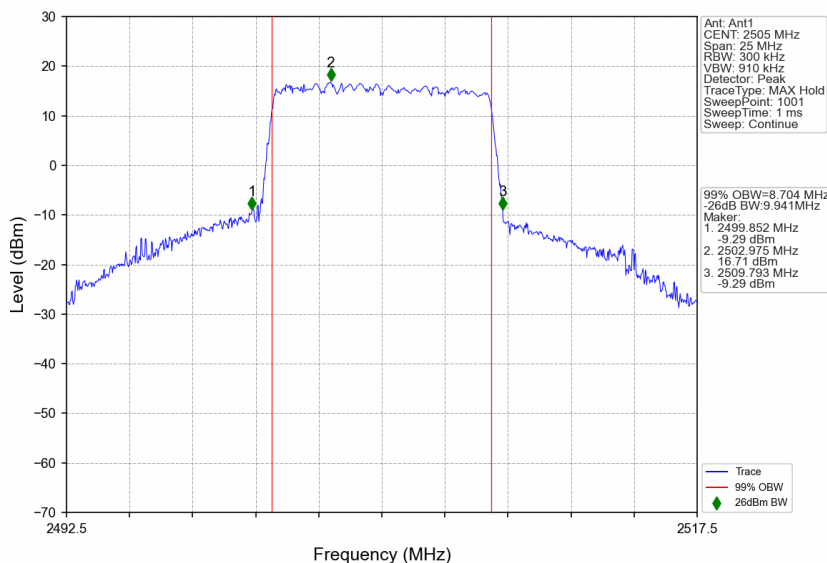
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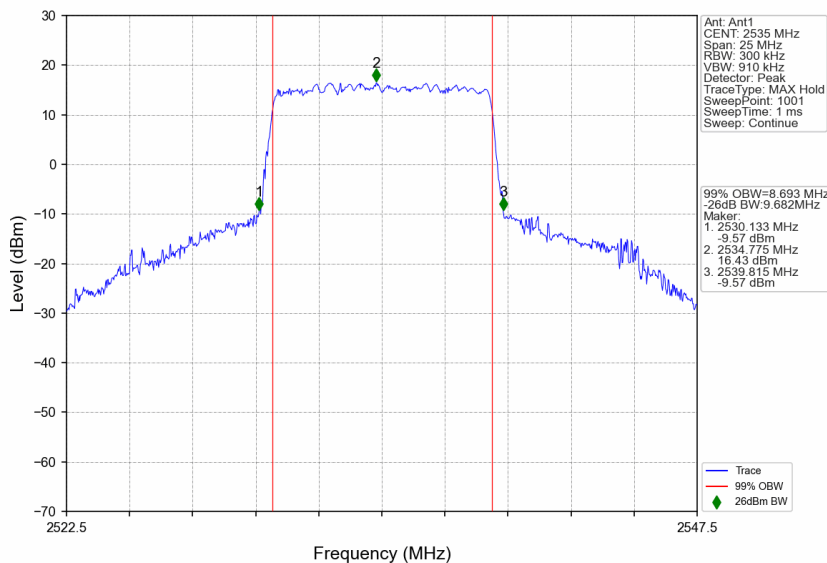
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 2535MHz_Outer_Full



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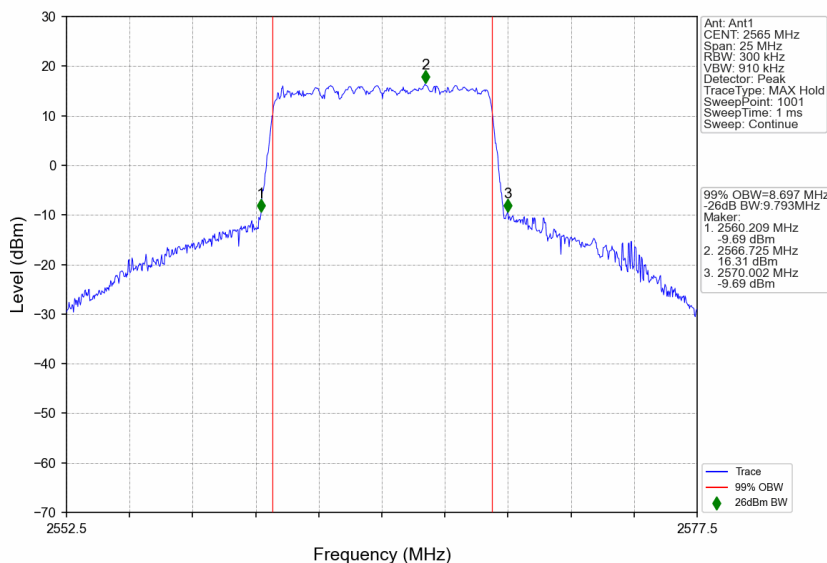
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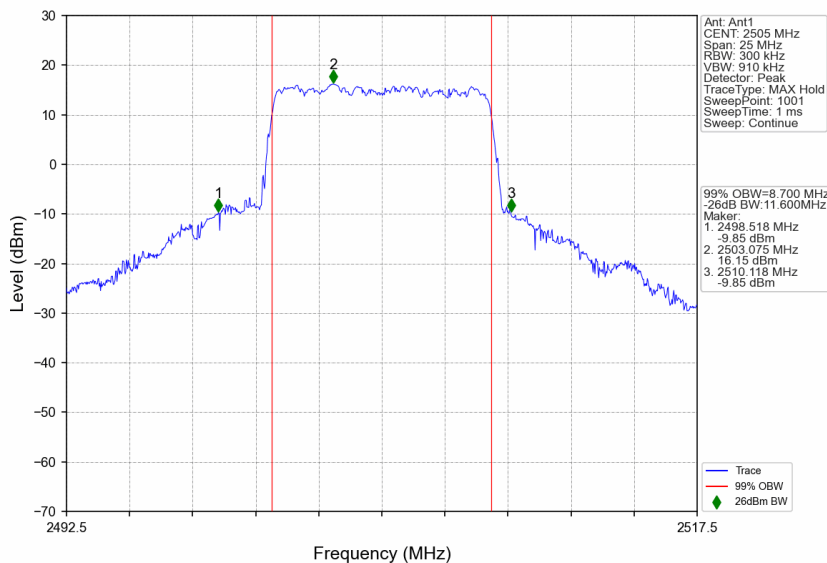
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM 2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM 2505MHz_Outer_Full



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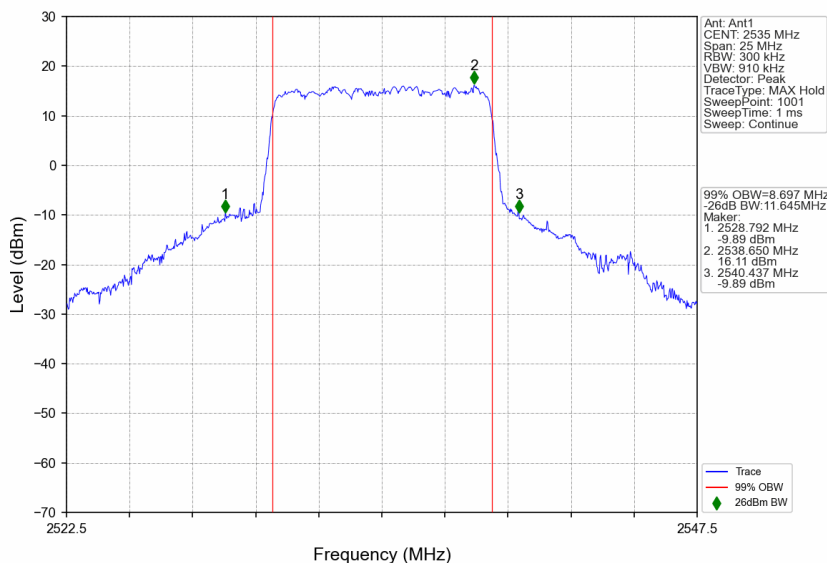
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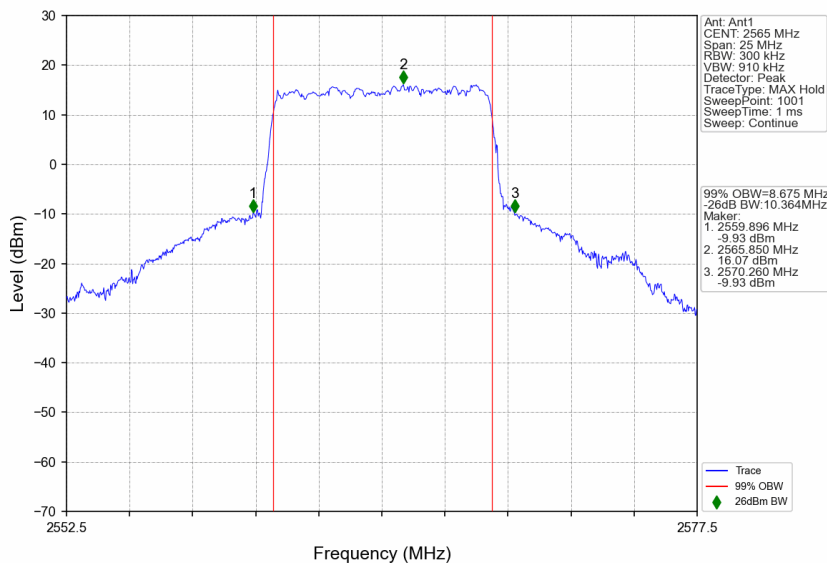
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM 2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM 2565MHz_Outer_Full



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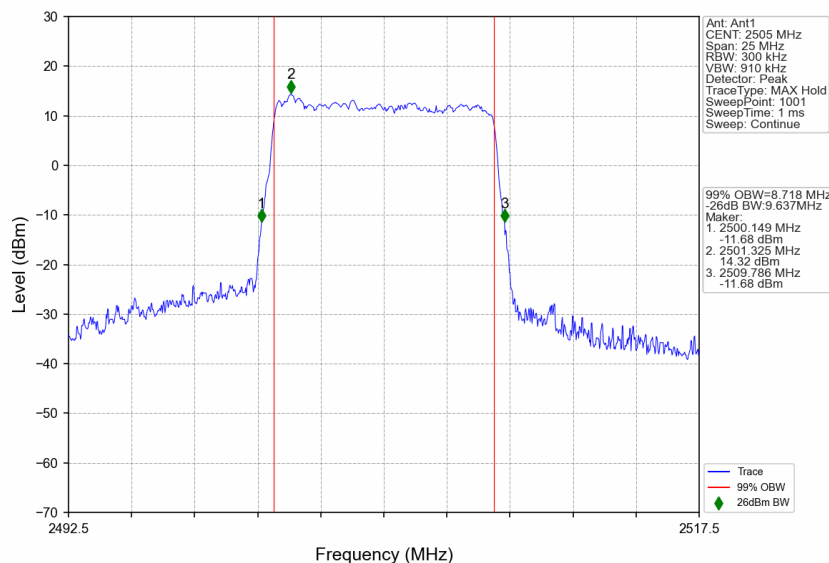
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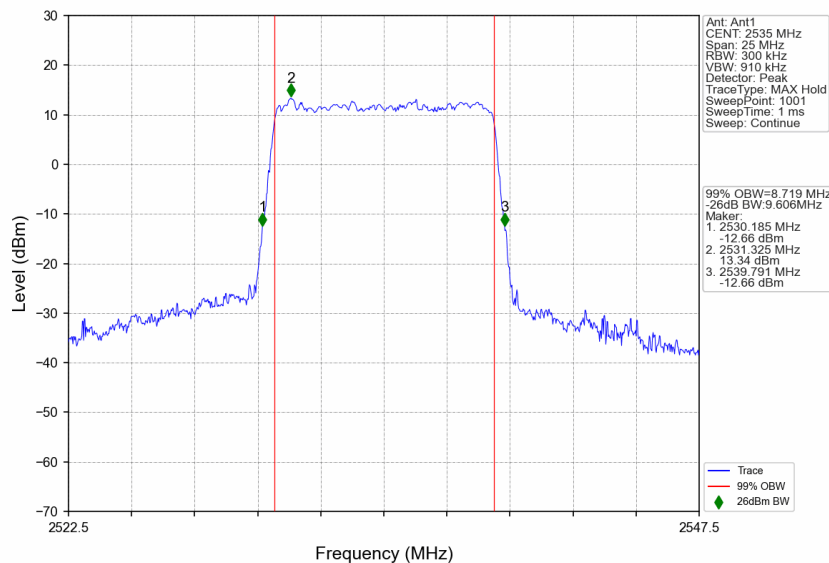
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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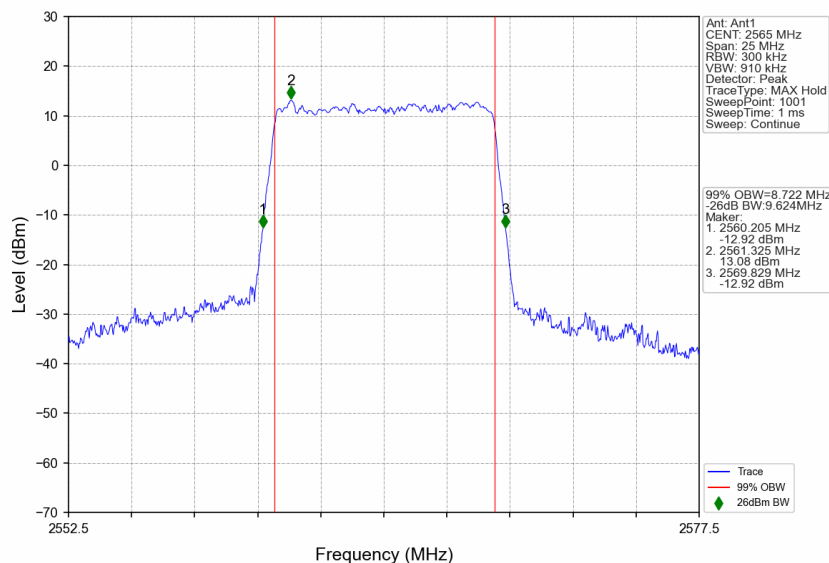
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4.10 30k_SISO_15MHz_NTNV

4.10.1 Test Result

5G NR n7 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	2507.5	Outer Full	13.14	14.19	/	Pass
	2535	Outer Full	13.12	14.21	/	Pass
	2562.5	Outer Full	13.14	14.21	/	Pass
DFT-s-OFDM QPSK	2507.5	Outer Full	13.09	14.20	/	Pass
	2535	Outer Full	13.08	14.24	/	Pass
	2562.5	Outer Full	13.09	14.27	/	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer Full	13.02	14.18	/	Pass
	2535	Outer Full	13.00	14.18	/	Pass
	2562.5	Outer Full	13.02	14.21	/	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer Full	13.12	14.27	/	Pass
	2535	Outer Full	13.11	14.21	/	Pass
	2562.5	Outer Full	13.12	14.24	/	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer Full	13.00	14.18	/	Pass
	2535	Outer Full	12.99	14.15	/	Pass
	2562.5	Outer Full	13.01	14.21	/	Pass
CP-OFDM QPSK	2507.5	Outer Full	13.75	18.15	/	Pass
	2535	Outer Full	13.72	17.18	/	Pass
	2562.5	Outer Full	13.73	17.48	/	Pass
CP-OFDM 16 QAM	2507.5	Outer Full	13.79	18.47	/	Pass
	2535	Outer Full	13.76	18.61	/	Pass
	2562.5	Outer Full	13.78	17.43	/	Pass
CP-OFDM 64 QAM	2507.5	Outer Full	13.84	18.18	/	Pass
	2535	Outer Full	13.80	15.22	/	Pass
	2562.5	Outer Full	13.80	15.37	/	Pass
CP-OFDM 256 QAM	2507.5	Outer Full	13.74	14.94	/	Pass
	2535	Outer Full	13.71	14.87	/	Pass
	2562.5	Outer Full	13.73	14.98	/	Pass



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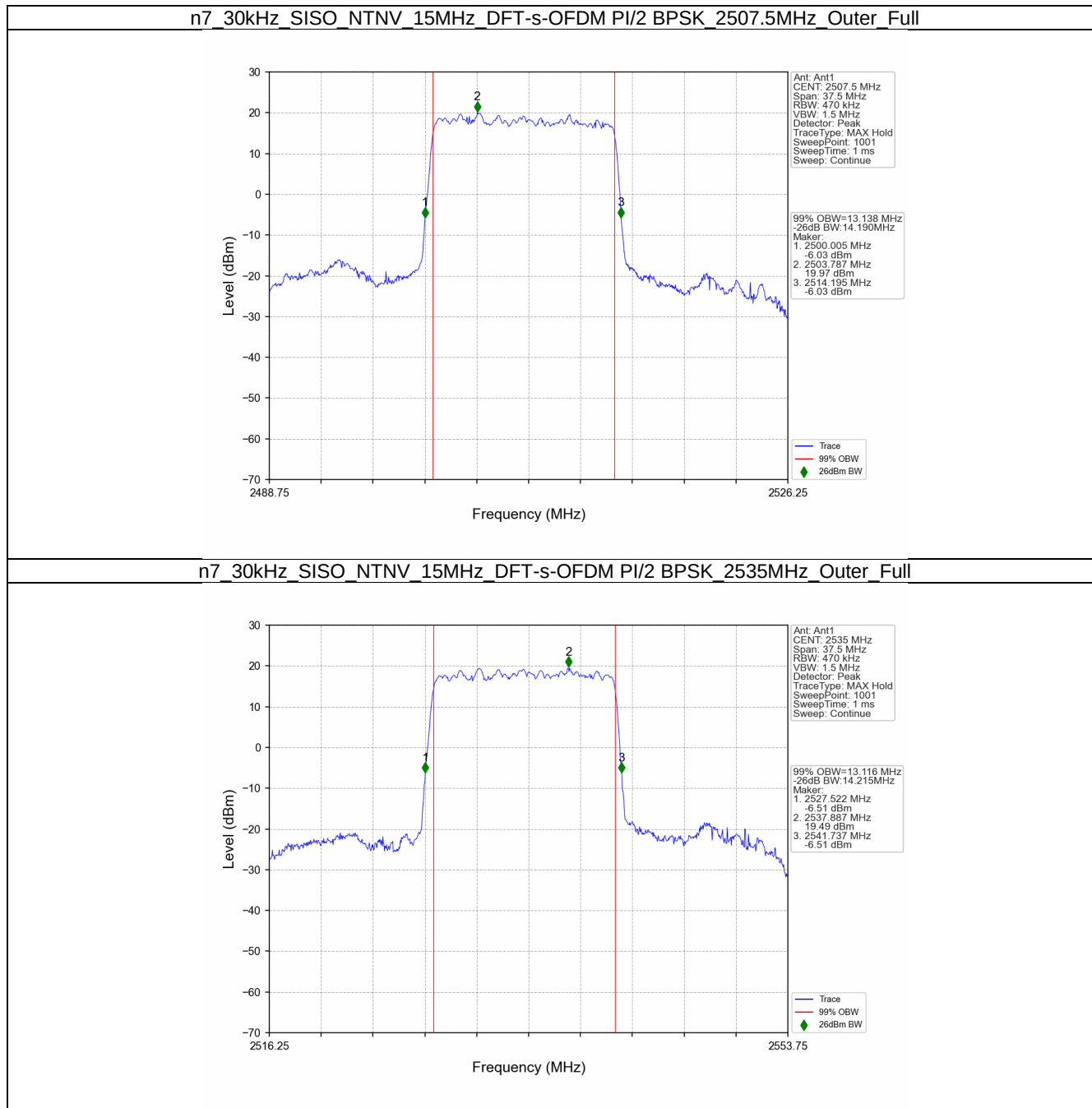
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4.10.2 Test Graph



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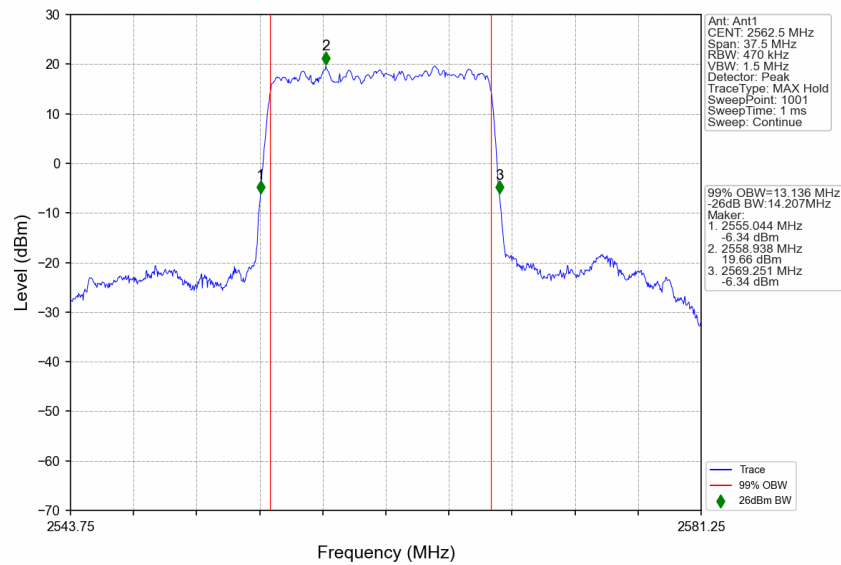
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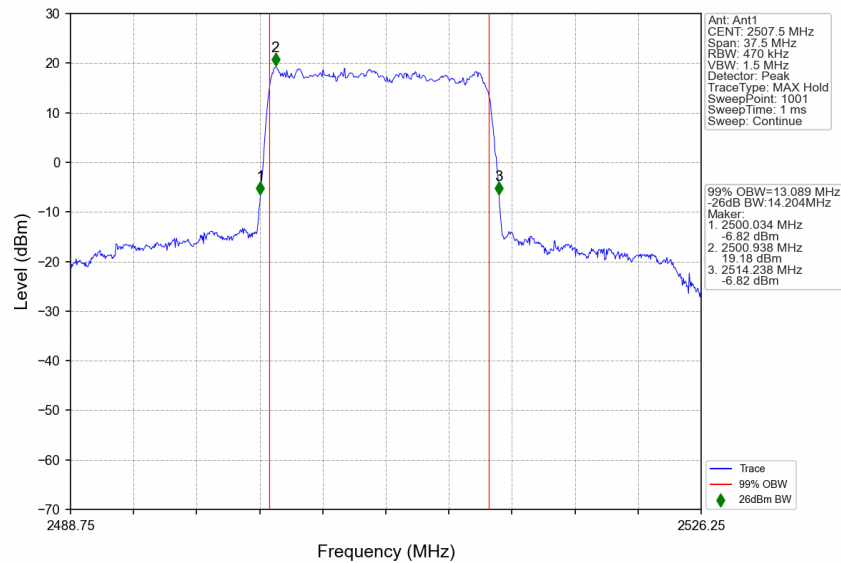
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2507.5MHz_Outer_Full



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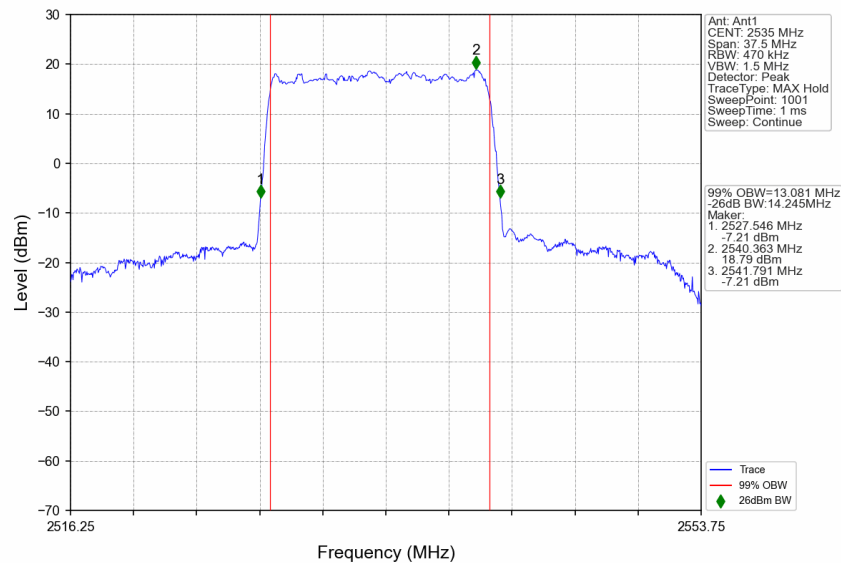
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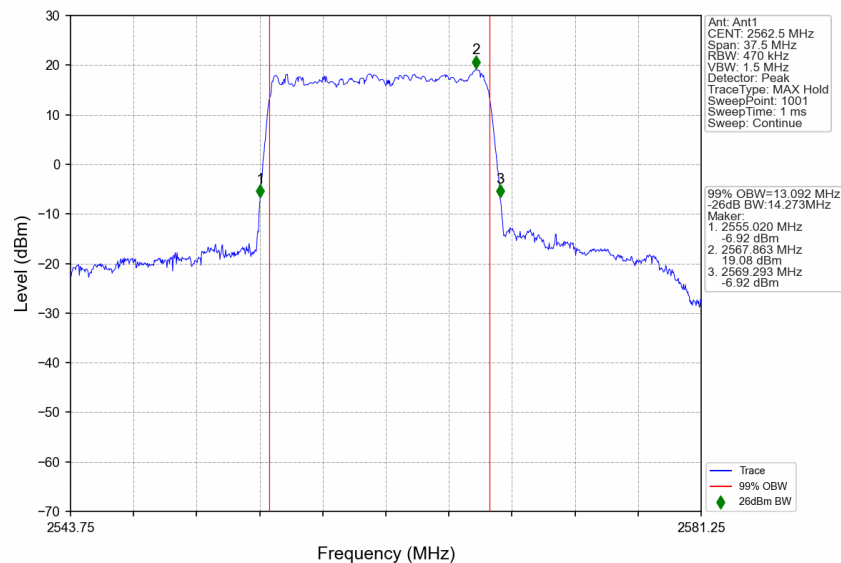
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2562.5MHz_Outer_Full



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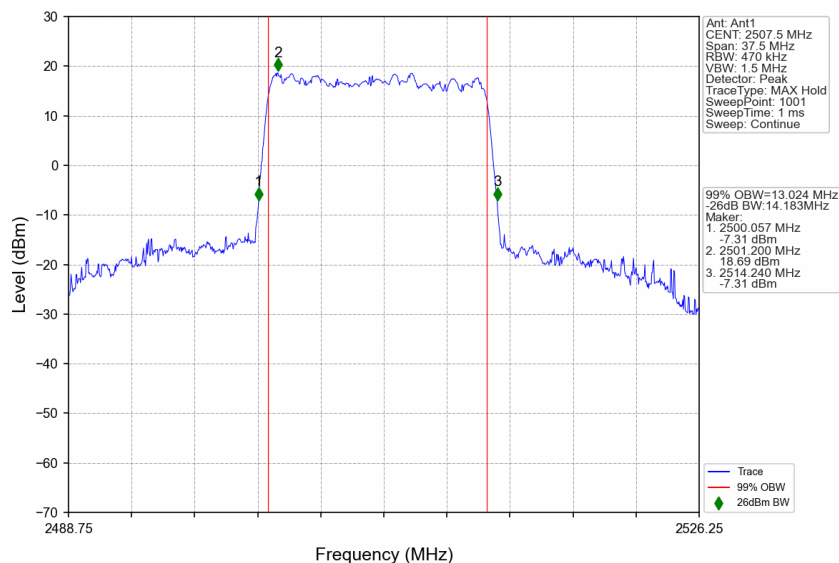
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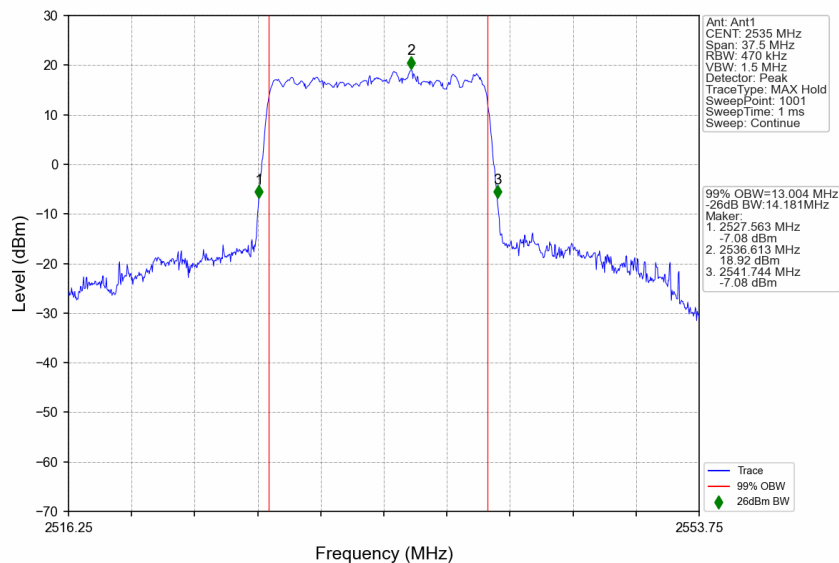
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2507.5MHz_Outer_Full



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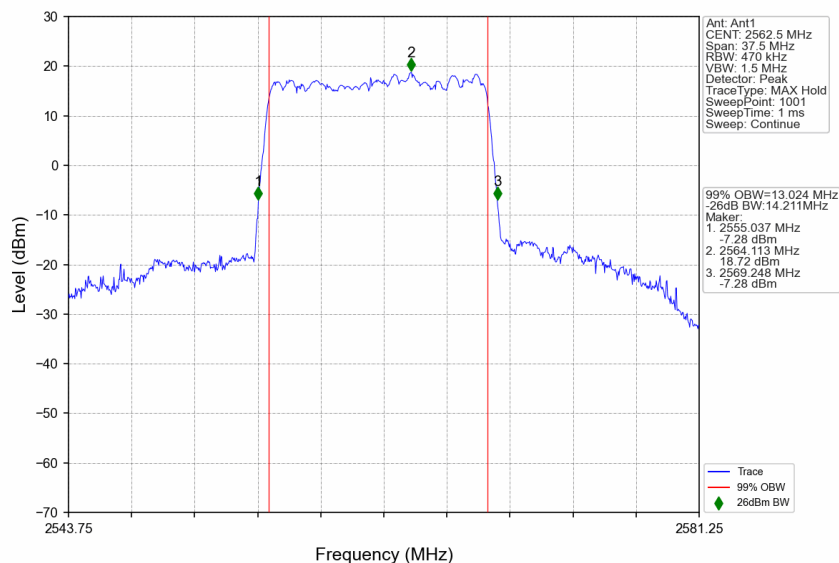
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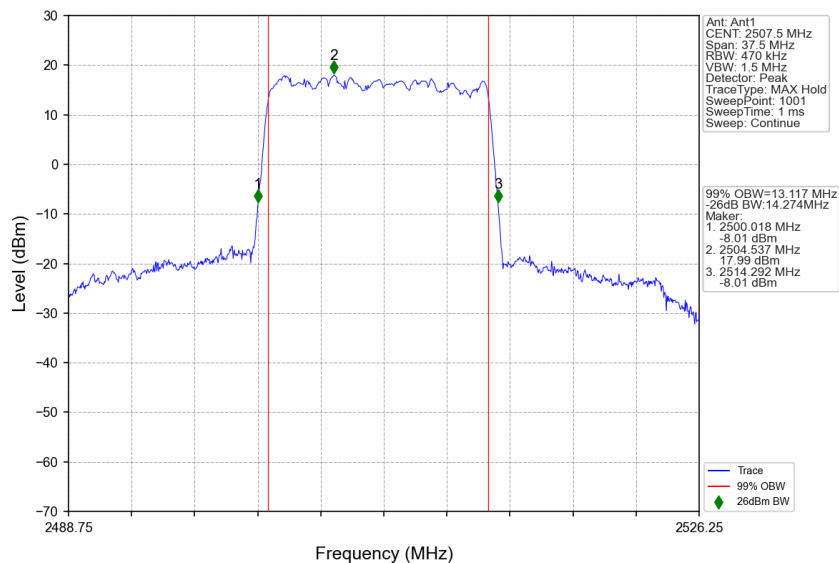
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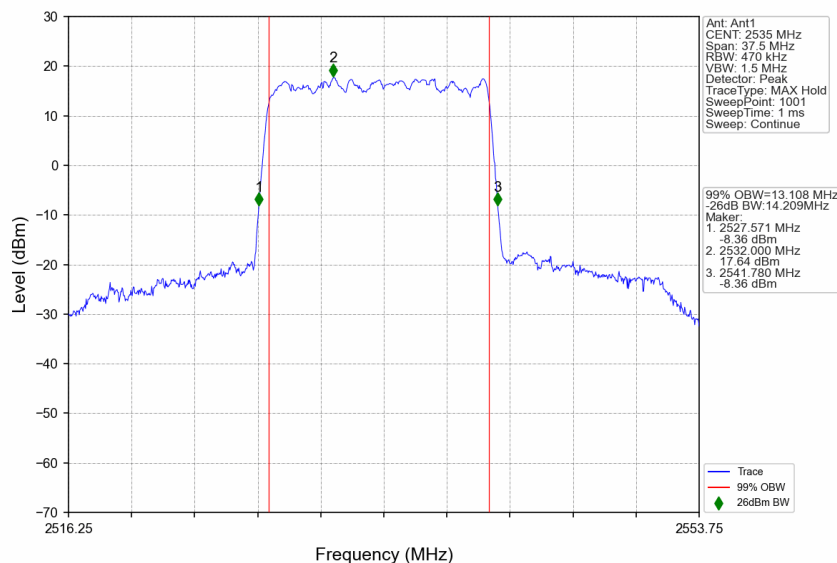
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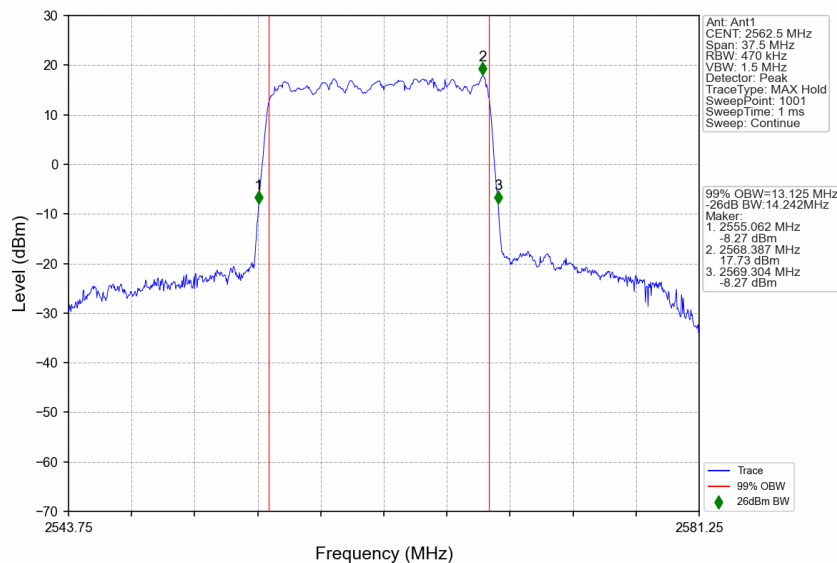
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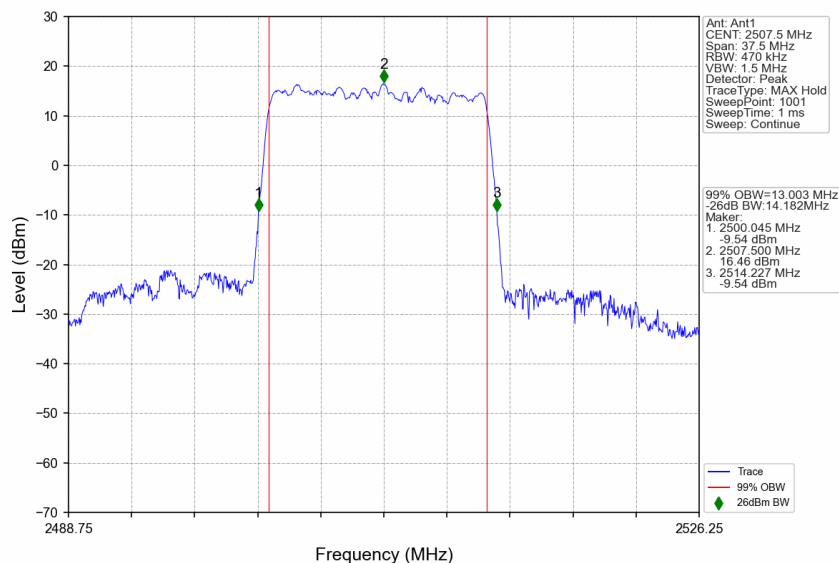
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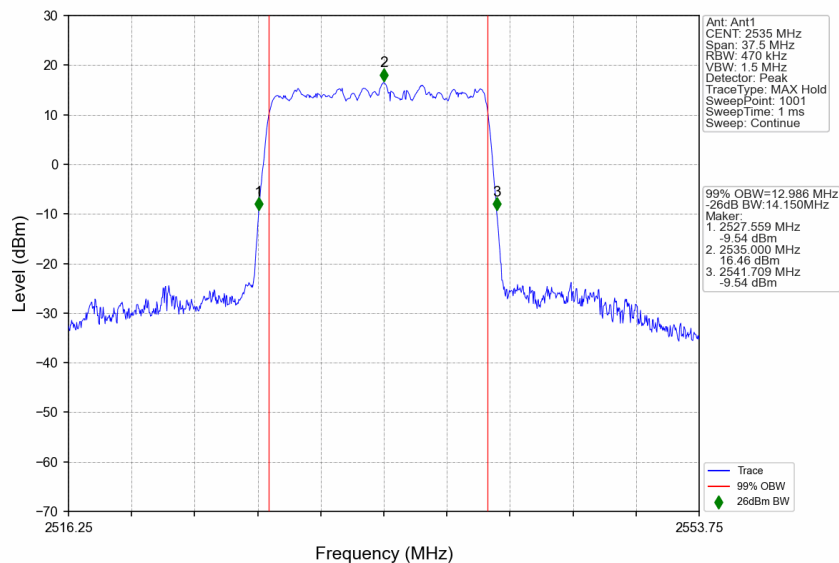
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2507.5MHz_Outer_Full



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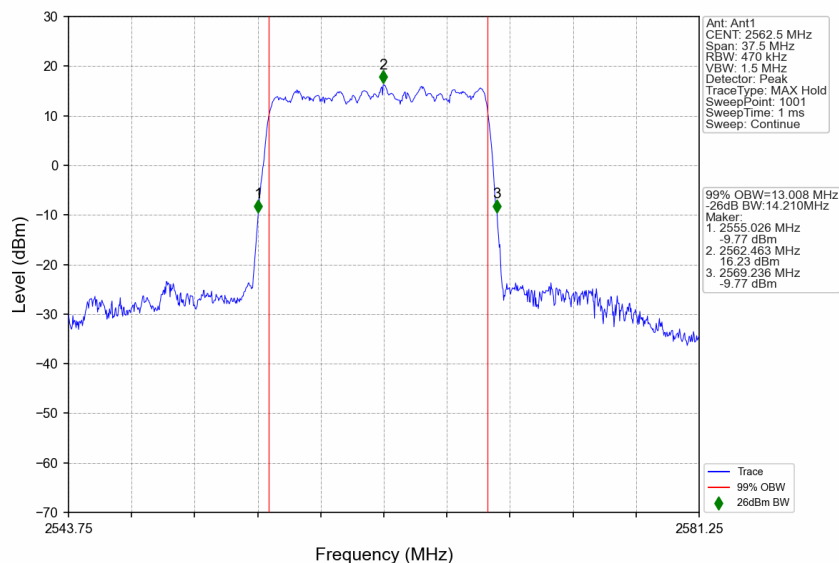
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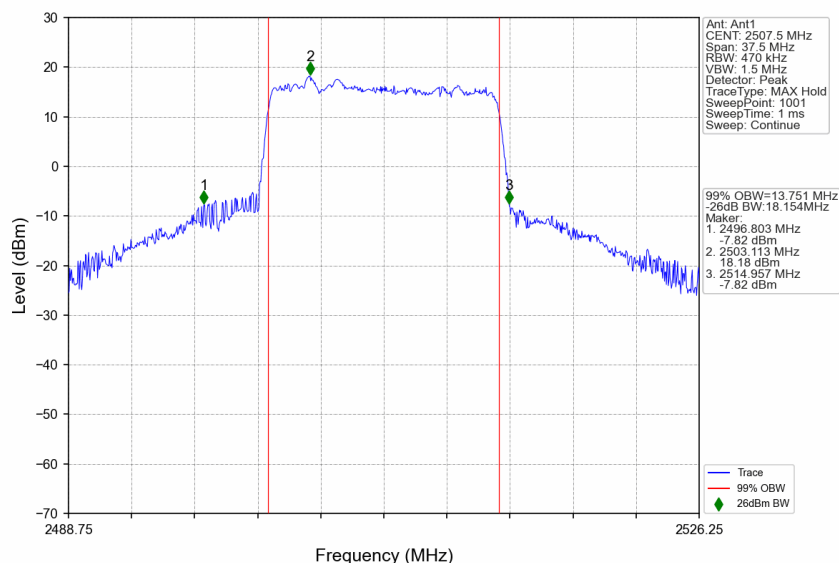
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2507.5MHz_Outer_Full



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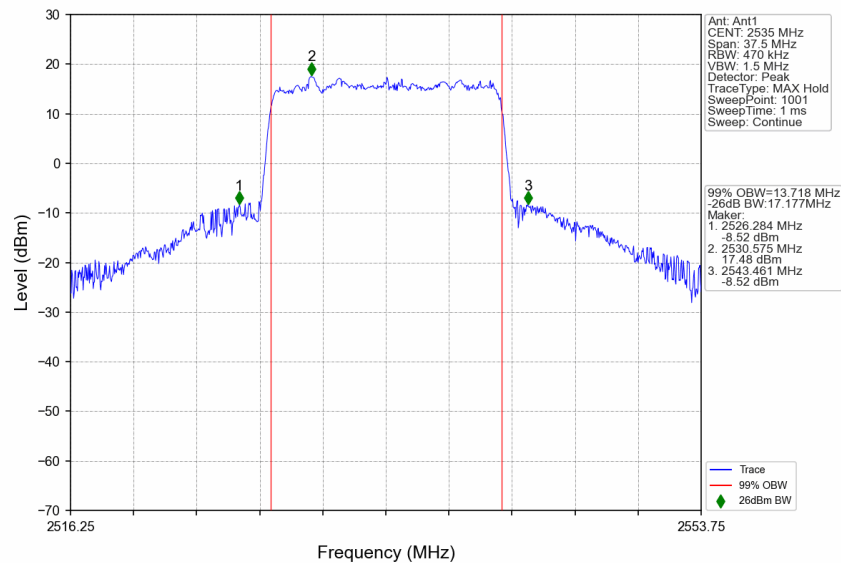
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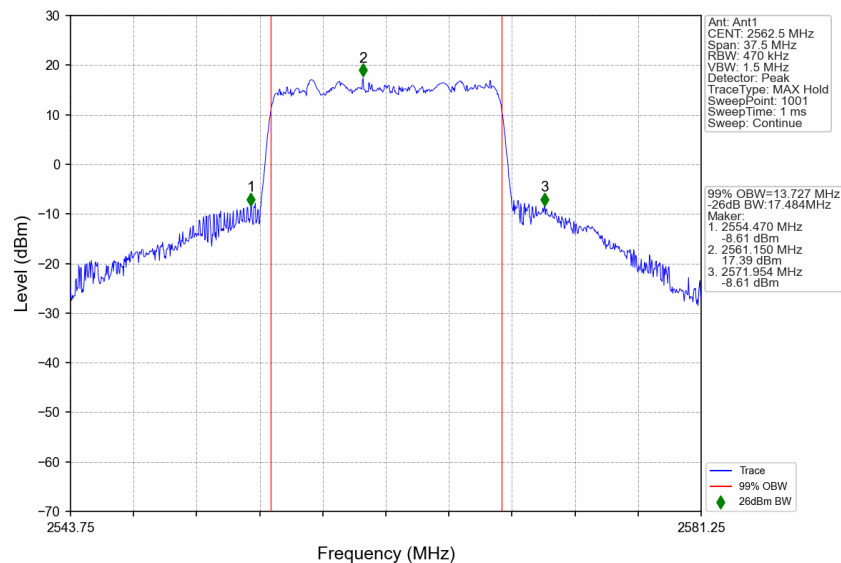
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2562.5MHz_Outer_Full



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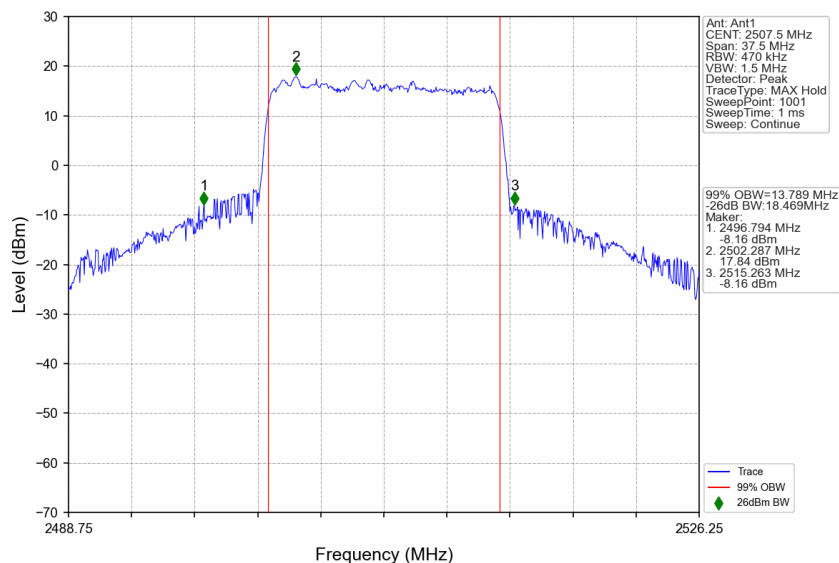
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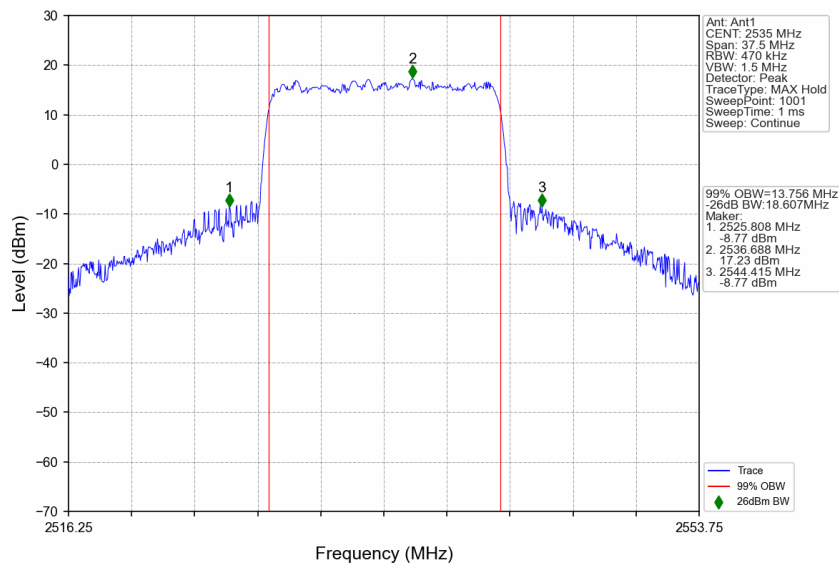
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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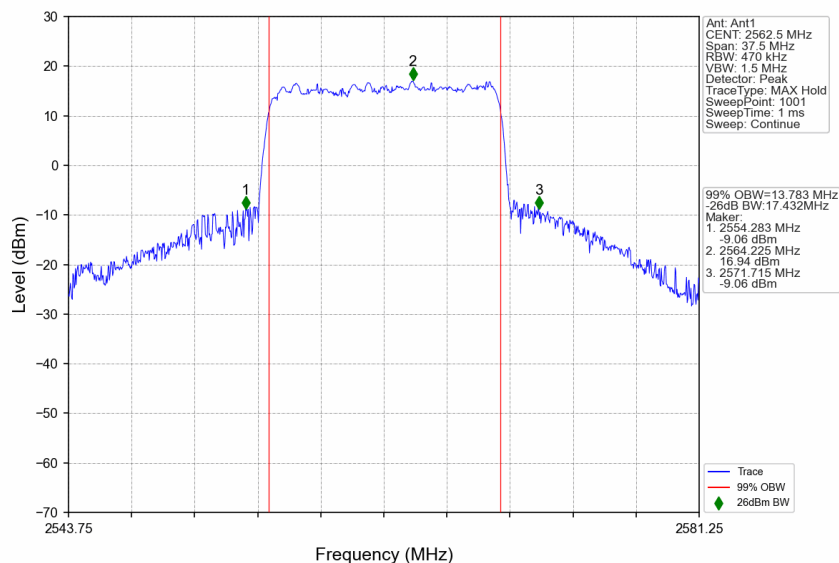
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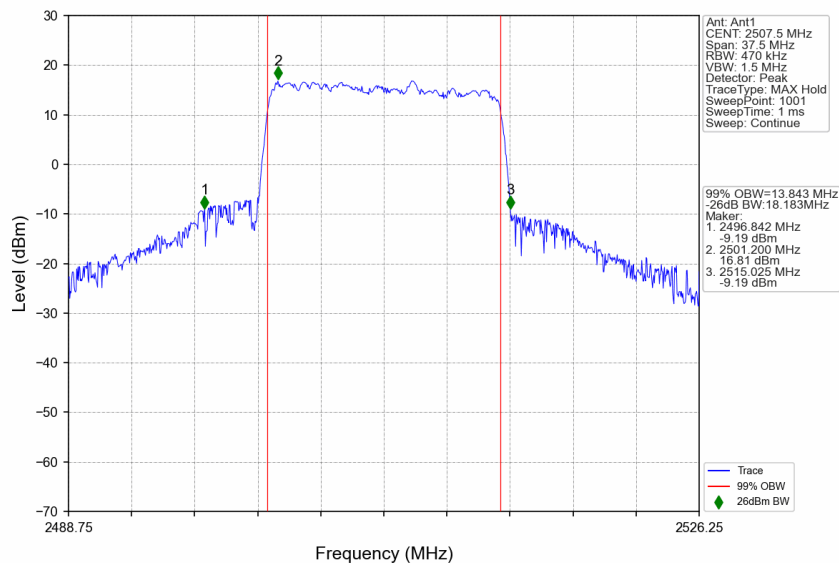
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2507.5MHz_Outer_Full



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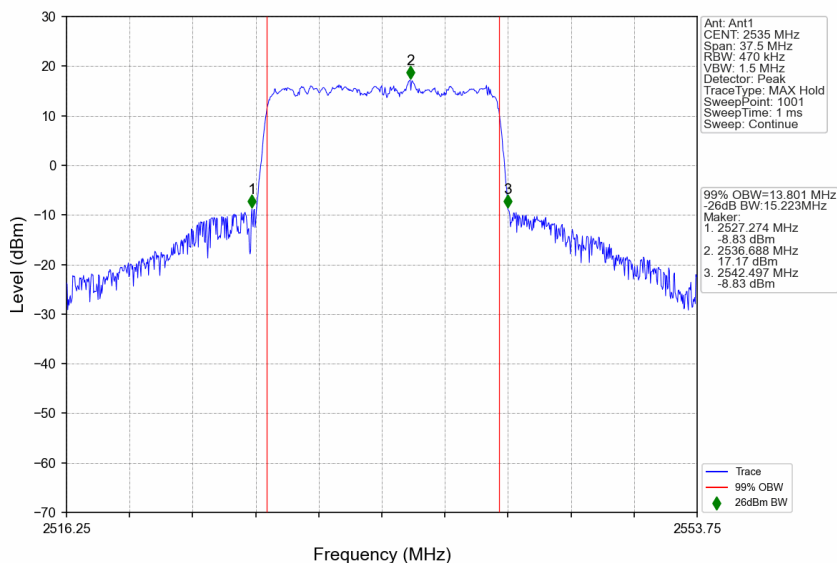
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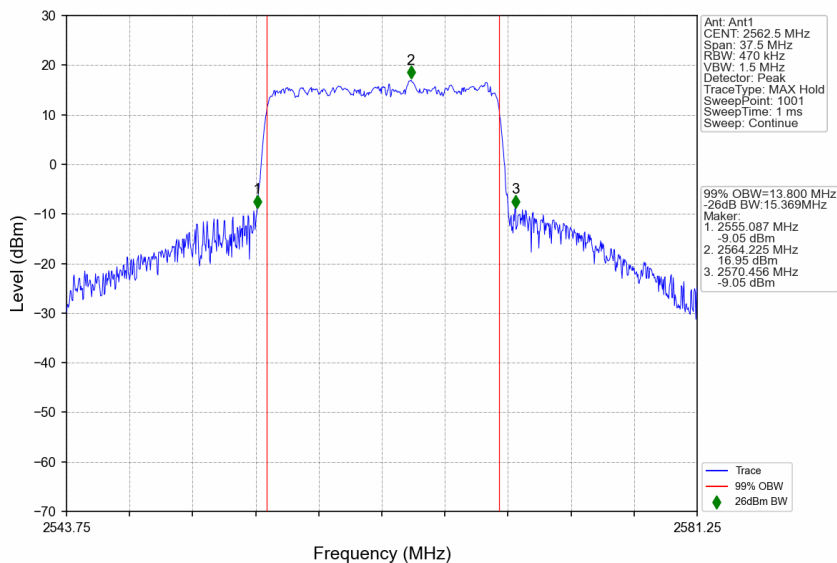
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM 2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM 2562.5MHz_Outer_Full



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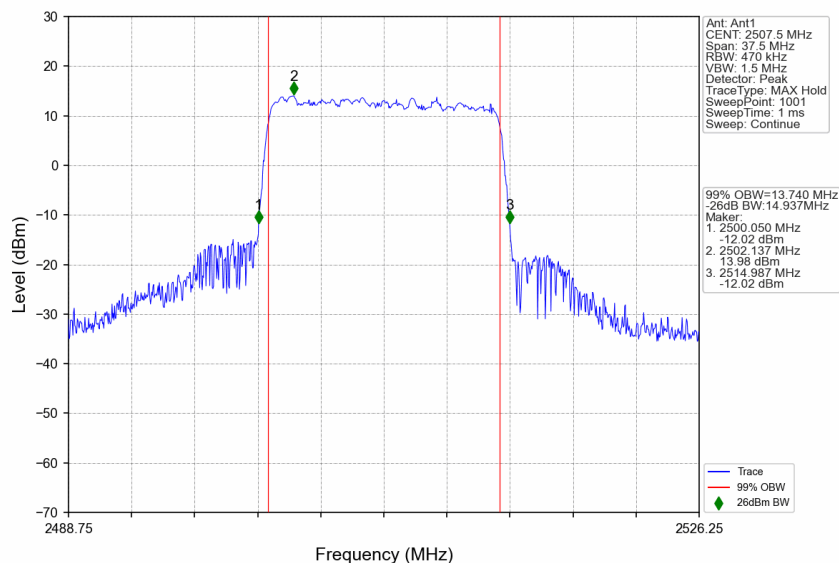
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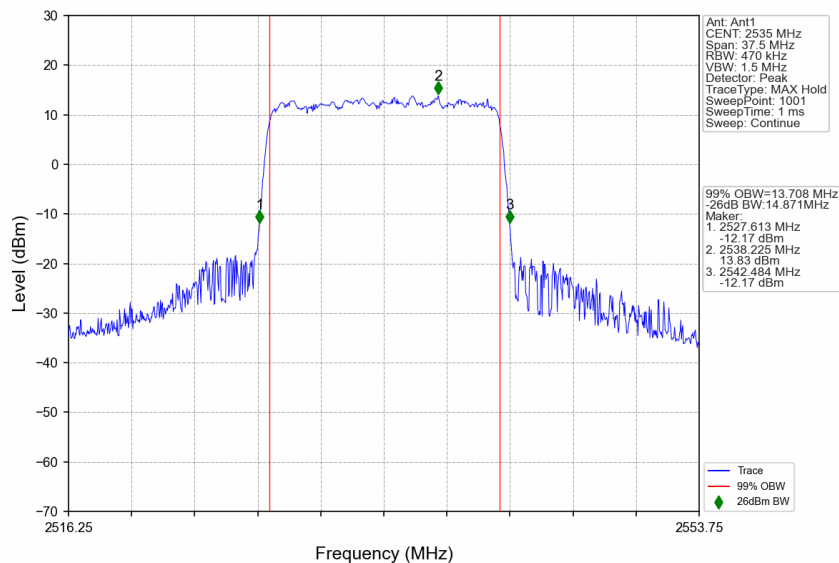
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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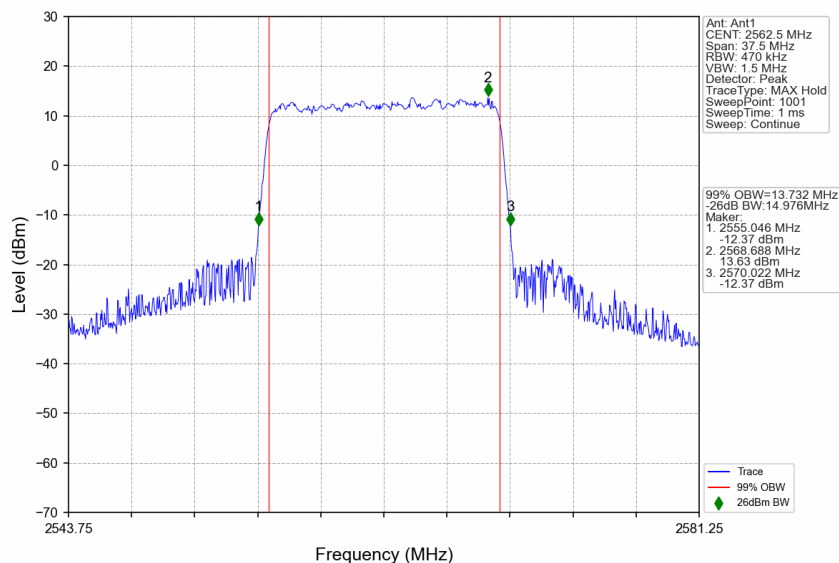
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4.11 30k_SISO_20MHz_NTNV

4.11.1 Test Result

5G NR n7 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	2510	Outer Full	18.23	19.55	/	Pass
	2535	Outer Full	18.20	19.55	/	Pass
	2560	Outer Full	18.24	19.55	/	Pass
DFT-s-OFDM QPSK	2510	Outer Full	18.07	19.43	/	Pass
	2535	Outer Full	18.04	19.42	/	Pass
	2560	Outer Full	18.10	19.39	/	Pass
DFT-s-OFDM 16 QAM	2510	Outer Full	18.06	19.46	/	Pass
	2535	Outer Full	18.01	19.40	/	Pass
	2560	Outer Full	18.07	19.43	/	Pass
DFT-s-OFDM 64 QAM	2510	Outer Full	18.15	19.48	/	Pass
	2535	Outer Full	18.10	19.52	/	Pass
	2560	Outer Full	18.15	19.54	/	Pass
DFT-s-OFDM 256 QAM	2510	Outer Full	18.05	19.40	/	Pass
	2535	Outer Full	17.99	19.39	/	Pass
	2560	Outer Full	18.06	19.42	/	Pass
CP-OFDM QPSK	2510	Outer Full	18.45	24.08	/	Pass
	2535	Outer Full	18.37	21.82	/	Pass
	2560	Outer Full	18.45	20.91	/	Pass
CP-OFDM 16 QAM	2510	Outer Full	18.51	22.01	/	Pass
	2535	Outer Full	18.43	20.37	/	Pass
	2560	Outer Full	18.50	21.36	/	Pass
CP-OFDM 64 QAM	2510	Outer Full	18.47	19.87	/	Pass
	2535	Outer Full	18.39	19.86	/	Pass
	2560	Outer Full	18.47	20.59	/	Pass
CP-OFDM 256 QAM	2510	Outer Full	18.38	19.75	/	Pass
	2535	Outer Full	18.34	19.74	/	Pass
	2560	Outer Full	18.41	19.80	/	Pass



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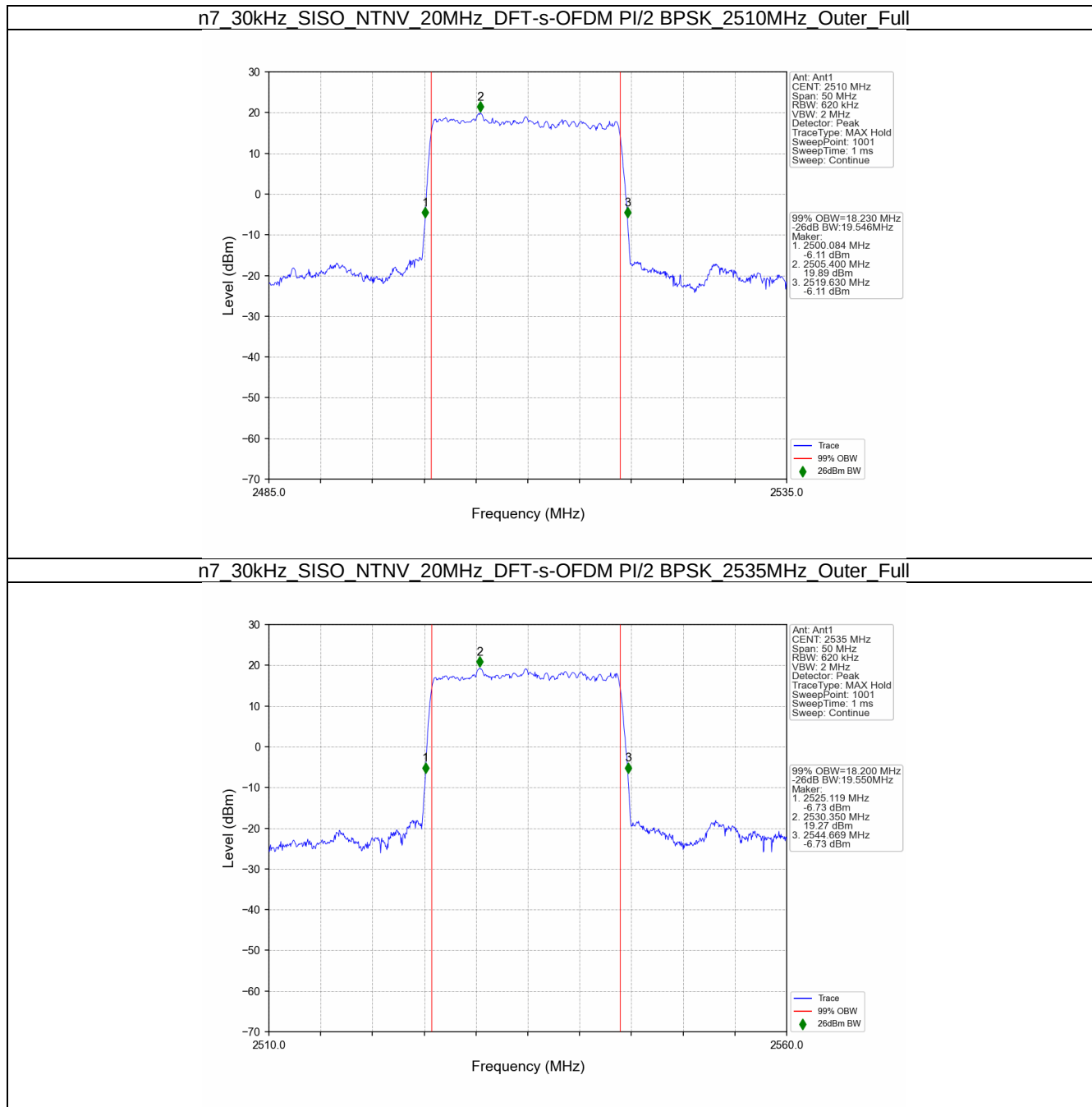
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4.11.2 Test Graph



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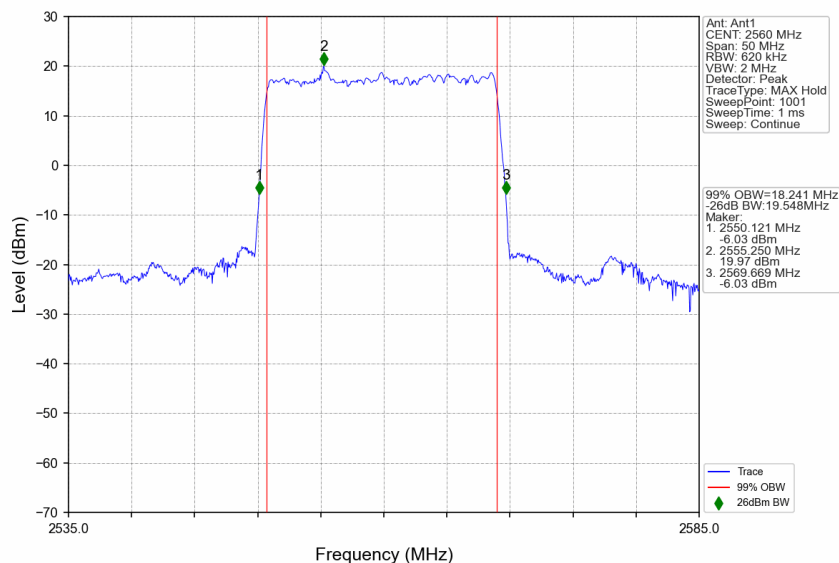
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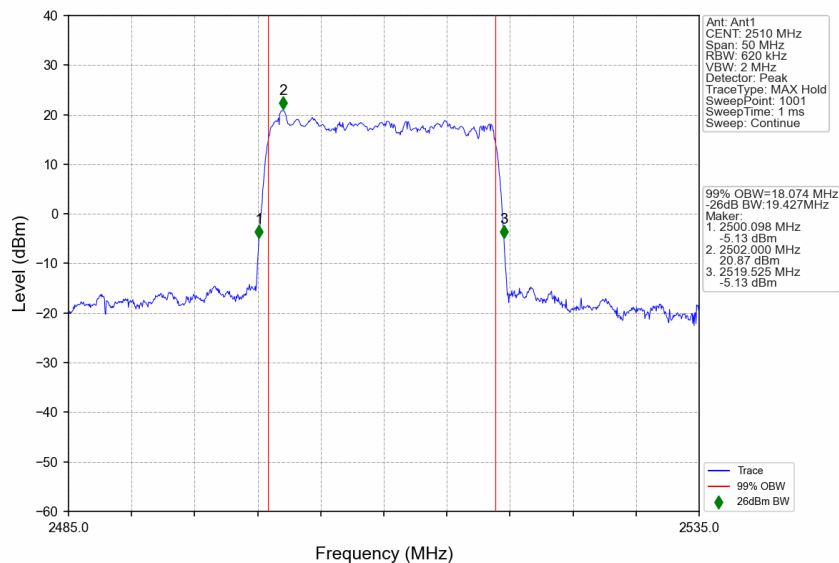
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2510MHz_Outer_Full



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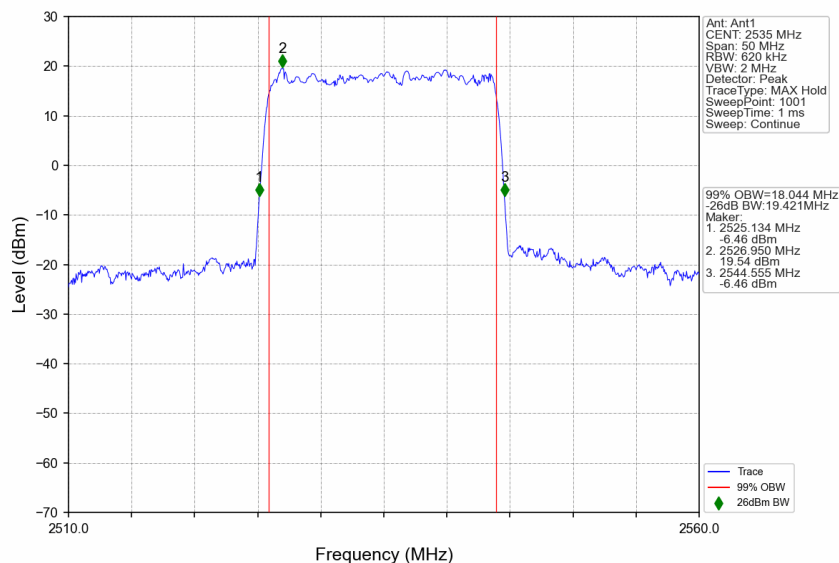
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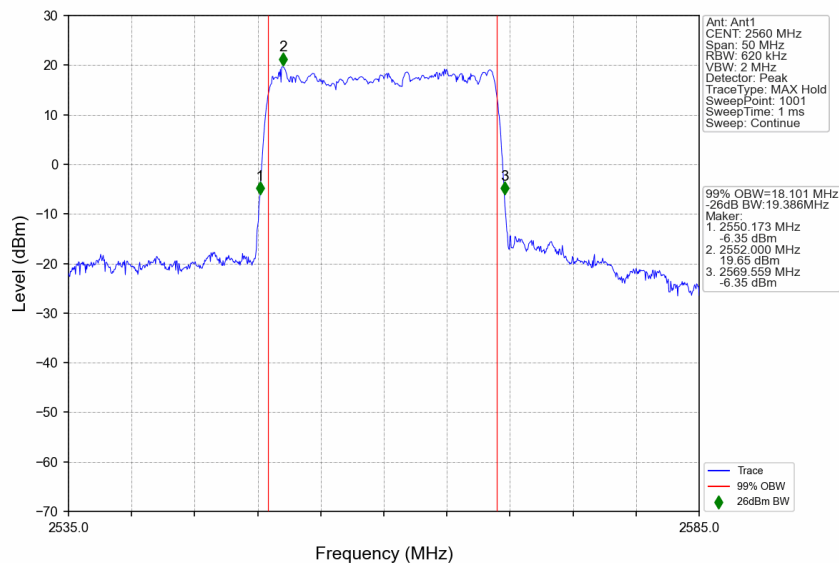
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2560MHz_Outer_Full



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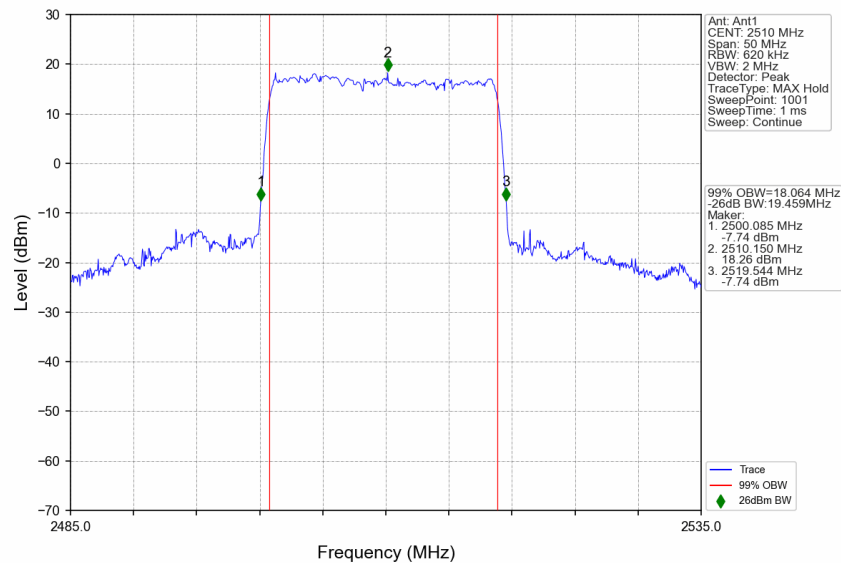
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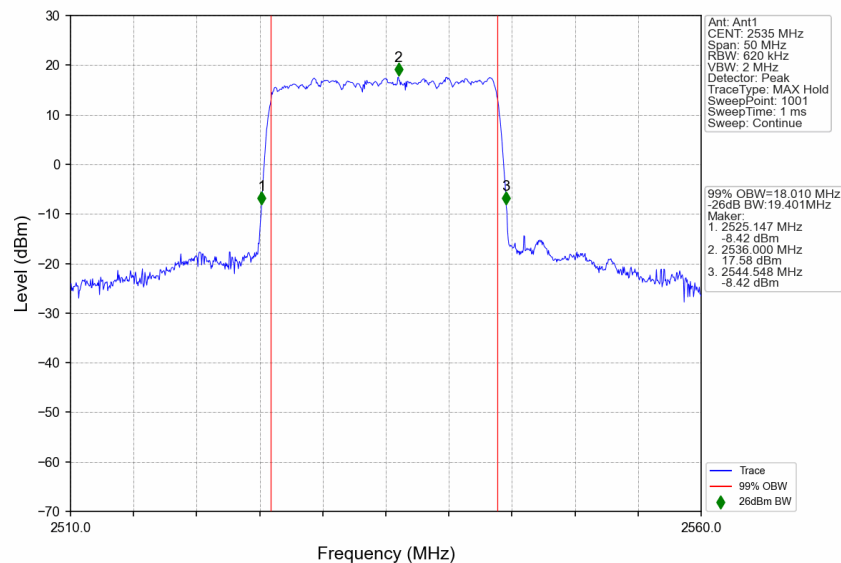
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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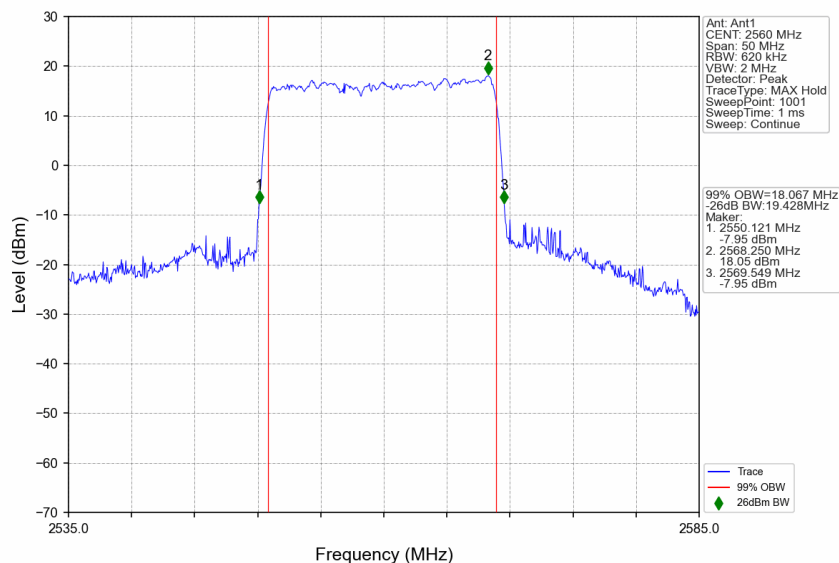
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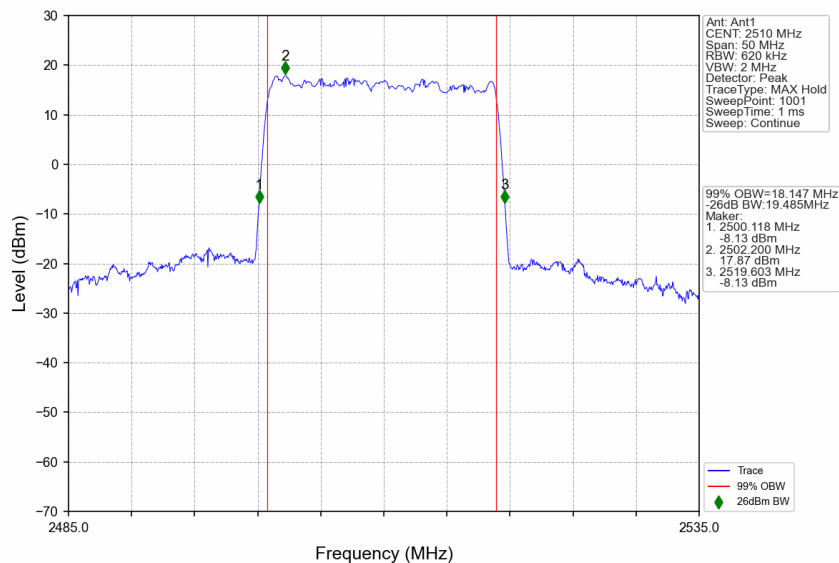
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2510MHz_Outer_Full



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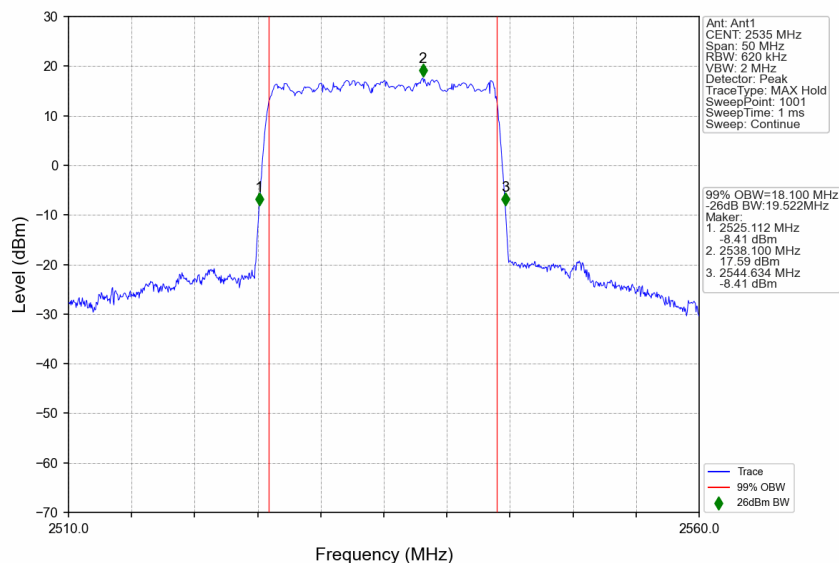
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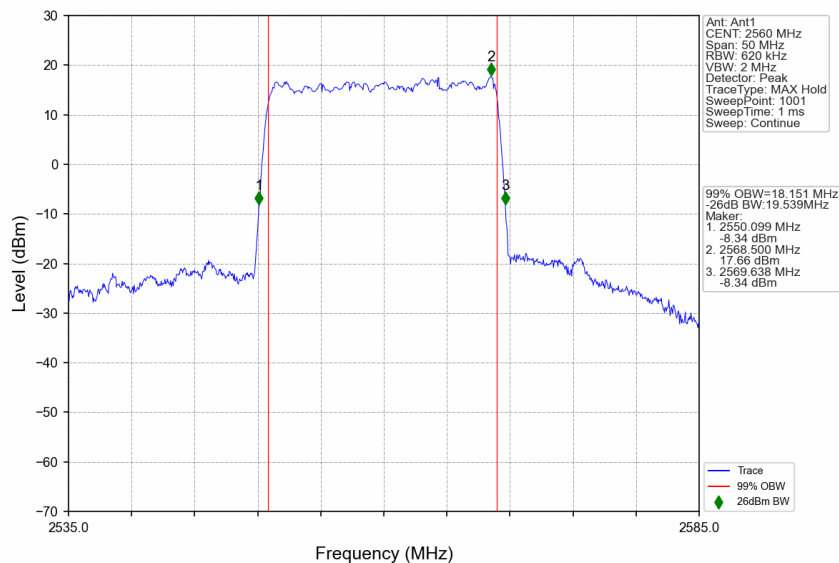
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2560MHz_Outer_Full



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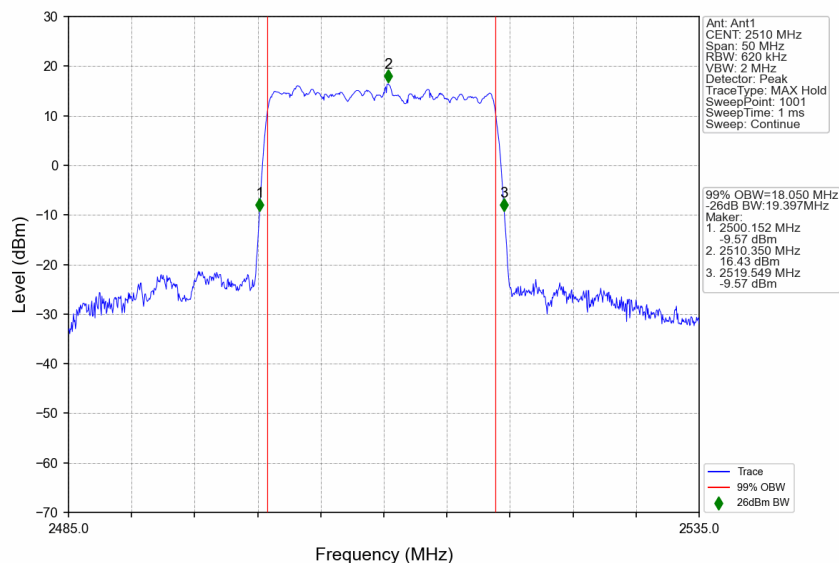
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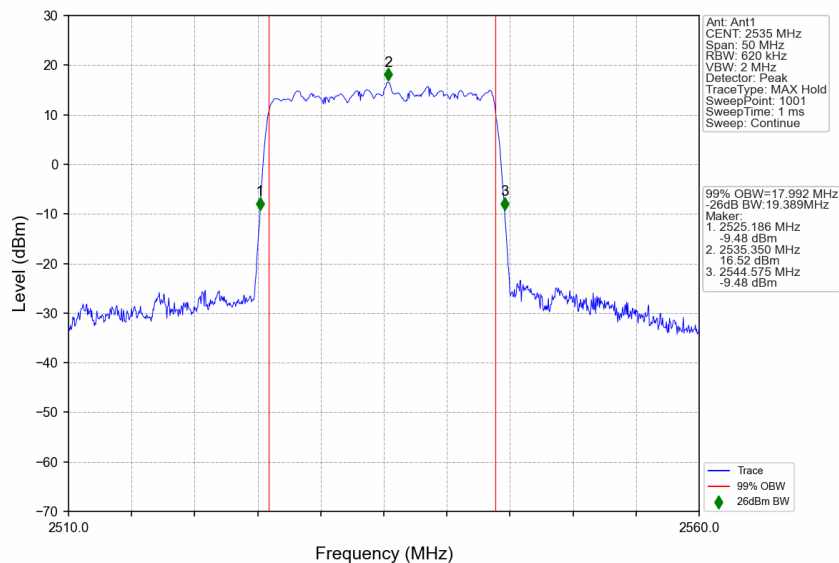
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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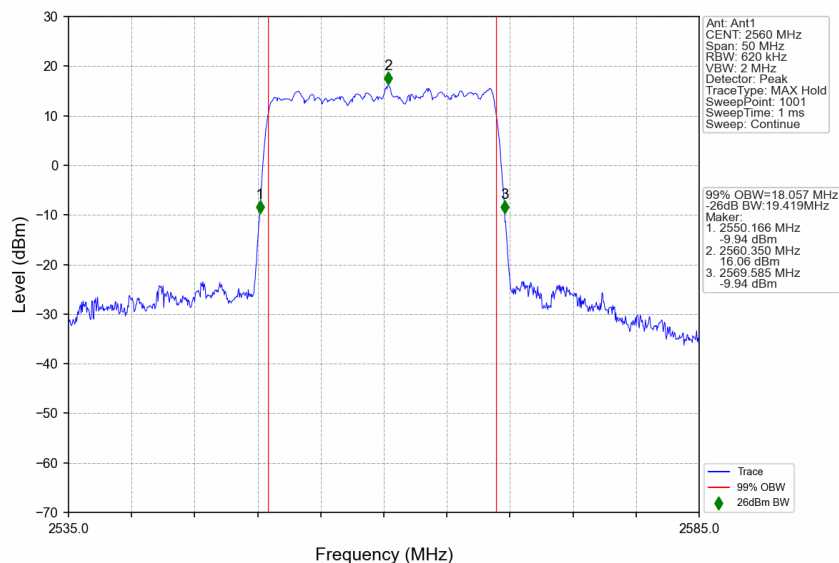
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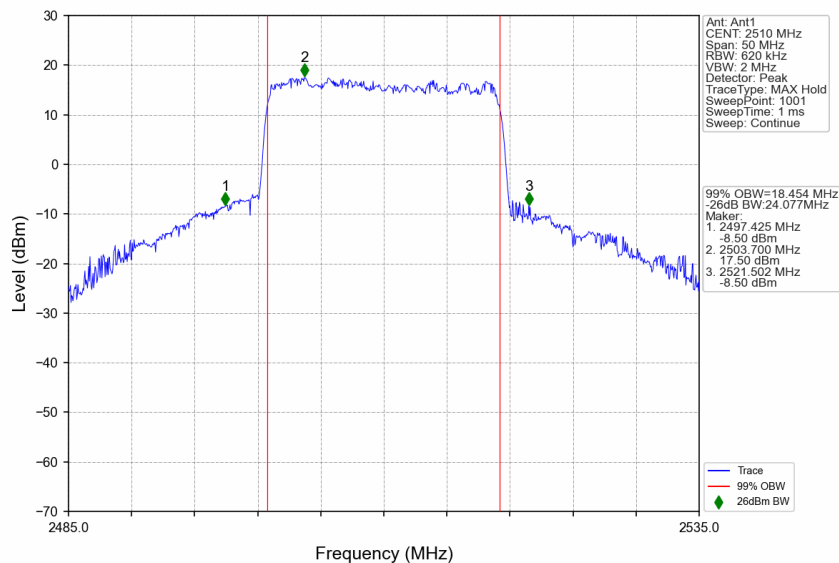
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2510MHz_Outer_Full



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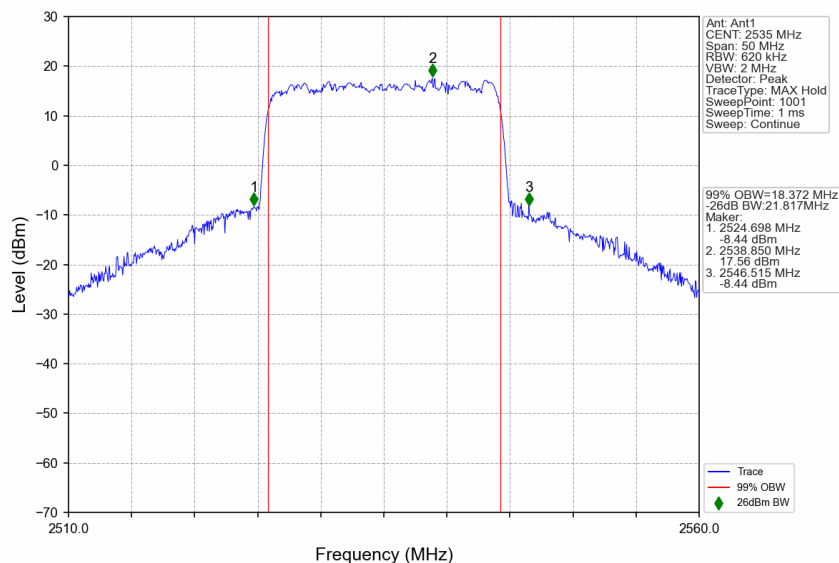
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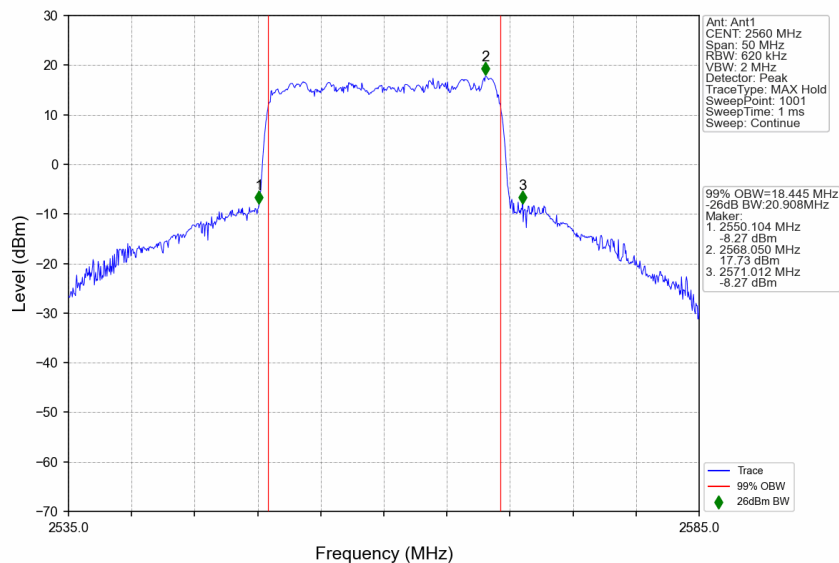
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2560MHz_Outer_Full



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