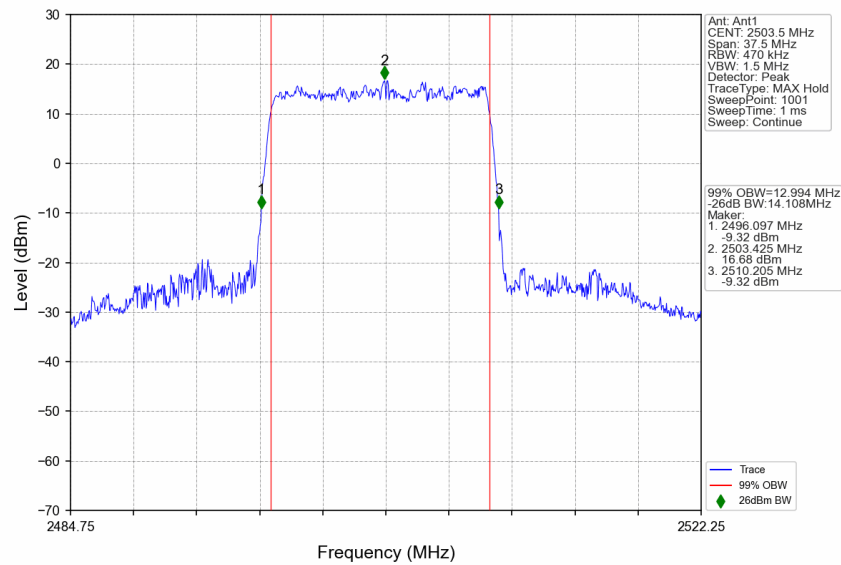


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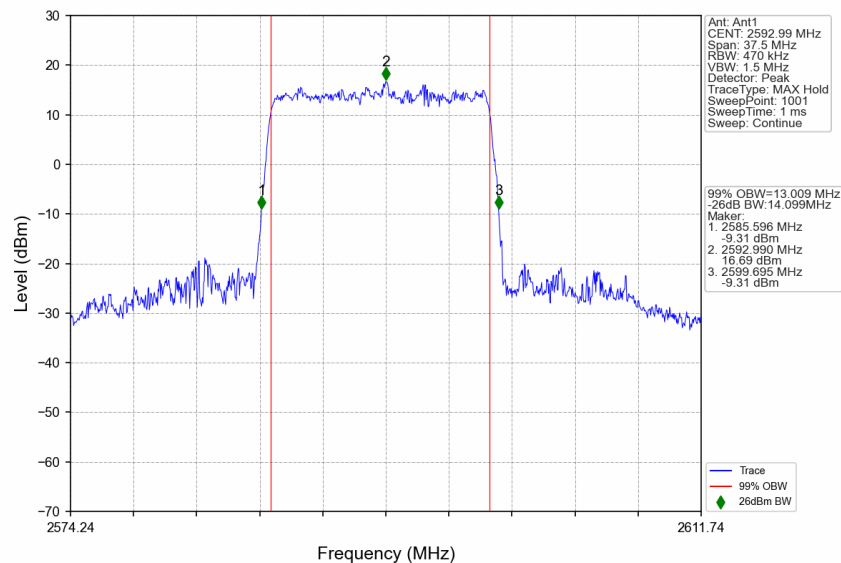
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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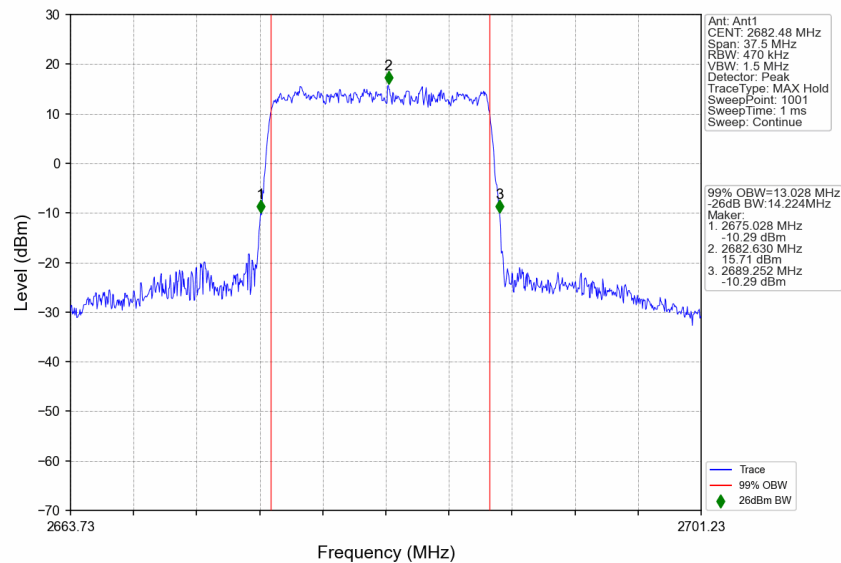
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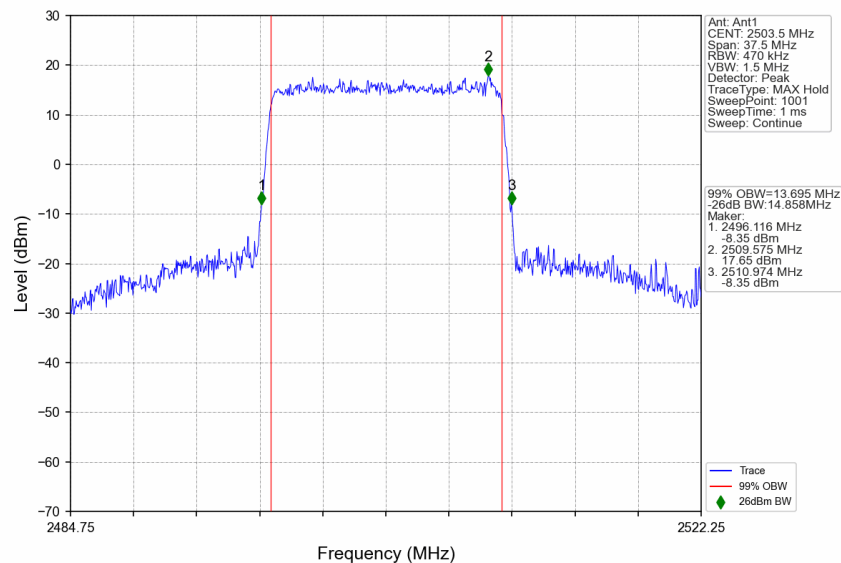
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2503.5MHz_Outer_Full



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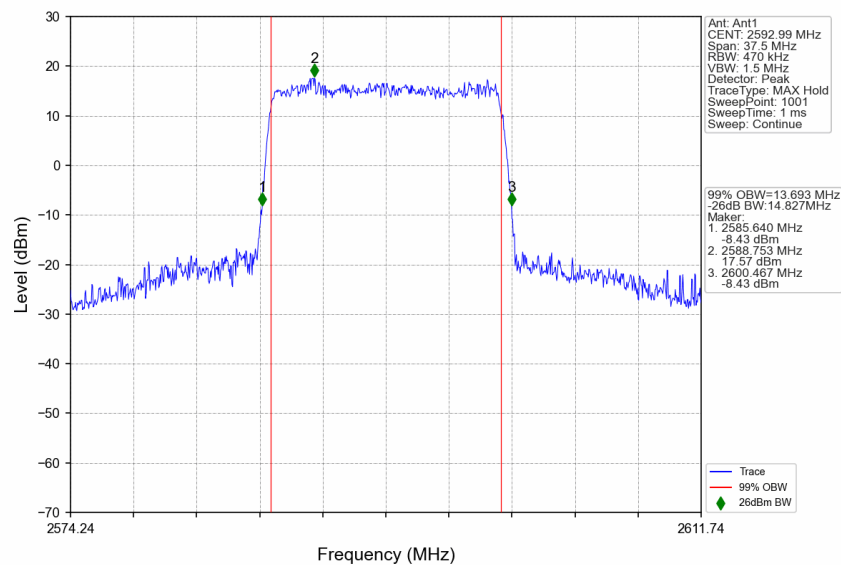
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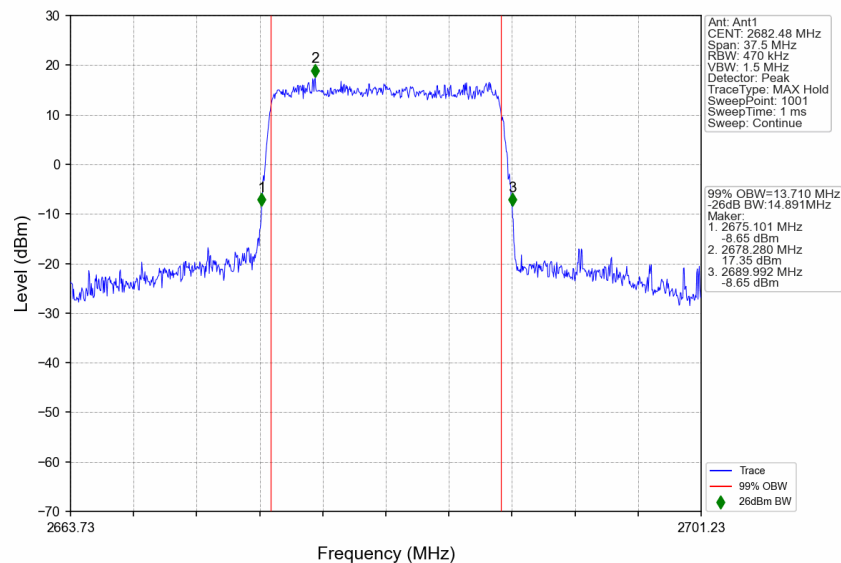
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2682.48MHz_Outer_Full



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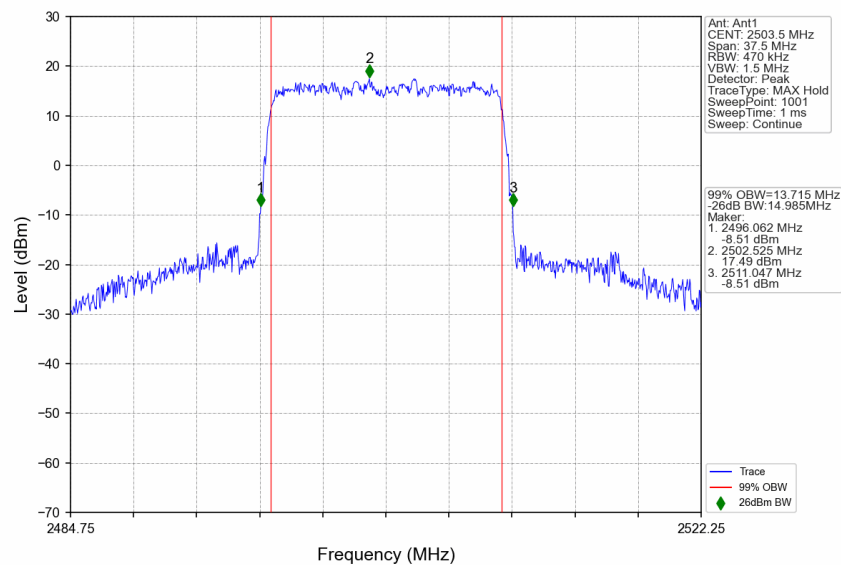
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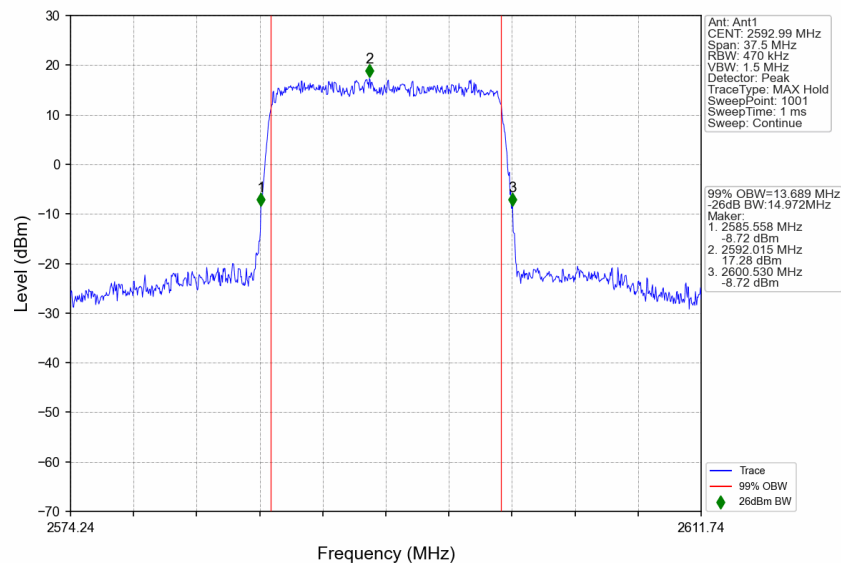
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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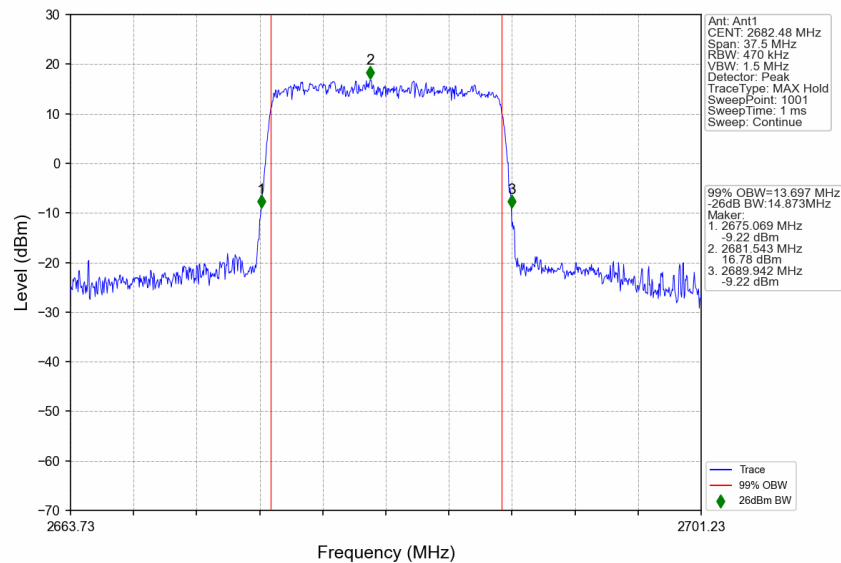
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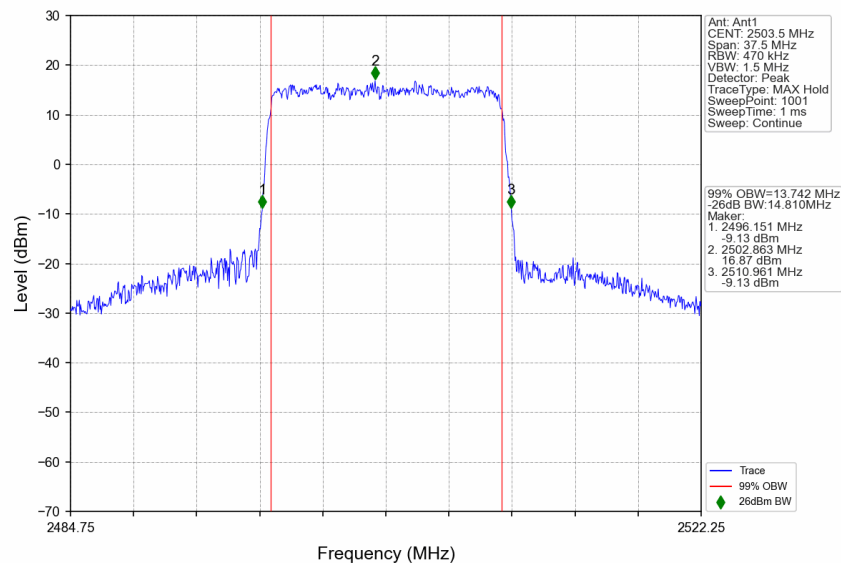
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2503.5MHz_Outer_Full



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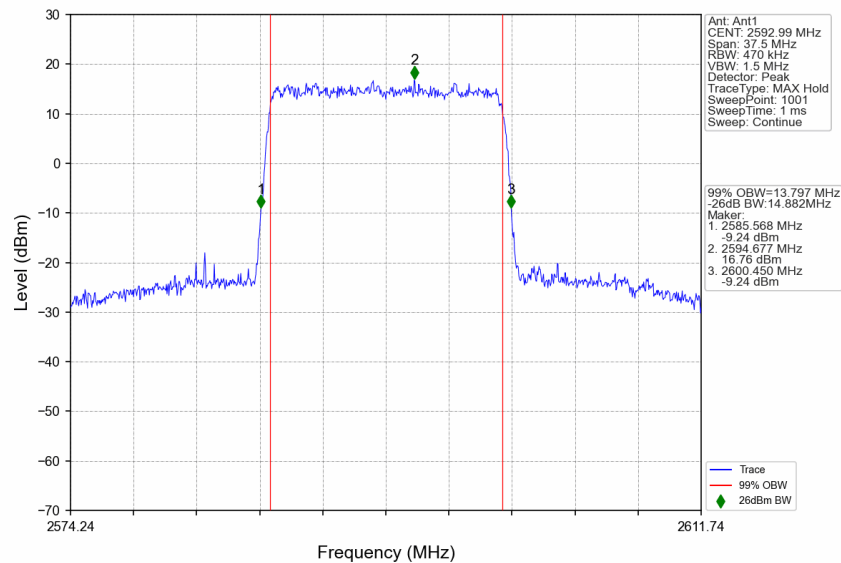
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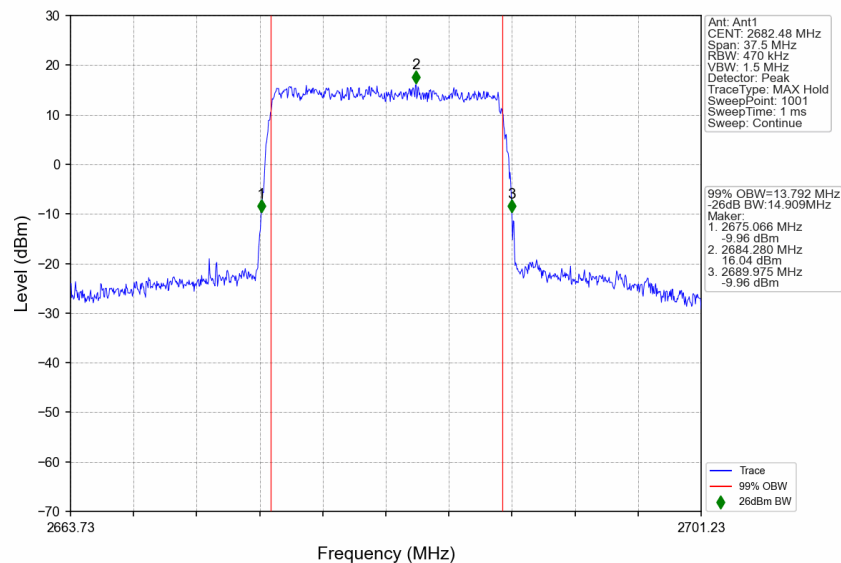
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2682.48MHz_Outer_Full



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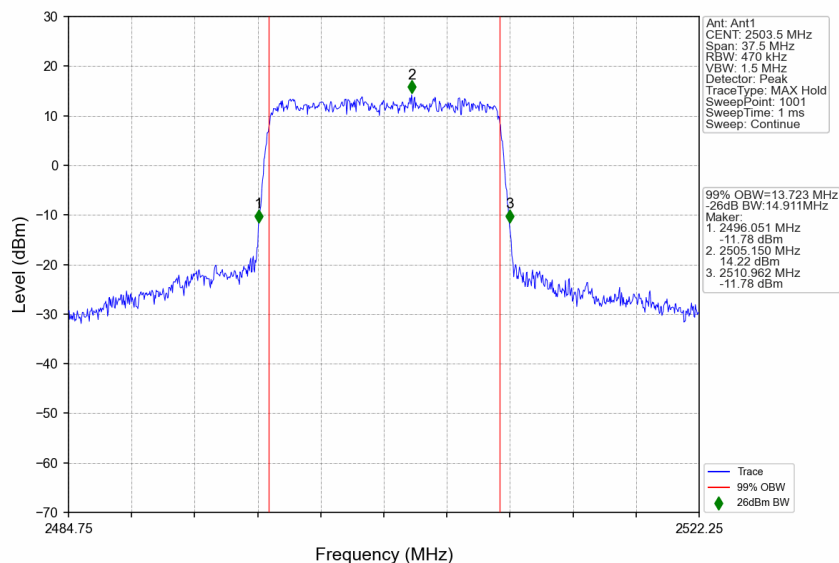
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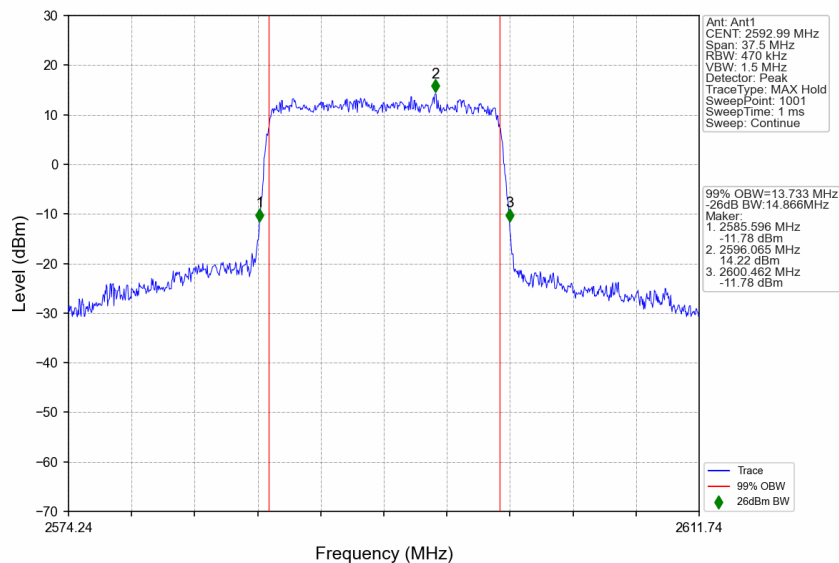
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2503.5MHz_Outer_Full



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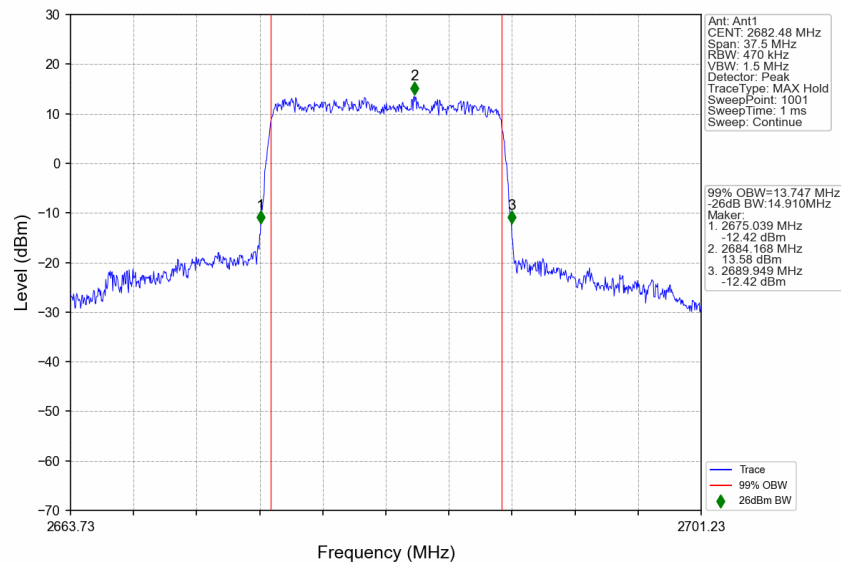
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4.10 30k_SISO_20MHz_NTNV

4.10.1 Test Result

5G NR n41 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	2506.02	Outer_Full	18.12	19.43	/	Pass
	2592.99	Outer_Full	18.13	19.41	/	Pass
	2679.99	Outer_Full	18.14	19.39	/	Pass
DFT-s-OFDM QPSK	2506.02	Outer_Full	18.05	19.48	/	Pass
	2592.99	Outer_Full	18.08	19.36	/	Pass
	2679.99	Outer_Full	18.07	19.34	/	Pass
DFT-s-OFDM 16 QAM	2506.02	Outer_Full	18.06	19.39	/	Pass
	2592.99	Outer_Full	18.05	19.38	/	Pass
	2679.99	Outer_Full	18.10	19.50	/	Pass
DFT-s-OFDM 64 QAM	2506.02	Outer_Full	18.11	19.48	/	Pass
	2592.99	Outer_Full	18.14	19.50	/	Pass
	2679.99	Outer_Full	18.13	19.56	/	Pass
DFT-s-OFDM 256 QAM	2506.02	Outer_Full	18.05	19.35	/	Pass
	2592.99	Outer_Full	18.02	19.35	/	Pass
	2679.99	Outer_Full	18.06	19.37	/	Pass
CP-OFDM QPSK	2506.02	Outer_Full	18.42	19.80	/	Pass
	2592.99	Outer_Full	18.40	19.89	/	Pass
	2679.99	Outer_Full	18.40	19.89	/	Pass
CP-OFDM 16 QAM	2506.02	Outer_Full	18.38	19.76	/	Pass
	2592.99	Outer_Full	18.40	19.86	/	Pass
	2679.99	Outer_Full	18.43	19.93	/	Pass
CP-OFDM 64 QAM	2506.02	Outer_Full	18.38	19.77	/	Pass
	2592.99	Outer_Full	18.39	19.76	/	Pass
	2679.99	Outer_Full	18.45	19.82	/	Pass
CP-OFDM 256 QAM	2506.02	Outer_Full	18.45	19.74	/	Pass
	2592.99	Outer_Full	18.39	19.74	/	Pass
	2679.99	Outer_Full	18.39	19.79	/	Pass



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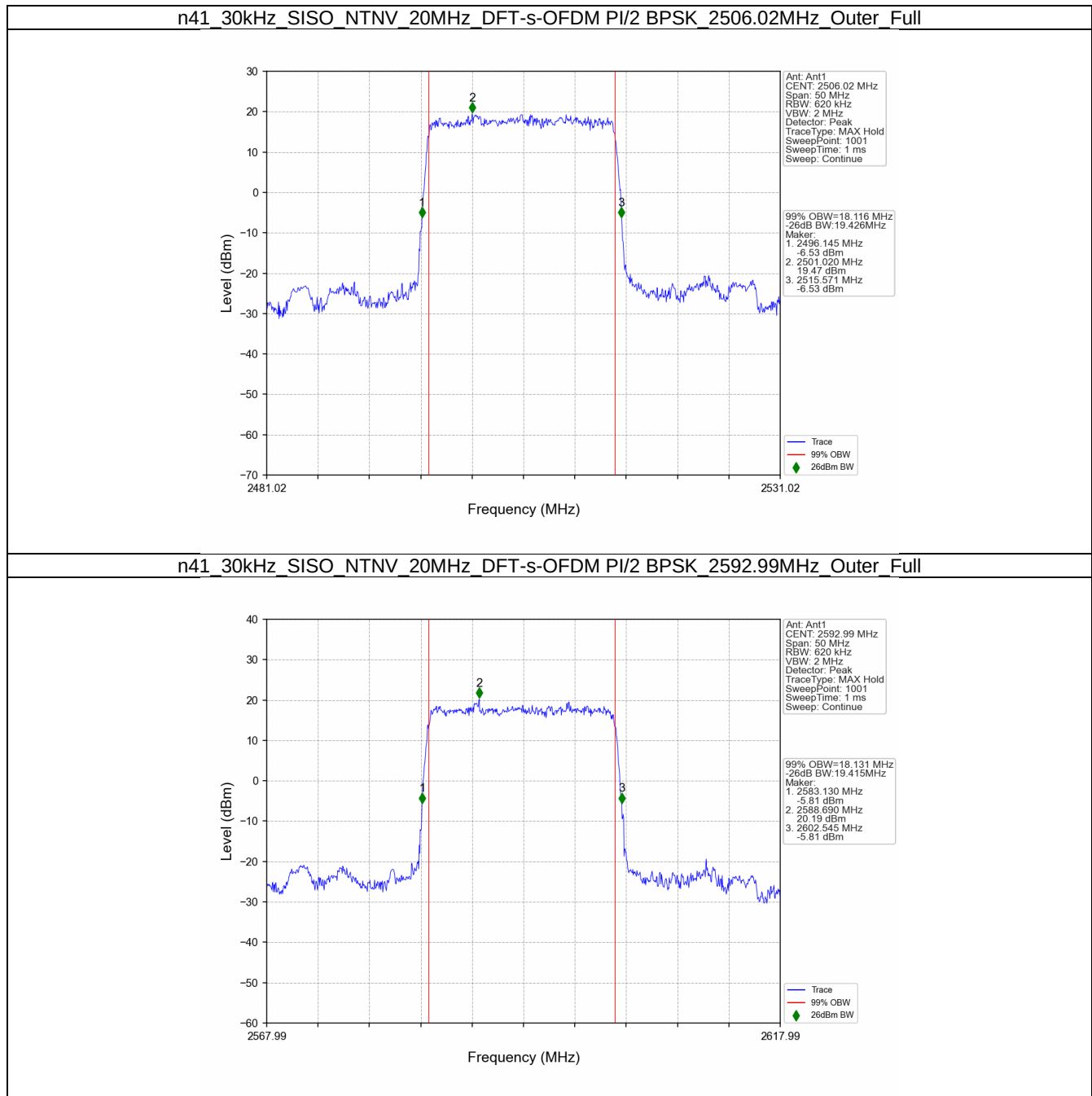
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4.10.2 Test Graph



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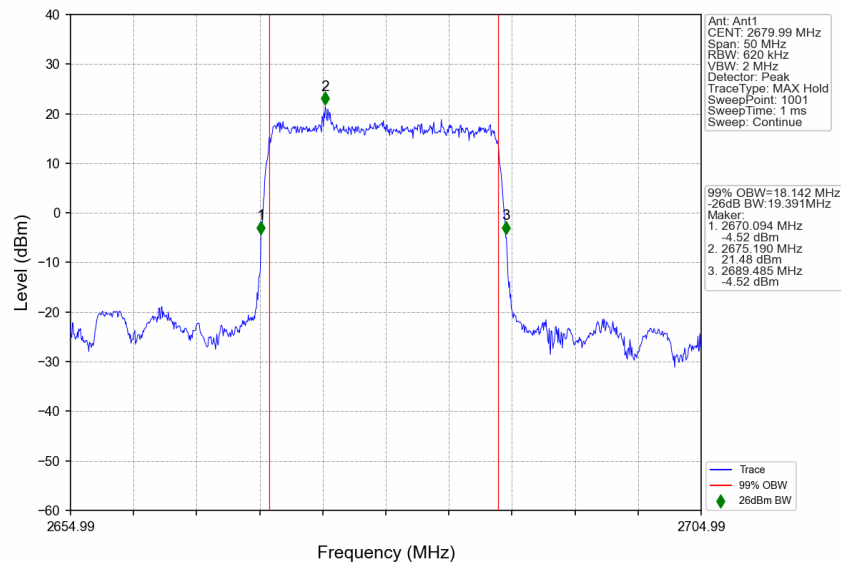
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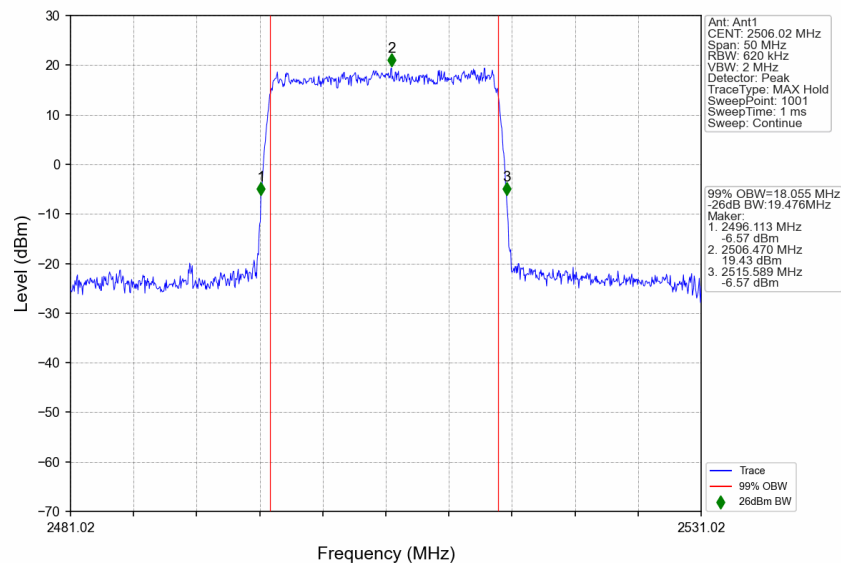
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2506.02MHz_Outer_Full



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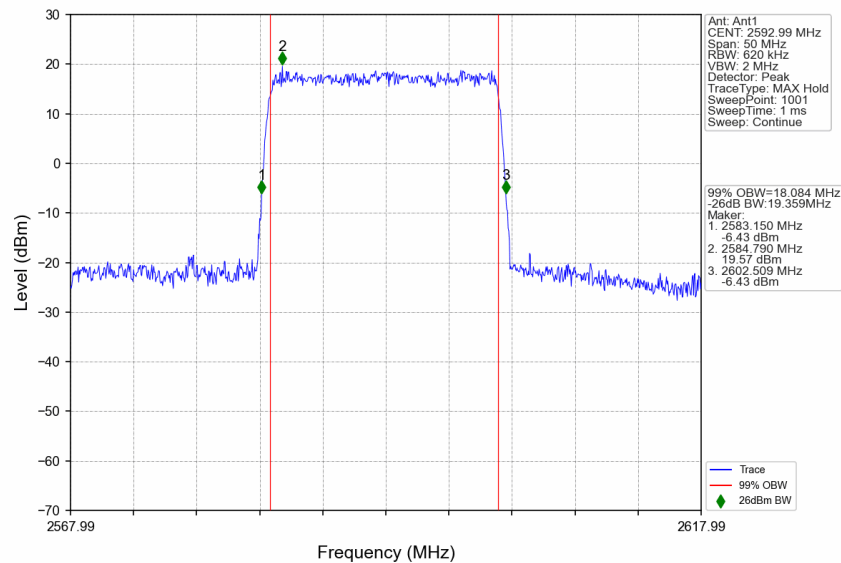
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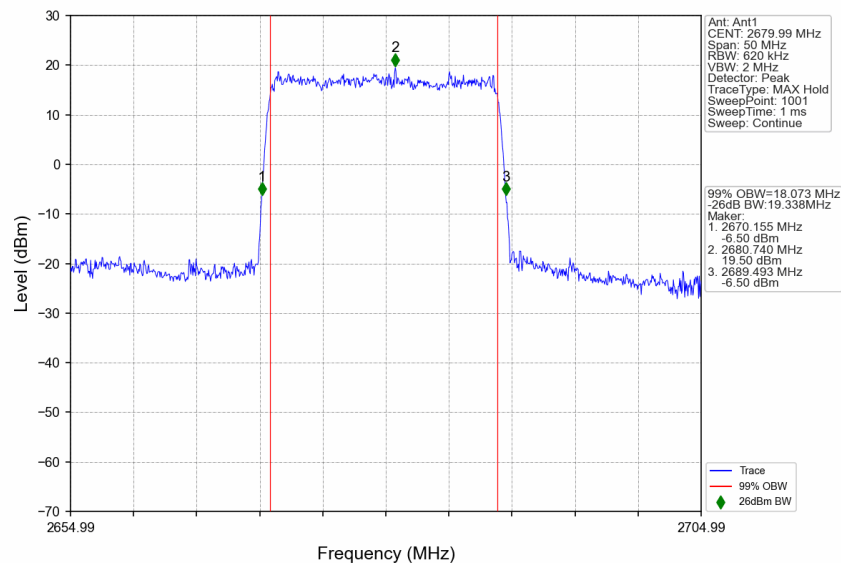
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2679.99MHz_Outer_Full



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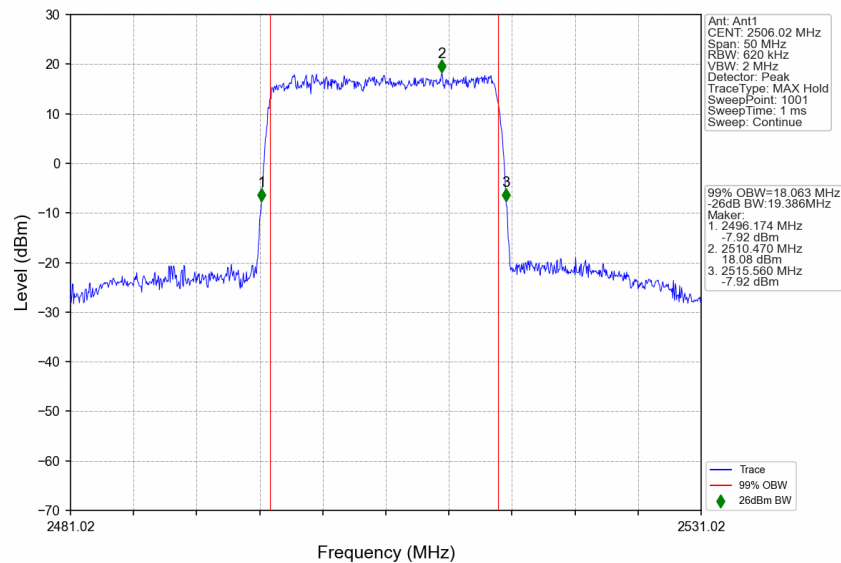
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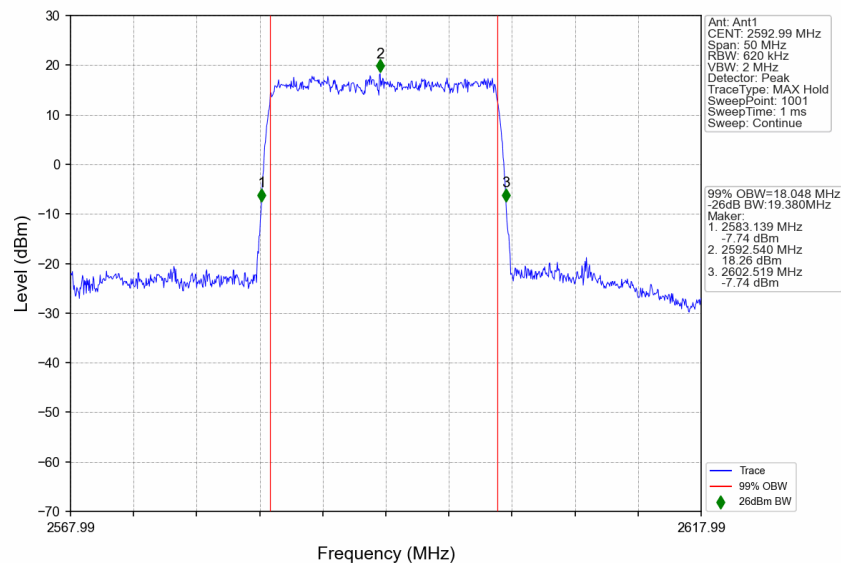
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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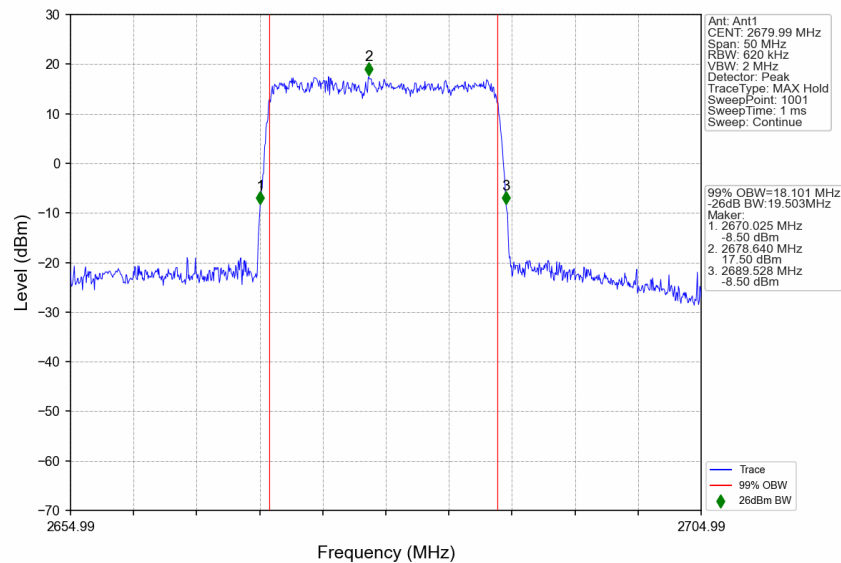
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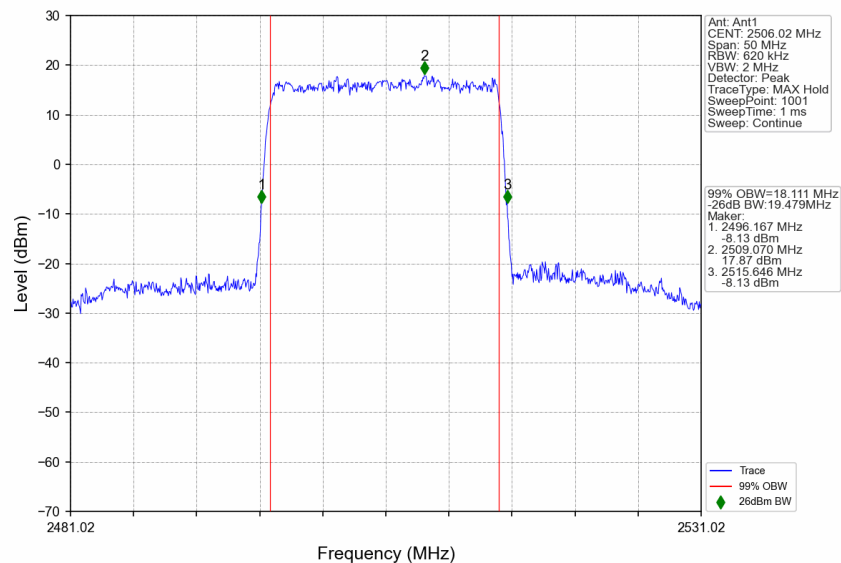
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2506.02MHz_Outer_Full



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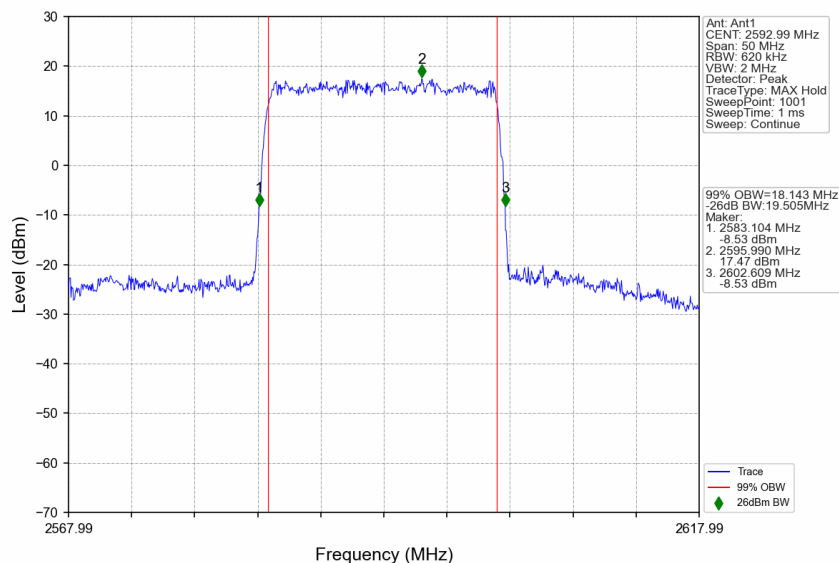
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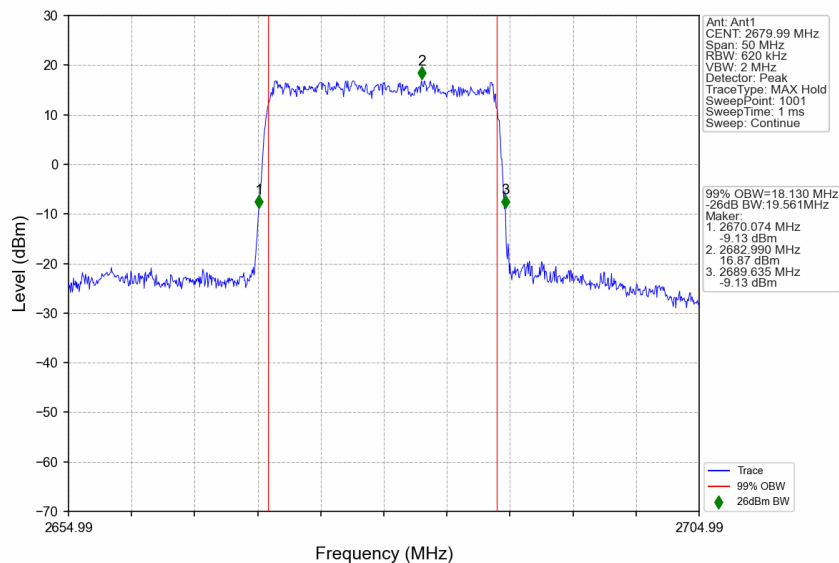
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_2679.99MHz_Outer_Full



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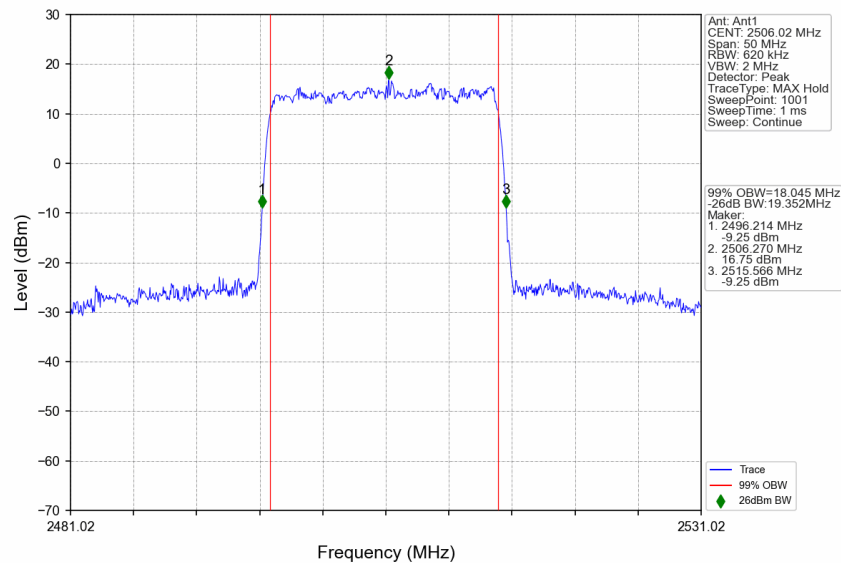
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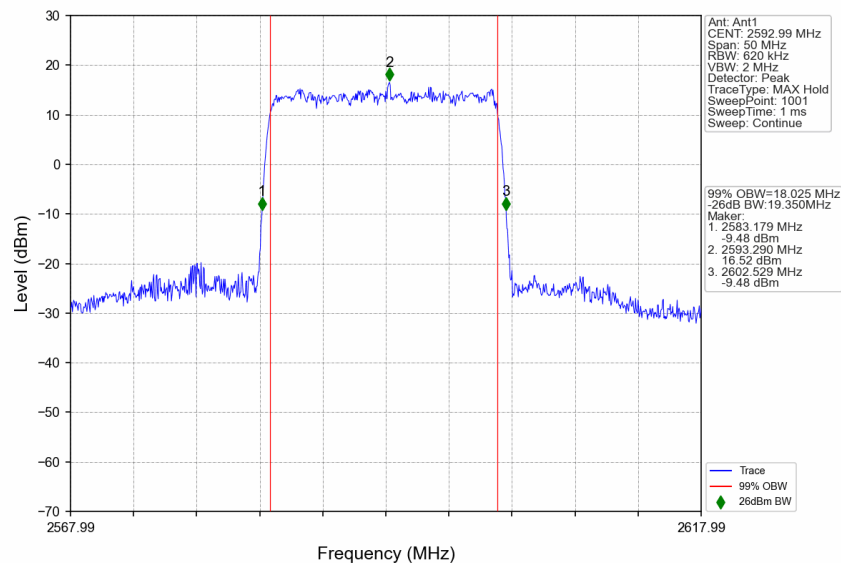
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256 QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256 QAM_2592.99MHz_Outer_Full



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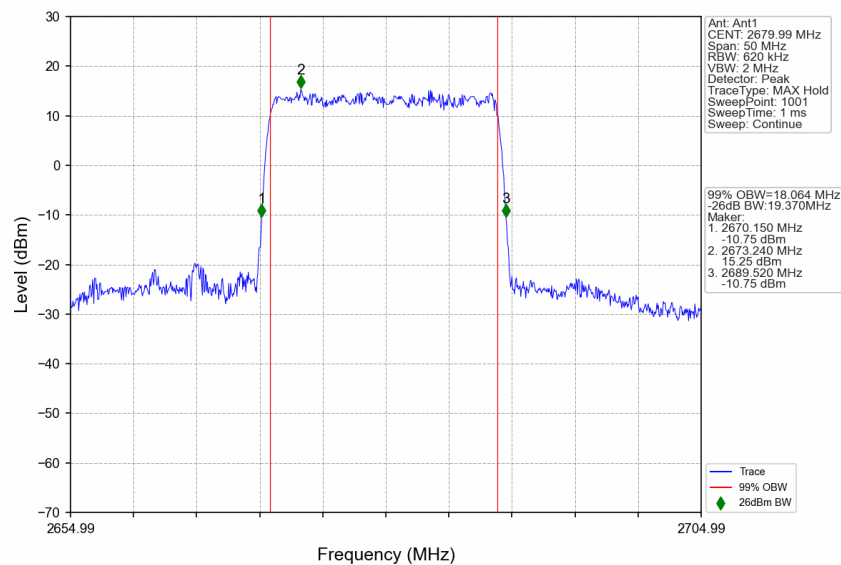
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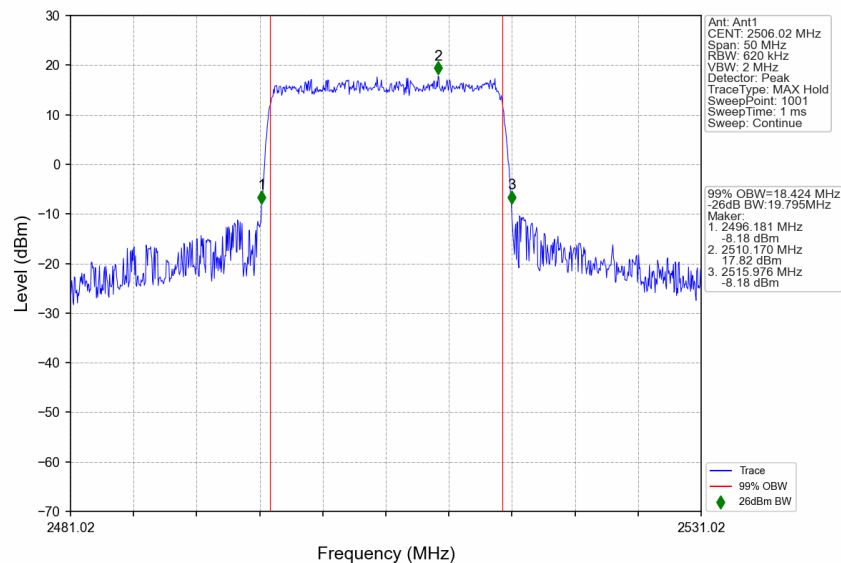
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2506.02MHz_Outer_Full



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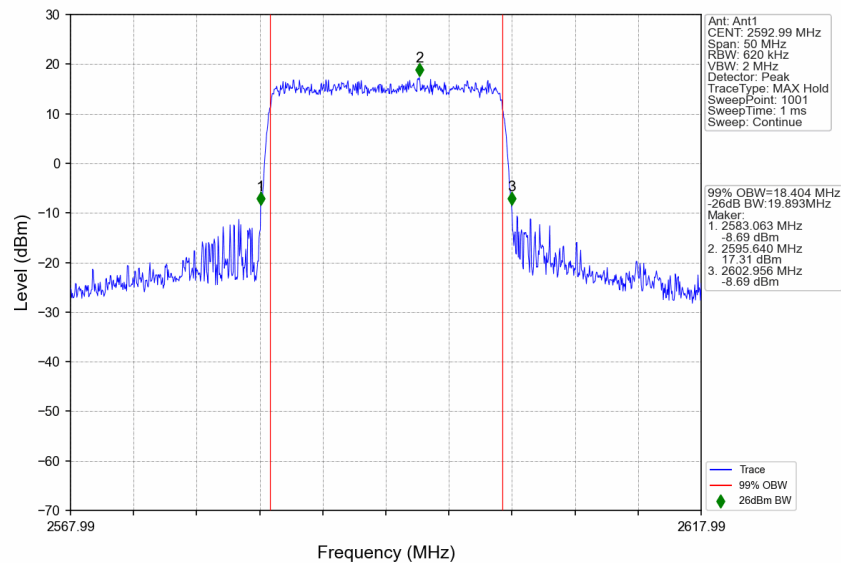
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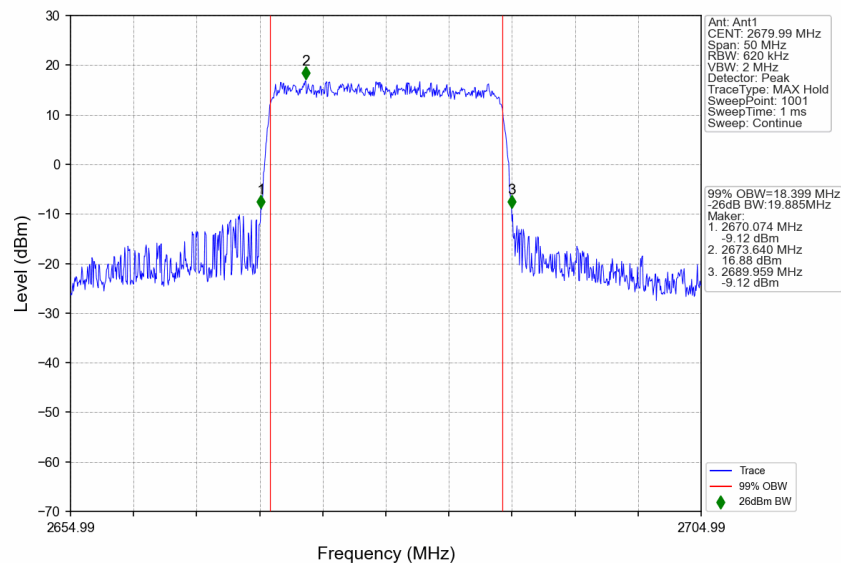
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2679.99MHz_Outer_Full



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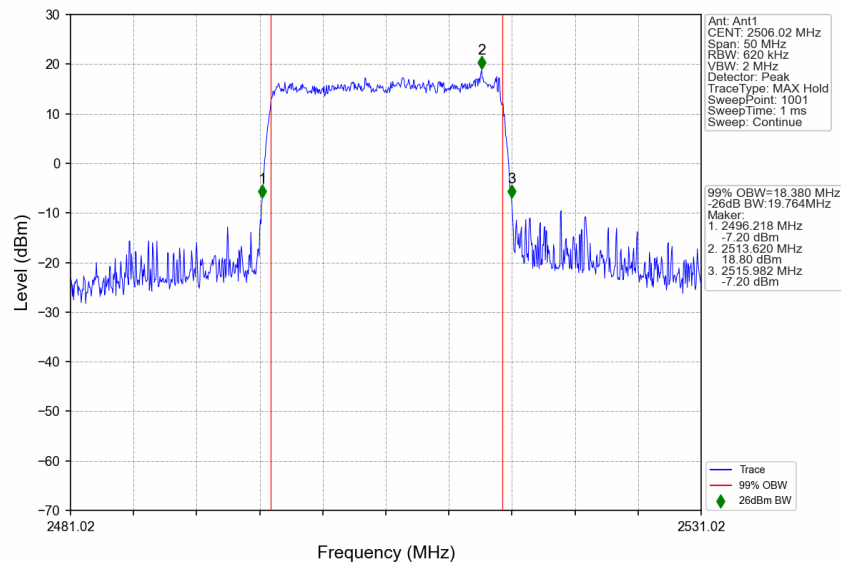
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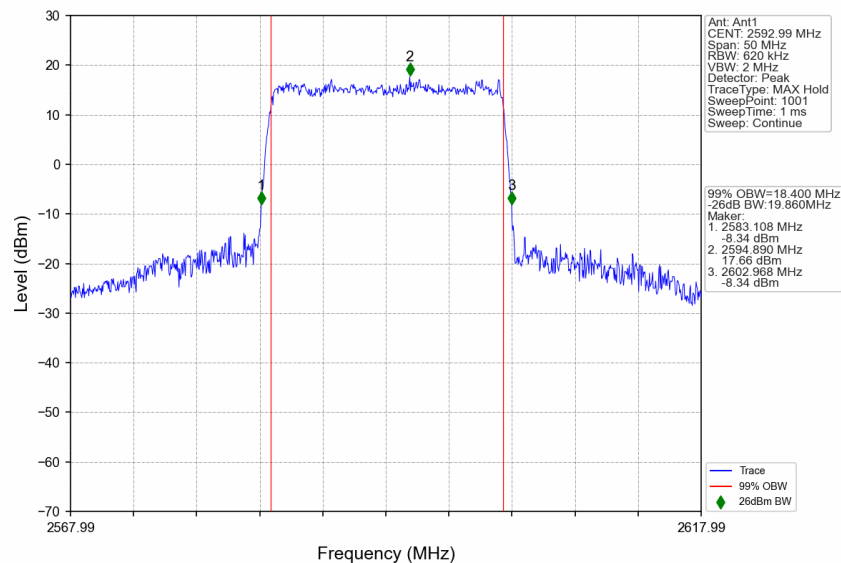
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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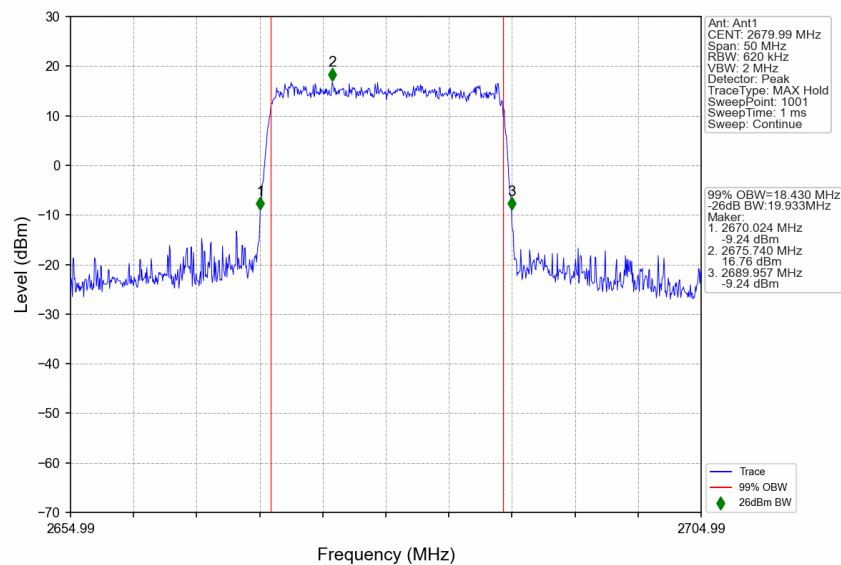
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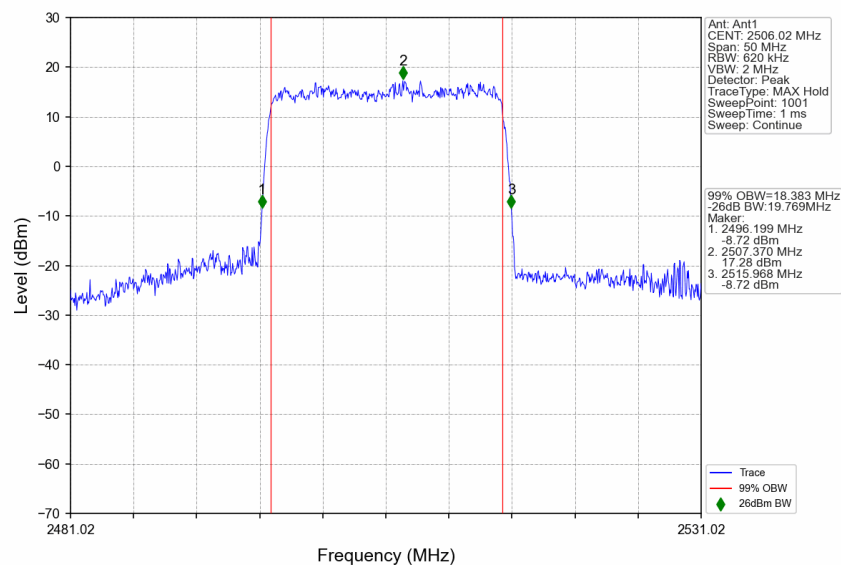
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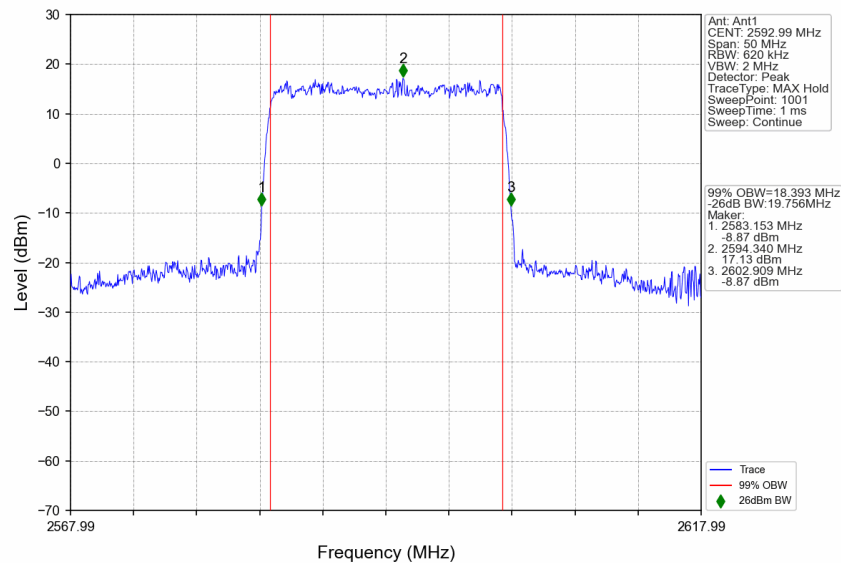
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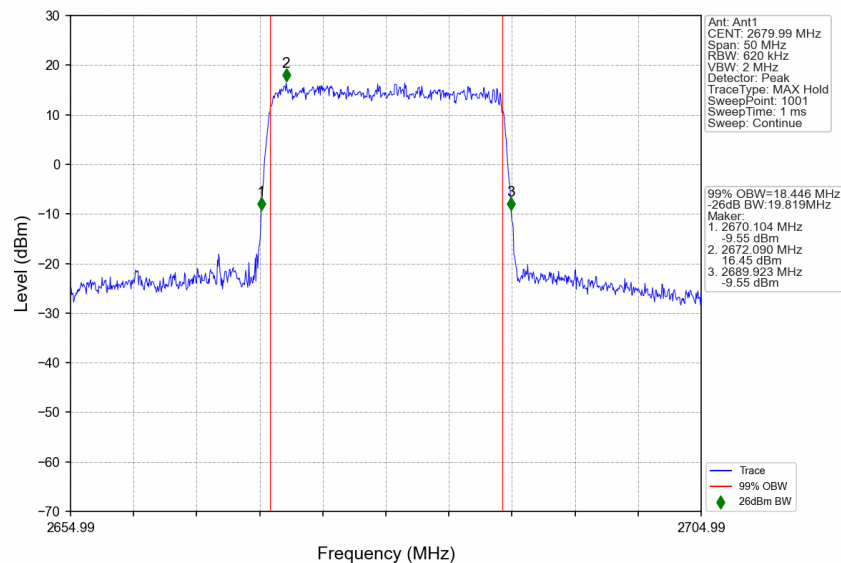
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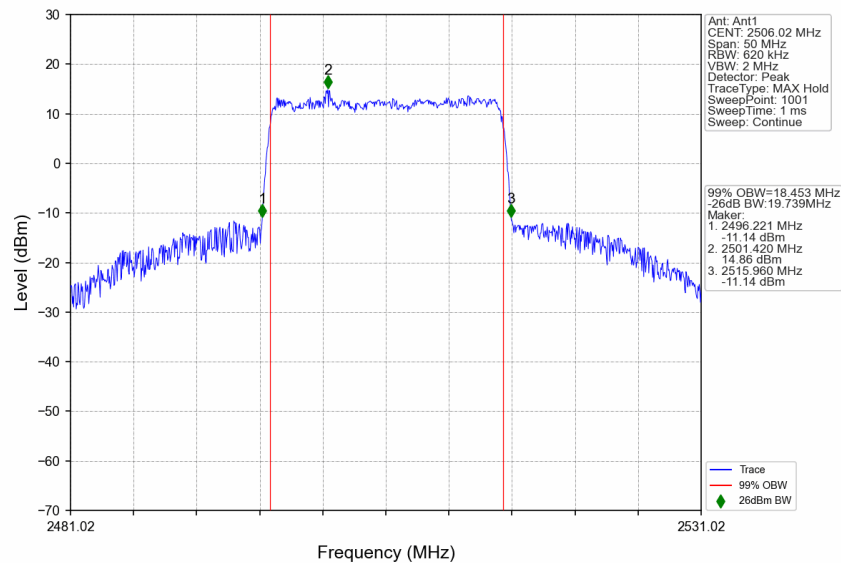
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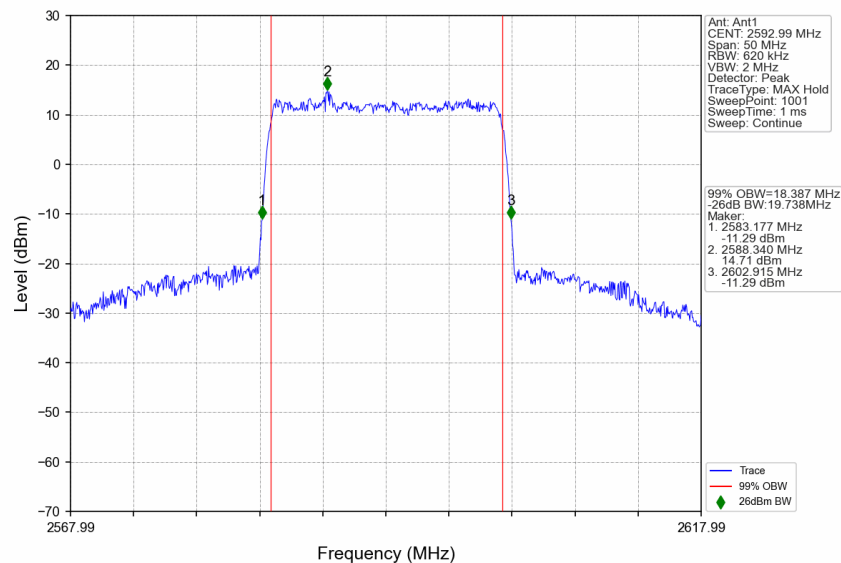
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2592.99MHz_Outer_Full



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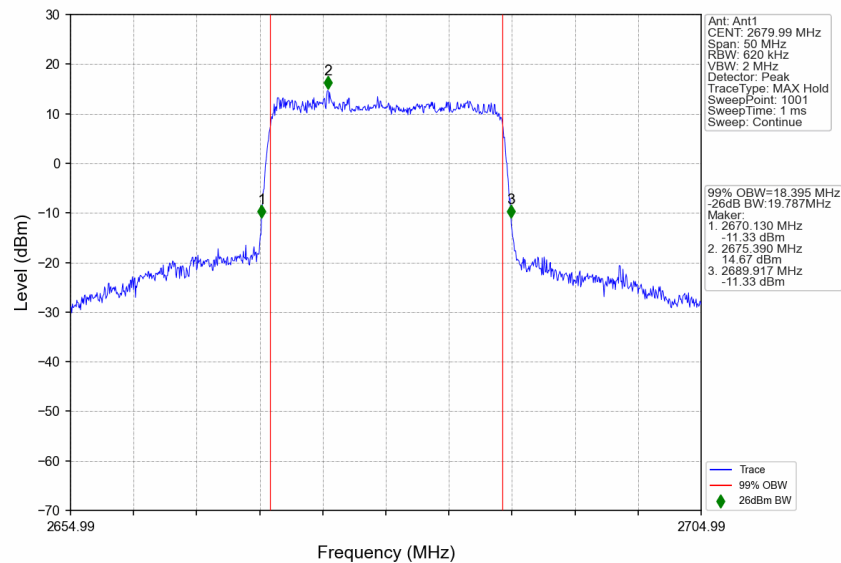
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2679.99MHz_Outer_Full



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4.11 30k_SISO_25MHz_NTNV

4.11.1 Test Result

5G NR n41 SCS=30kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2508.51	Outer Full	23.14	24.75	/	Pass
	2592.99	Outer Full	23.16	24.73	/	Pass
	2677.5	Outer Full	23.18	24.72	/	Pass
DFT-s-OFDM QPSK	2508.51	Outer Full	23.04	24.74	/	Pass
	2592.99	Outer Full	23.05	24.74	/	Pass
	2677.5	Outer Full	23.13	24.73	/	Pass
DFT-s-OFDM 16 QAM	2508.51	Outer Full	23.15	24.72	/	Pass
	2592.99	Outer Full	23.10	24.77	/	Pass
	2677.5	Outer Full	23.16	24.75	/	Pass
DFT-s-OFDM 64 QAM	2508.51	Outer Full	23.18	24.77	/	Pass
	2592.99	Outer Full	23.16	24.82	/	Pass
	2677.5	Outer Full	23.20	24.82	/	Pass
DFT-s-OFDM 256 QAM	2508.51	Outer Full	23.04	24.71	/	Pass
	2592.99	Outer Full	23.05	24.71	/	Pass
	2677.5	Outer Full	23.08	24.75	/	Pass
CP-OFDM QPSK	2508.51	Outer Full	23.39	25.05	/	Pass
	2592.99	Outer Full	23.33	25.00	/	Pass
	2677.5	Outer Full	23.38	25.09	/	Pass
CP-OFDM 16 QAM	2508.51	Outer Full	23.46	25.12	/	Pass
	2592.99	Outer Full	23.43	25.07	/	Pass
	2677.5	Outer Full	23.49	25.18	/	Pass
CP-OFDM 64 QAM	2508.51	Outer Full	23.49	25.11	/	Pass
	2592.99	Outer Full	23.47	25.03	/	Pass
	2677.5	Outer Full	23.49	25.16	/	Pass
CP-OFDM 256 QAM	2508.51	Outer Full	23.45	25.06	/	Pass
	2592.99	Outer Full	23.40	25.11	/	Pass
	2677.5	Outer Full	23.43	25.16	/	Pass



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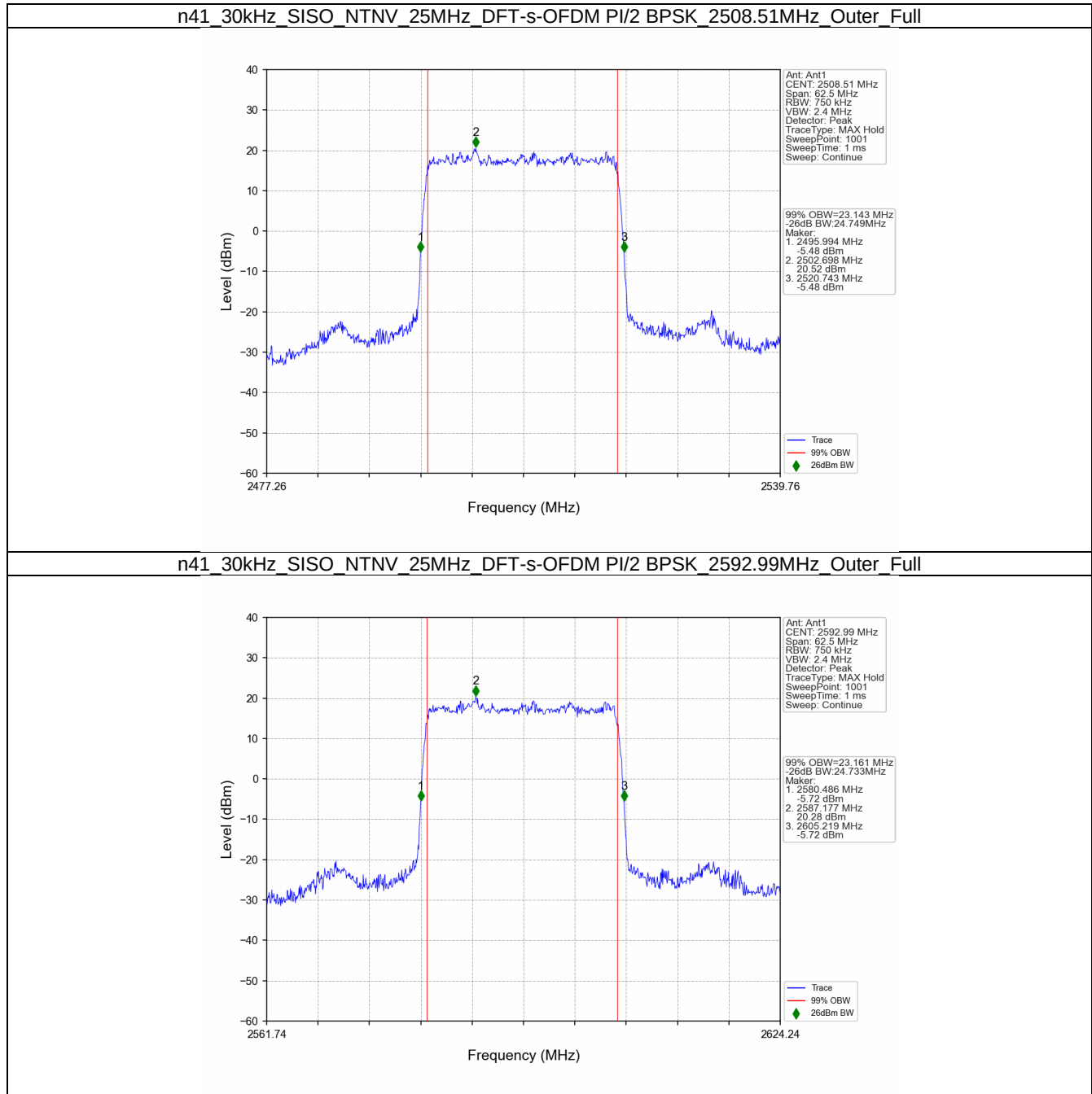
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4.11.2 Test Graph



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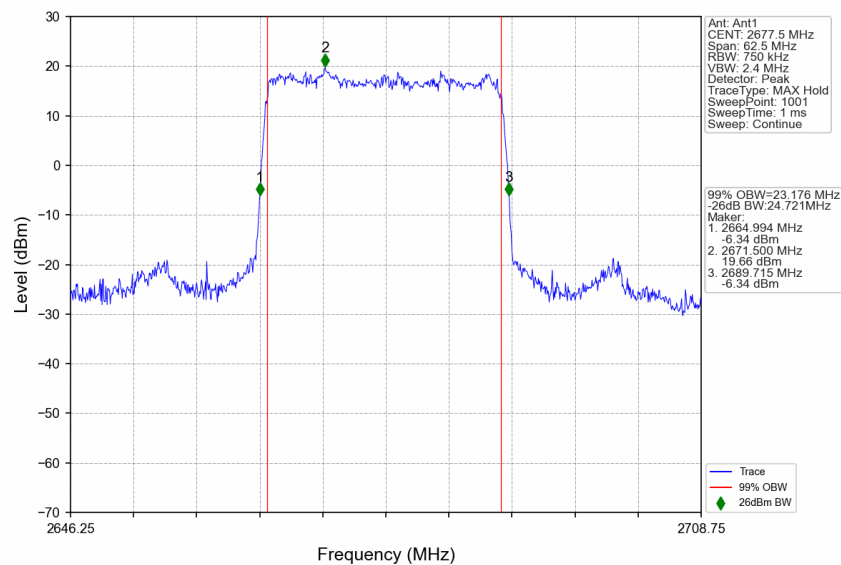
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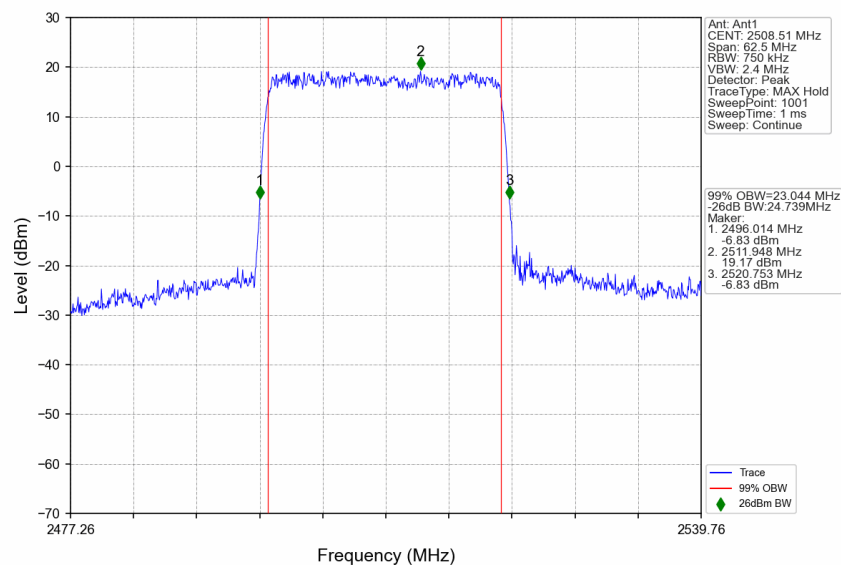
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2677.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2508.51MHz_Outer_Full



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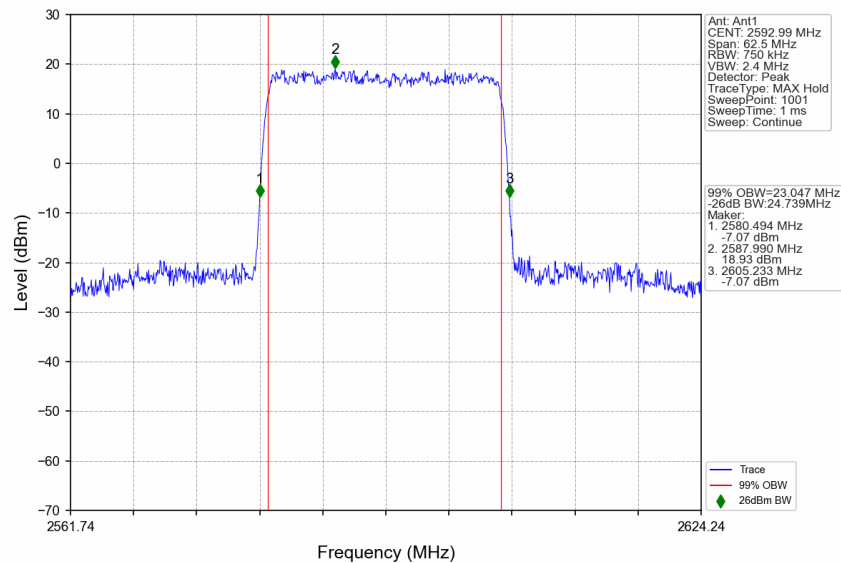
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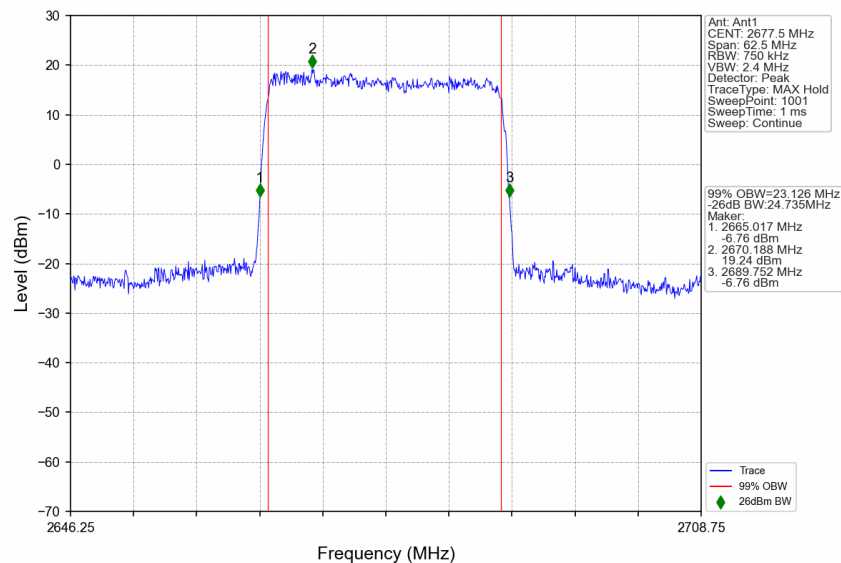
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2677.5MHz_Outer_Full



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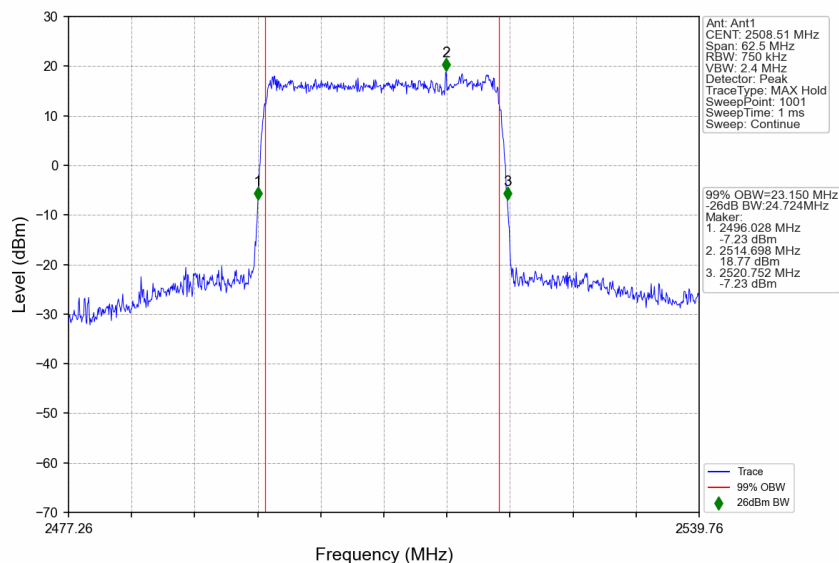
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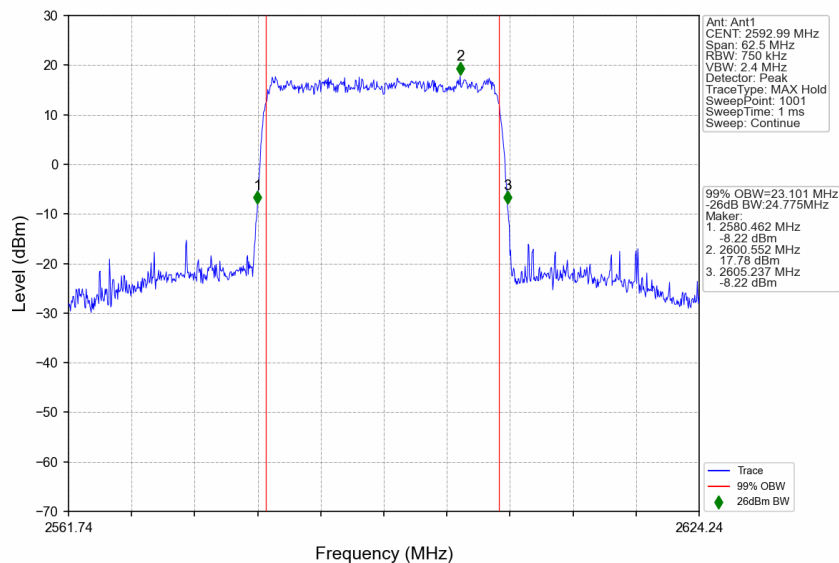
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n41_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2508.51MHz_Outer_Full



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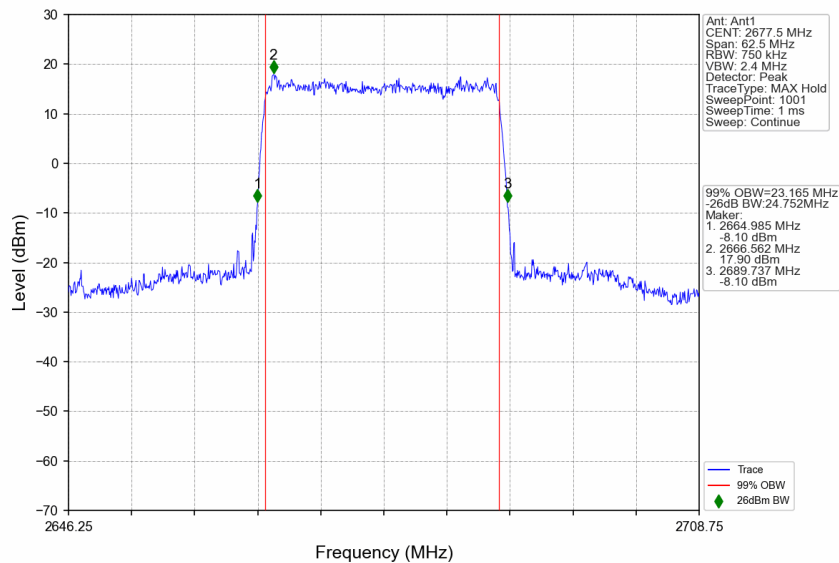
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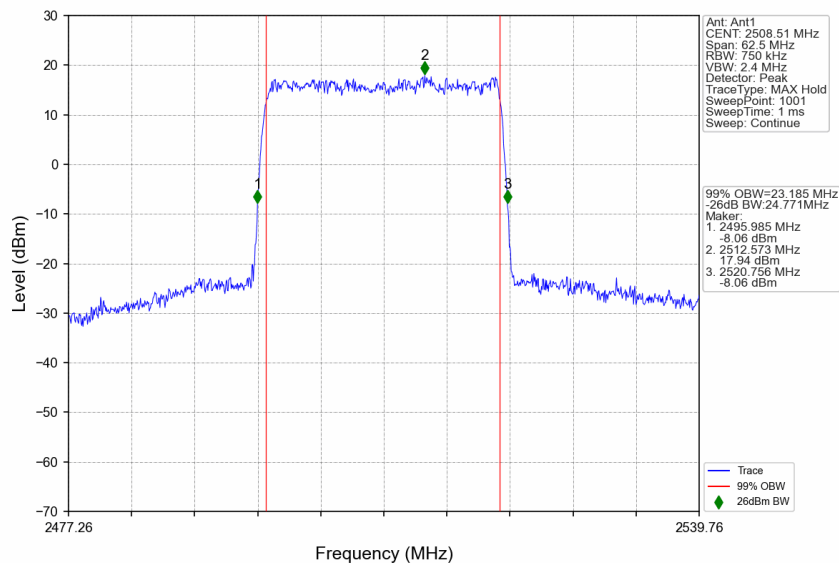
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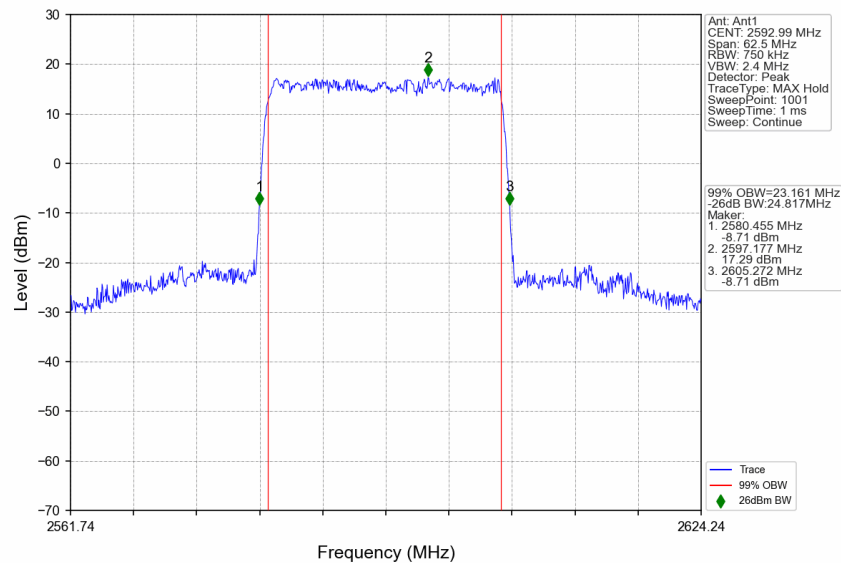
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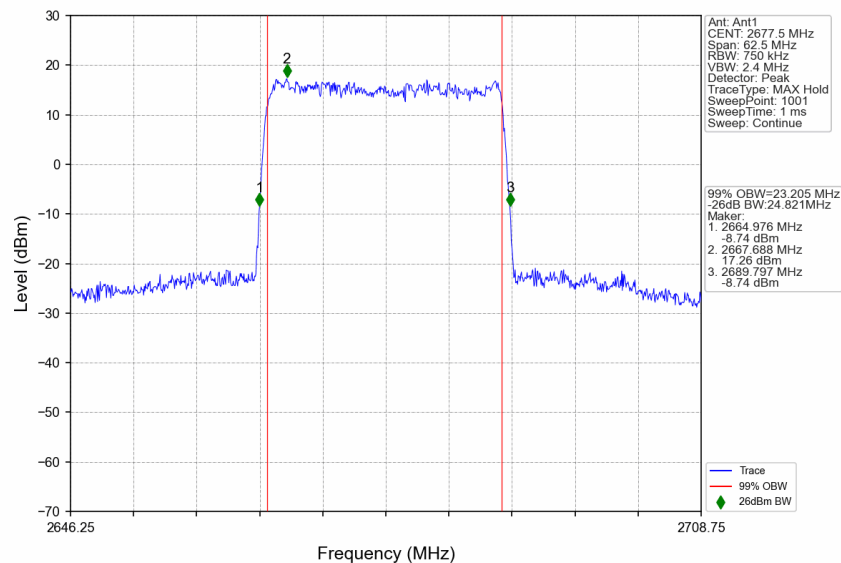
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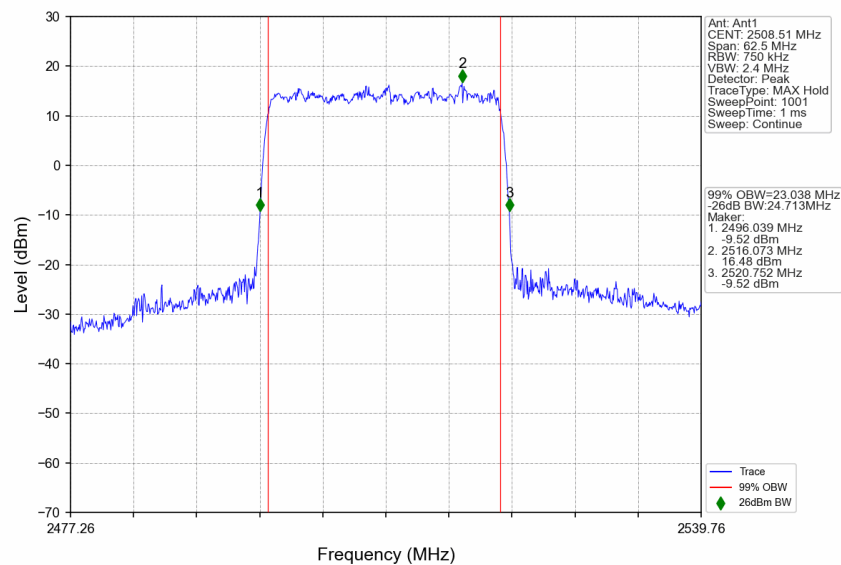
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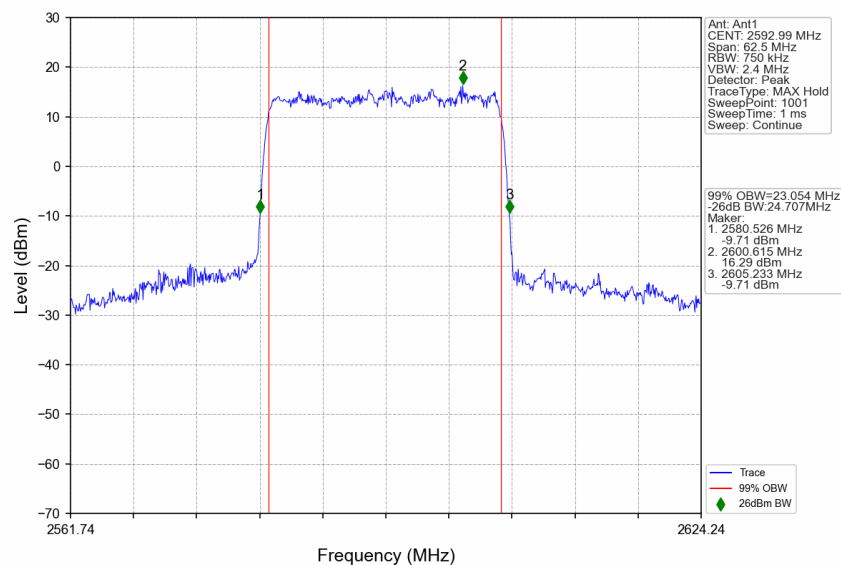
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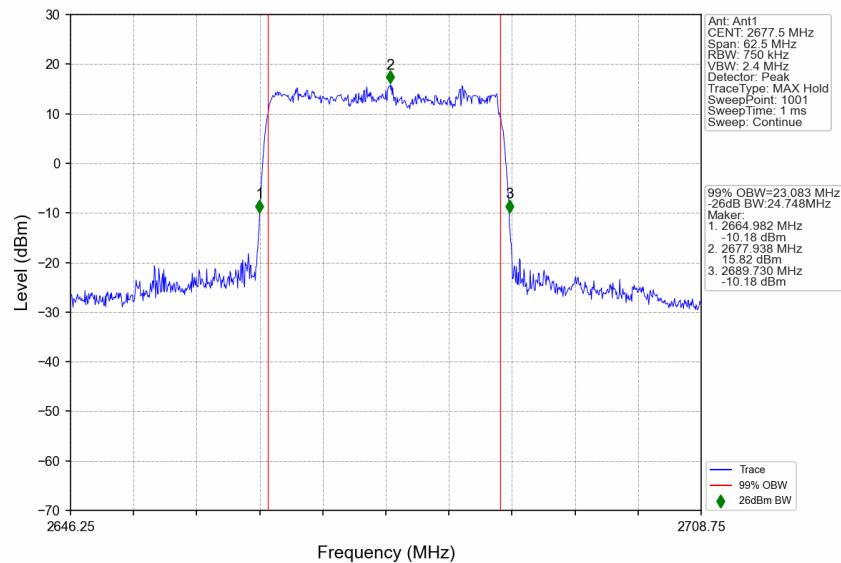
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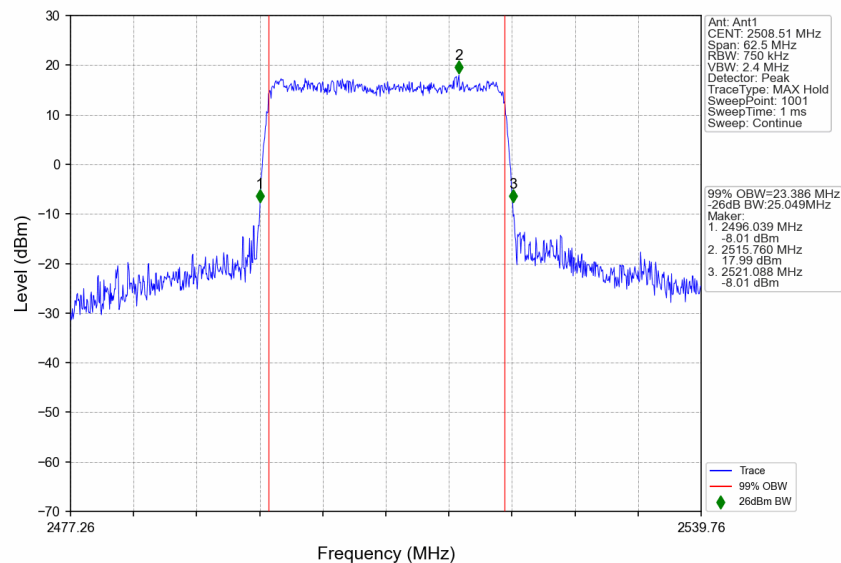
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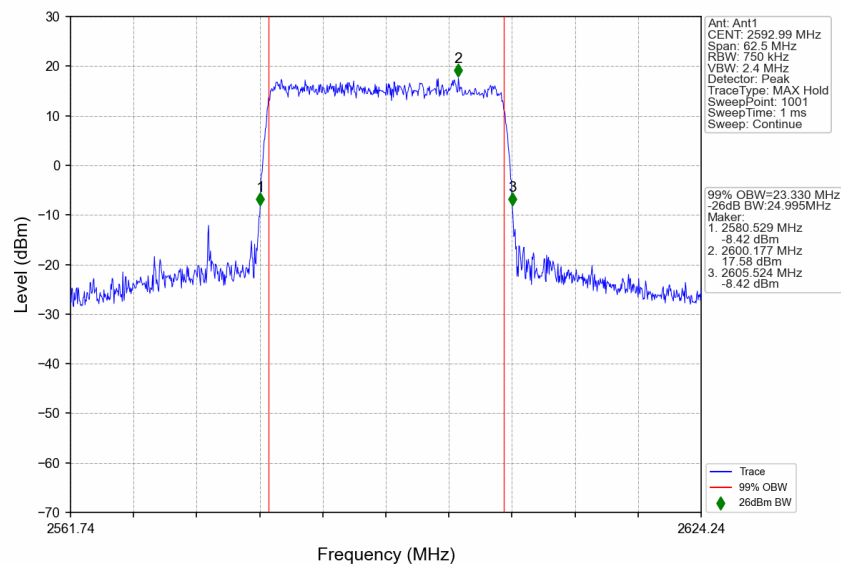
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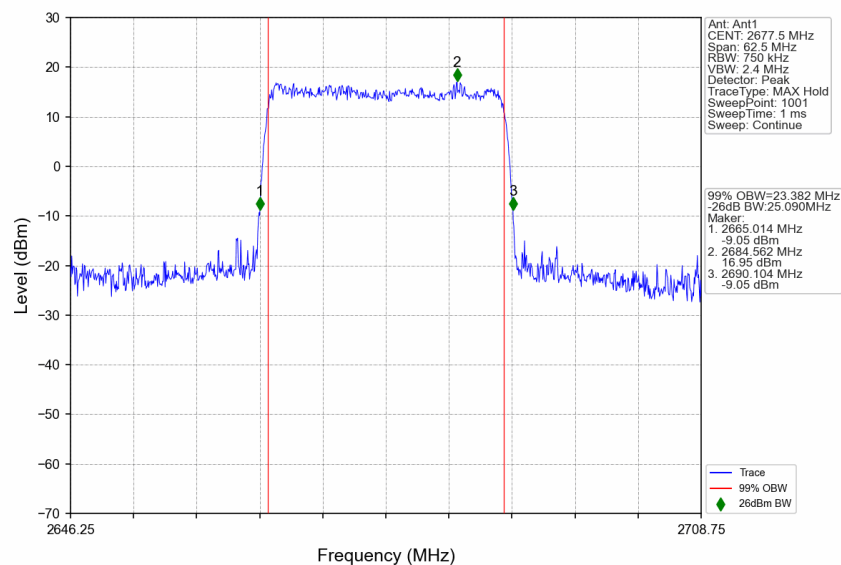
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2677.5MHz_Outer_Full



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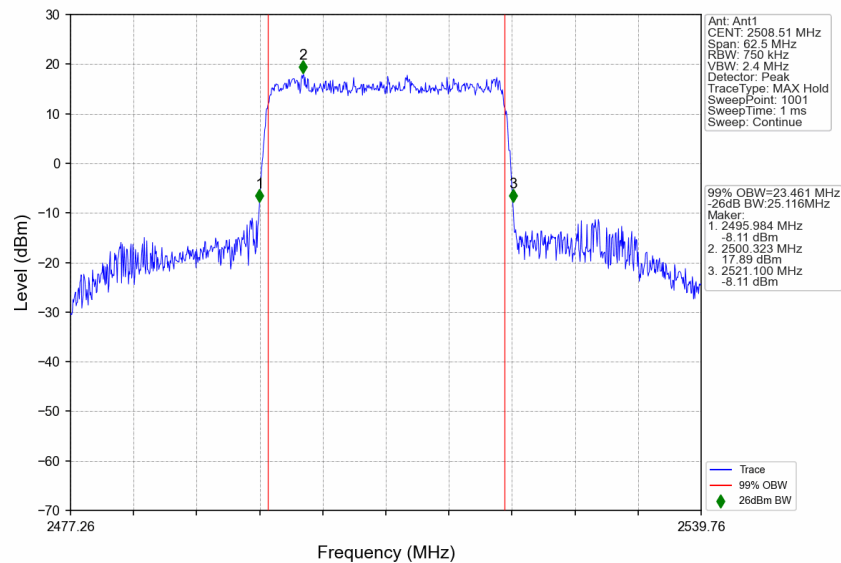
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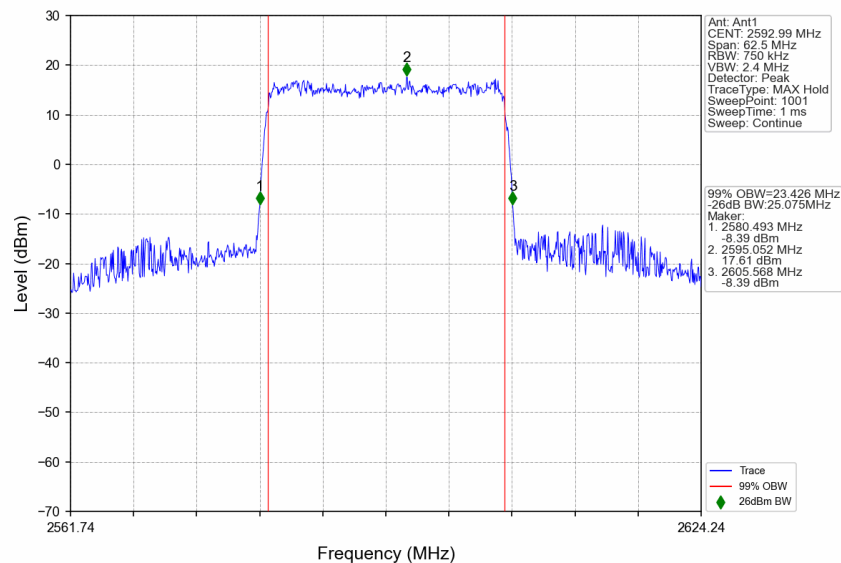
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2508.51MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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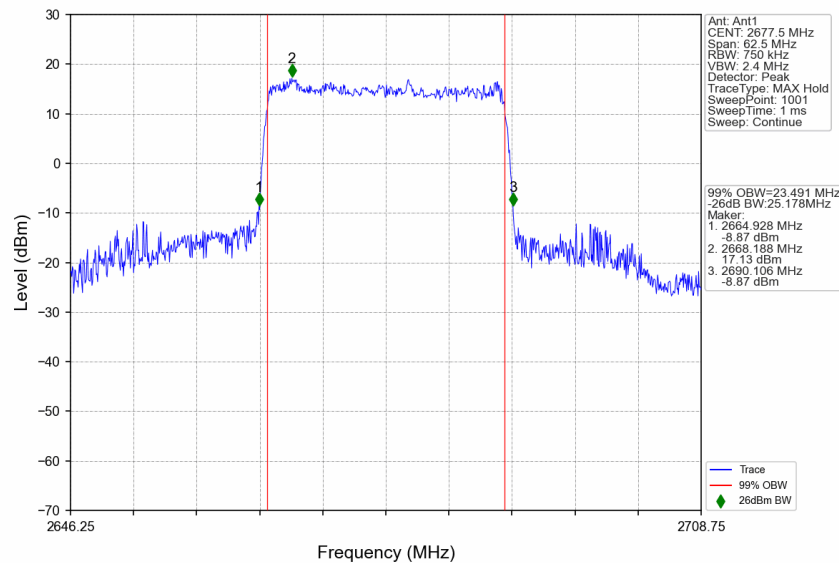
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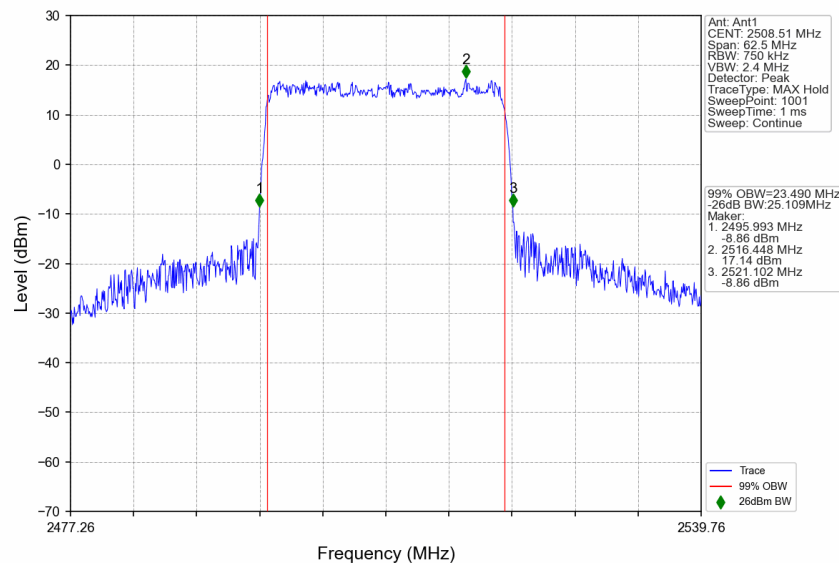
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2677.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2508.51MHz_Outer_Full



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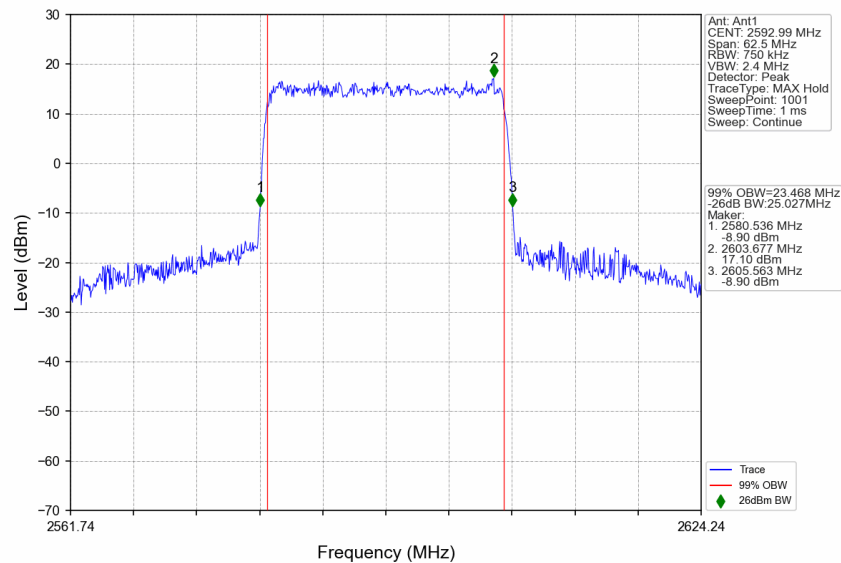
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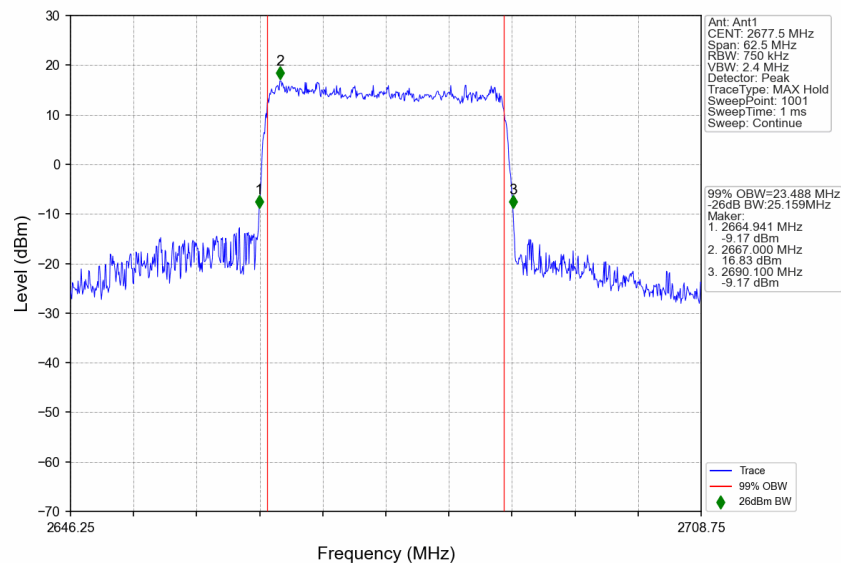
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_2677.5MHz_Outer_Full



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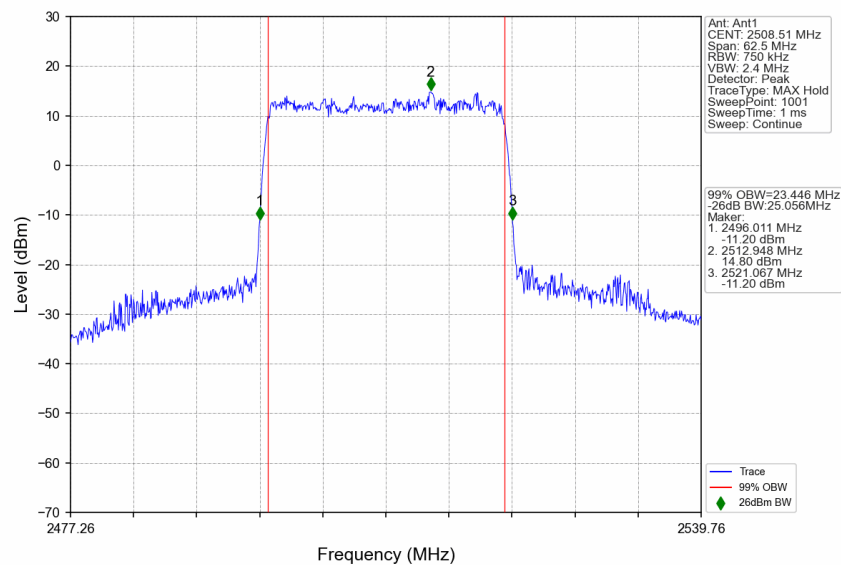
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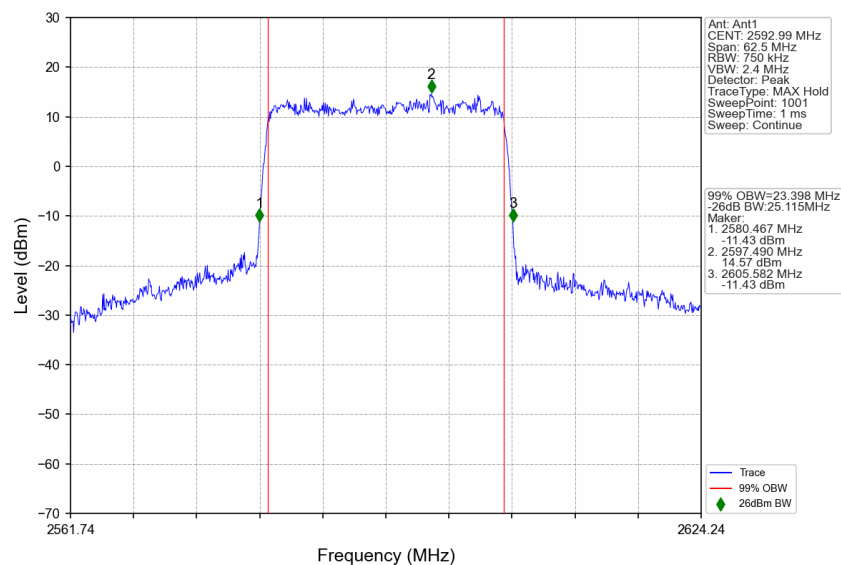
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n41_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2508.51MHz_Outer_Full



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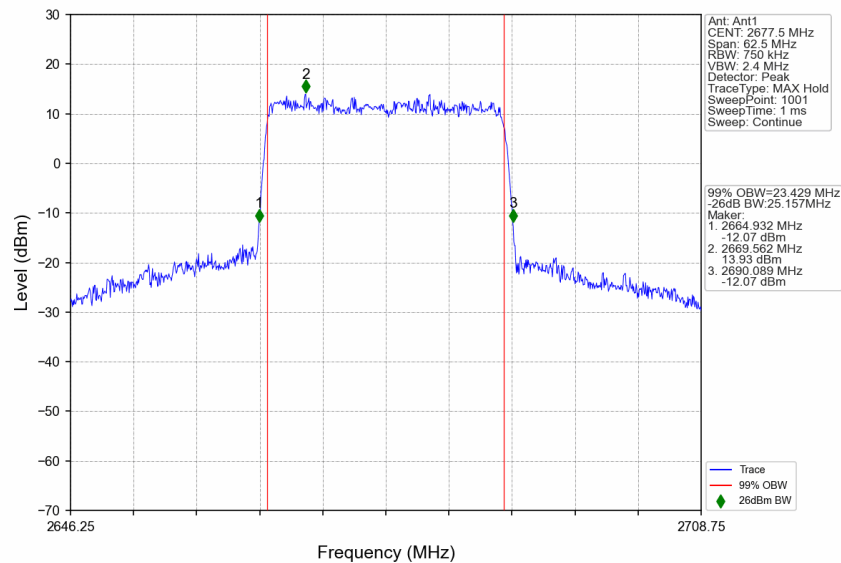
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4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

5G NR n41 SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2511	Outer Full	27.07	29.08	/	Pass
	2592.99	Outer Full	27.04	28.99	/	Pass
	2674.98	Outer Full	27.15	29.16	/	Pass
DFT-s-OFDM QPSK	2511	Outer Full	27.11	29.03	/	Pass
	2592.99	Outer Full	27.07	29.19	/	Pass
	2674.98	Outer Full	27.12	29.26	/	Pass
DFT-s-OFDM 16 QAM	2511	Outer Full	27.10	29.18	/	Pass
	2592.99	Outer Full	27.11	29.05	/	Pass
	2674.98	Outer Full	27.25	29.19	/	Pass
DFT-s-OFDM 64 QAM	2511	Outer Full	27.11	29.16	/	Pass
	2592.99	Outer Full	27.12	29.22	/	Pass
	2674.98	Outer Full	27.17	29.19	/	Pass
DFT-s-OFDM 256 QAM	2511	Outer Full	27.12	29.17	/	Pass
	2592.99	Outer Full	27.10	29.11	/	Pass
	2674.98	Outer Full	27.12	29.16	/	Pass
CP-OFDM QPSK	2511	Outer Full	28.06	30.24	/	Pass
	2592.99	Outer Full	27.98	30.12	/	Pass
	2674.98	Outer Full	28.09	30.19	/	Pass
CP-OFDM 16 QAM	2511	Outer Full	28.16	30.08	/	Pass
	2592.99	Outer Full	28.12	30.14	/	Pass
	2674.98	Outer Full	28.11	30.31	/	Pass
CP-OFDM 64 QAM	2511	Outer Full	28.05	30.18	/	Pass
	2592.99	Outer Full	28.07	30.13	/	Pass
	2674.98	Outer Full	28.07	30.17	/	Pass
CP-OFDM 256 QAM	2511	Outer Full	28.09	30.19	/	Pass
	2592.99	Outer Full	28.08	30.23	/	Pass
	2674.98	Outer Full	28.08	30.14	/	Pass



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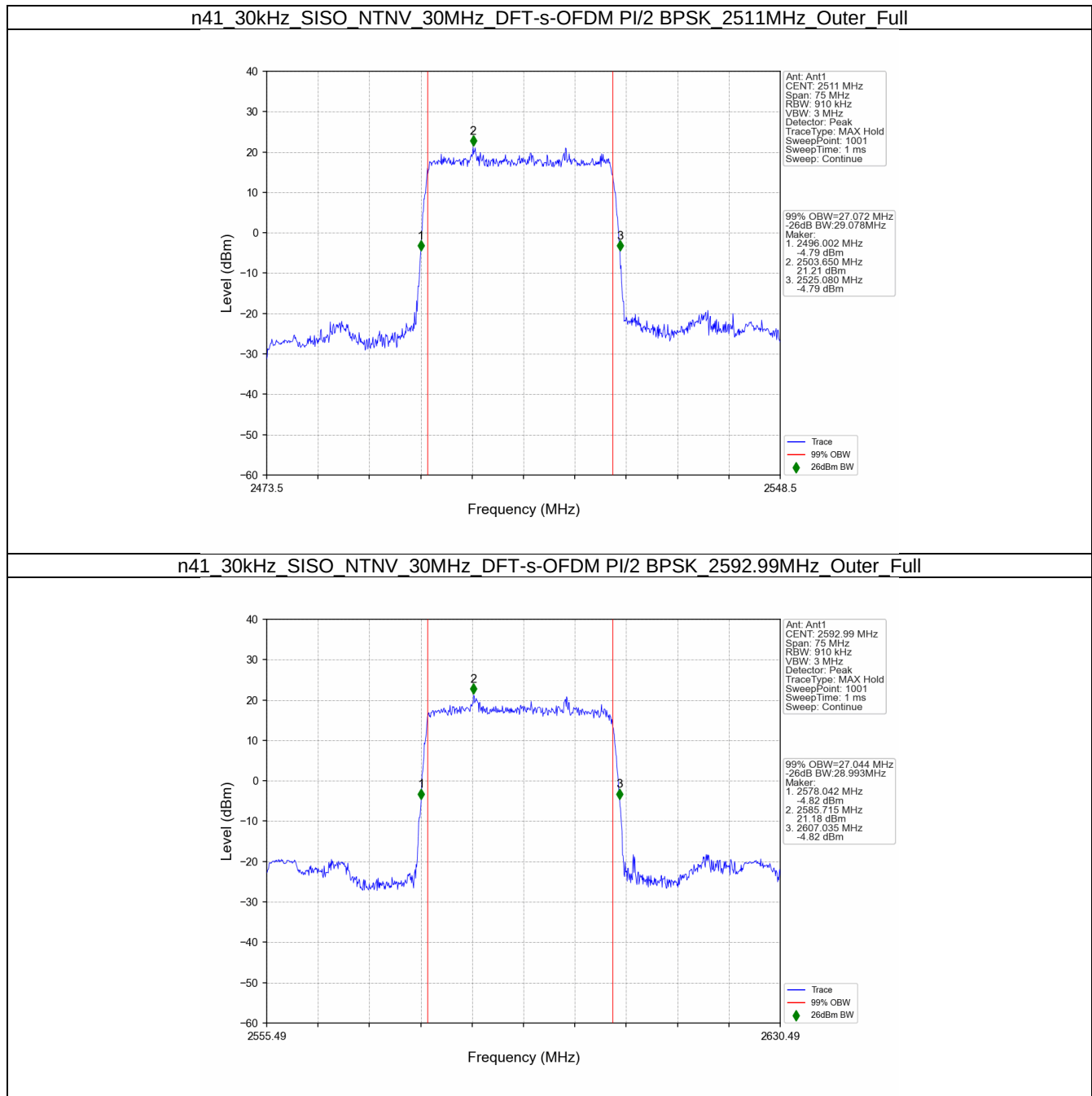
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4.12.2 Test Graph



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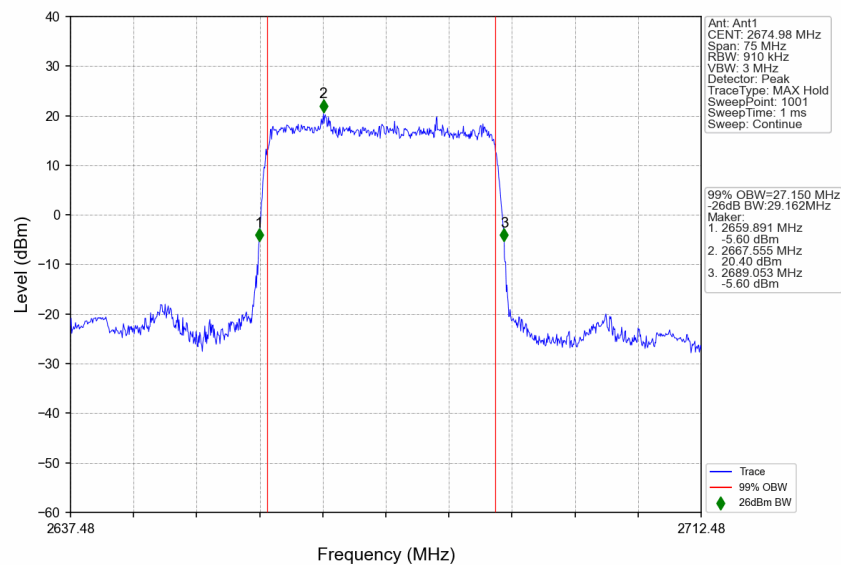
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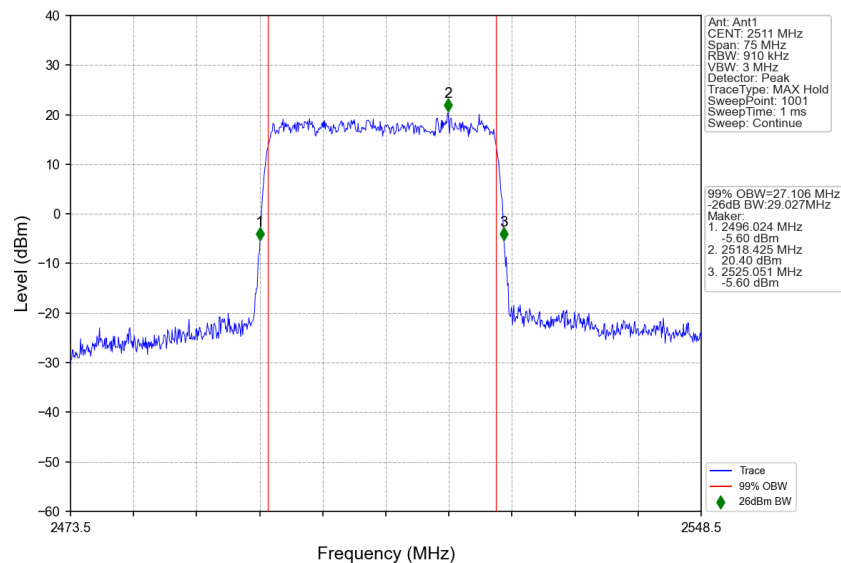
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full



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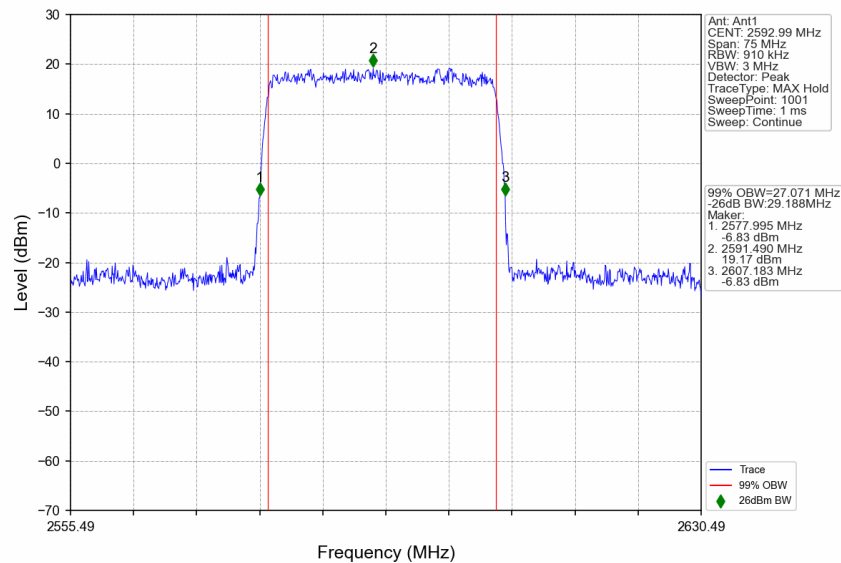
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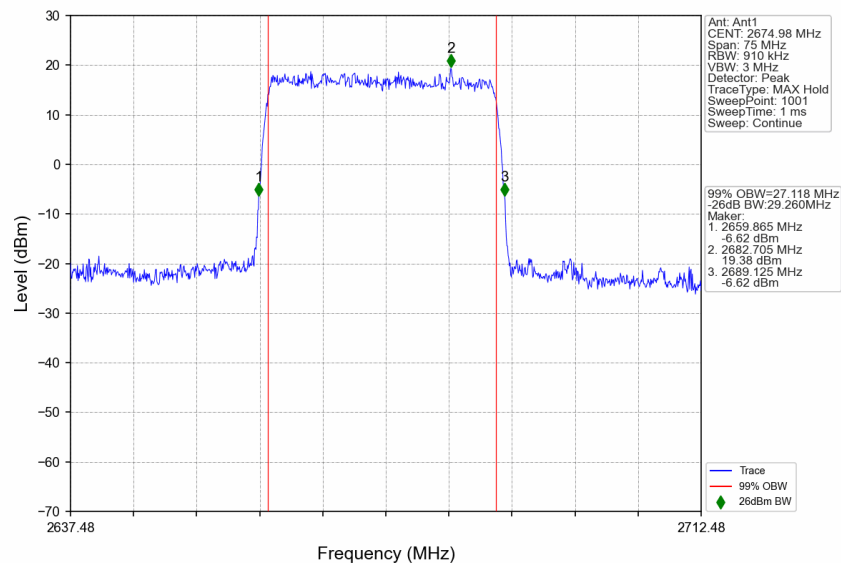
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2674.98MHz_Outer_Full



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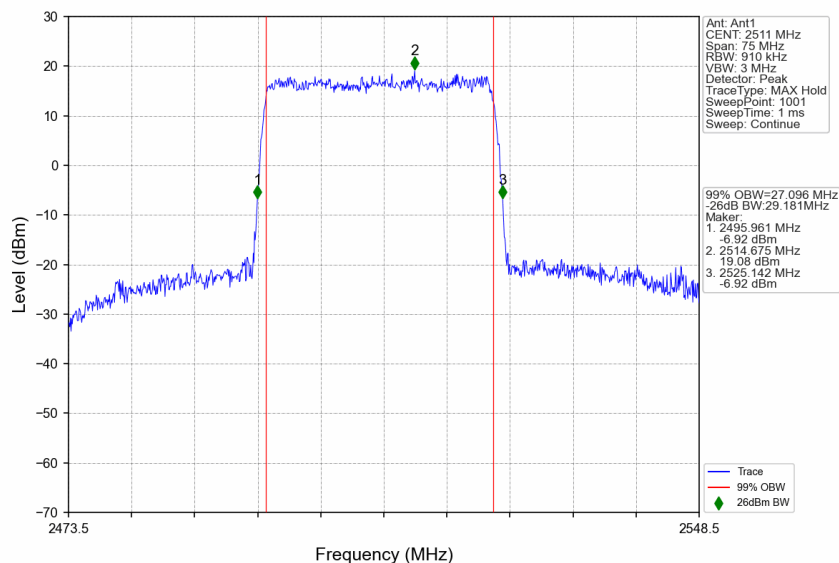
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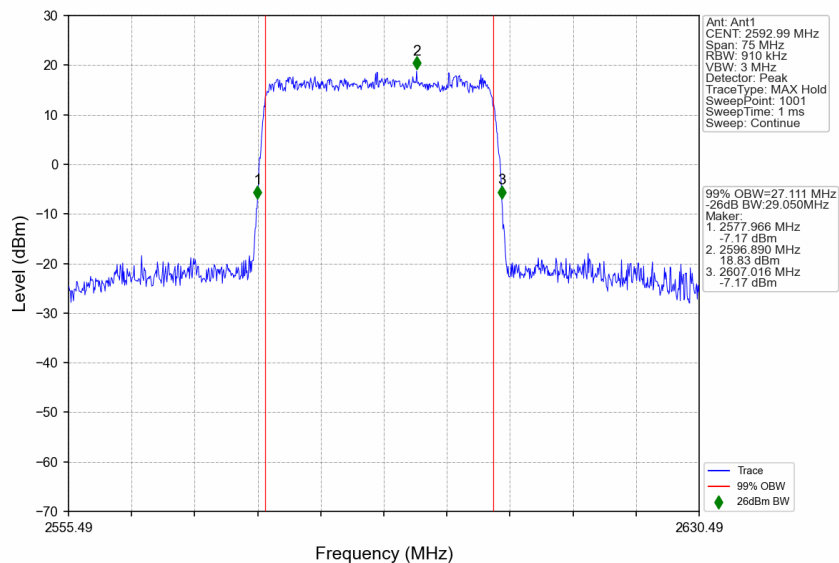
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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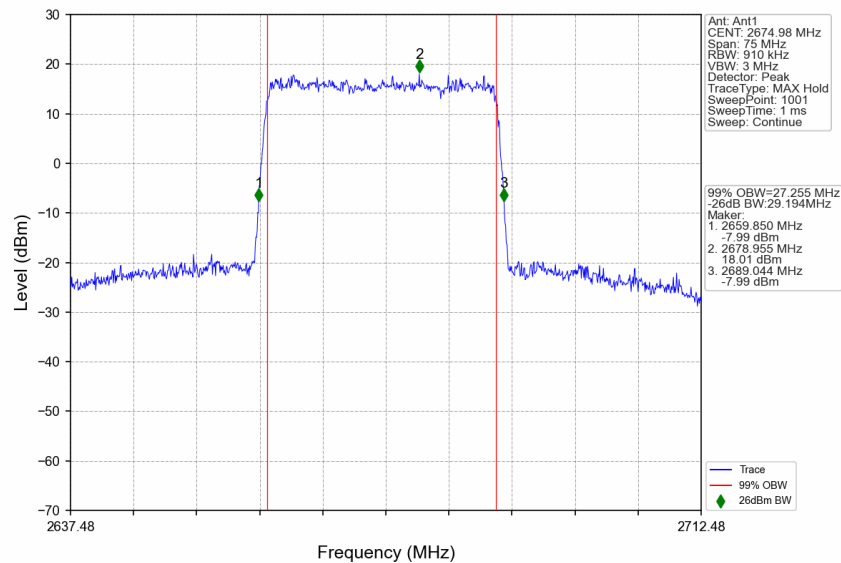
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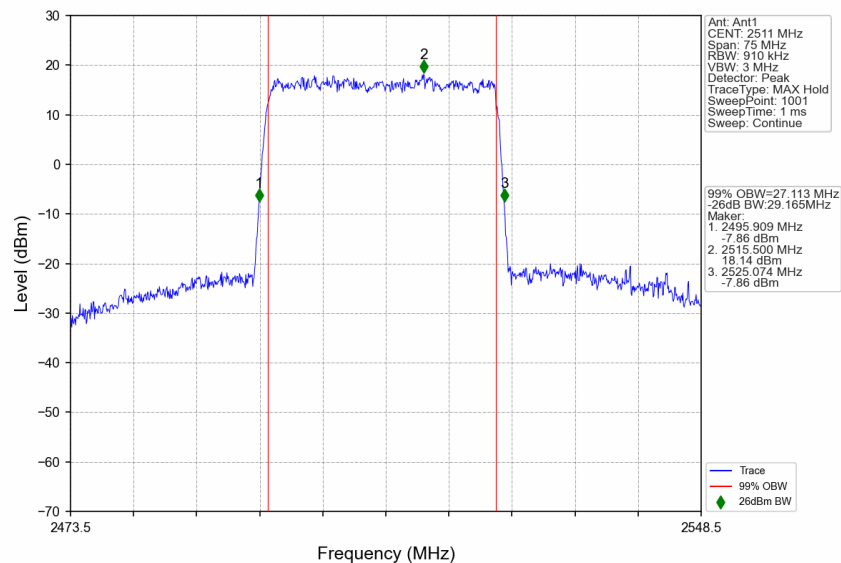
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2511MHz_Outer_Full



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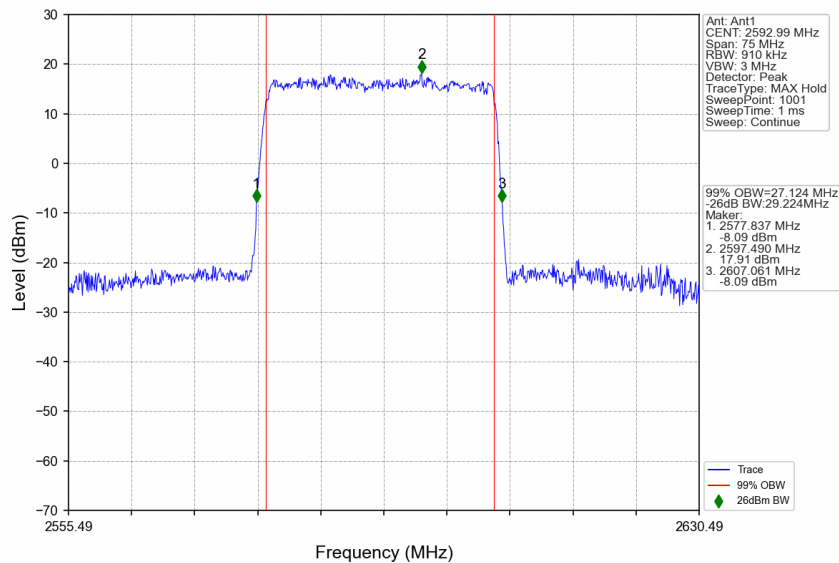
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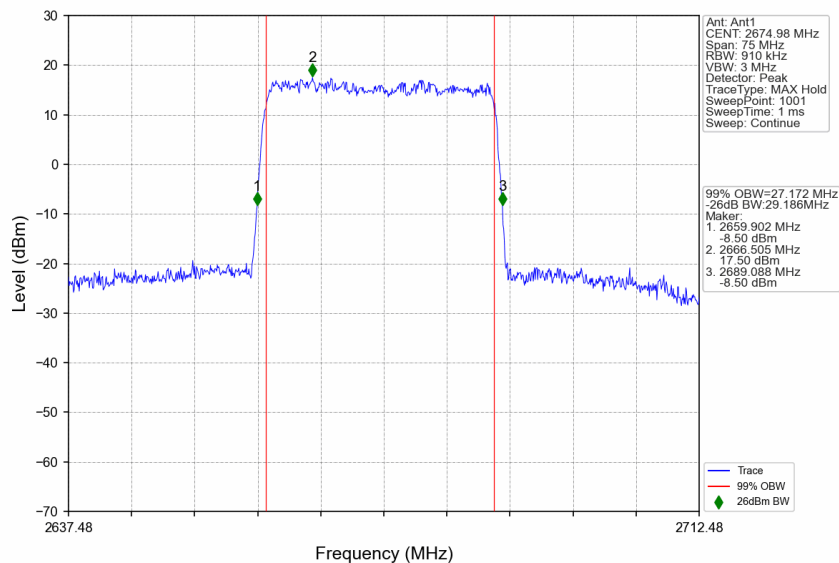
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_2674.98MHz_Outer_Full



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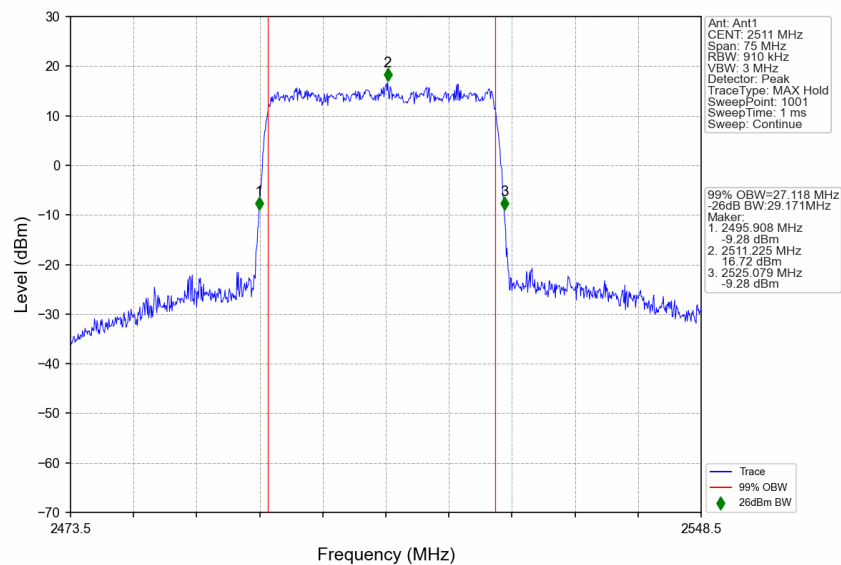
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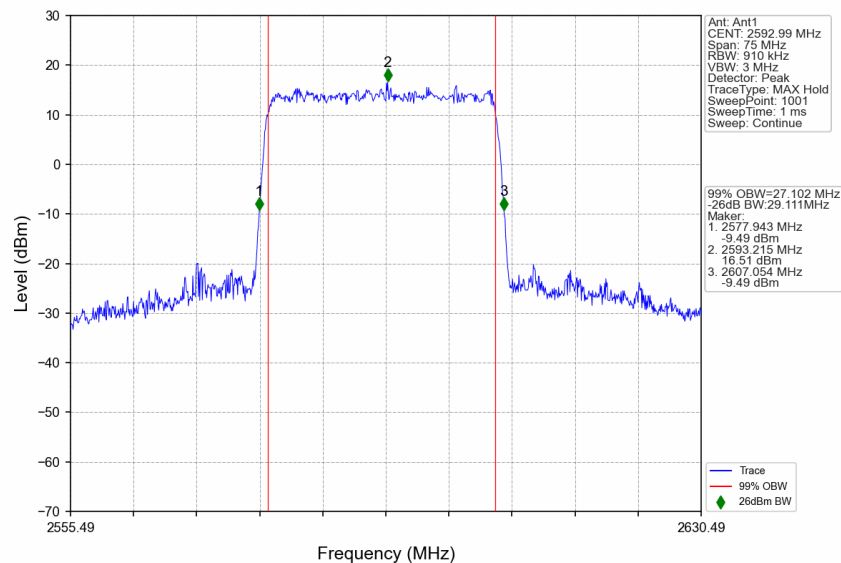
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256 QAM_2511MHz_Outer_Full



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