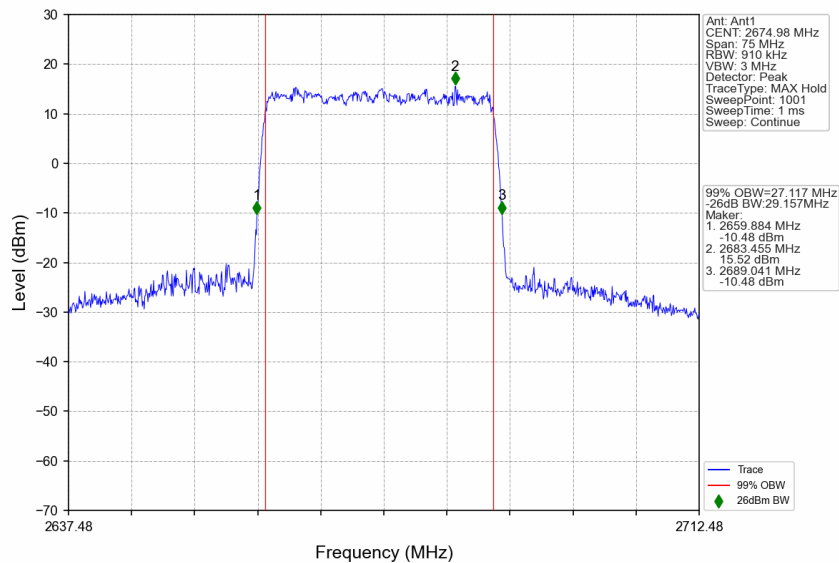
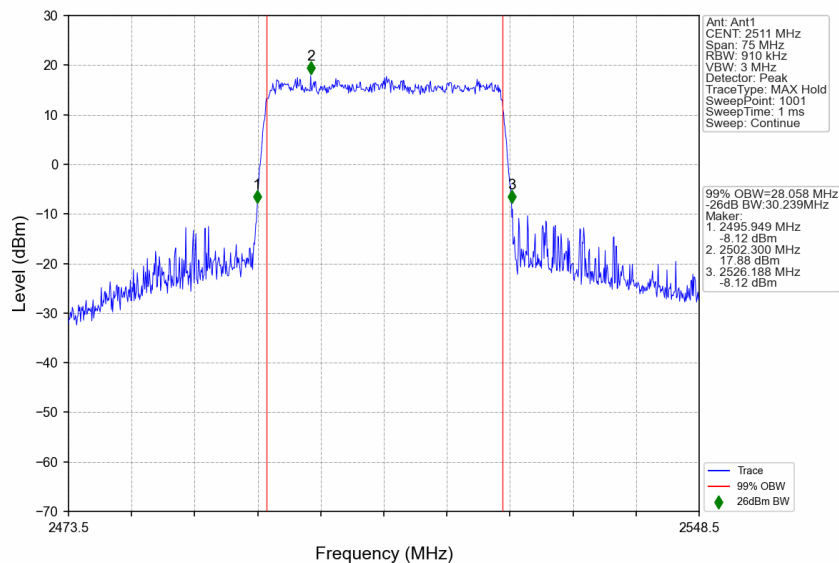


n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2511MHz_Outer_Full



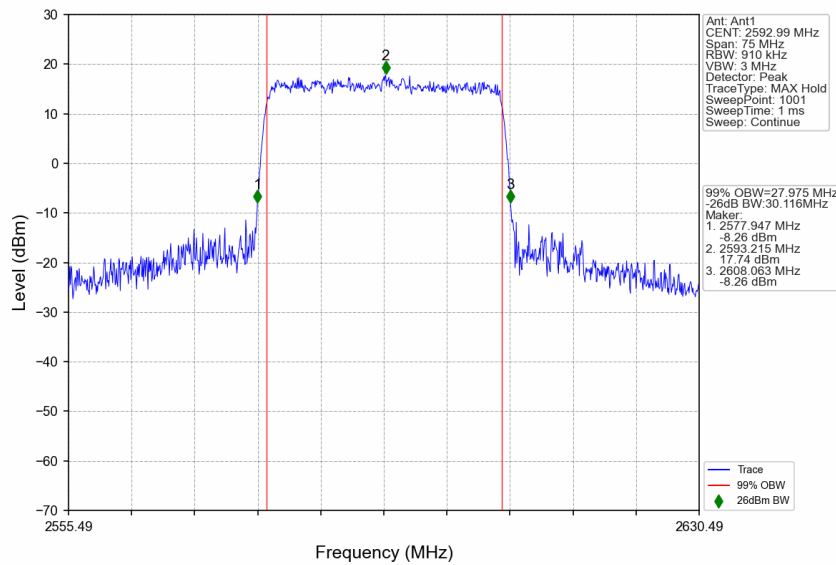
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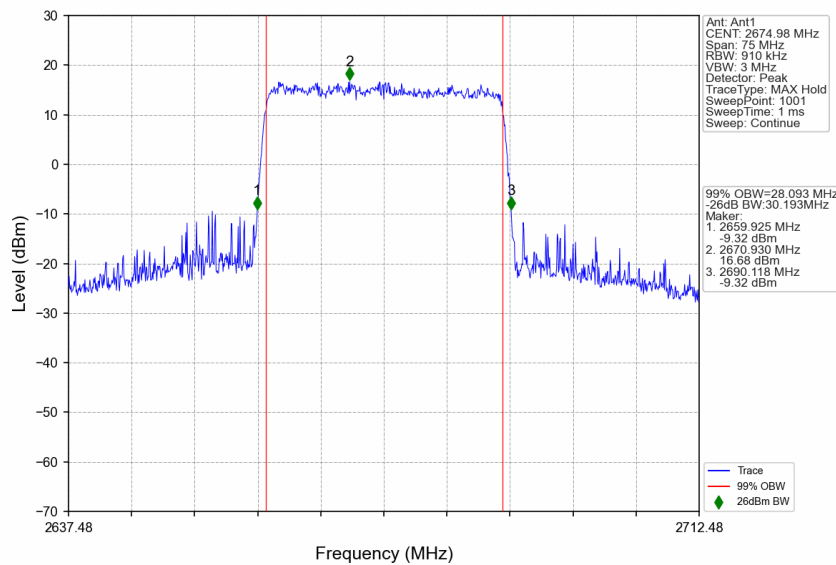
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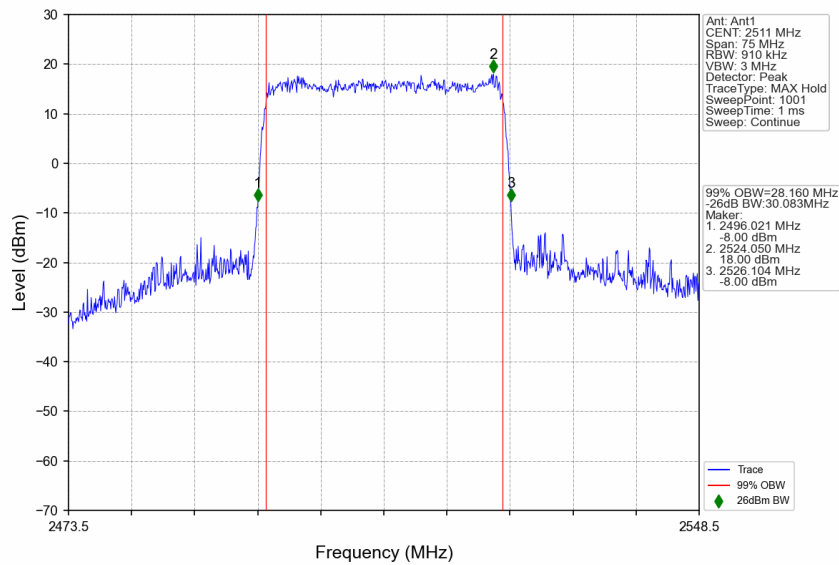


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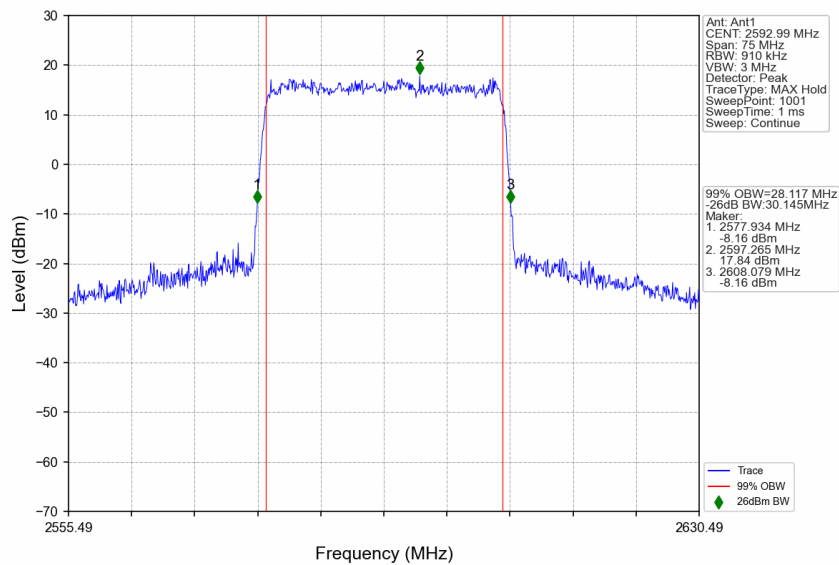
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full

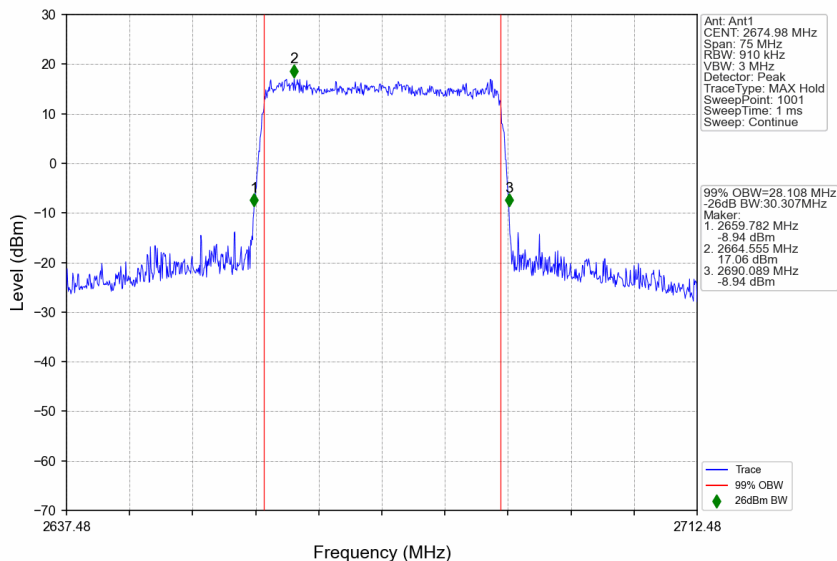


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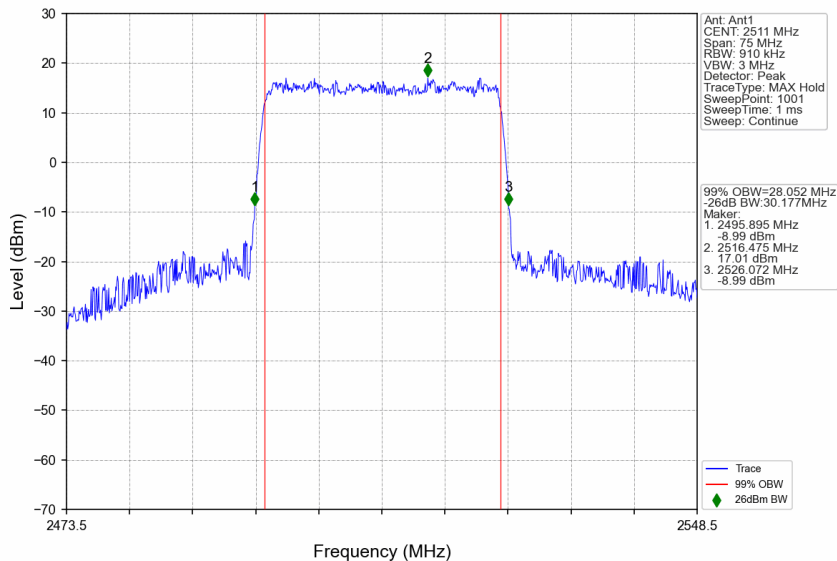
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2511MHz_Outer_Full

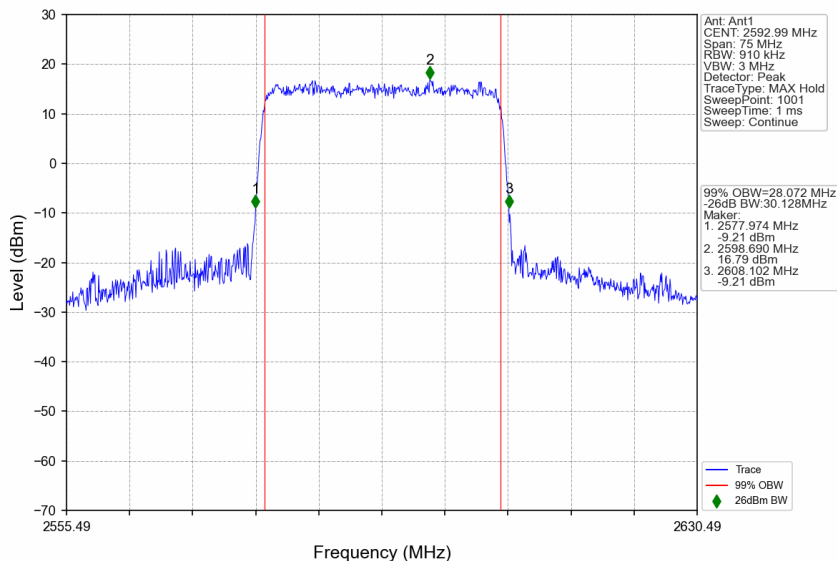


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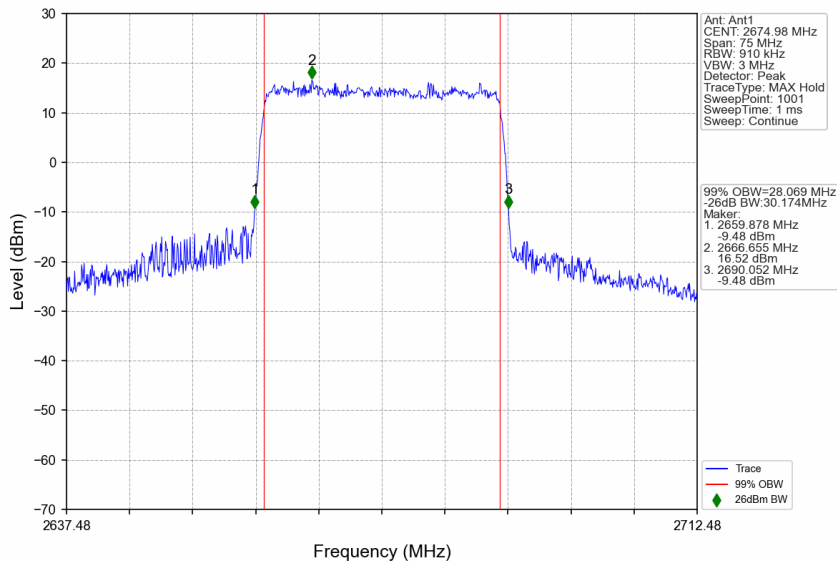
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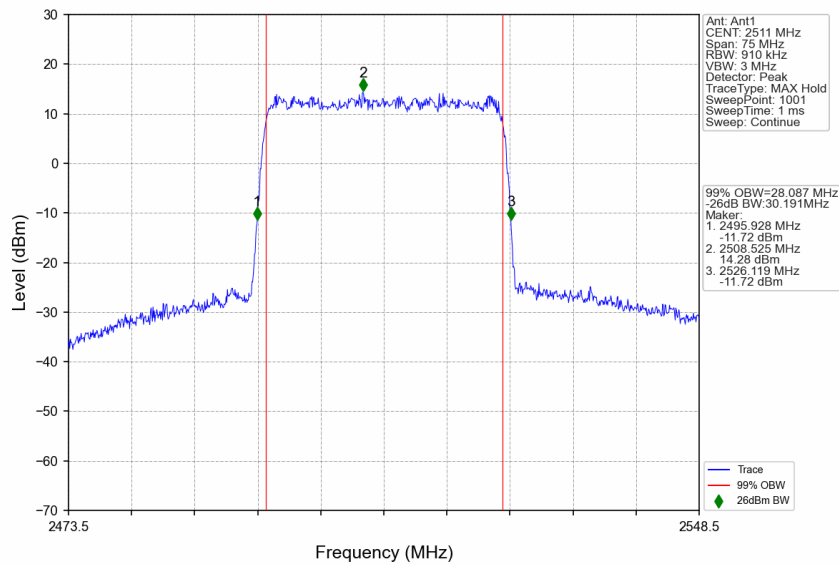


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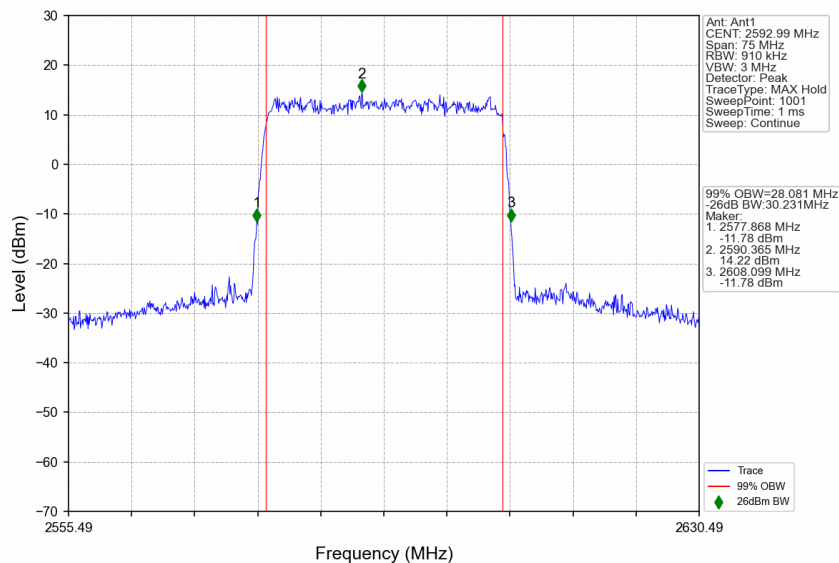
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2511MHz_Outer_Full



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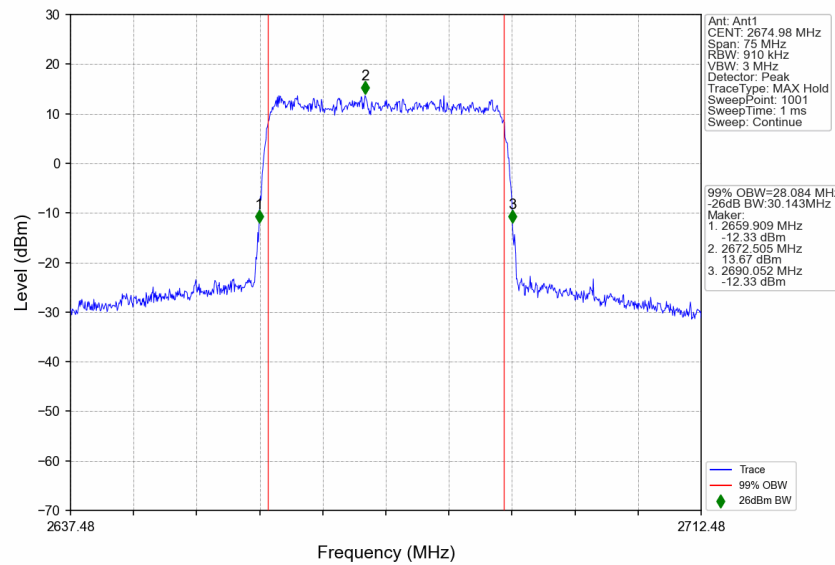


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 Wireless Laboratory

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4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

5G NR n41 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	2516.01	Outer_Full	36.12	38.76	/	Pass
	2592.99	Outer_Full	36.17	38.71	/	Pass
	2670	Outer_Full	36.21	38.73	/	Pass
DFT-s-OFDM QPSK	2516.01	Outer_Full	36.13	38.75	/	Pass
	2592.99	Outer_Full	36.13	38.70	/	Pass
	2670	Outer_Full	36.09	38.73	/	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	36.05	38.65	/	Pass
	2592.99	Outer_Full	36.05	38.59	/	Pass
	2670	Outer_Full	36.05	38.67	/	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	36.23	38.78	/	Pass
	2592.99	Outer_Full	36.16	38.79	/	Pass
	2670	Outer_Full	36.19	38.73	/	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	36.07	38.60	/	Pass
	2592.99	Outer_Full	35.99	38.68	/	Pass
	2670	Outer_Full	36.09	38.65	/	Pass
CP-OFDM QPSK	2516.01	Outer_Full	38.13	40.81	/	Pass
	2592.99	Outer_Full	38.12	40.79	/	Pass
	2670	Outer_Full	38.17	40.80	/	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	38.16	40.90	/	Pass
	2592.99	Outer_Full	38.10	40.76	/	Pass
	2670	Outer_Full	38.22	40.76	/	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	38.17	40.85	/	Pass
	2592.99	Outer_Full	38.19	40.76	/	Pass
	2670	Outer_Full	38.16	40.77	/	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	38.18	40.82	/	Pass
	2592.99	Outer_Full	38.08	40.84	/	Pass
	2670	Outer_Full	38.17	41.04	/	Pass

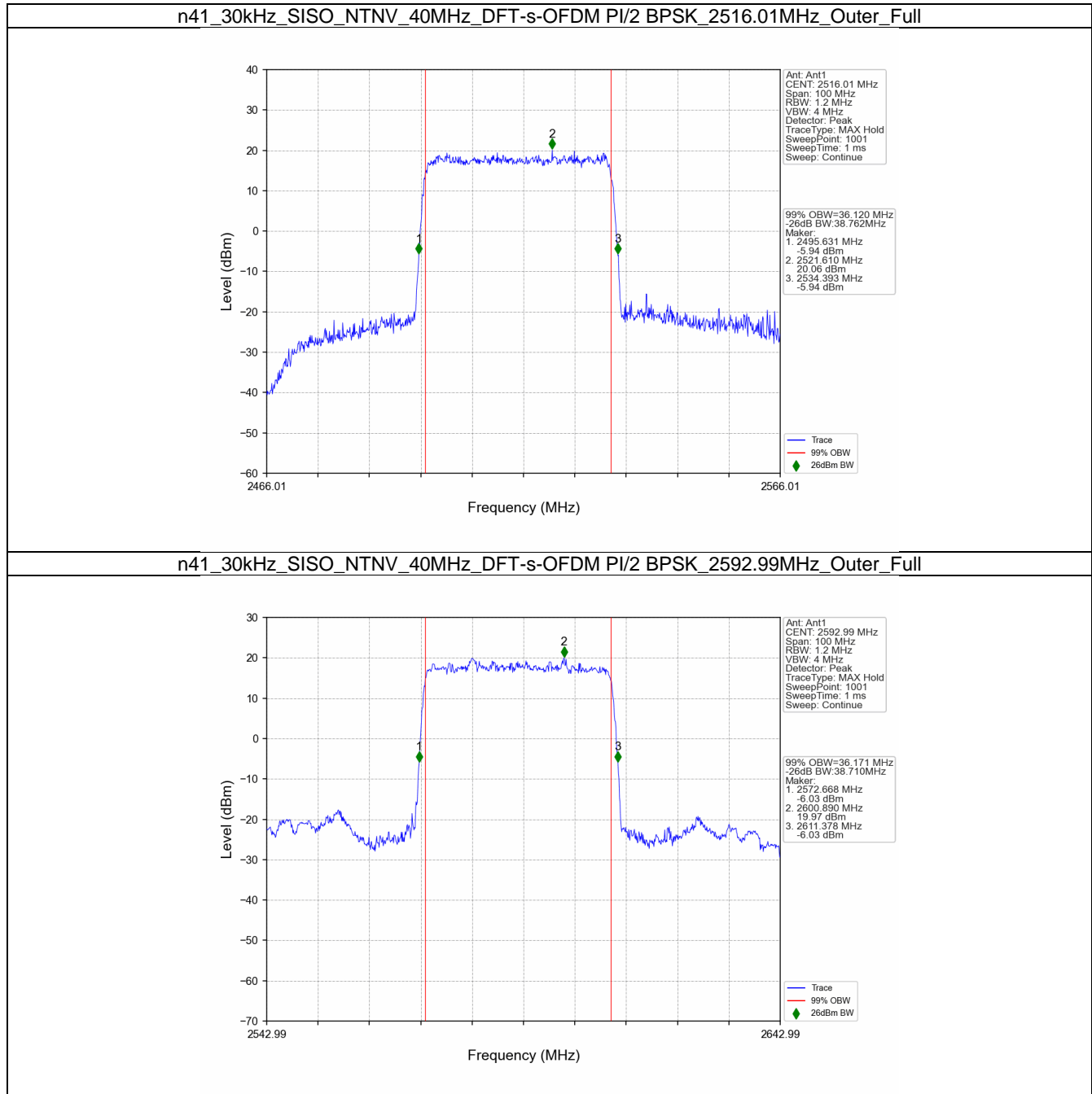


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4.13.2 Test Graph

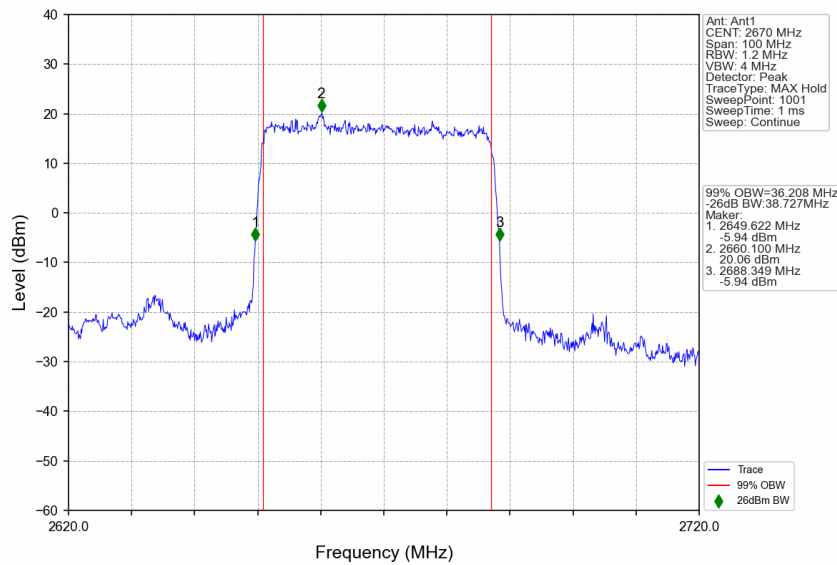


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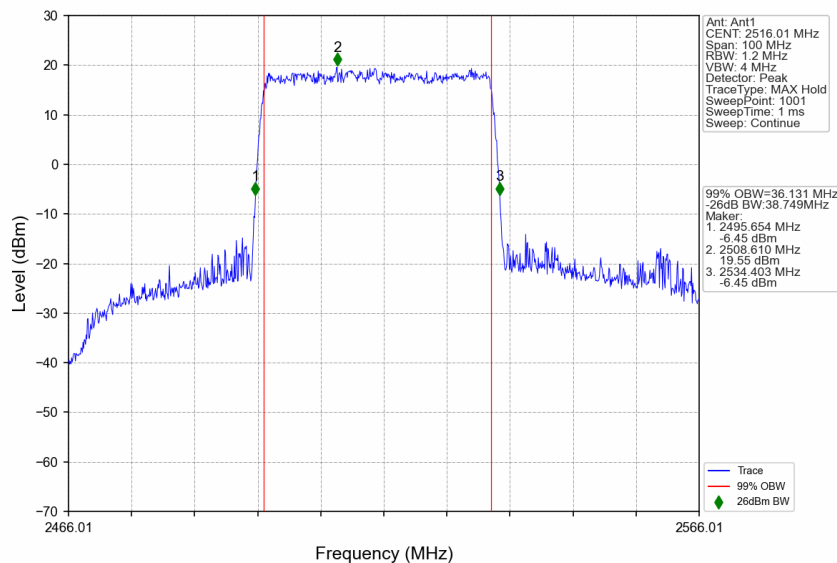
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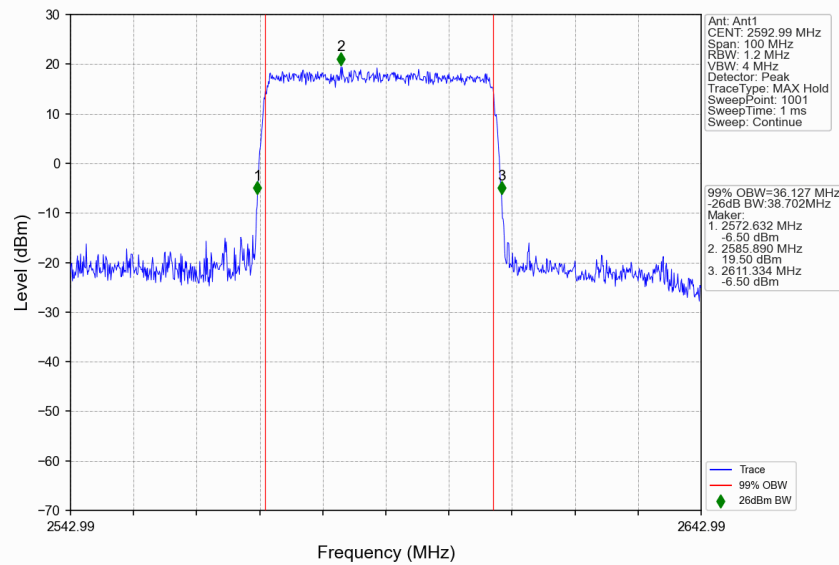


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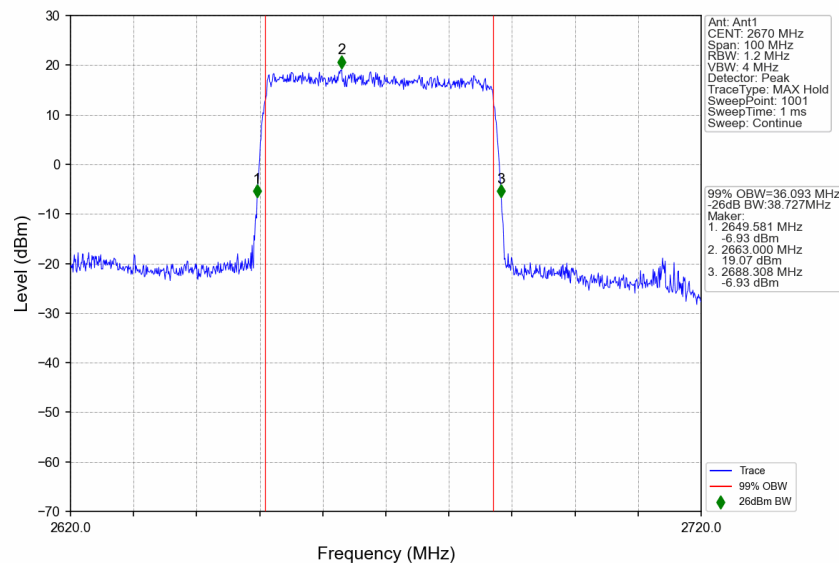
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2670MHz_Outer_Full

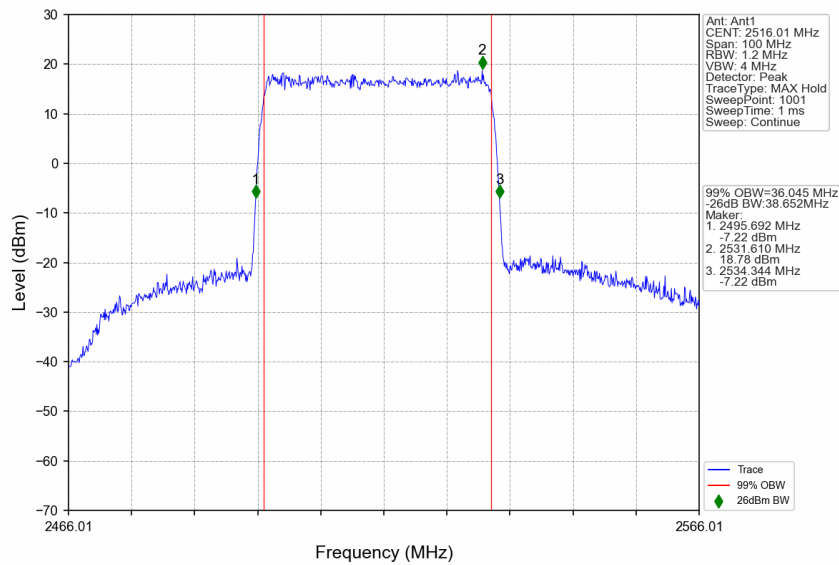


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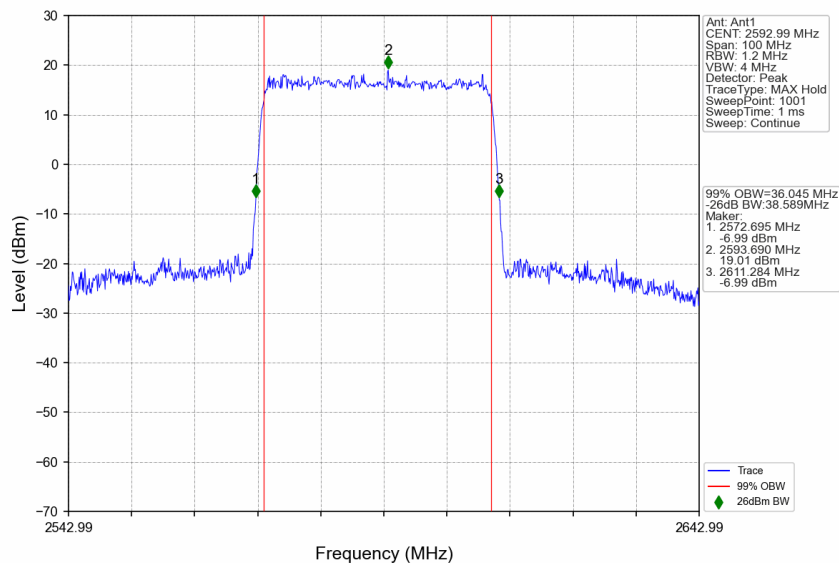
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2516.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full

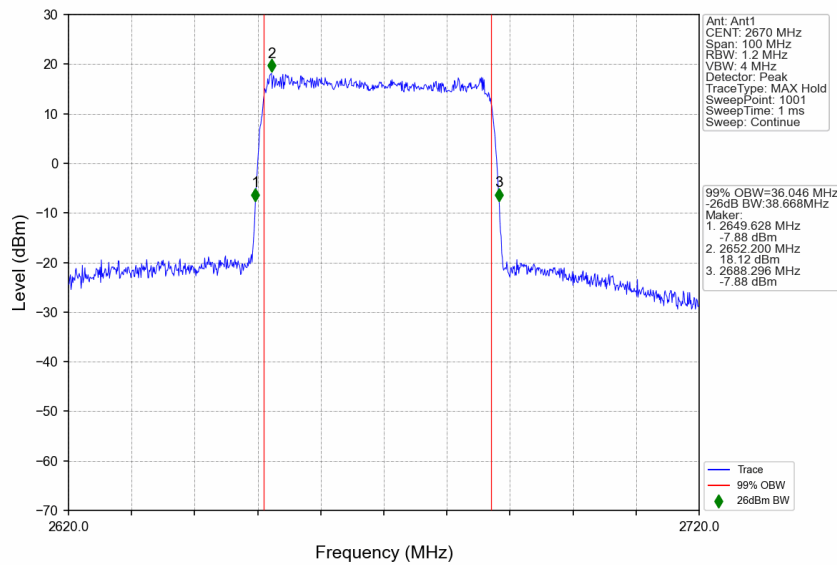


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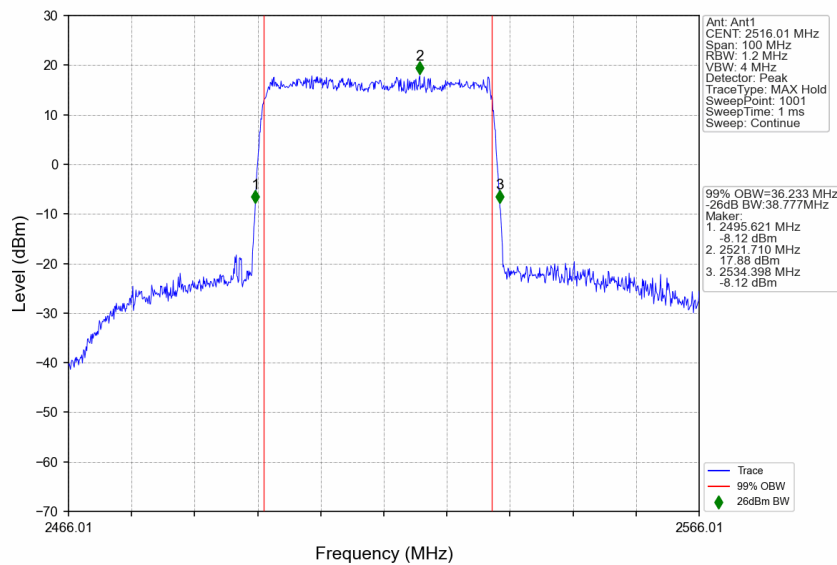
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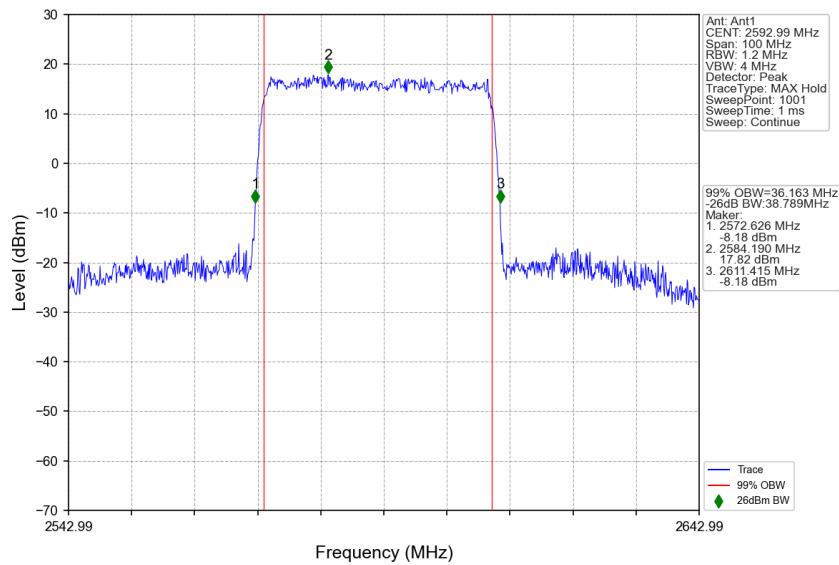


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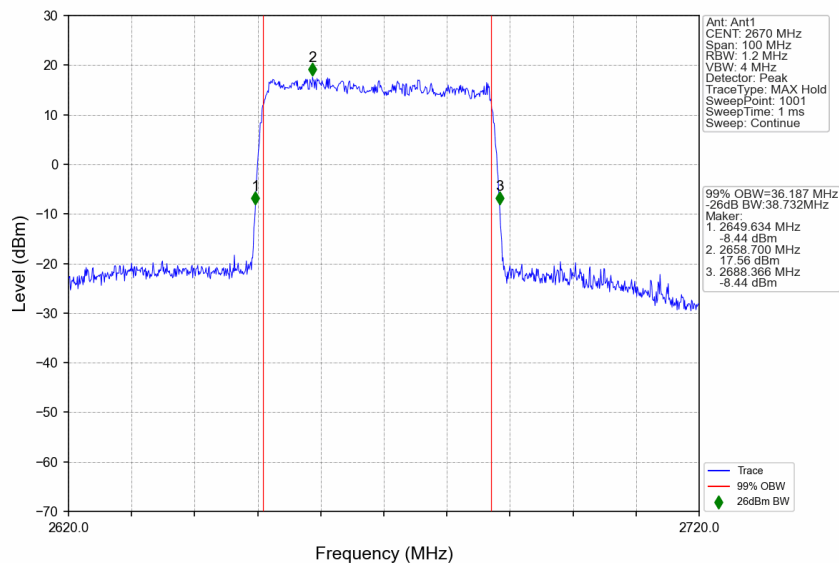
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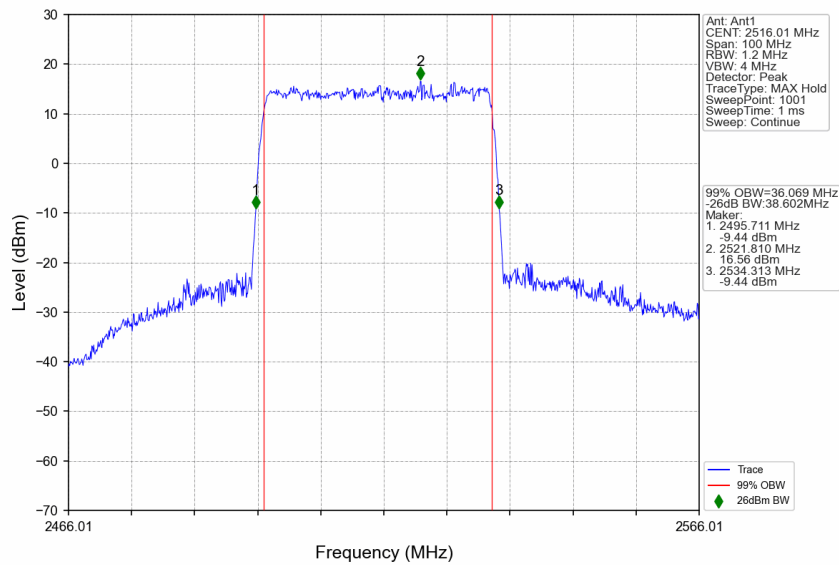
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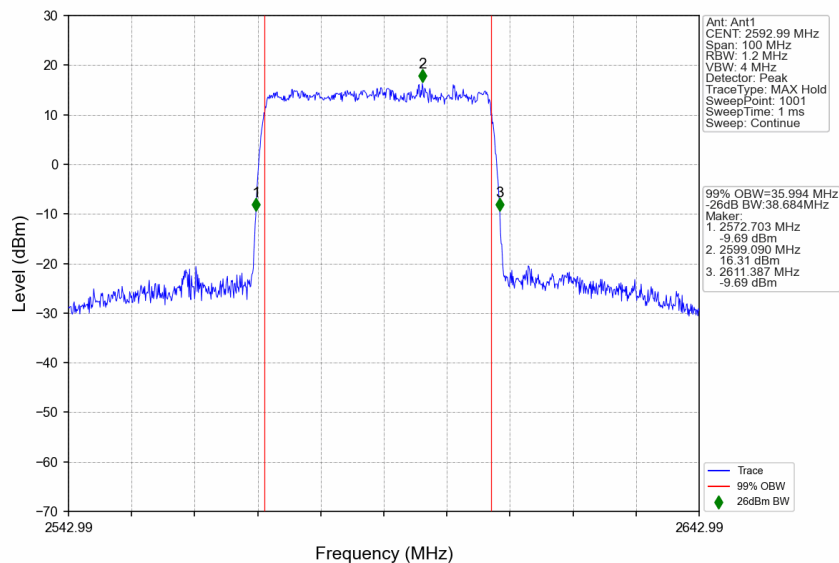
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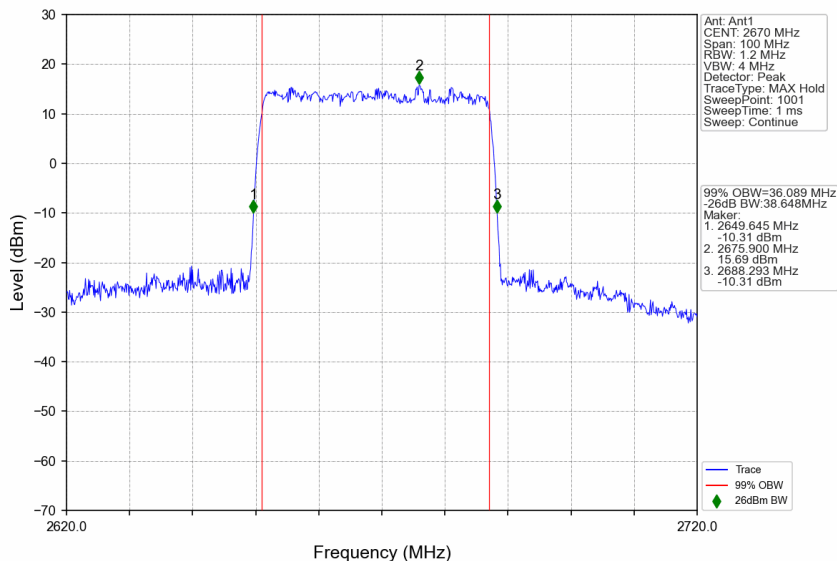


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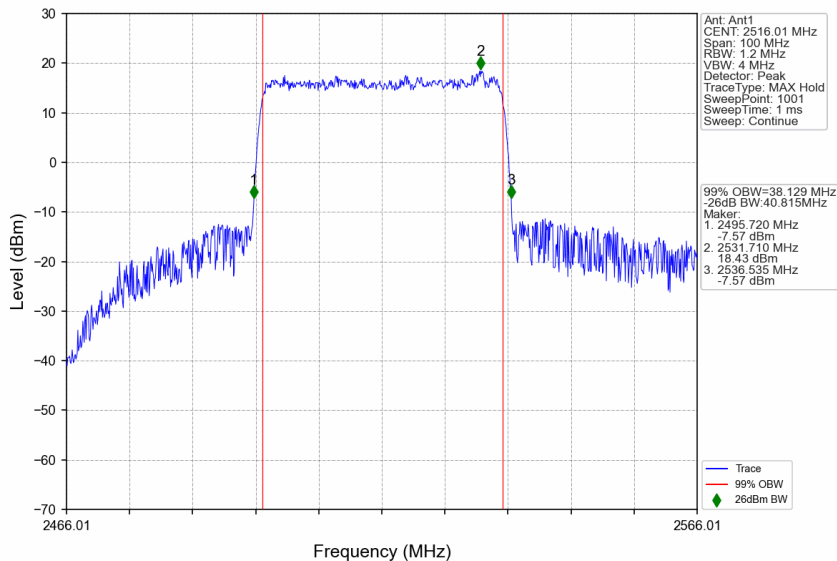
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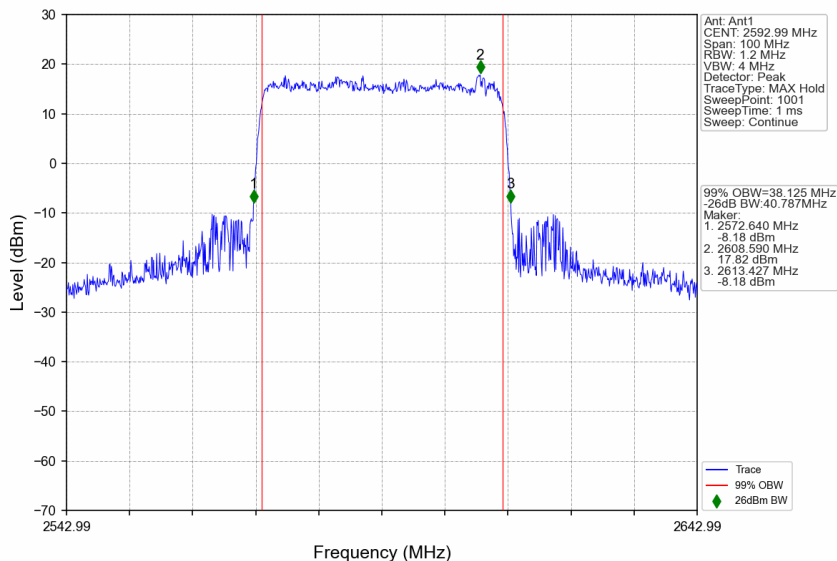


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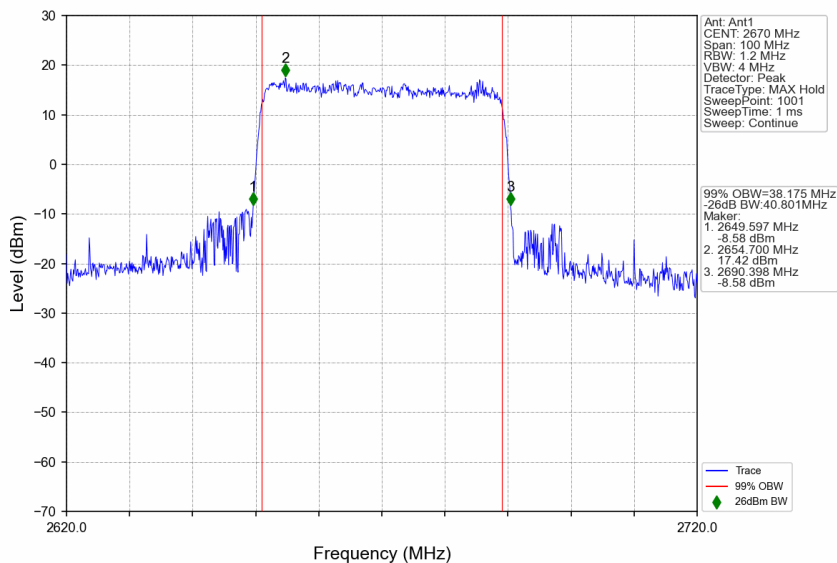
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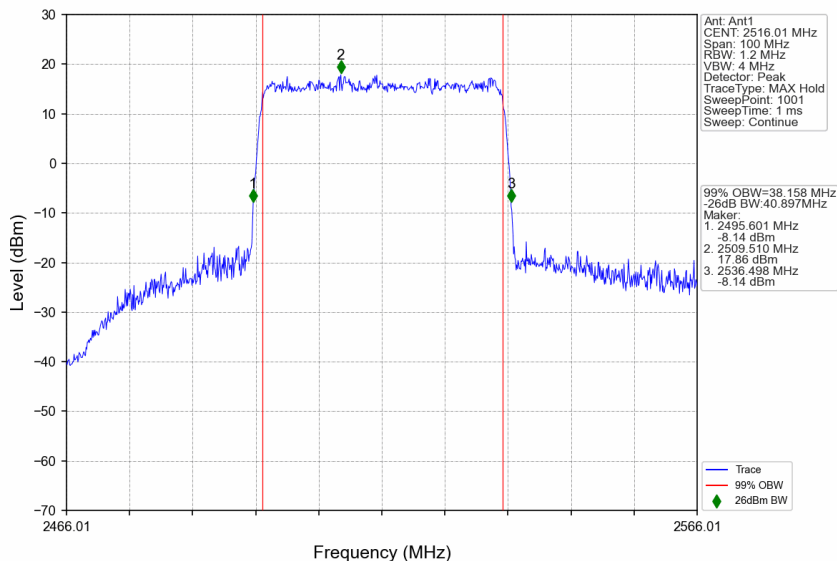


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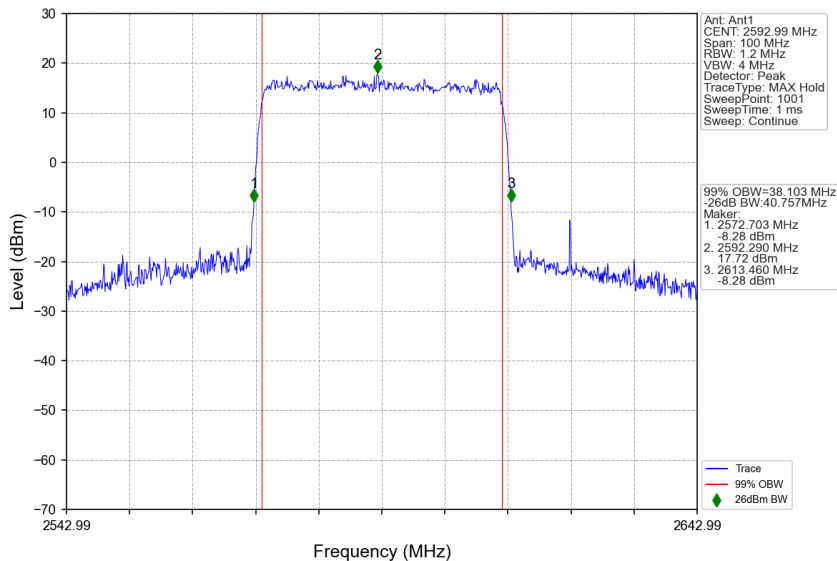
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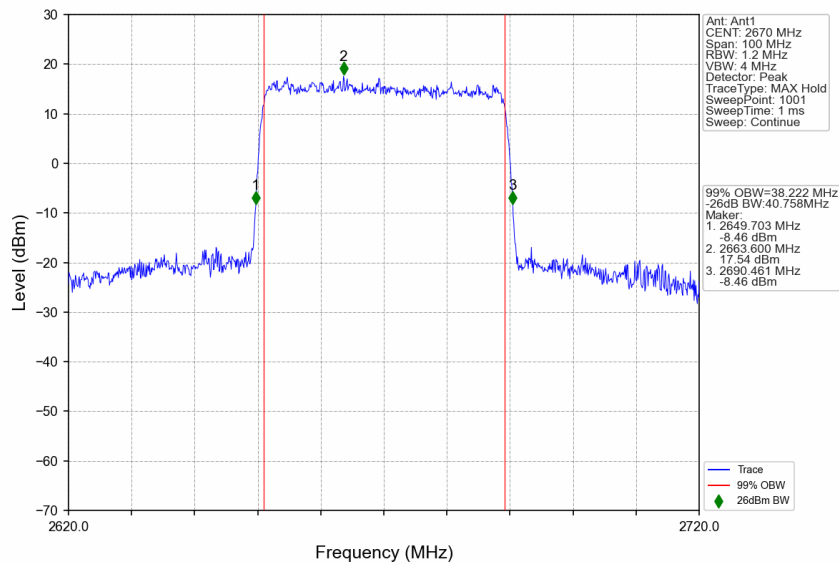


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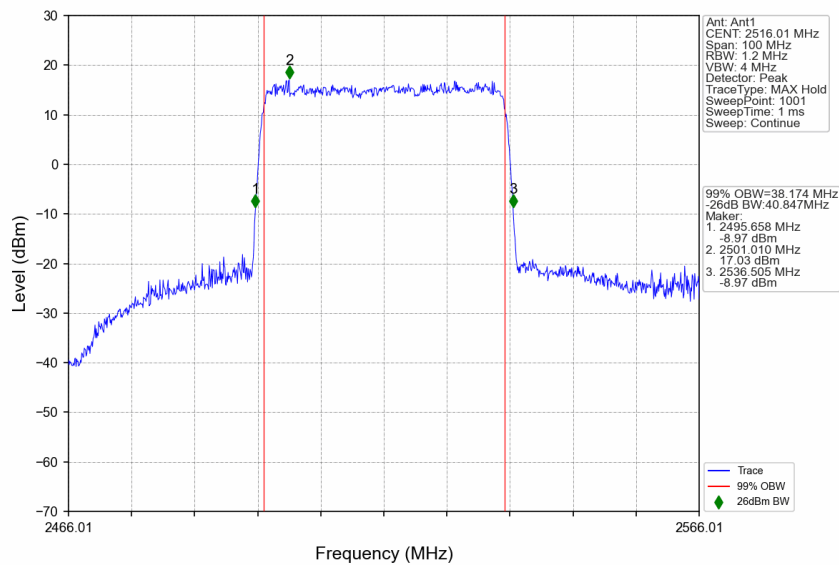
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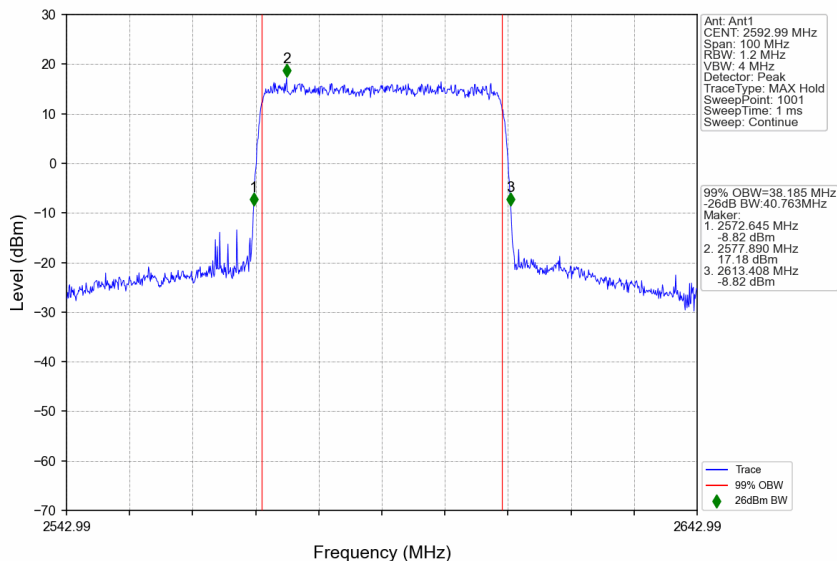
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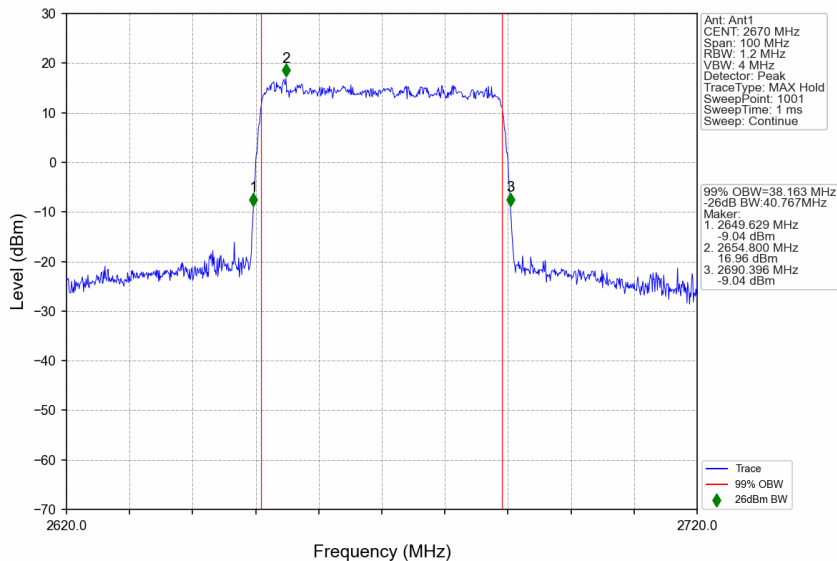
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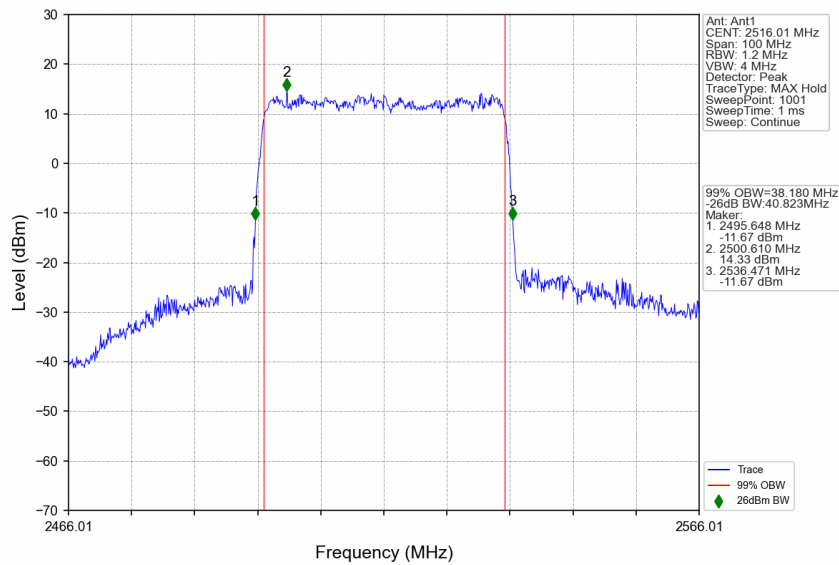


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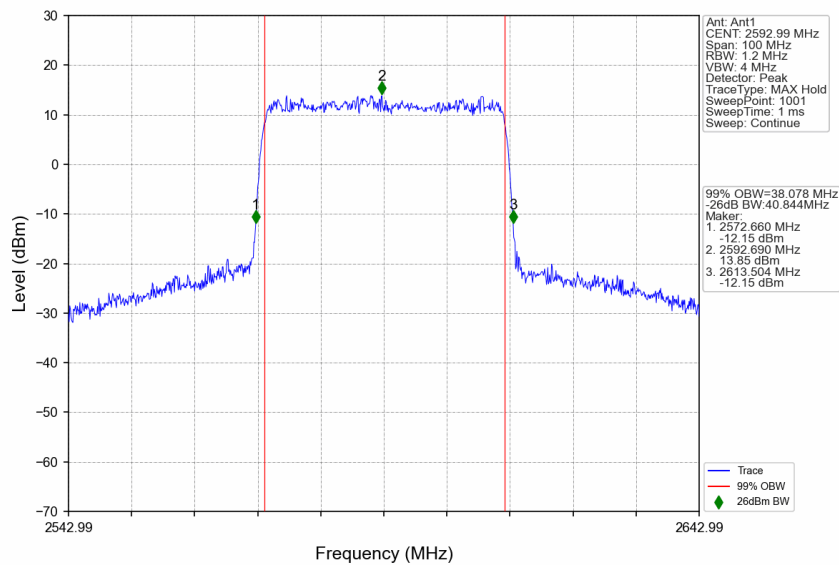
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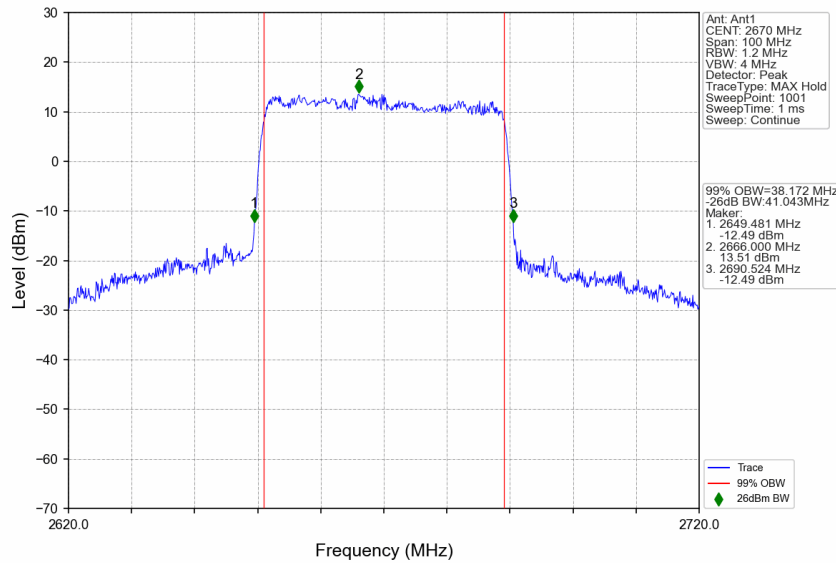


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4.14 30k_SISO_50MHz_NTNV

4.14.1 Test Result

5G NR n41 SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2521.02	Outer_Full	46.20	49.38	/	Pass
	2592.99	Outer_Full	46.17	49.33	/	Pass
	2664.99	Outer_Full	46.18	49.21	/	Pass
DFT-s-OFDM QPSK	2521.02	Outer_Full	46.30	49.38	/	Pass
	2592.99	Outer_Full	45.97	49.35	/	Pass
	2664.99	Outer_Full	46.20	49.51	/	Pass
DFT-s-OFDM 16 QAM	2521.02	Outer_Full	46.07	49.29	/	Pass
	2592.99	Outer_Full	46.03	49.35	/	Pass
	2664.99	Outer_Full	46.08	49.32	/	Pass
DFT-s-OFDM 64 QAM	2521.02	Outer_Full	46.08	49.42	/	Pass
	2592.99	Outer_Full	46.08	49.35	/	Pass
	2664.99	Outer_Full	46.16	49.48	/	Pass
DFT-s-OFDM 256 QAM	2521.02	Outer_Full	46.06	49.35	/	Pass
	2592.99	Outer_Full	46.02	49.28	/	Pass
	2664.99	Outer_Full	46.06	49.33	/	Pass
CP-OFDM QPSK	2521.02	Outer_Full	47.85	51.18	/	Pass
	2592.99	Outer_Full	47.90	51.20	/	Pass
	2664.99	Outer_Full	47.95	53.41	/	Pass
CP-OFDM 16 QAM	2521.02	Outer_Full	47.79	51.20	/	Pass
	2592.99	Outer_Full	47.82	51.19	/	Pass
	2664.99	Outer_Full	47.80	51.20	/	Pass
CP-OFDM 64 QAM	2521.02	Outer_Full	47.93	51.24	/	Pass
	2592.99	Outer_Full	47.95	51.19	/	Pass
	2664.99	Outer_Full	47.95	51.14	/	Pass
CP-OFDM 256 QAM	2521.02	Outer_Full	47.80	51.19	/	Pass
	2592.99	Outer_Full	47.88	51.14	/	Pass
	2664.99	Outer_Full	47.78	51.08	/	Pass

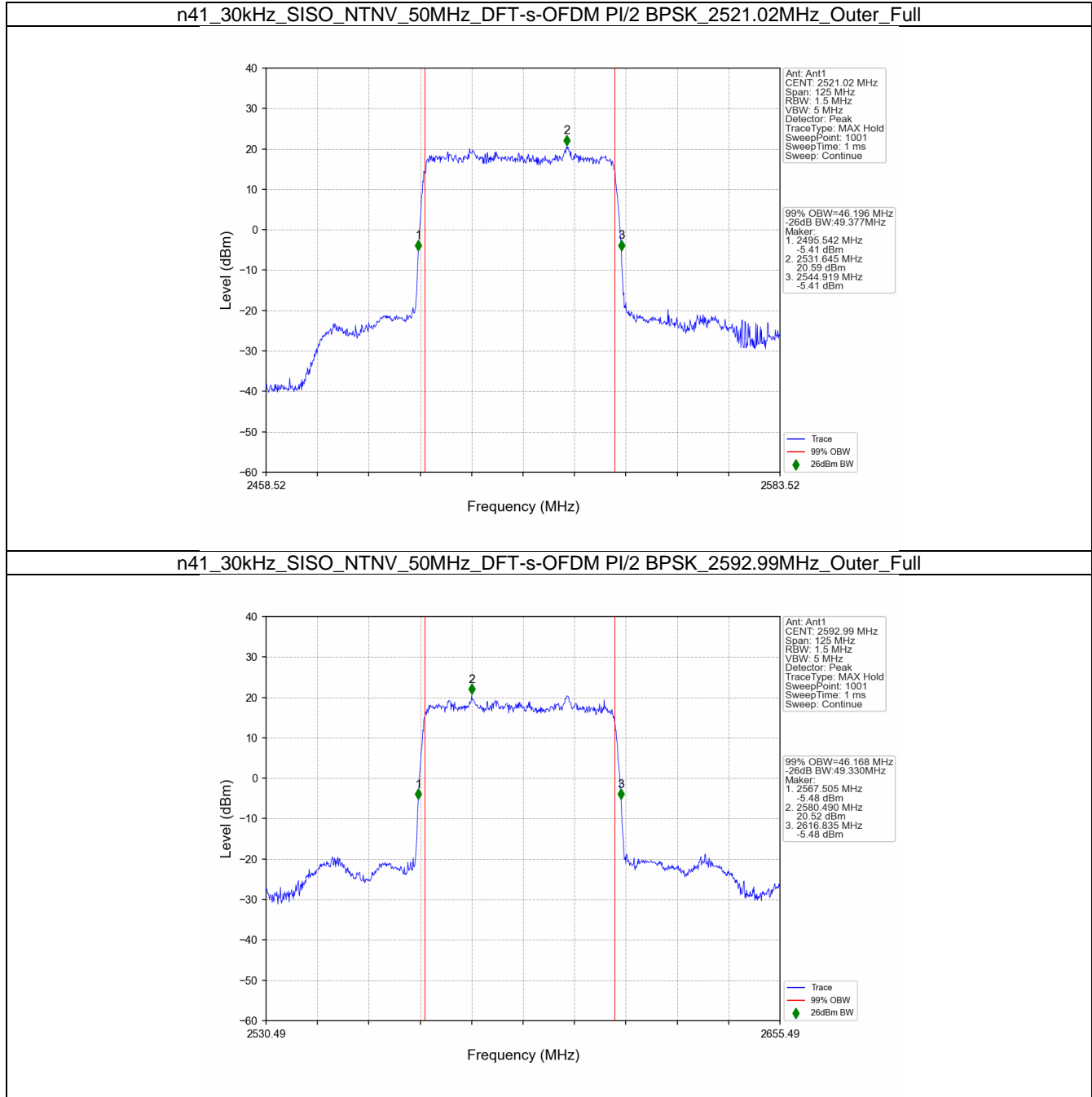


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4.14.2 Test Graph

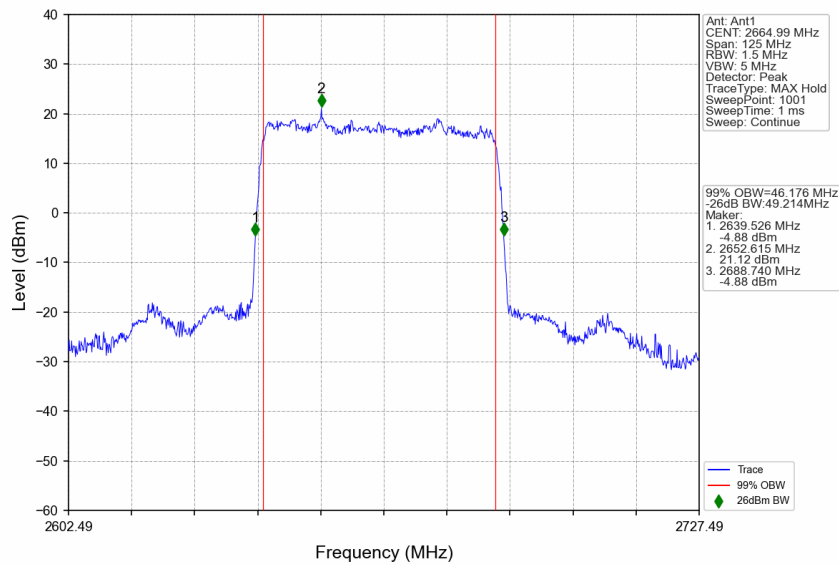


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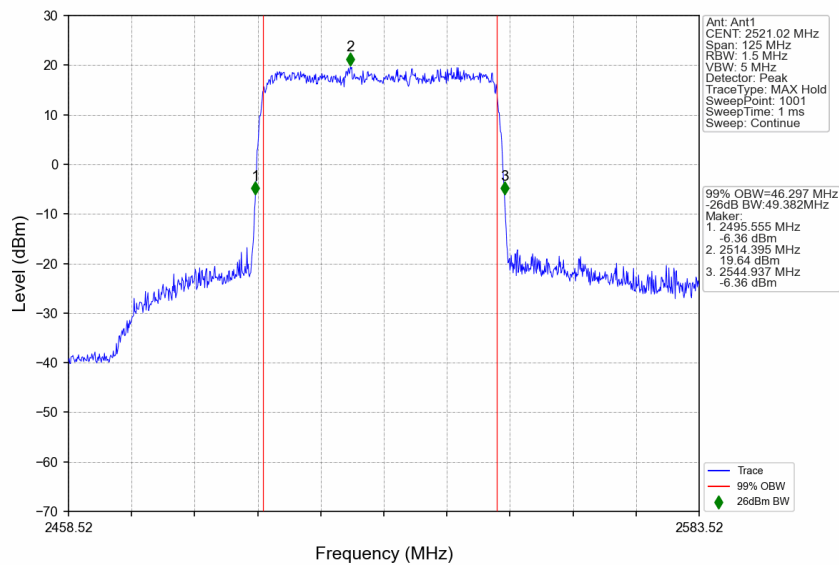
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2521.02MHz_Outer_Full

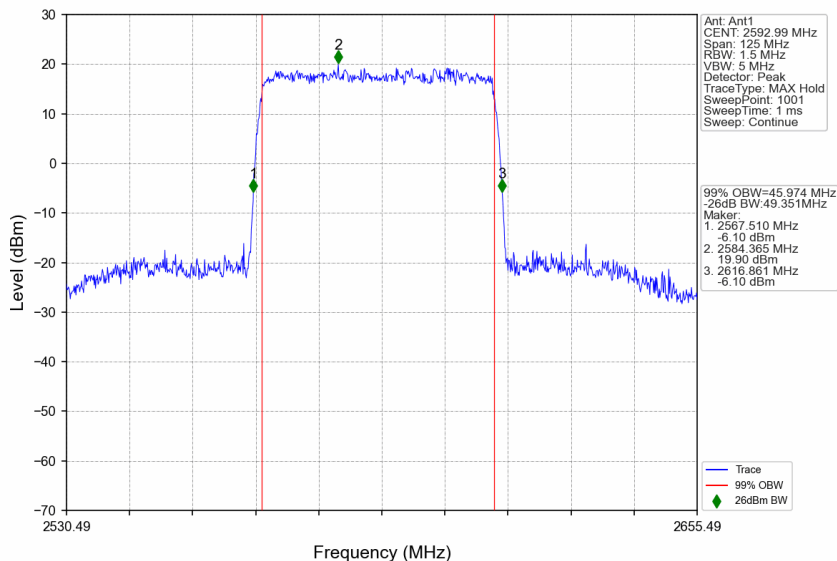


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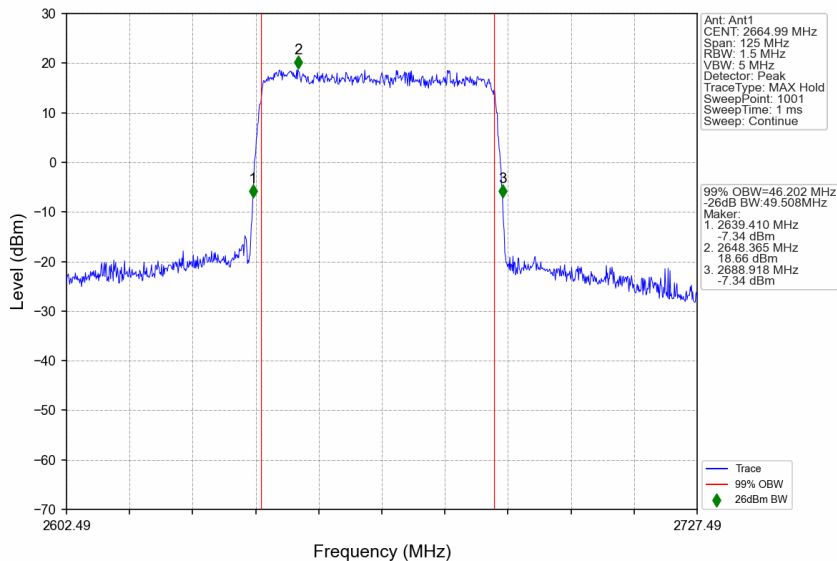
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2664.99MHz_Outer_Full

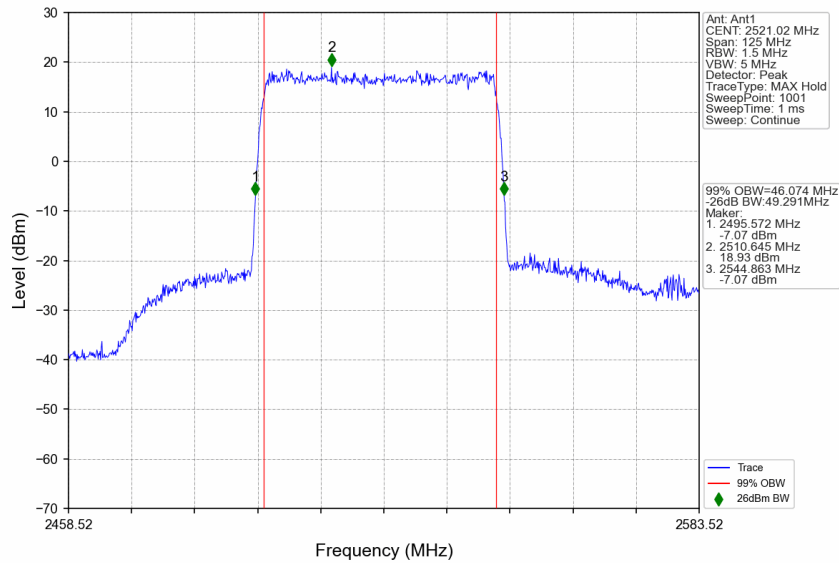


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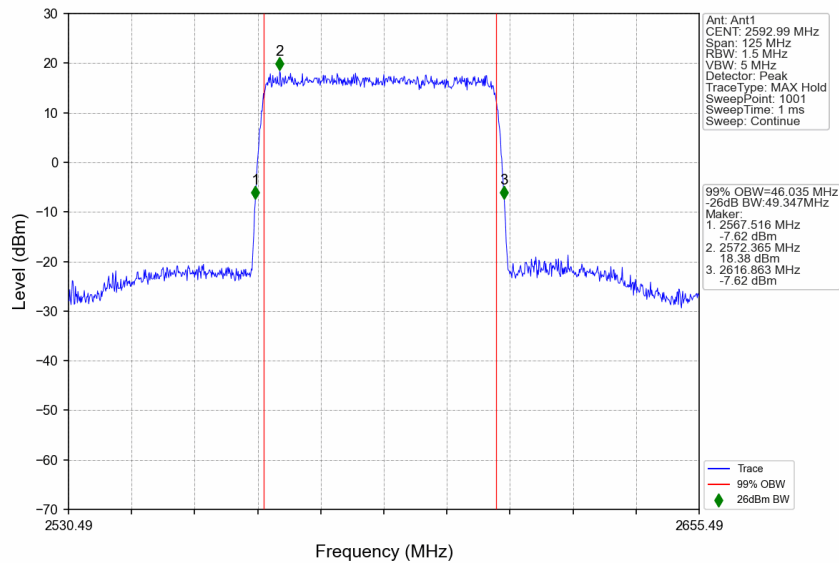
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2521.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full

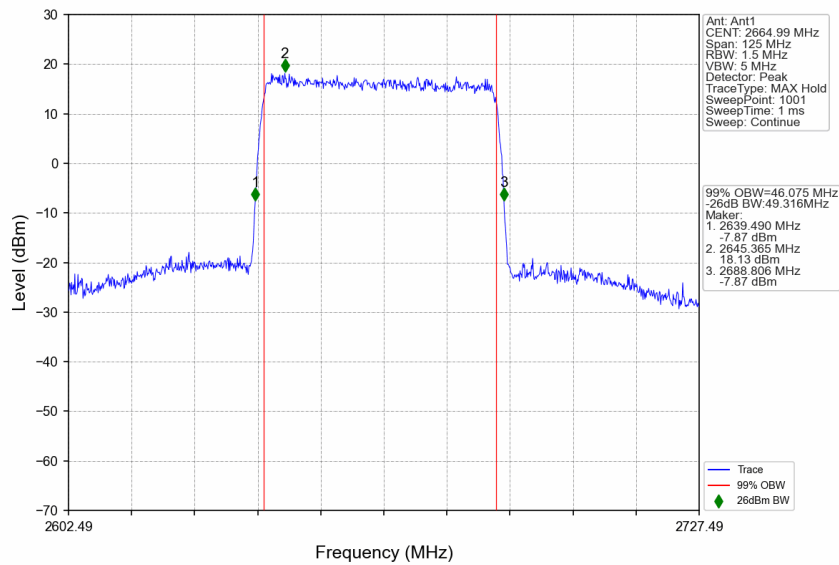


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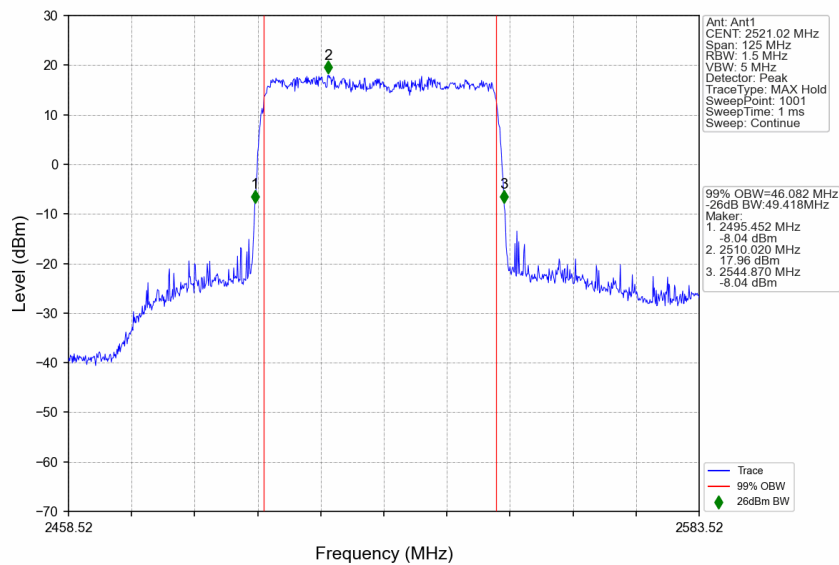
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2521.02MHz_Outer_Full



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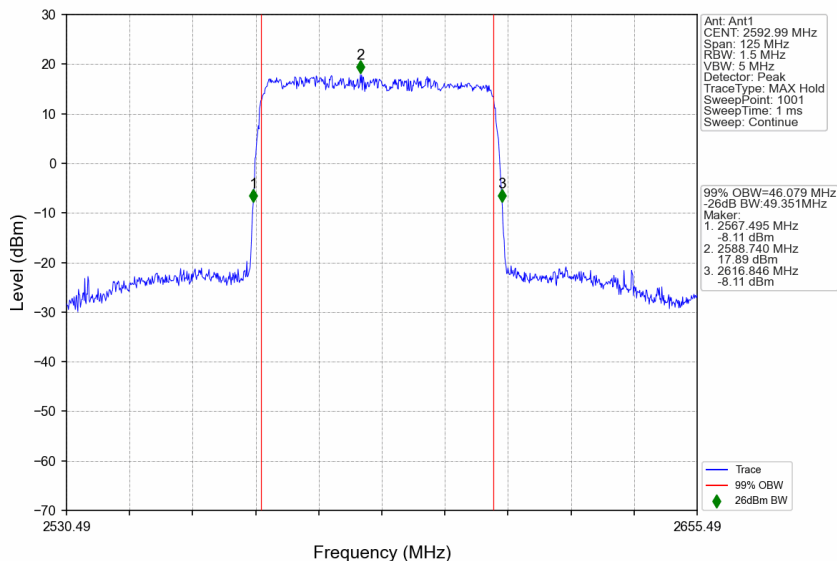
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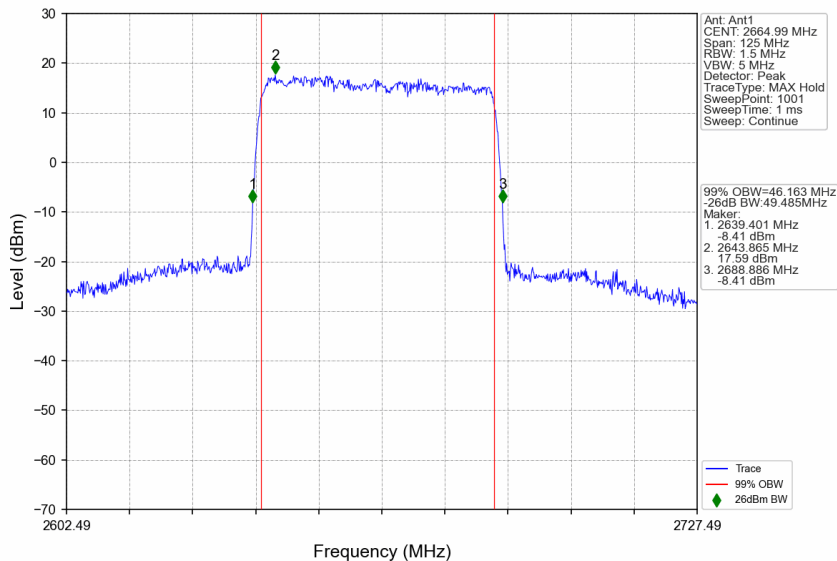
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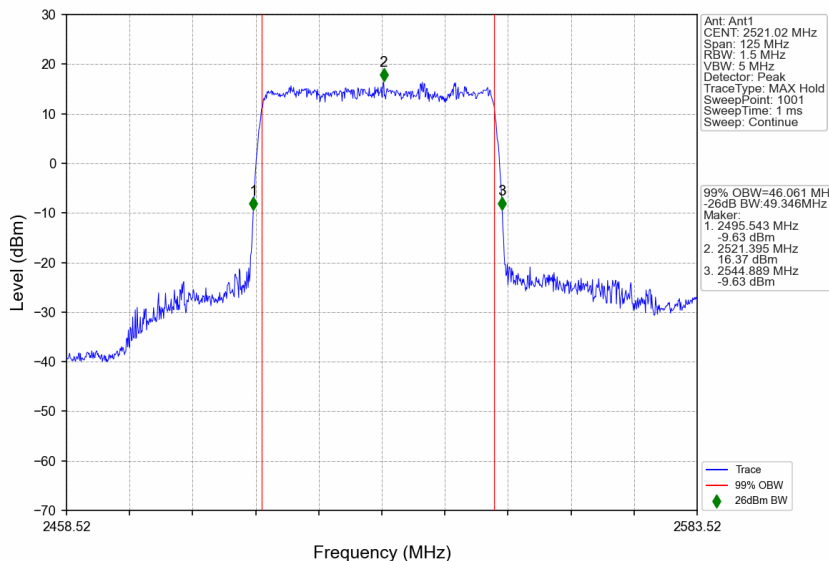


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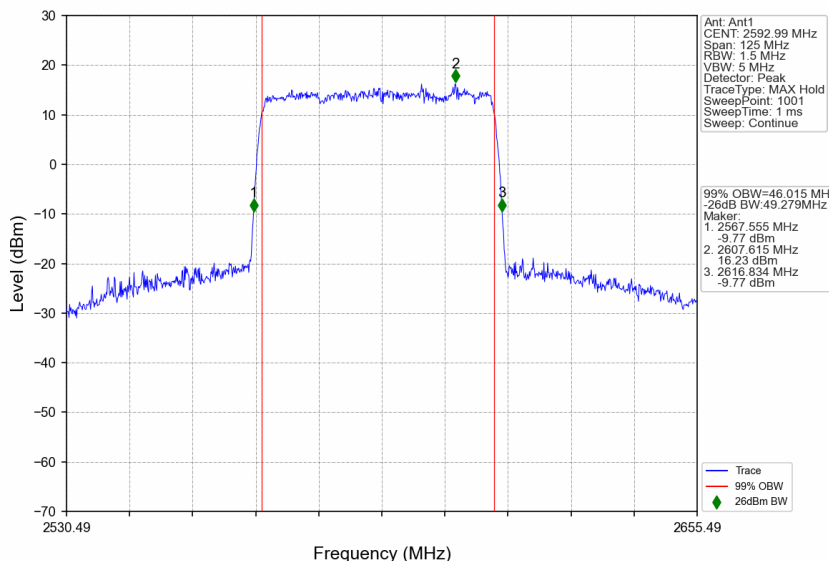
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2521.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full

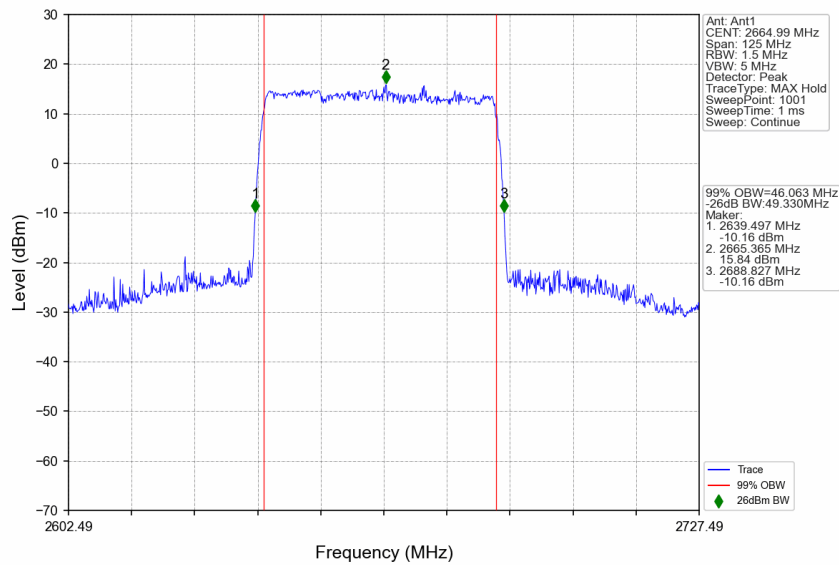


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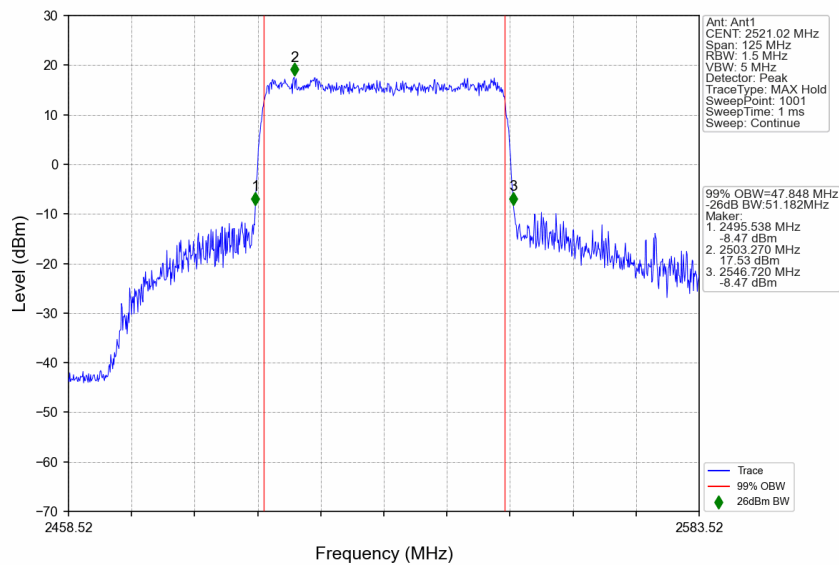
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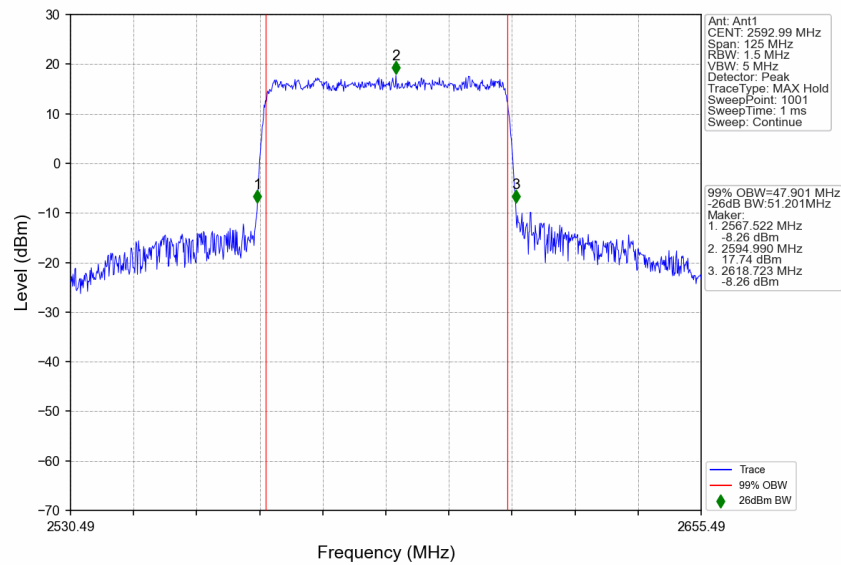


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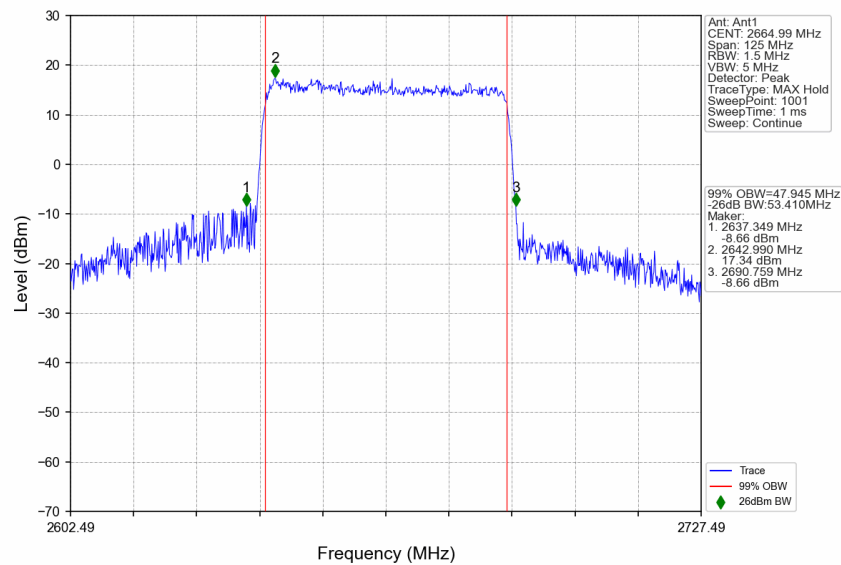
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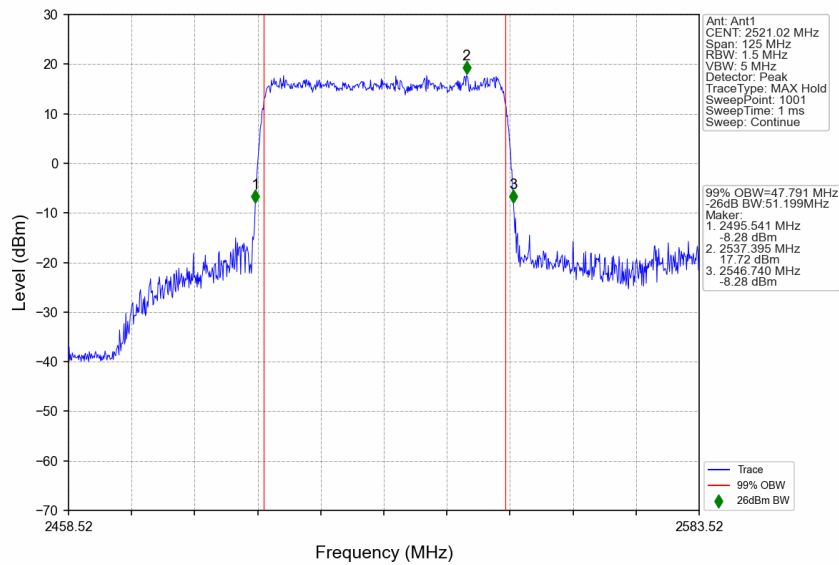


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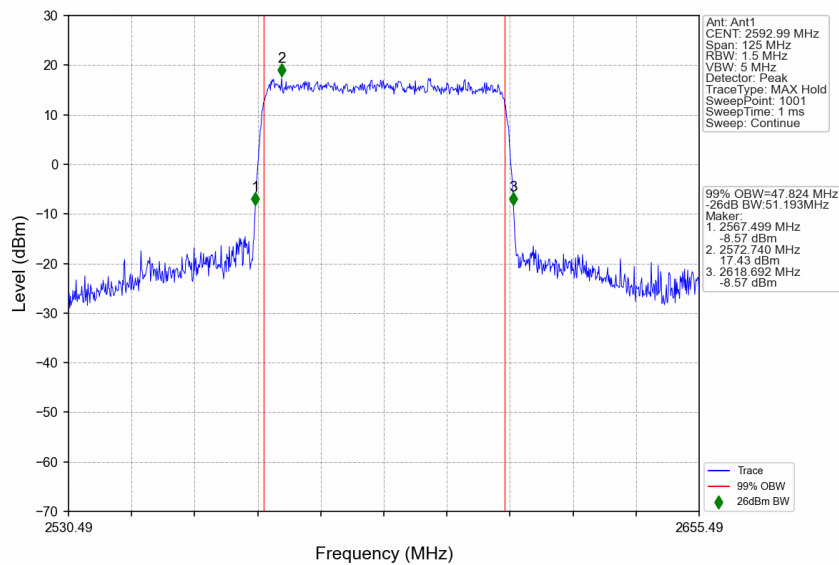
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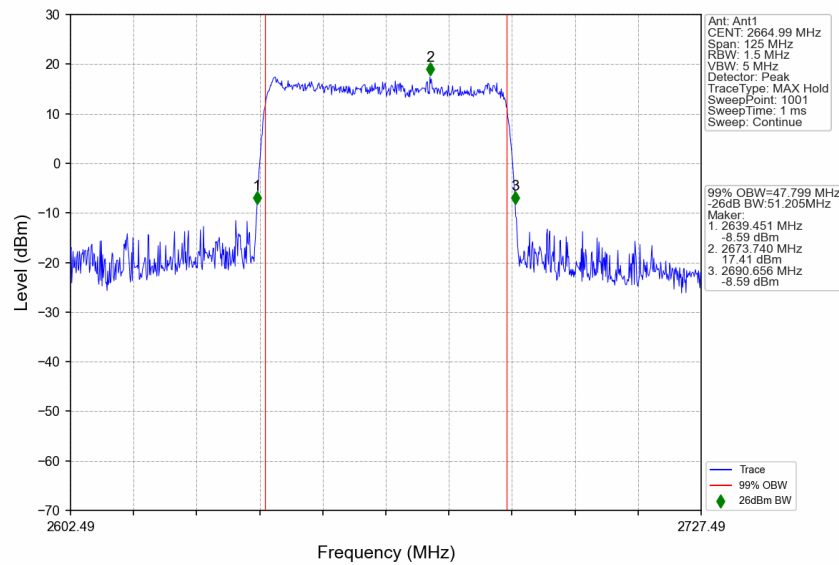


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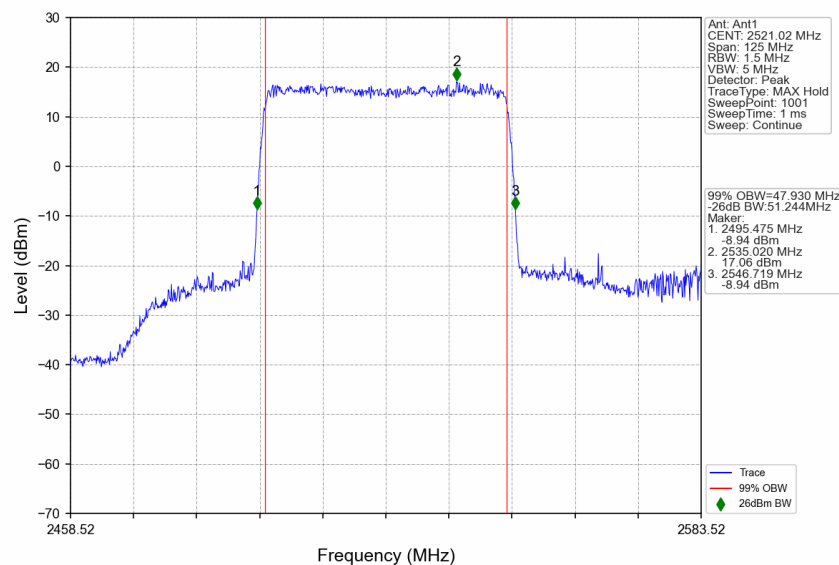
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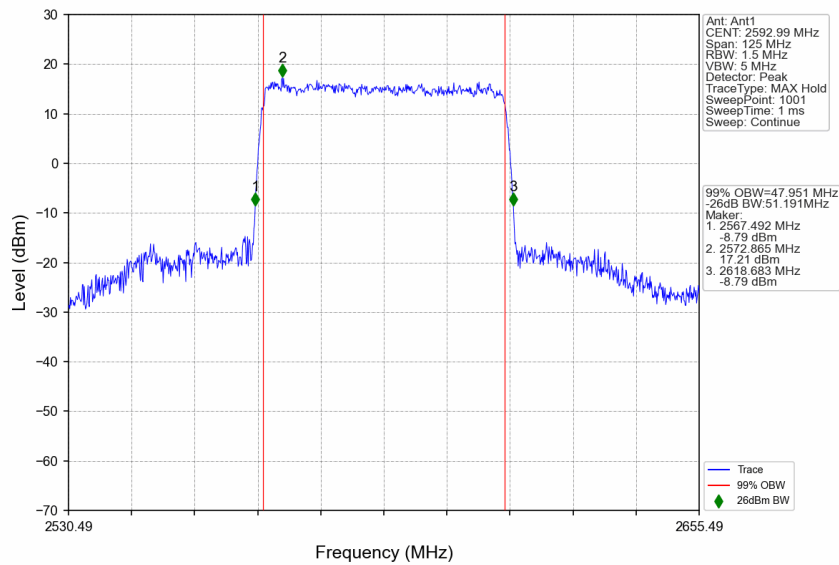


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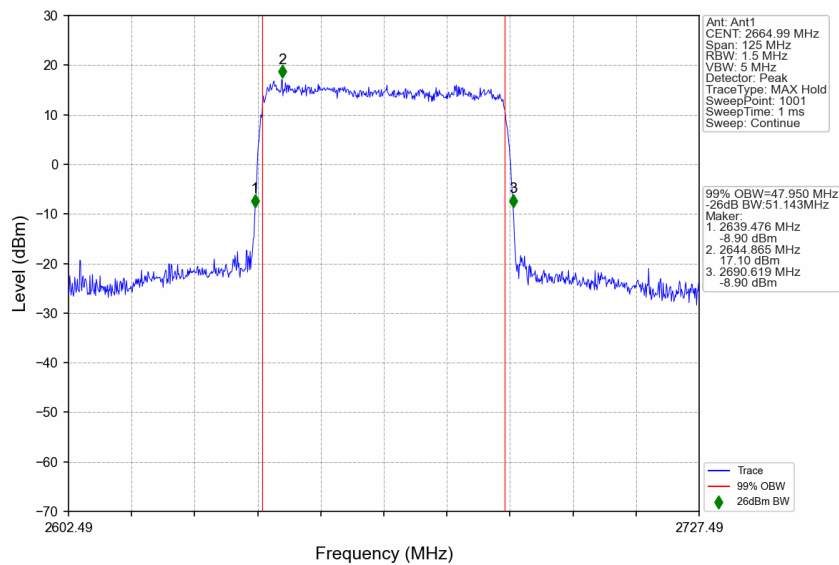
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2664.99MHz_Outer_Full

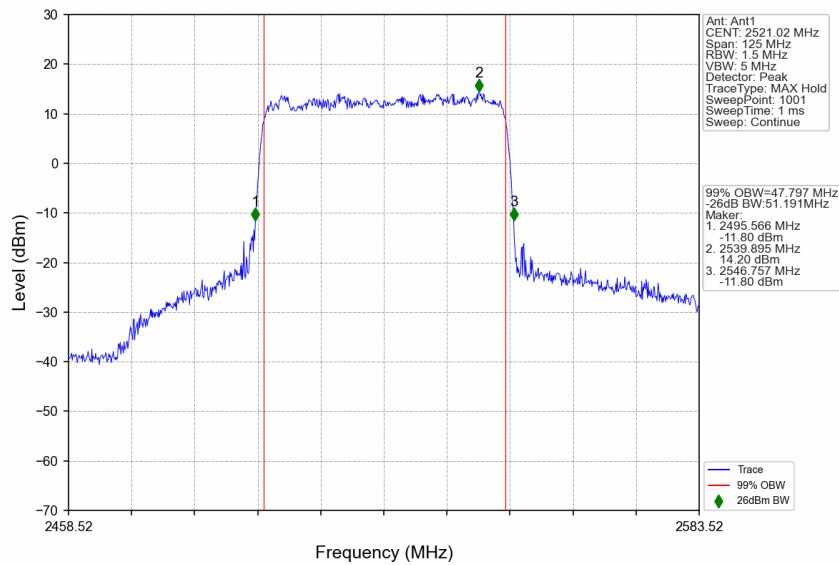


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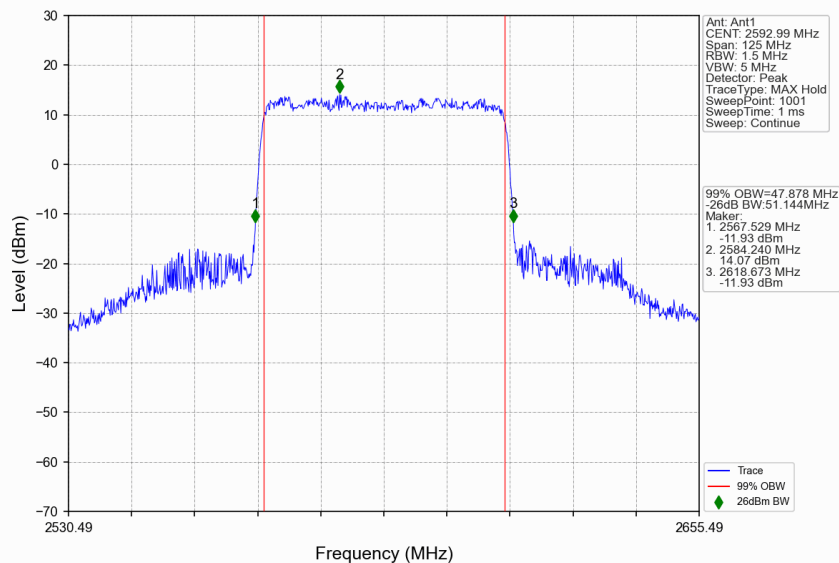
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2521.02MHz_Outer_Full



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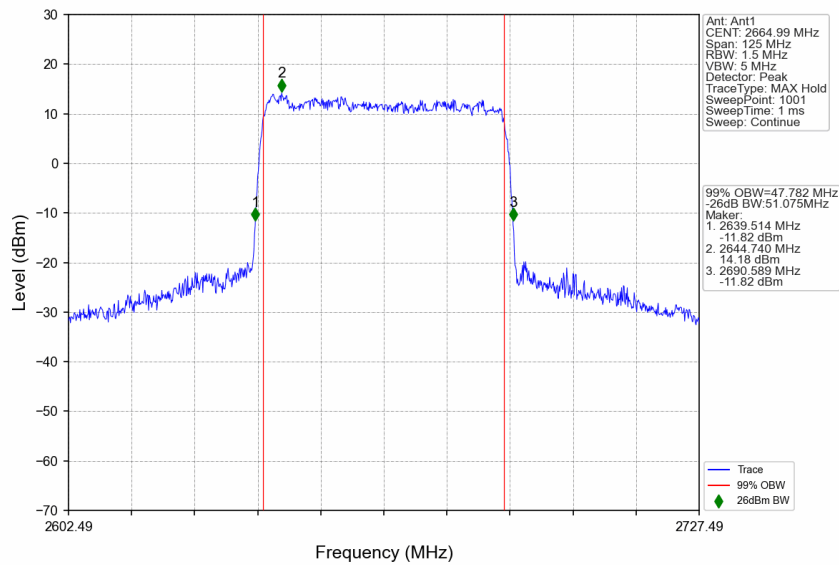


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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2664.99MHz_Outer_Full



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 Wireless Laboratory

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4.15 30k_SISO_60MHz_NTNV

4.15.1 Test Result

5G NR n41 SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2526	Outer_Full	58.42	62.42	/	Pass
	2592.99	Outer_Full	58.34	62.11	/	Pass
	2659.98	Outer_Full	58.31	62.18	/	Pass
DFT-s-OFDM QPSK	2526	Outer_Full	58.31	62.36	/	Pass
	2592.99	Outer_Full	58.11	62.27	/	Pass
	2659.98	Outer_Full	58.28	62.35	/	Pass
DFT-s-OFDM 16 QAM	2526	Outer_Full	58.16	62.19	/	Pass
	2592.99	Outer_Full	58.11	62.19	/	Pass
	2659.98	Outer_Full	58.21	62.30	/	Pass
DFT-s-OFDM 64 QAM	2526	Outer_Full	58.33	62.40	/	Pass
	2592.99	Outer_Full	58.15	62.30	/	Pass
	2659.98	Outer_Full	58.16	62.34	/	Pass
DFT-s-OFDM 256 QAM	2526	Outer_Full	58.22	62.20	/	Pass
	2592.99	Outer_Full	58.22	62.27	/	Pass
	2659.98	Outer_Full	58.38	62.32	/	Pass
CP-OFDM QPSK	2526	Outer_Full	58.13	62.36	/	Pass
	2592.99	Outer_Full	57.81	62.18	/	Pass
	2659.98	Outer_Full	57.95	64.92	/	Pass
CP-OFDM 16 QAM	2526	Outer_Full	58.24	62.11	/	Pass
	2592.99	Outer_Full	58.02	64.83	/	Pass
	2659.98	Outer_Full	58.12	64.20	/	Pass
CP-OFDM 64 QAM	2526	Outer_Full	58.39	62.29	/	Pass
	2592.99	Outer_Full	57.99	63.42	/	Pass
	2659.98	Outer_Full	58.28	62.31	/	Pass
CP-OFDM 256 QAM	2526	Outer_Full	58.23	62.24	/	Pass
	2592.99	Outer_Full	58.24	62.32	/	Pass
	2659.98	Outer_Full	58.20	62.23	/	Pass

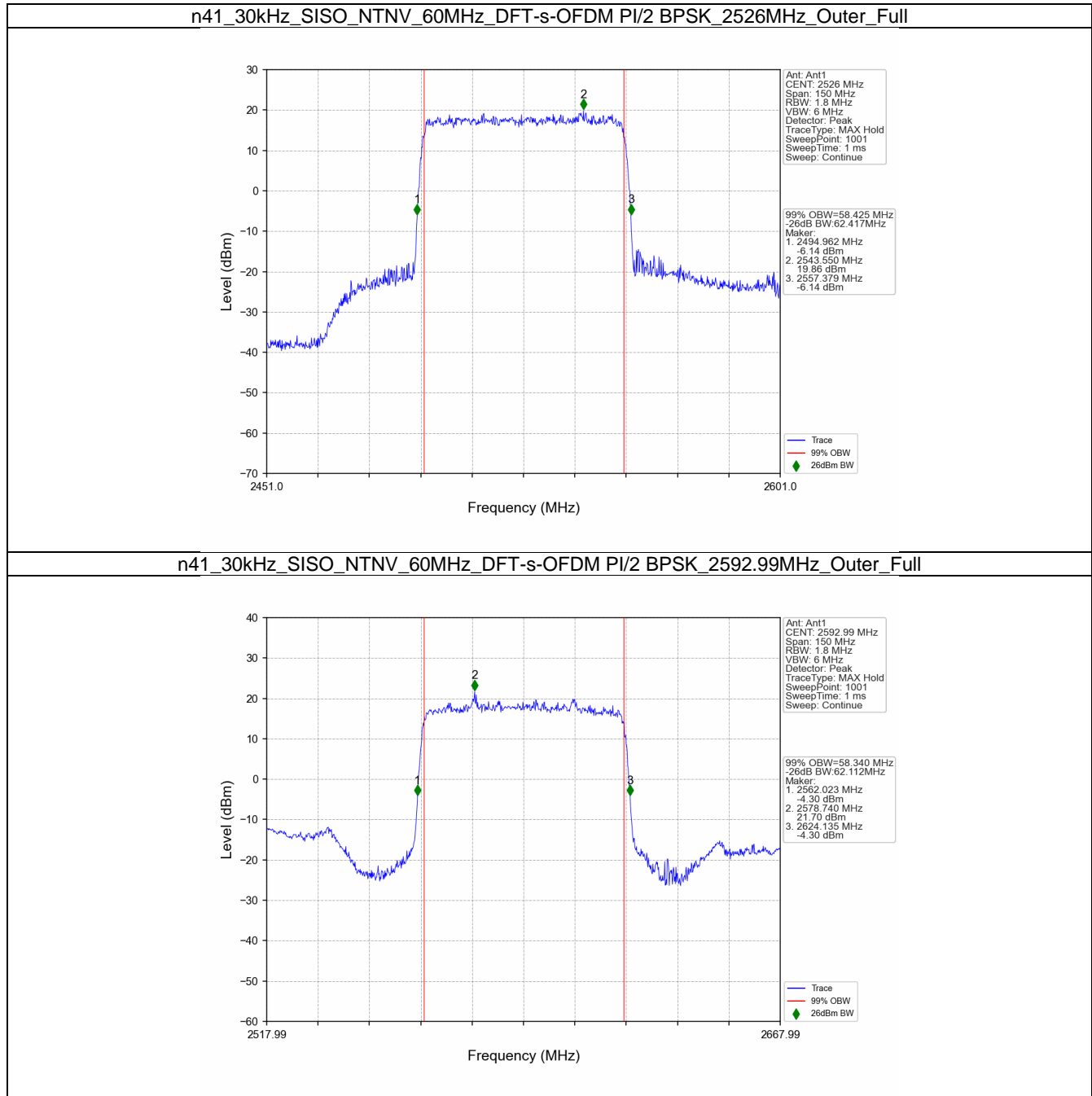


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4.15.2 Test Graph

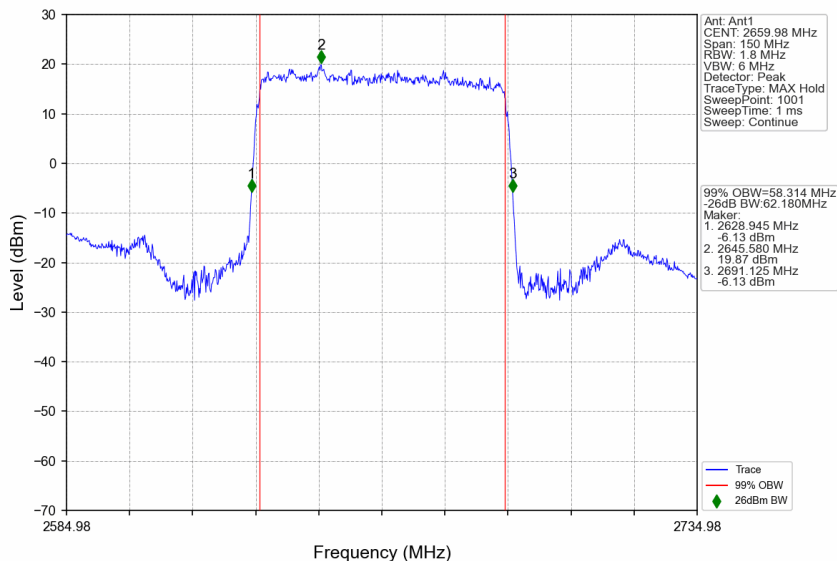


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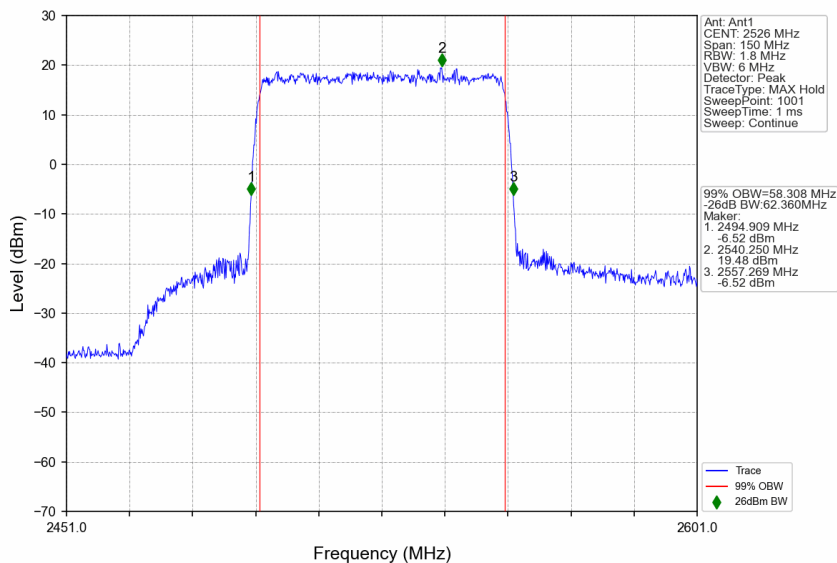
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_2526MHz_Outer_Full

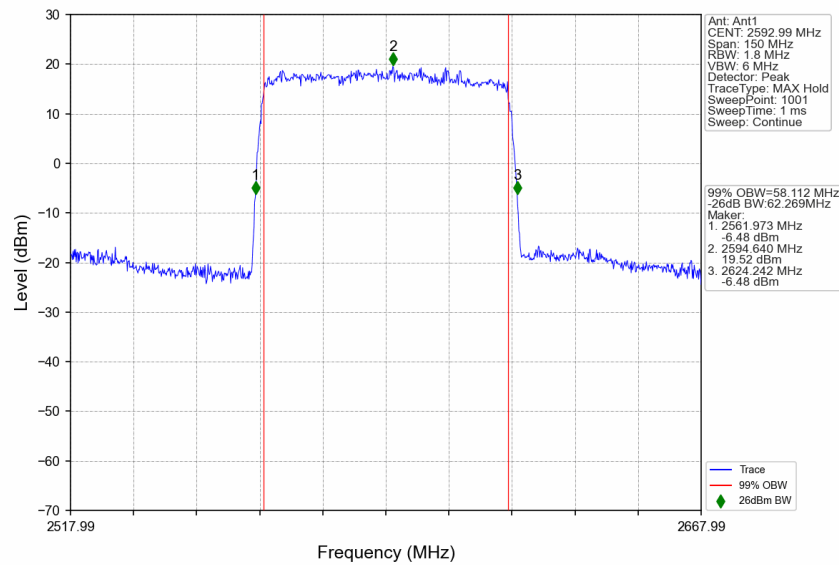


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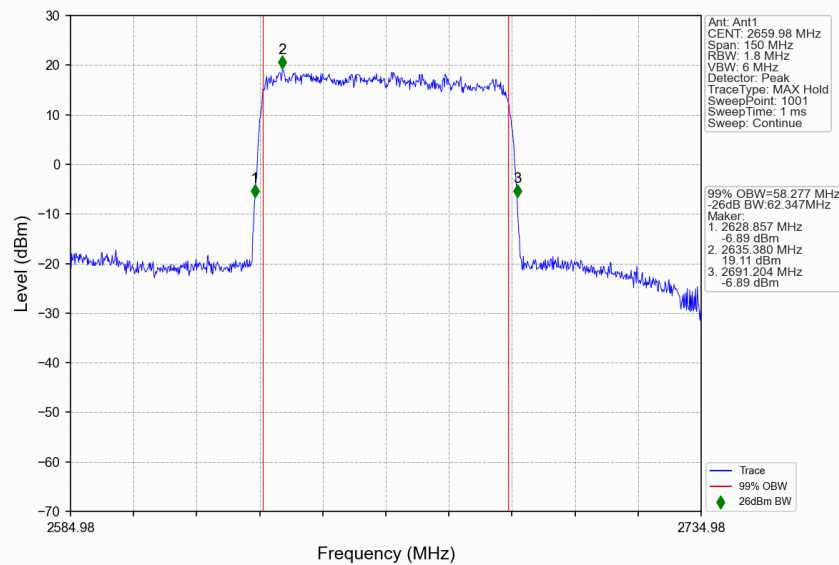
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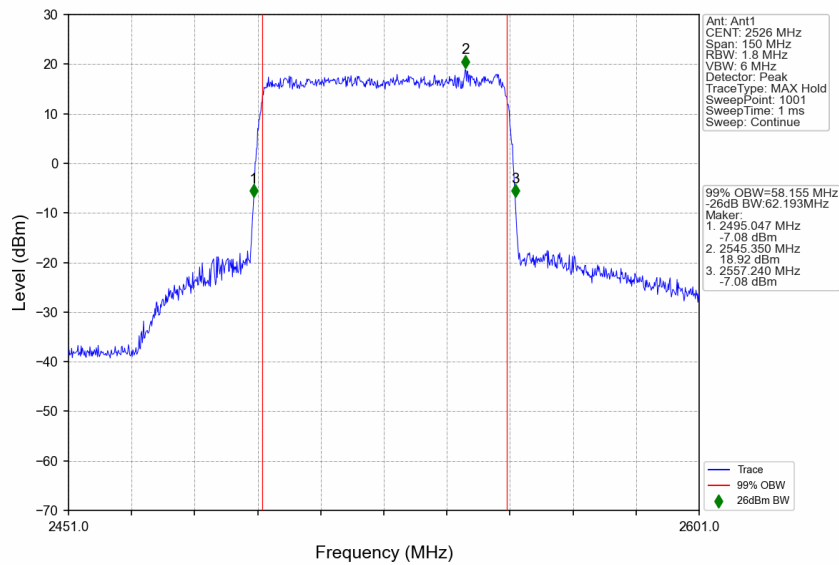


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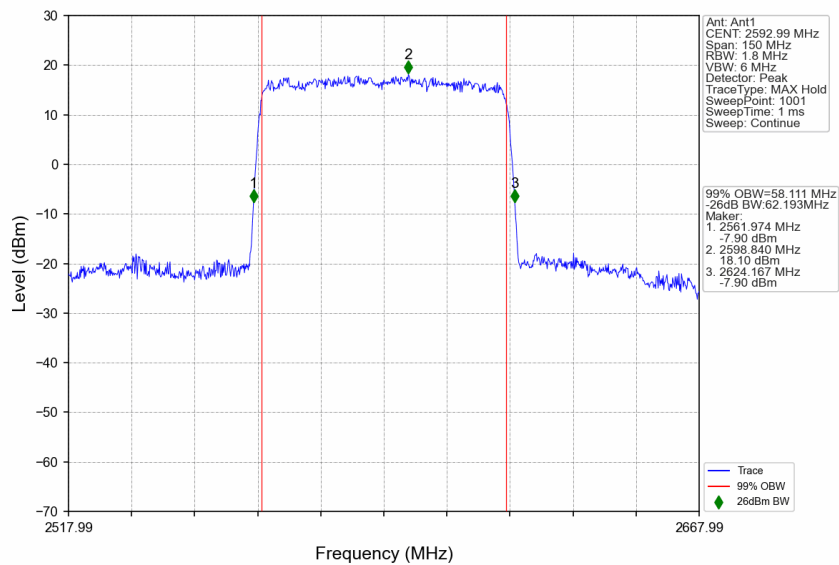
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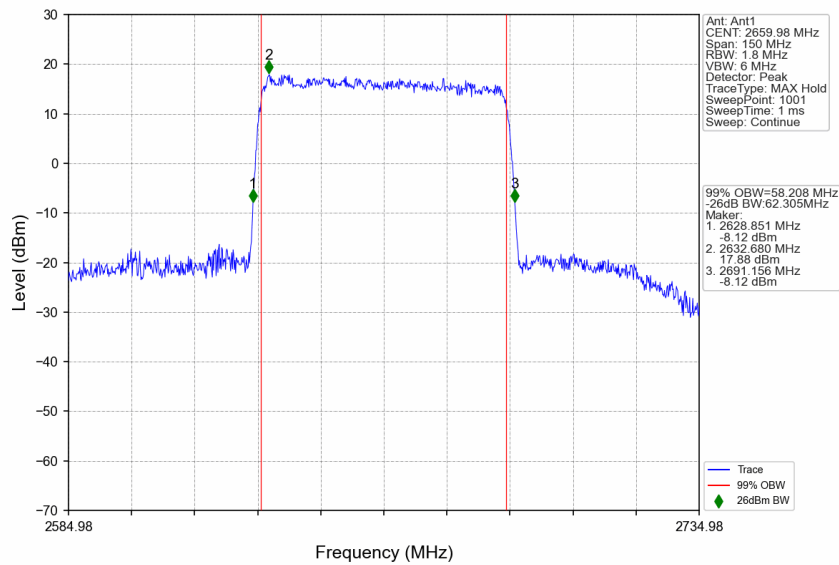


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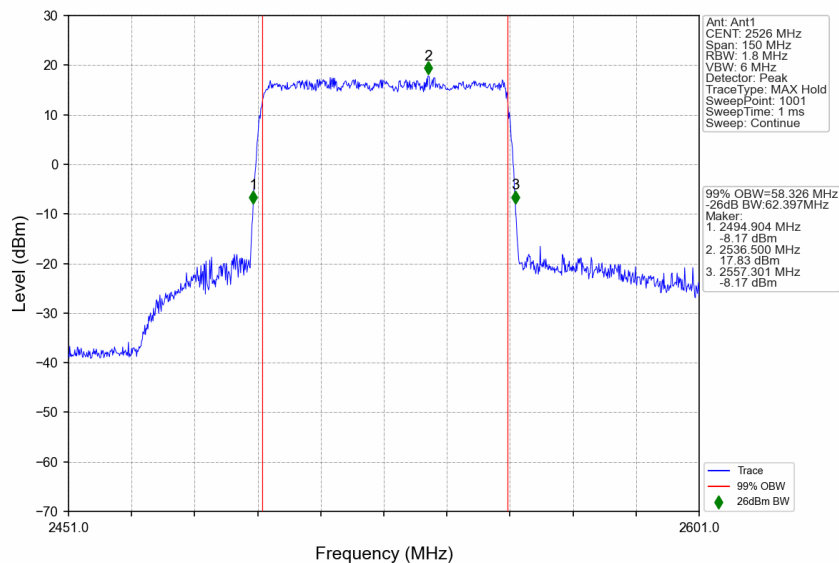
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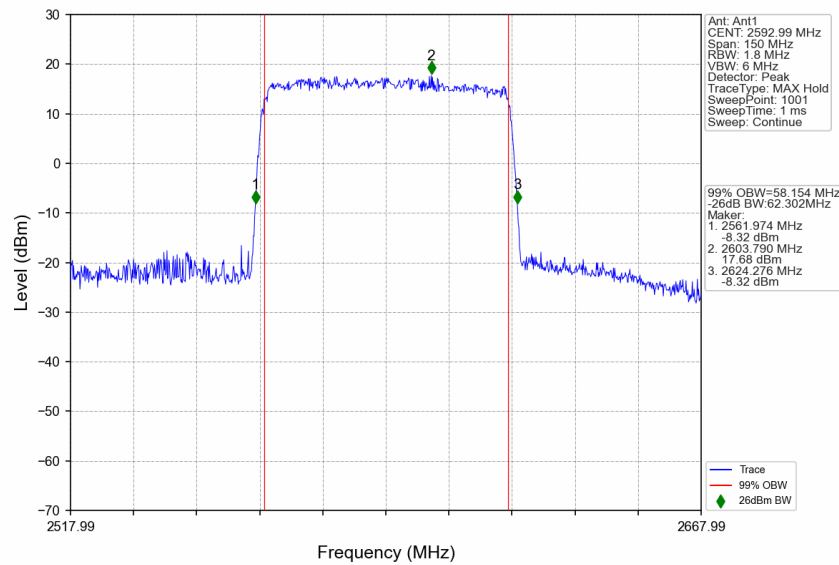


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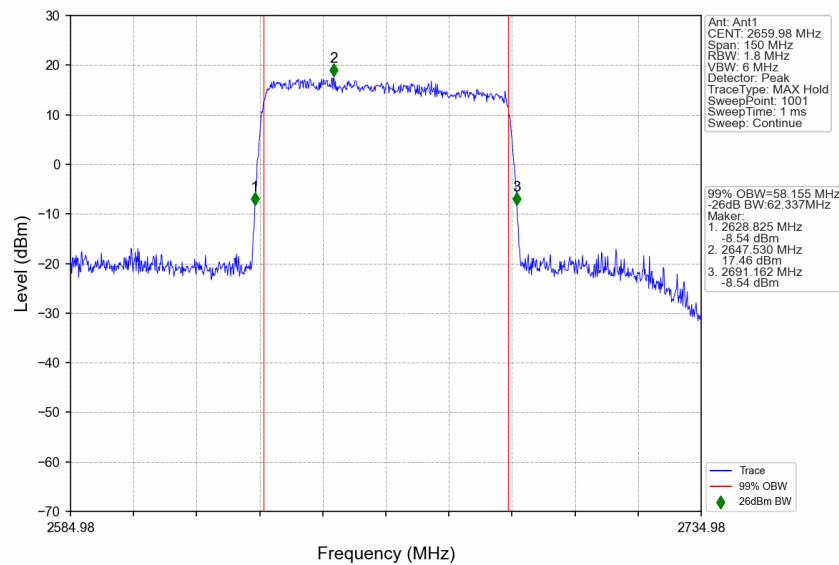
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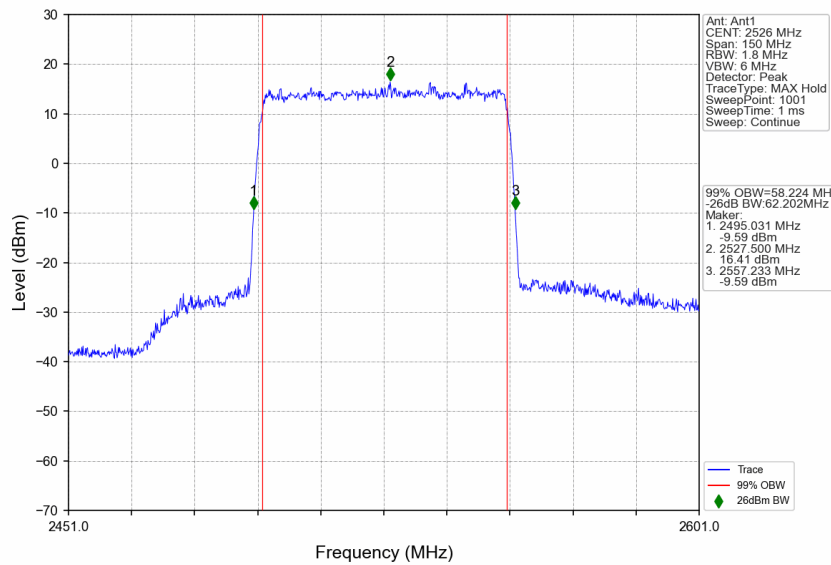


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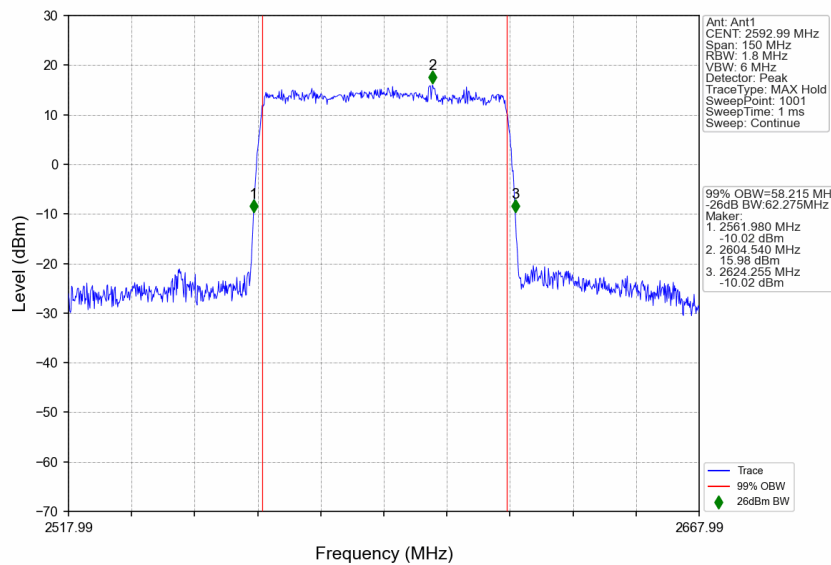
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_2526MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full

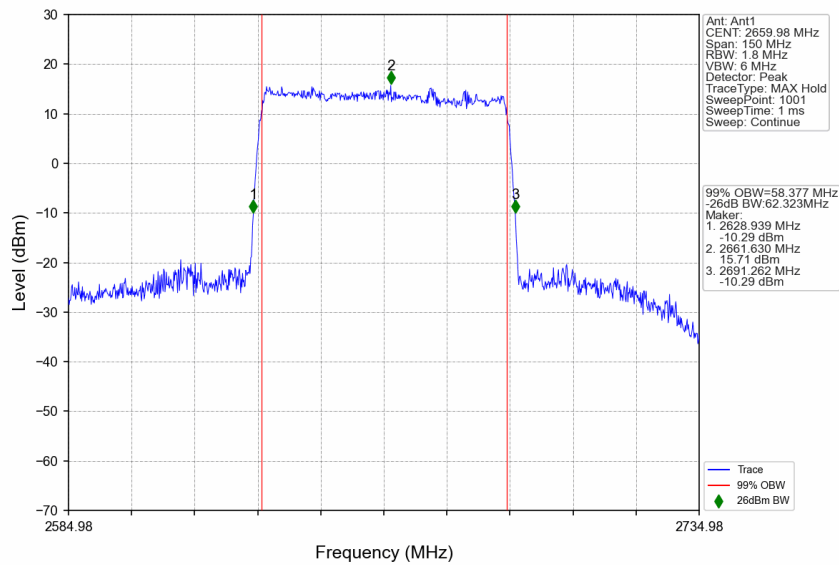


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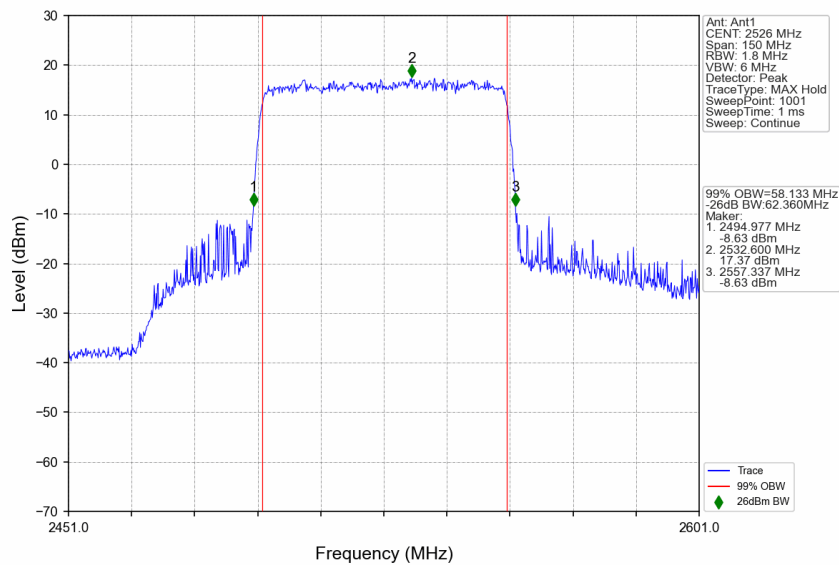
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_2659.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_2526MHz_Outer_Full



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