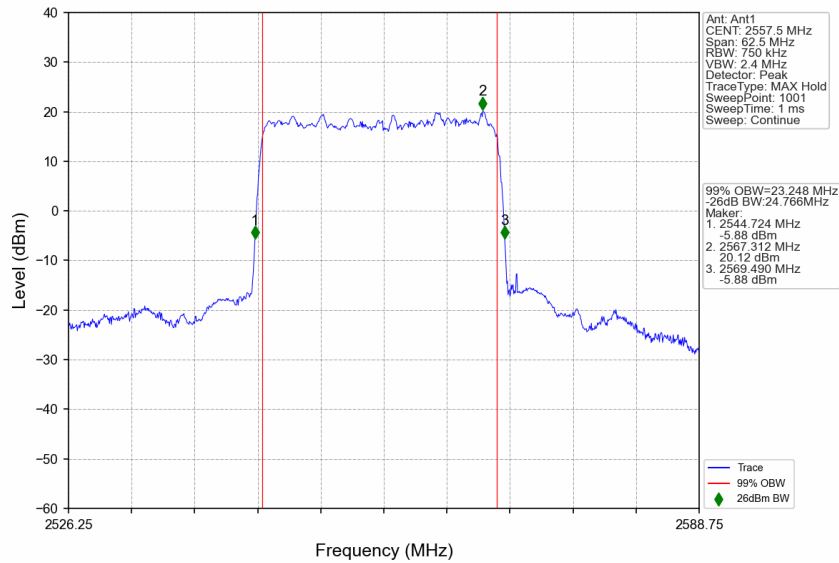
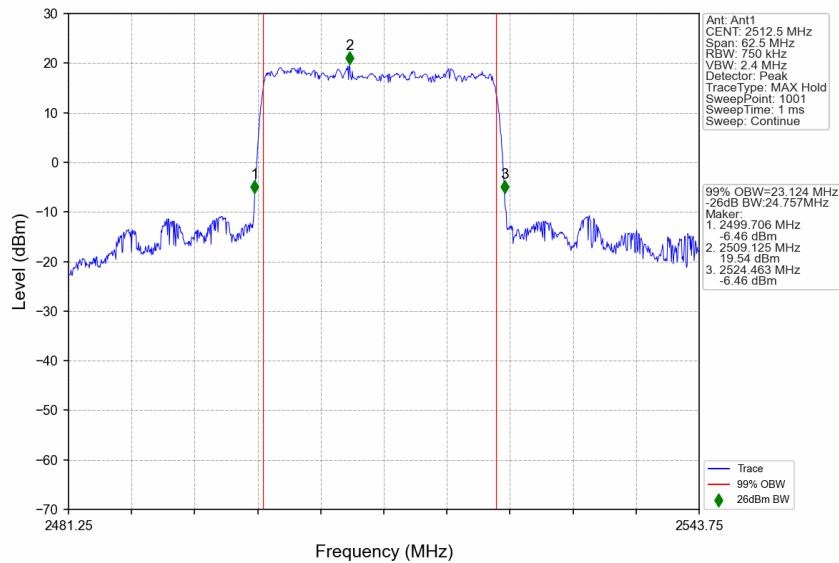


n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2512.5MHz_Outer_Full

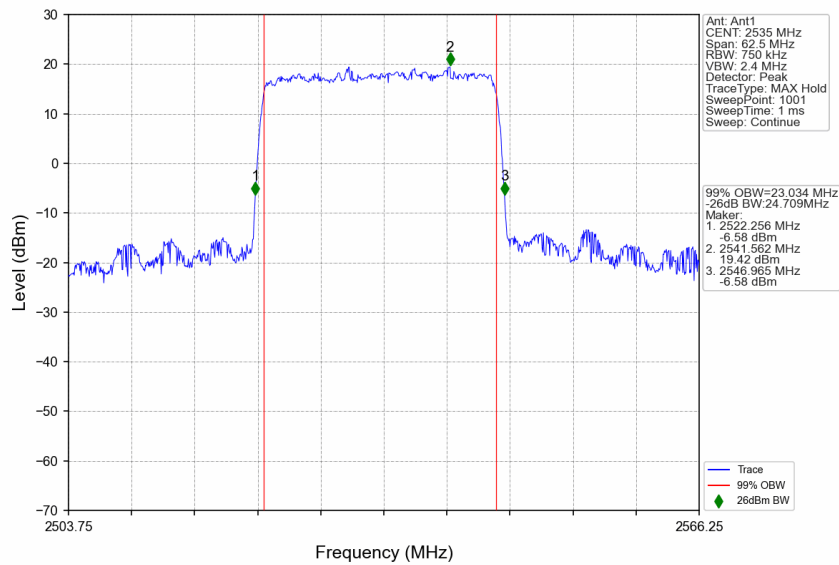


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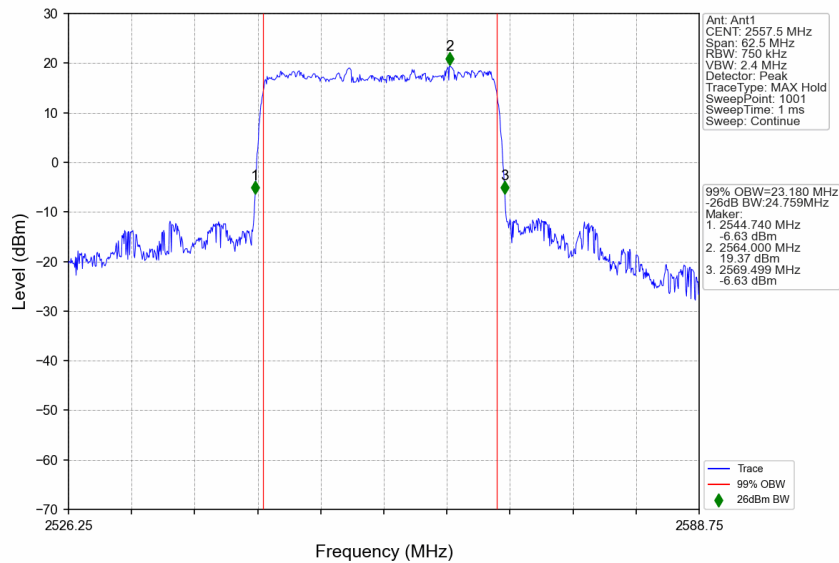
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2557.5MHz_Outer_Full

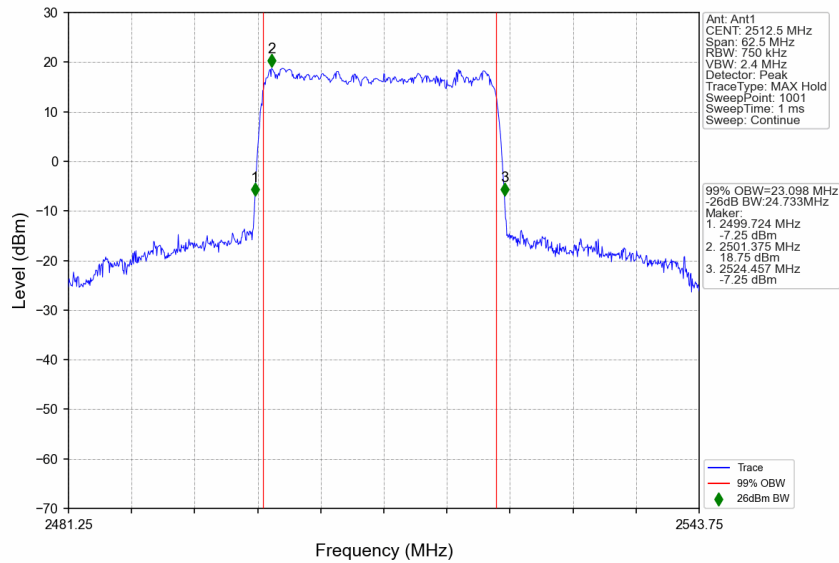


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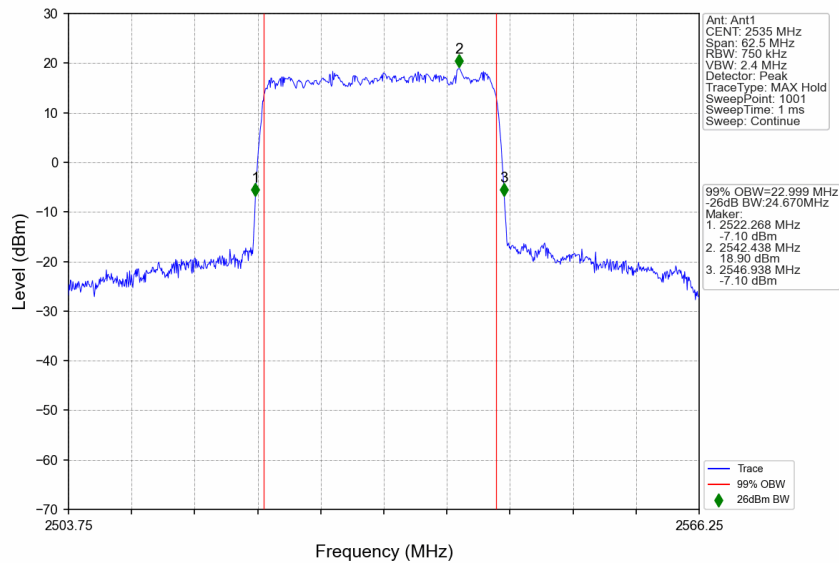
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full

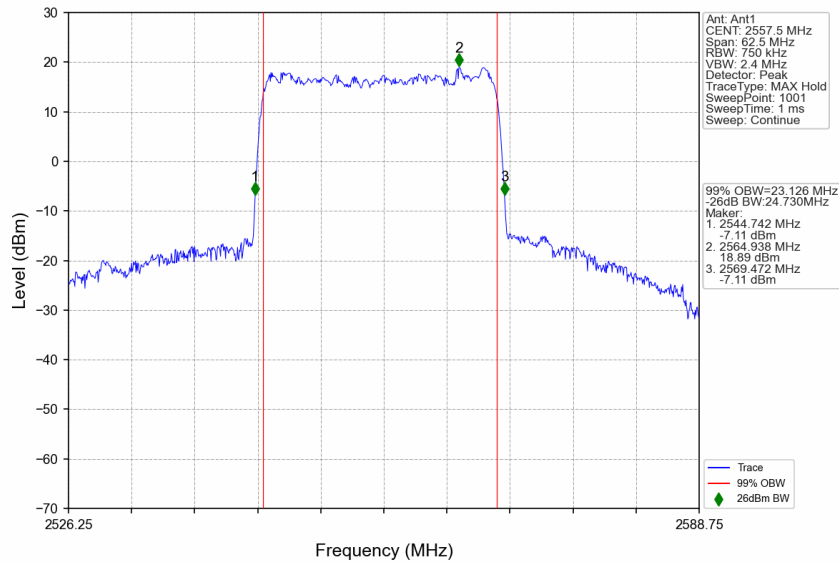


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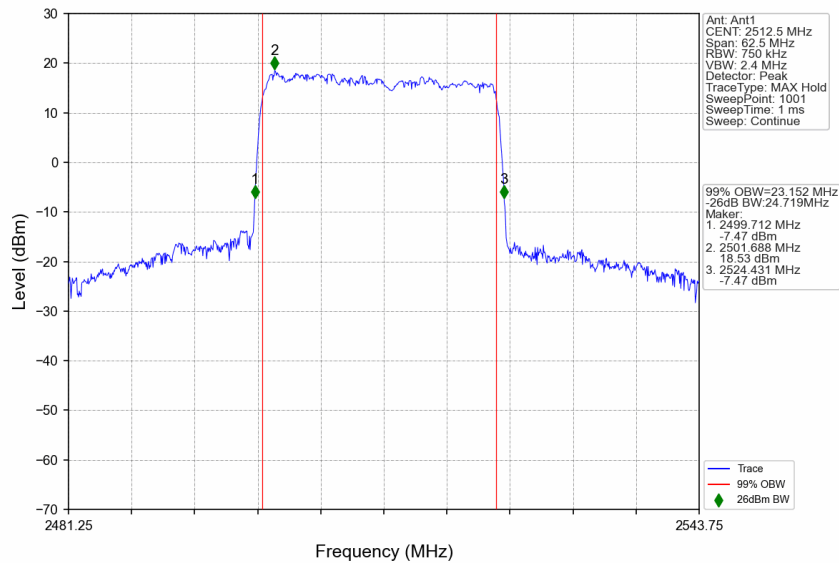
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2512.5MHz_Outer_Full

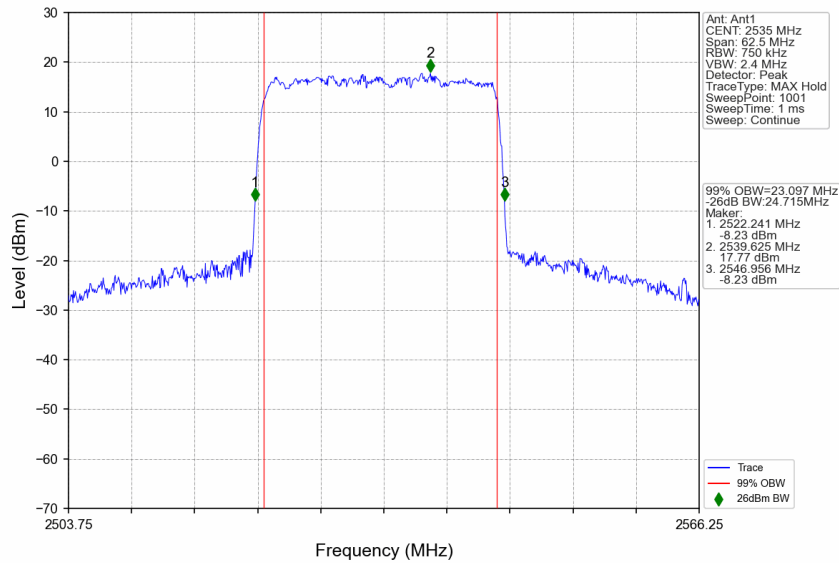


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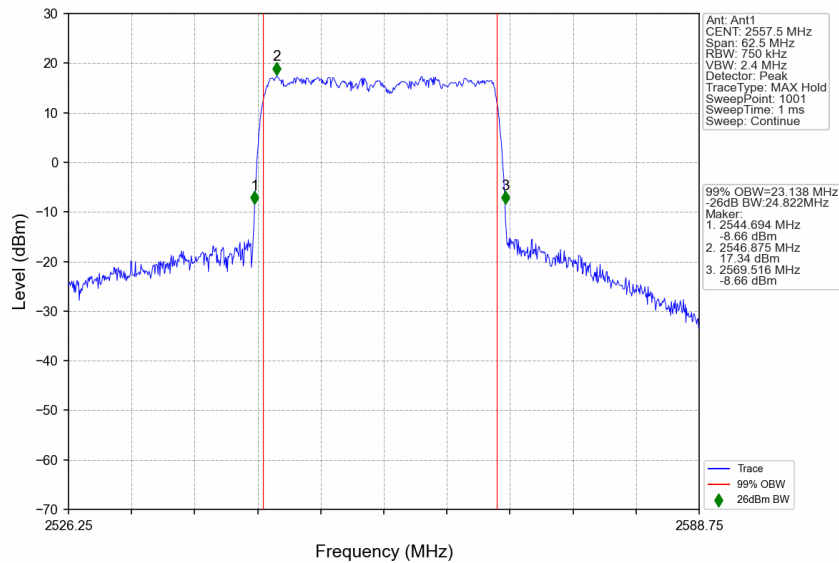
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2557.5MHz_Outer_Full

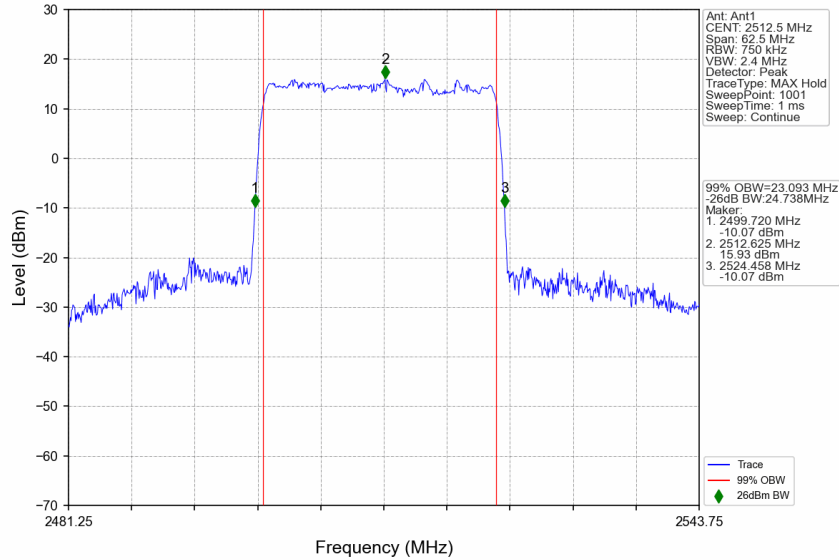


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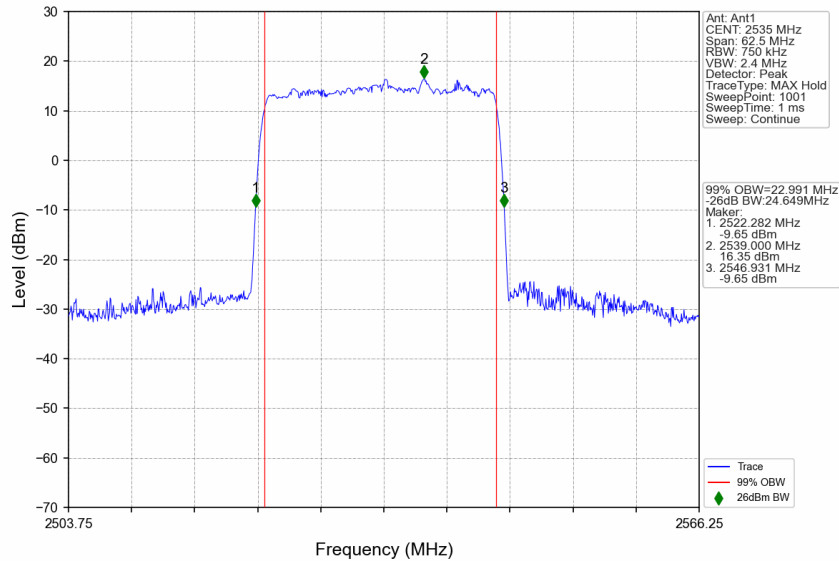
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

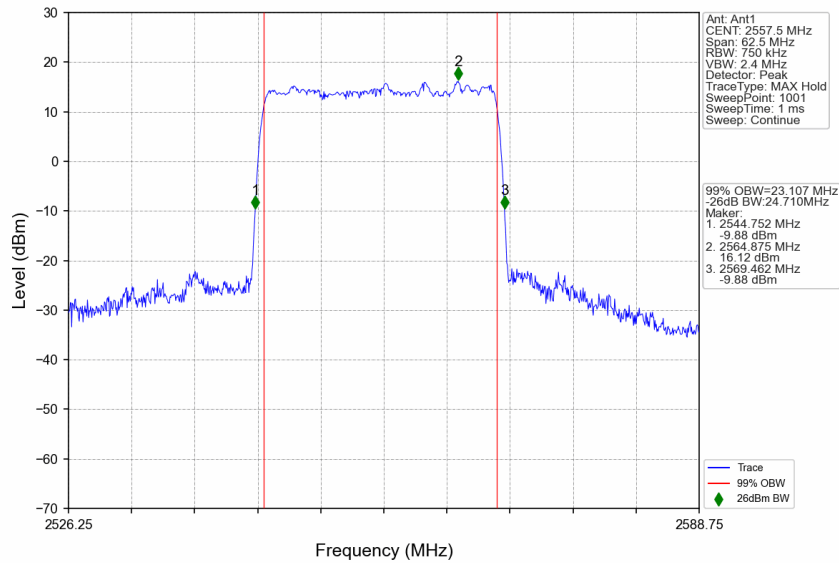


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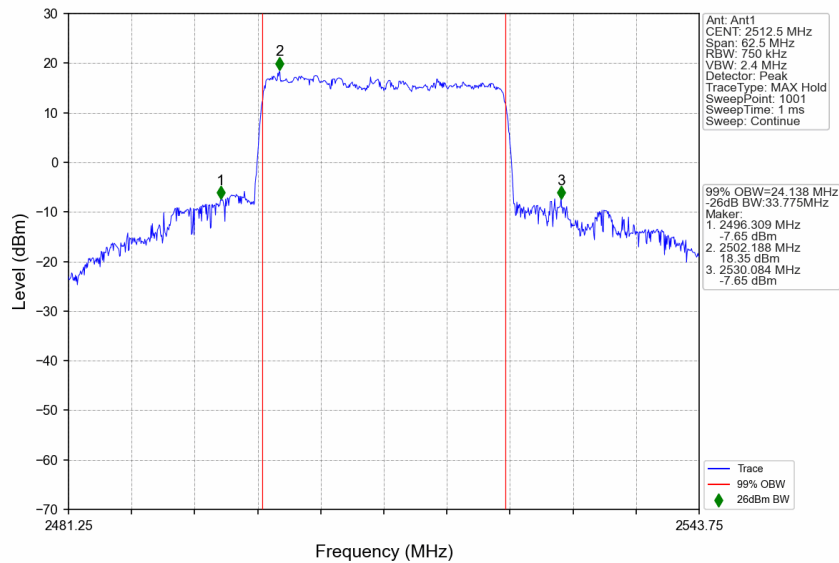
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n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2512.5MHz_Outer_Full

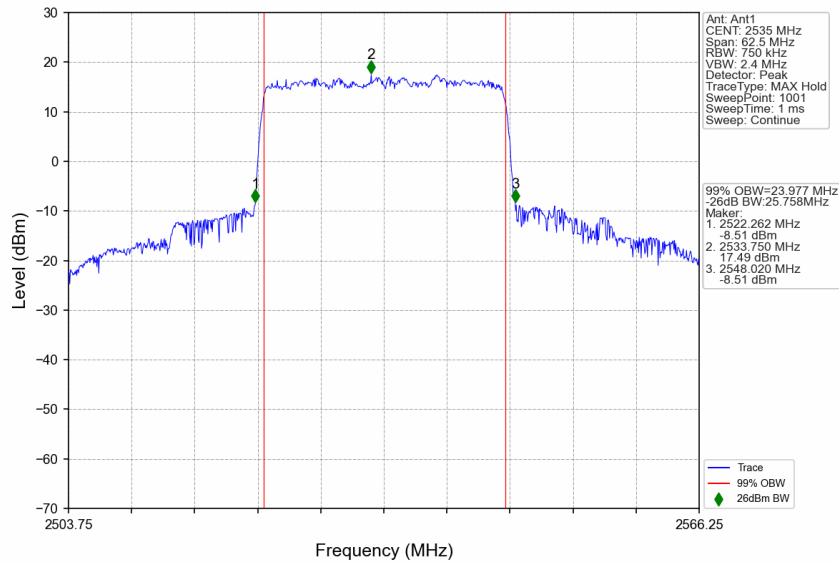


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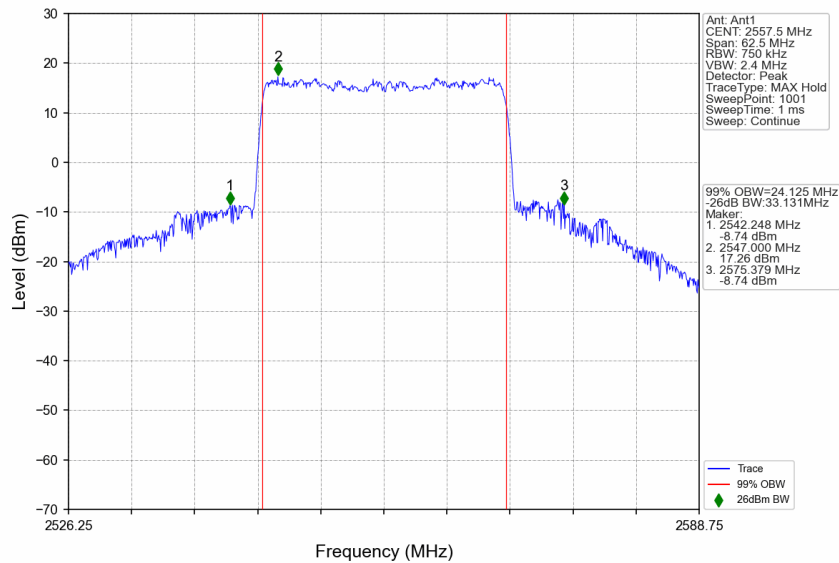
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n7_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2535MHz_Outer_Full



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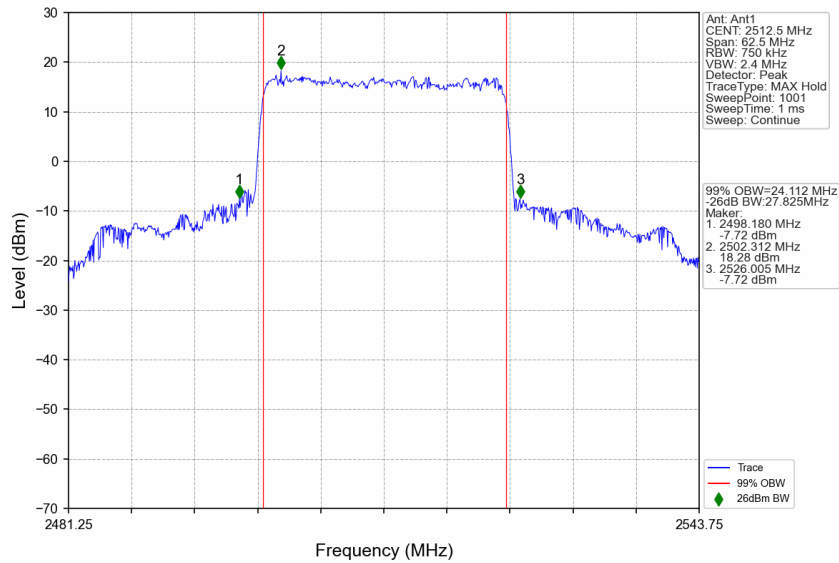


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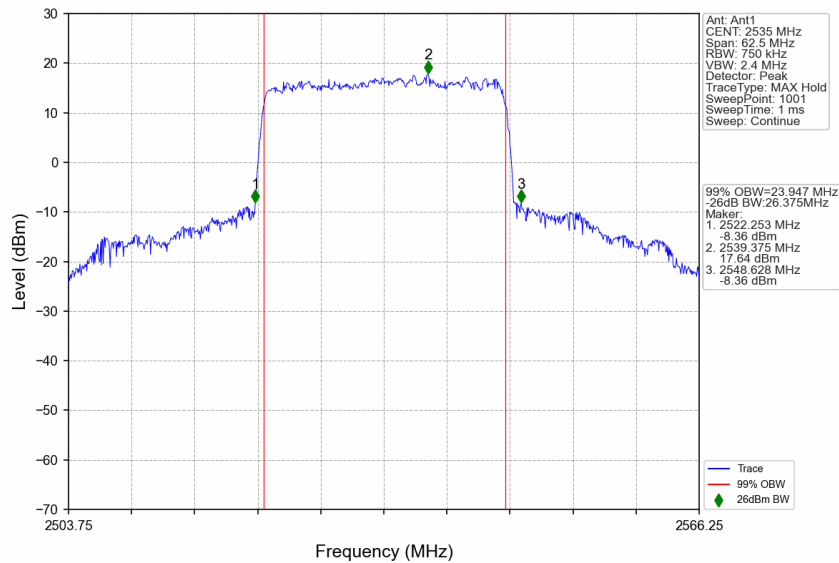
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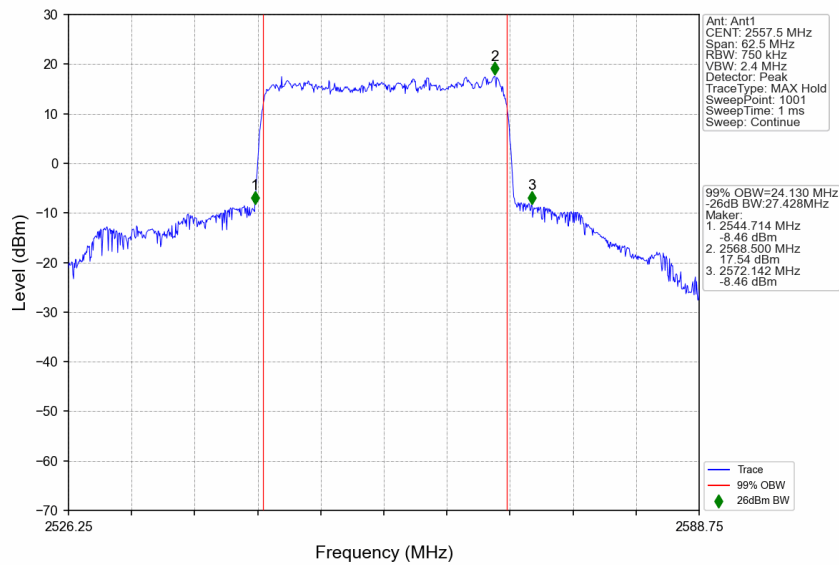


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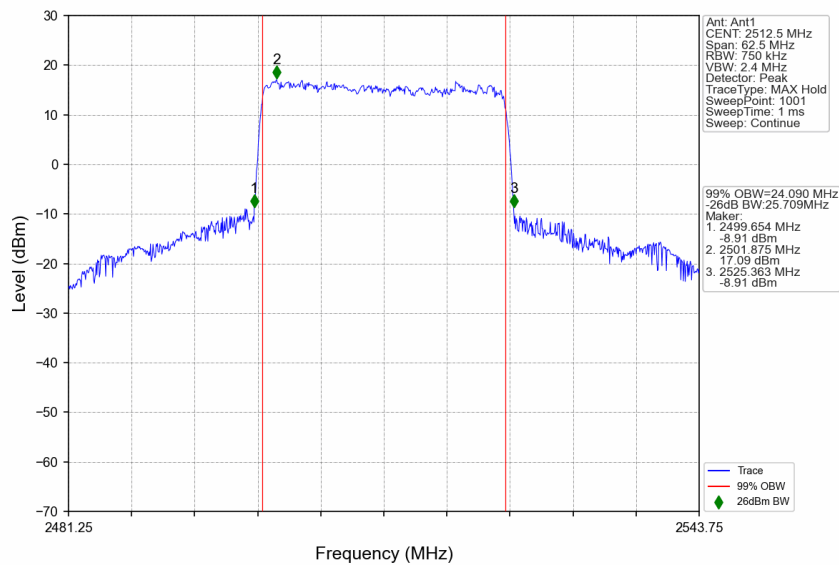
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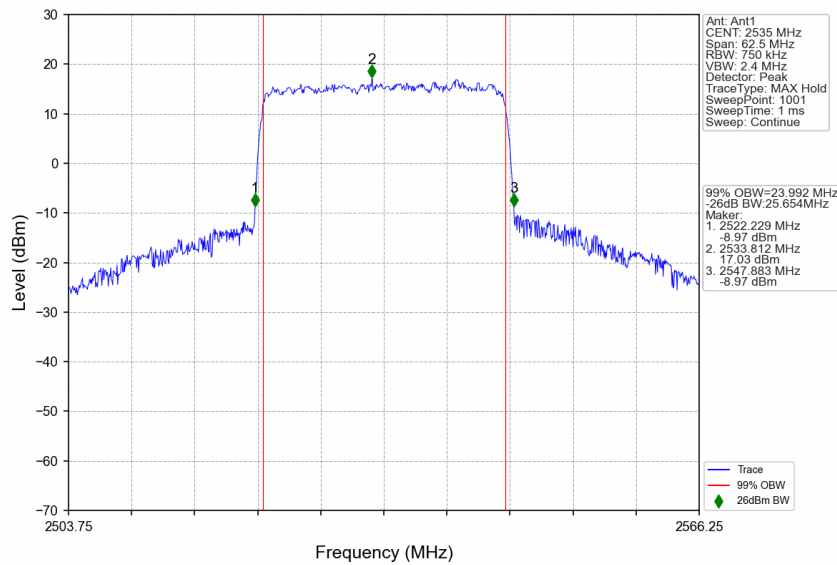


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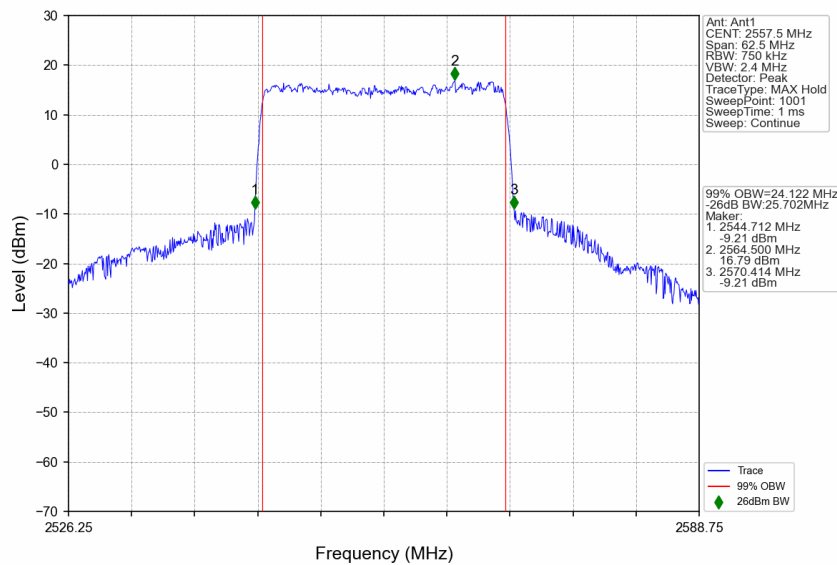
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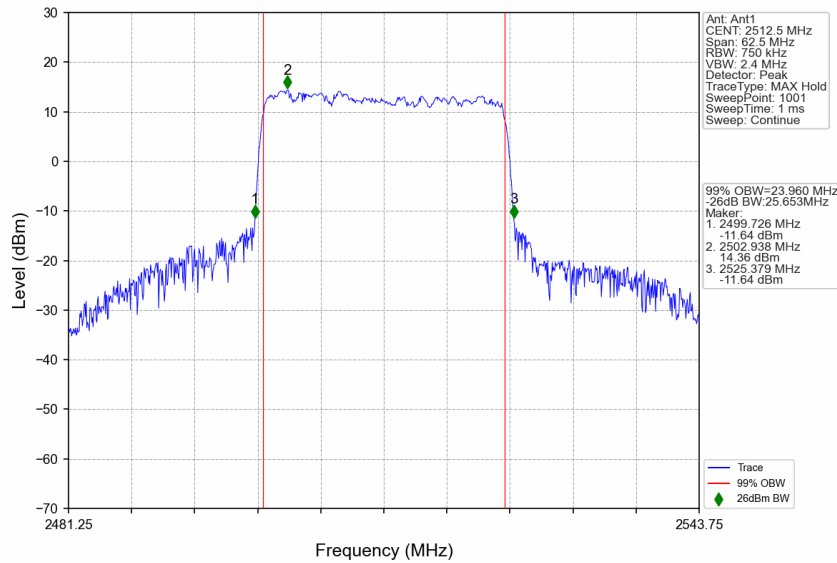
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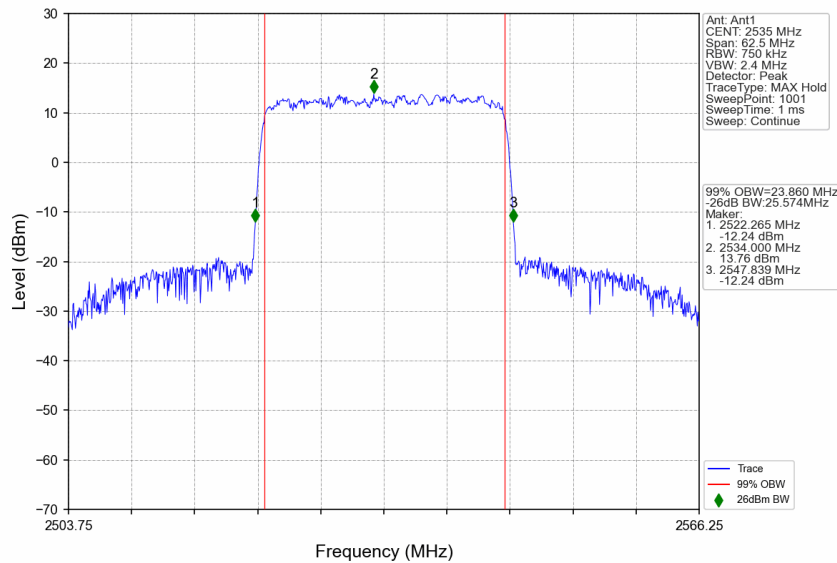
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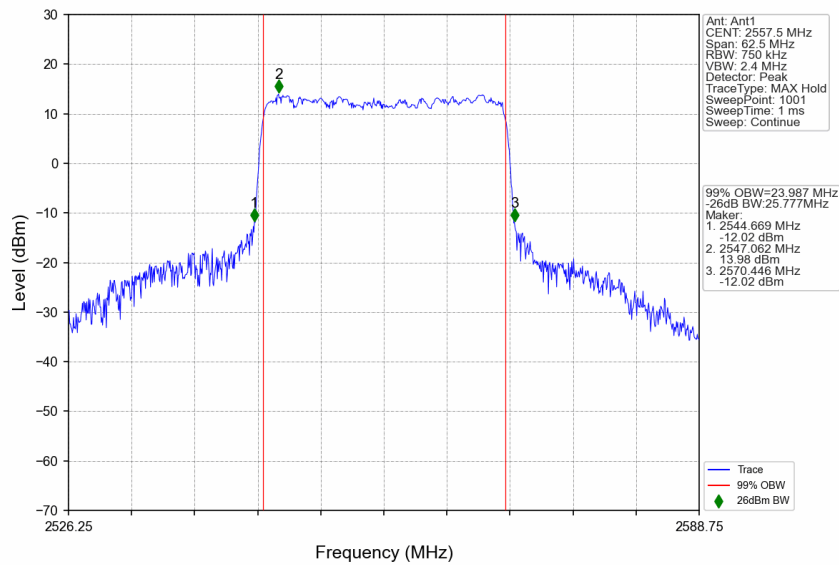
n7_15kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full



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 Wireless Laboratory

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4.6 15k_SISO_30MHz_NTNV

4.6.1 Test Result

5G NR n7 SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2515	Outer_Full	28.96	30.86	/	Pass
	2535	Outer_Full	28.80	30.84	/	Pass
	2555	Outer_Full	28.96	30.91	/	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	28.94	30.96	/	Pass
	2535	Outer_Full	28.79	30.82	/	Pass
	2555	Outer_Full	28.90	30.93	/	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	28.90	30.87	/	Pass
	2535	Outer_Full	28.71	30.84	/	Pass
	2555	Outer_Full	28.88	30.89	/	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	29.01	30.98	/	Pass
	2535	Outer_Full	28.79	30.83	/	Pass
	2555	Outer_Full	28.99	30.91	/	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	28.84	30.90	/	Pass
	2535	Outer_Full	28.64	30.72	/	Pass
	2555	Outer_Full	28.85	30.85	/	Pass
CP-OFDM QPSK	2515	Outer_Full	29.08	39.60	/	Pass
	2535	Outer_Full	28.88	33.22	/	Pass
	2555	Outer_Full	29.07	37.66	/	Pass
CP-OFDM 16 QAM	2515	Outer_Full	28.94	35.44	/	Pass
	2535	Outer_Full	28.74	33.17	/	Pass
	2555	Outer_Full	28.91	37.00	/	Pass
CP-OFDM 64 QAM	2515	Outer_Full	28.94	33.93	/	Pass
	2535	Outer_Full	28.76	32.02	/	Pass
	2555	Outer_Full	28.93	36.82	/	Pass
CP-OFDM 256 QAM	2515	Outer_Full	28.87	30.82	/	Pass
	2535	Outer_Full	28.70	30.77	/	Pass
	2555	Outer_Full	28.87	30.81	/	Pass

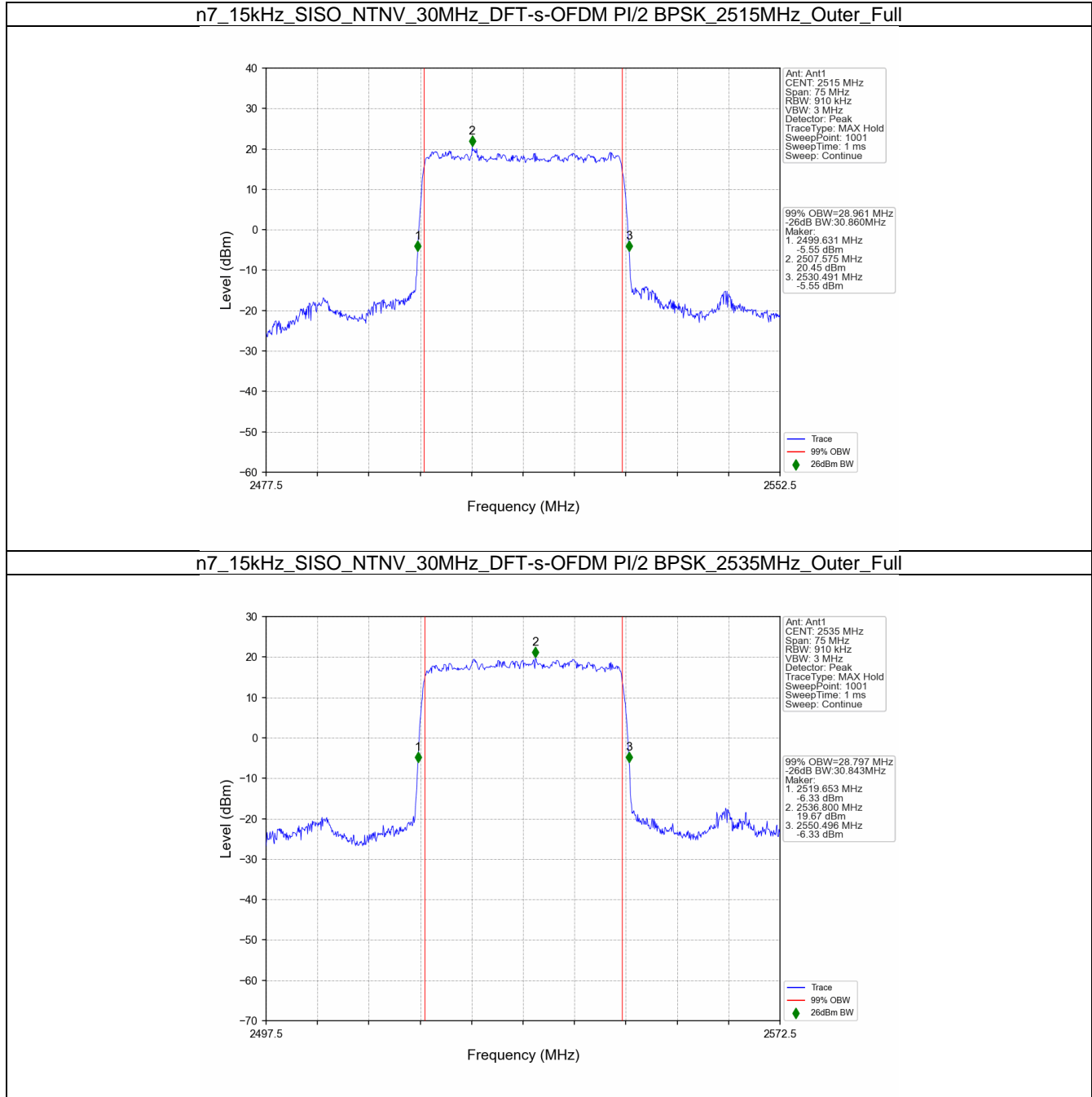


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4.6.2 Test Graph

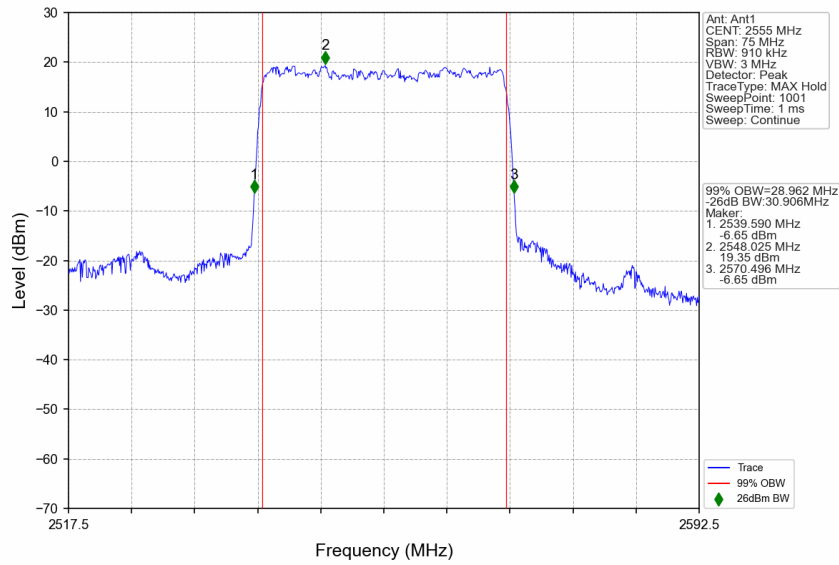


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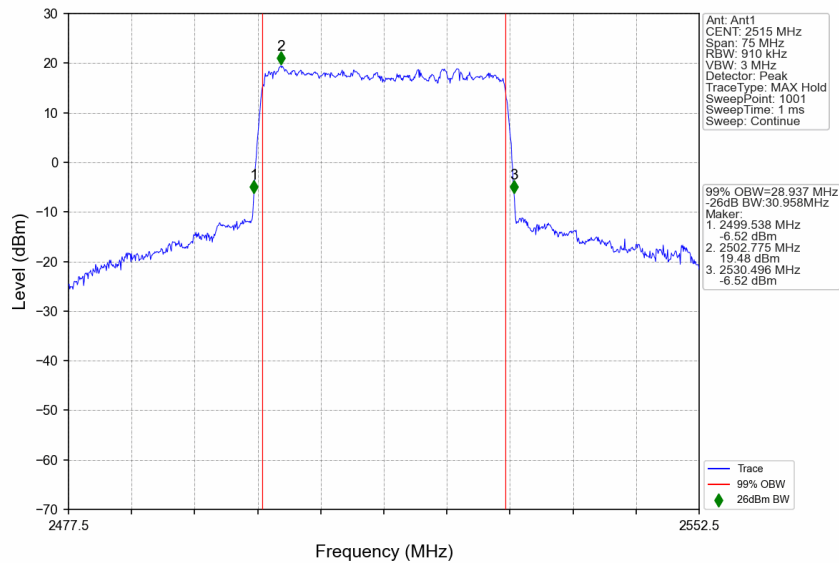
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n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2515MHz_Outer_Full

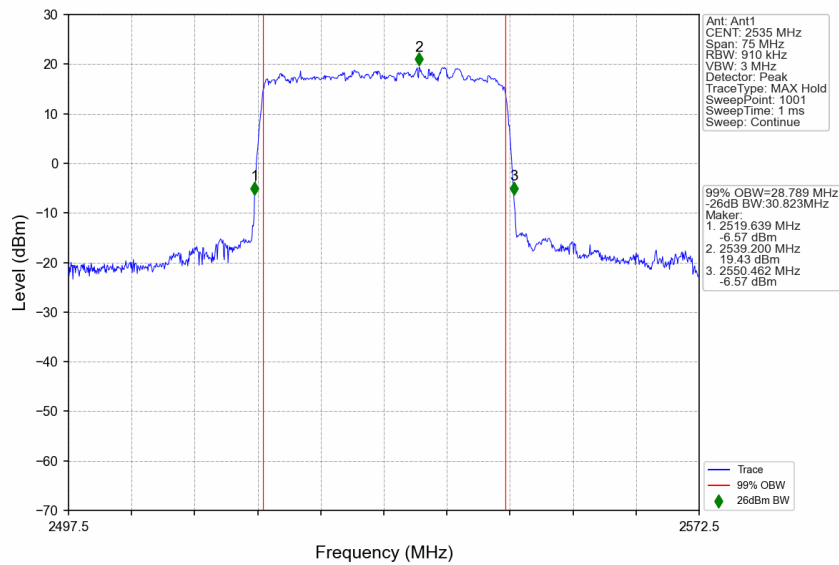


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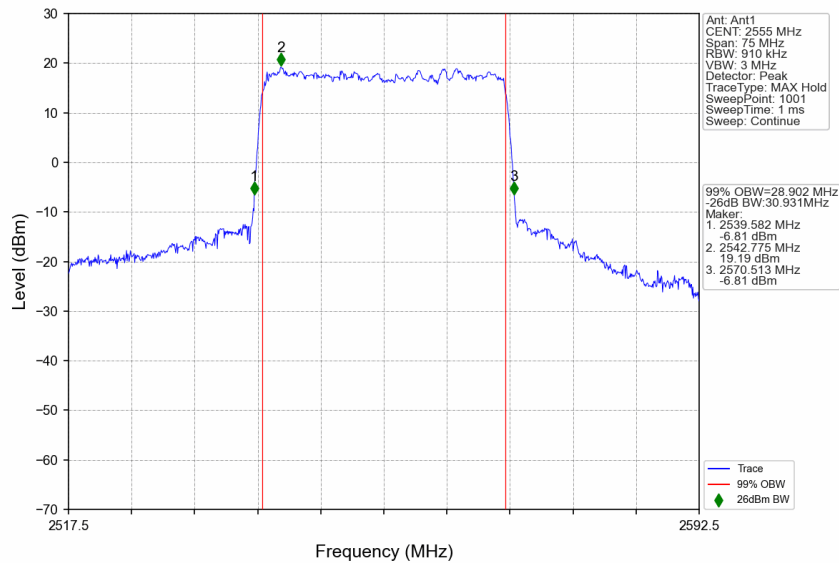
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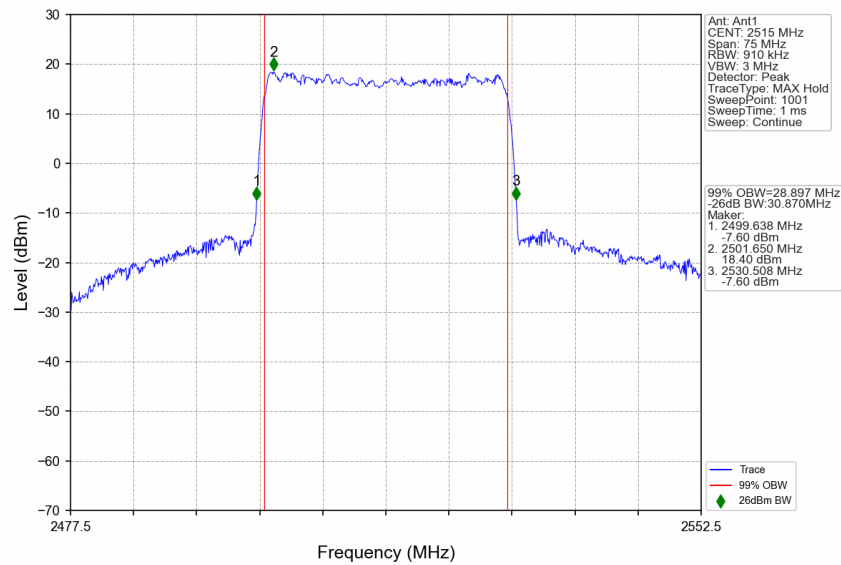


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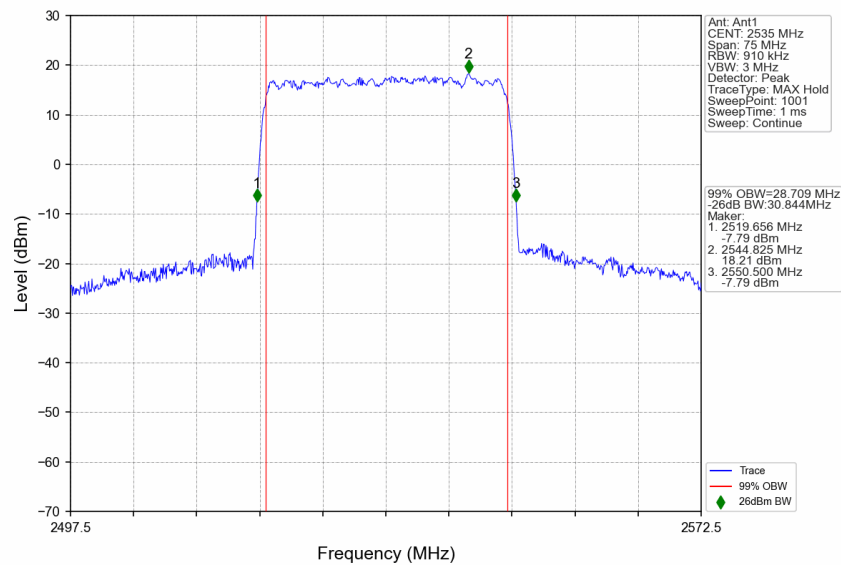
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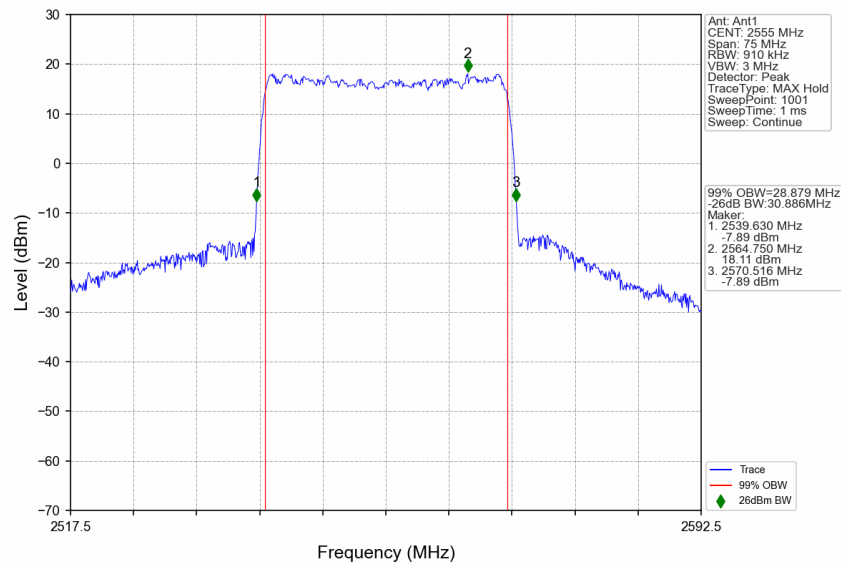


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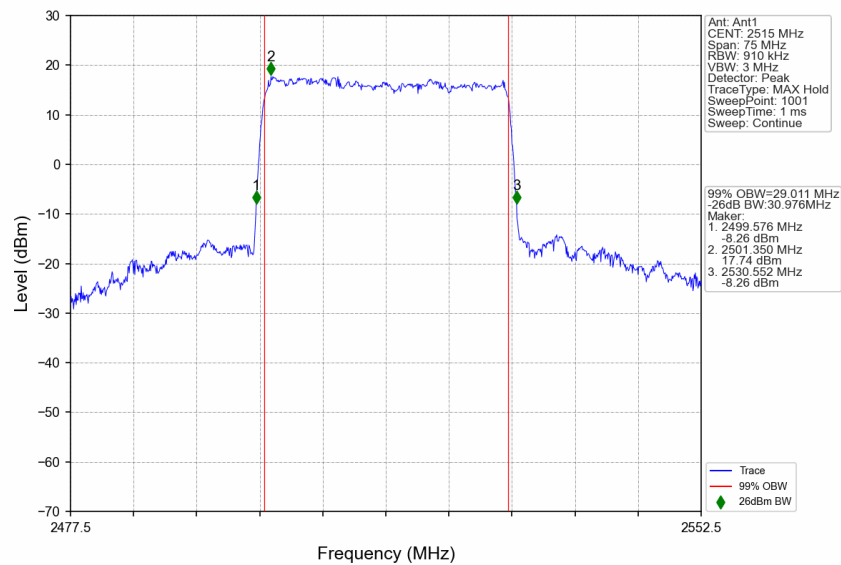
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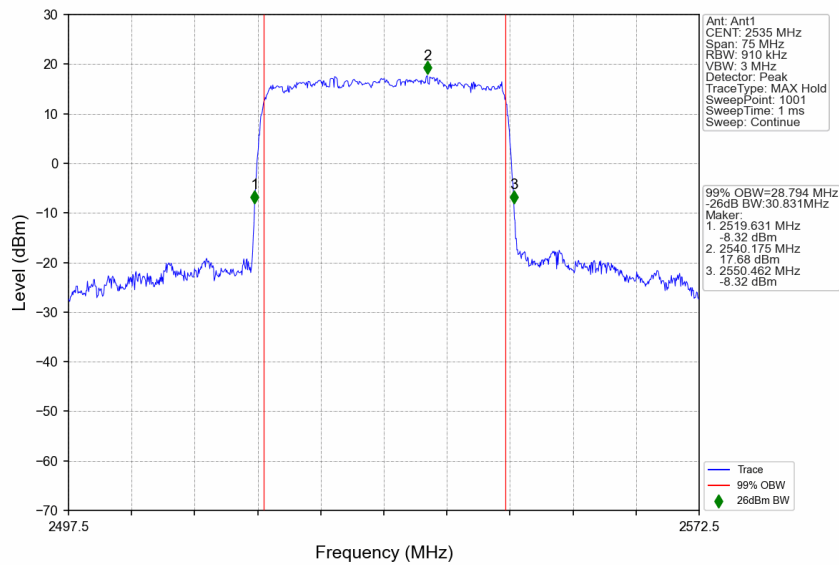


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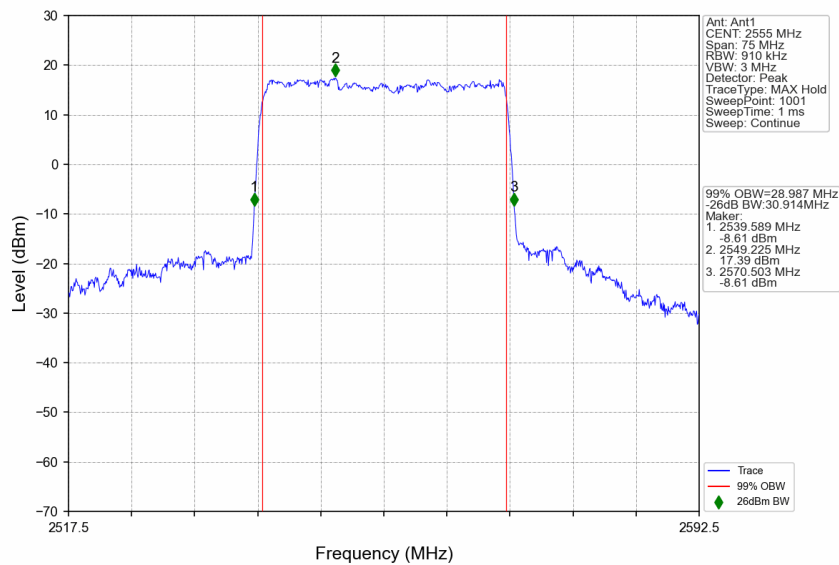
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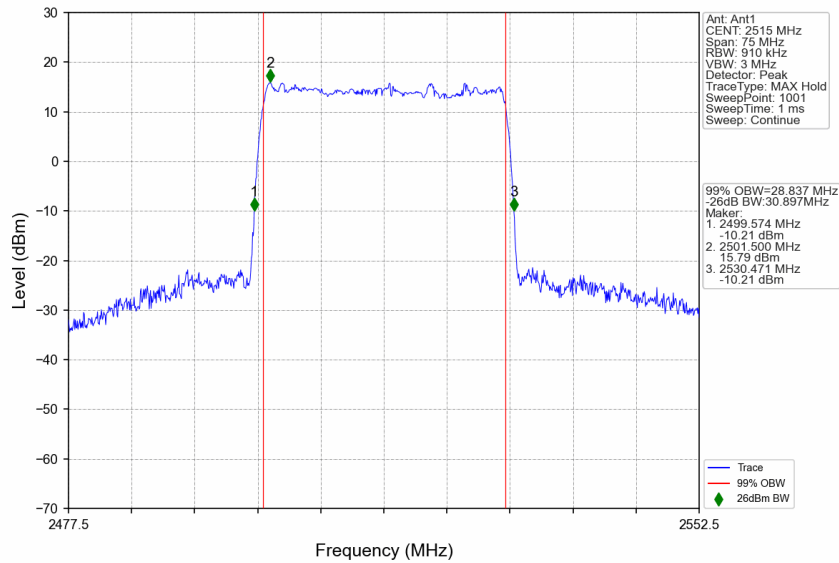
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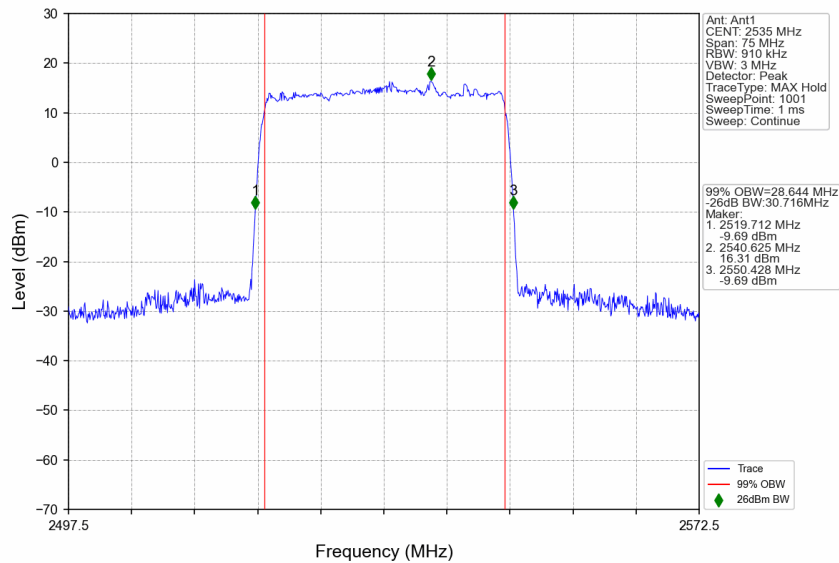
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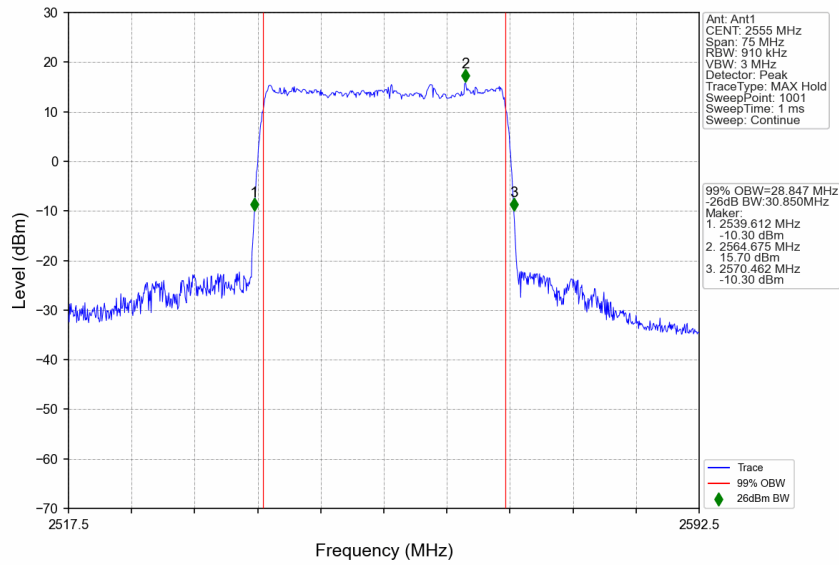


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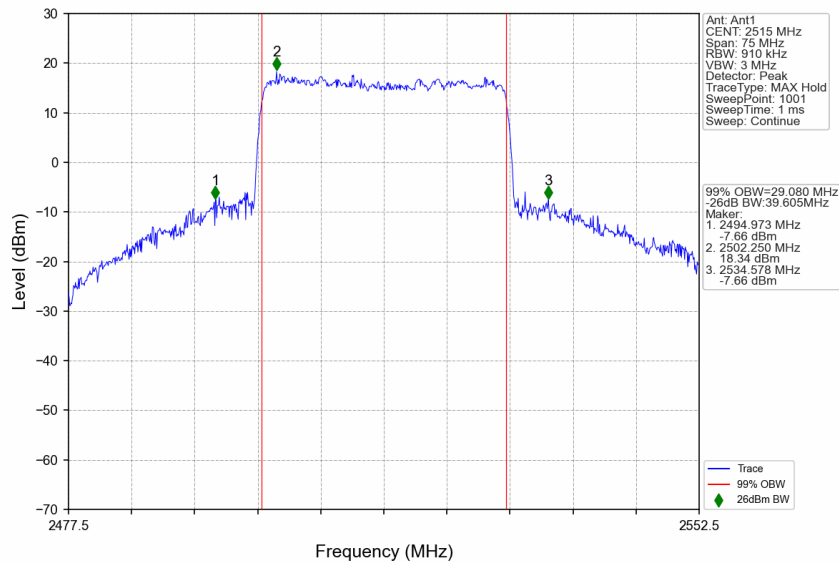
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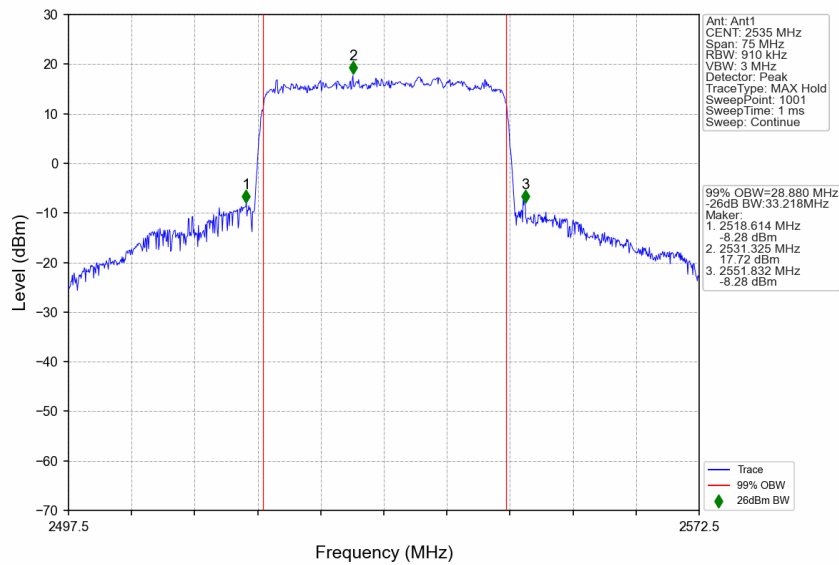


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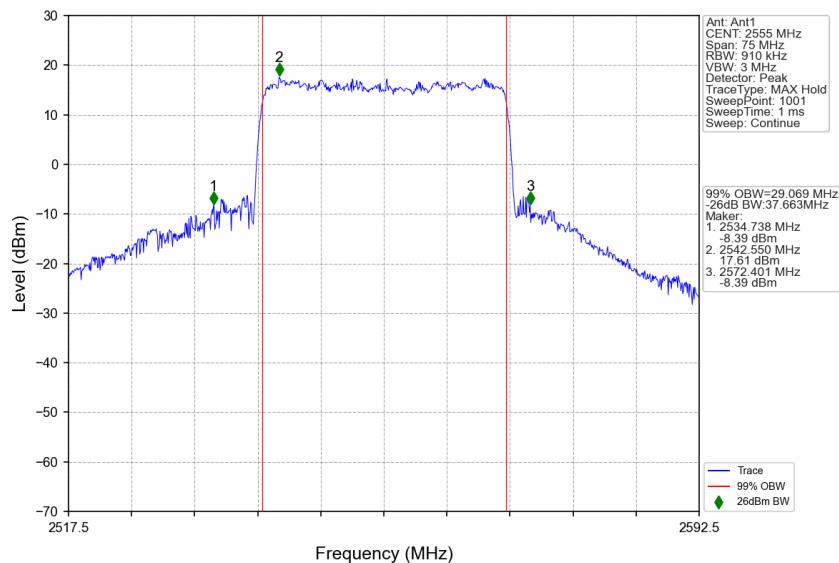
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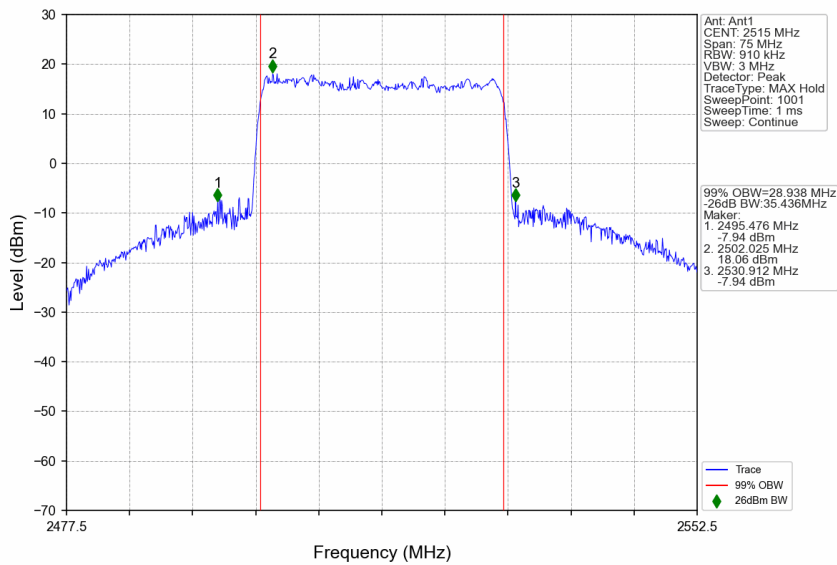


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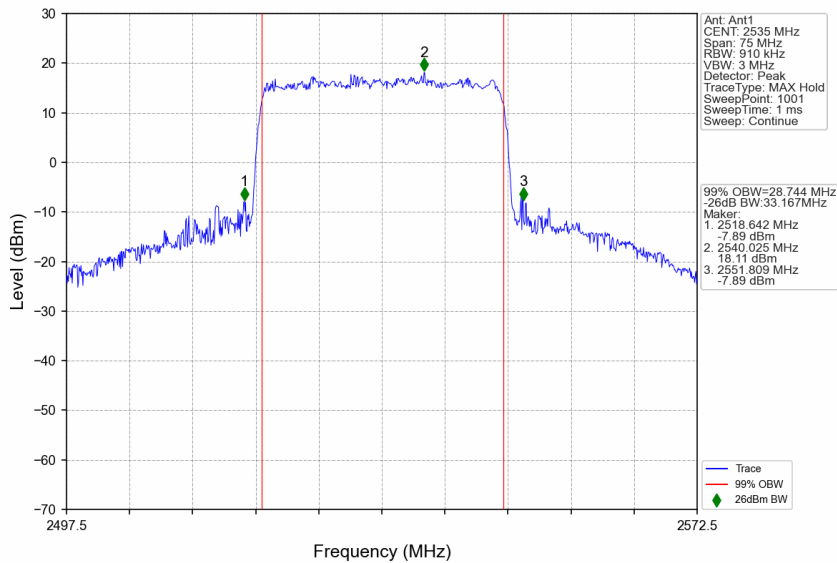
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n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2515MHz_Outer_Full



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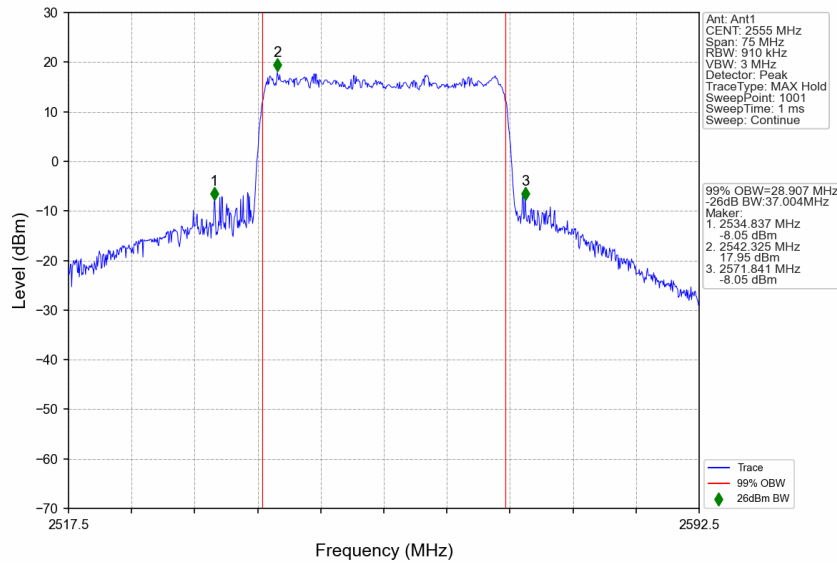


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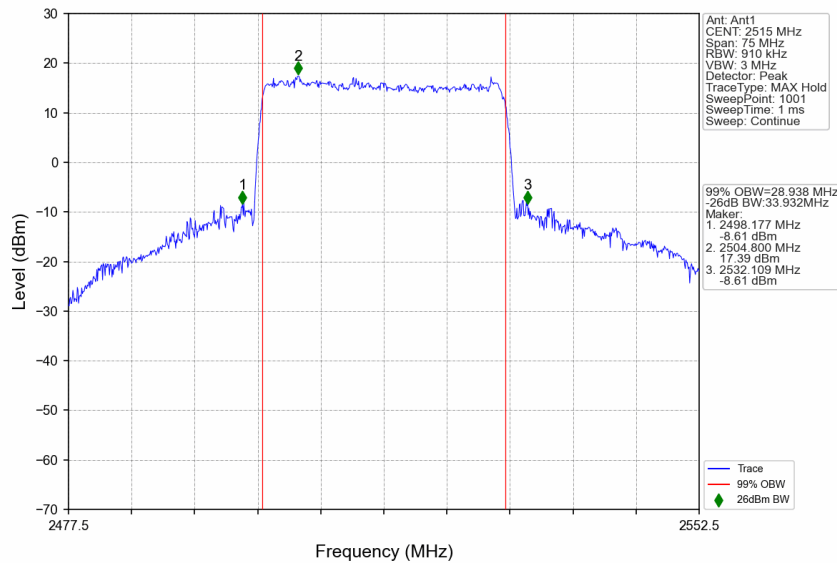
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n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2515MHz_Outer_Full

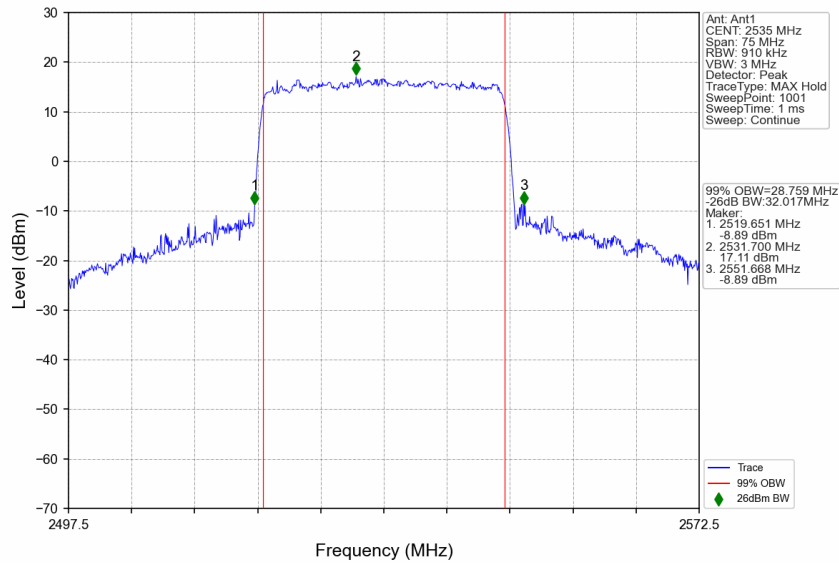


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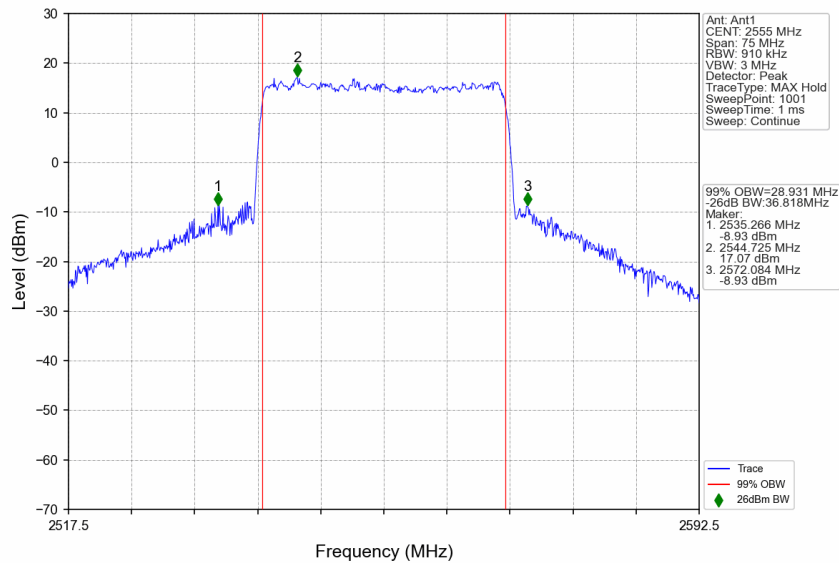
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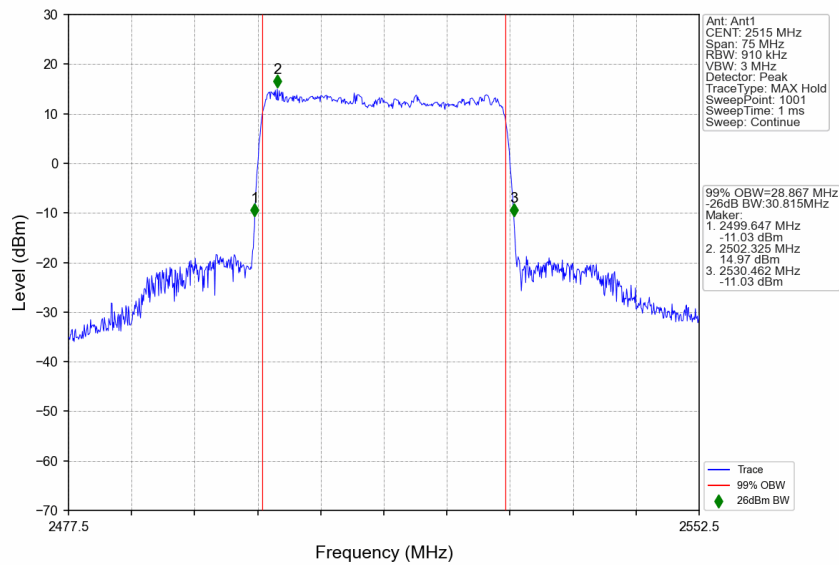


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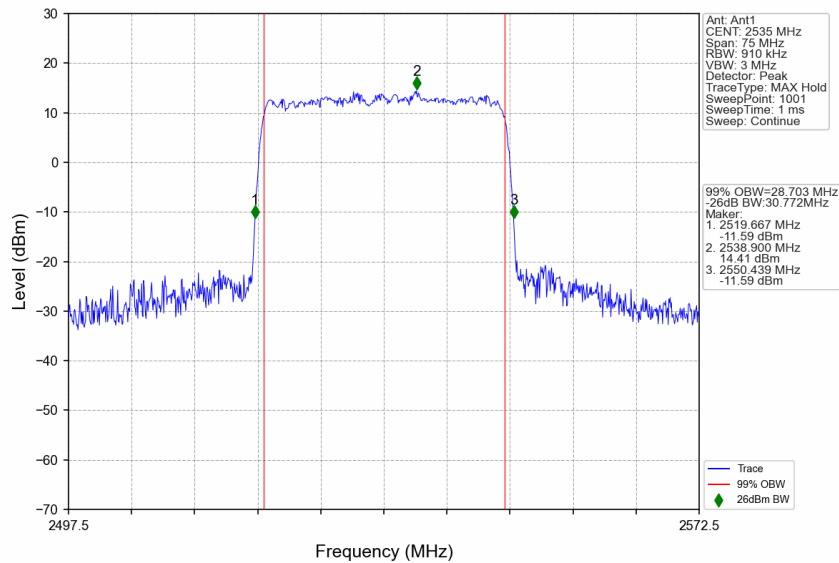
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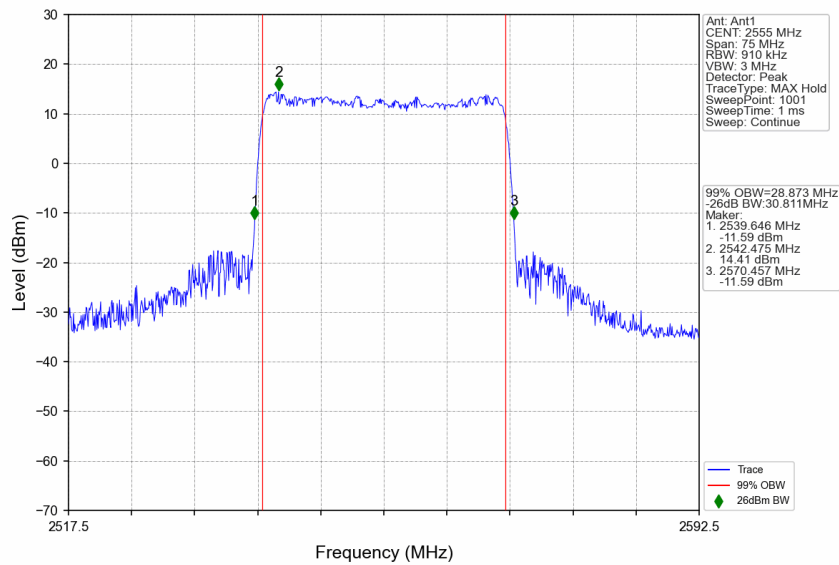


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 Wireless Laboratory

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4.7 15k_SISO_40MHz_NTNV

4.7.1 Test Result

5G NR n7 SCS=15kHz SISO 40MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2520	Outer_Full	39.08	41.74	/	Pass
	2535	Outer_Full	38.78	41.50	/	Pass
	2550	Outer_Full	38.92	41.49	/	Pass
DFT-s-OFDM QPSK	2520	Outer_Full	39.16	41.65	/	Pass
	2535	Outer_Full	38.95	41.51	/	Pass
	2550	Outer_Full	39.04	41.65	/	Pass
DFT-s-OFDM 16 QAM	2520	Outer_Full	38.99	41.58	/	Pass
	2535	Outer_Full	38.76	41.51	/	Pass
	2550	Outer_Full	38.87	41.56	/	Pass
DFT-s-OFDM 64 QAM	2520	Outer_Full	39.12	41.67	/	Pass
	2535	Outer_Full	38.88	41.49	/	Pass
	2550	Outer_Full	39.07	41.57	/	Pass
DFT-s-OFDM 256 QAM	2520	Outer_Full	39.02	41.54	/	Pass
	2535	Outer_Full	38.84	41.40	/	Pass
	2550	Outer_Full	39.00	41.52	/	Pass
CP-OFDM QPSK	2520	Outer_Full	39.13	53.16	/	Pass
	2535	Outer_Full	38.88	52.62	/	Pass
	2550	Outer_Full	38.99	41.93	/	Pass
CP-OFDM 16 QAM	2520	Outer_Full	39.04	41.62	/	Pass
	2535	Outer_Full	38.76	41.44	/	Pass
	2550	Outer_Full	38.93	41.64	/	Pass
CP-OFDM 64 QAM	2520	Outer_Full	38.97	41.63	/	Pass
	2535	Outer_Full	38.76	41.53	/	Pass
	2550	Outer_Full	38.92	41.55	/	Pass
CP-OFDM 256 QAM	2520	Outer_Full	39.01	41.60	/	Pass
	2535	Outer_Full	38.80	41.56	/	Pass
	2550	Outer_Full	38.92	41.49	/	Pass

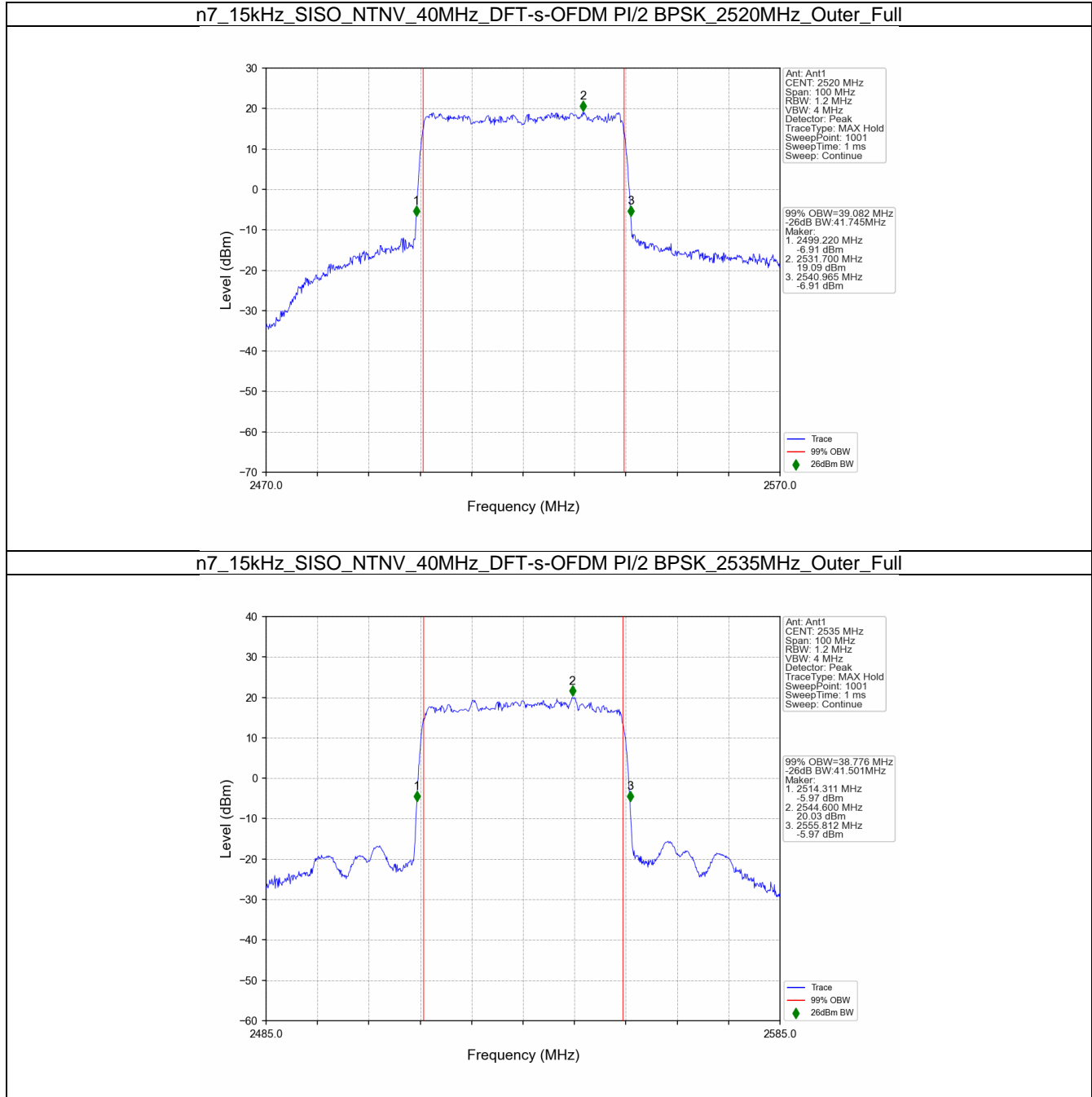


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4.7.2 Test Graph

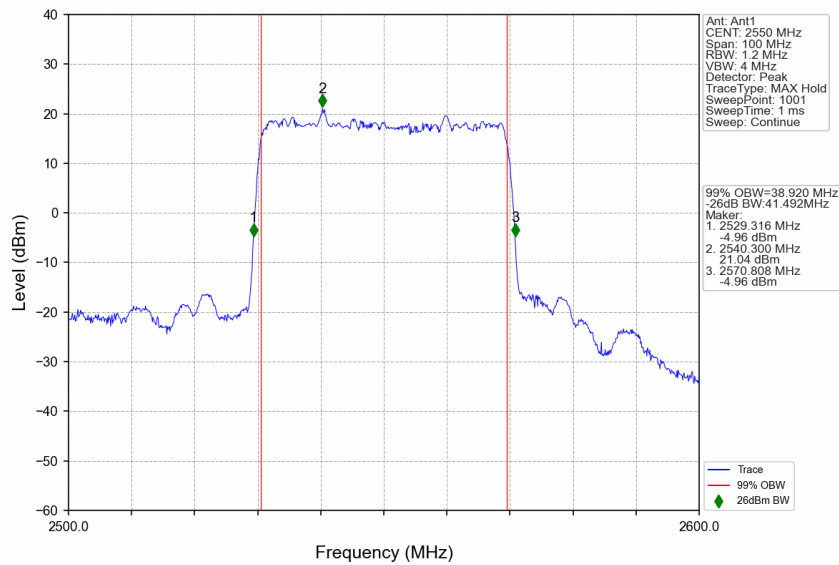


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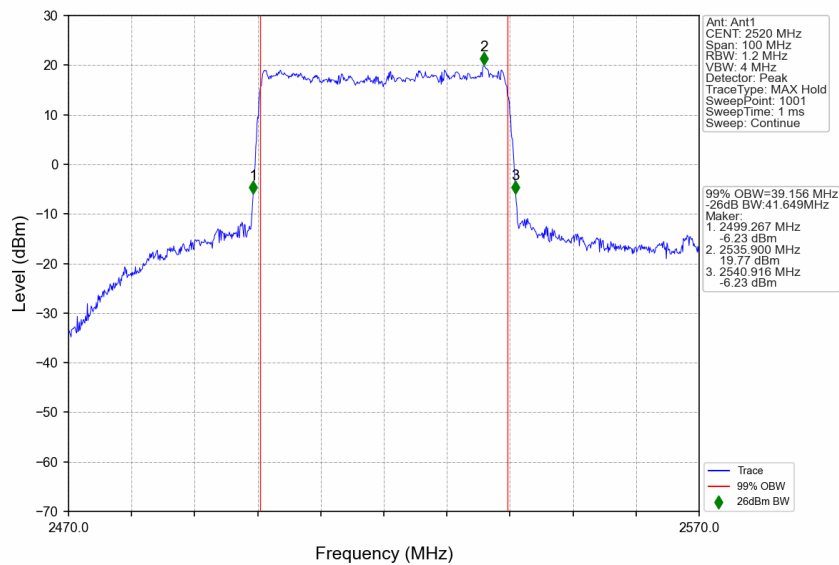
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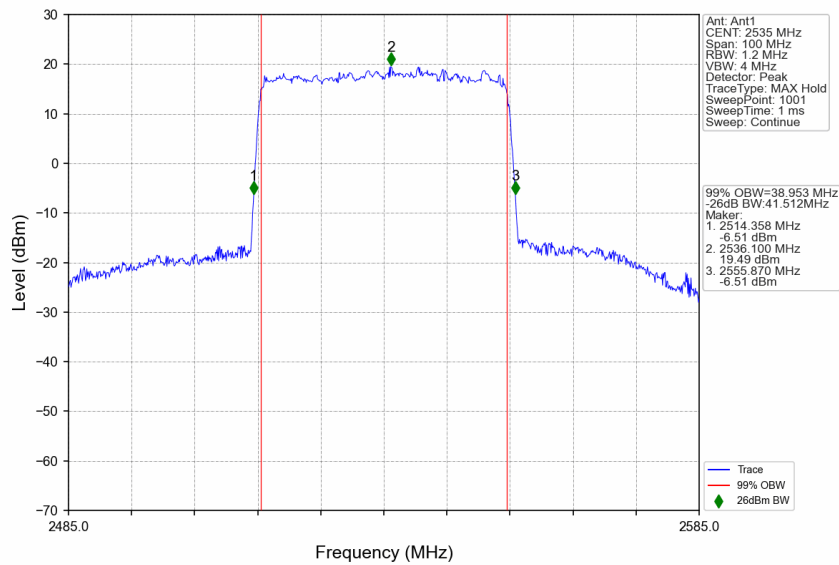
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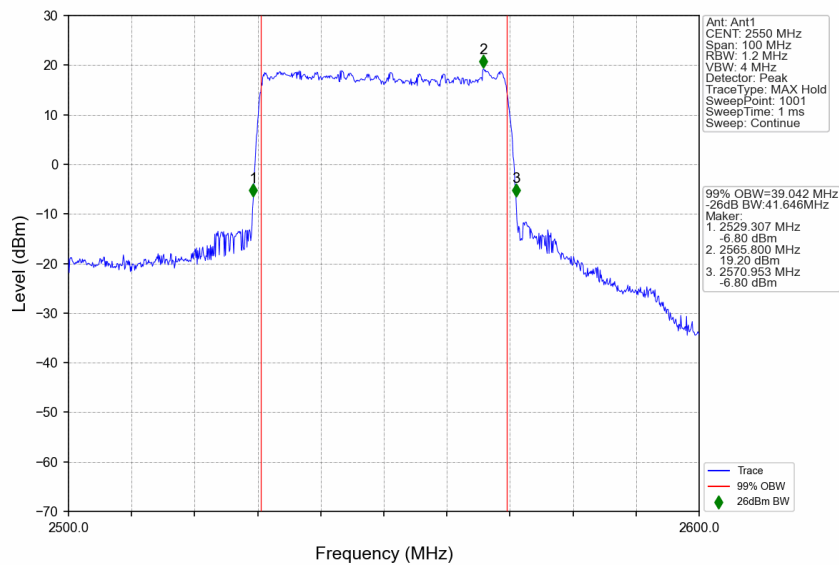
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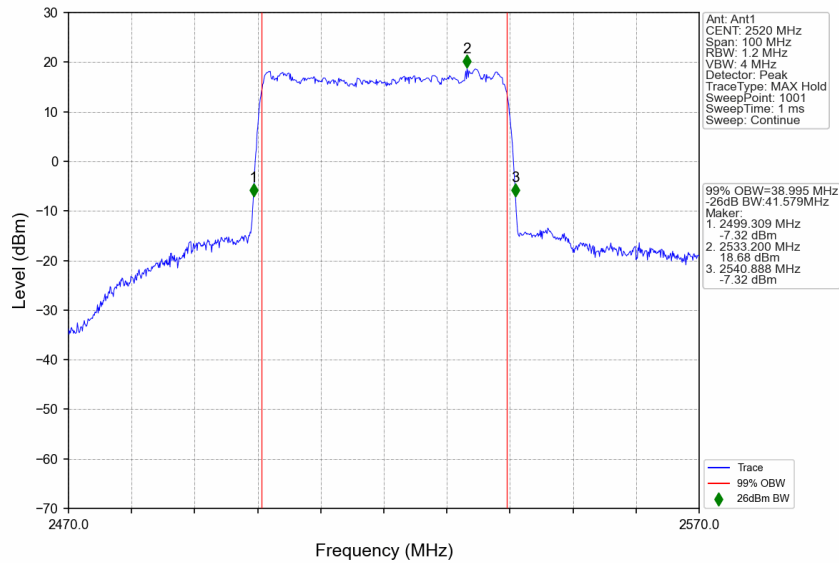


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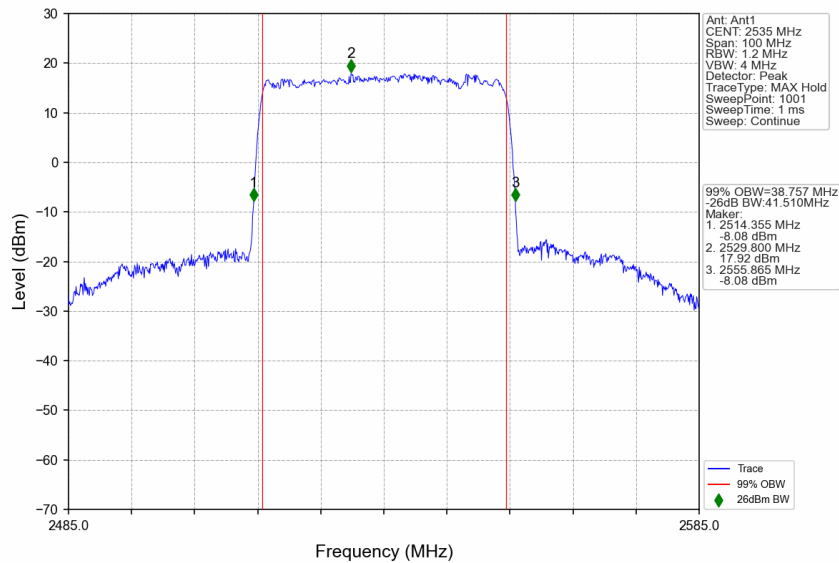
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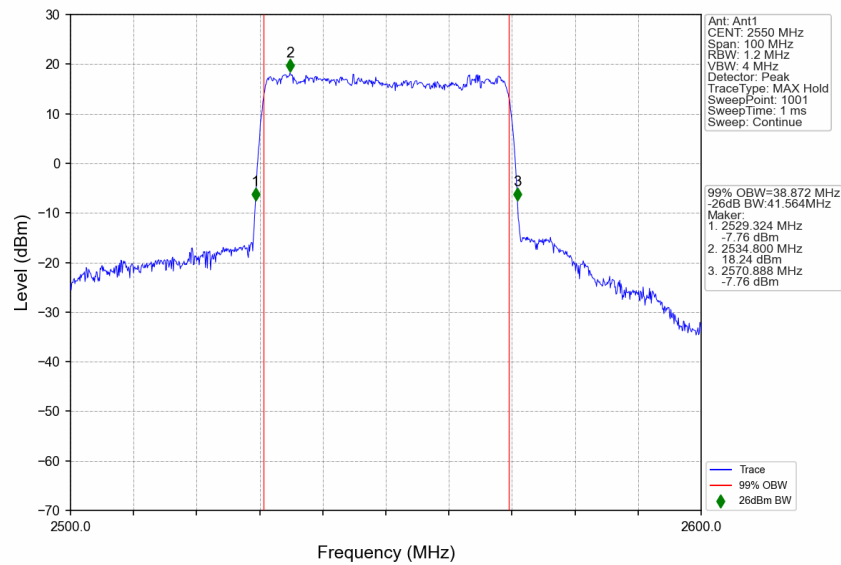


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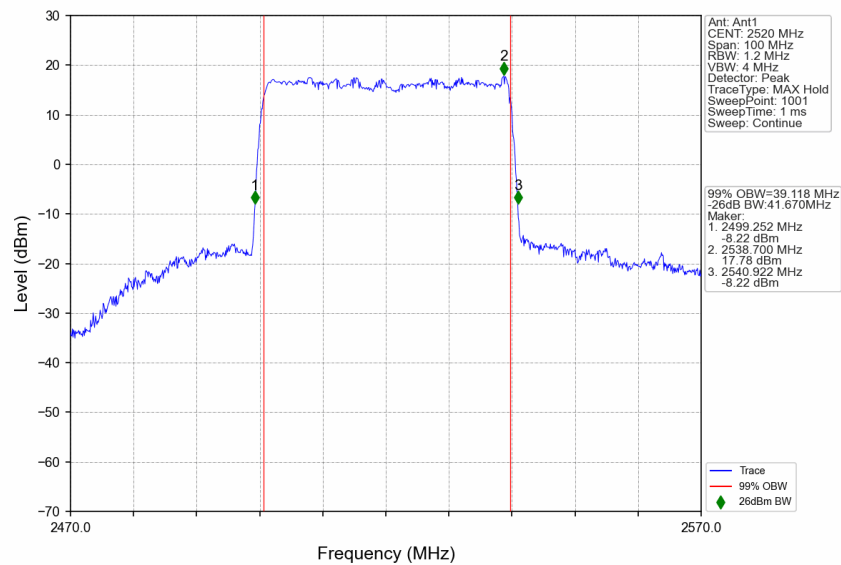
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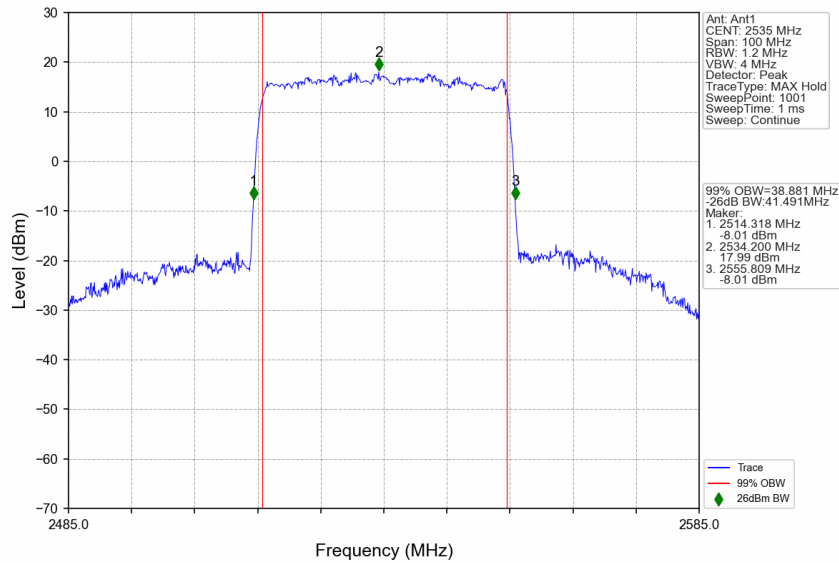


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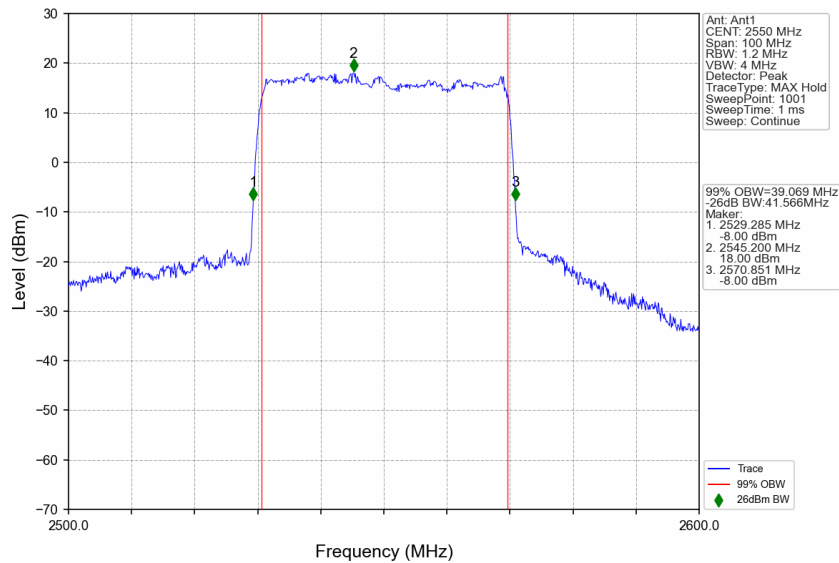
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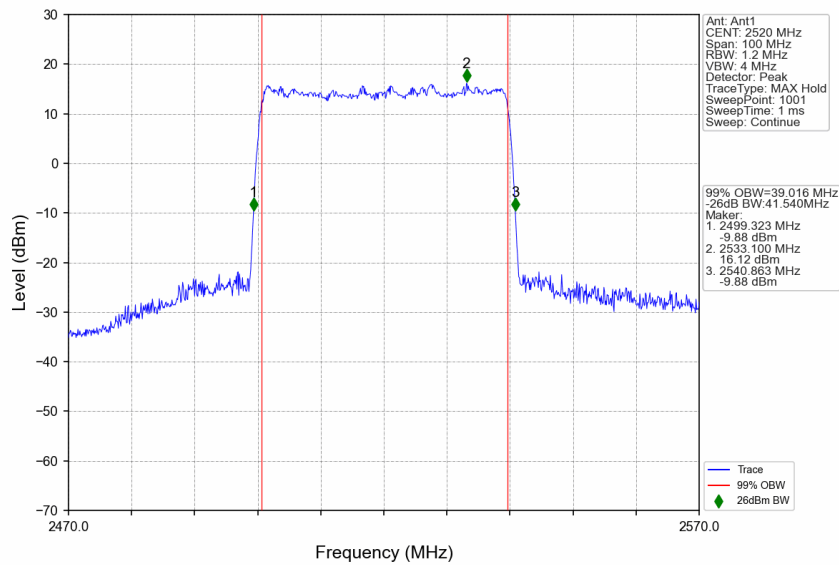


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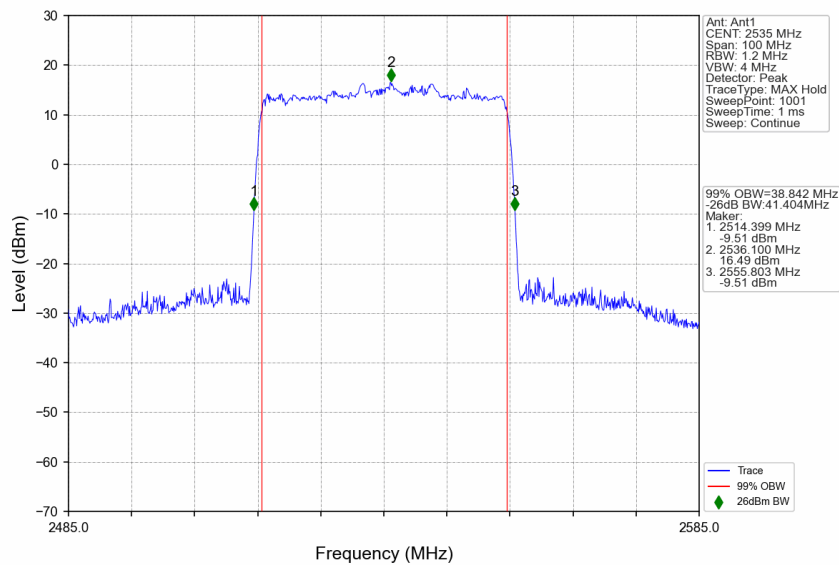
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n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2520MHz_Outer_Full



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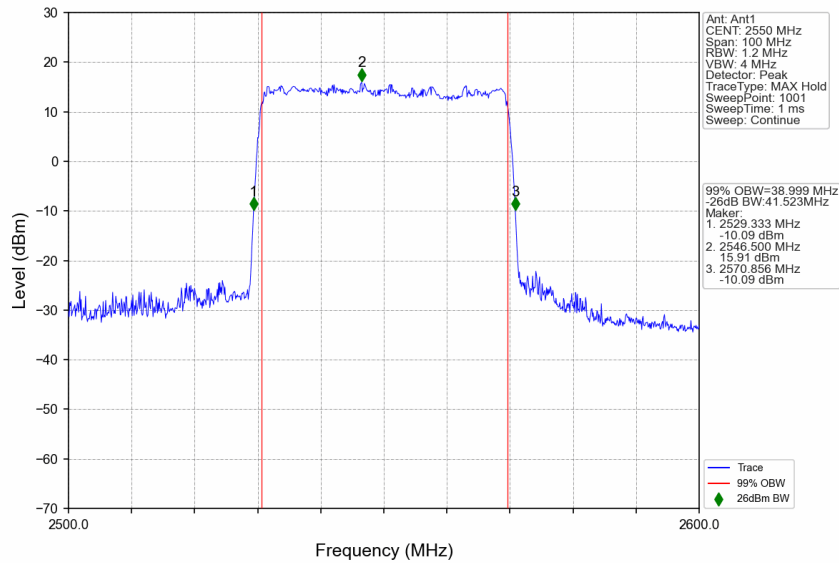


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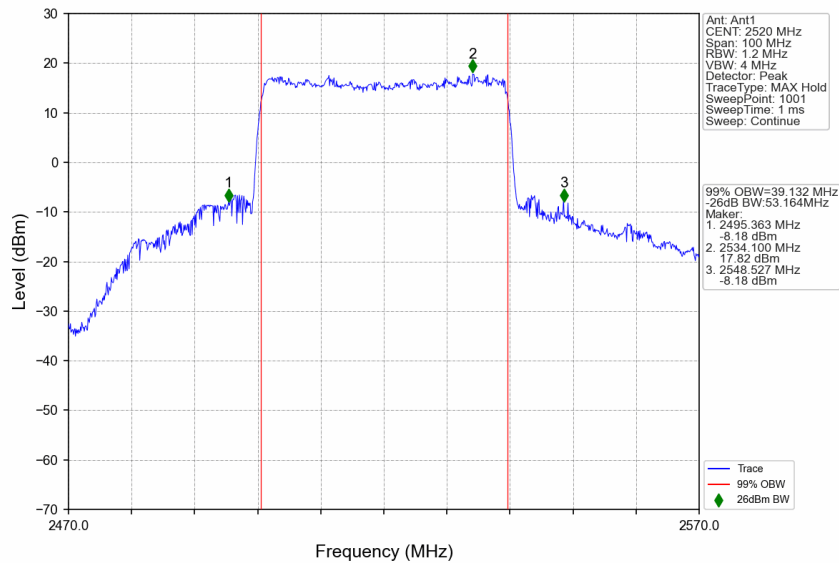
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n7_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2520MHz_Outer_Full

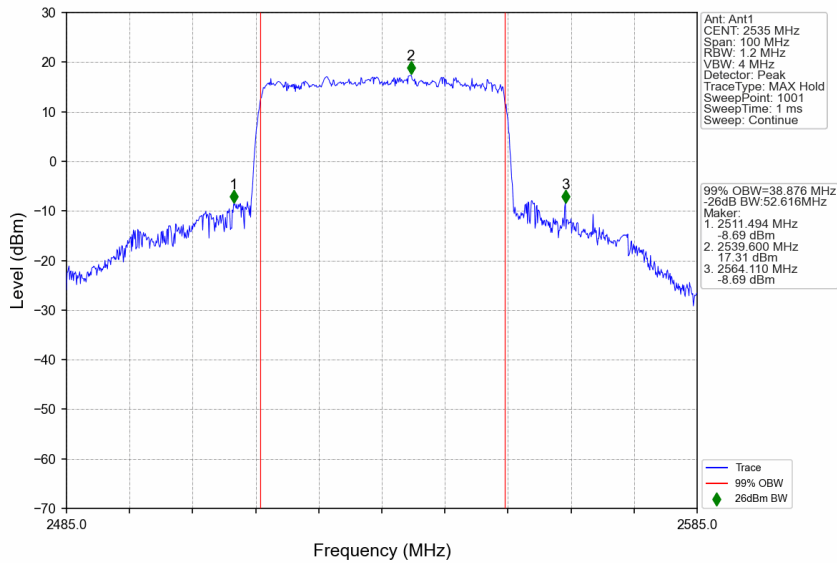


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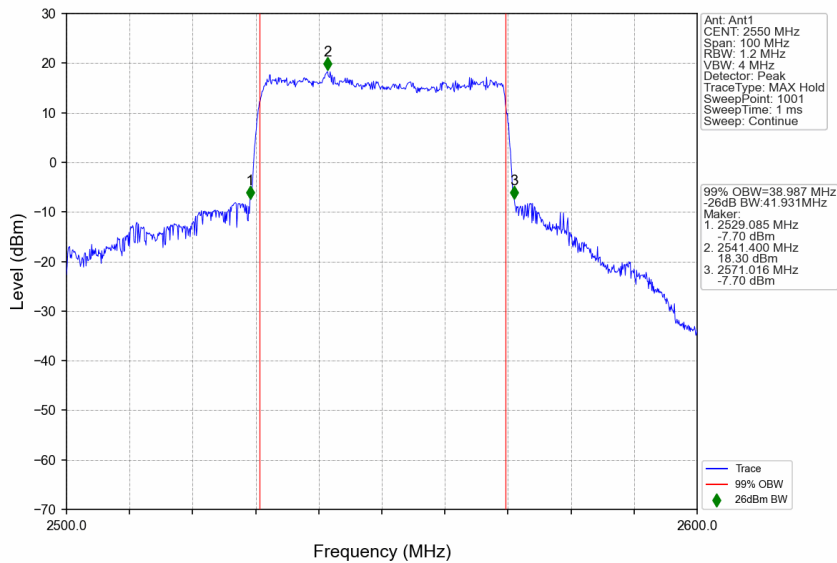
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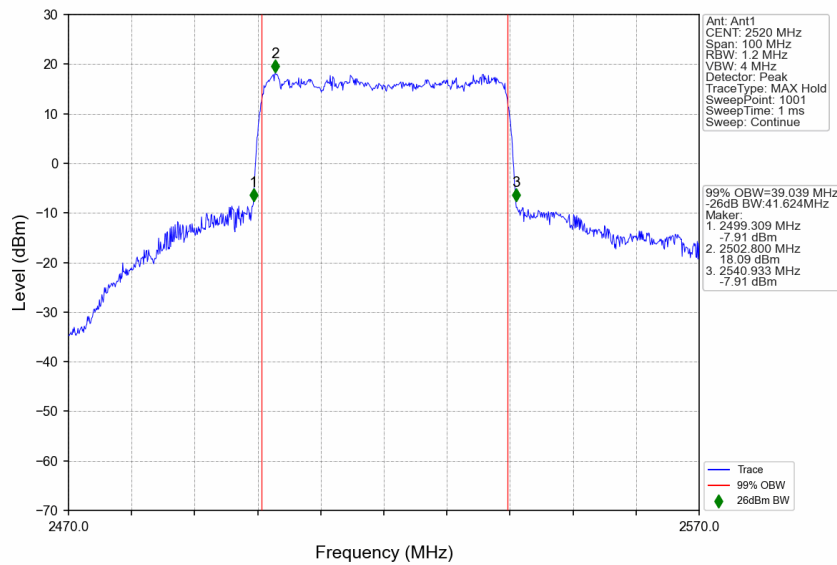


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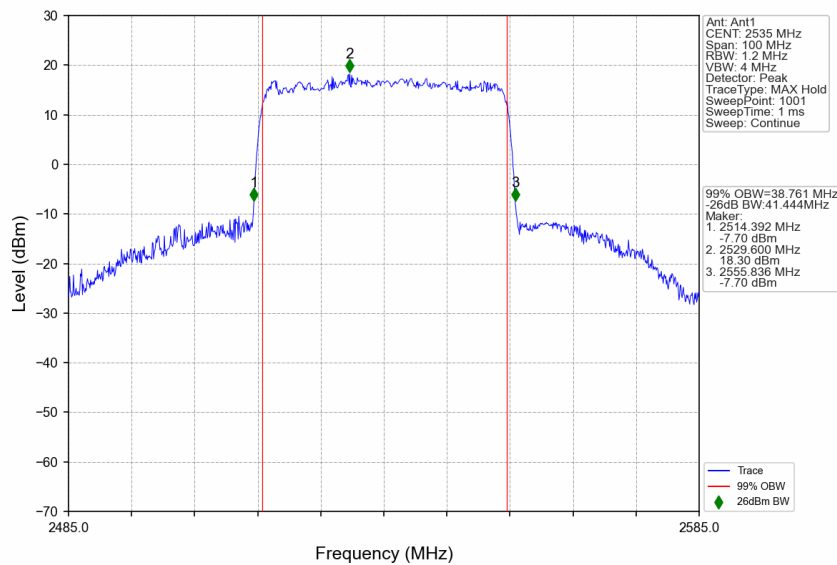
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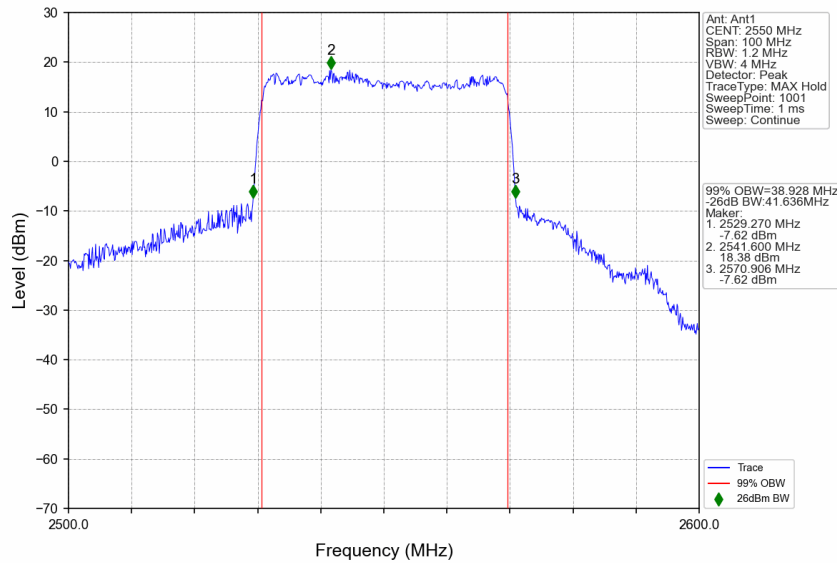


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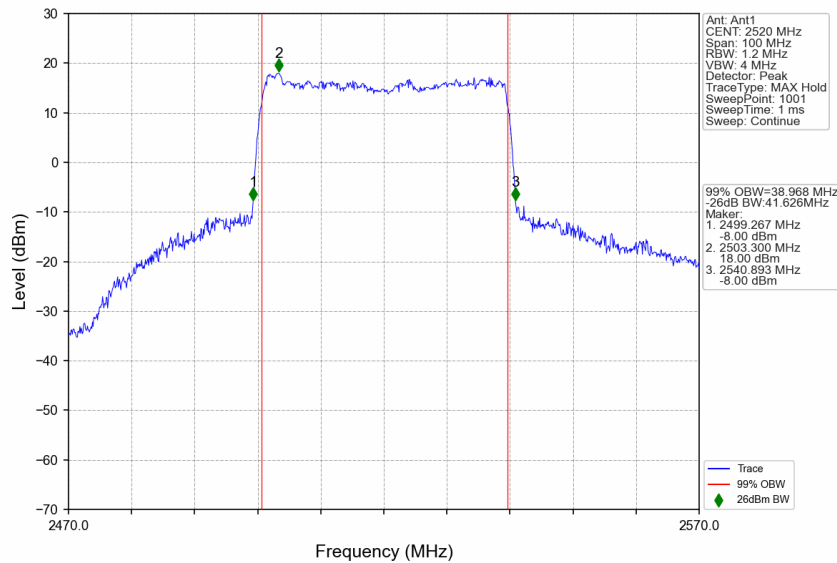
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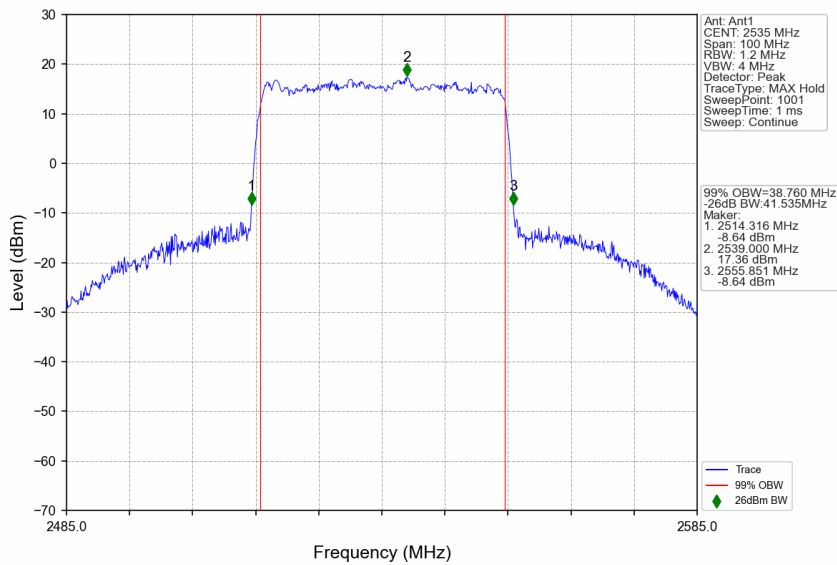


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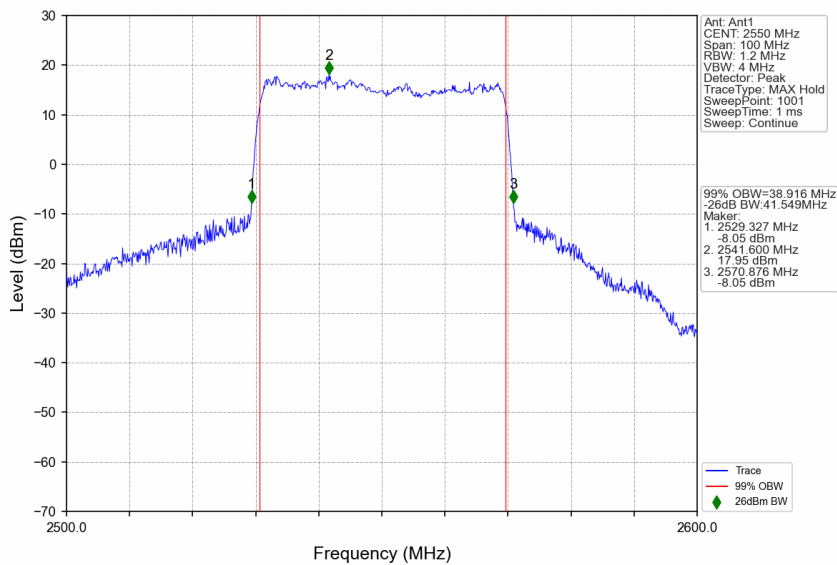
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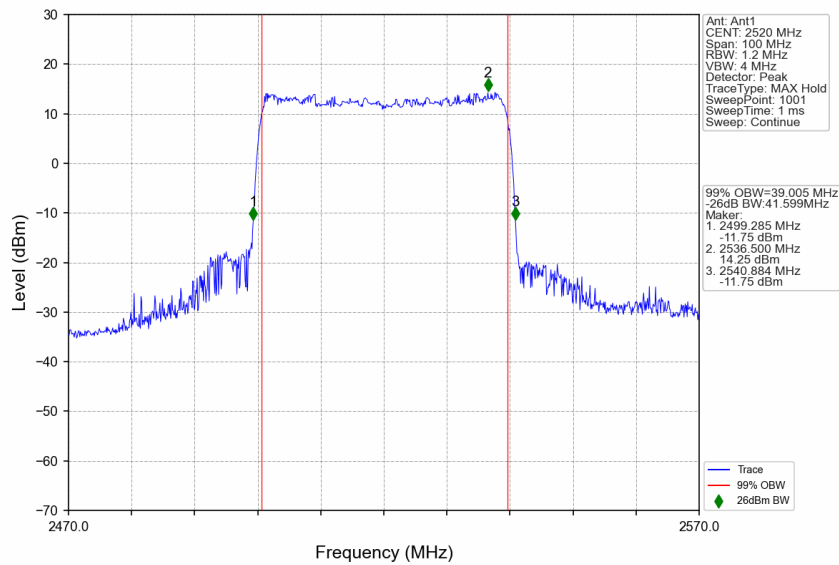


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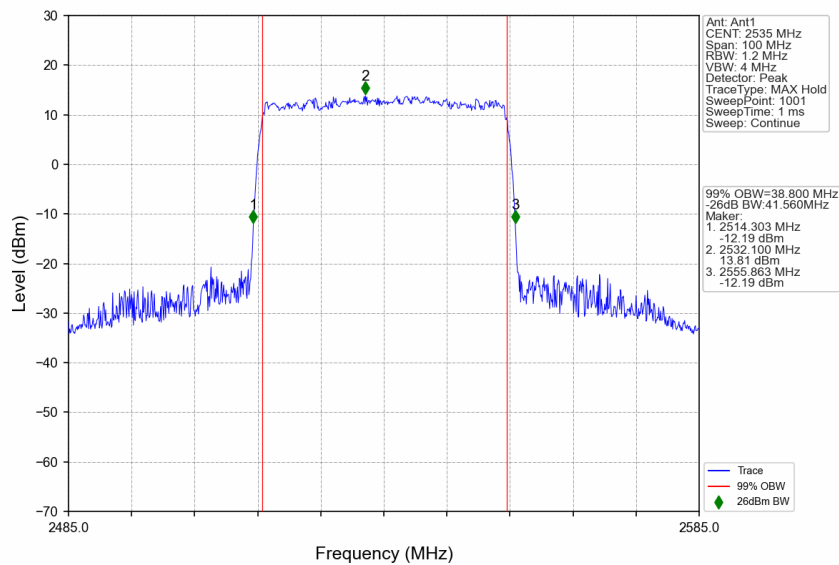
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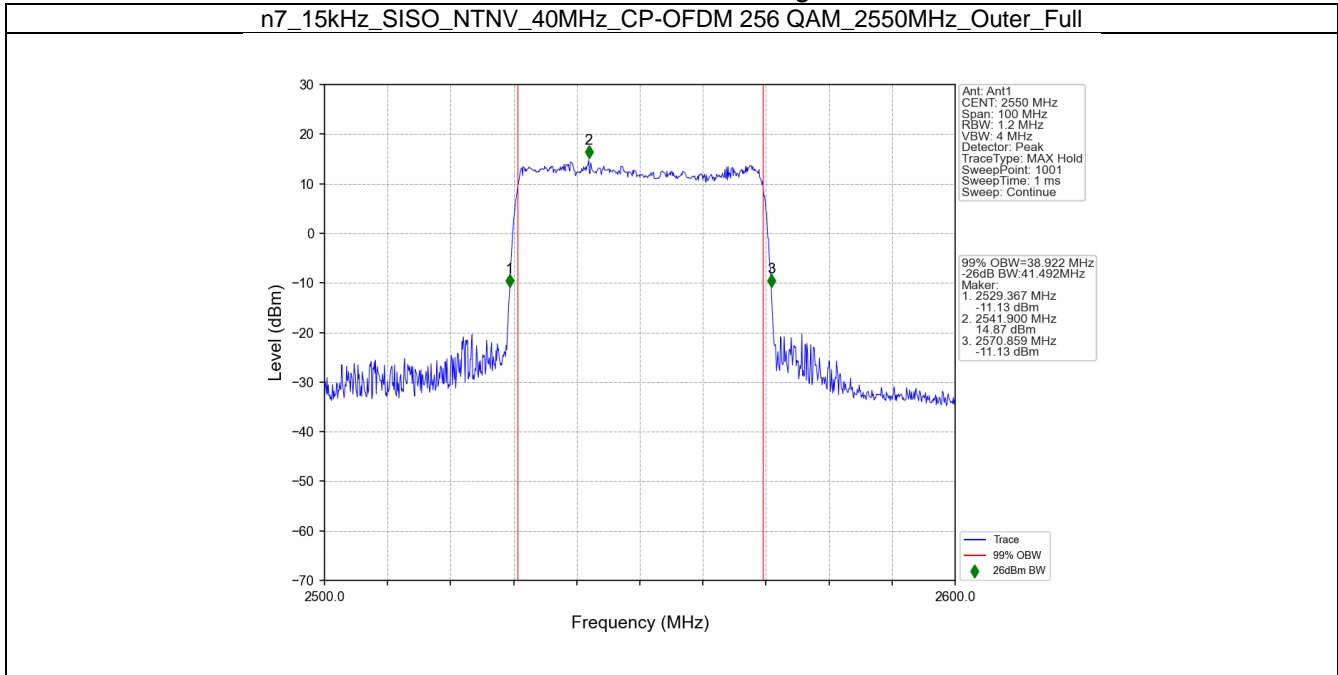


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4.8 15k_SISO_50MHz_NTNV

4.8.1 Test Result

5G NR n7 SCS=15kHz SISO 50MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2525	Outer_Full	48.71	51.92	/	Pass
	2535	Outer_Full	48.62	51.90	/	Pass
	2545	Outer_Full	48.66	51.94	/	Pass
DFT-s-OFDM QPSK	2525	Outer_Full	48.62	51.96	/	Pass
	2535	Outer_Full	48.55	51.90	/	Pass
	2545	Outer_Full	48.63	51.98	/	Pass
DFT-s-OFDM 16 QAM	2525	Outer_Full	48.59	51.84	/	Pass
	2535	Outer_Full	48.49	51.80	/	Pass
	2545	Outer_Full	48.60	51.77	/	Pass
DFT-s-OFDM 64 QAM	2525	Outer_Full	48.67	51.91	/	Pass
	2535	Outer_Full	48.49	51.85	/	Pass
	2545	Outer_Full	48.63	51.86	/	Pass
DFT-s-OFDM 256 QAM	2525	Outer_Full	48.69	51.90	/	Pass
	2535	Outer_Full	48.58	51.78	/	Pass
	2545	Outer_Full	48.65	51.81	/	Pass
CP-OFDM QPSK	2525	Outer_Full	48.78	57.77	/	Pass
	2535	Outer_Full	48.58	56.92	/	Pass
	2545	Outer_Full	48.66	55.04	/	Pass
CP-OFDM 16 QAM	2525	Outer_Full	48.86	60.88	/	Pass
	2535	Outer_Full	48.68	60.19	/	Pass
	2545	Outer_Full	48.76	59.81	/	Pass
CP-OFDM 64 QAM	2525	Outer_Full	48.58	51.92	/	Pass
	2535	Outer_Full	48.45	51.89	/	Pass
	2545	Outer_Full	48.50	51.83	/	Pass
CP-OFDM 256 QAM	2525	Outer_Full	48.53	51.92	/	Pass
	2535	Outer_Full	48.37	51.87	/	Pass
	2545	Outer_Full	48.45	51.83	/	Pass

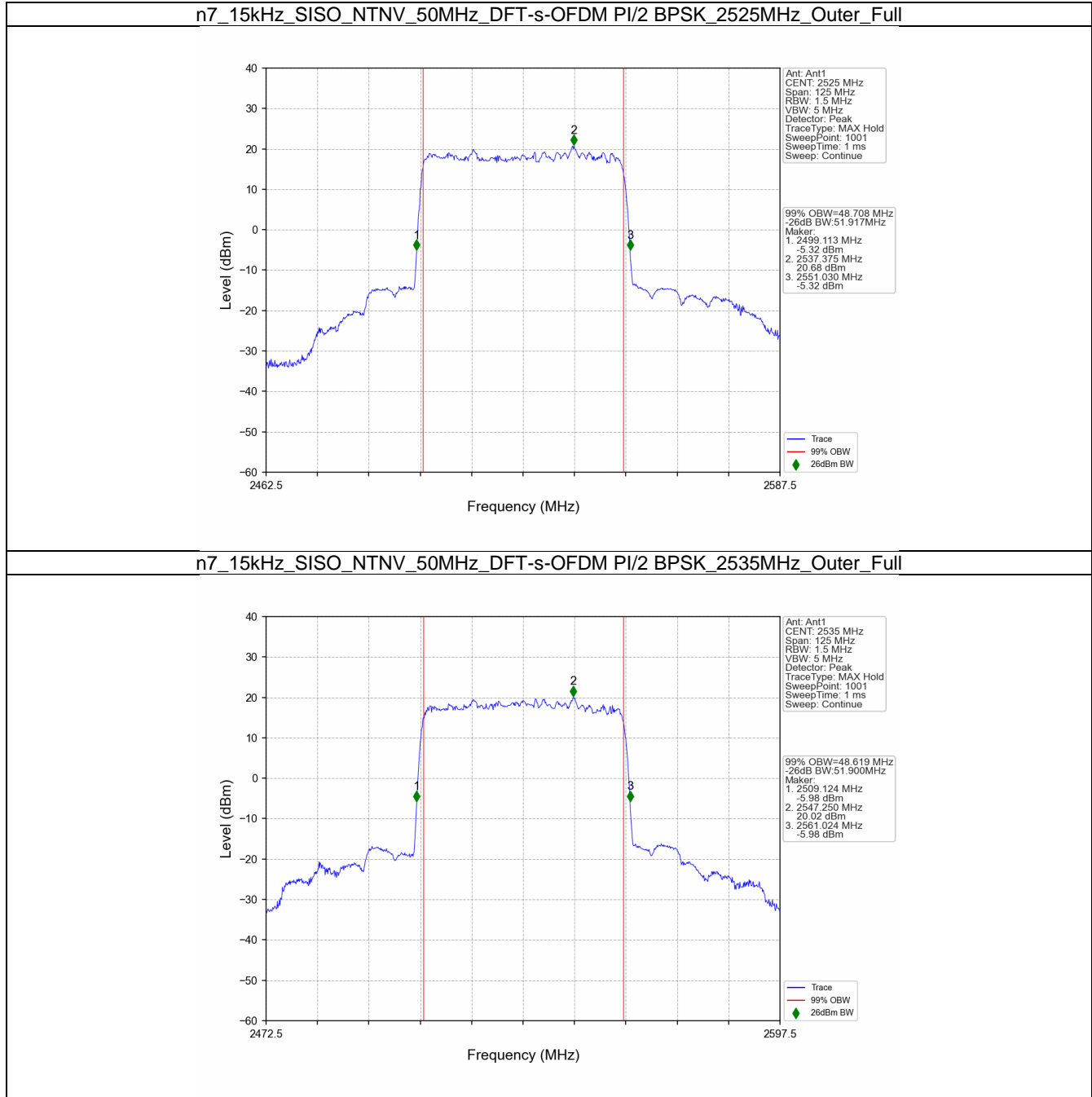


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4.8.2 Test Graph

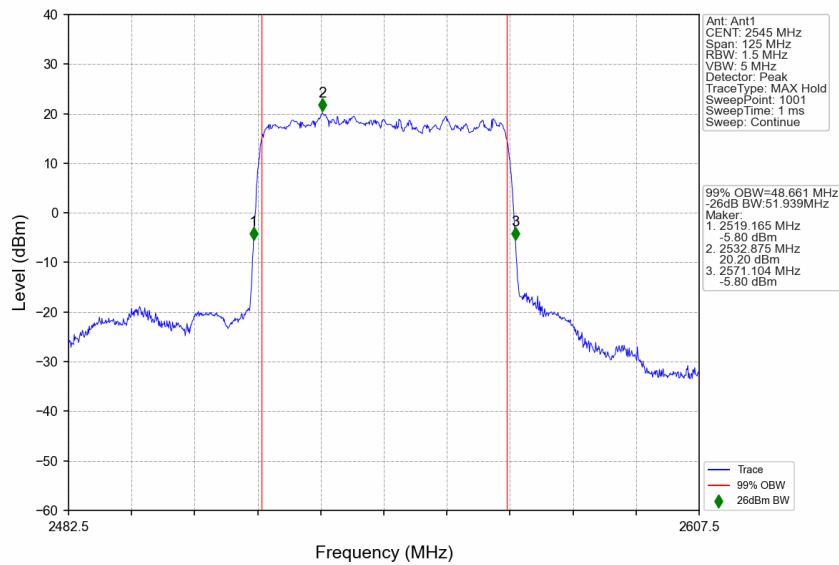


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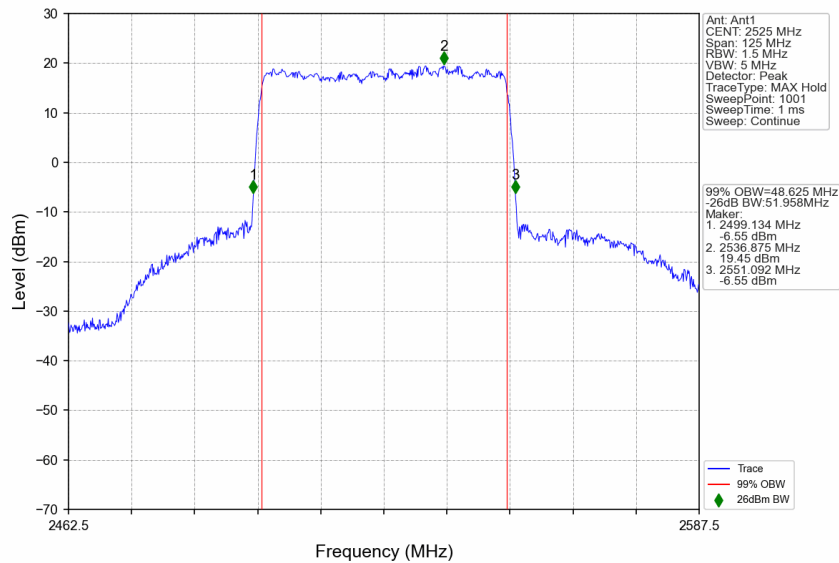
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2525MHz_Outer_Full

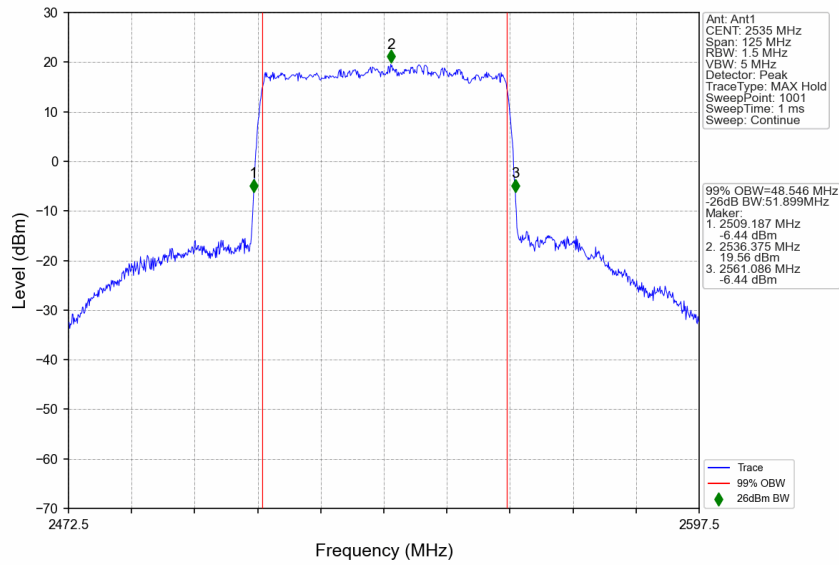


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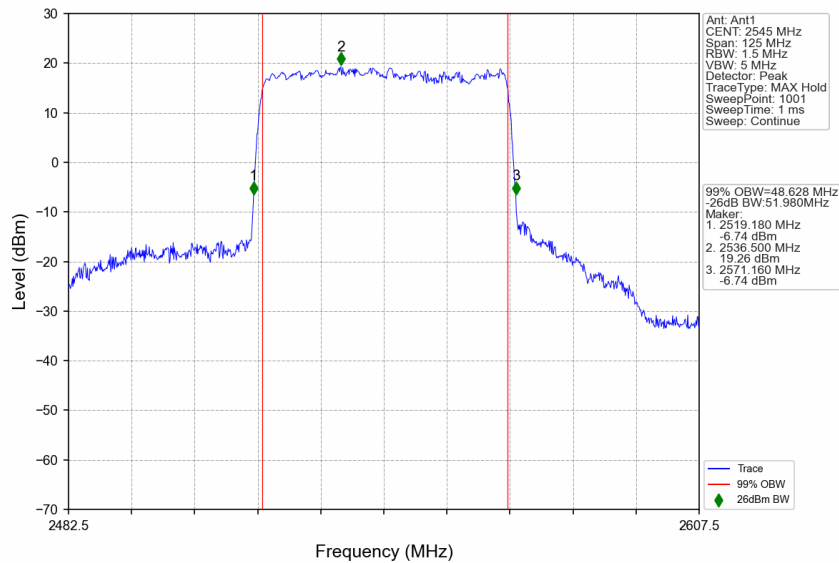
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2545MHz_Outer_Full

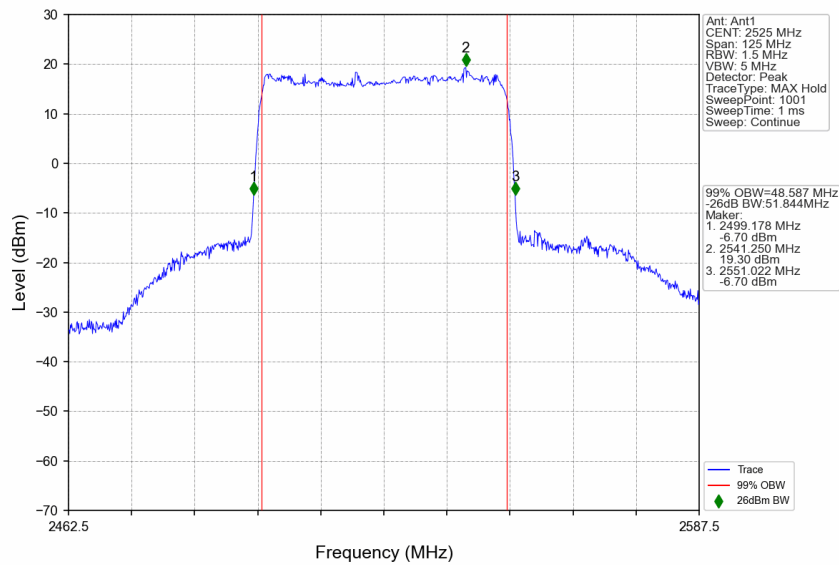


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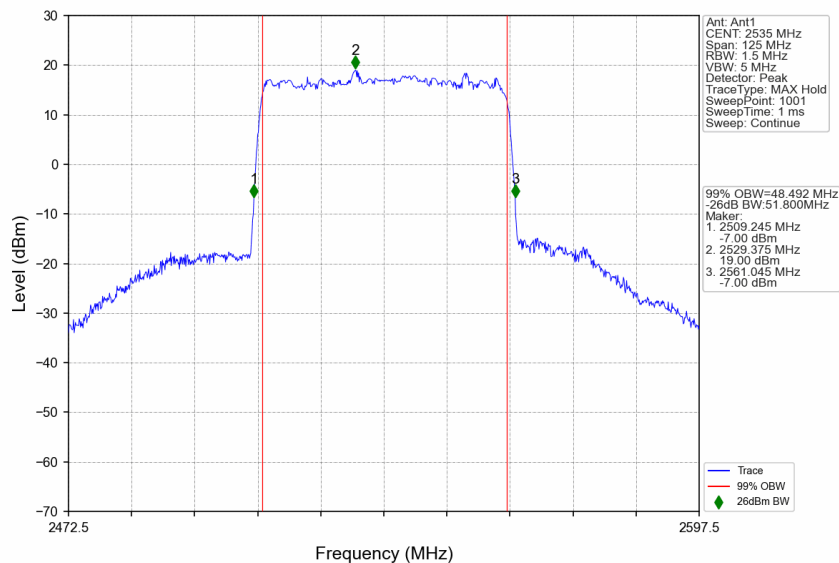
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full

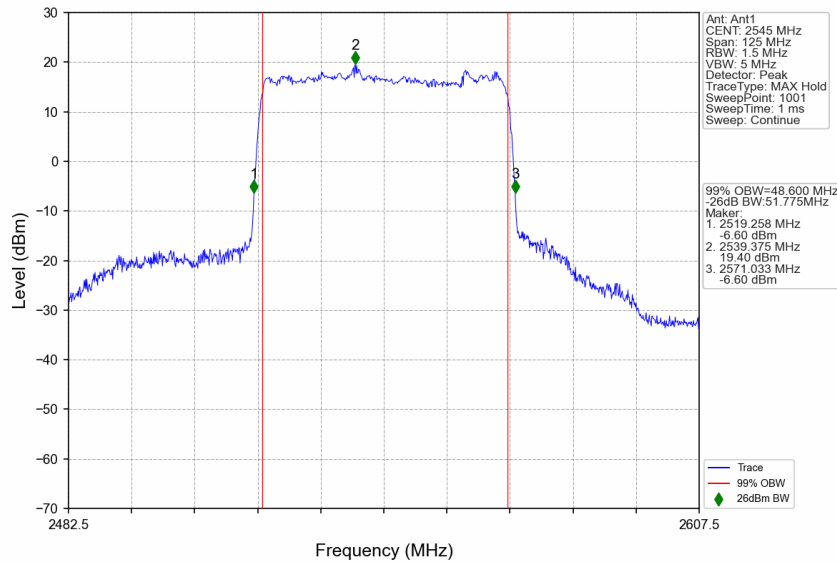


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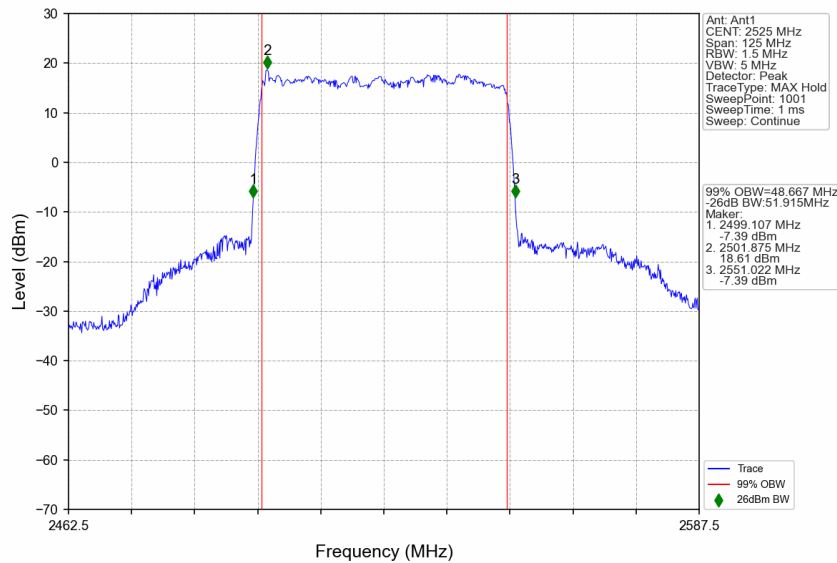
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n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2525MHz_Outer_Full



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