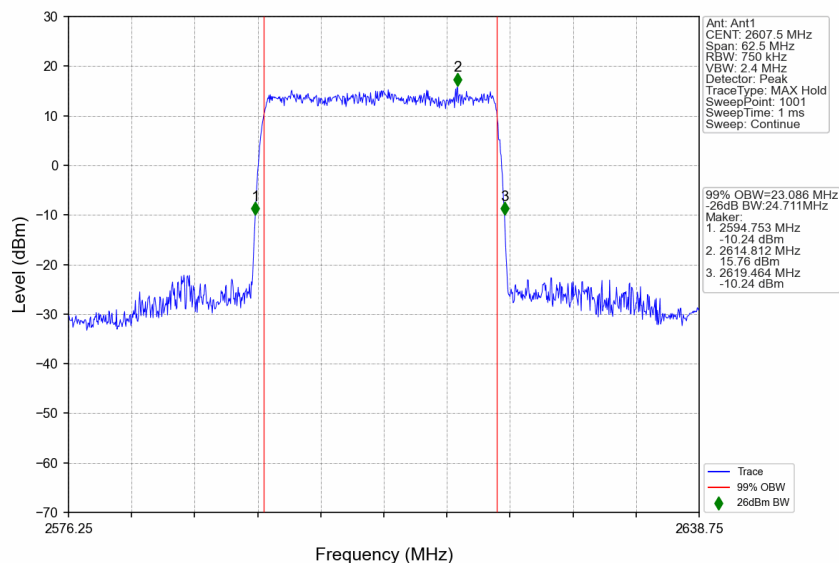


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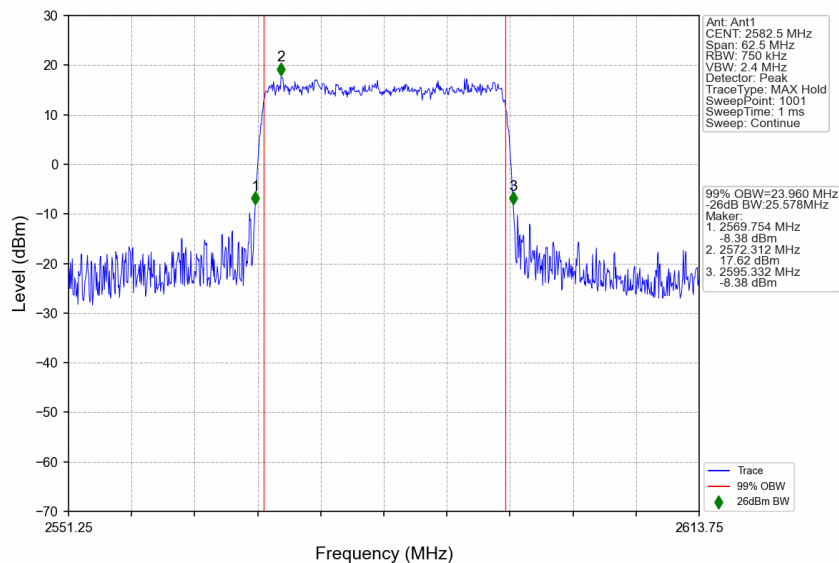
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n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_2582.5MHz_Outer_Full



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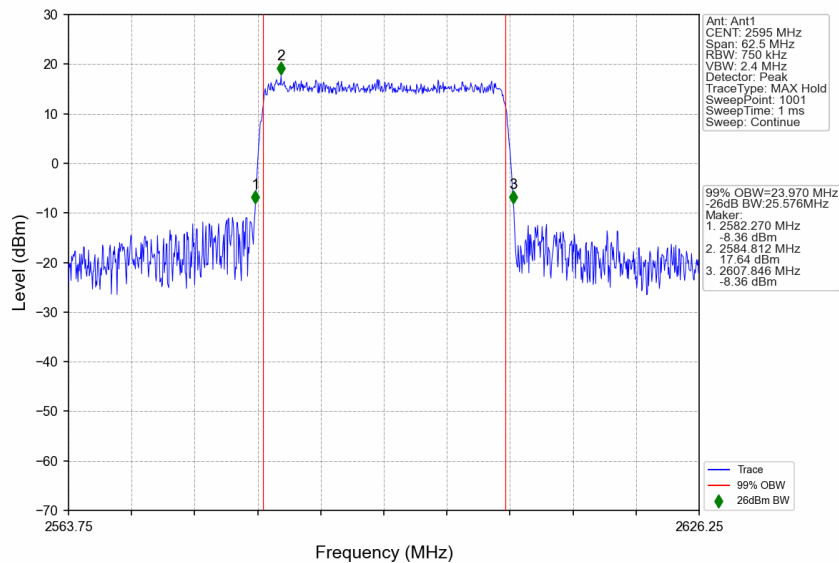
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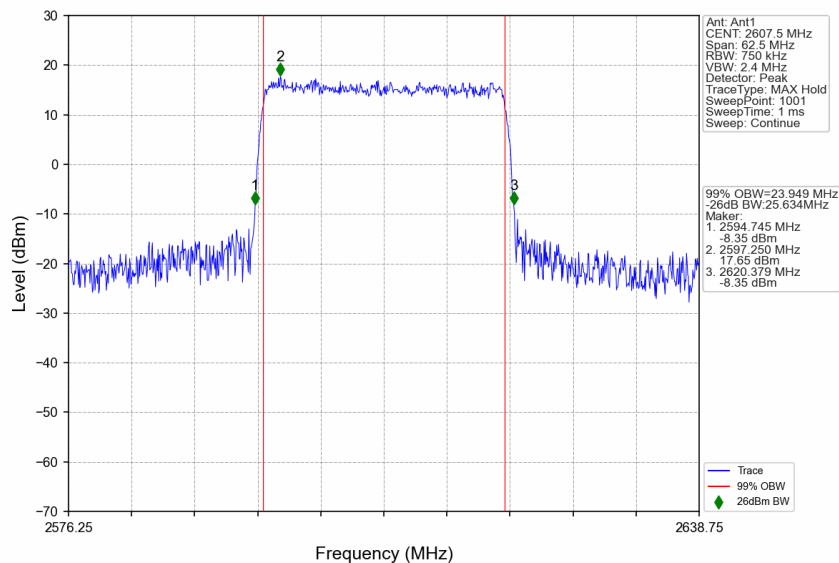
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2607.5MHz_Outer_Full



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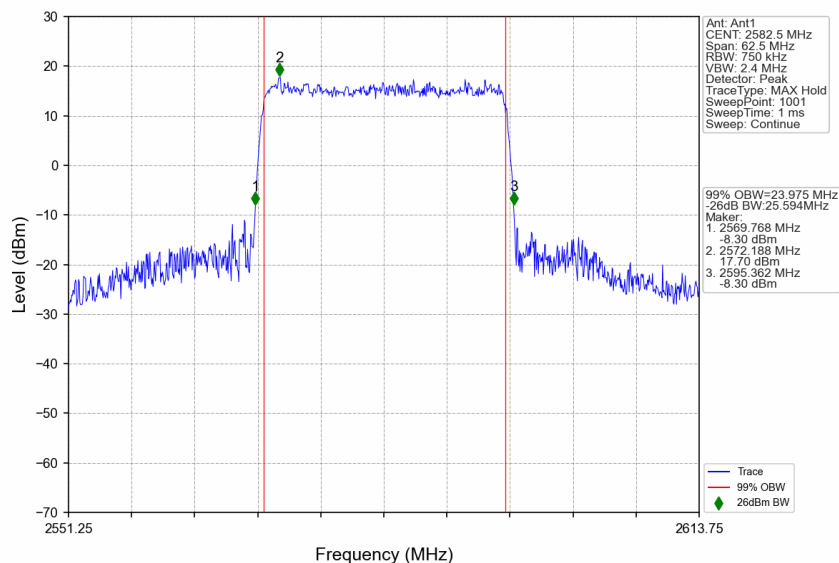
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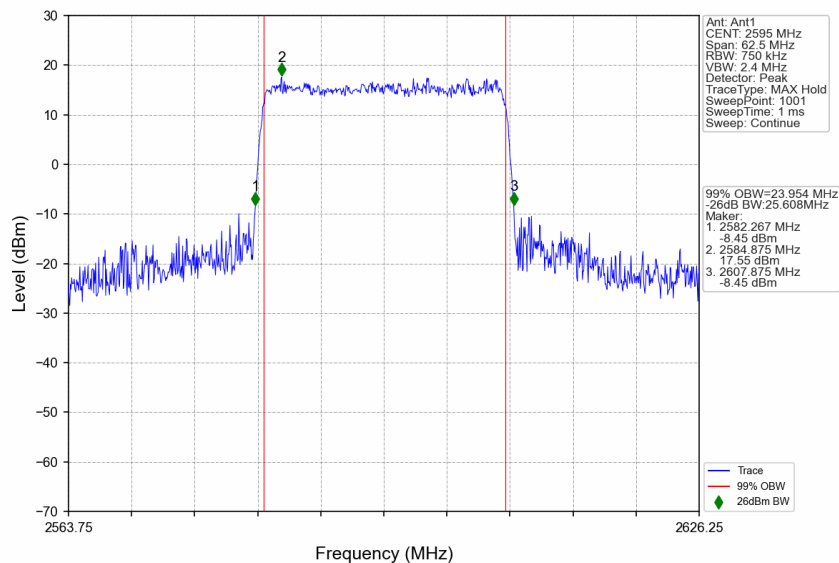
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2582.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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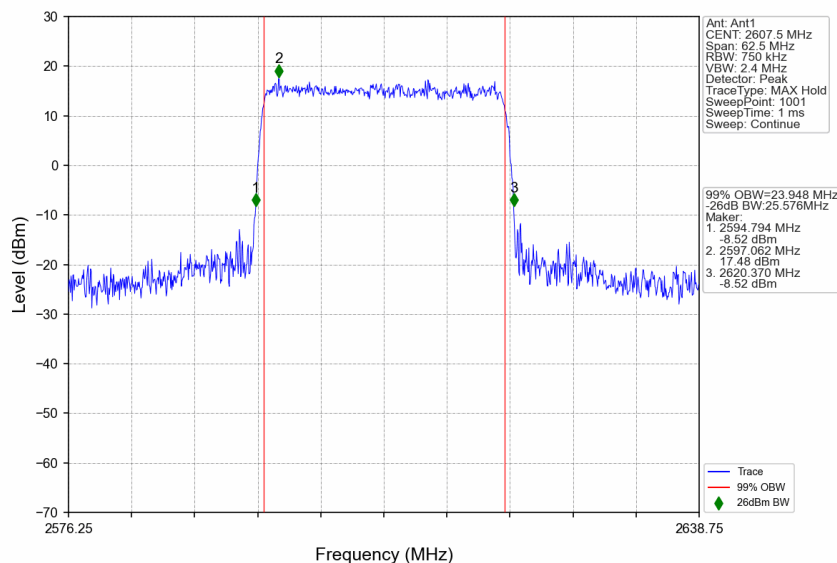
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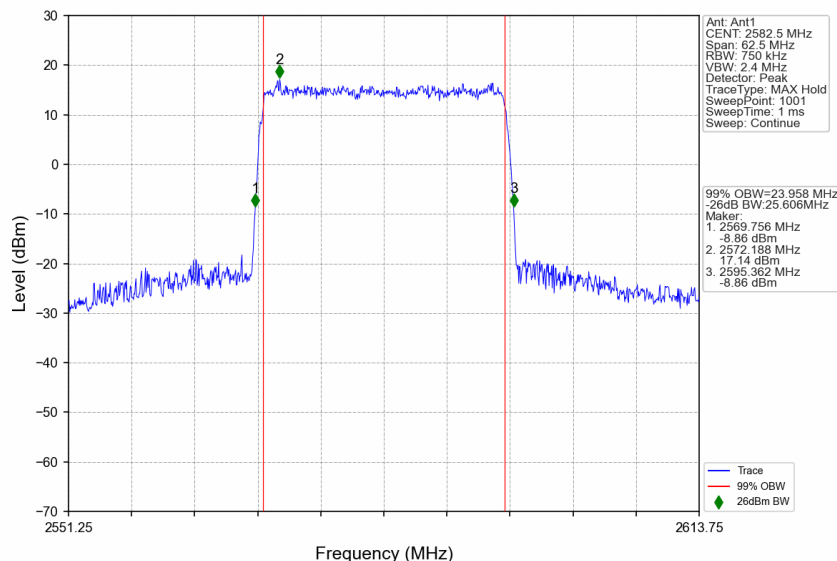
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2582.5MHz_Outer_Full



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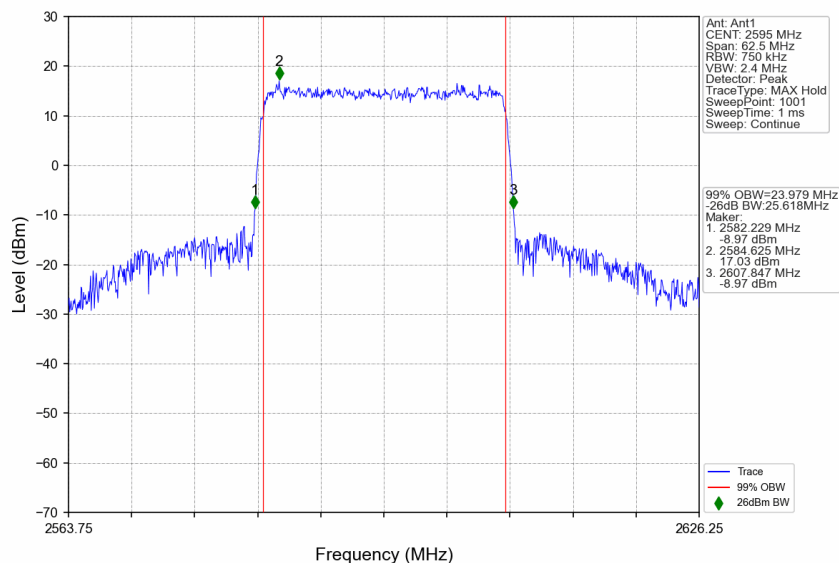
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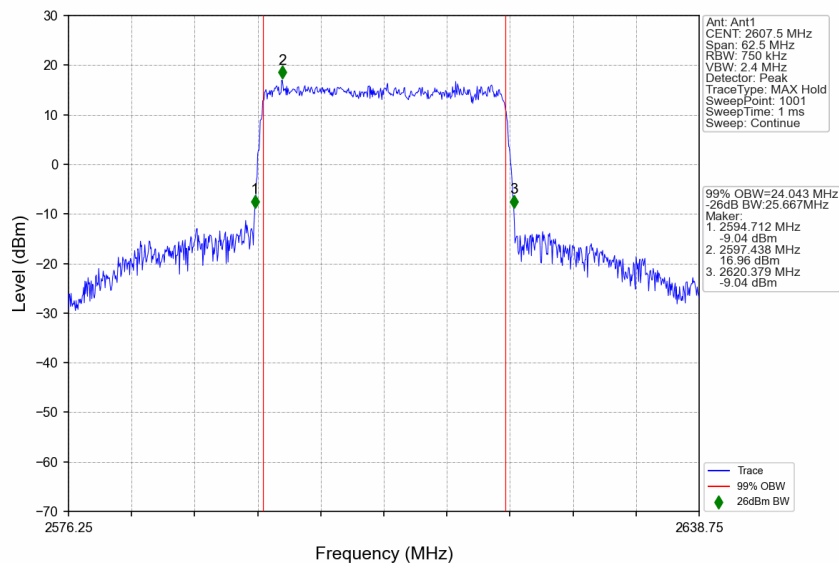
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_2607.5MHz_Outer_Full



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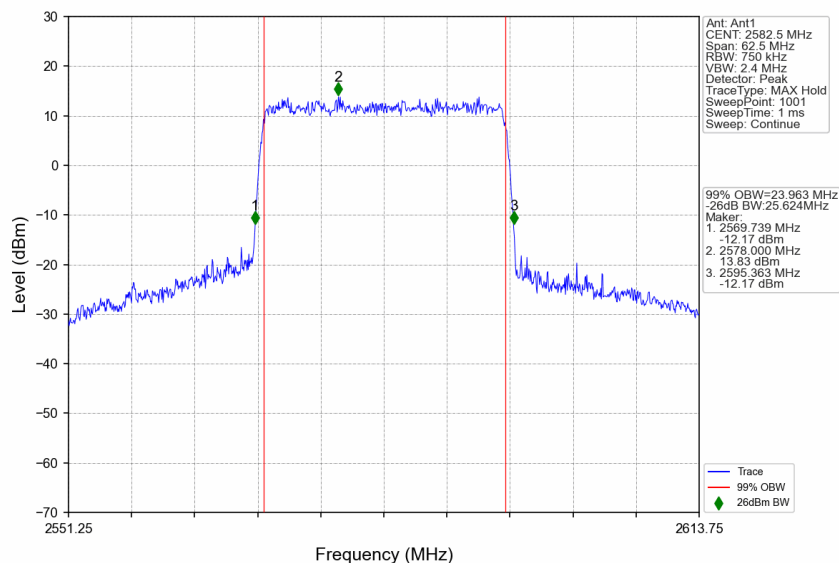
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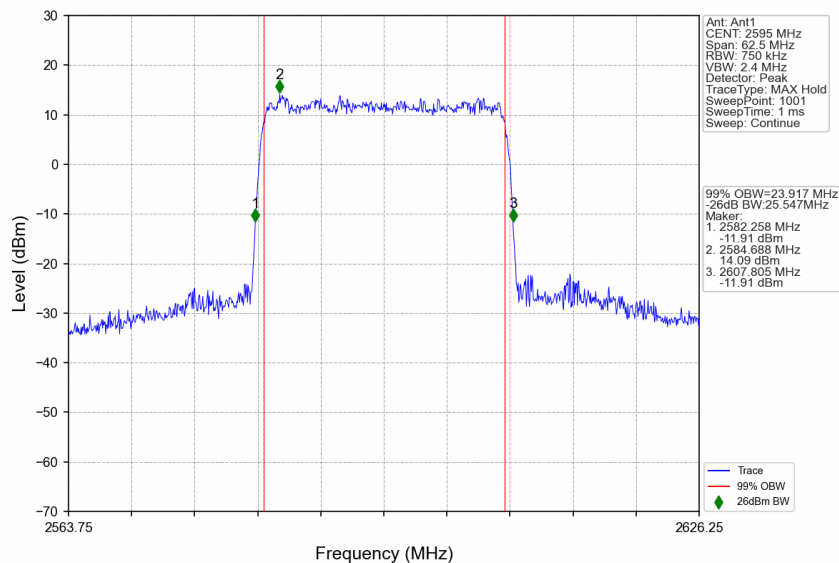
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_2582.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_2595MHz_Outer_Full



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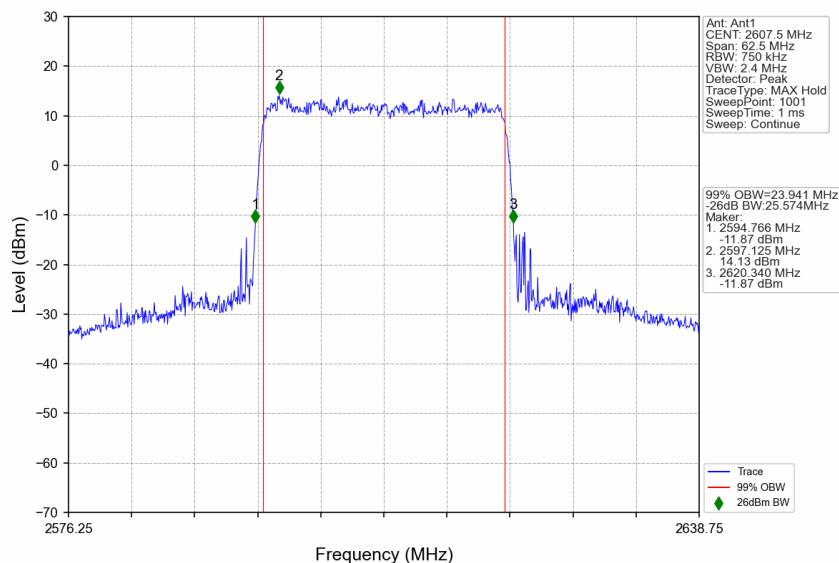
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2607.5MHz_Outer_Full



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4.6 15k_SISO_30MHz_NTNV

4.6.1 Test Result

5G NR n38 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	2585	Outer Full	28.79	30.83	/	Pass
	2595	Outer Full	28.85	30.88	/	Pass
	2605	Outer Full	28.82	30.83	/	Pass
DFT-s-OFDM QPSK	2585	Outer Full	28.81	30.77	/	Pass
	2595	Outer Full	28.79	30.78	/	Pass
	2605	Outer Full	28.82	30.79	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer Full	28.76	30.80	/	Pass
	2595	Outer Full	28.84	30.81	/	Pass
	2605	Outer Full	28.79	30.82	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer Full	28.84	30.82	/	Pass
	2595	Outer Full	28.74	30.81	/	Pass
	2605	Outer Full	28.87	30.85	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer Full	28.74	30.74	/	Pass
	2595	Outer Full	28.77	30.76	/	Pass
	2605	Outer Full	28.80	30.75	/	Pass
CP-OFDM QPSK	2585	Outer Full	28.92	30.87	/	Pass
	2595	Outer Full	28.85	30.89	/	Pass
	2605	Outer Full	28.82	30.90	/	Pass
CP-OFDM 16 QAM	2585	Outer Full	28.77	30.71	/	Pass
	2595	Outer Full	28.75	30.76	/	Pass
	2605	Outer Full	28.74	30.79	/	Pass
CP-OFDM 64 QAM	2585	Outer Full	28.80	30.82	/	Pass
	2595	Outer Full	28.77	30.77	/	Pass
	2605	Outer Full	28.77	30.75	/	Pass
CP-OFDM 256 QAM	2585	Outer Full	28.79	30.82	/	Pass
	2595	Outer Full	28.77	30.77	/	Pass
	2605	Outer Full	28.82	30.81	/	Pass



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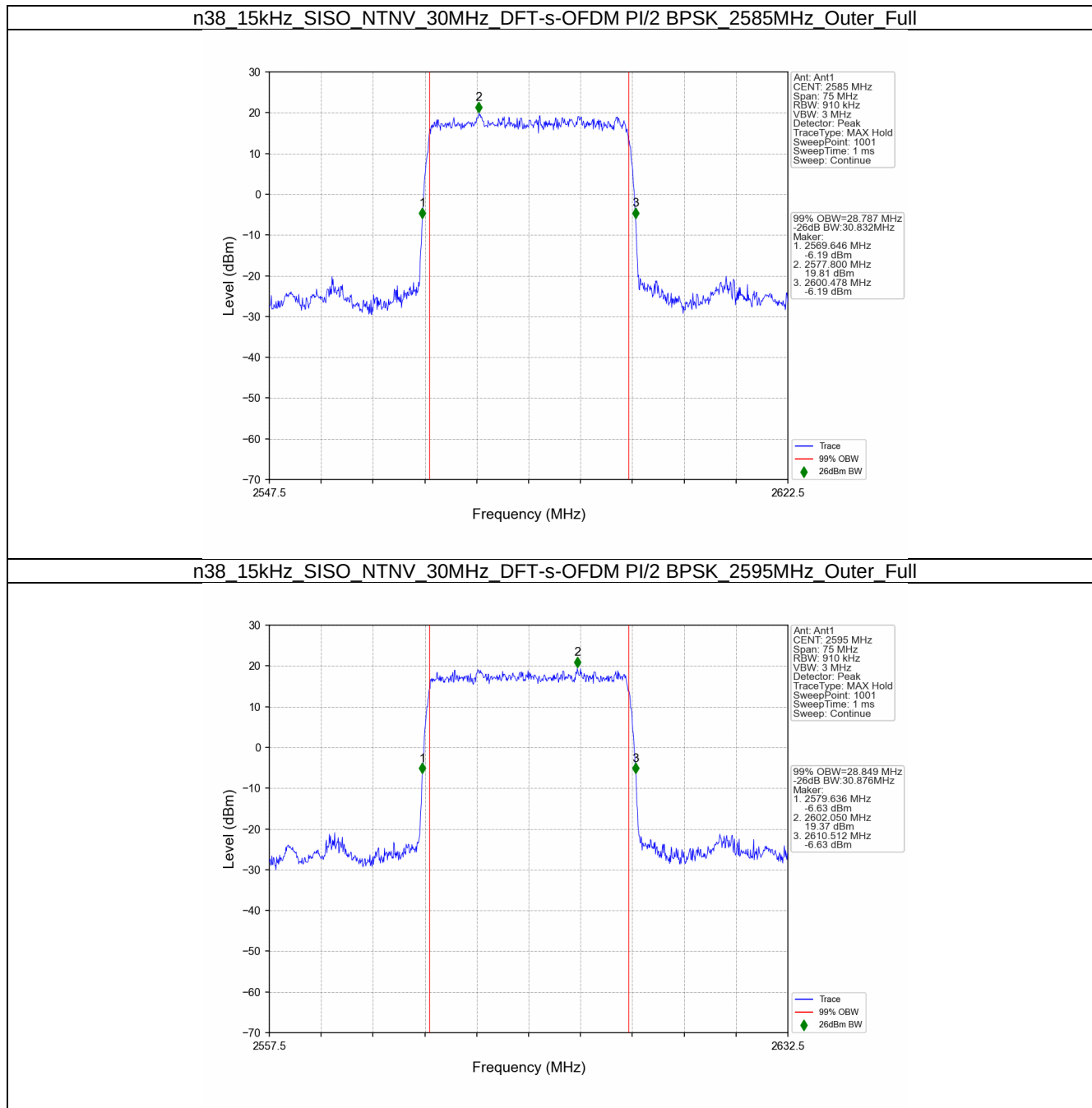
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4.6.2 Test Graph



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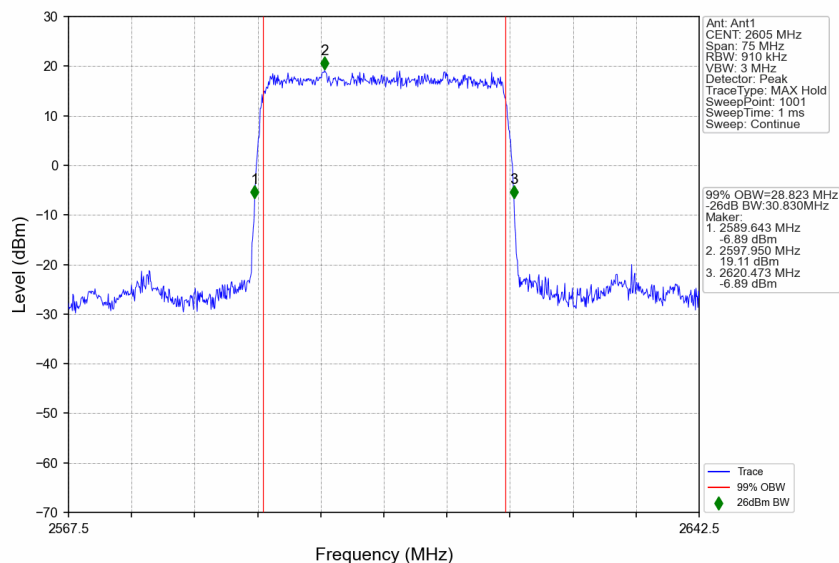
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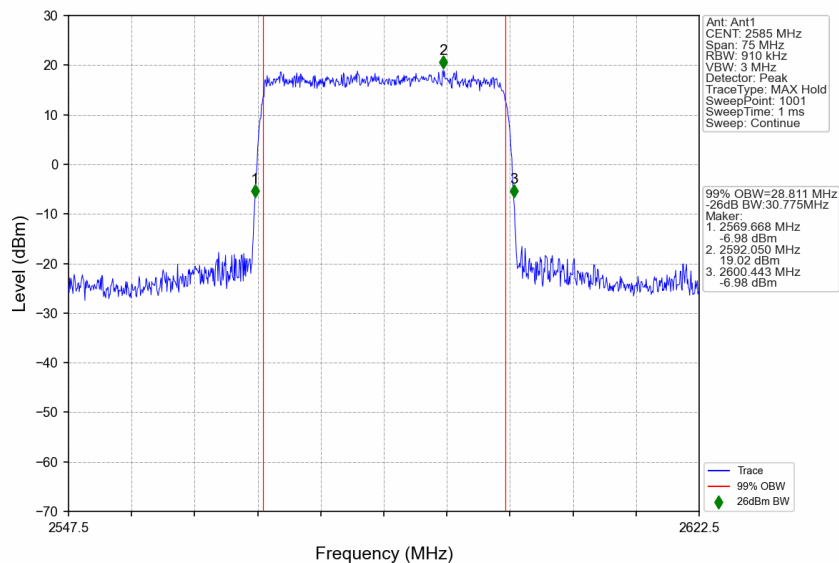
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2585MHz_Outer_Full



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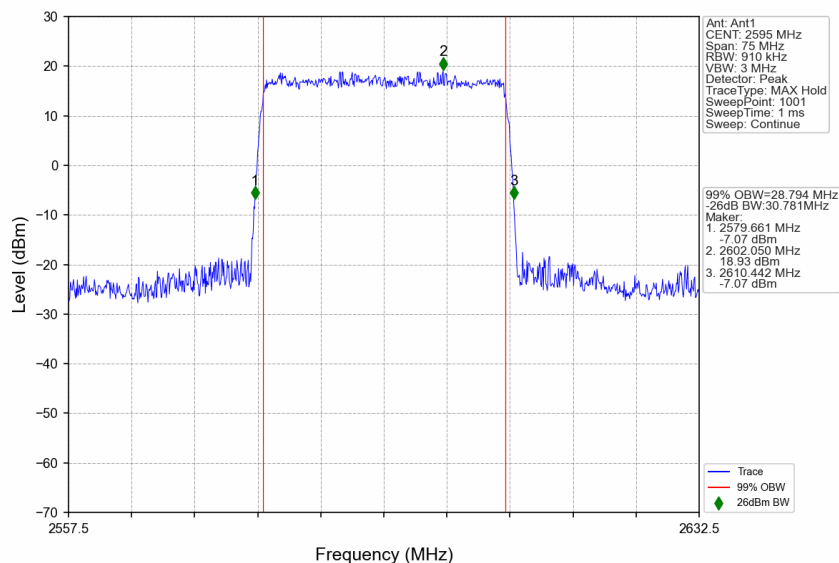
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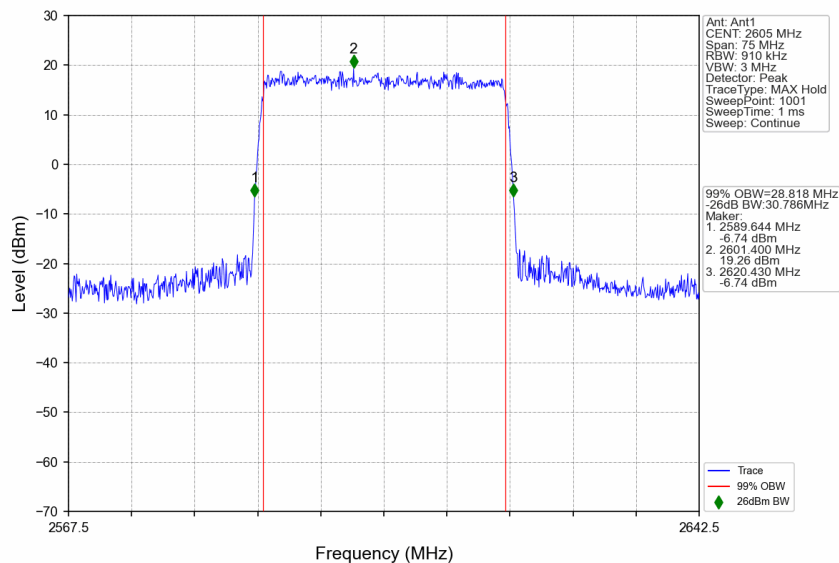
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Outer_Full



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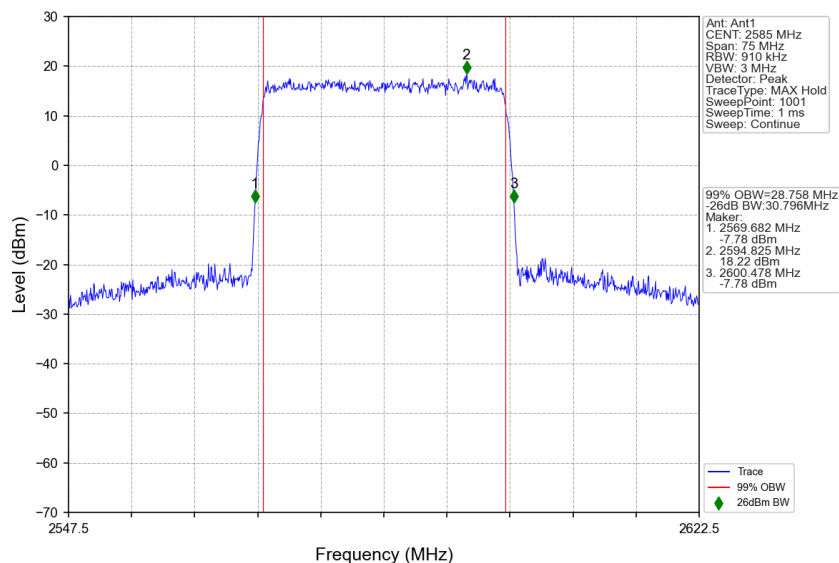
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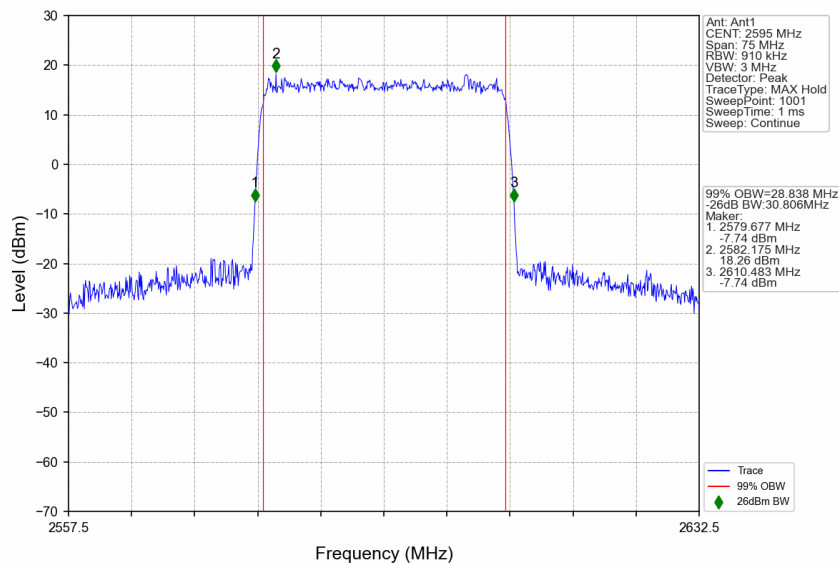
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2585MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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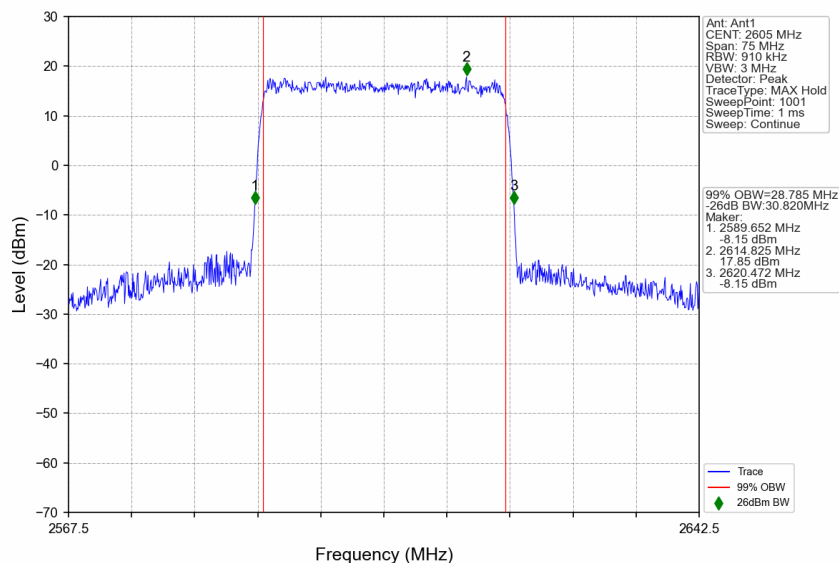
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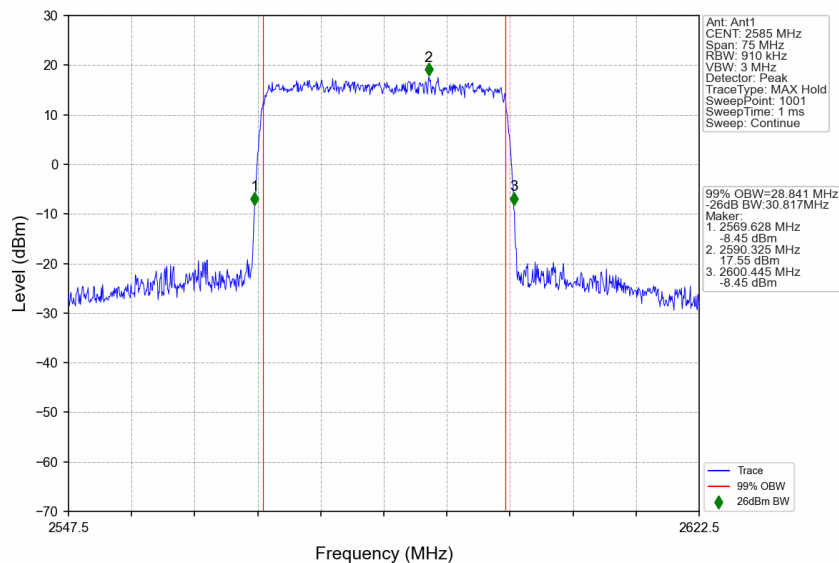
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2585MHz_Outer_Full



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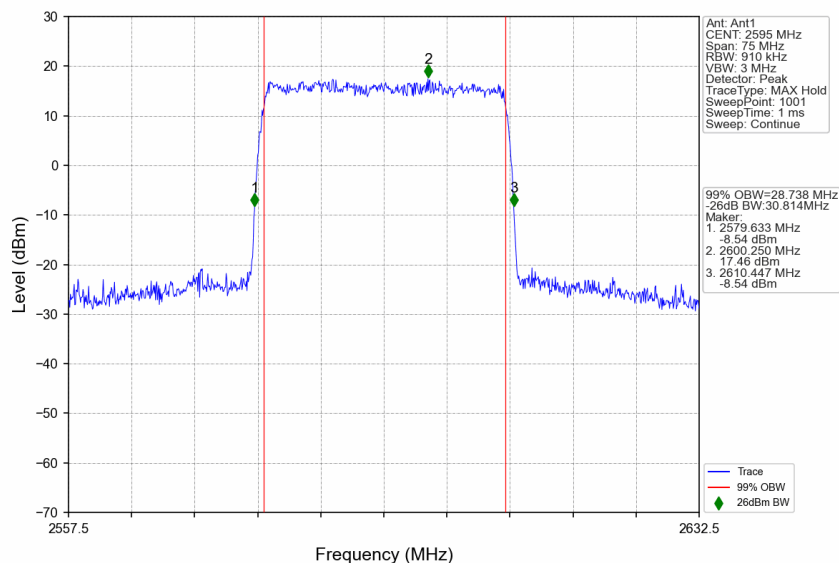
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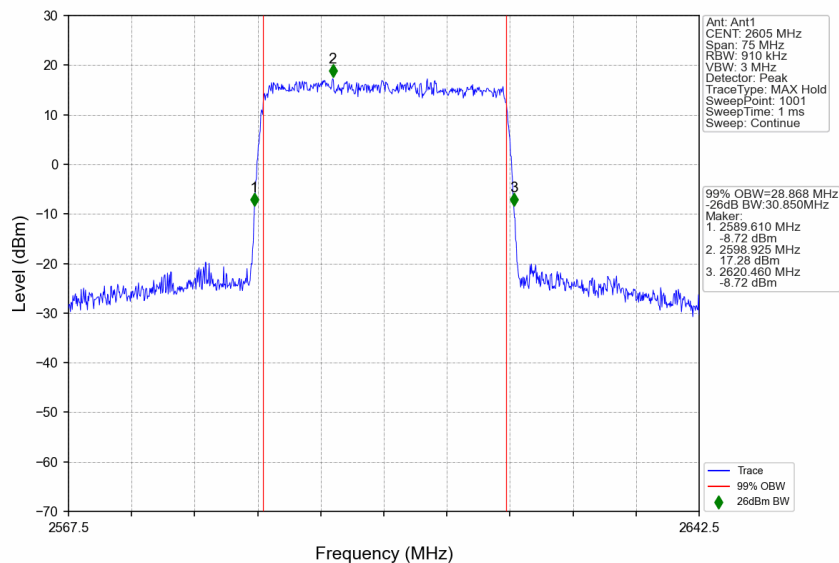
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2605MHz_Outer_Full



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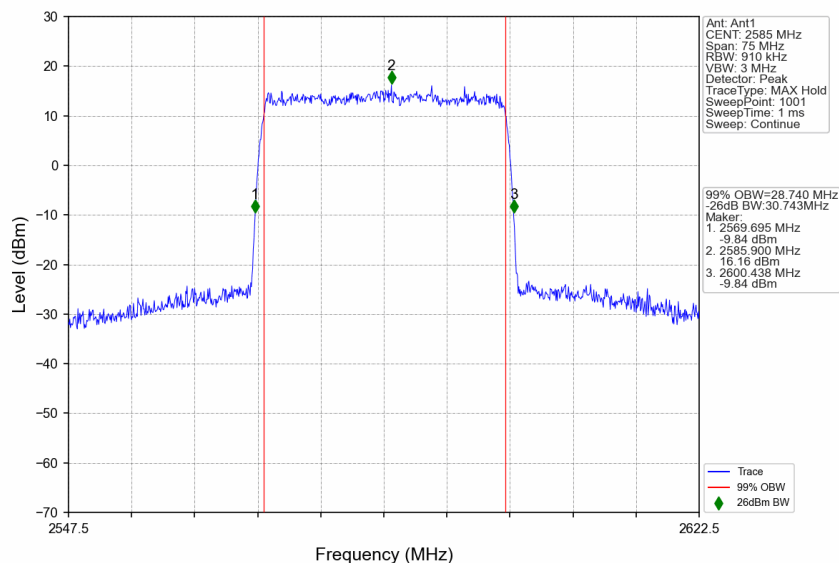
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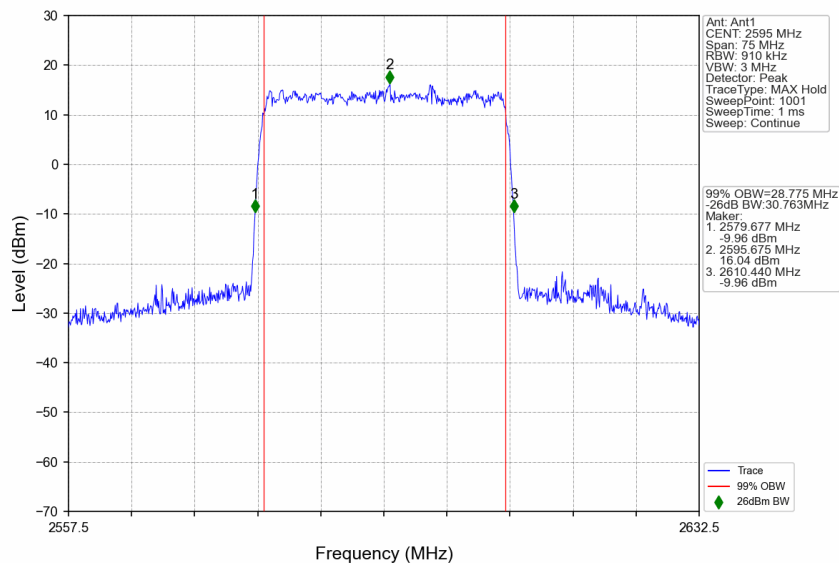
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2585MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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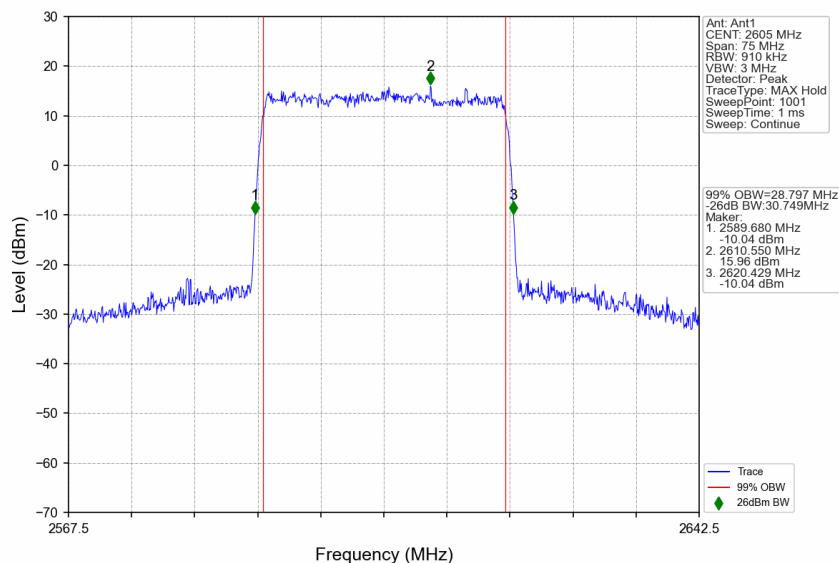
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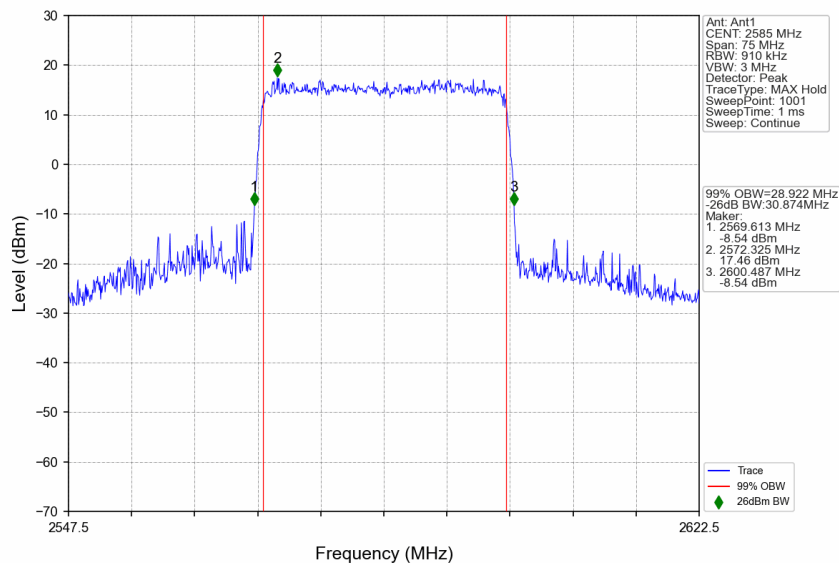
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256 QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Outer_Full



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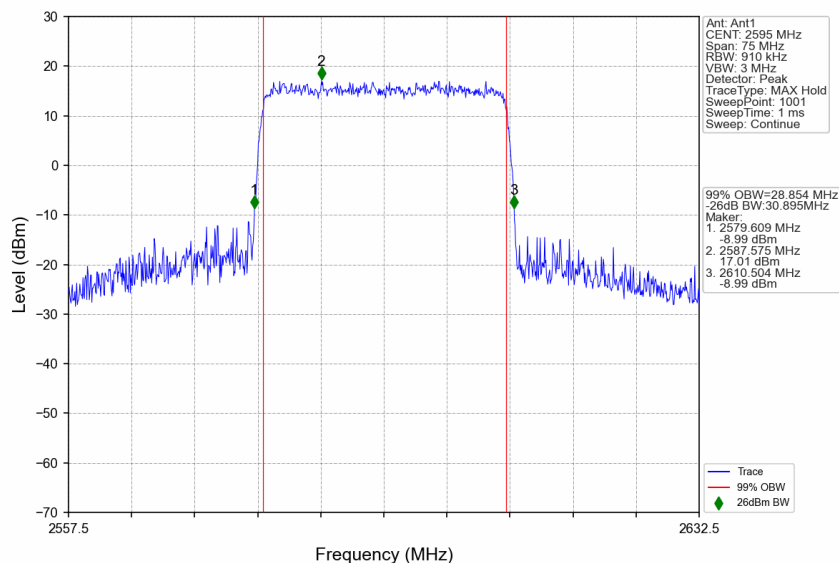
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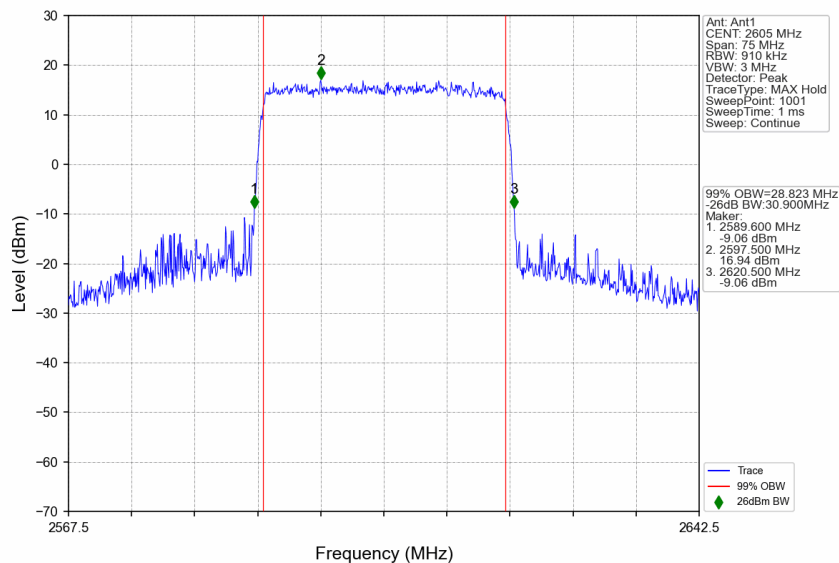
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full



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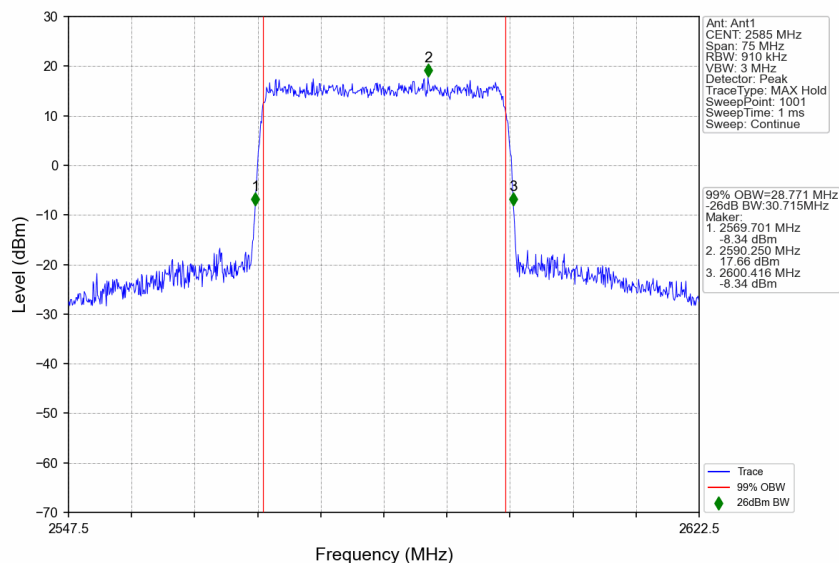
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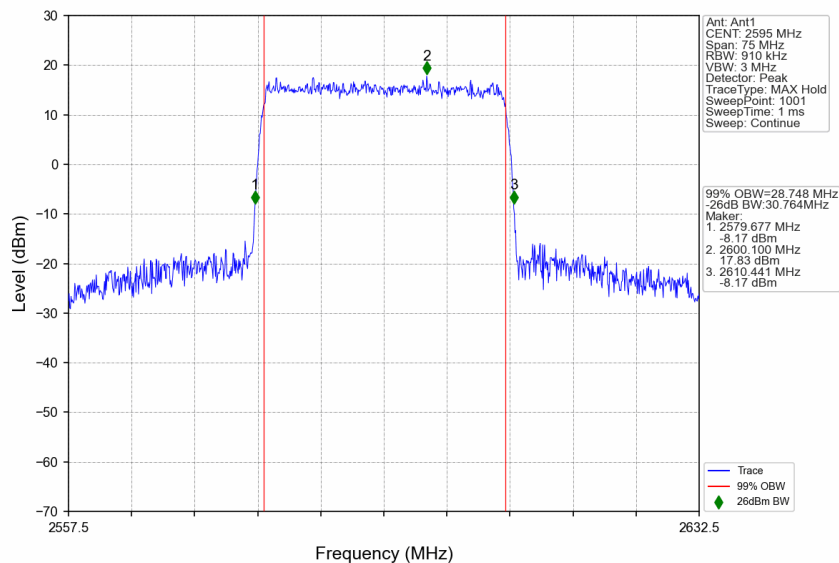
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2585MHz_Outer_Full



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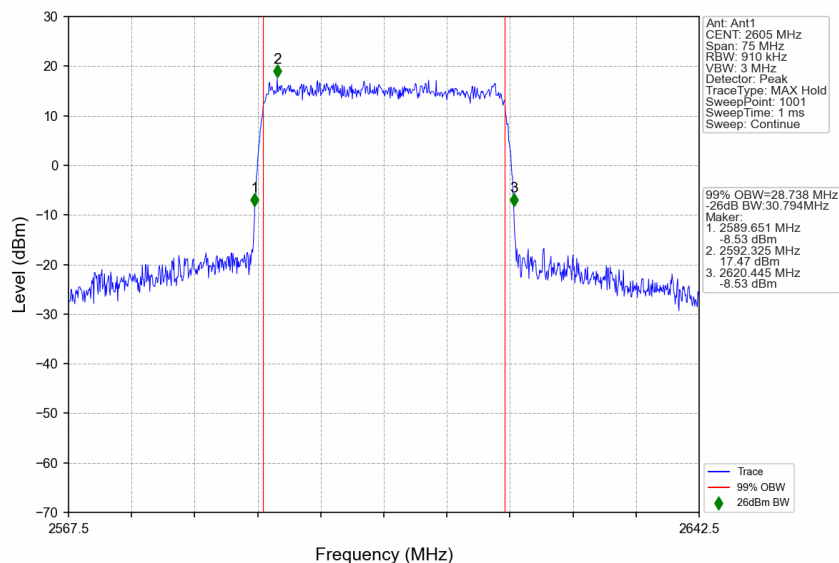
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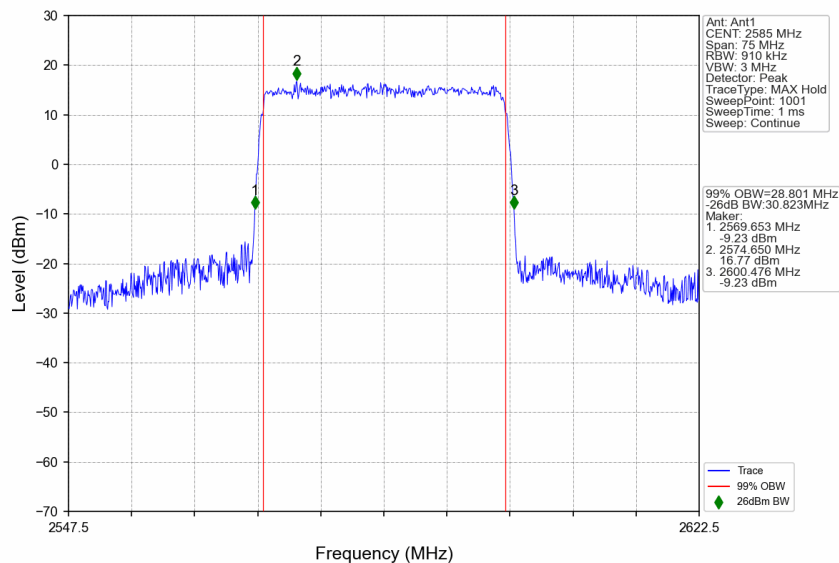
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full



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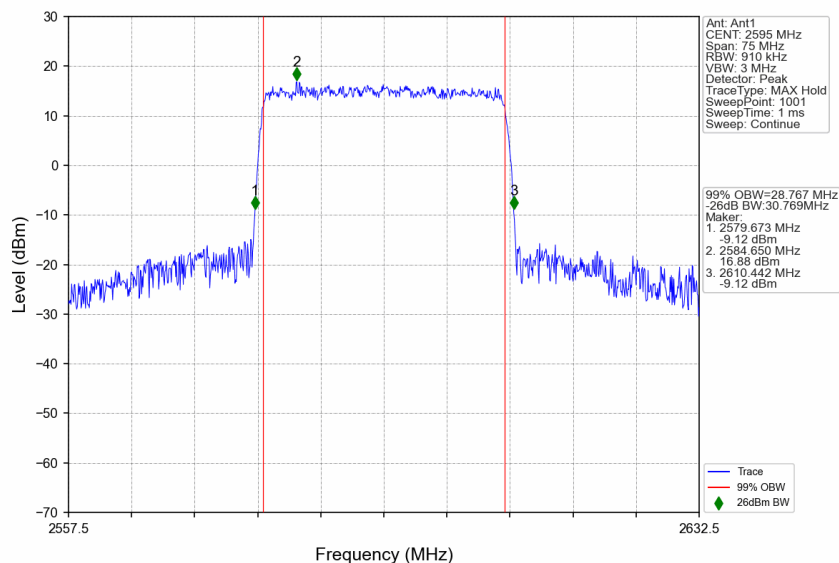
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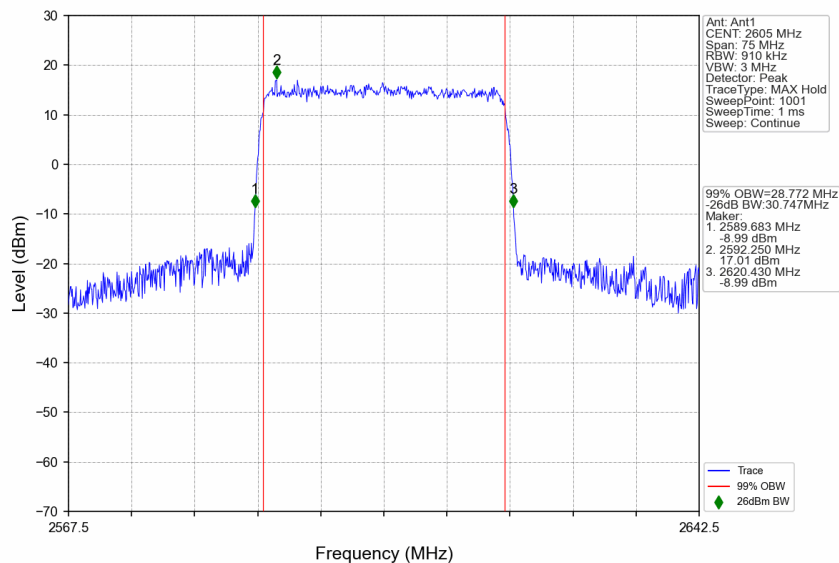
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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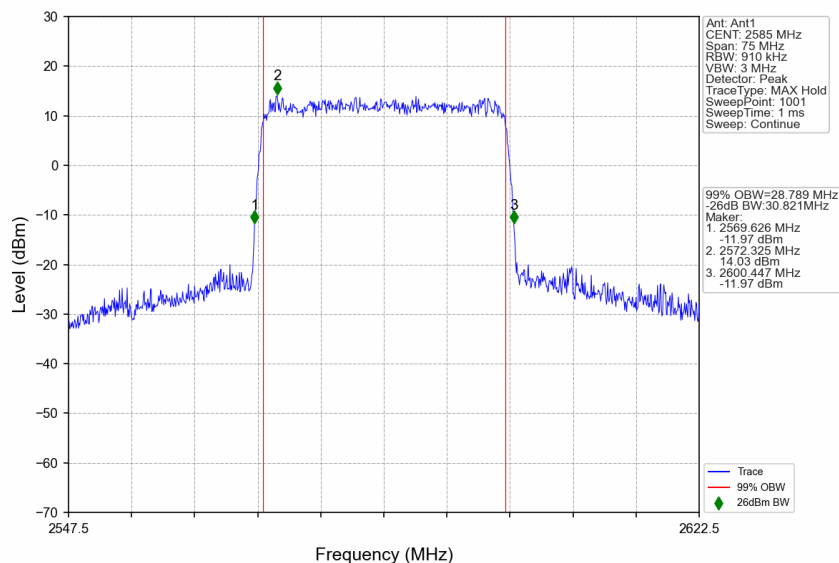
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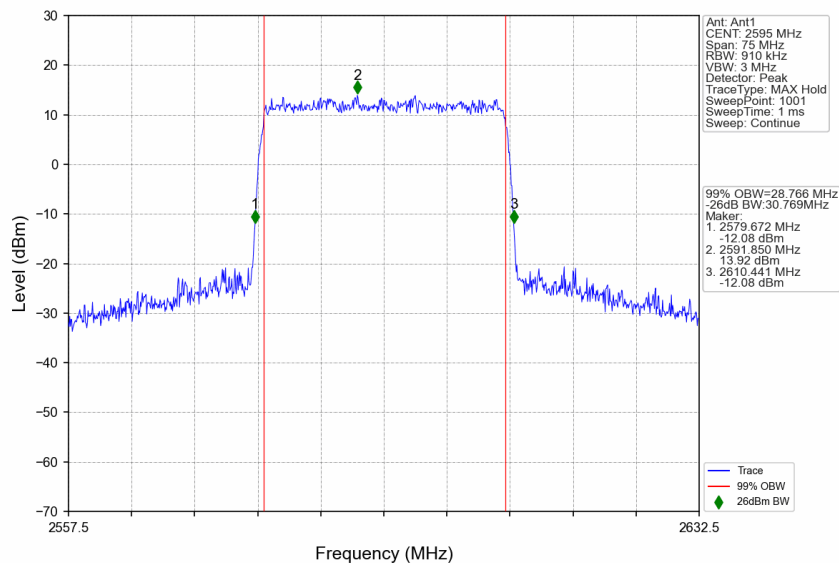
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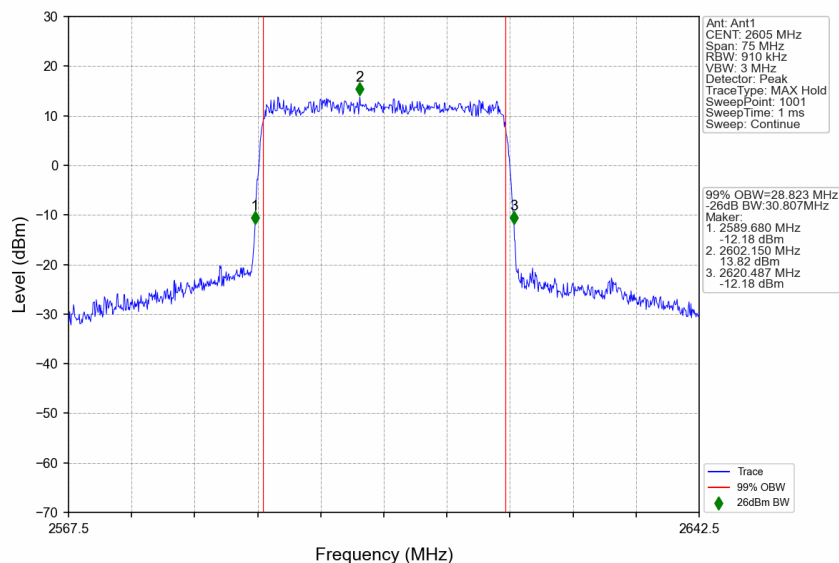
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2605MHz_Outer_Full



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4.7 15k_SISO_40MHz_NTNV

4.7.1 Test Result

5G NR n38 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2590	Outer Full	38.89	41.44	/	Pass
	2595	Outer Full	38.84	41.43	/	Pass
	2600	Outer Full	38.86	41.45	/	Pass
DFT-s-OFDM QPSK	2590	Outer Full	38.88	41.52	/	Pass
	2595	Outer Full	38.92	41.59	/	Pass
	2600	Outer Full	38.84	41.52	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer Full	38.85	41.51	/	Pass
	2595	Outer Full	38.78	41.53	/	Pass
	2600	Outer Full	38.84	41.52	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer Full	38.85	41.58	/	Pass
	2595	Outer Full	38.94	41.56	/	Pass
	2600	Outer Full	38.89	41.51	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer Full	38.82	41.46	/	Pass
	2595	Outer Full	38.89	41.40	/	Pass
	2600	Outer Full	38.83	41.46	/	Pass
CP-OFDM QPSK	2590	Outer Full	38.94	41.51	/	Pass
	2595	Outer Full	38.88	41.50	/	Pass
	2600	Outer Full	38.88	41.48	/	Pass
CP-OFDM 16 QAM	2590	Outer Full	38.91	41.42	/	Pass
	2595	Outer Full	38.85	41.47	/	Pass
	2600	Outer Full	38.80	41.43	/	Pass
CP-OFDM 64 QAM	2590	Outer Full	38.87	41.39	/	Pass
	2595	Outer Full	38.85	41.46	/	Pass
	2600	Outer Full	38.86	41.47	/	Pass
CP-OFDM 256 QAM	2590	Outer Full	38.85	41.56	/	Pass
	2595	Outer Full	38.91	41.52	/	Pass
	2600	Outer Full	38.87	41.52	/	Pass



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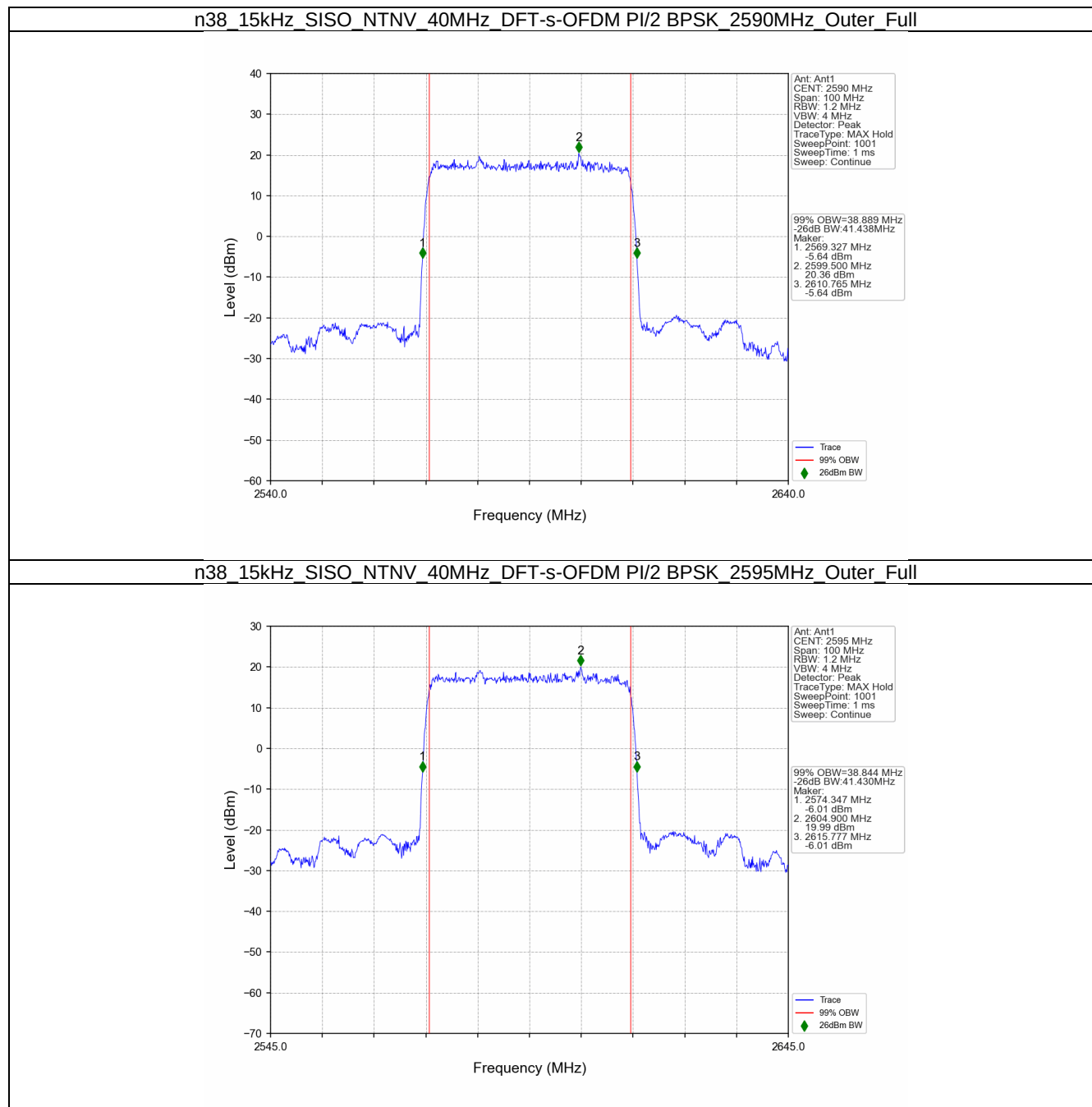
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4.7.2 Test Graph



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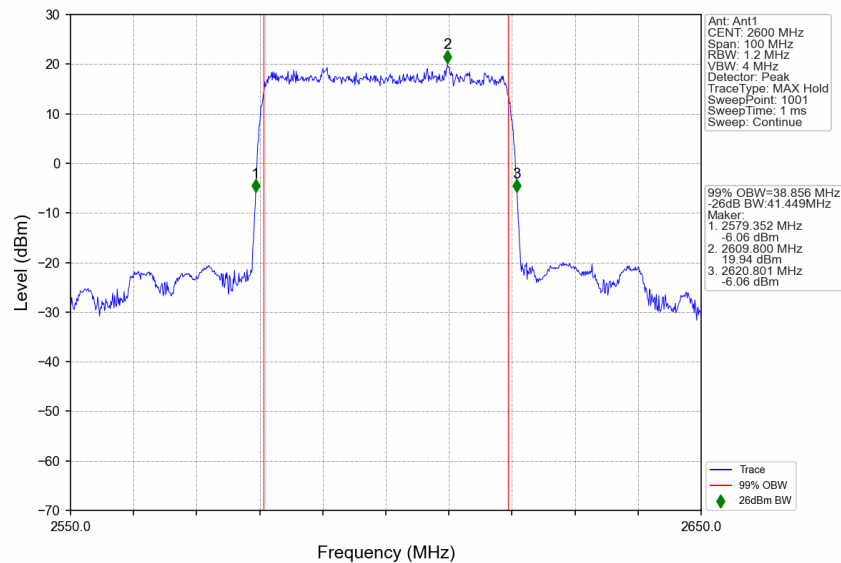
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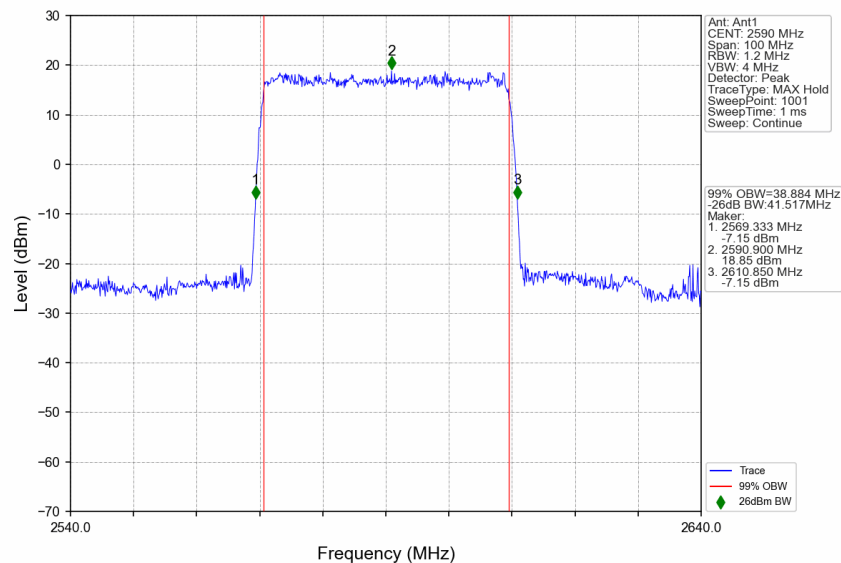
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2590MHz_Outer_Full



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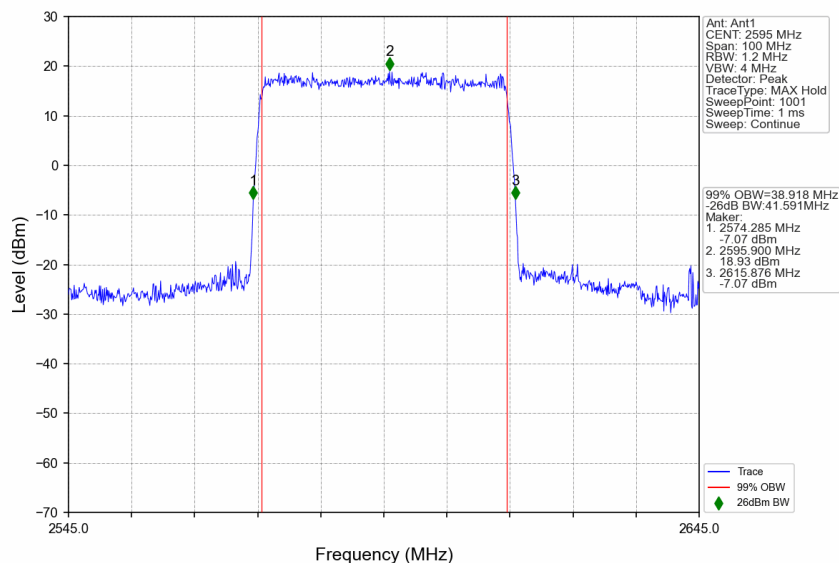
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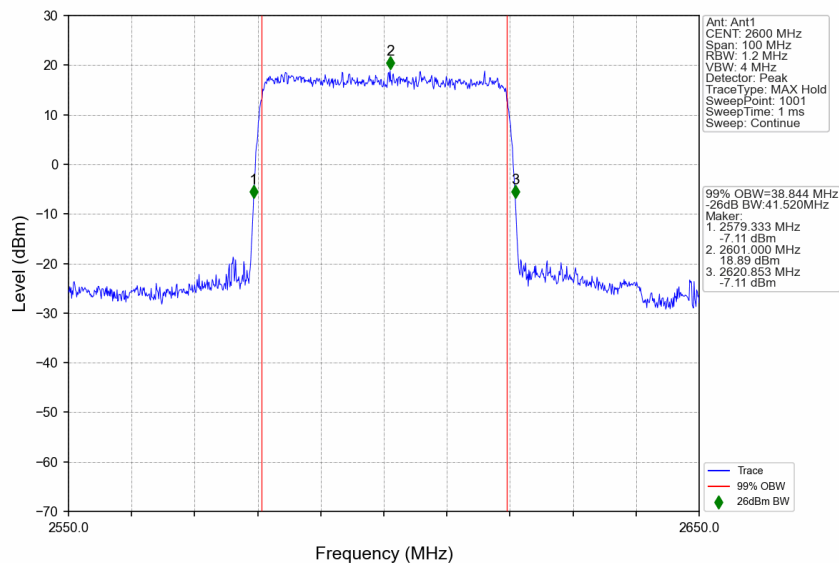
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full



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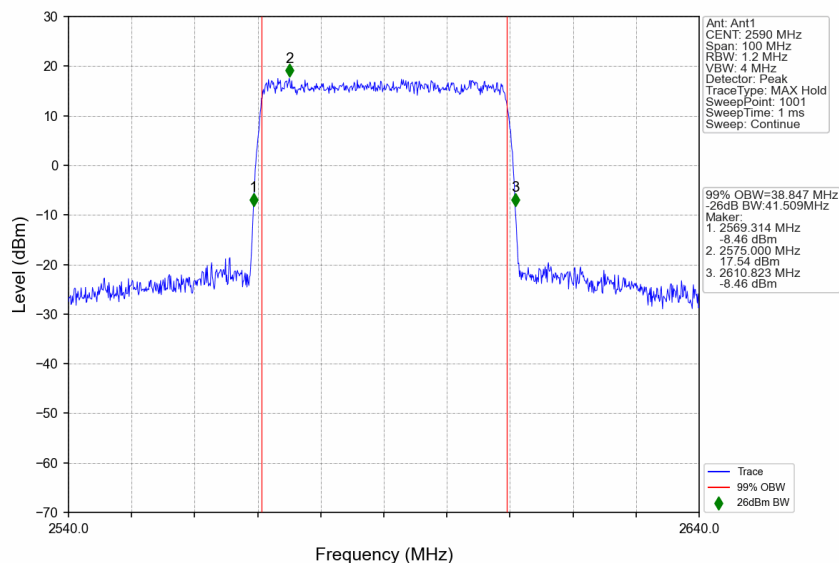
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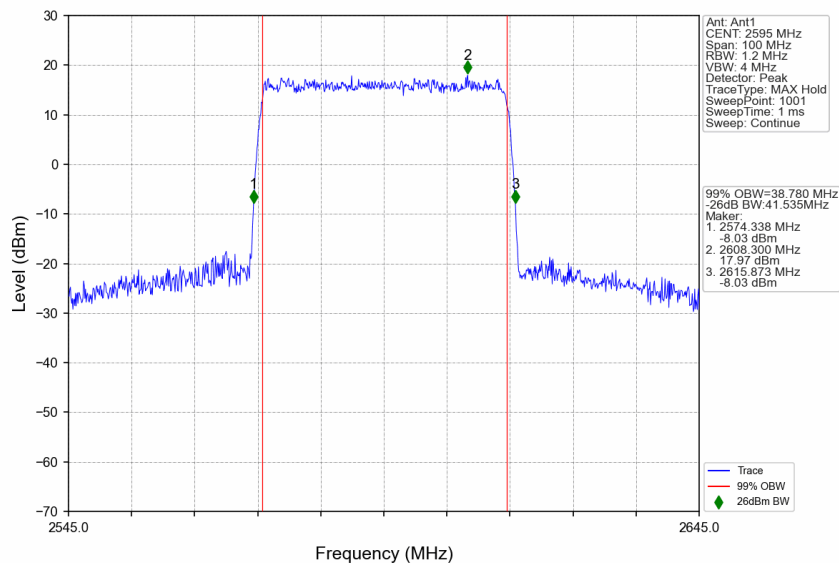
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2590MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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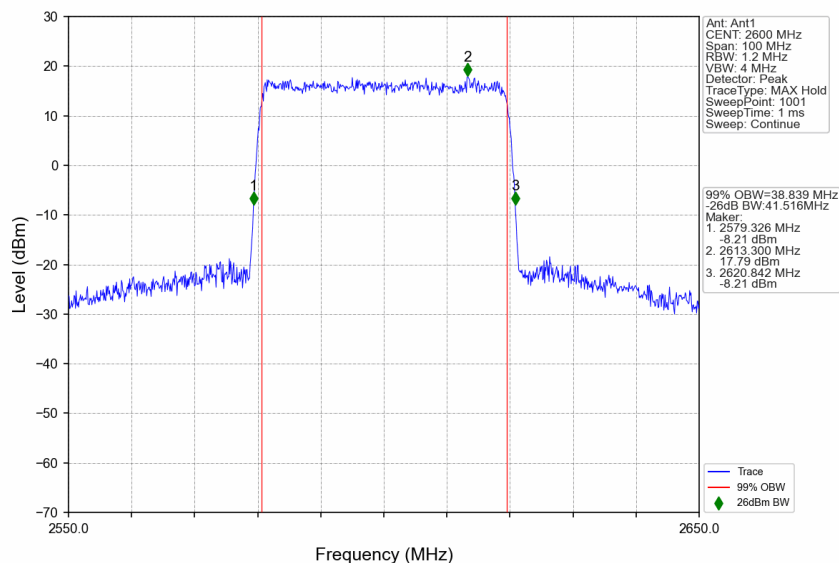
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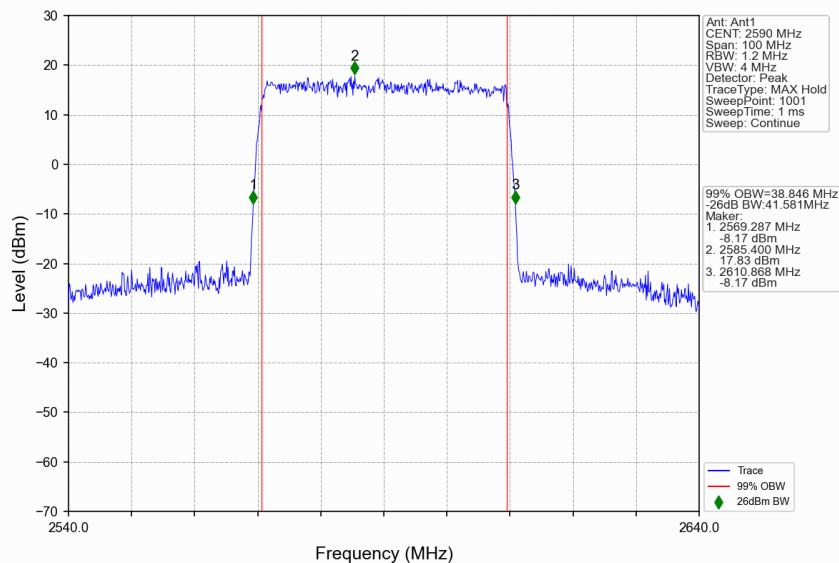
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_2590MHz_Outer_Full



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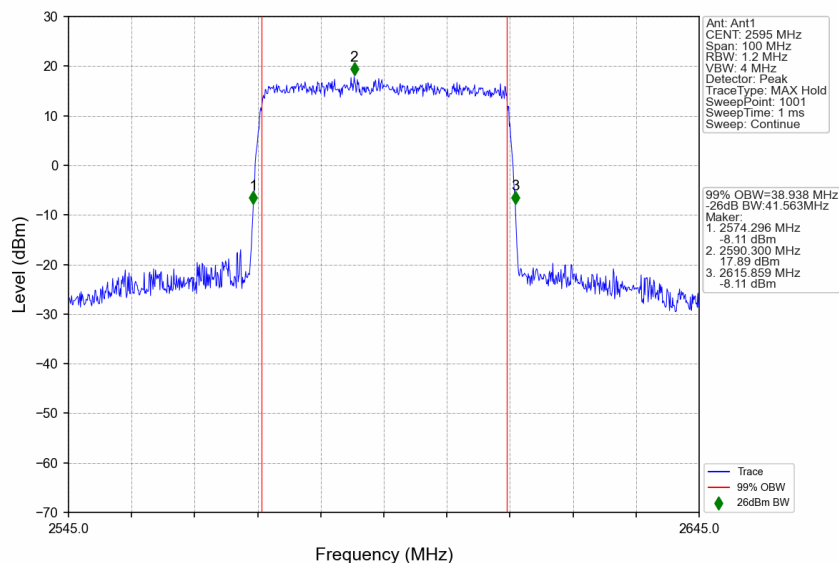
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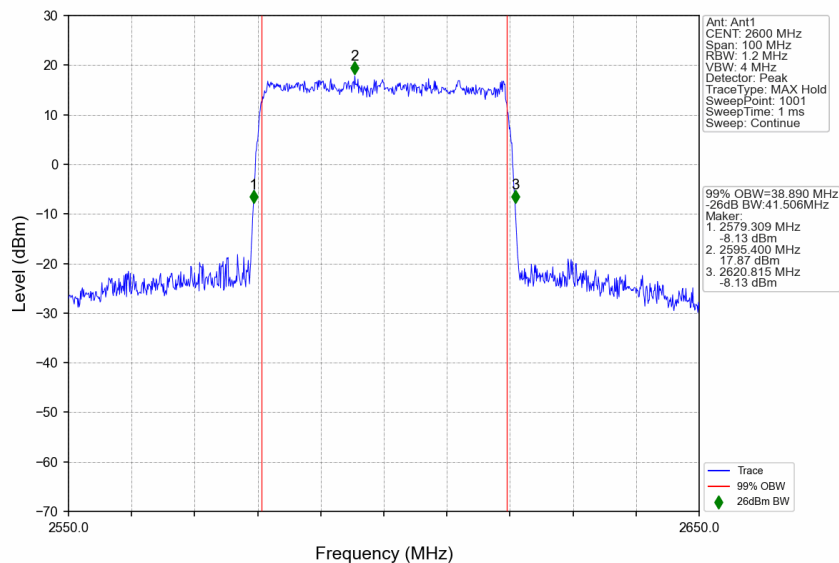
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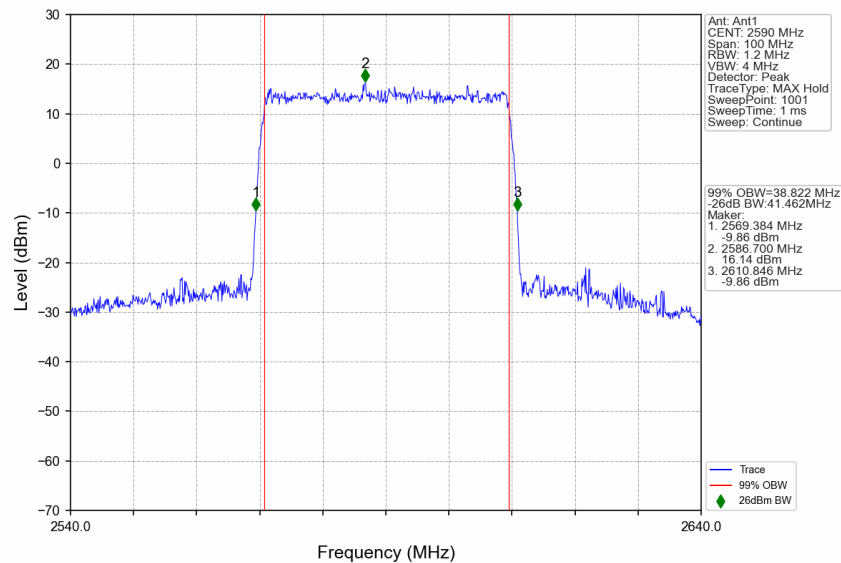
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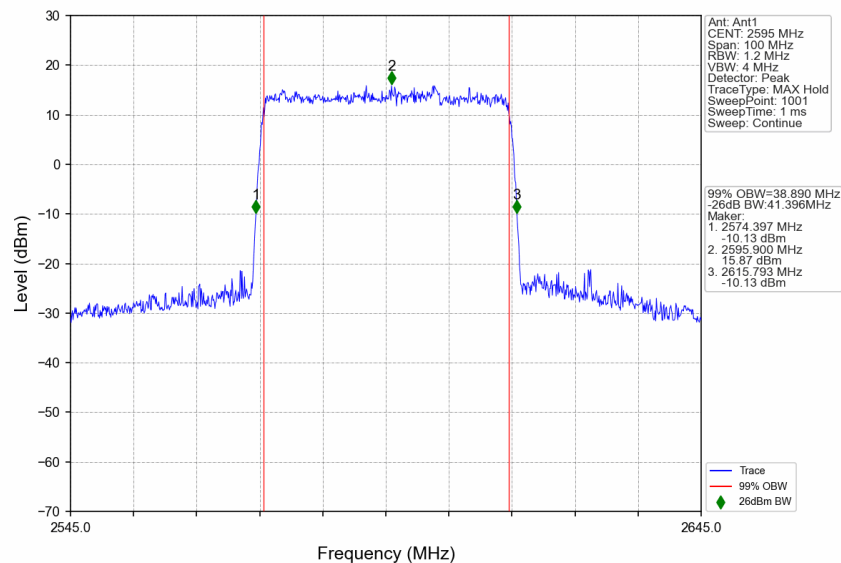
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2590MHz_Outer_Full



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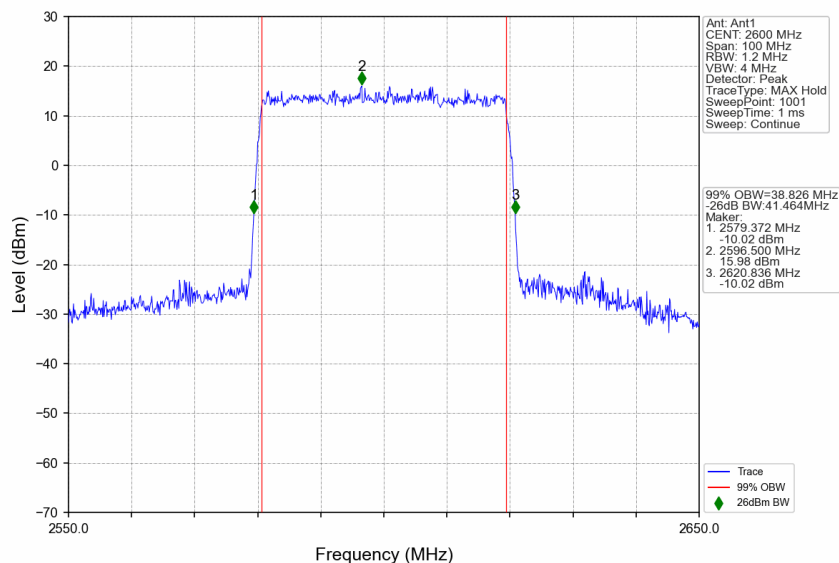
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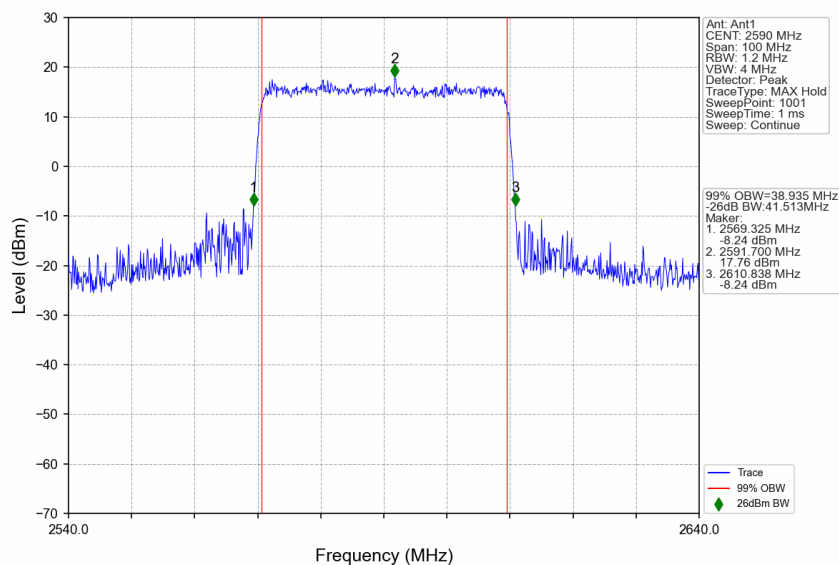
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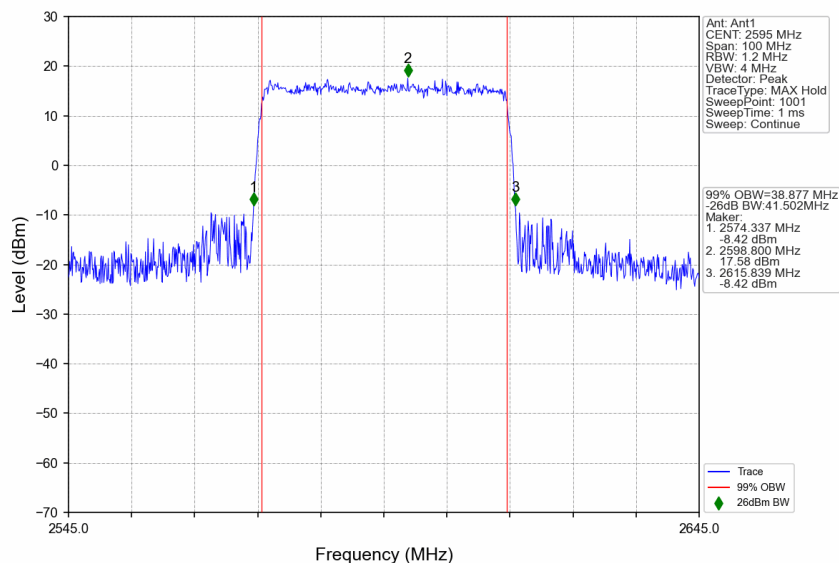
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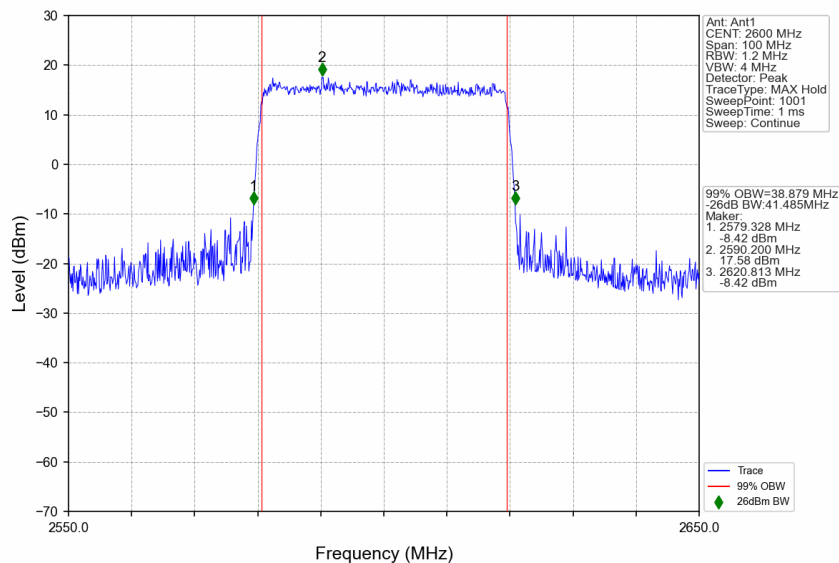
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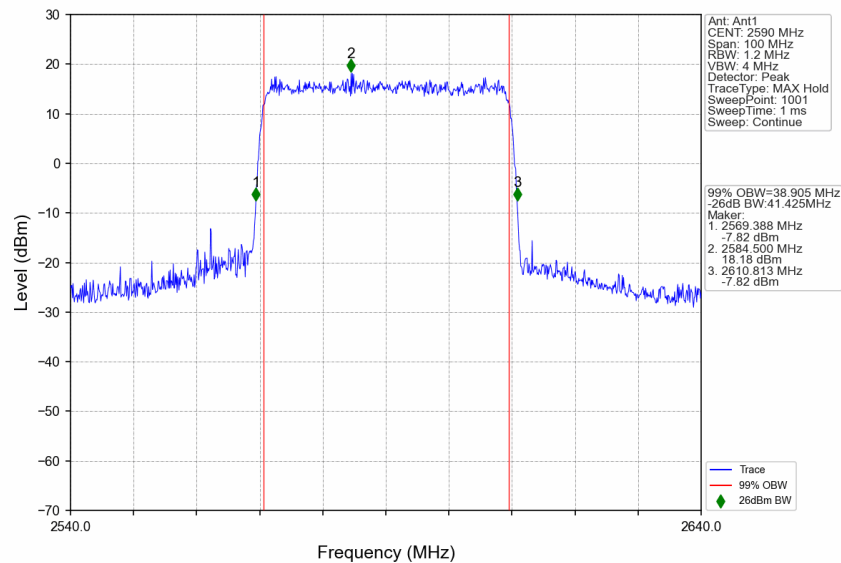
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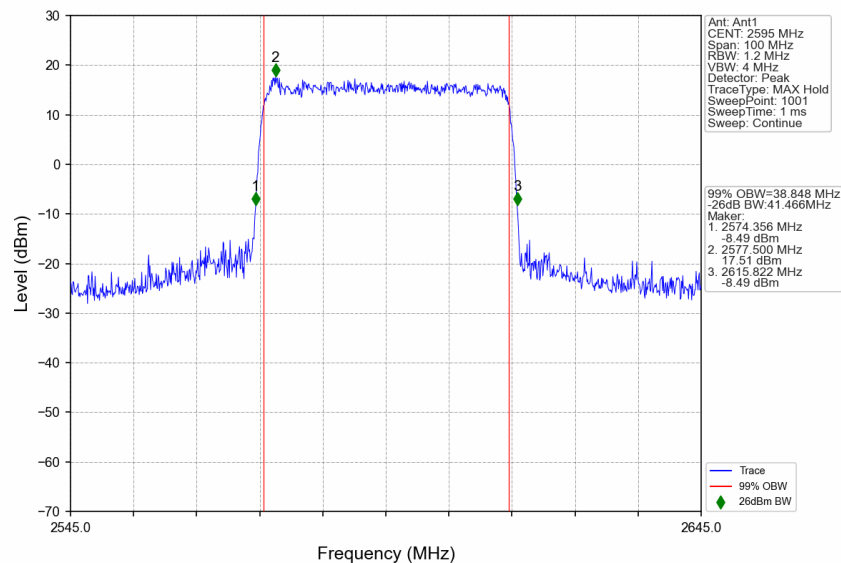
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM 2590MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM 2595MHz_Outer_Full



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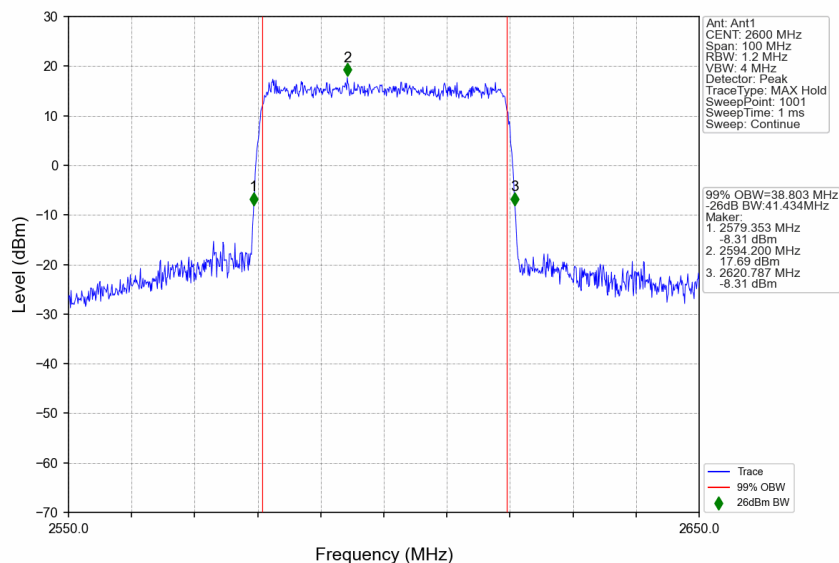
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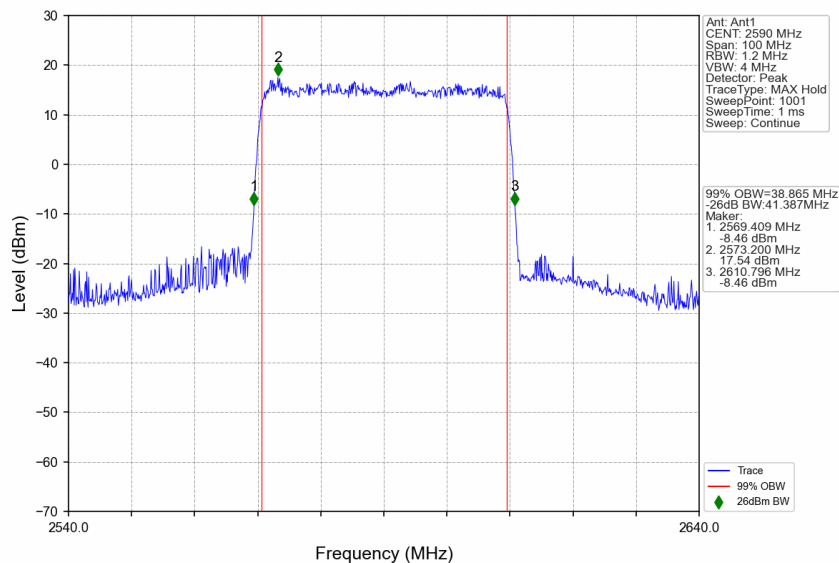
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2590MHz_Outer_Full



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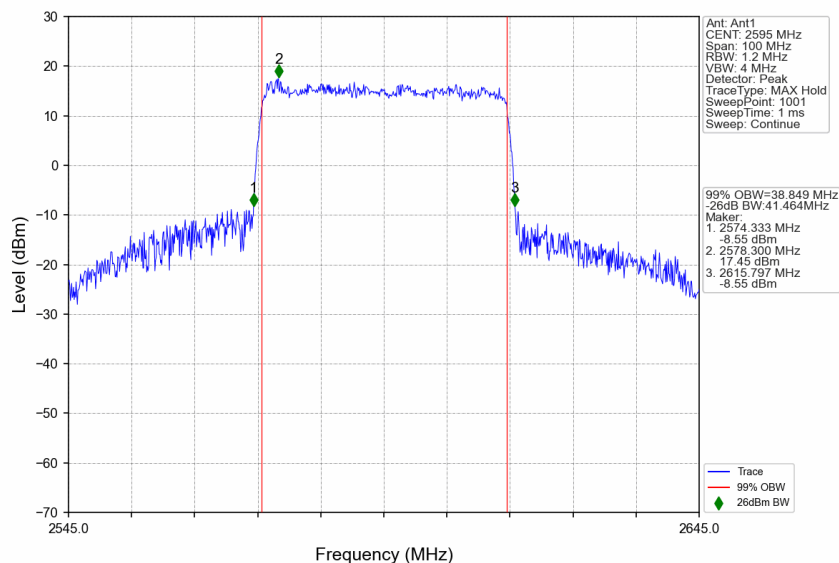
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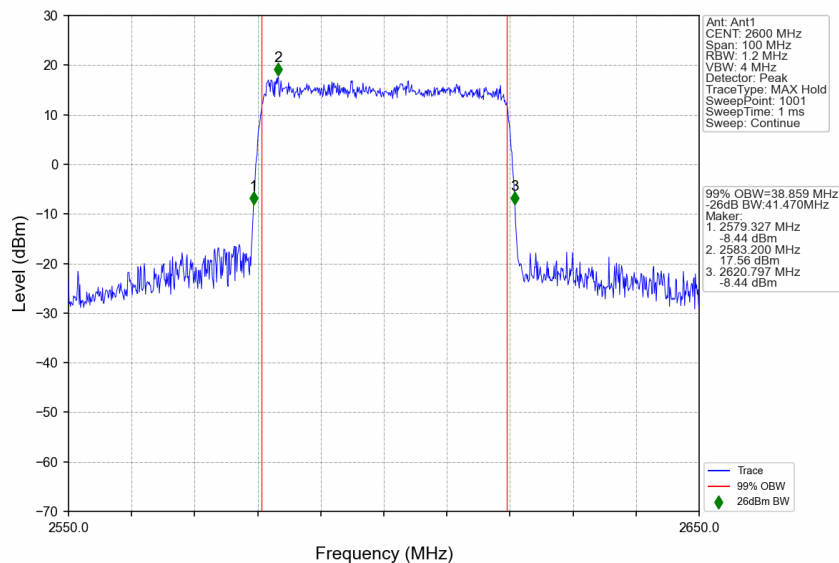
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2600MHz_Outer_Full



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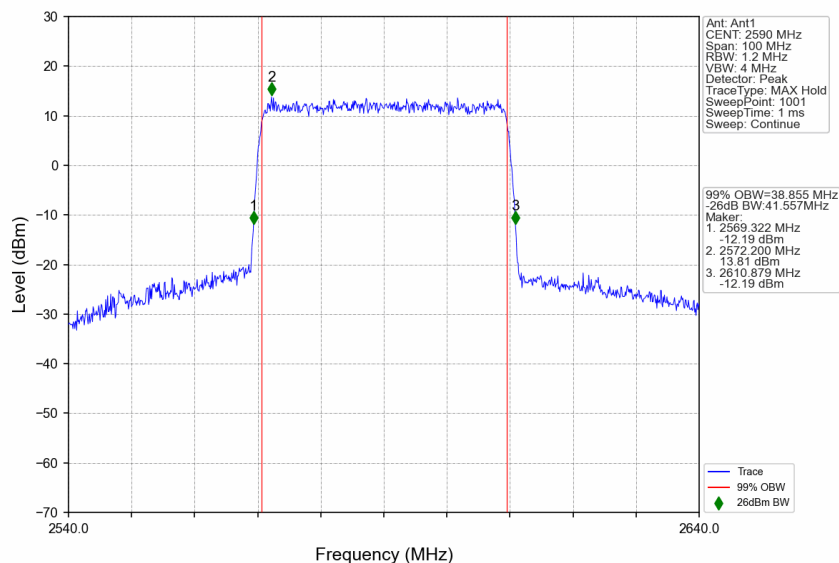
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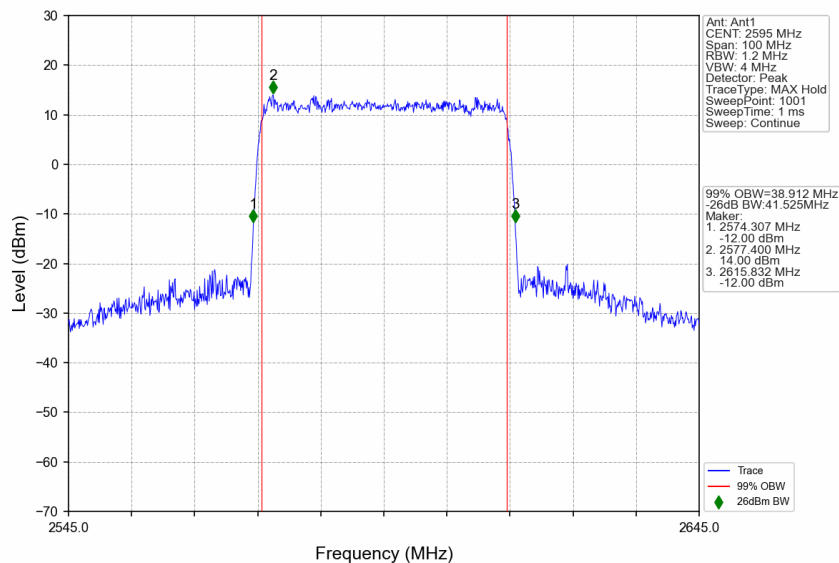
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM_256 QAM_2590MHz_Outer_Full



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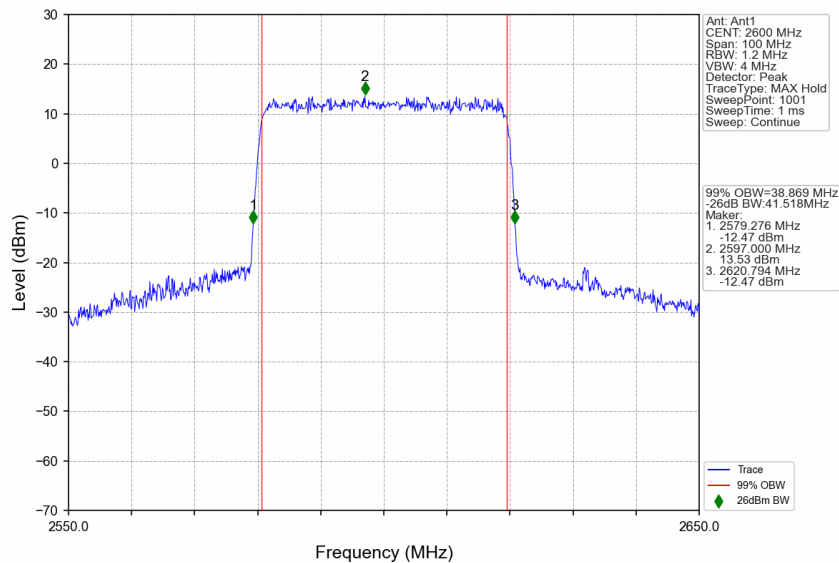
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2600MHz_Outer_Full



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4.8 30k_SISO_10MHz_NTNV

4.8.1 Test Result

5G NR n38 SCS=30kHz SISO 10MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2575	Outer Full	8.71	9.53	/	Pass
	2595	Outer Full	8.72	9.50	/	Pass
	2615	Outer Full	8.71	9.43	/	Pass
DFT-s-OFDM QPSK	2575	Outer Full	8.66	9.54	/	Pass
	2595	Outer Full	8.67	9.48	/	Pass
	2615	Outer Full	8.69	9.56	/	Pass
DFT-s-OFDM 16 QAM	2575	Outer Full	8.65	9.52	/	Pass
	2595	Outer Full	8.65	9.67	/	Pass
	2615	Outer Full	8.70	9.50	/	Pass
DFT-s-OFDM 64 QAM	2575	Outer Full	8.68	9.61	/	Pass
	2595	Outer Full	8.69	9.57	/	Pass
	2615	Outer Full	8.71	9.61	/	Pass
DFT-s-OFDM 256 QAM	2575	Outer Full	8.65	9.54	/	Pass
	2595	Outer Full	8.65	9.49	/	Pass
	2615	Outer Full	8.66	9.52	/	Pass
CP-OFDM QPSK	2575	Outer Full	8.69	9.56	/	Pass
	2595	Outer Full	8.68	9.64	/	Pass
	2615	Outer Full	8.68	9.57	/	Pass
CP-OFDM 16 QAM	2575	Outer Full	8.64	9.57	/	Pass
	2595	Outer Full	8.65	9.54	/	Pass
	2615	Outer Full	8.65	9.52	/	Pass
CP-OFDM 64 QAM	2575	Outer Full	8.65	9.59	/	Pass
	2595	Outer Full	8.68	9.59	/	Pass
	2615	Outer Full	8.66	10.33	/	Pass
CP-OFDM 256 QAM	2575	Outer Full	8.73	9.59	/	Pass
	2595	Outer Full	8.72	9.63	/	Pass
	2615	Outer Full	8.72	9.60	/	Pass



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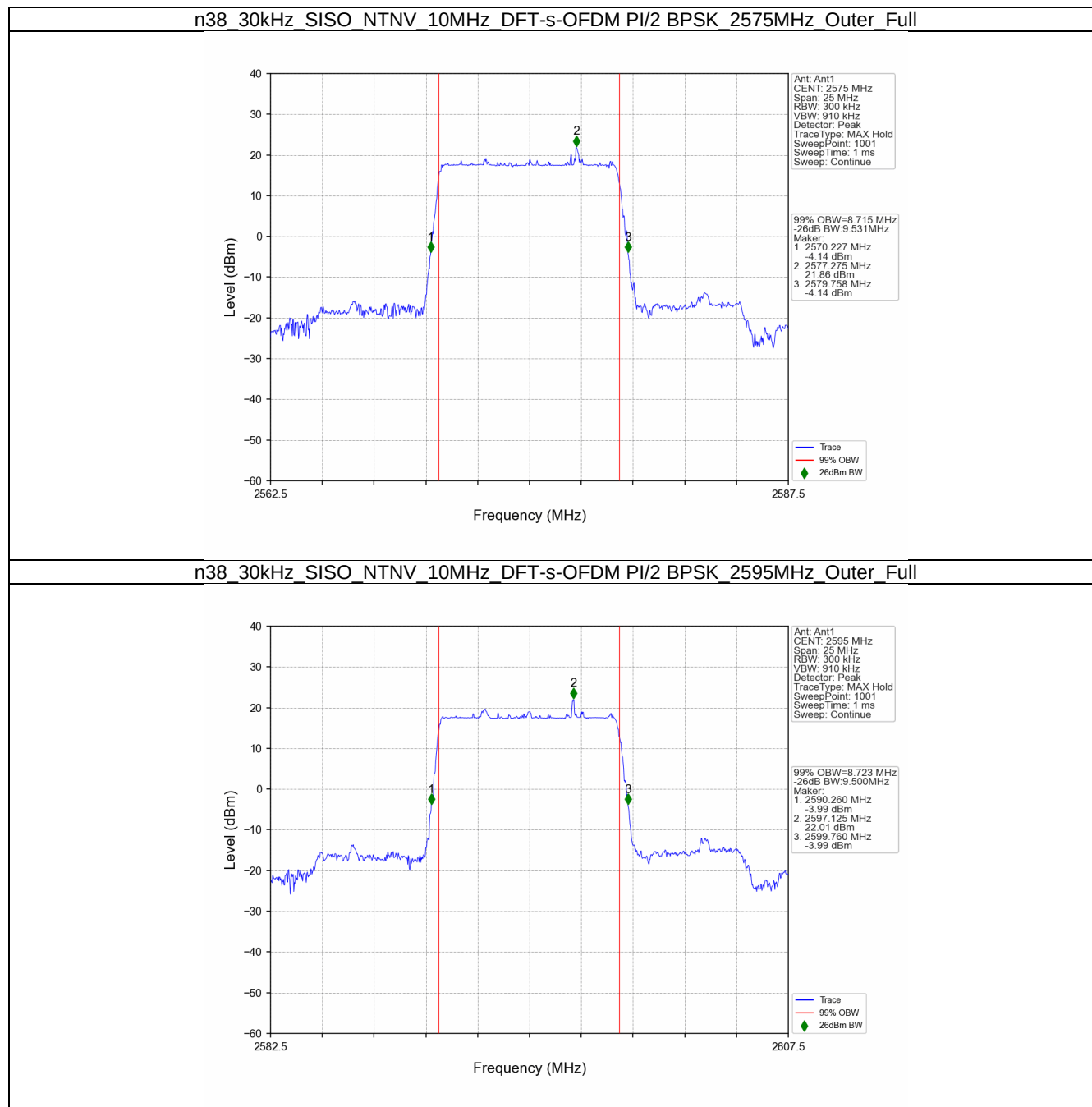
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4.8.2 Test Graph



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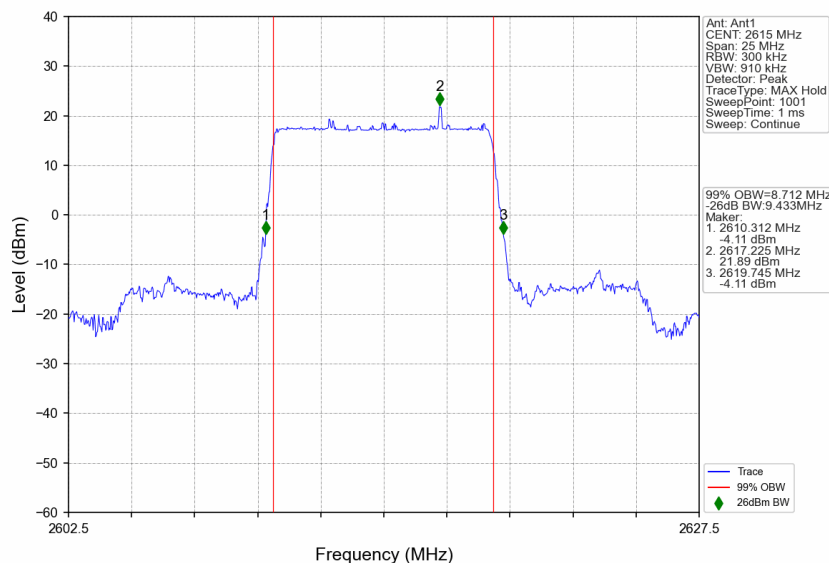
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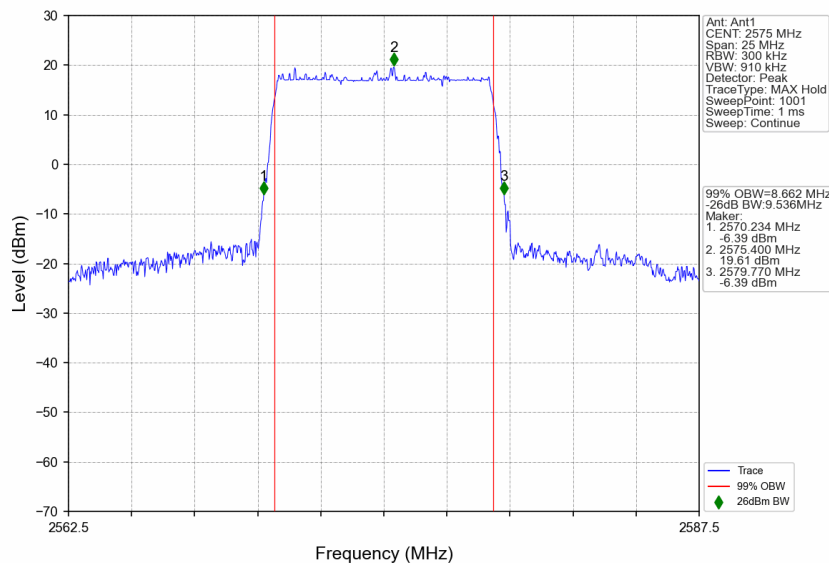
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2575MHz_Outer_Full



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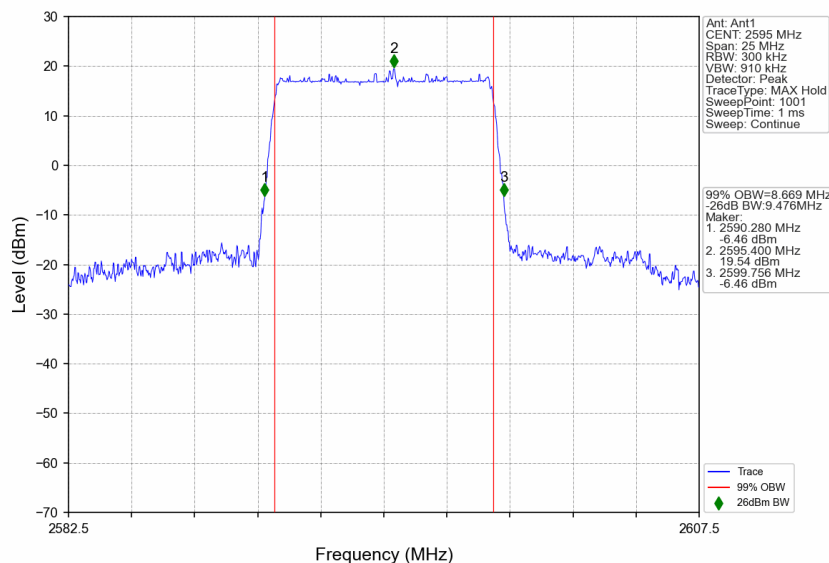
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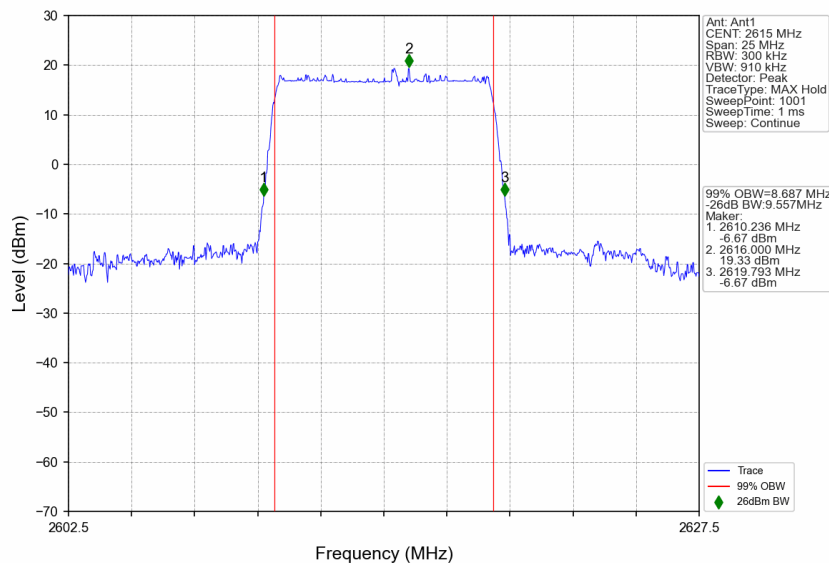
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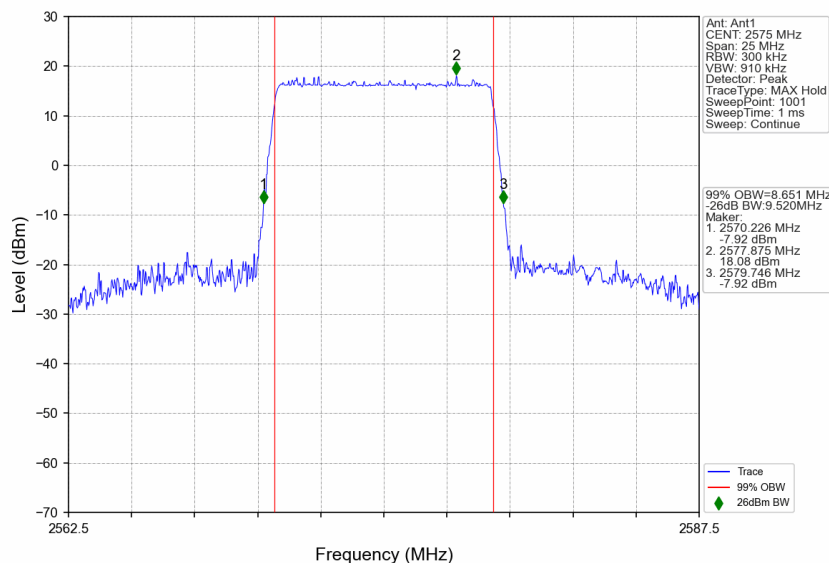
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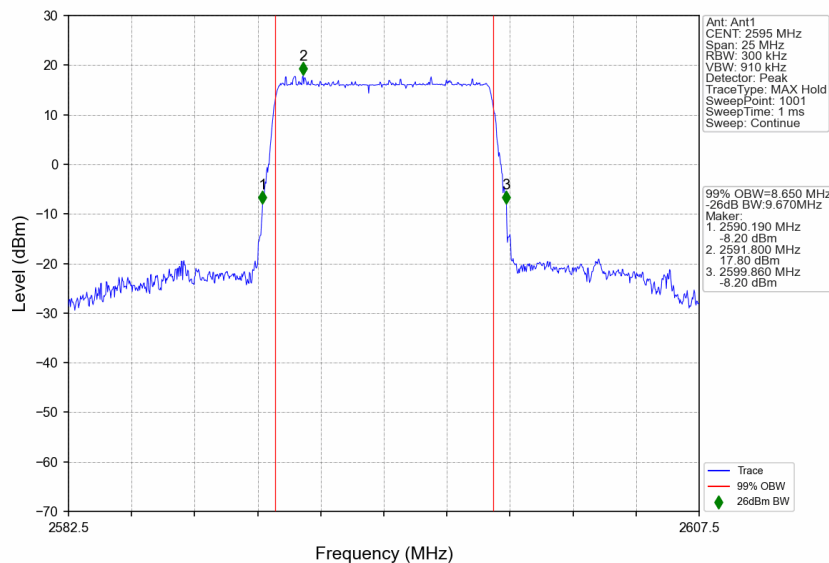
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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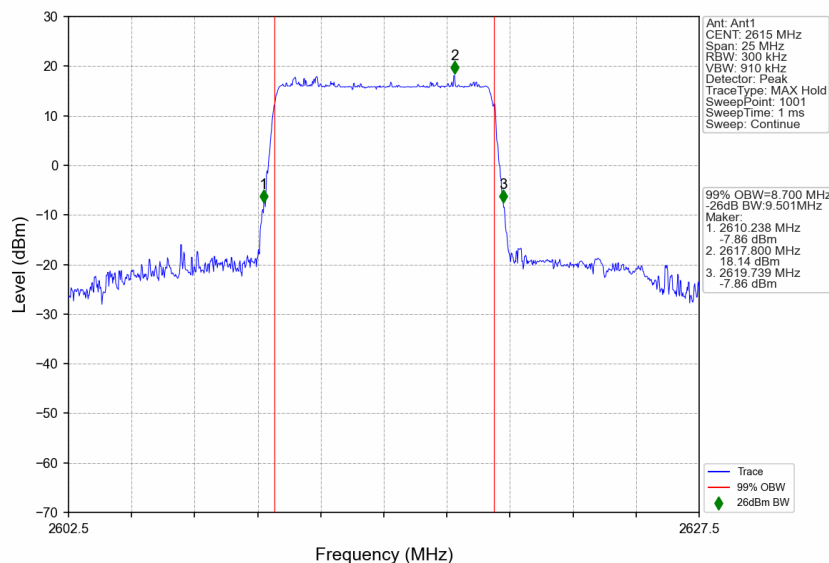
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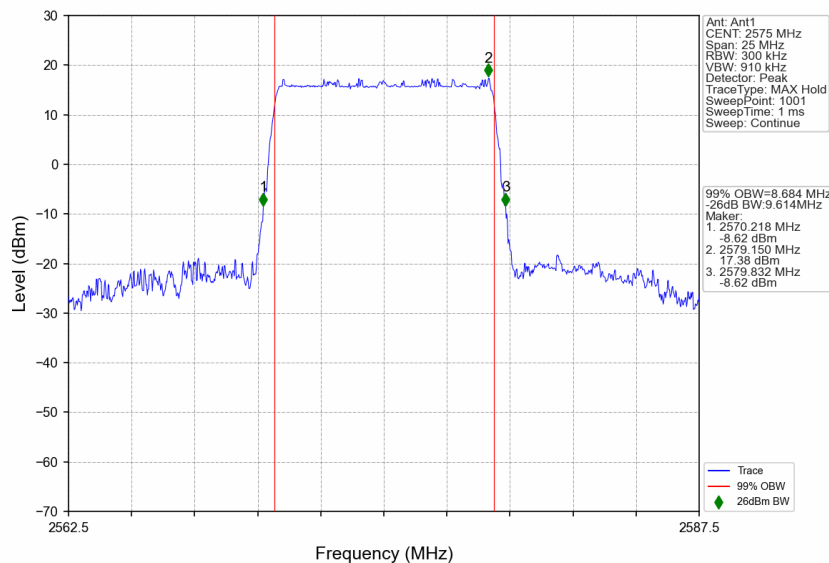
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2575MHz_Outer_Full



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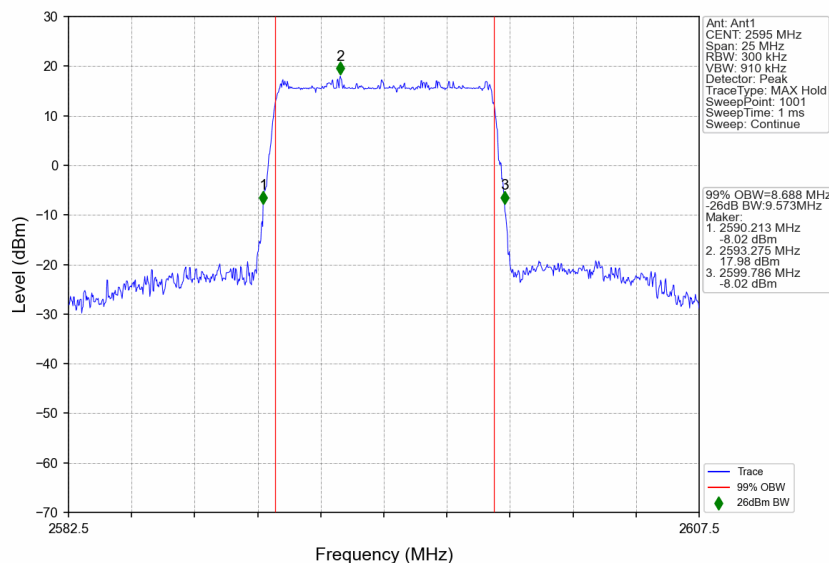
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Report No.: SEWM2311000456RG02

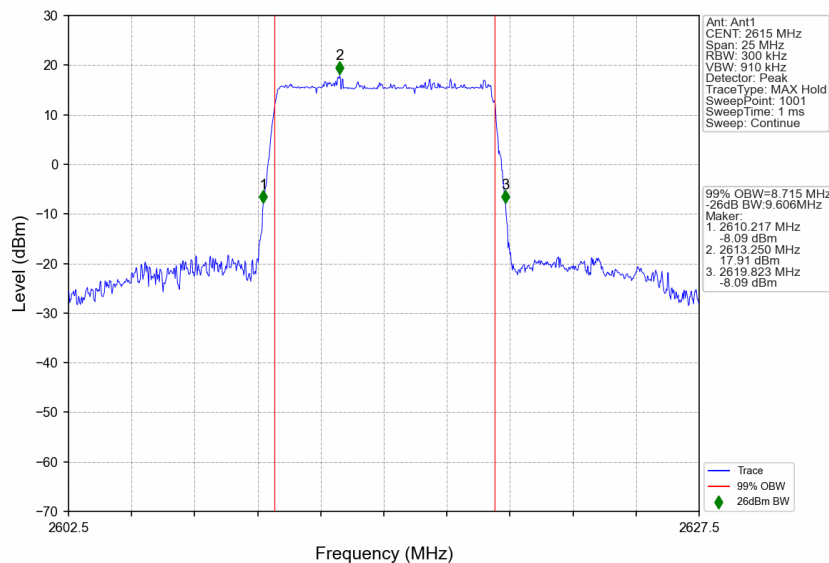
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2615MHz_Outer_Full



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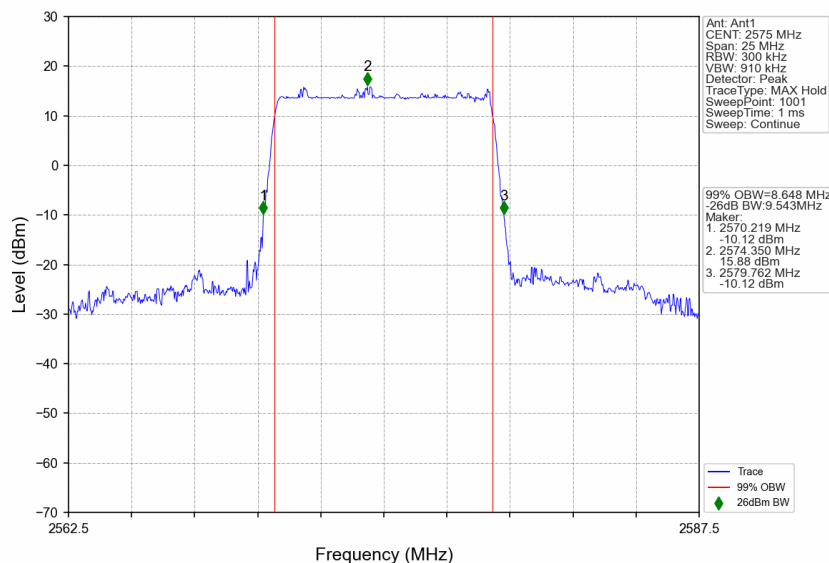
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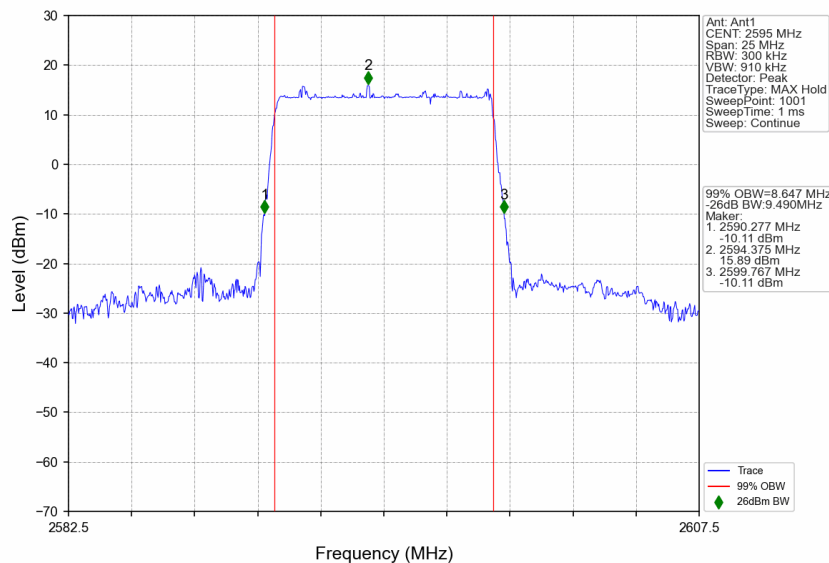
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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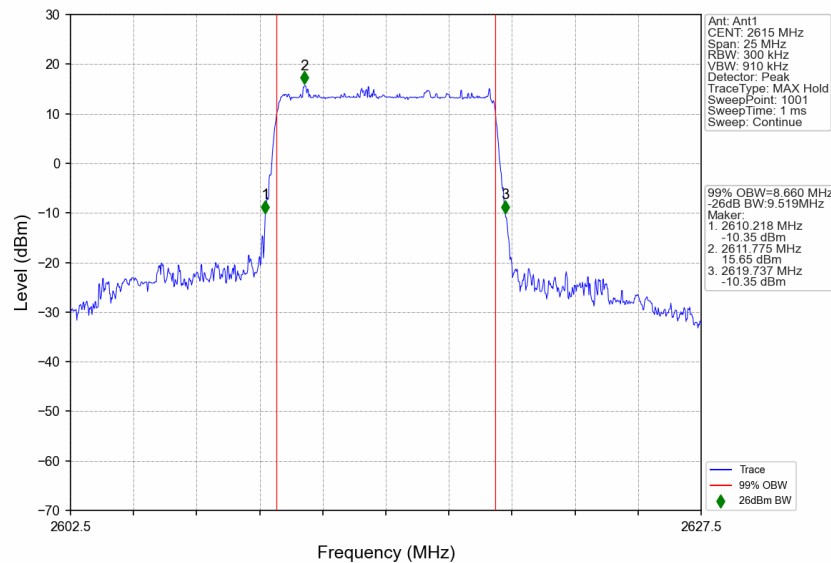
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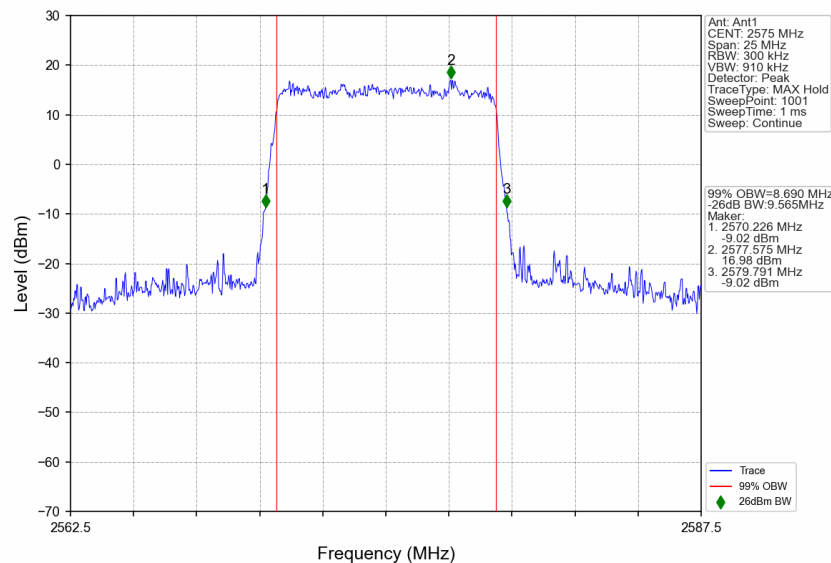
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256 QAM_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2575MHz_Outer_Full



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