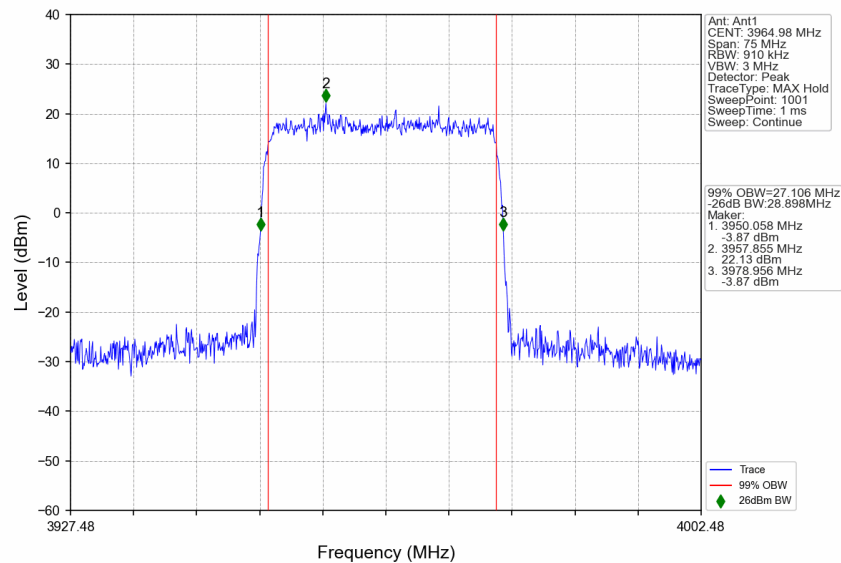


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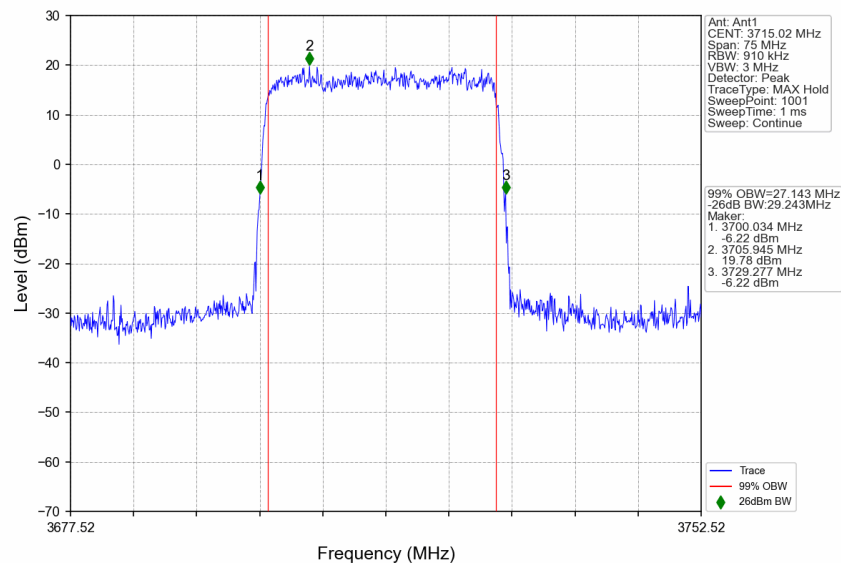
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3715.02MHz_Outer_Full



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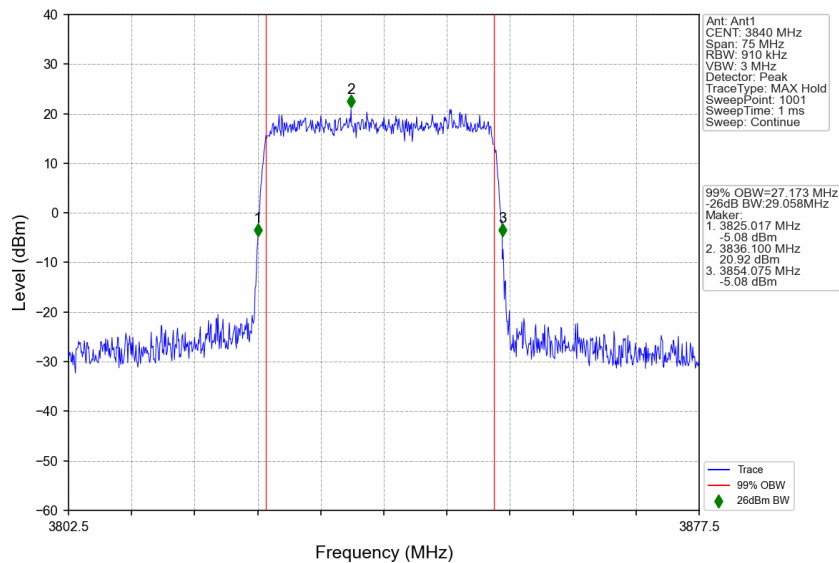
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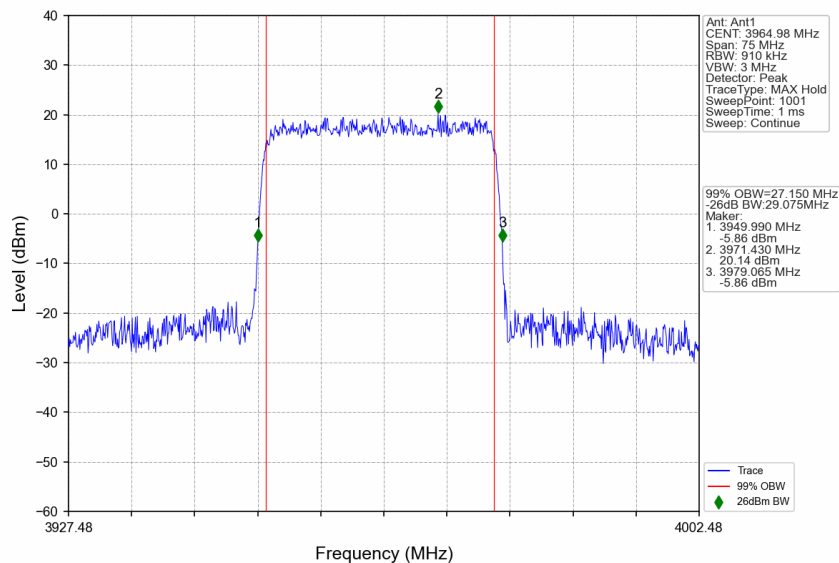
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3964.98MHz_Outer_Full



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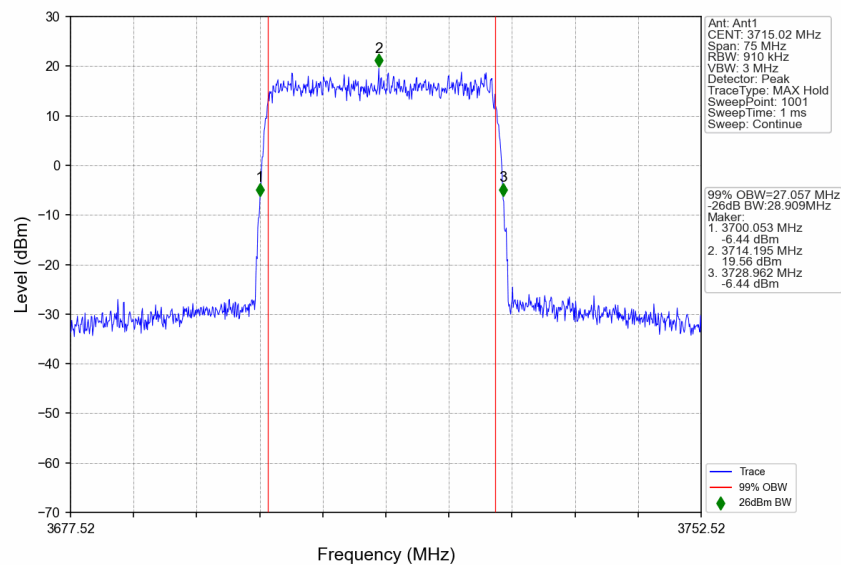
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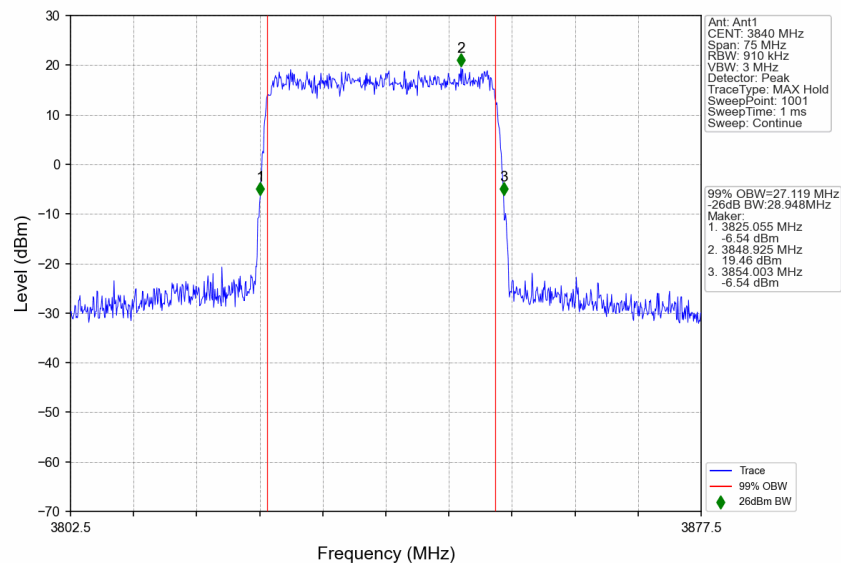
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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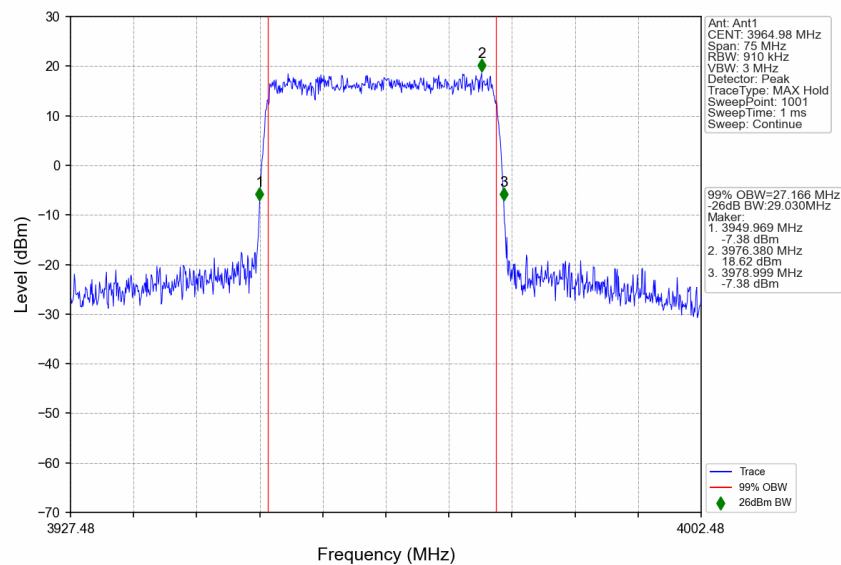
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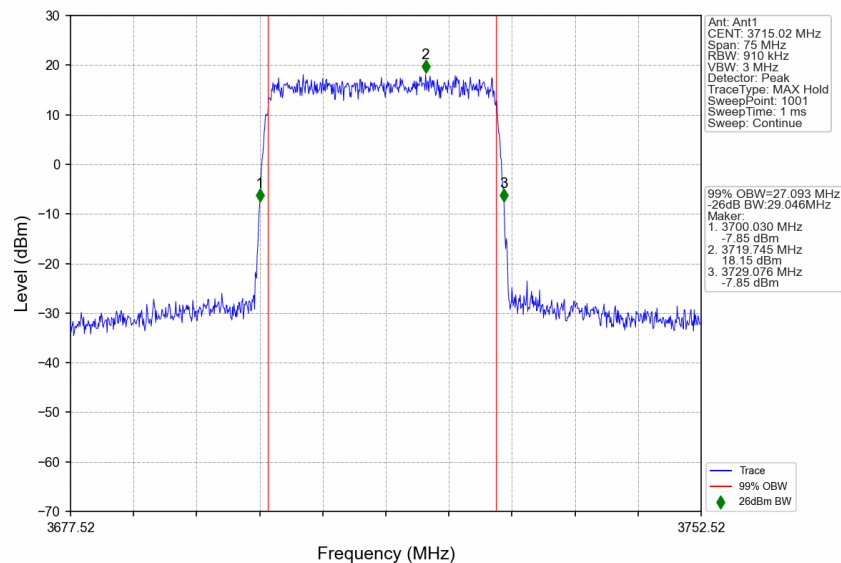
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3715.02MHz_Outer_Full



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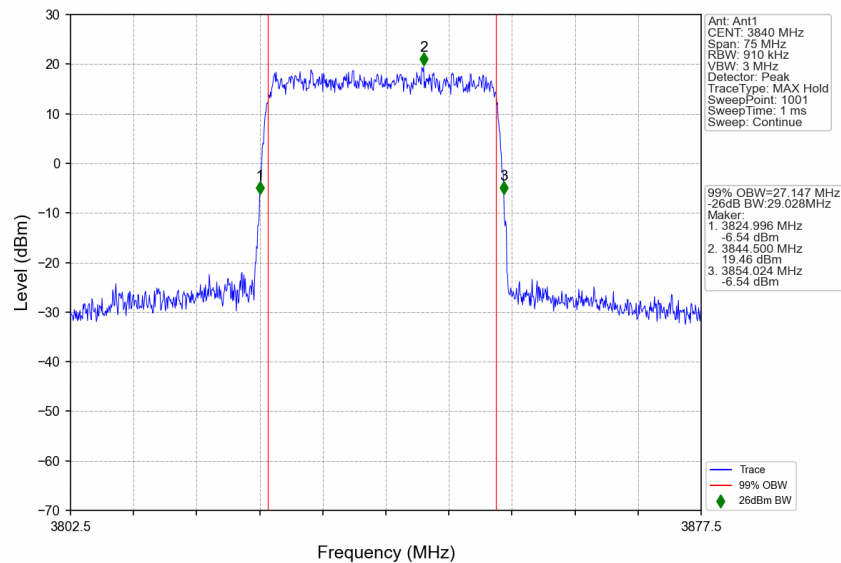
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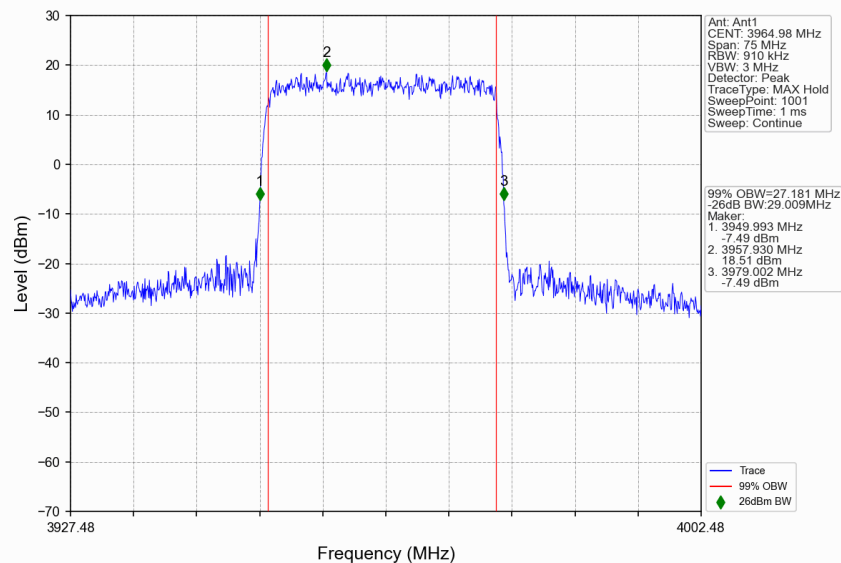
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3964.98MHz_Outer_Full



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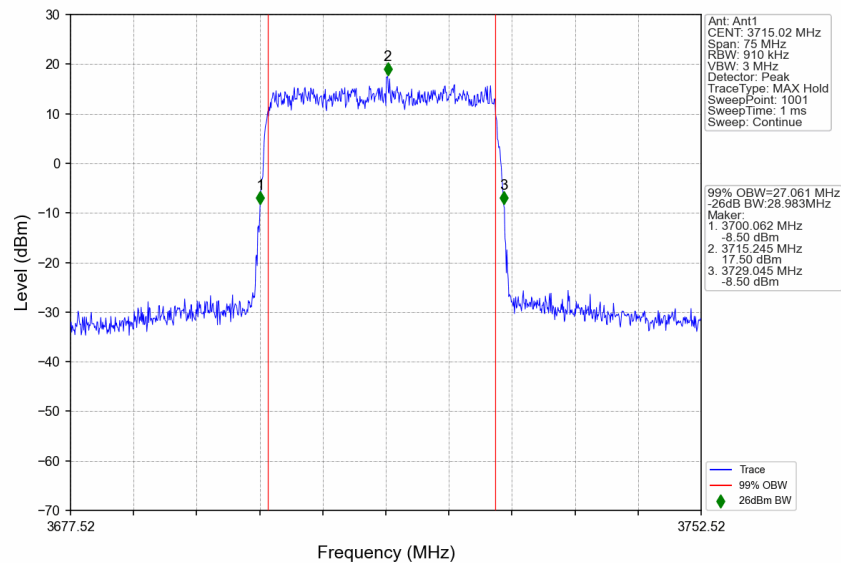
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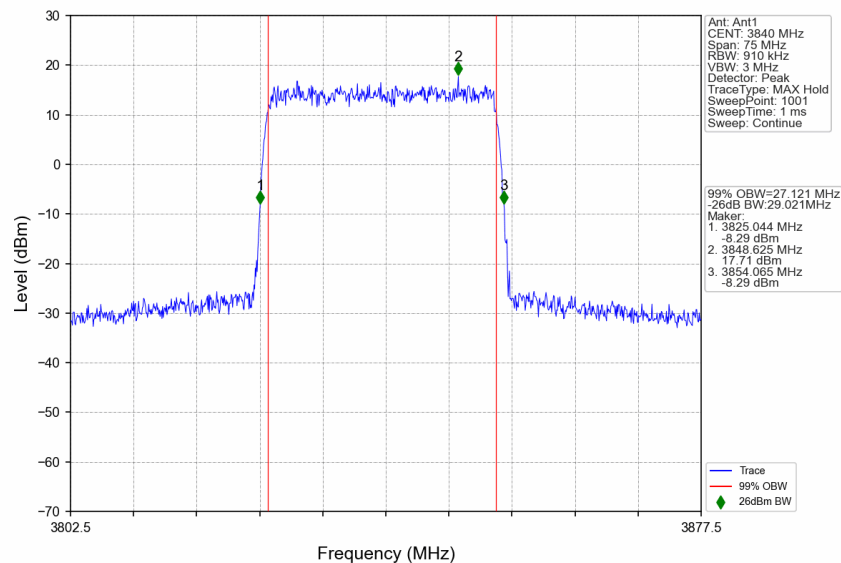
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full



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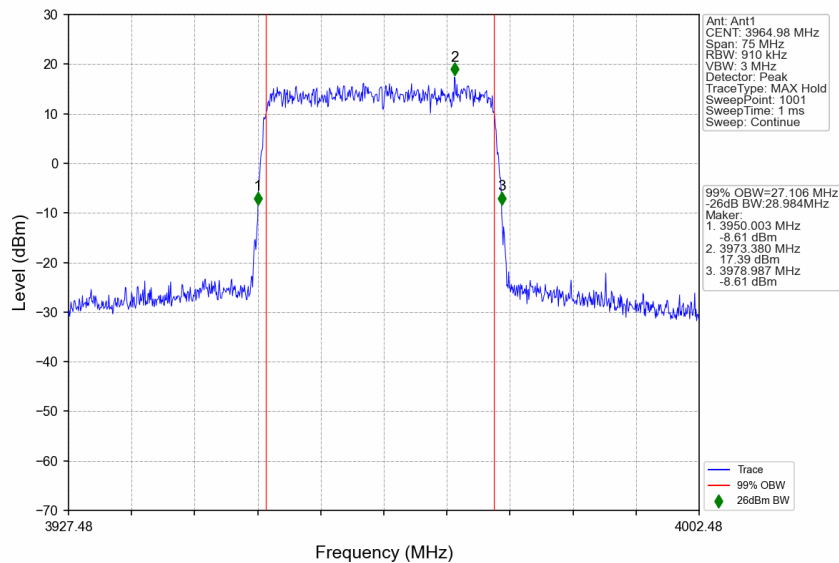
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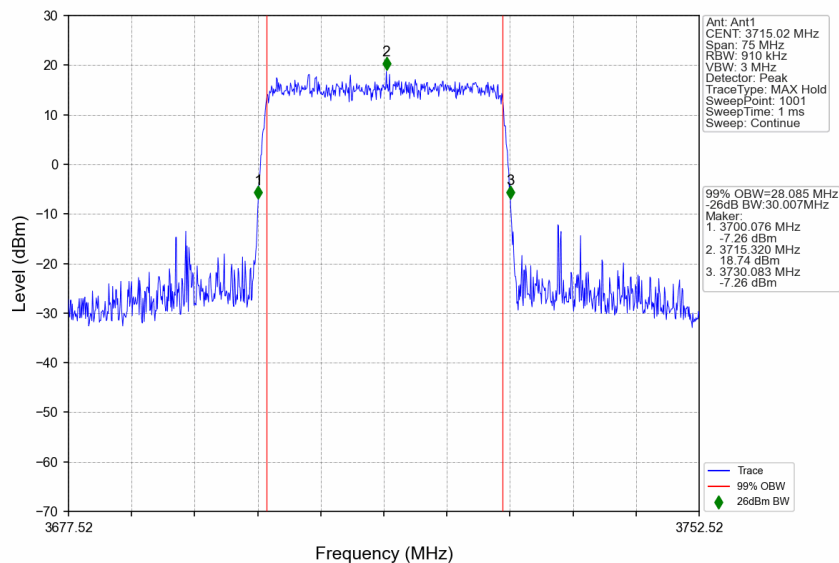
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3715.02MHz_Outer_Full



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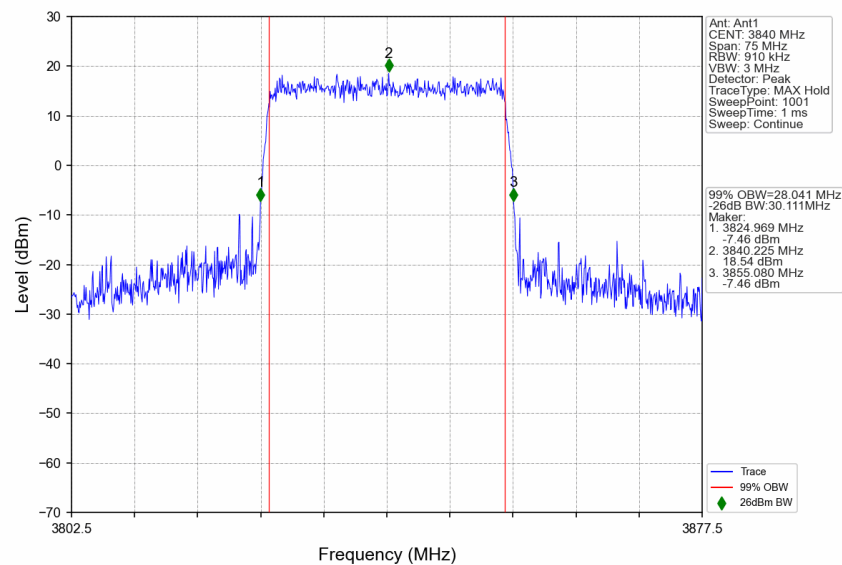
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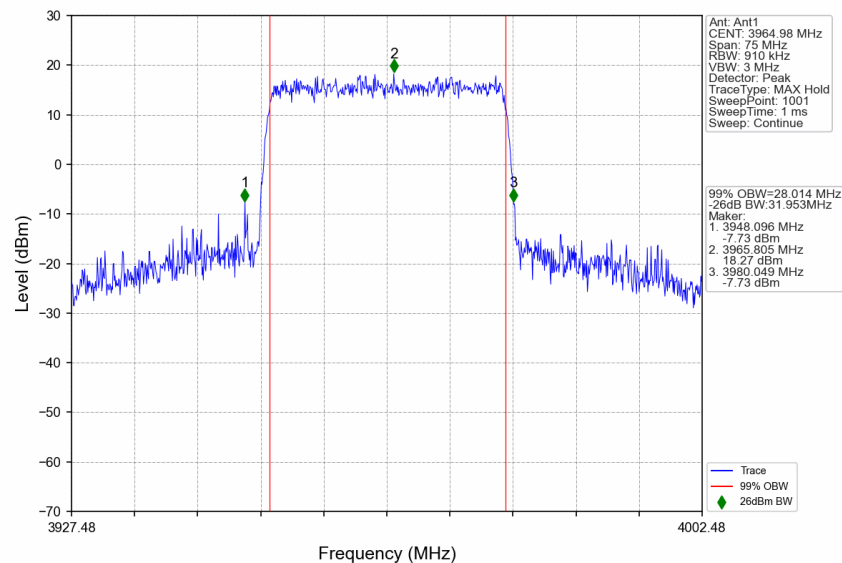
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3964.98MHz_Outer_Full



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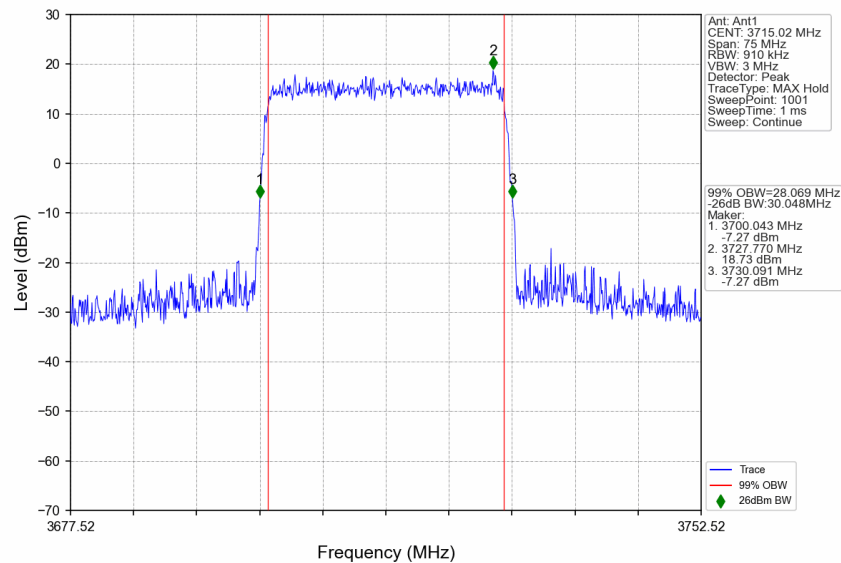
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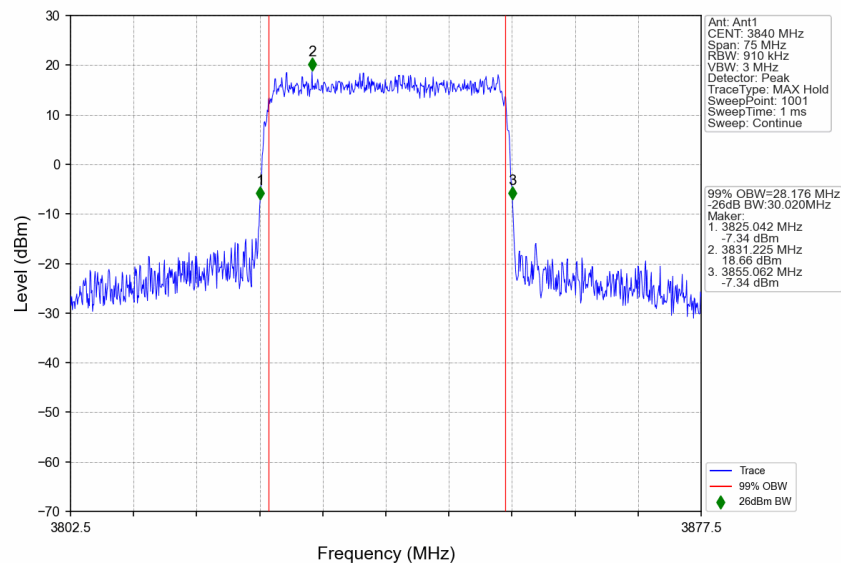
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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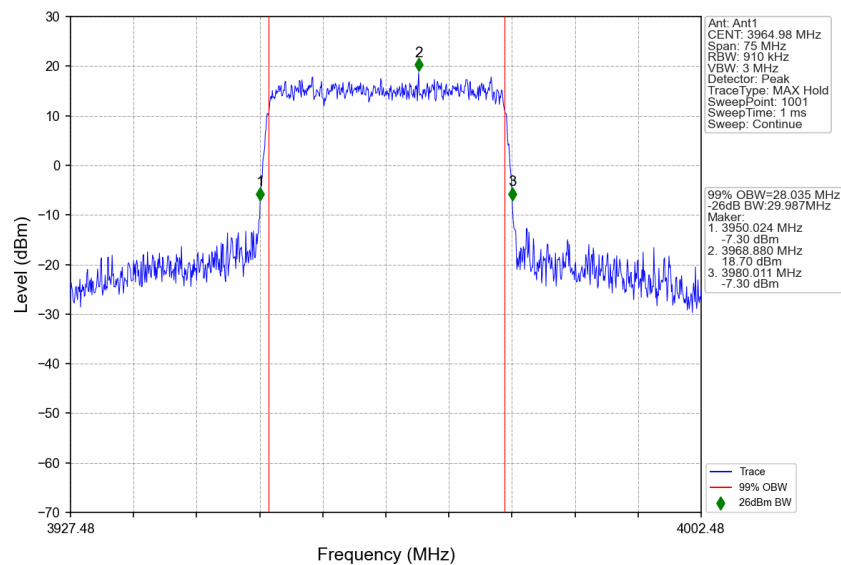
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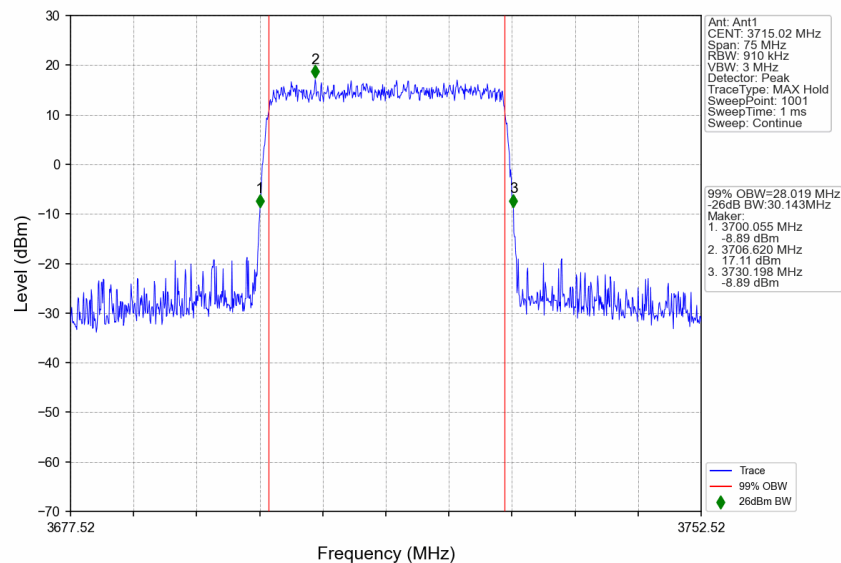
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3715.02MHz_Outer_Full



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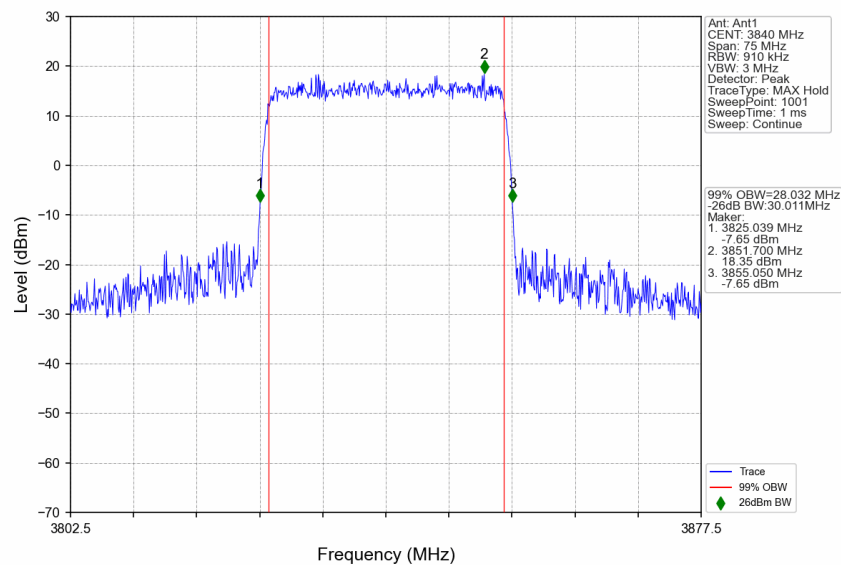
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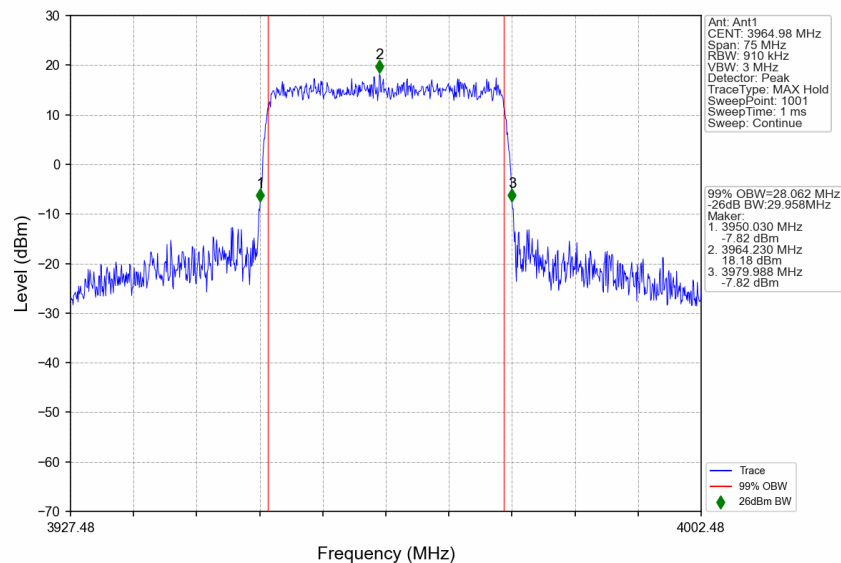
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3964.98MHz_Outer_Full



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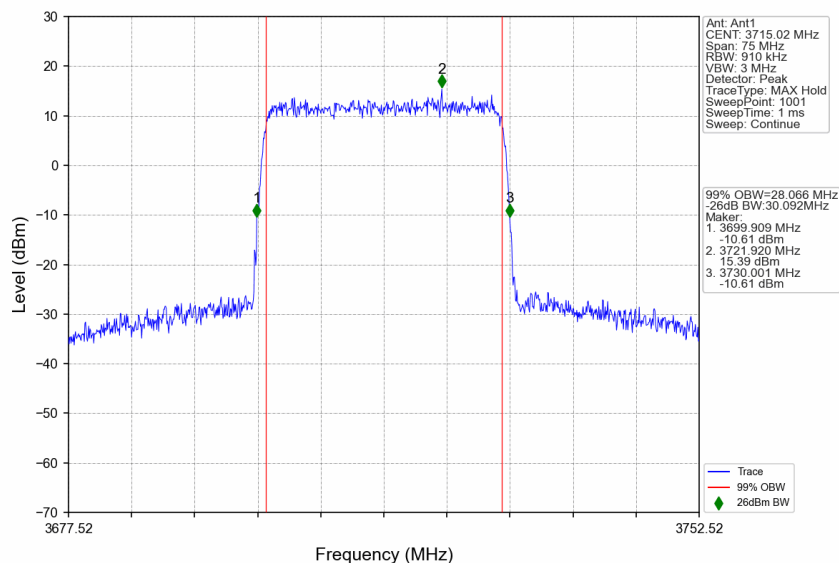
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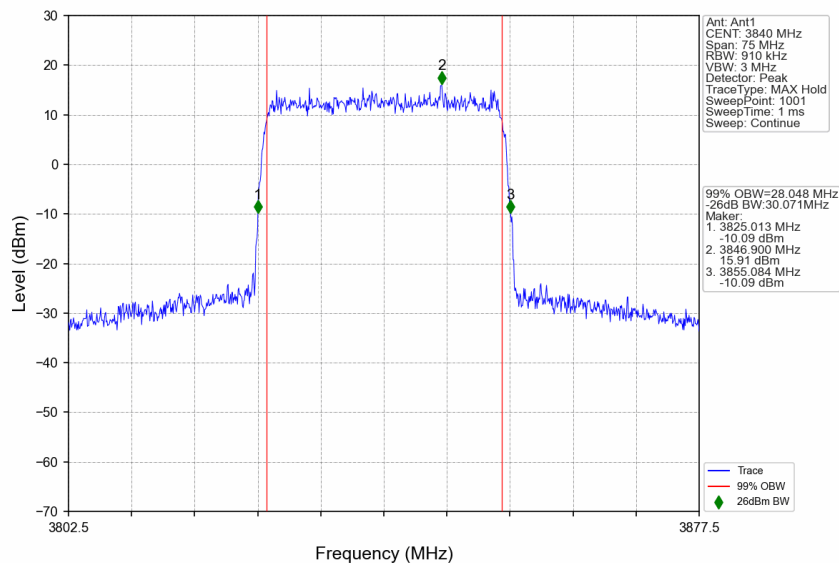
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3840MHz_Outer_Full



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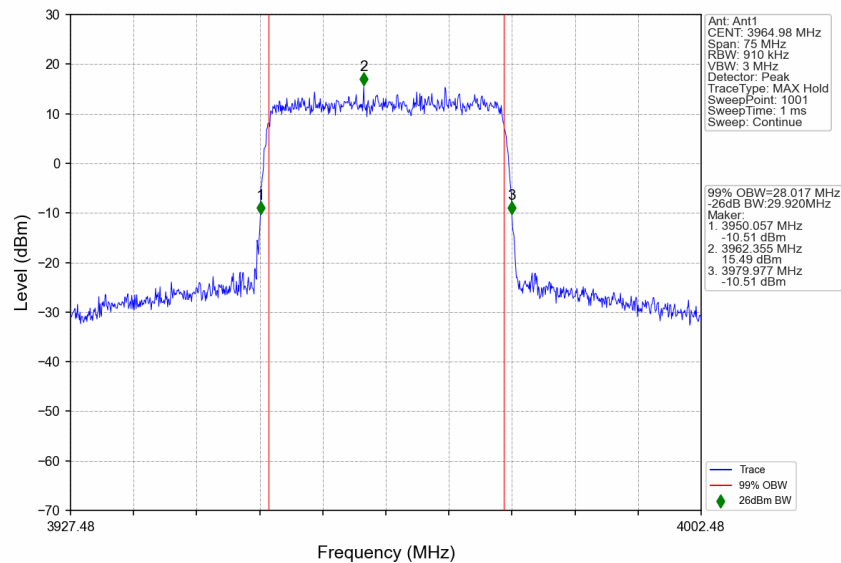
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n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_3964.98MHz_Outer_Full



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4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

5G NR n77a SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer Full	36.13	38.61	/	Pass
	3840	Outer Full	36.12	38.74	/	Pass
	3960	Outer Full	36.21	38.50	/	Pass
DFT-s-OFDM QPSK	3720	Outer Full	36.03	38.53	/	Pass
	3840	Outer Full	36.11	38.64	/	Pass
	3960	Outer Full	36.08	38.62	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer Full	36.10	38.62	/	Pass
	3840	Outer Full	36.03	38.59	/	Pass
	3960	Outer Full	35.99	38.61	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer Full	35.98	38.74	/	Pass
	3840	Outer Full	36.23	38.63	/	Pass
	3960	Outer Full	36.04	38.77	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer Full	36.12	38.47	/	Pass
	3840	Outer Full	36.07	38.53	/	Pass
	3960	Outer Full	35.93	38.52	/	Pass
CP-OFDM QPSK	3720	Outer Full	38.12	40.69	/	Pass
	3840	Outer Full	38.23	40.68	/	Pass
	3960	Outer Full	38.15	40.66	/	Pass
CP-OFDM 16 QAM	3720	Outer Full	38.09	40.63	/	Pass
	3840	Outer Full	38.09	40.85	/	Pass
	3960	Outer Full	38.13	40.81	/	Pass
CP-OFDM 64 QAM	3720	Outer Full	38.07	40.73	/	Pass
	3840	Outer Full	38.20	40.75	/	Pass
	3960	Outer Full	38.19	40.78	/	Pass
CP-OFDM 256 QAM	3720	Outer Full	38.16	40.74	/	Pass
	3840	Outer Full	38.04	40.68	/	Pass
	3960	Outer Full	38.07	40.76	/	Pass



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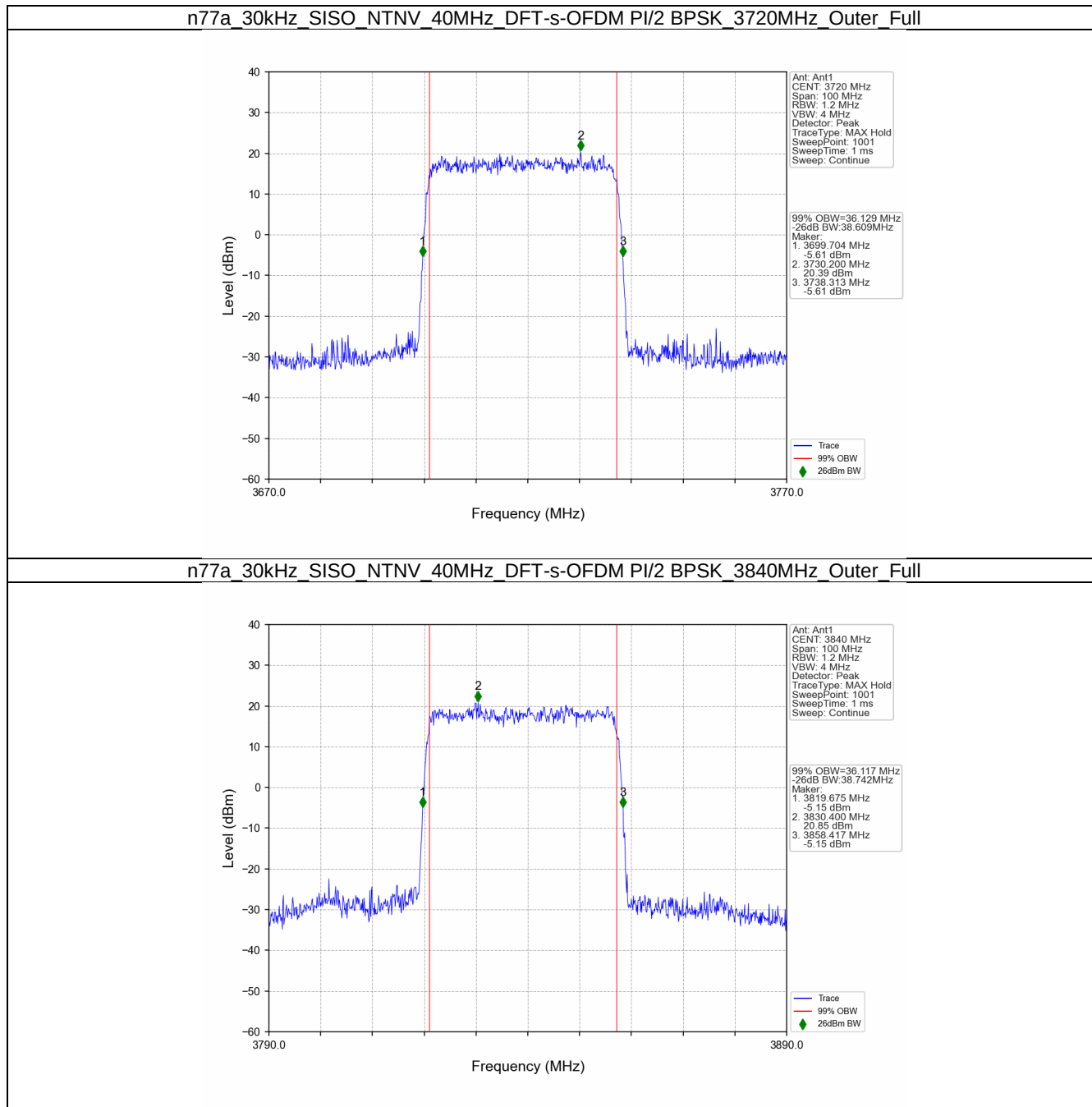
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4.13.2 Test Graph



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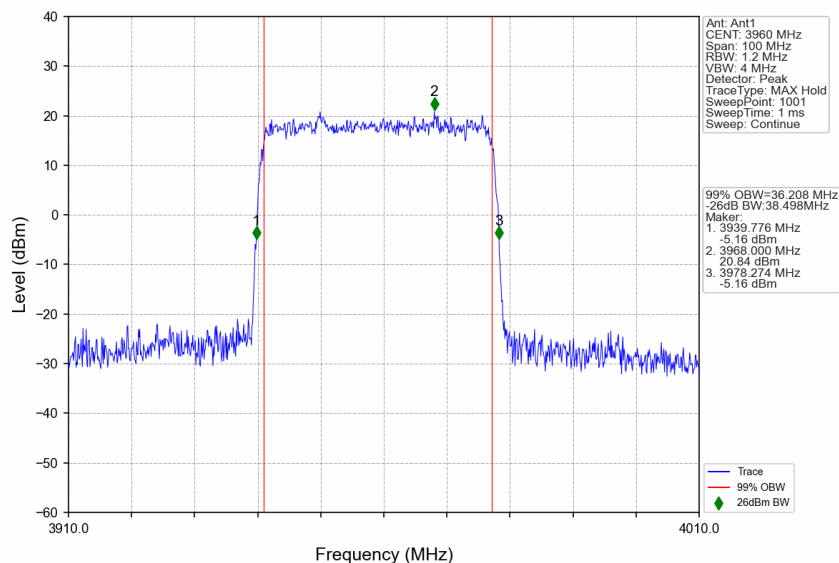
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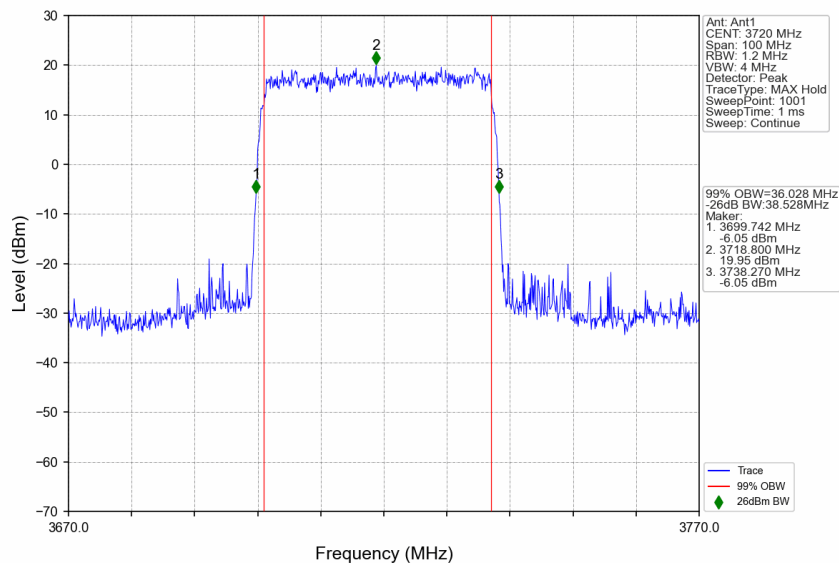
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n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3960MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3720MHz_Outer_Full



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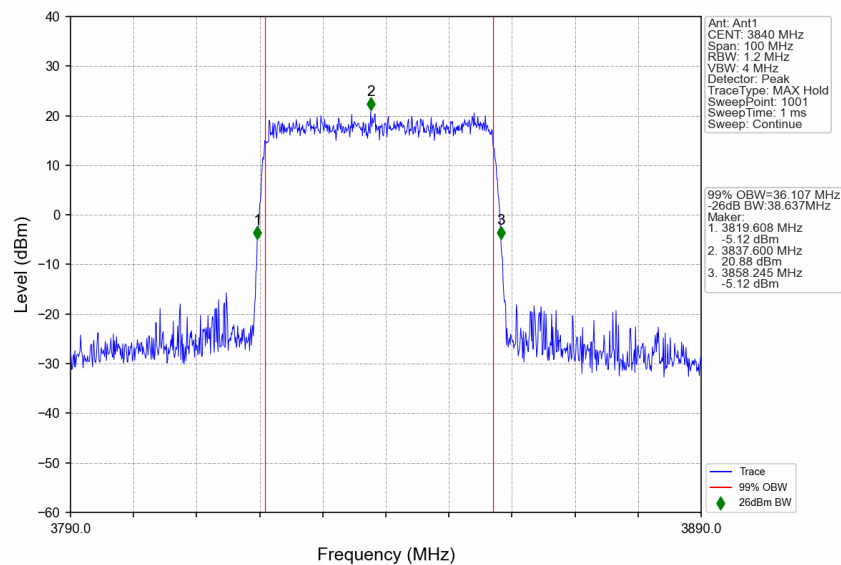
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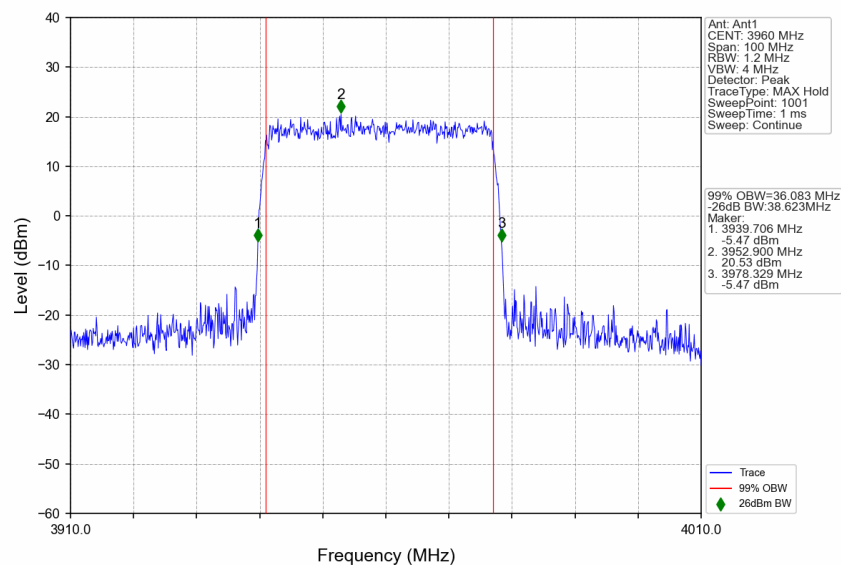
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n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3960MHz_Outer_Full



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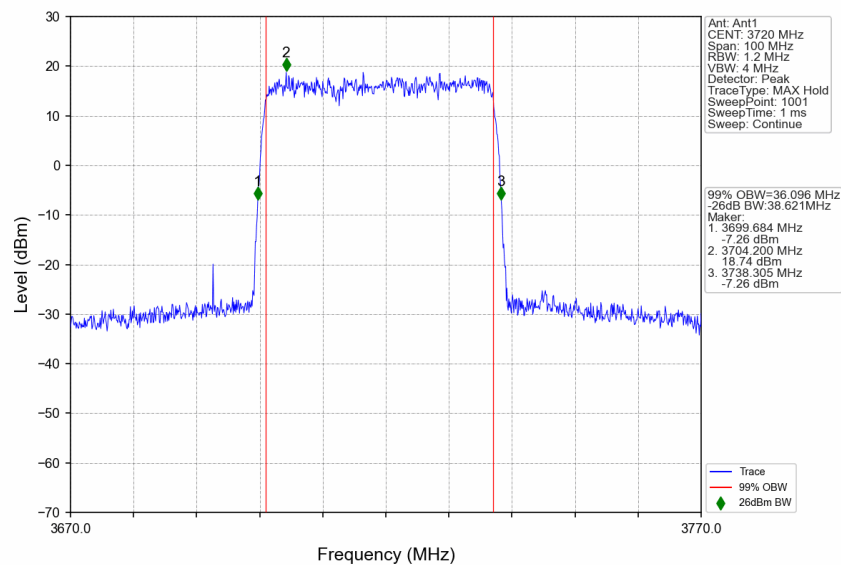
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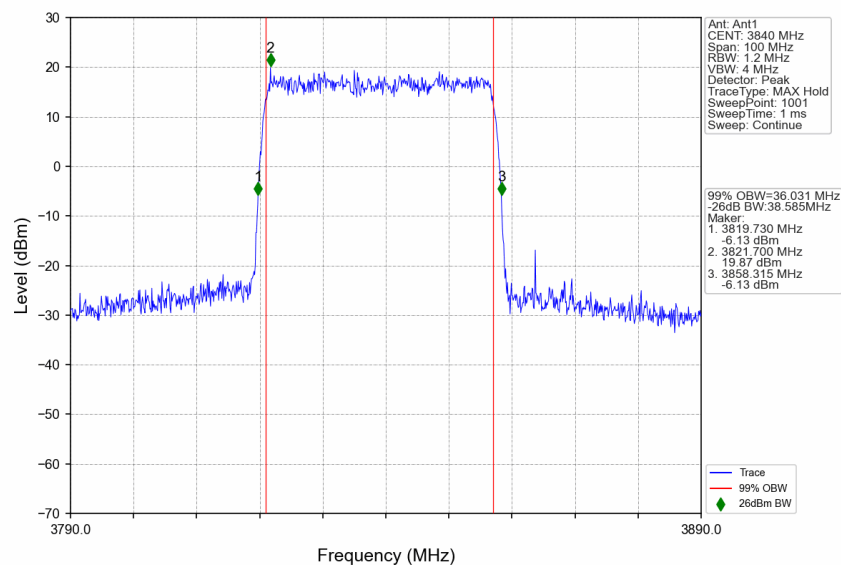
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n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3720MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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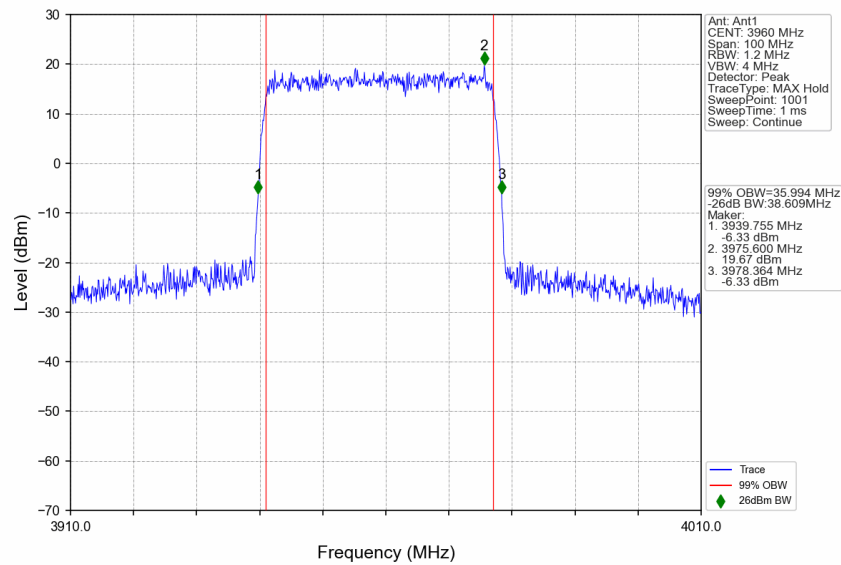
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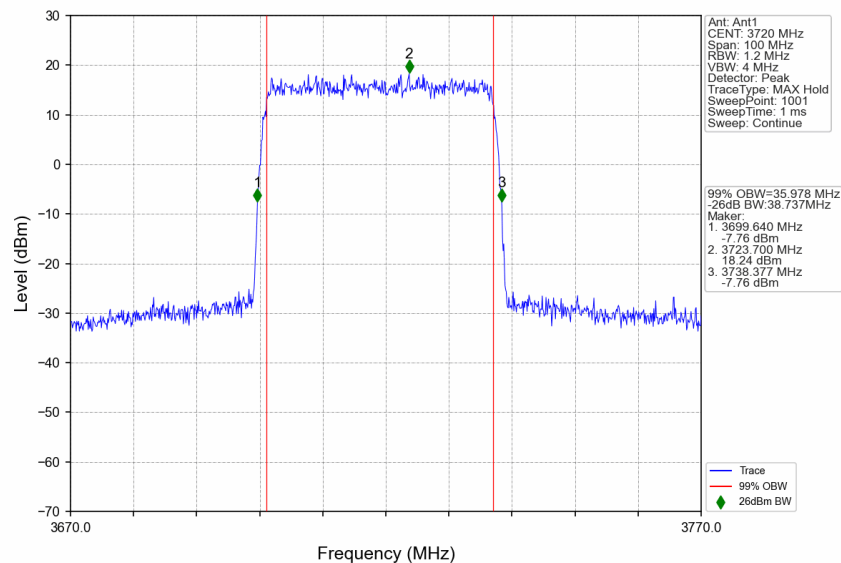
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n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3720MHz_Outer_Full



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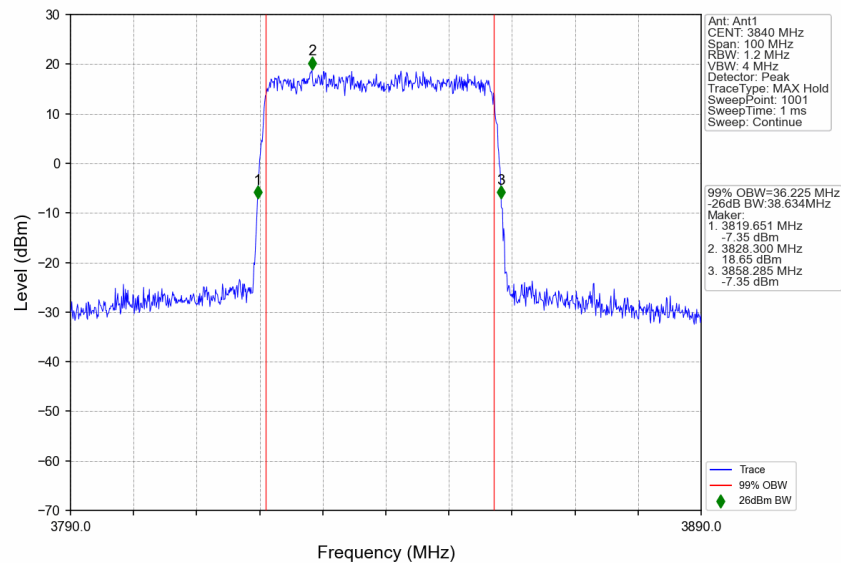
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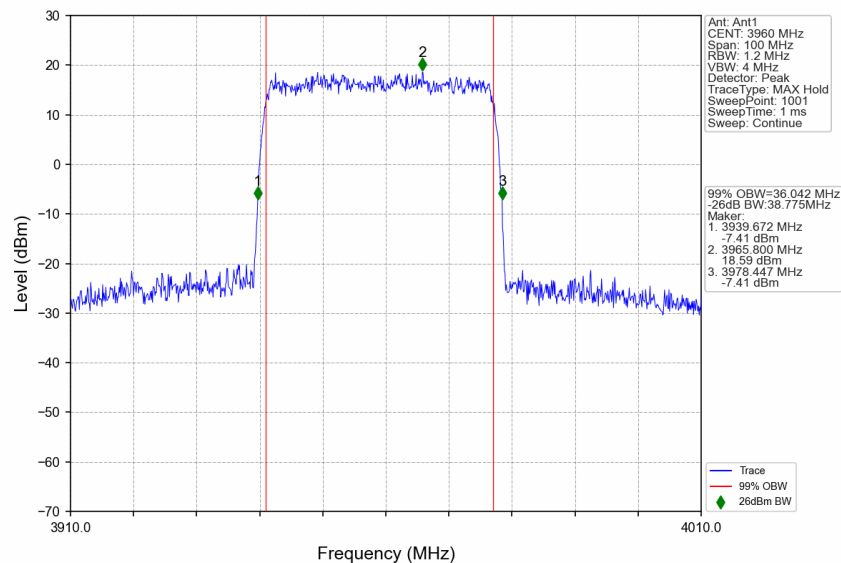
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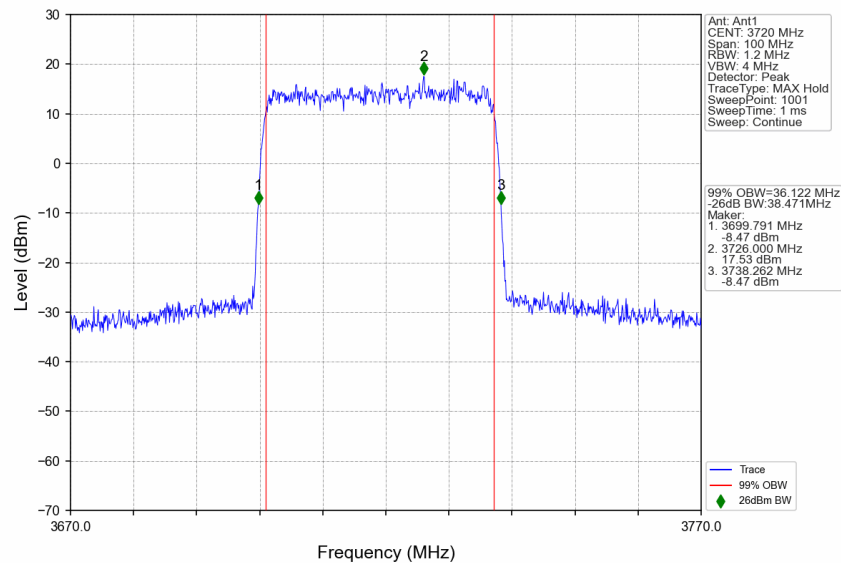
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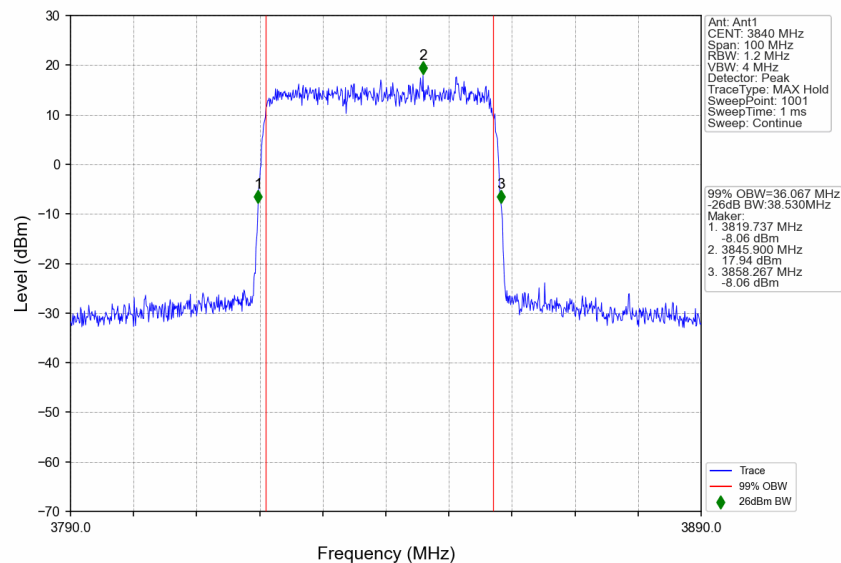
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n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3720MHz_Outer_Full



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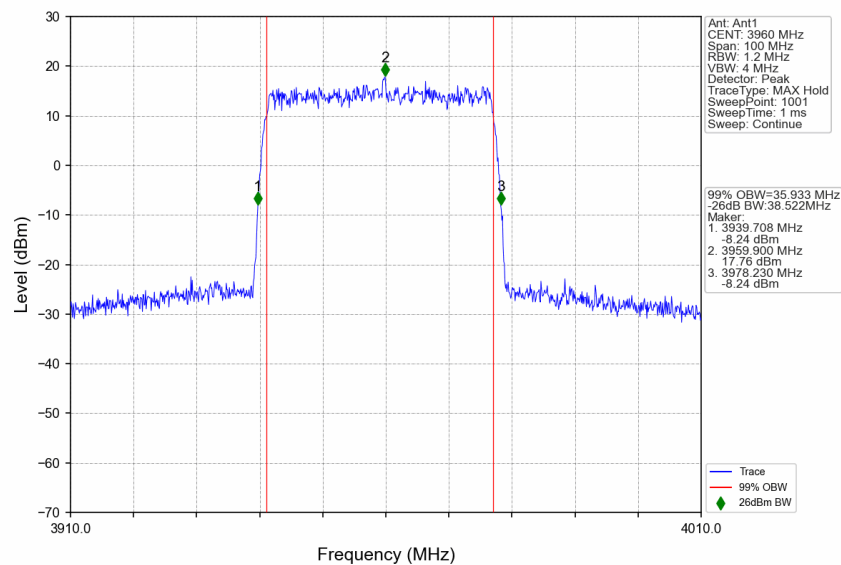
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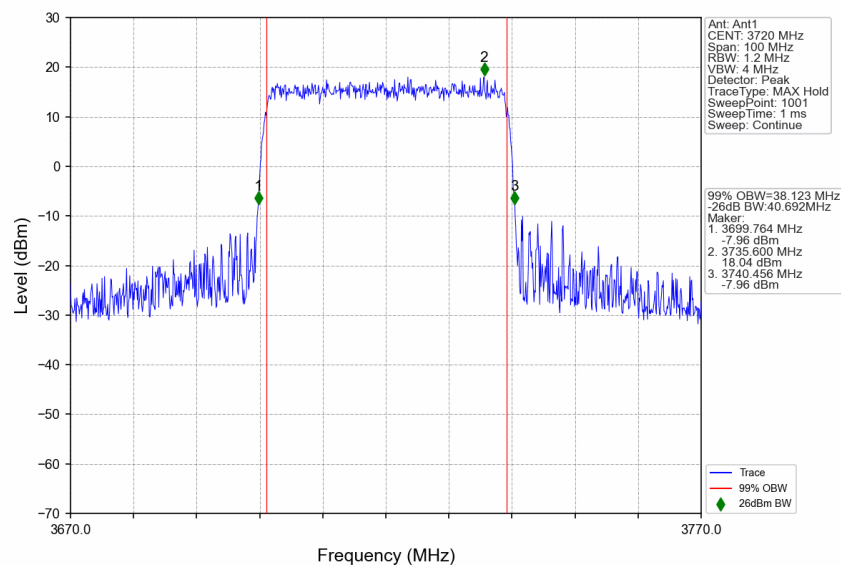
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3720MHz_Outer_Full



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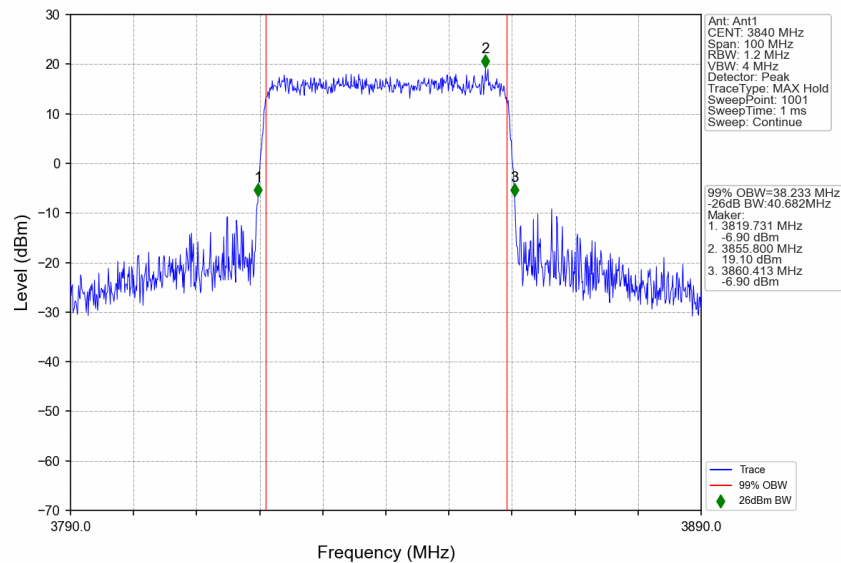
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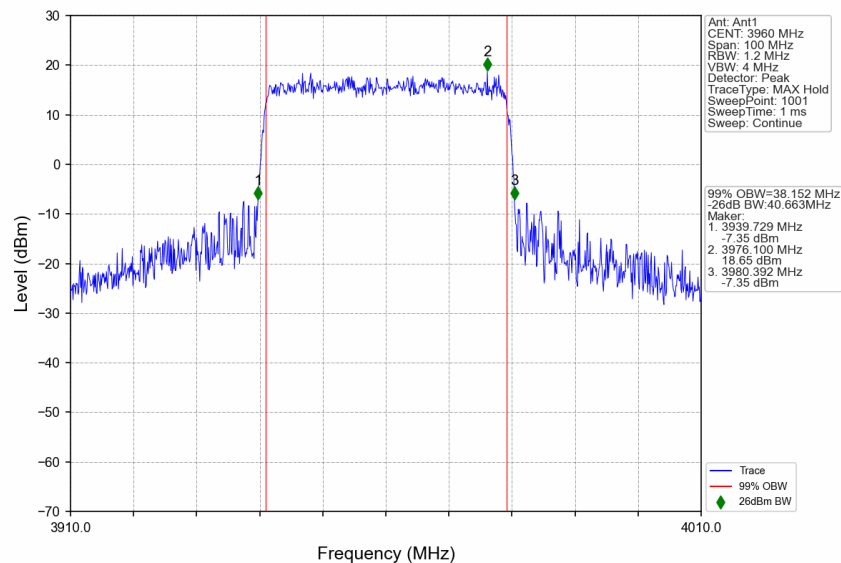
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3960MHz_Outer_Full



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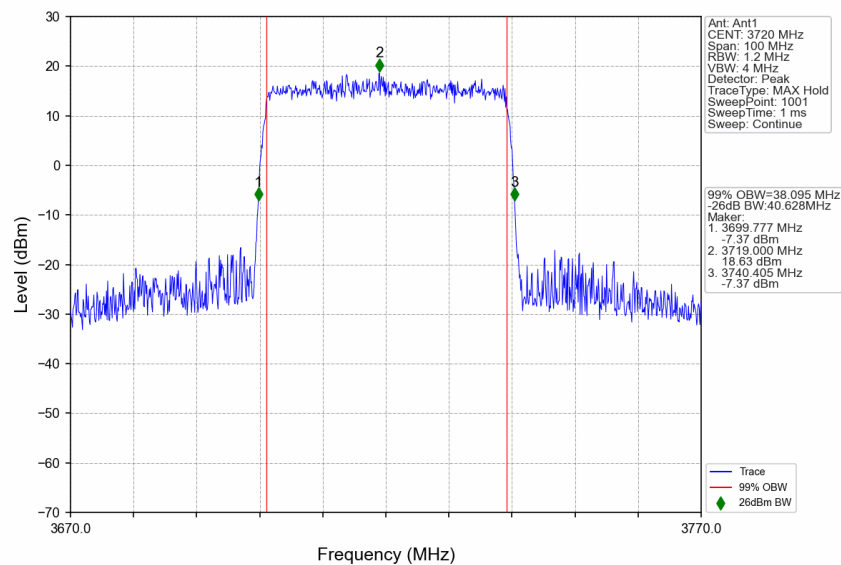
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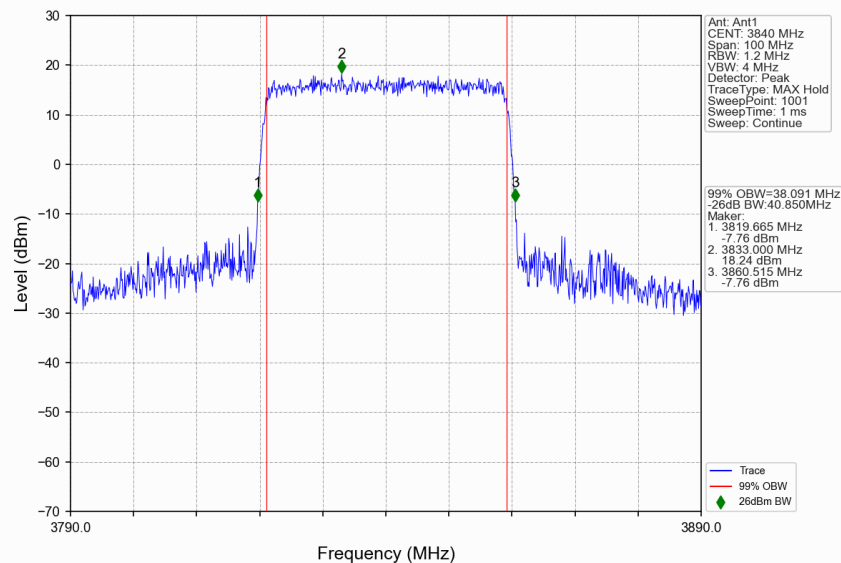
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3720MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full



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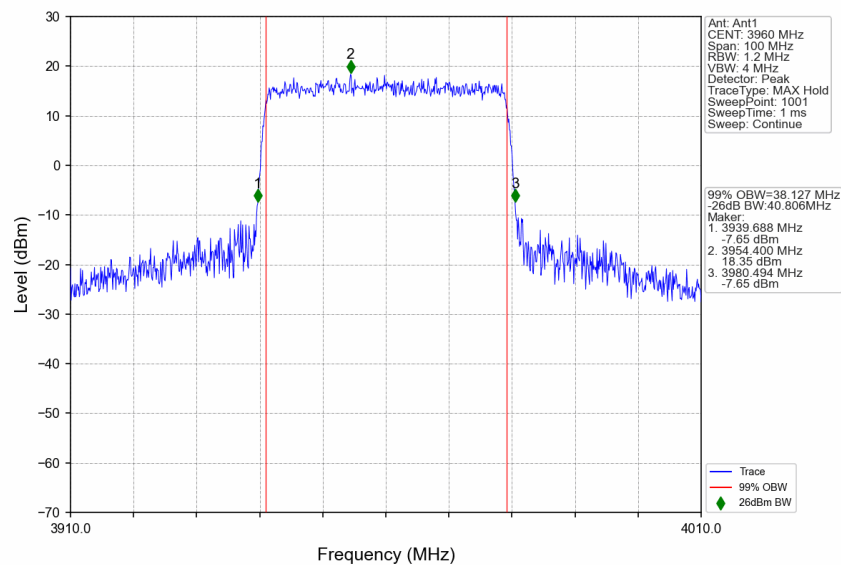
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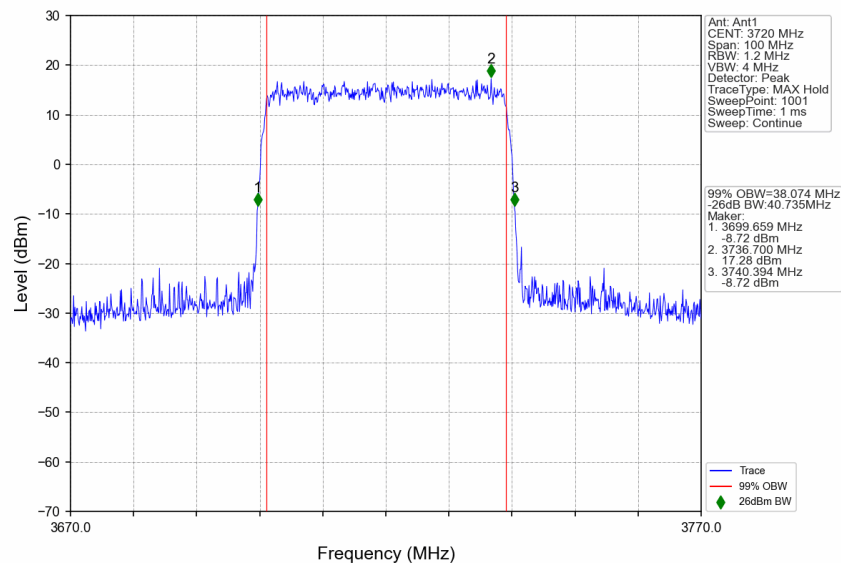
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_16 QAM_3960MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_64 QAM_3720MHz_Outer_Full



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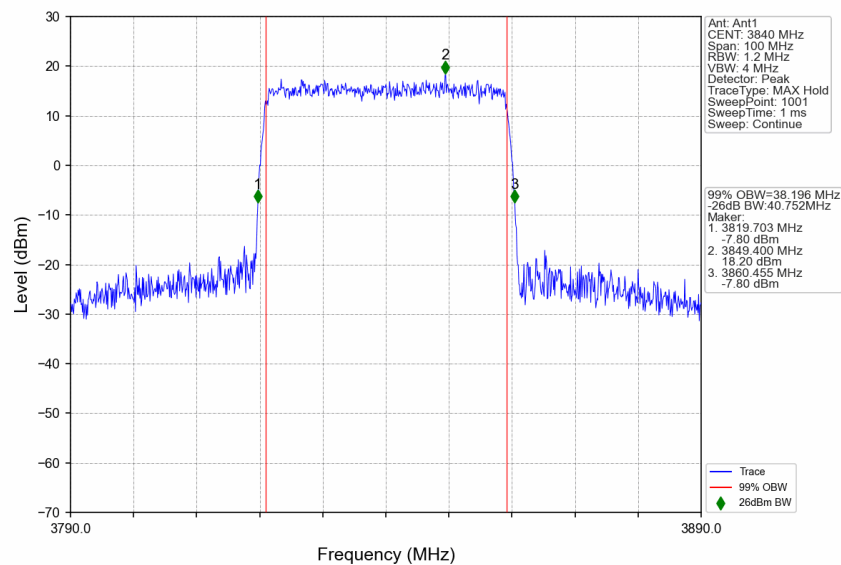
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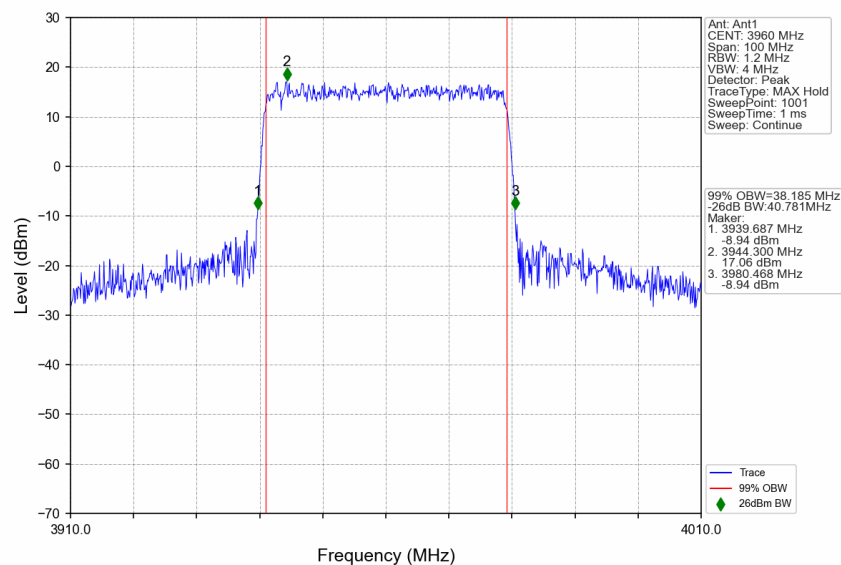
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_3960MHz_Outer_Full



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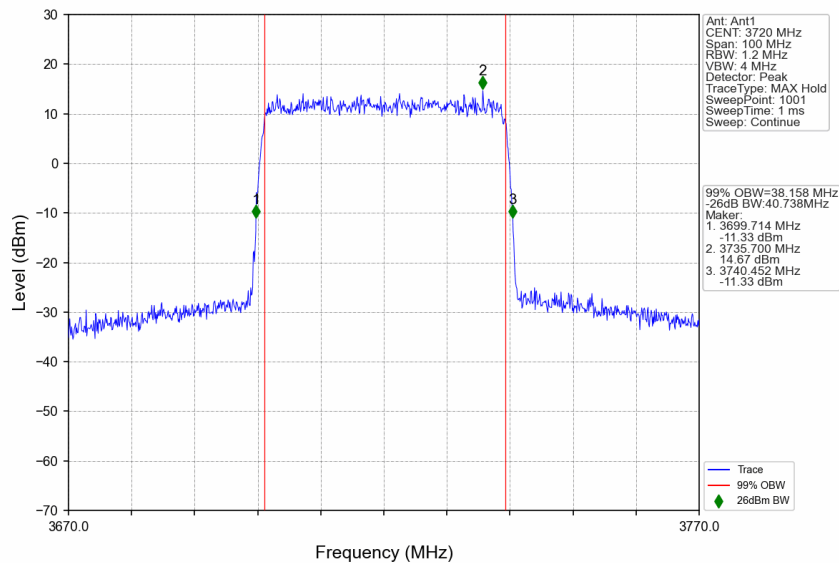
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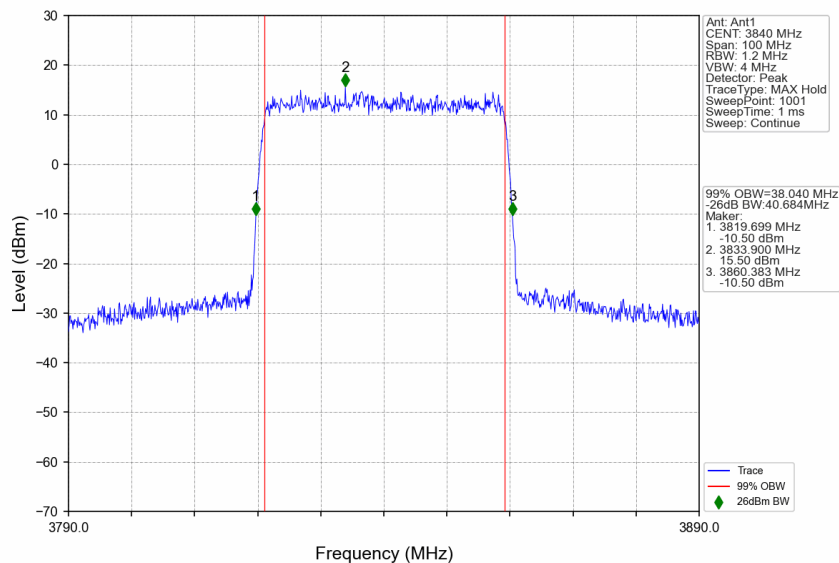
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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM 3720MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM 3840MHz_Outer_Full



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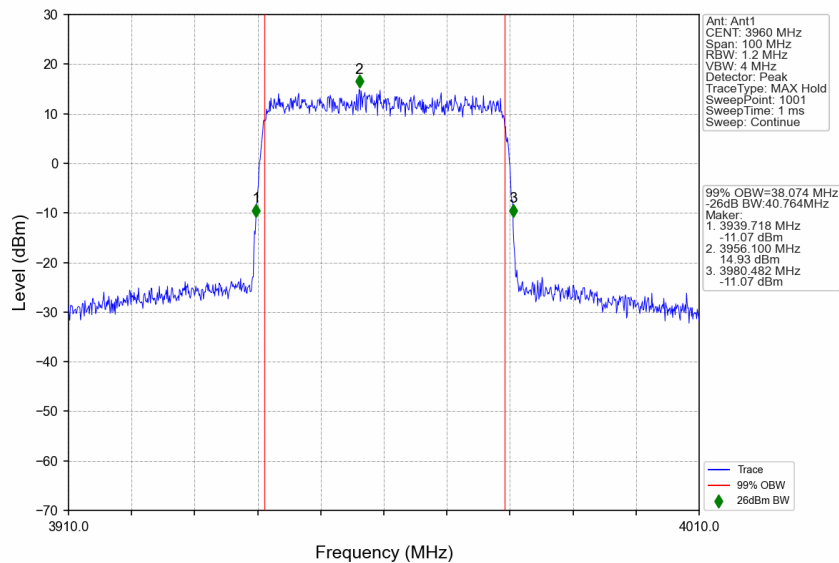
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4.14 30k_SISO_50MHz_NTNV

4.14.1 Test Result

5G NR n77a SCS=30kHz SISO 50MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.01	Outer Full	46.23	49.40	/	Pass
	3840	Outer Full	46.00	49.26	/	Pass
	3954.99	Outer Full	46.05	49.19	/	Pass
DFT-s-OFDM QPSK	3725.01	Outer Full	46.17	49.38	/	Pass
	3840	Outer Full	46.12	49.26	/	Pass
	3954.99	Outer Full	46.07	49.18	/	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer Full	46.02	49.36	/	Pass
	3840	Outer Full	46.04	49.18	/	Pass
	3954.99	Outer Full	46.01	49.30	/	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer Full	45.95	49.28	/	Pass
	3840	Outer Full	46.03	49.34	/	Pass
	3954.99	Outer Full	46.04	49.24	/	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer Full	46.19	49.13	/	Pass
	3840	Outer Full	45.93	49.39	/	Pass
	3954.99	Outer Full	46.09	49.24	/	Pass
CP-OFDM QPSK	3725.01	Outer Full	47.60	51.08	/	Pass
	3840	Outer Full	47.76	51.35	/	Pass
	3954.99	Outer Full	47.77	50.95	/	Pass
CP-OFDM 16 QAM	3725.01	Outer Full	47.82	50.92	/	Pass
	3840	Outer Full	47.85	51.02	/	Pass
	3954.99	Outer Full	47.89	51.00	/	Pass
CP-OFDM 64 QAM	3725.01	Outer Full	47.99	51.09	/	Pass
	3840	Outer Full	47.76	51.11	/	Pass
	3954.99	Outer Full	47.76	51.14	/	Pass
CP-OFDM 256 QAM	3725.01	Outer Full	47.85	51.09	/	Pass
	3840	Outer Full	47.67	50.94	/	Pass
	3954.99	Outer Full	47.73	51.02	/	Pass



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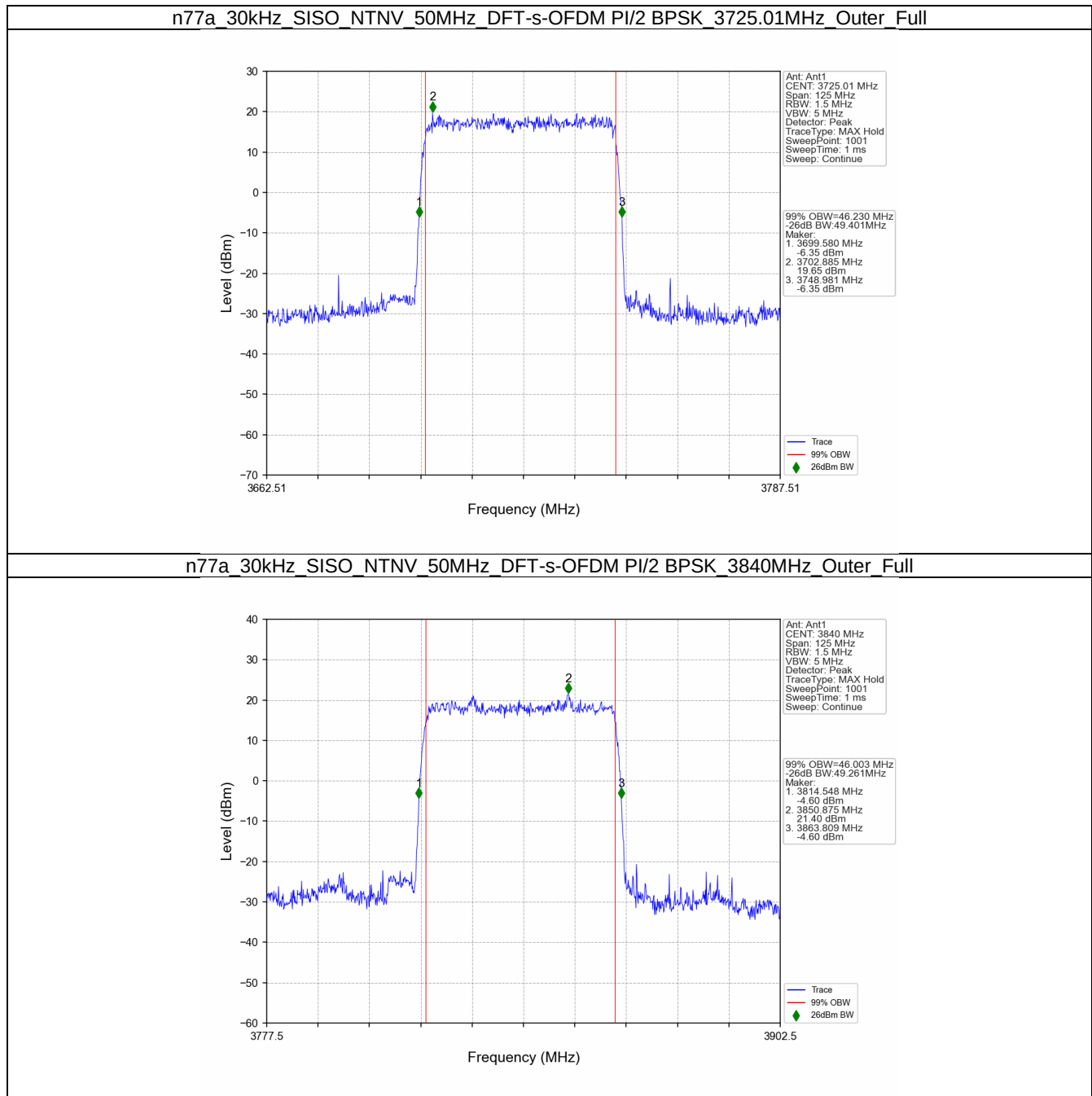
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4.14.2 Test Graph



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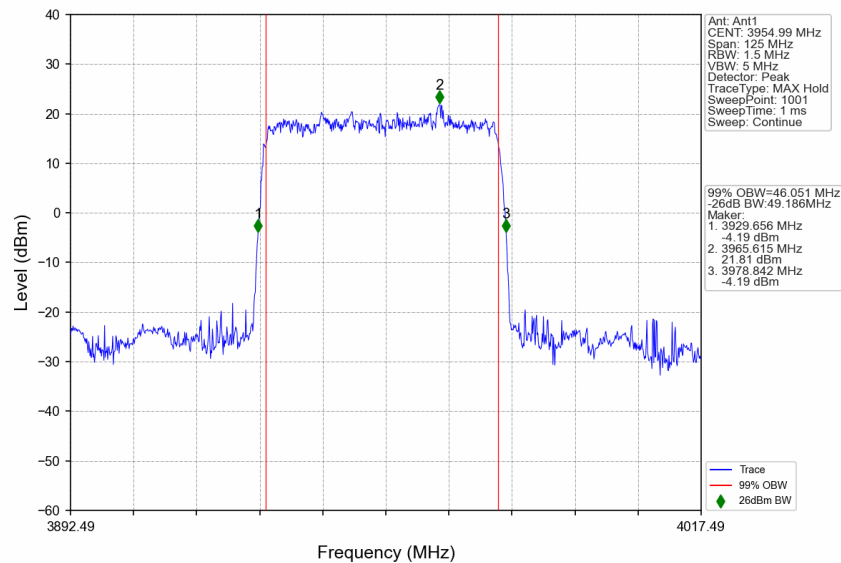
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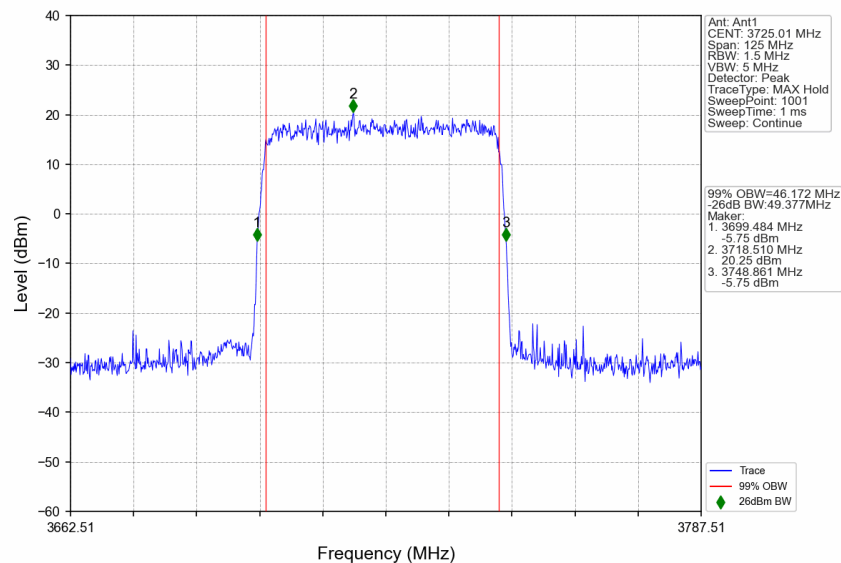
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3725.01MHz_Outer_Full



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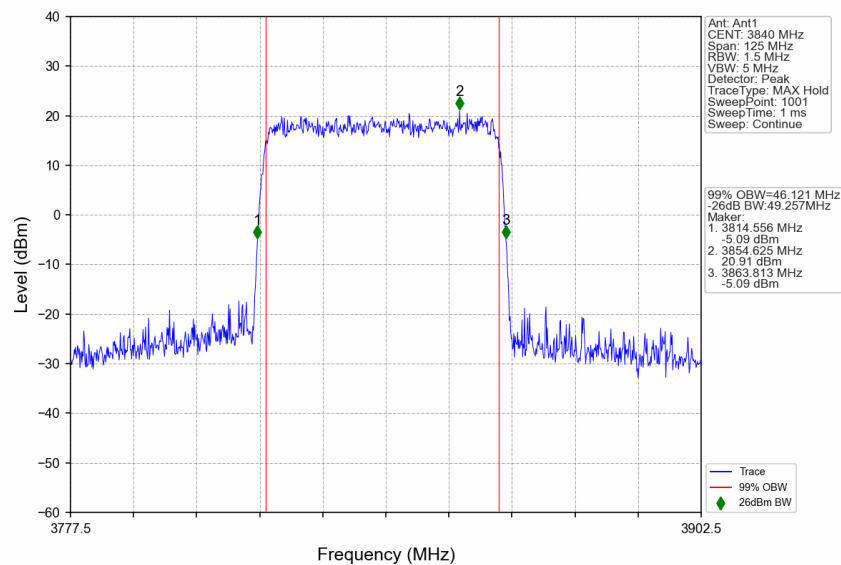
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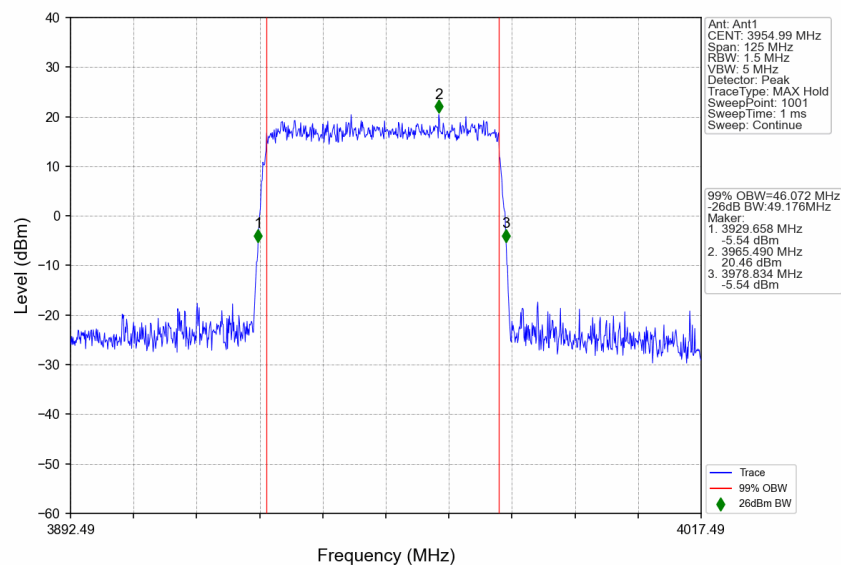
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3954.99MHz_Outer_Full



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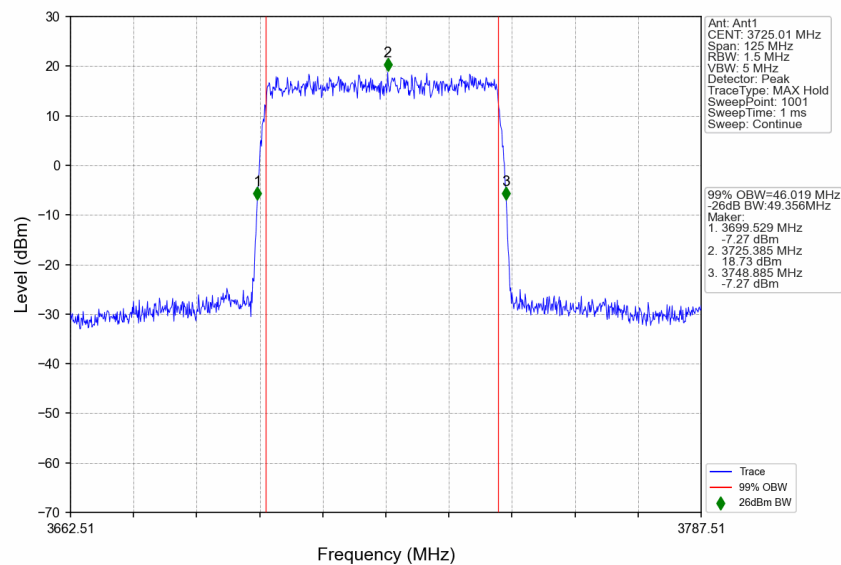
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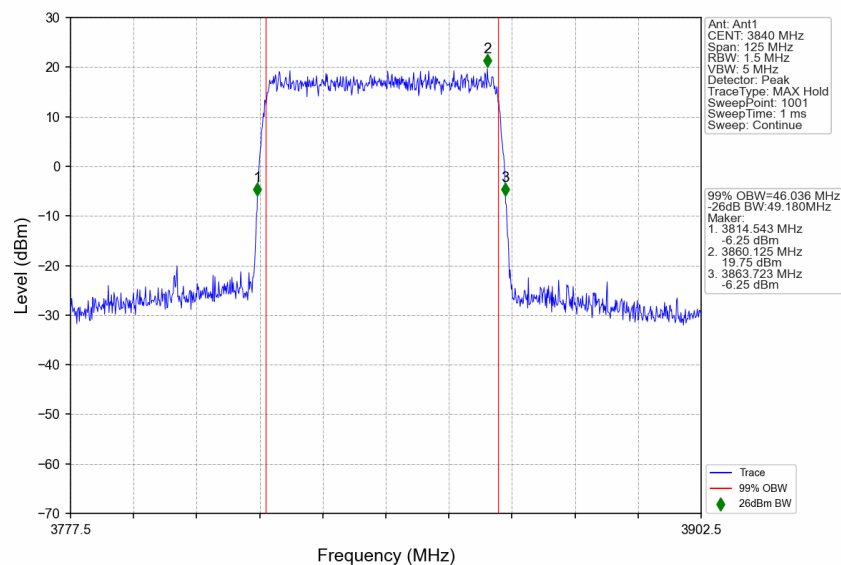
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3725.01MHz_Outer_Full



n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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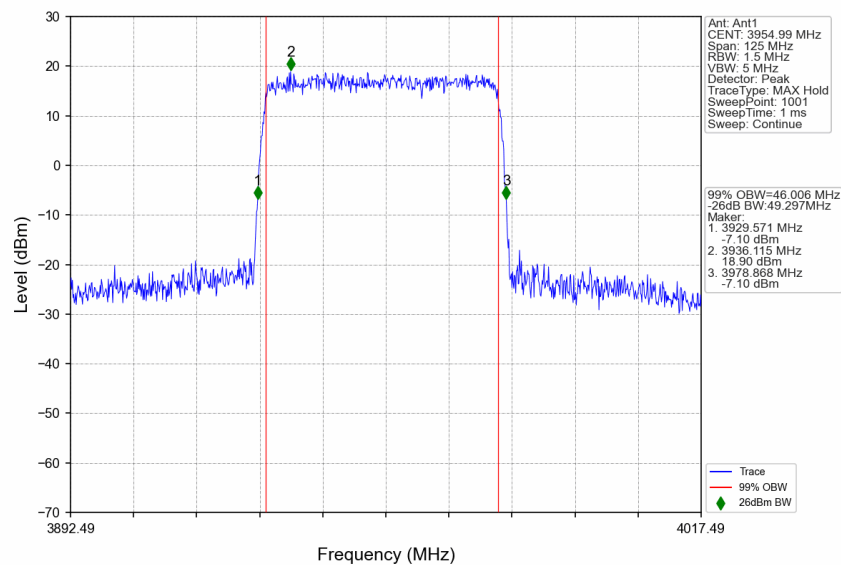
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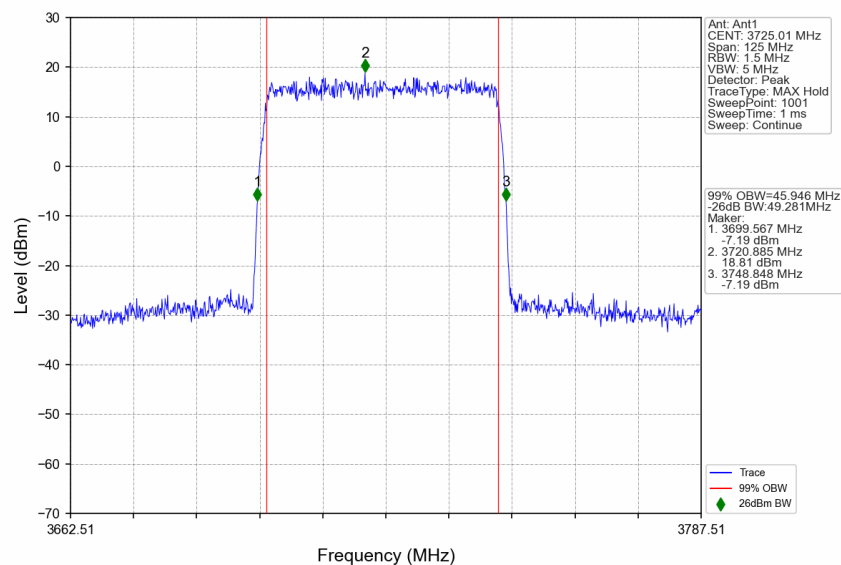
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3725.01MHz_Outer_Full



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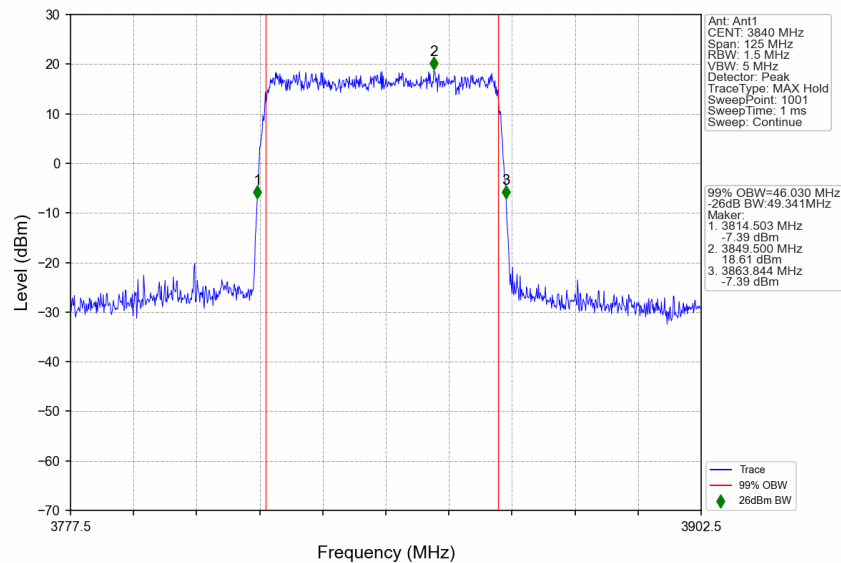
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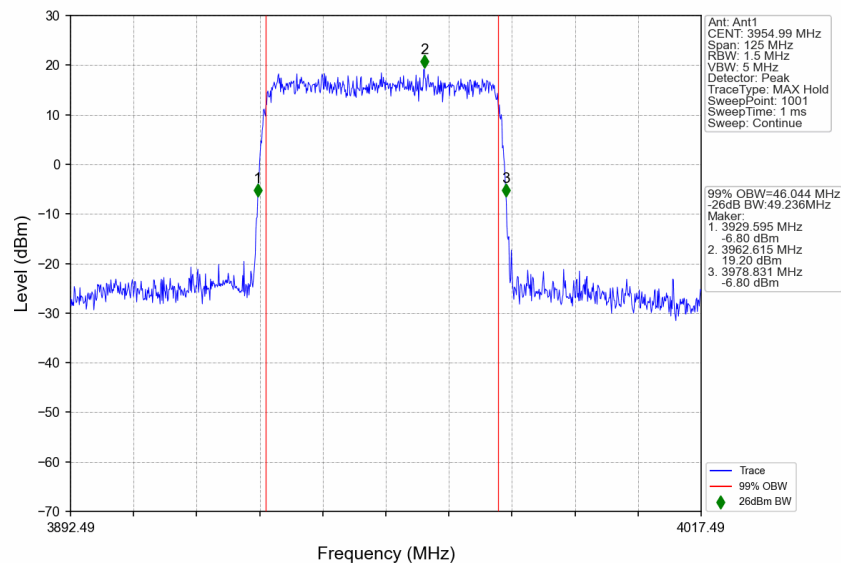
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3954.99MHz_Outer_Full



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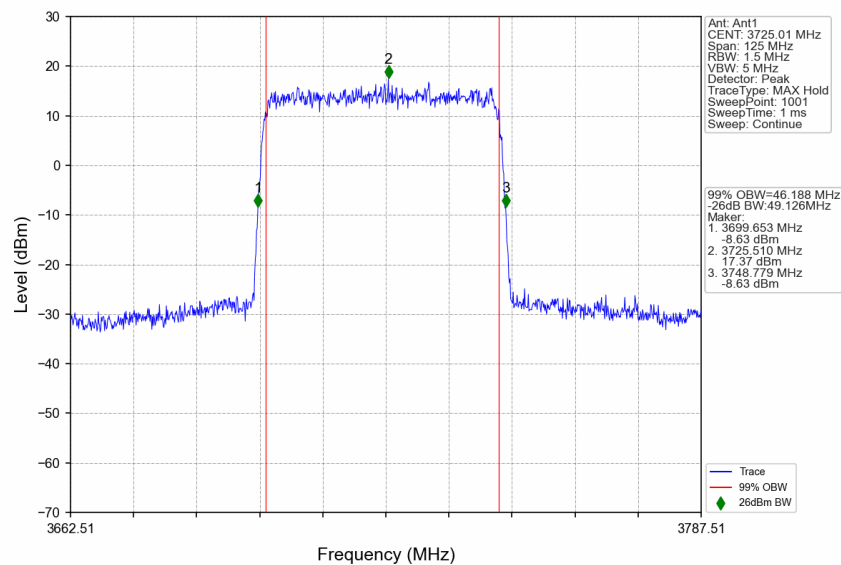
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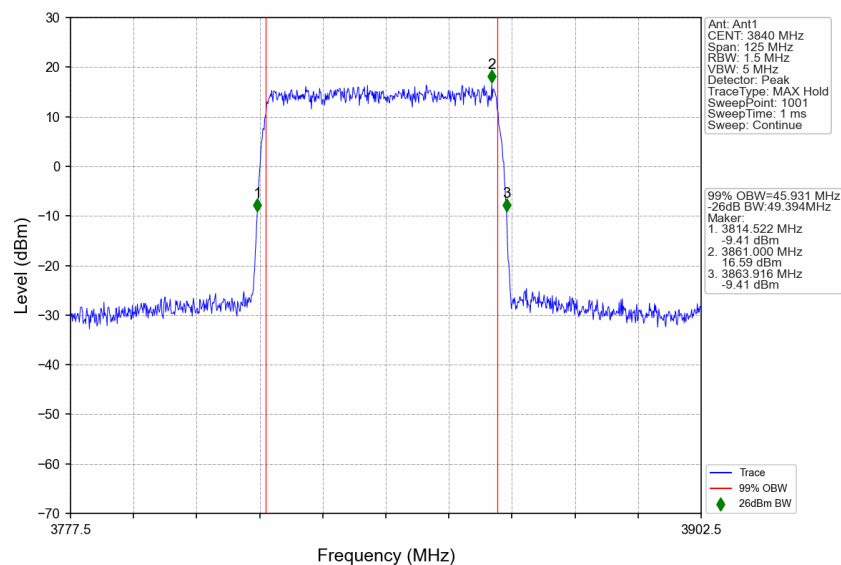
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n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3725.01MHz_Outer_Full



n77a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full



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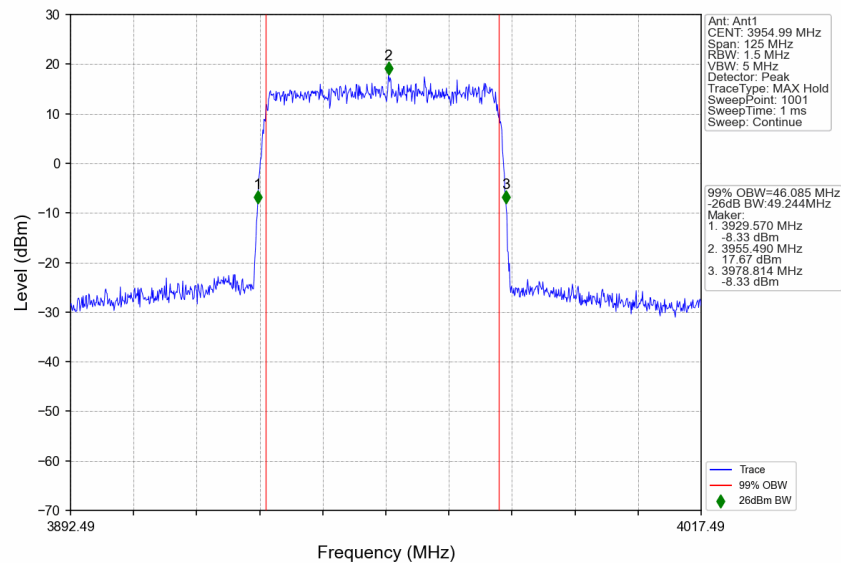
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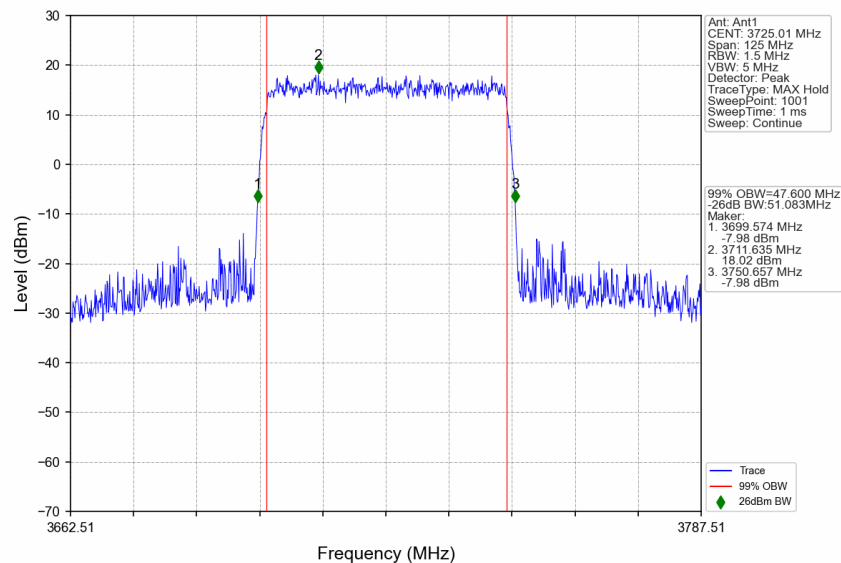
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n77a_30kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_3725.01MHz_Outer_Full



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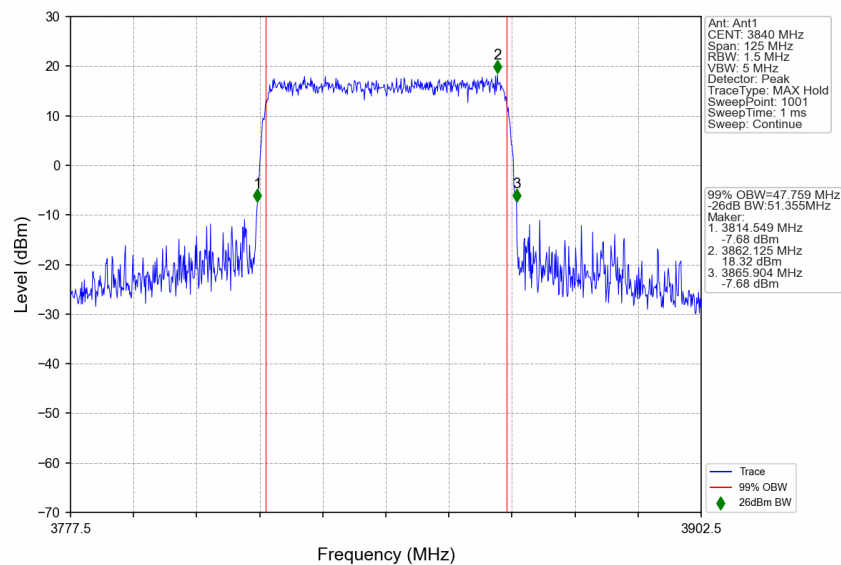
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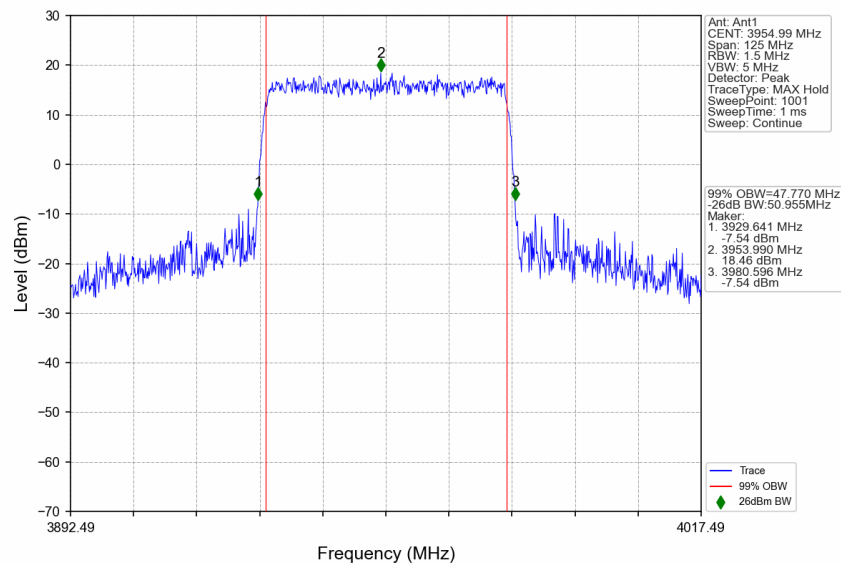
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n77a_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3954.99MHz_Outer_Full



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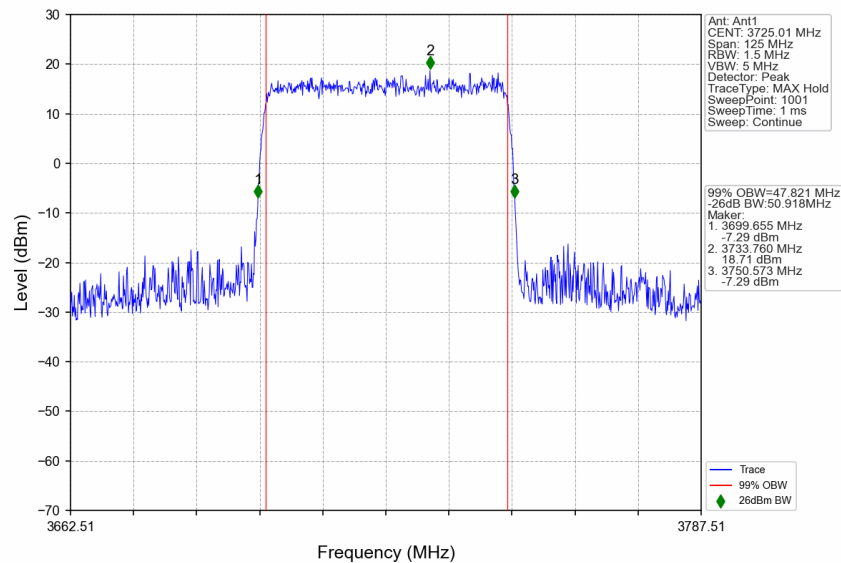
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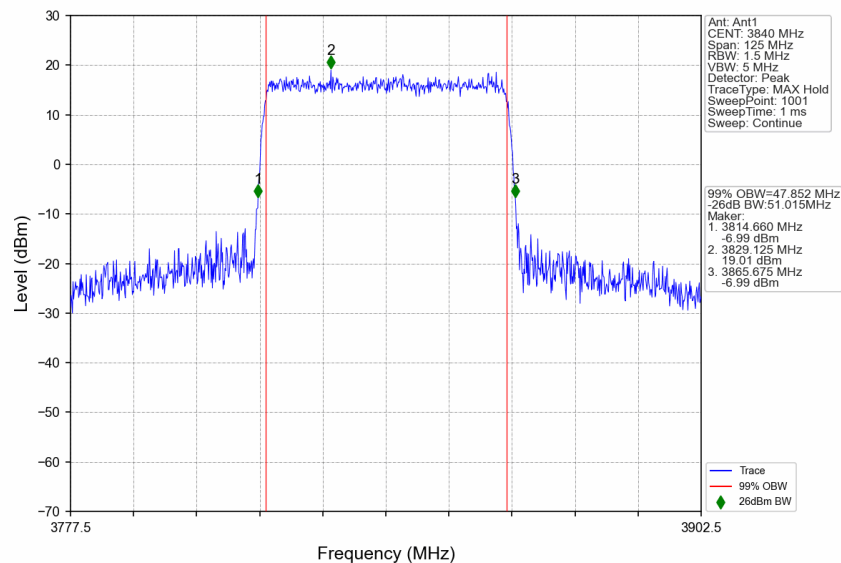
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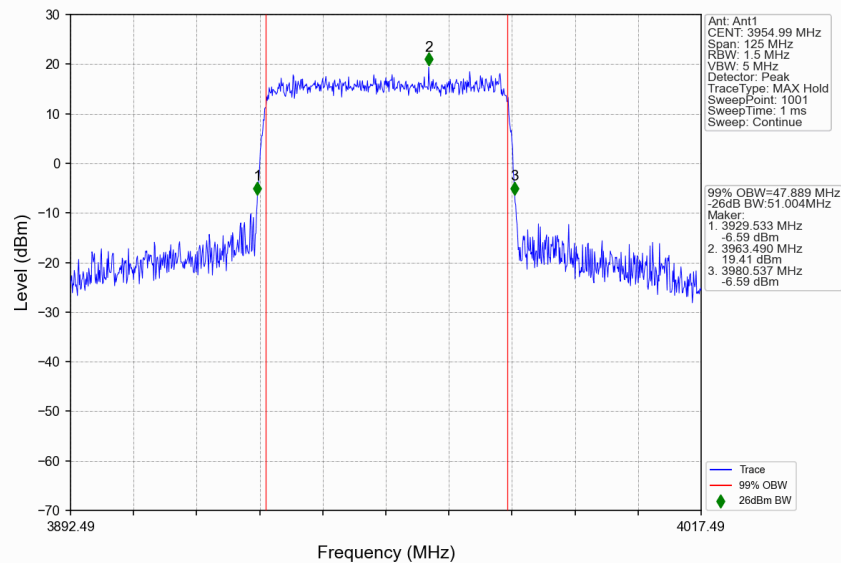
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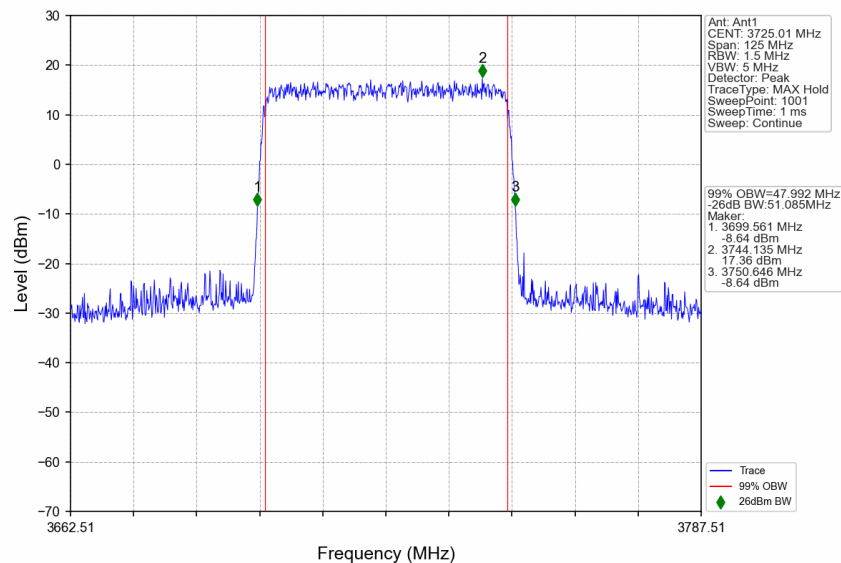
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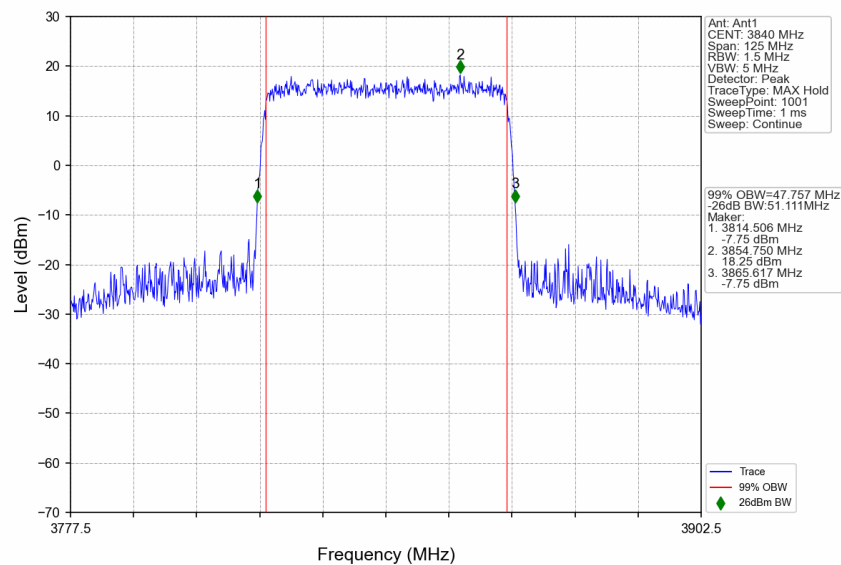
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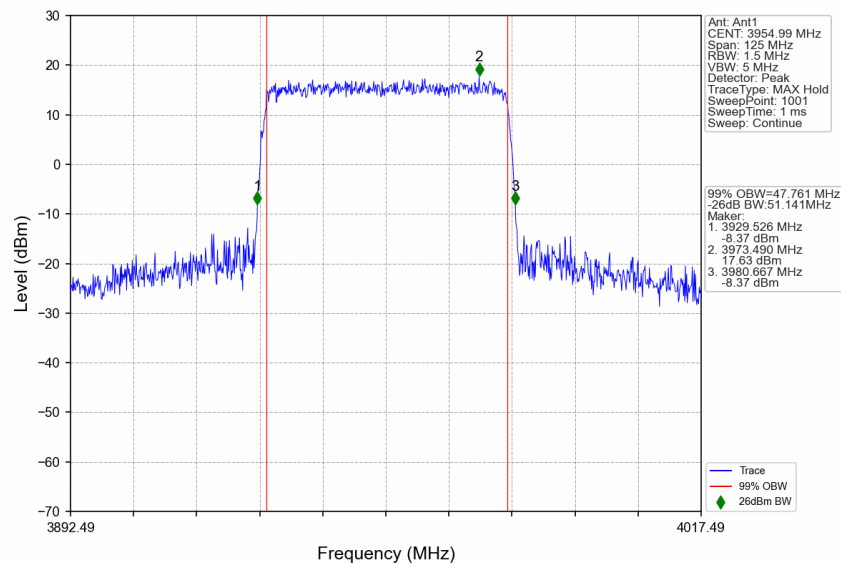
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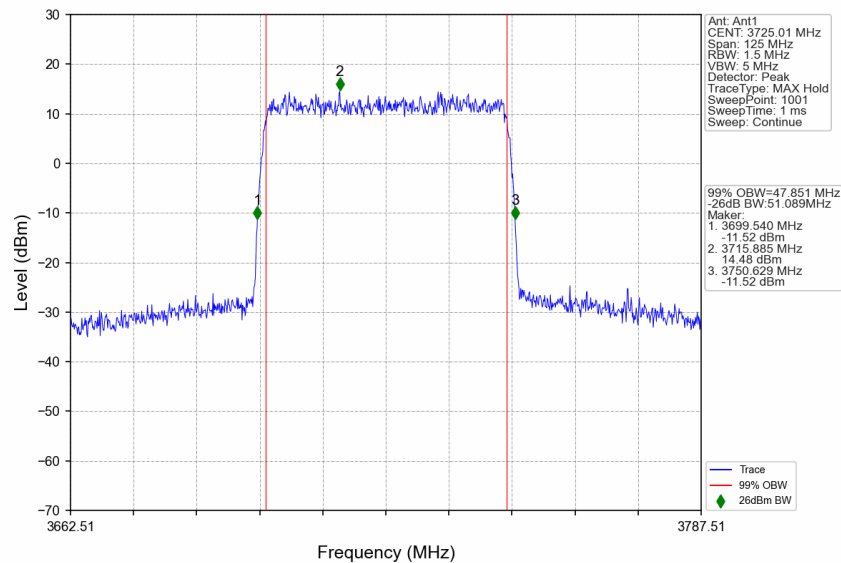
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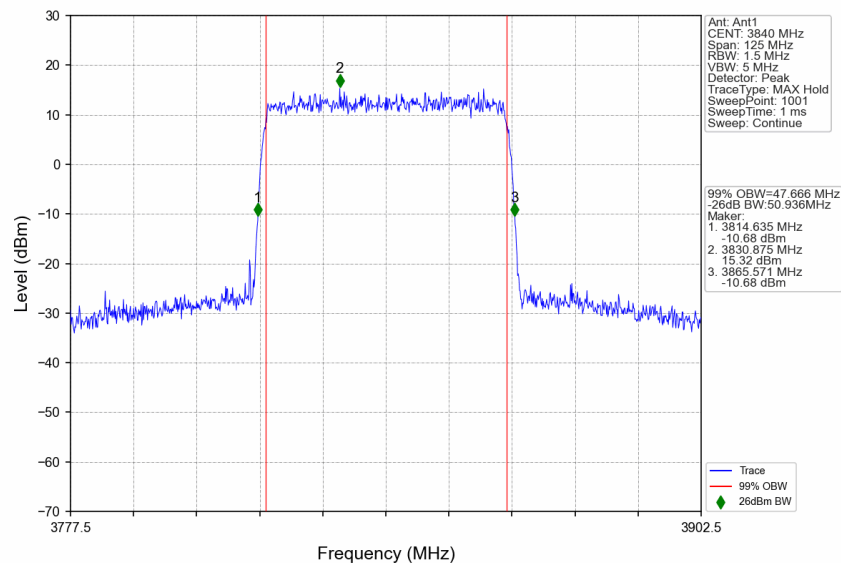
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