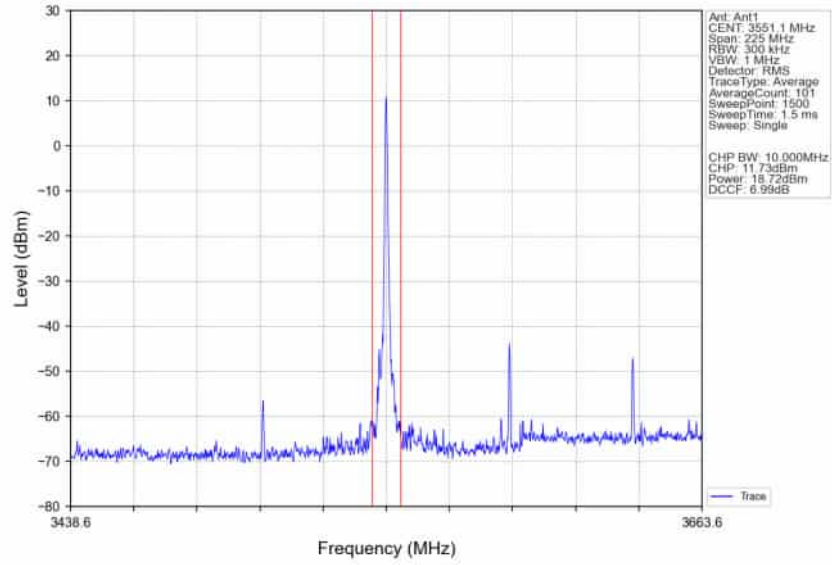
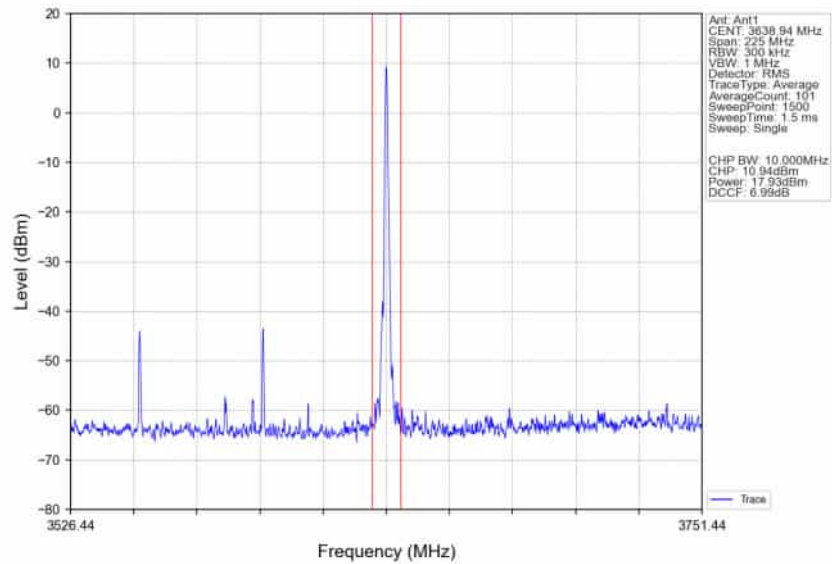


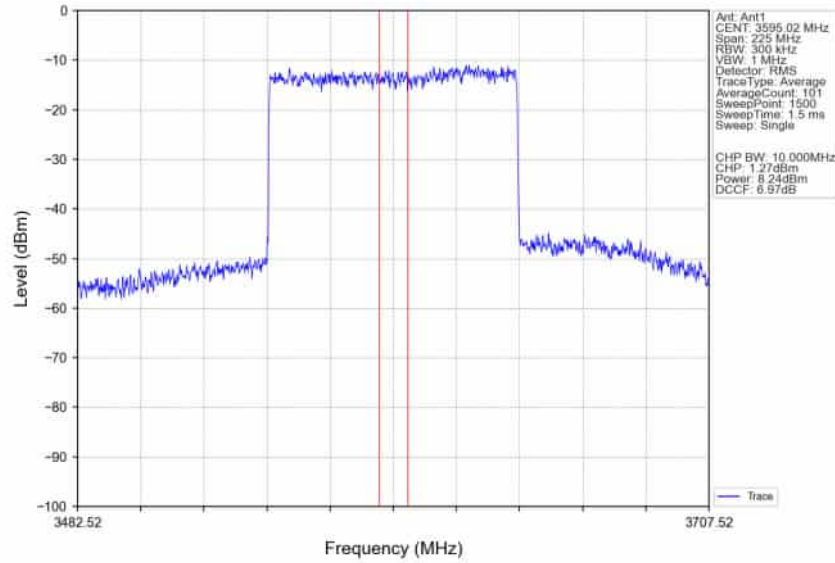
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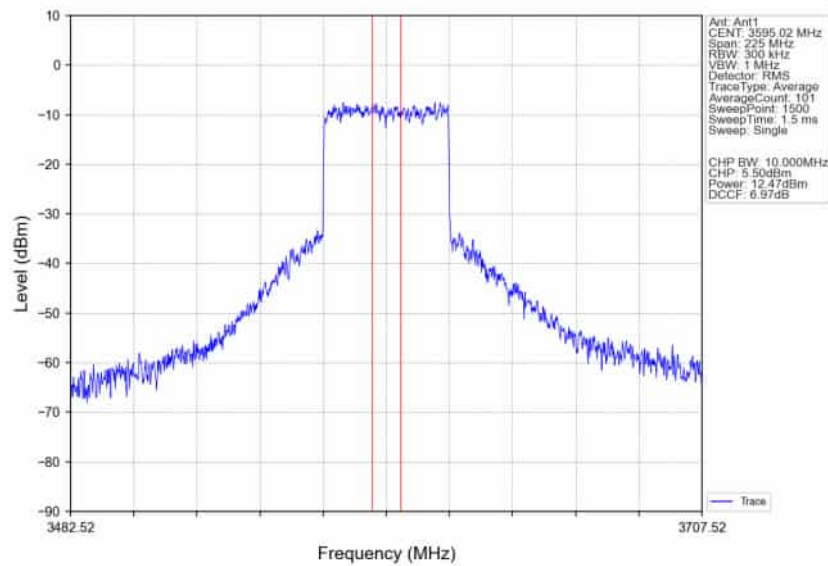
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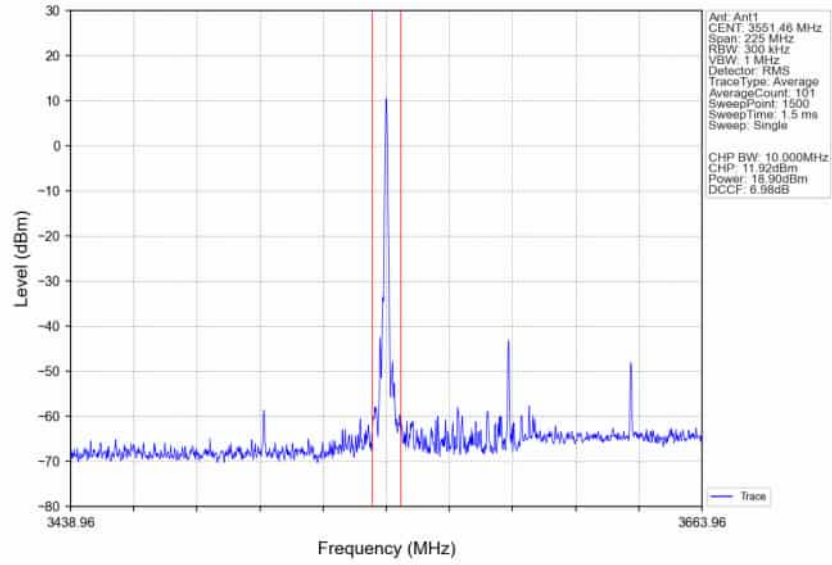
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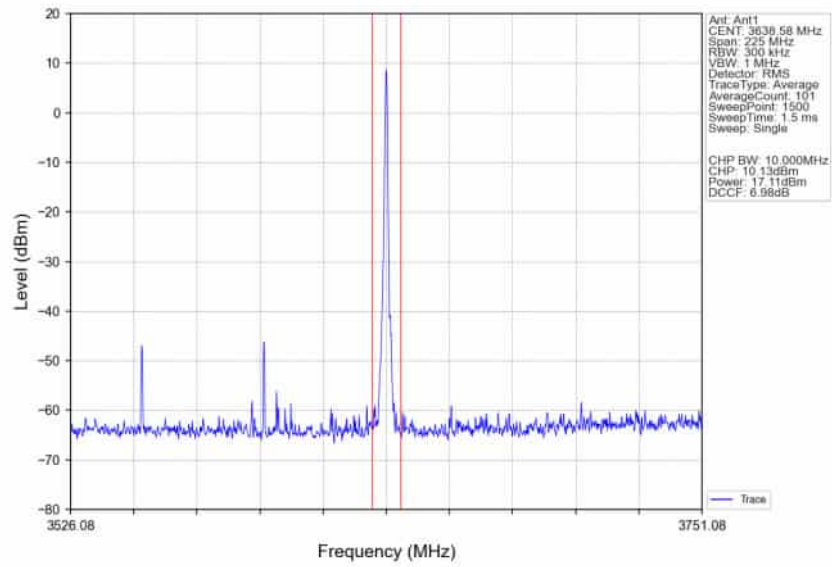
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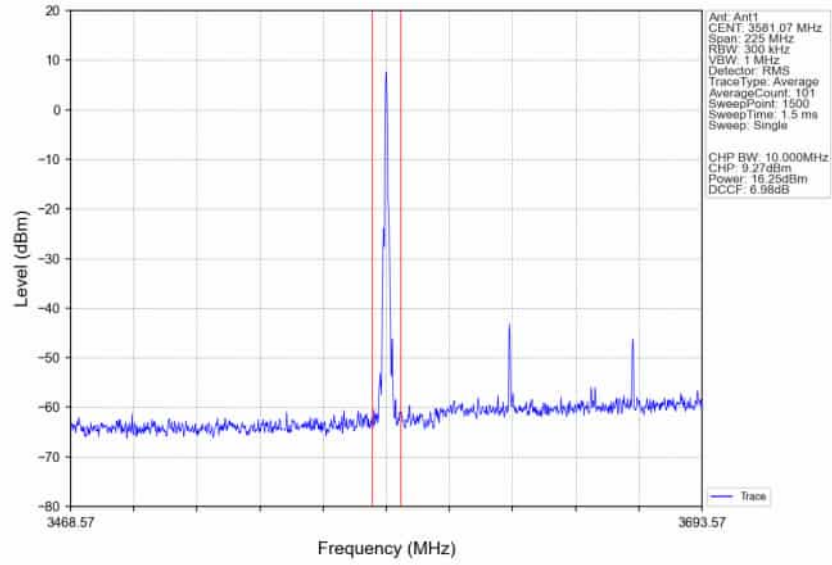
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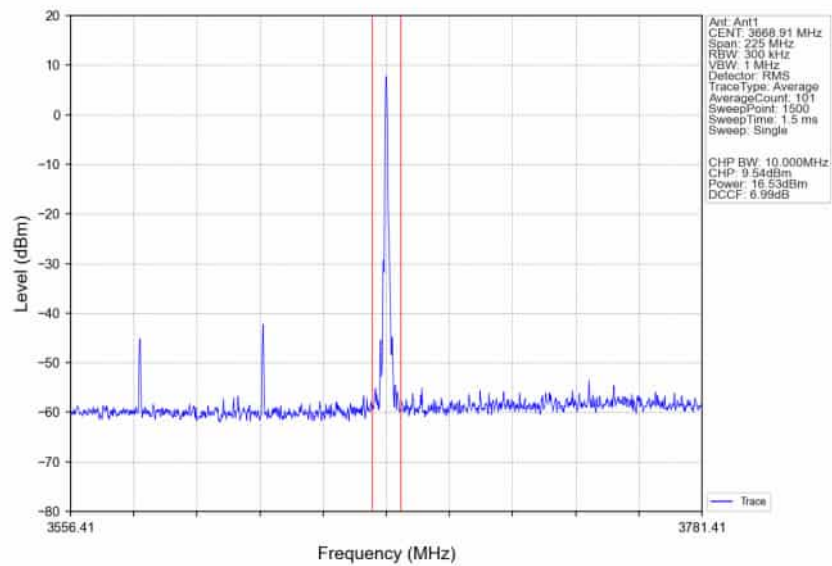
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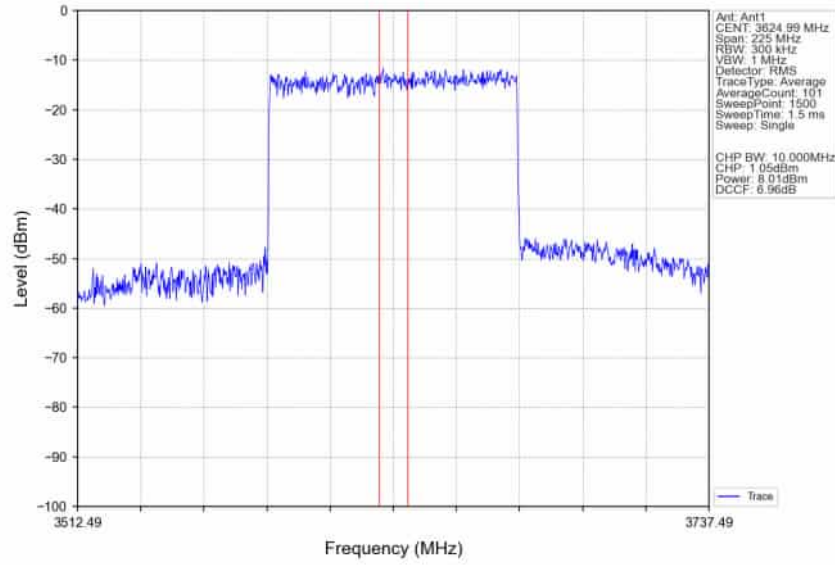
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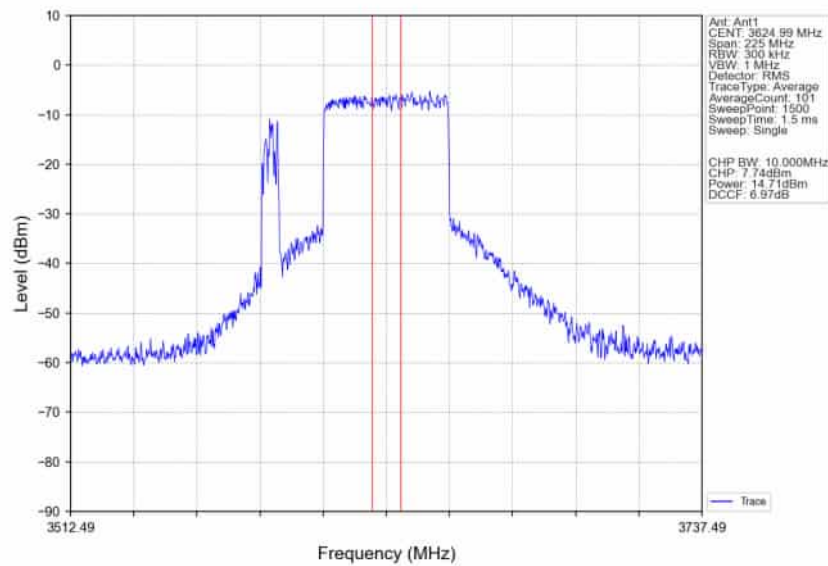
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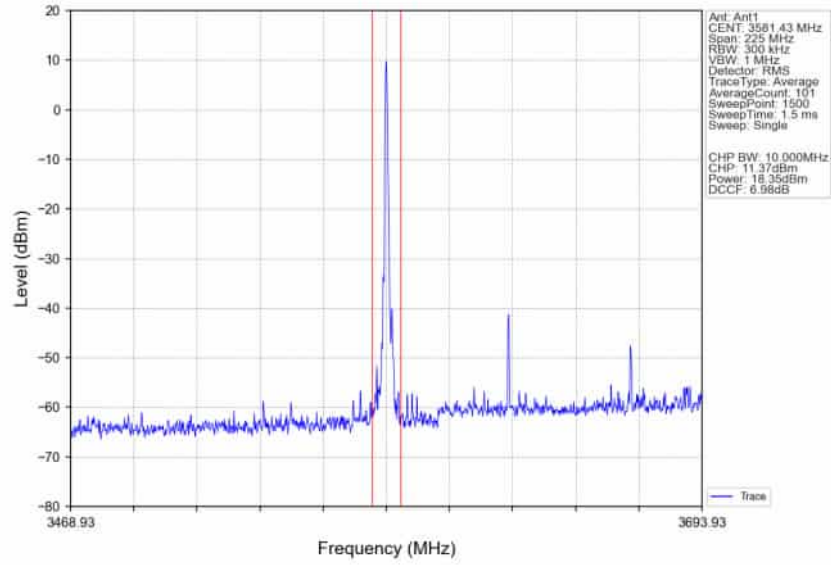
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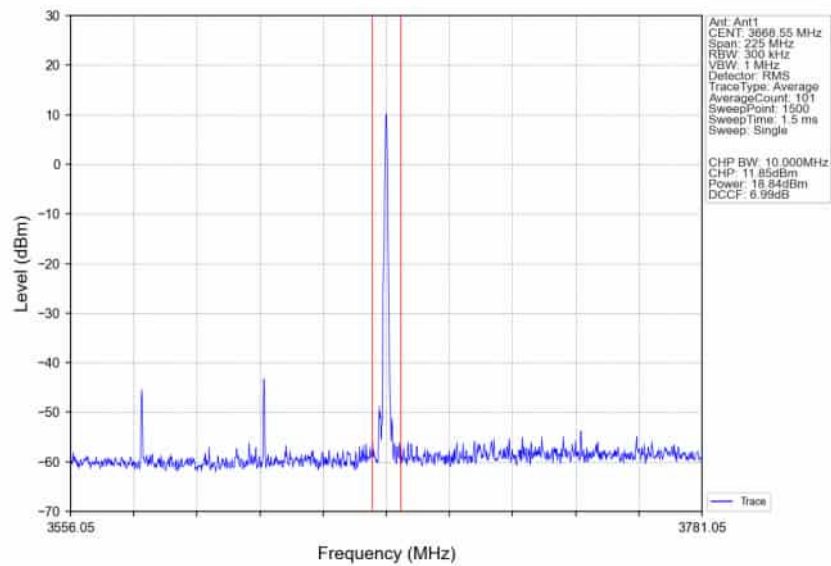
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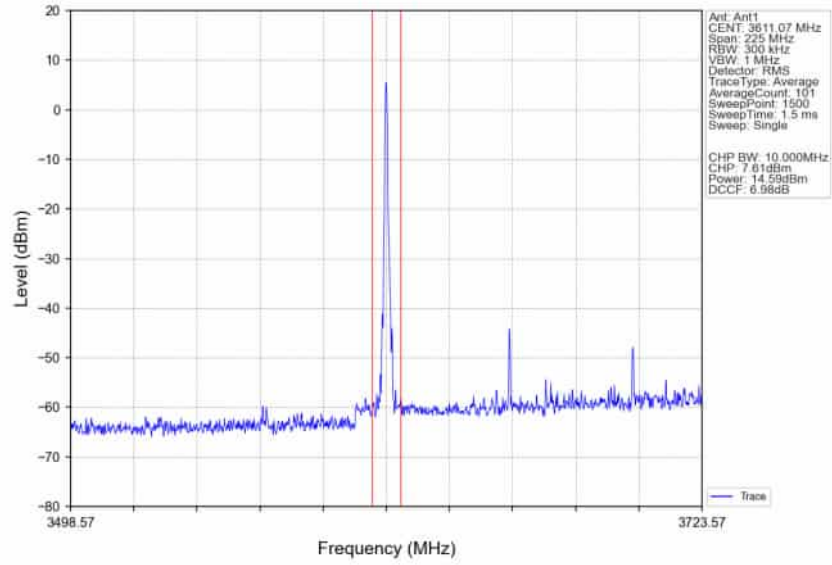
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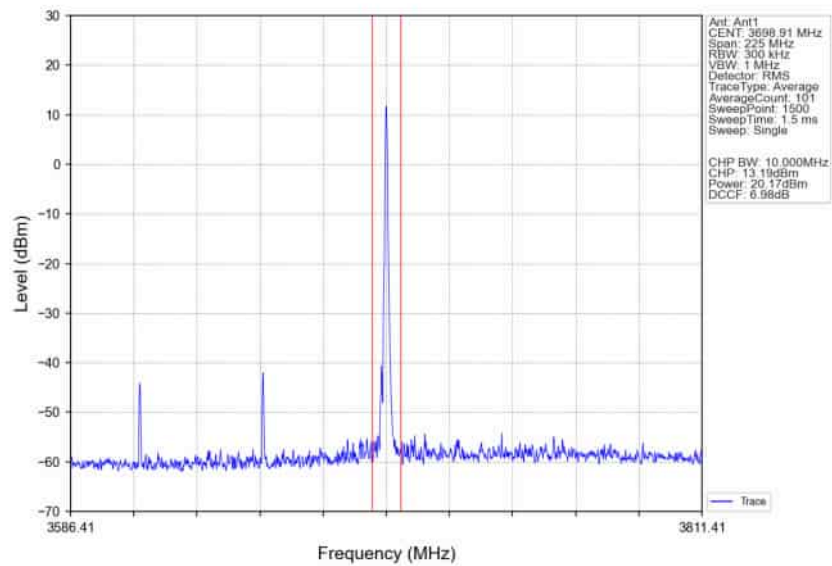
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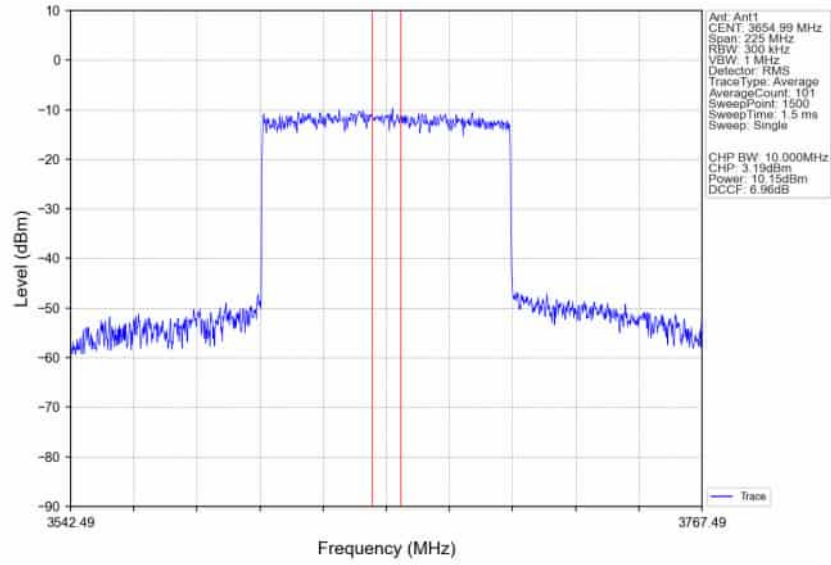
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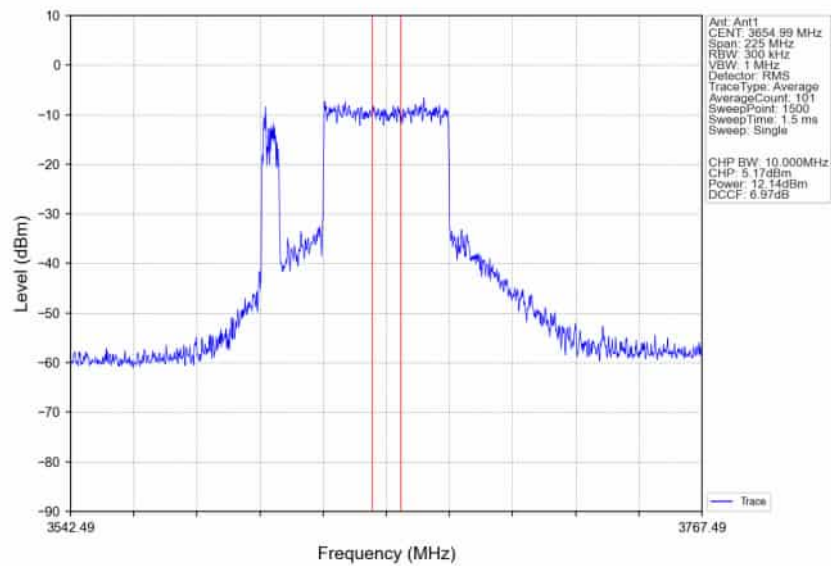
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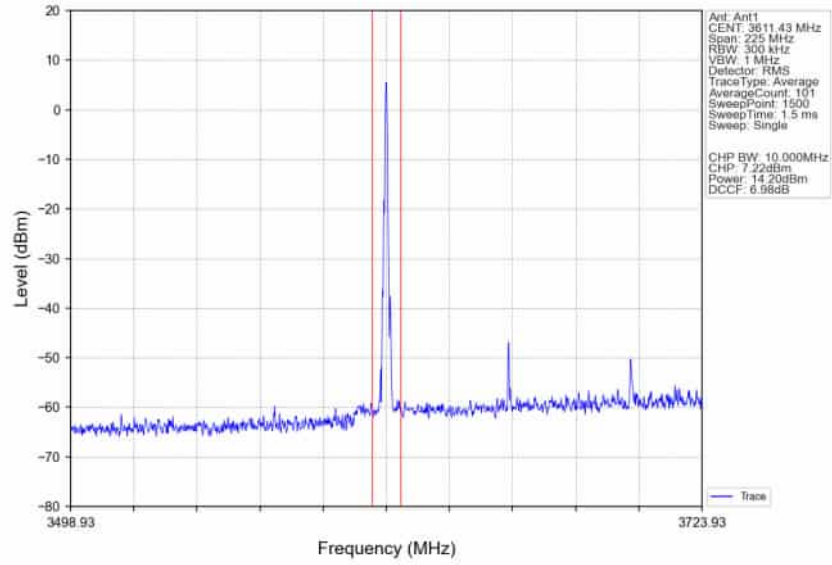
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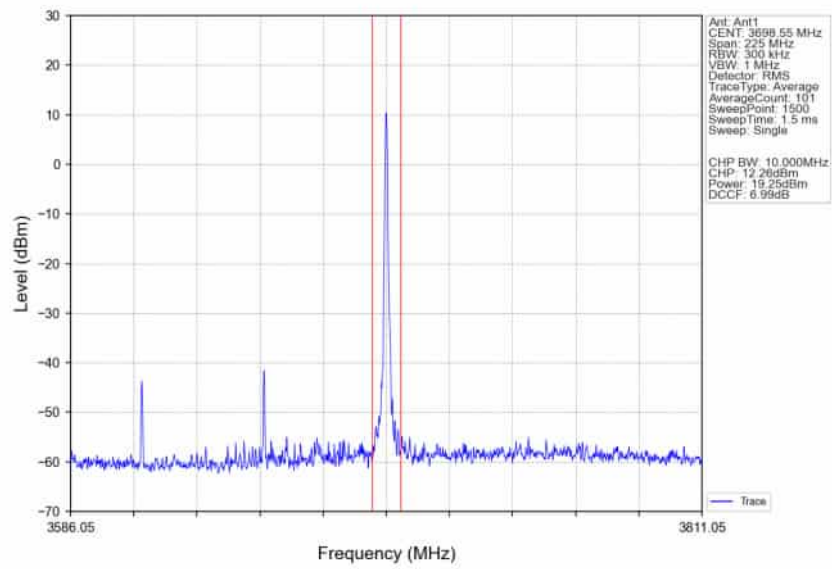
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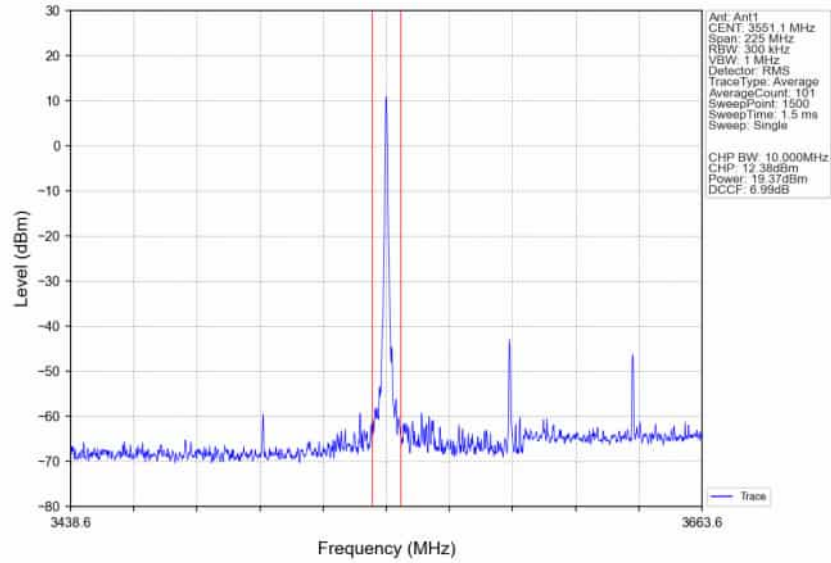
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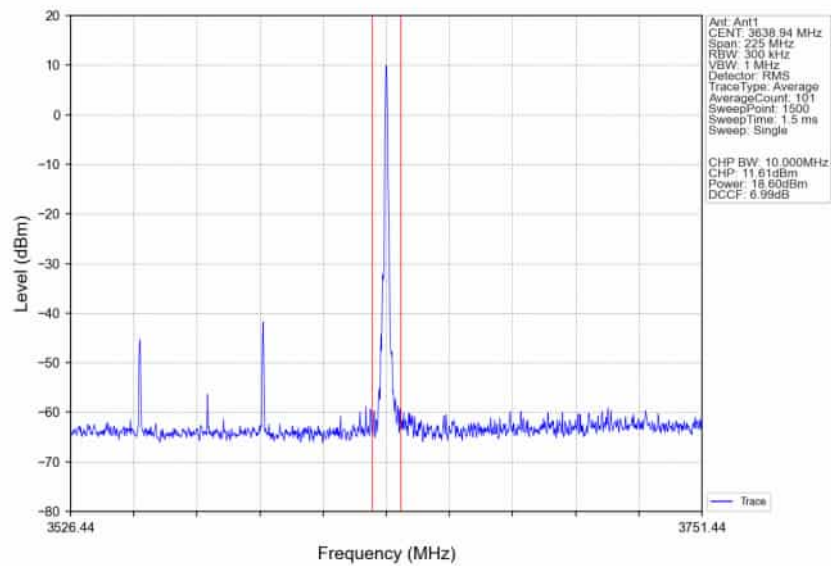
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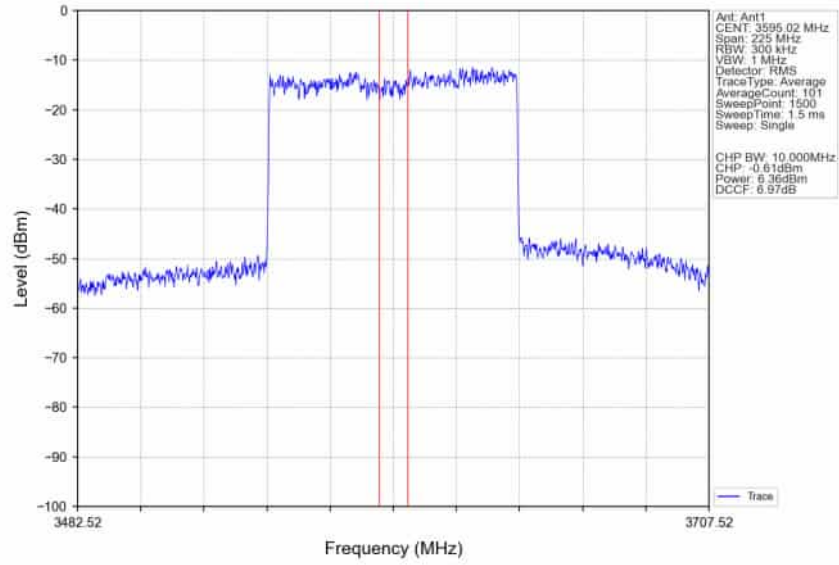
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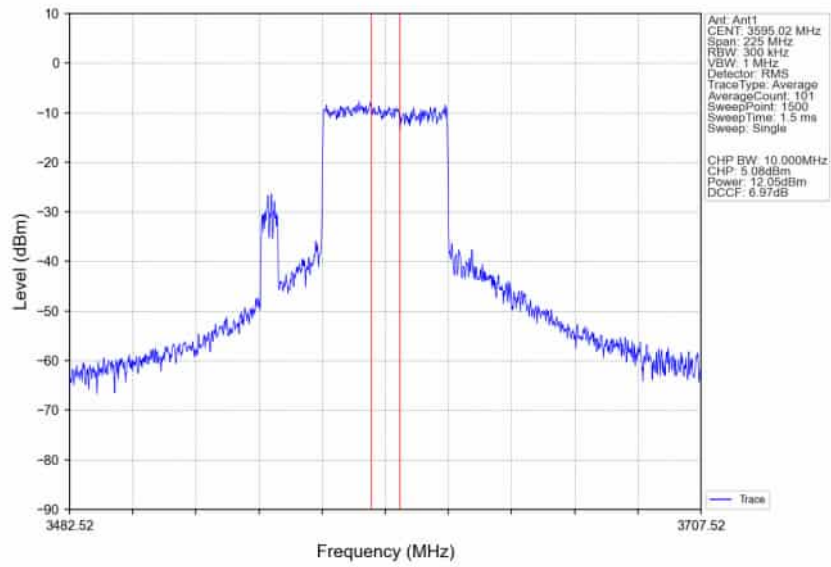
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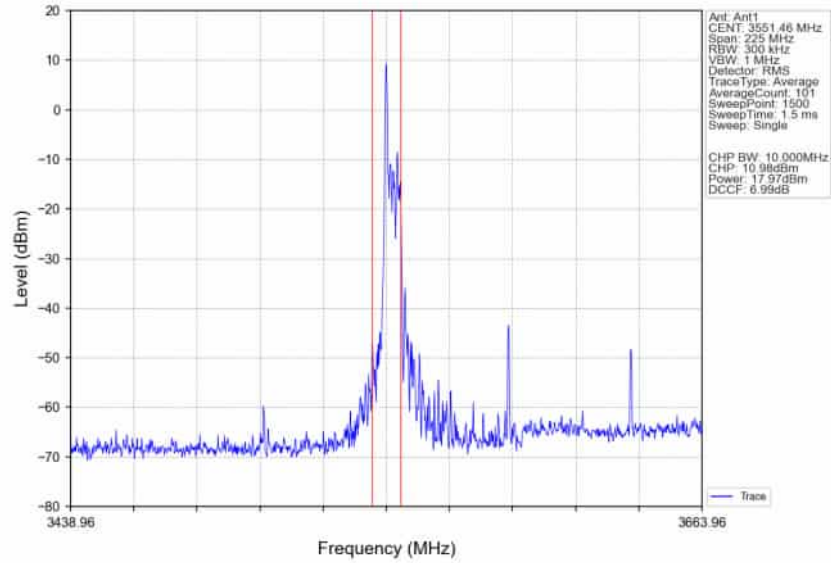
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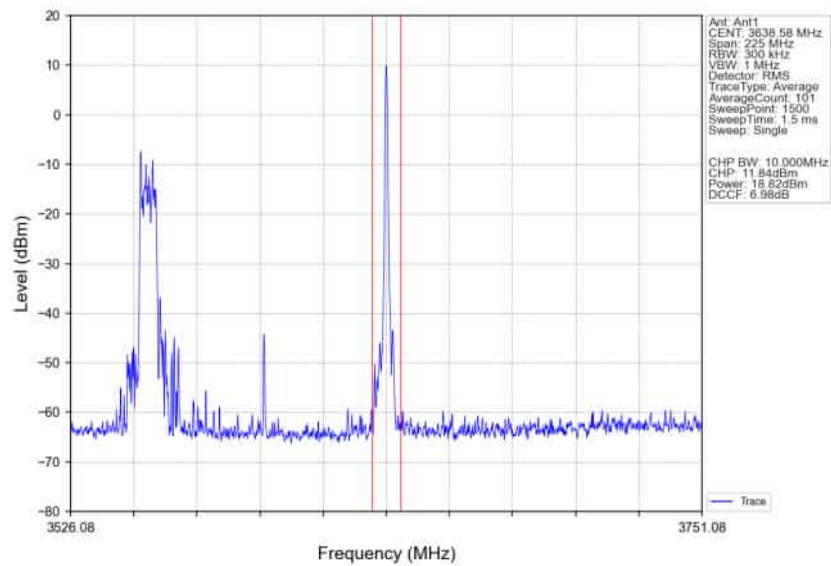
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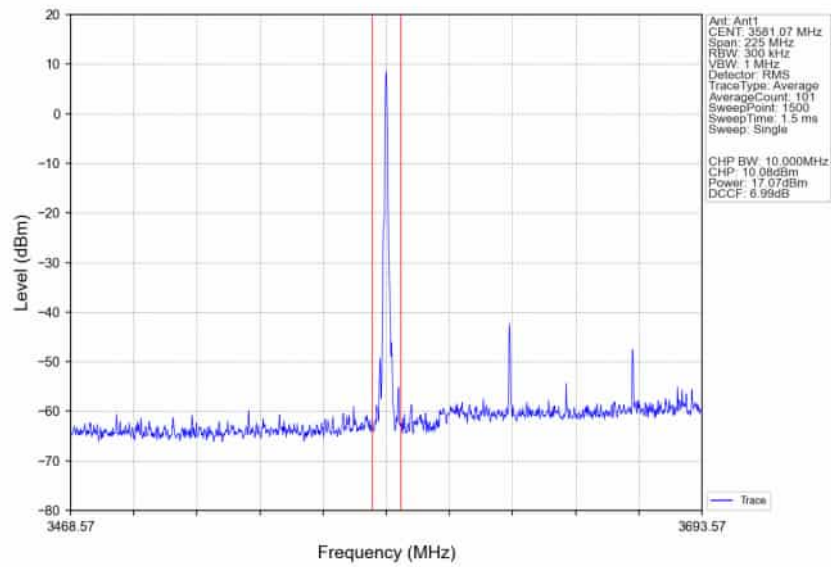
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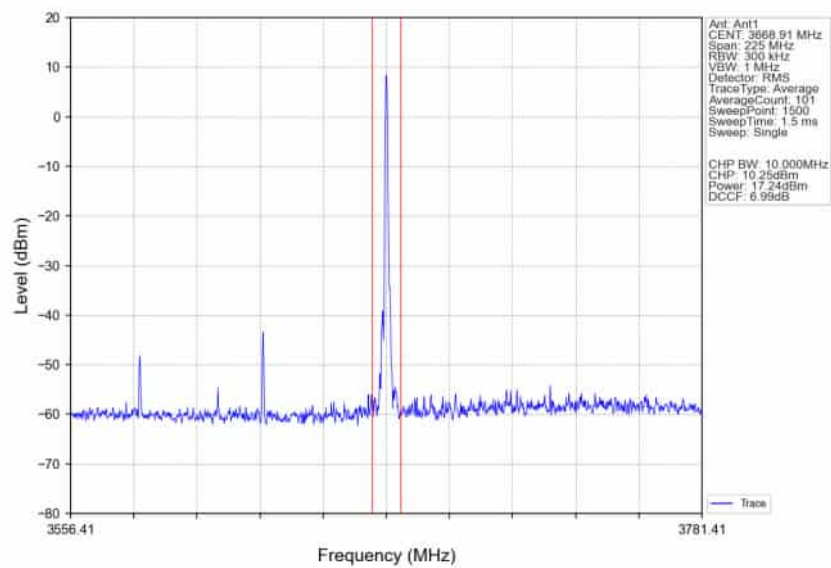
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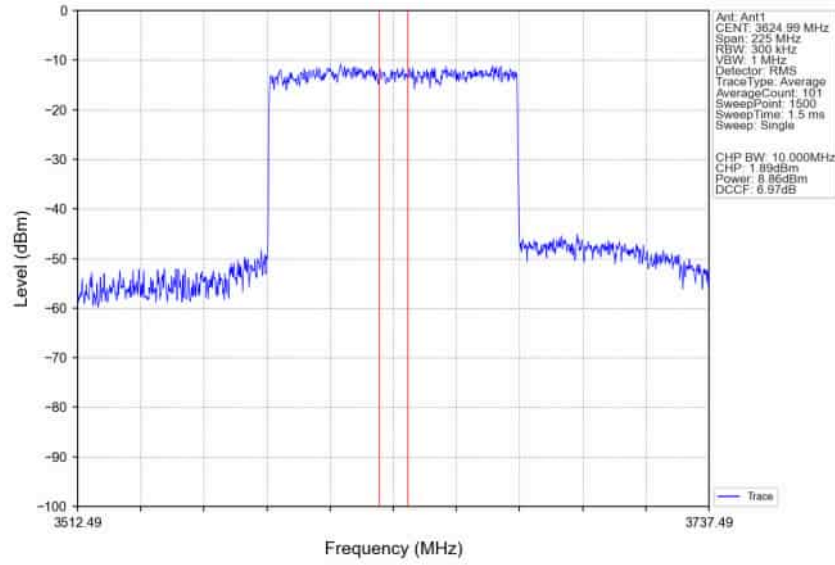
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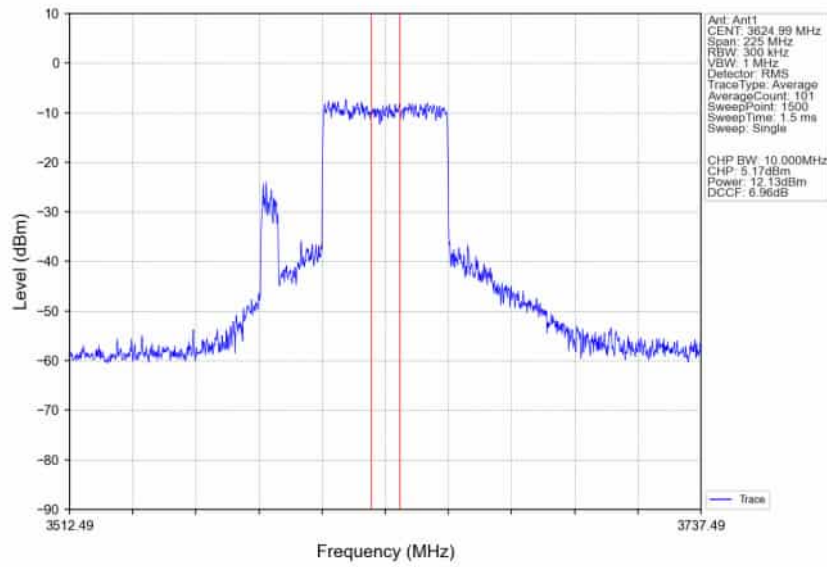
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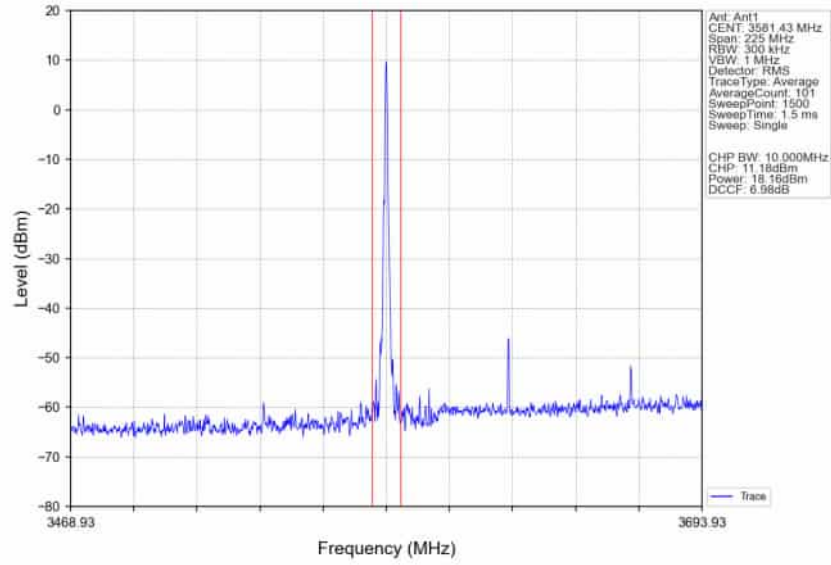
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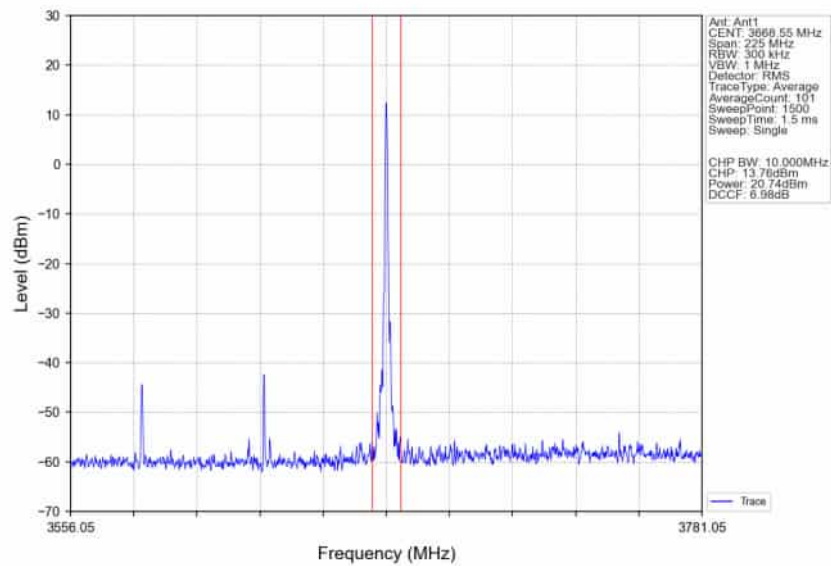
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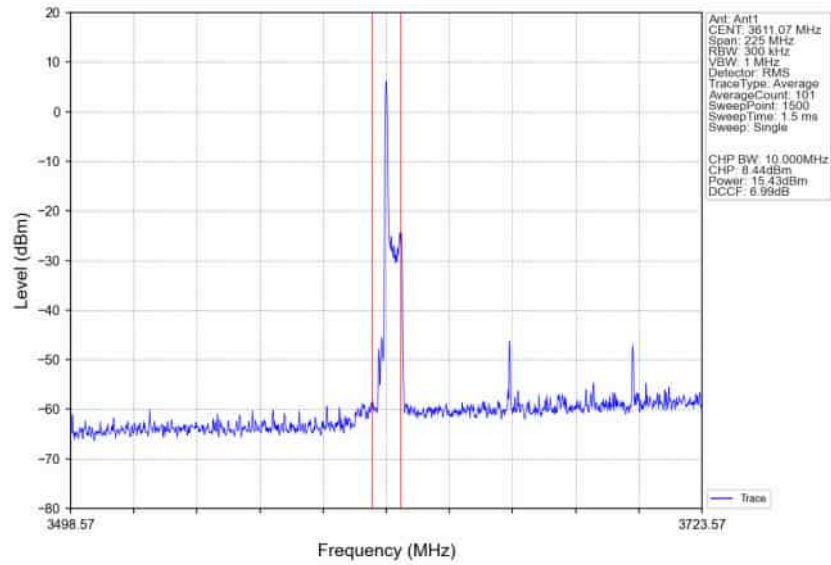
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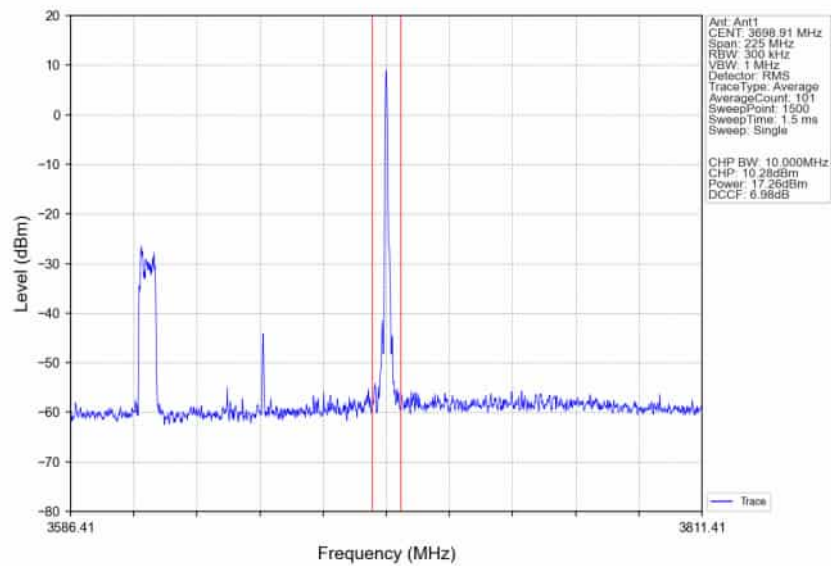
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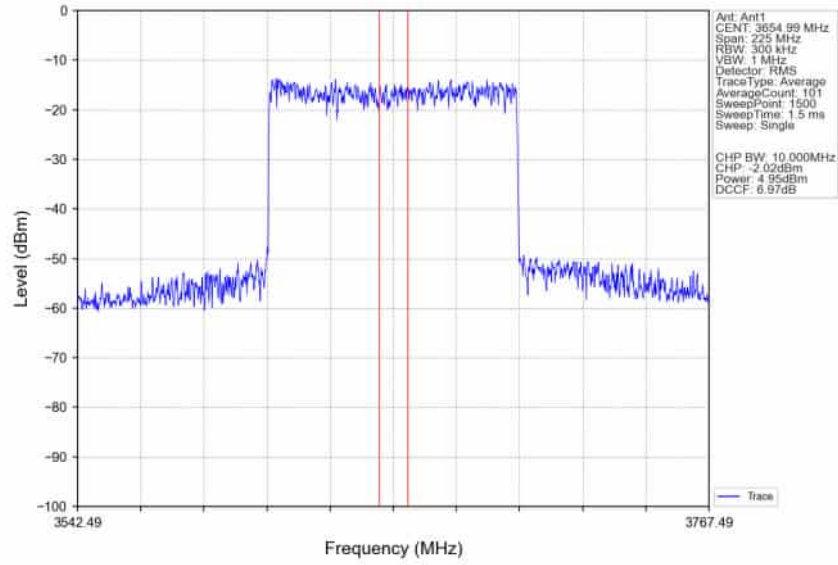
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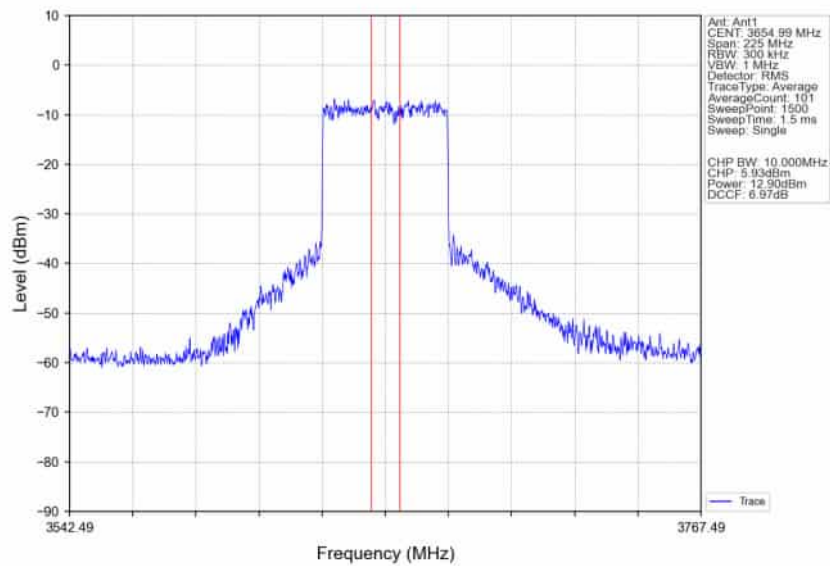
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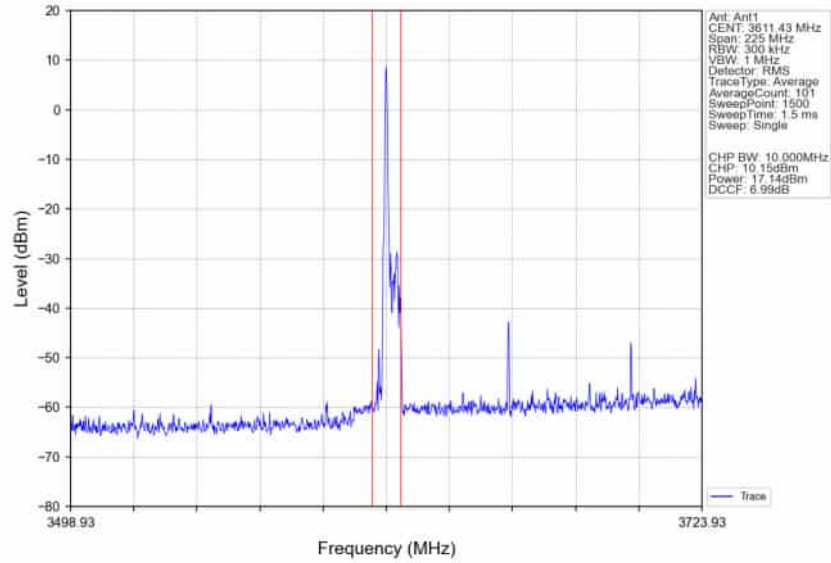
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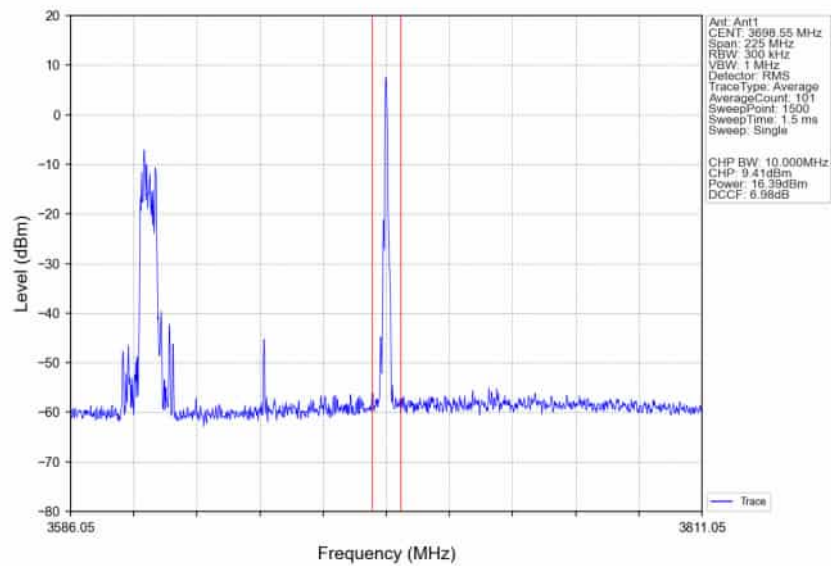
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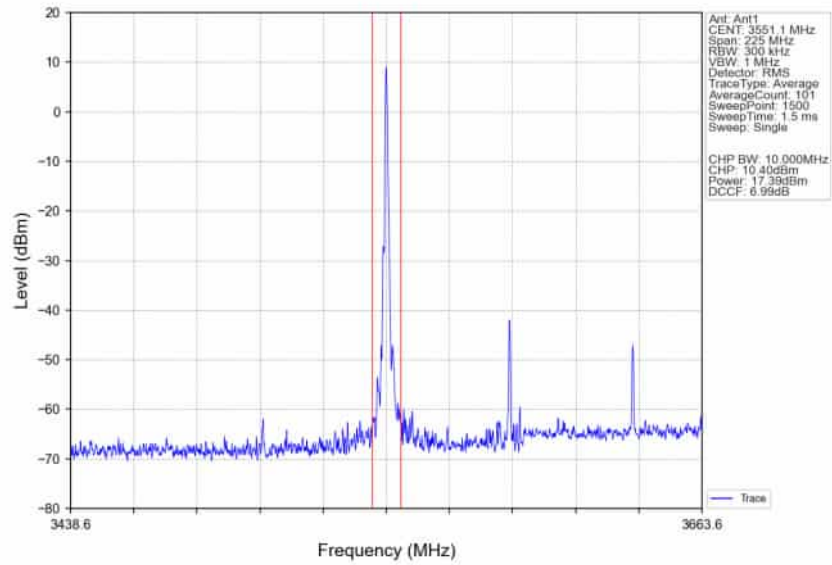
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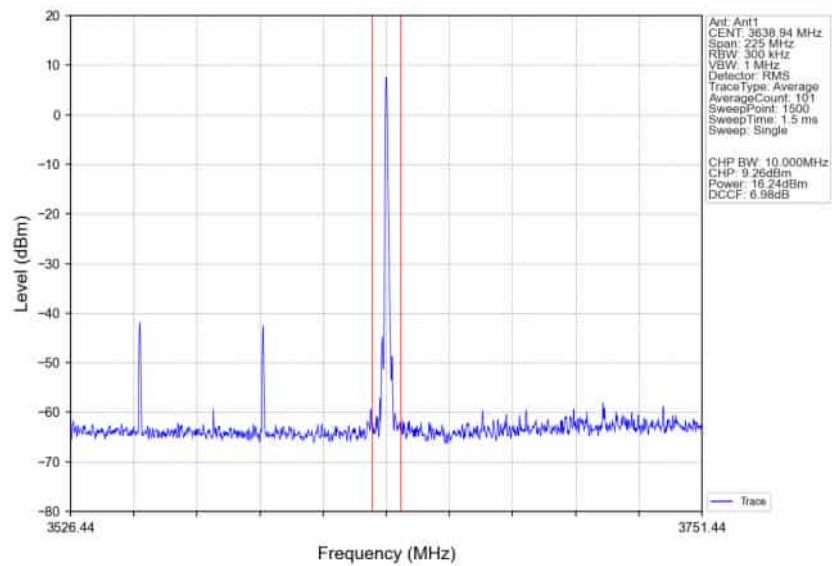
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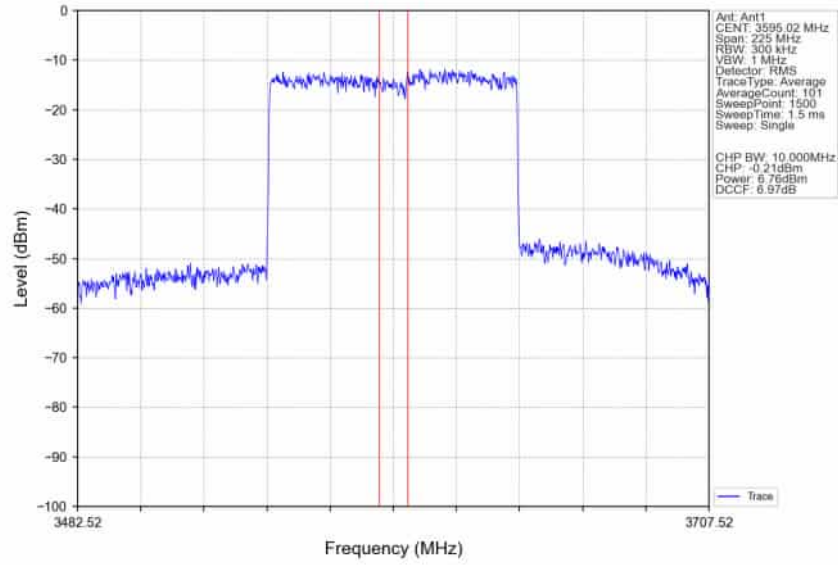
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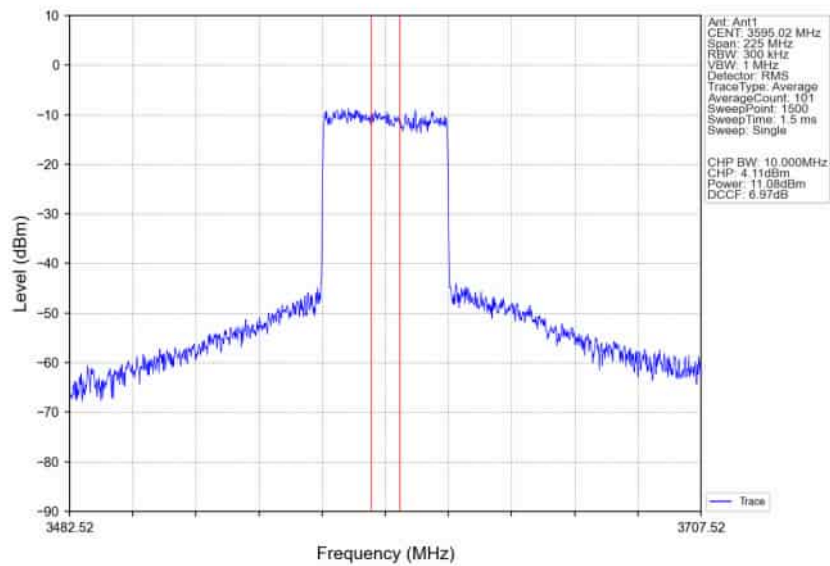
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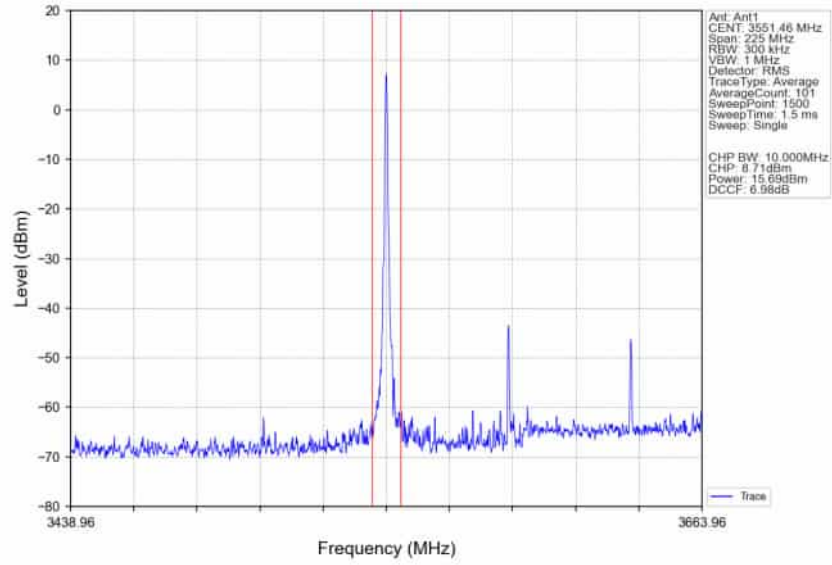
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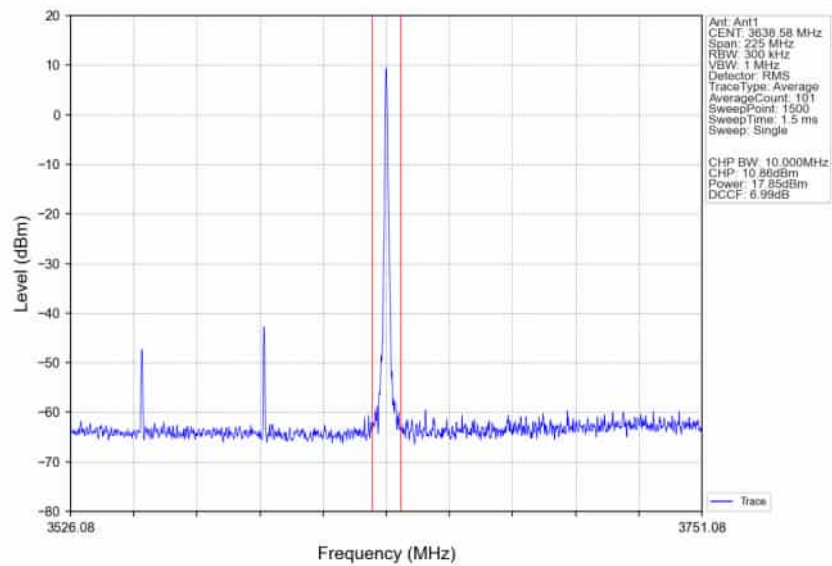
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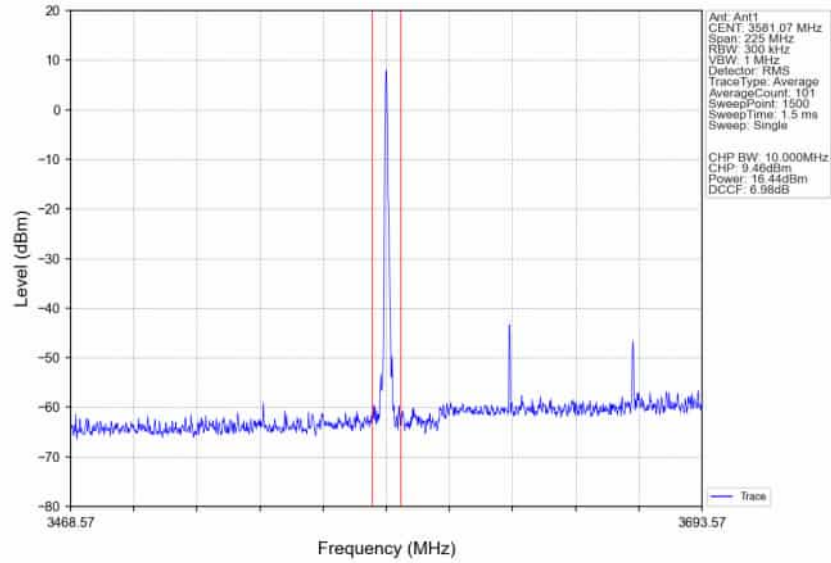
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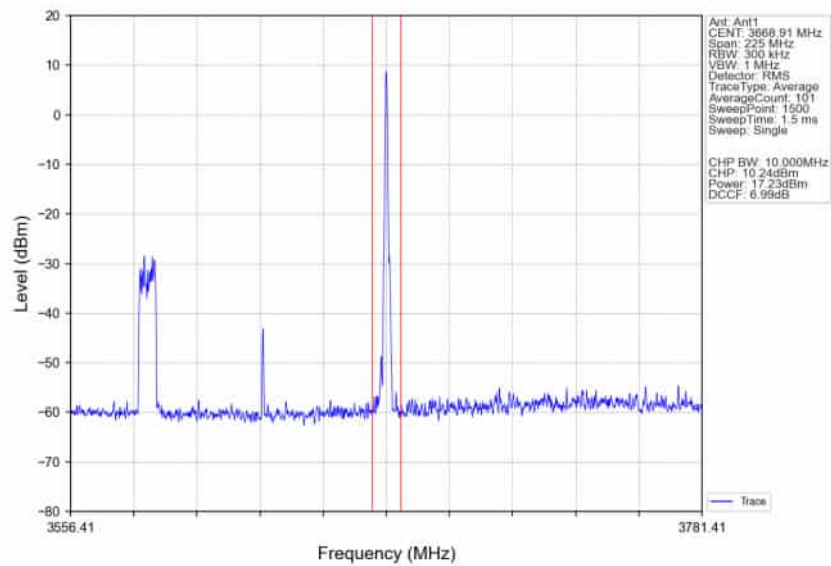
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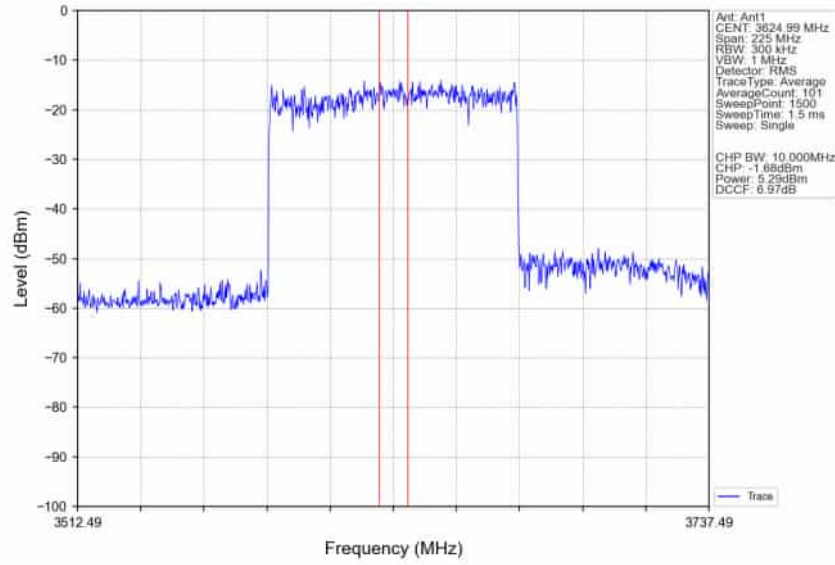
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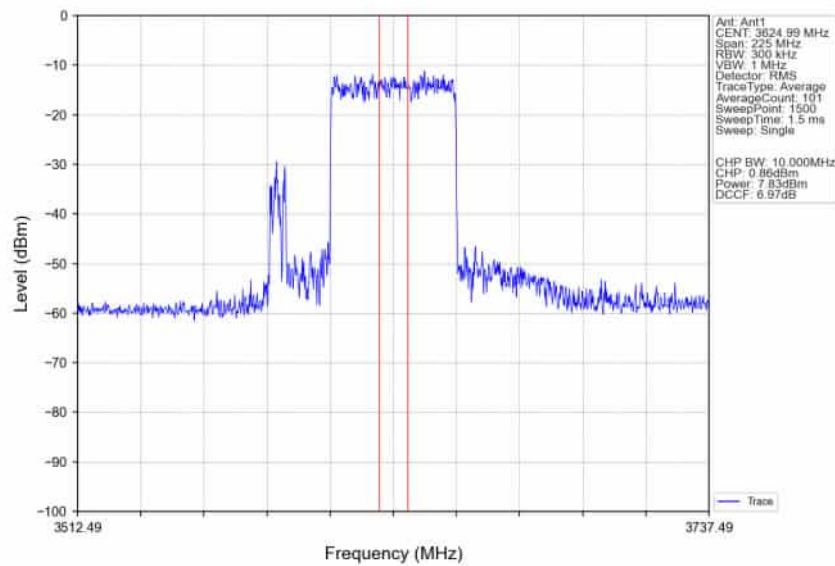
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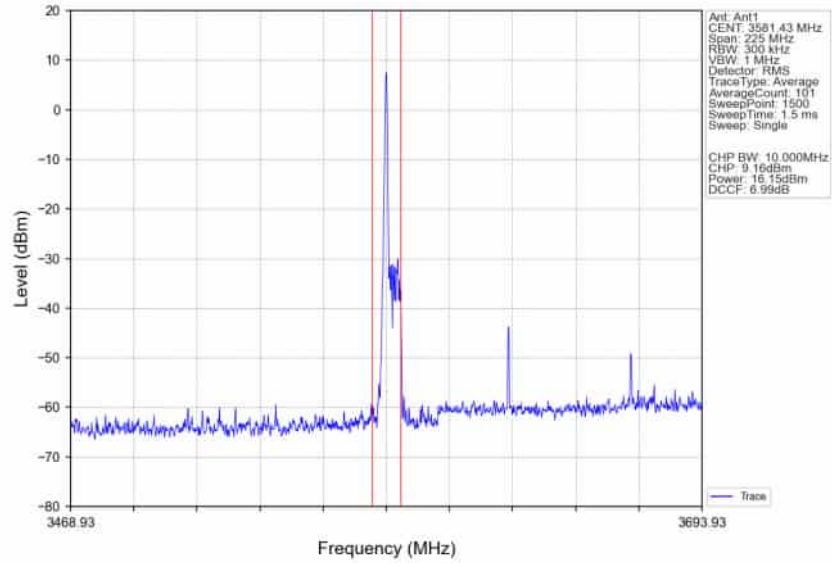
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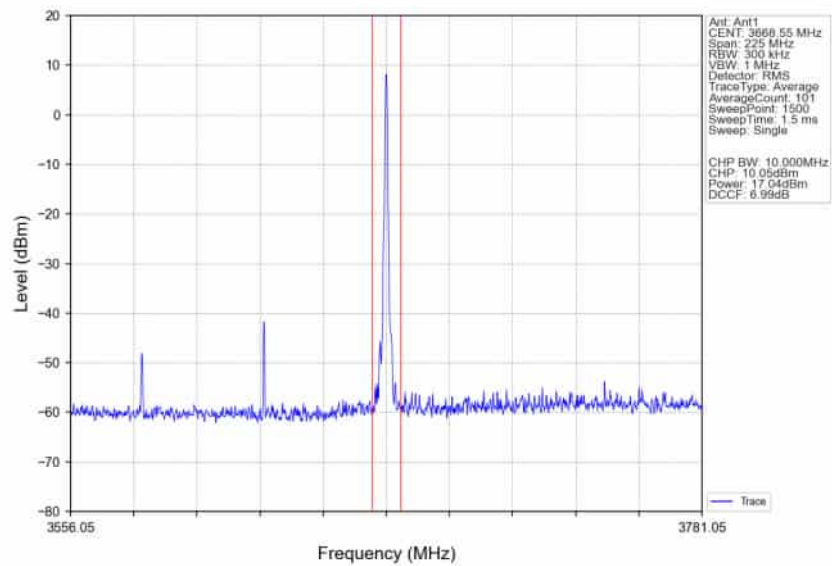
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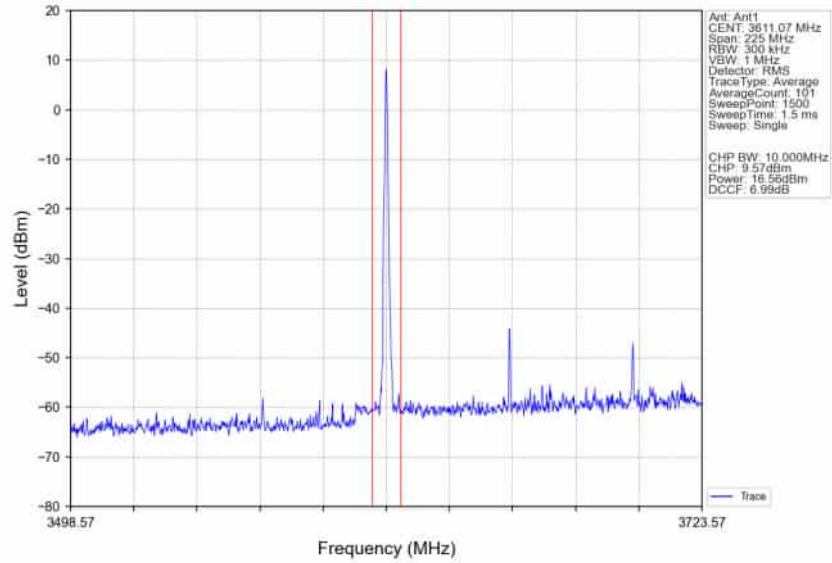
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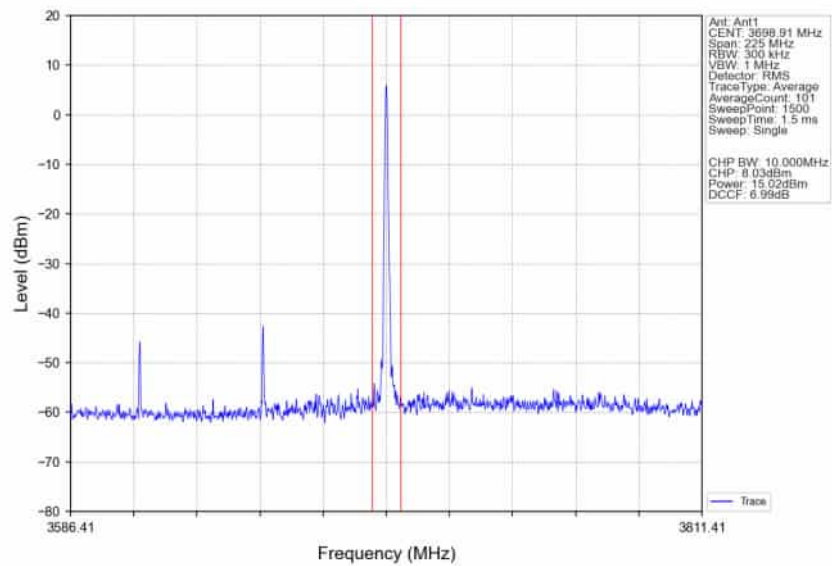
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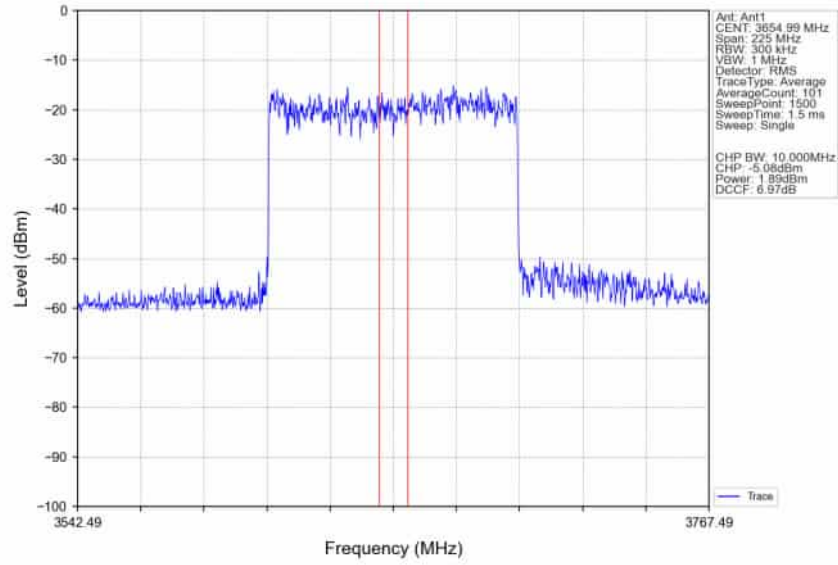
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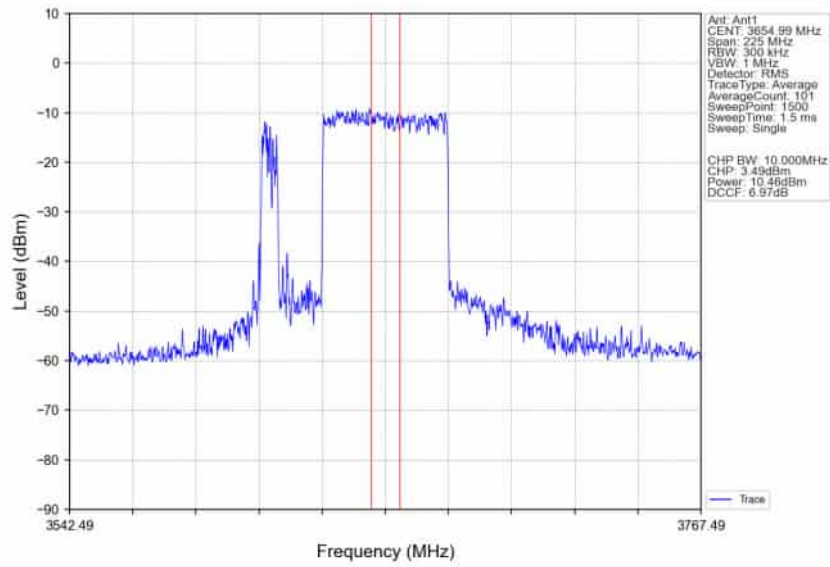
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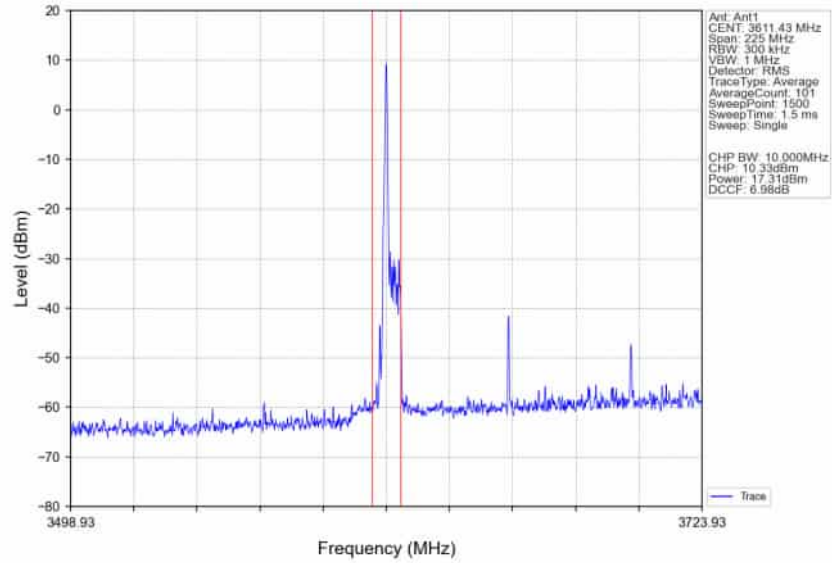
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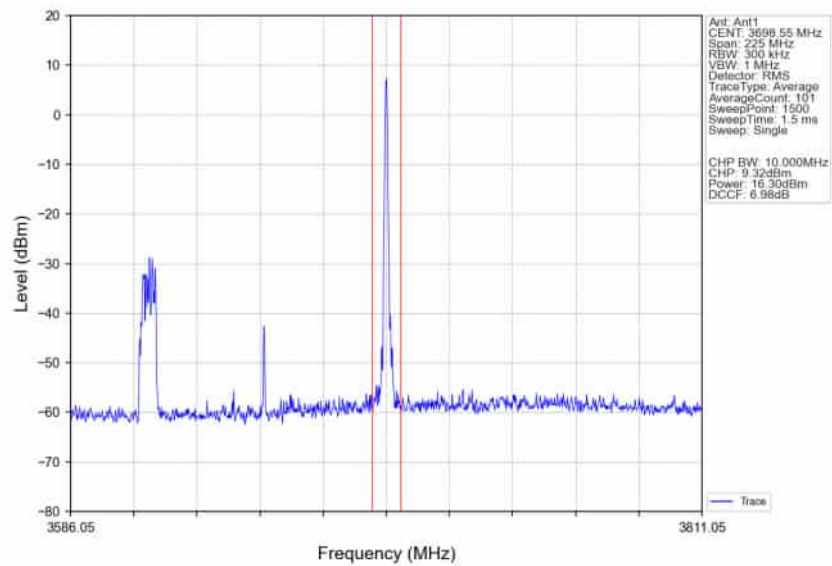
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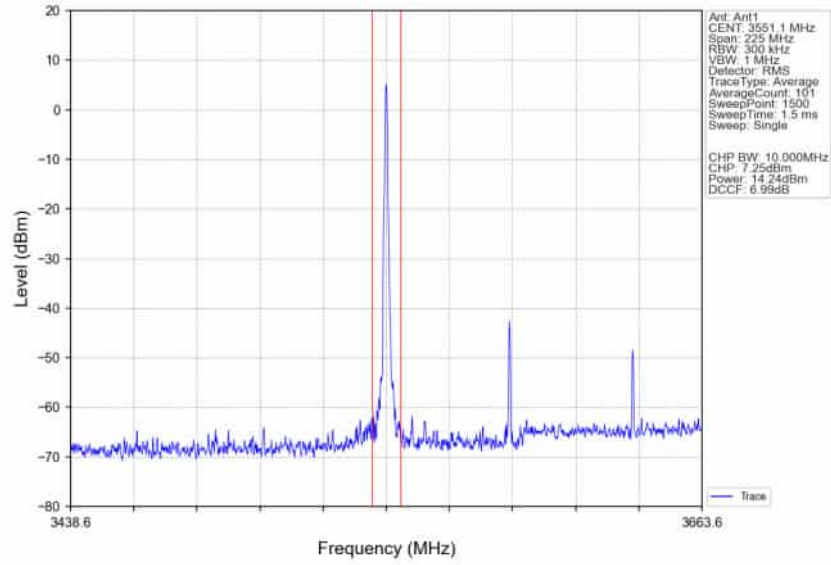
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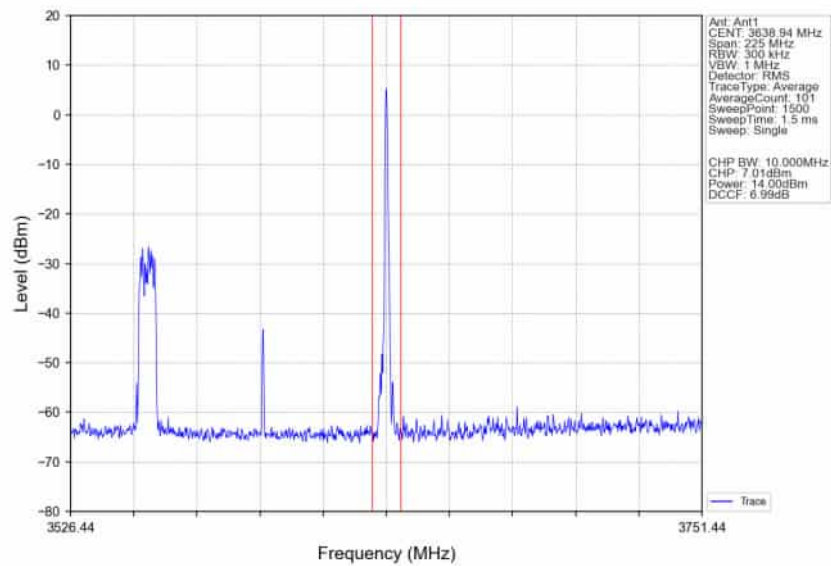
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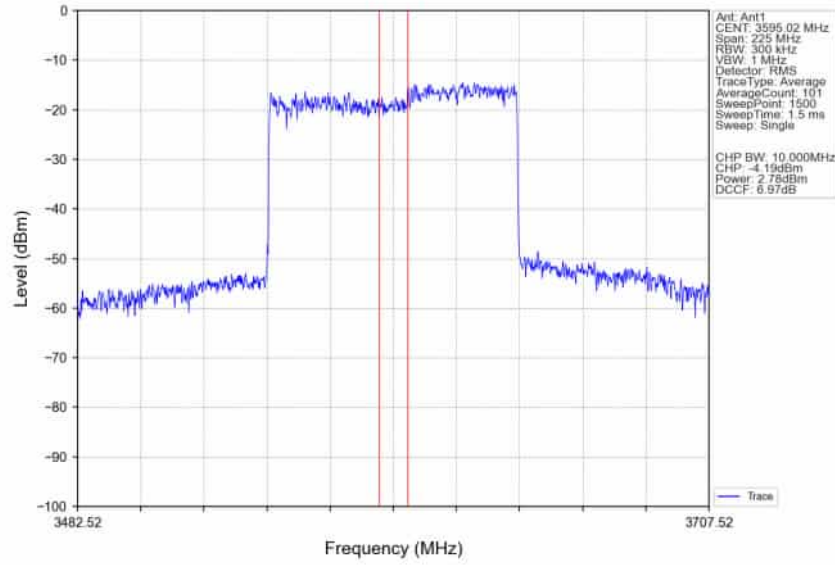
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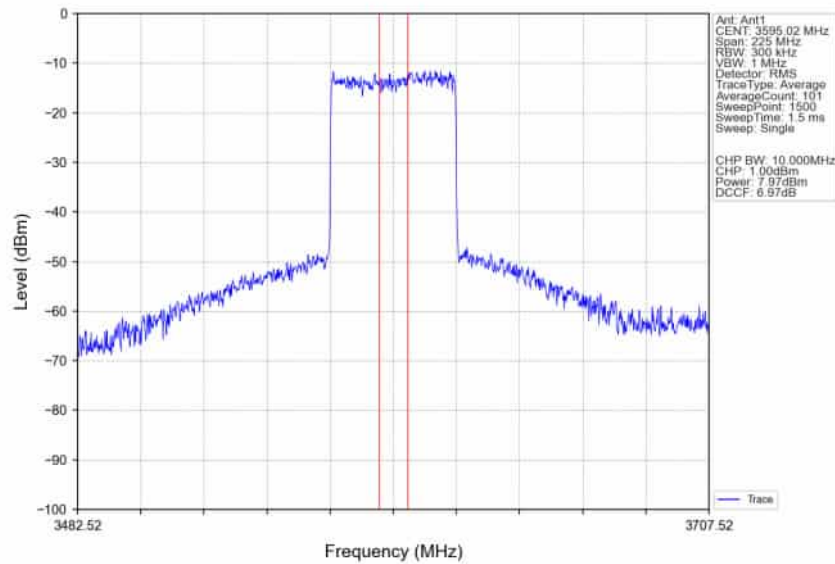
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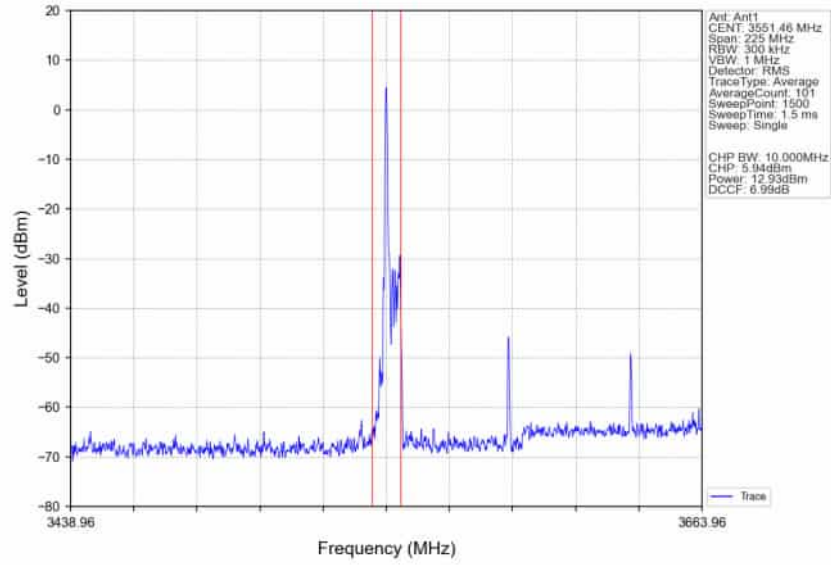
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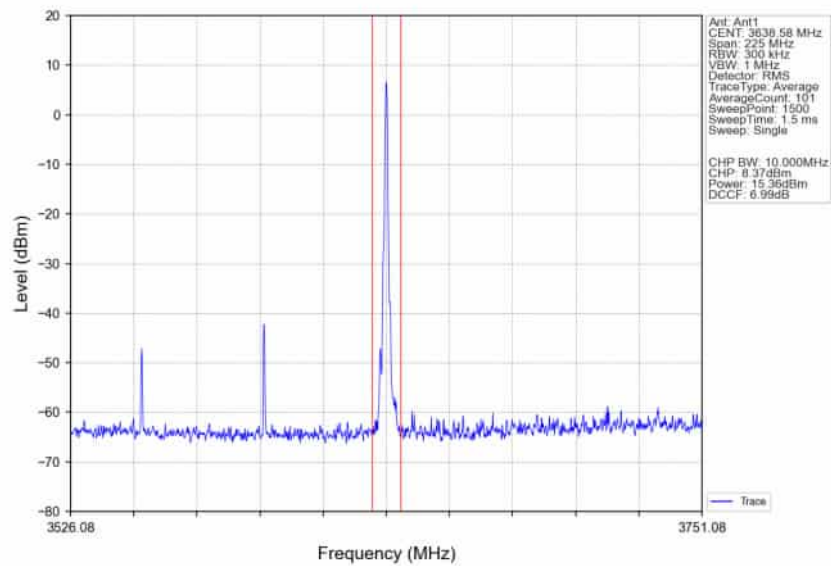
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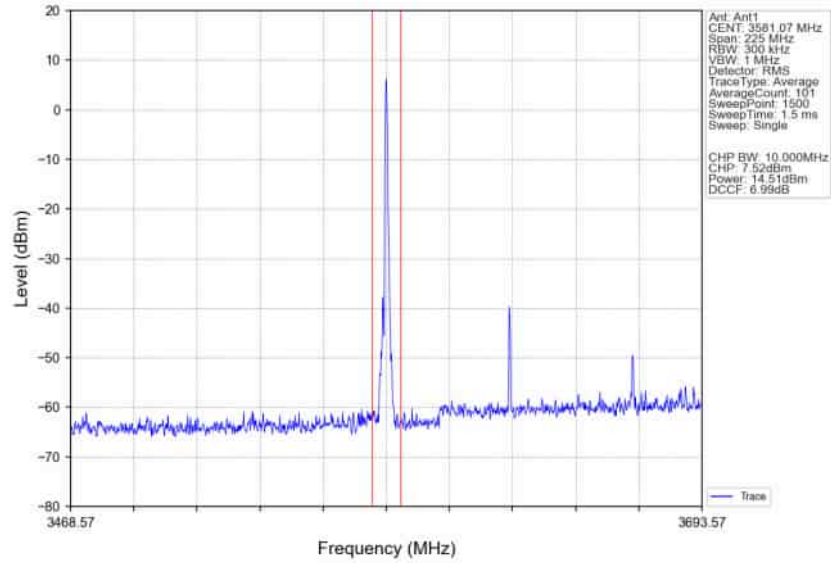
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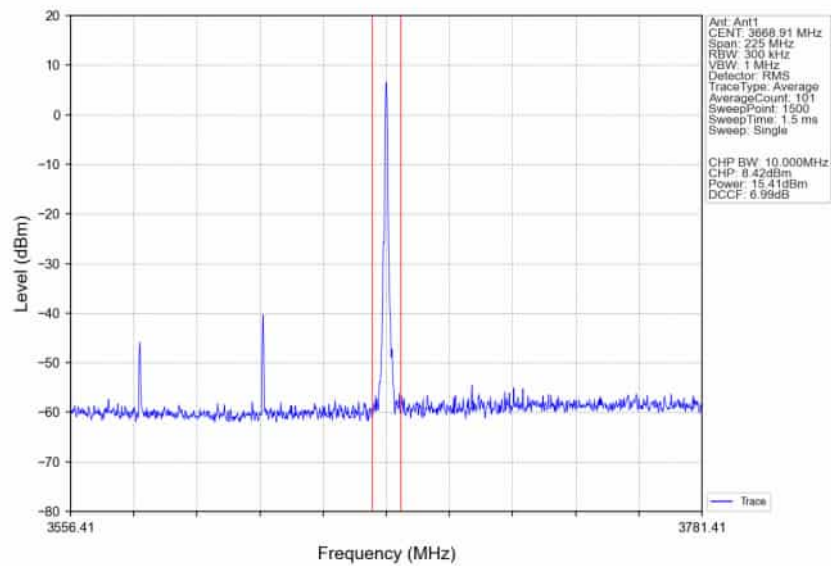
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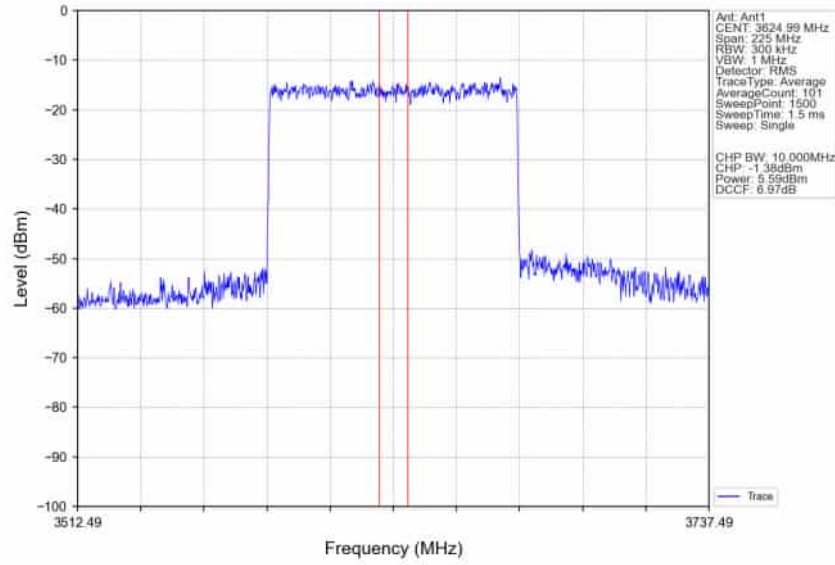
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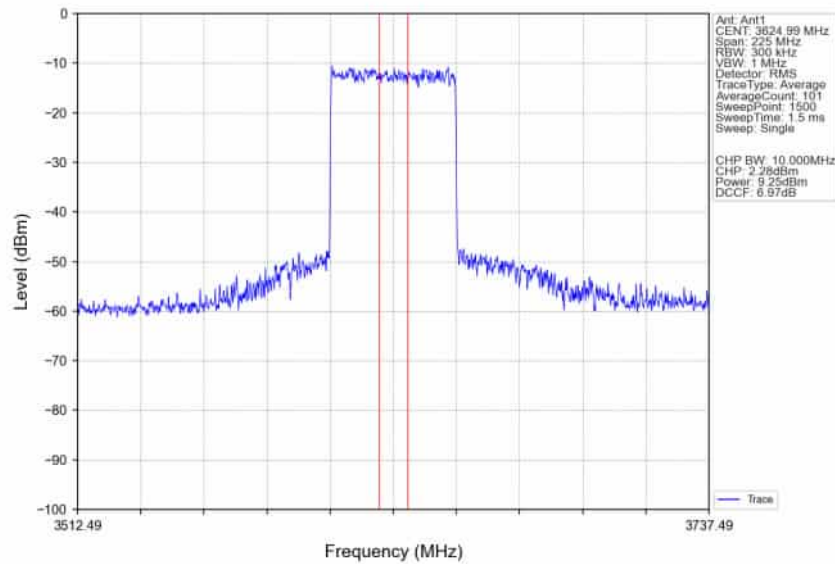
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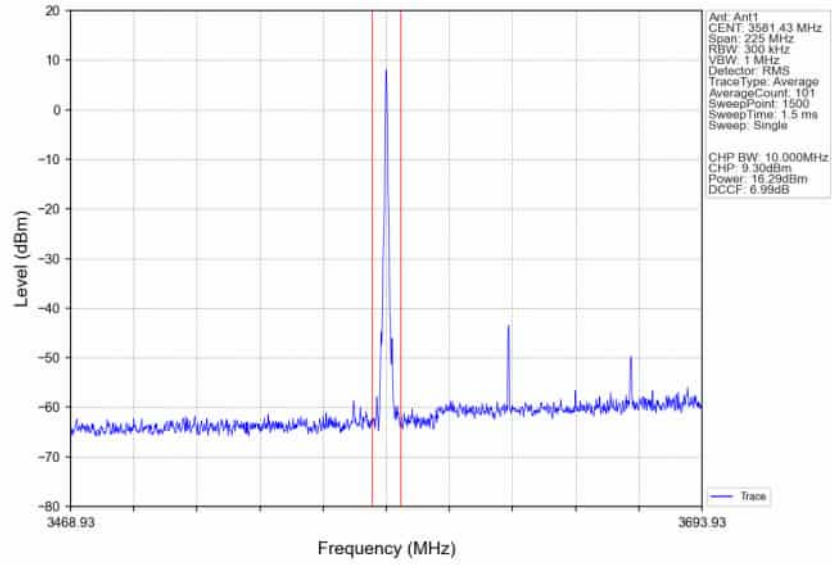
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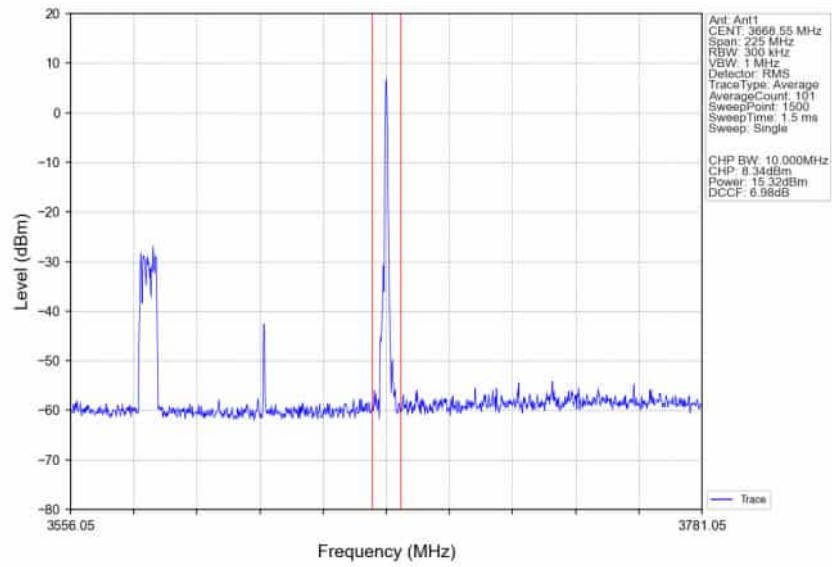
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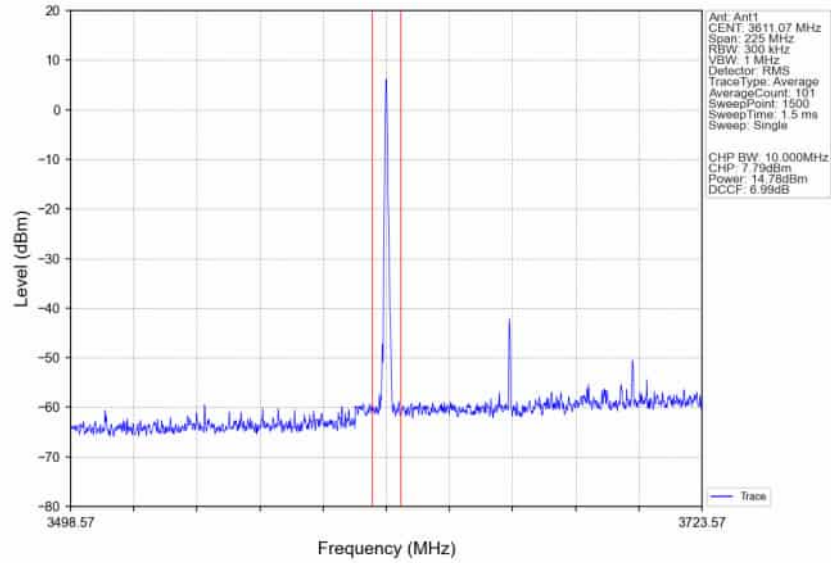
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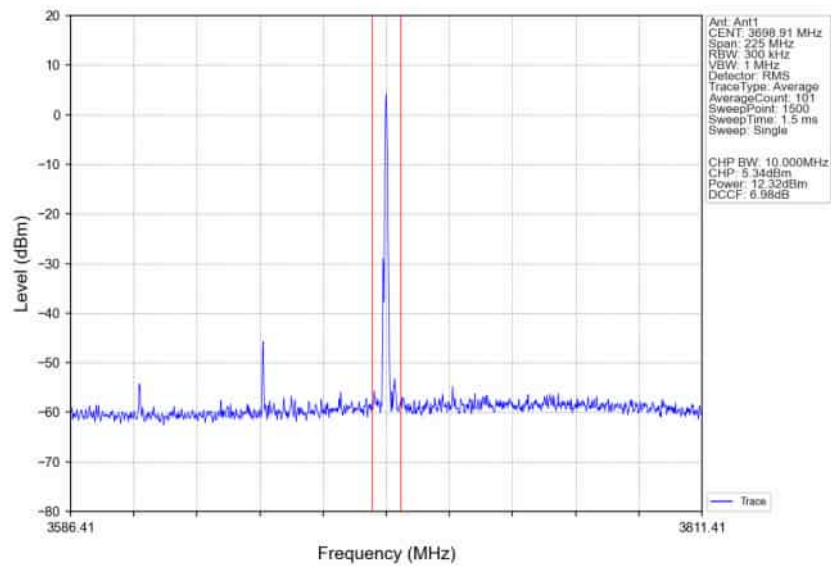
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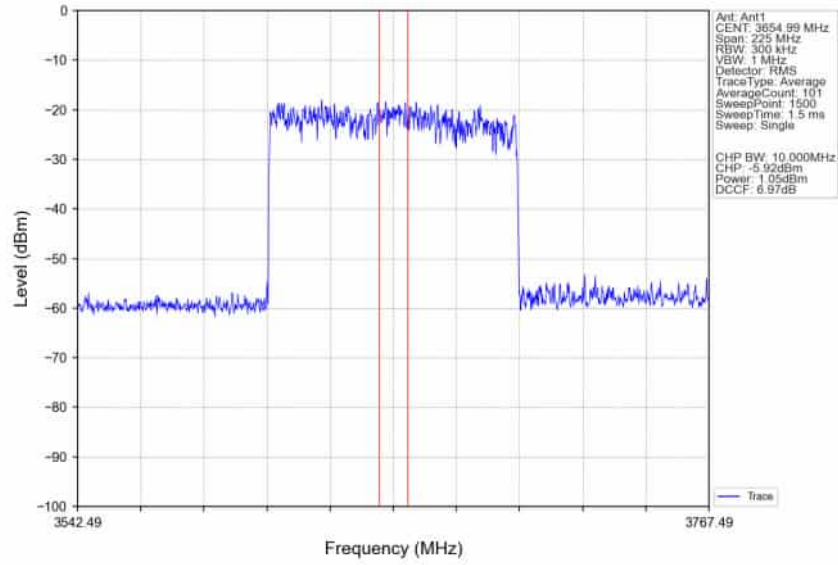
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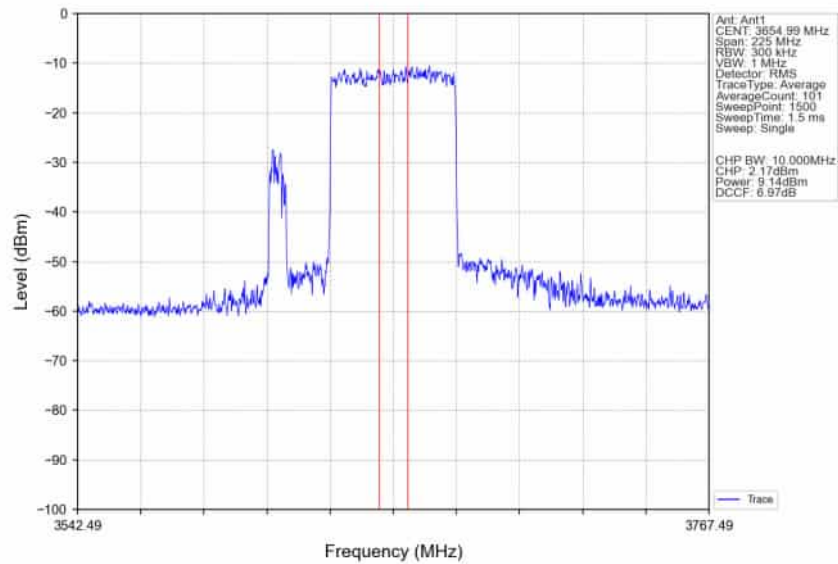
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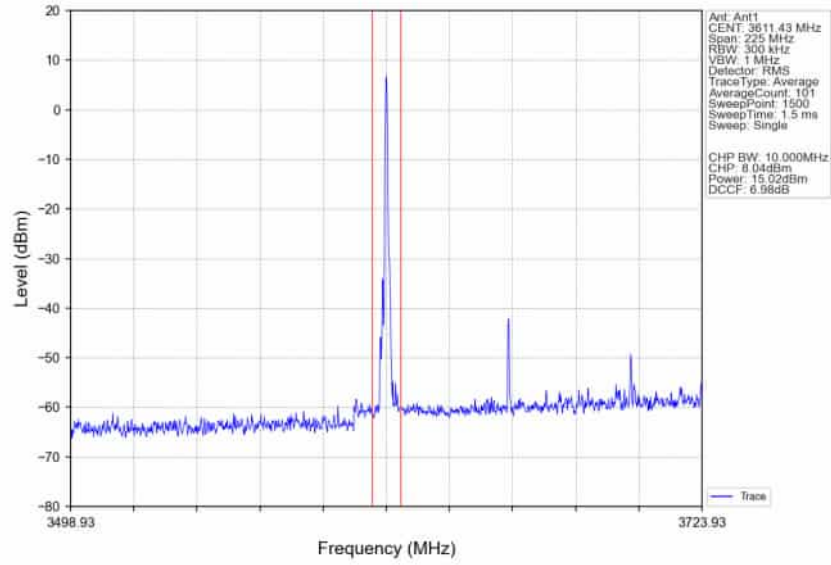
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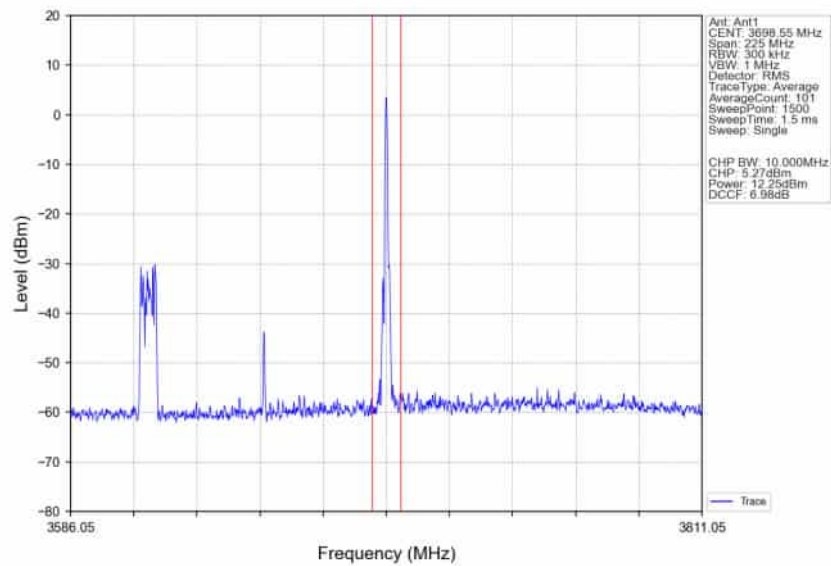
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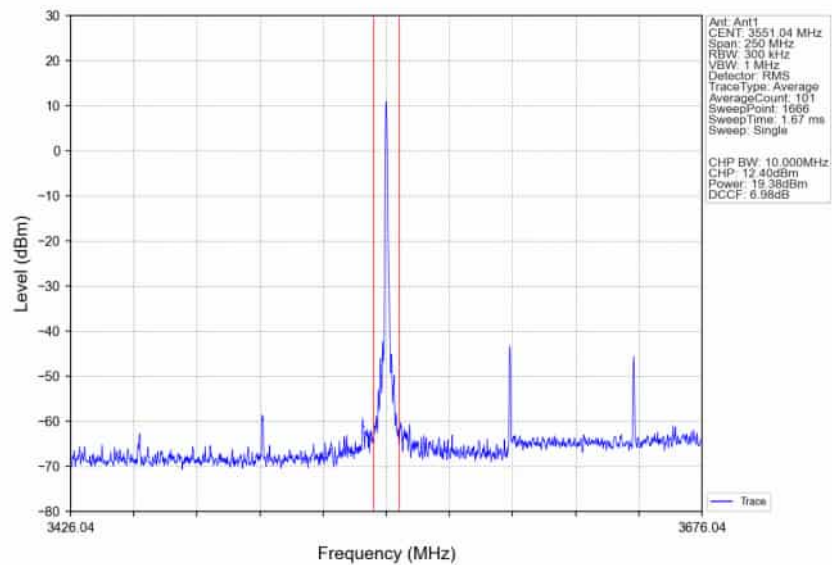


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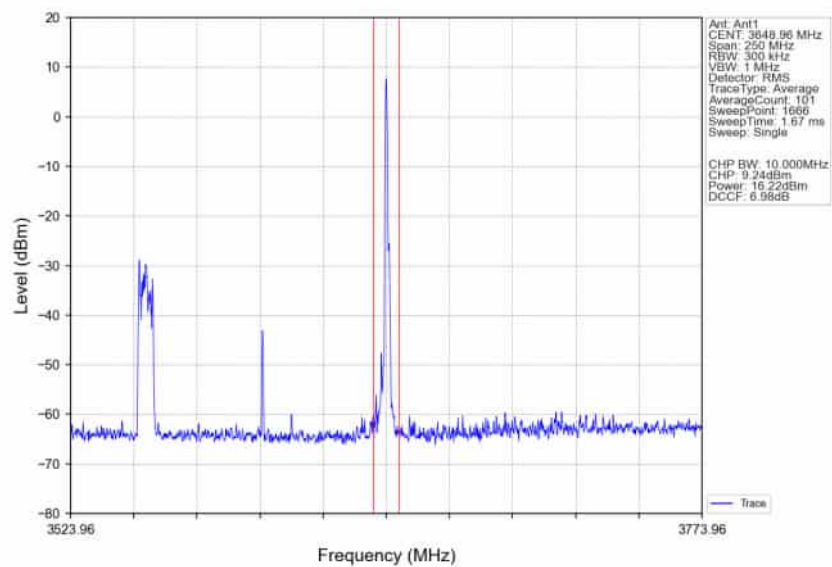


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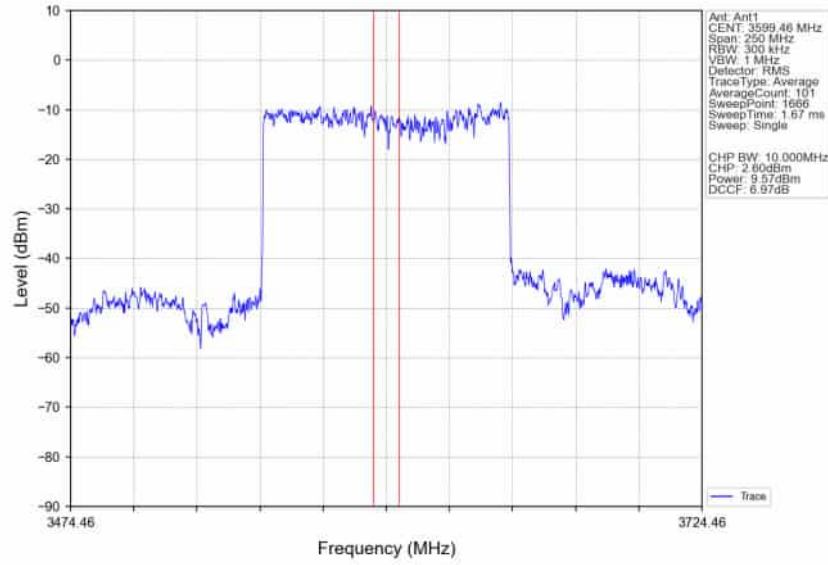
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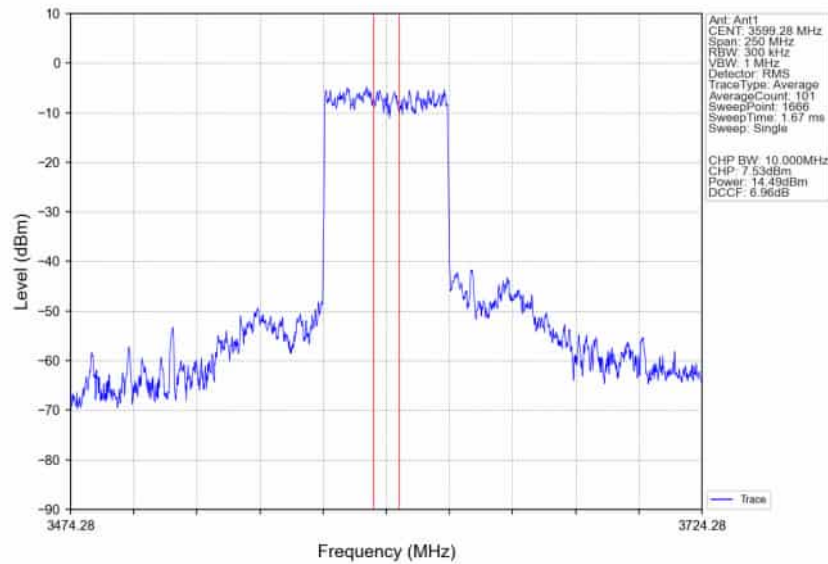
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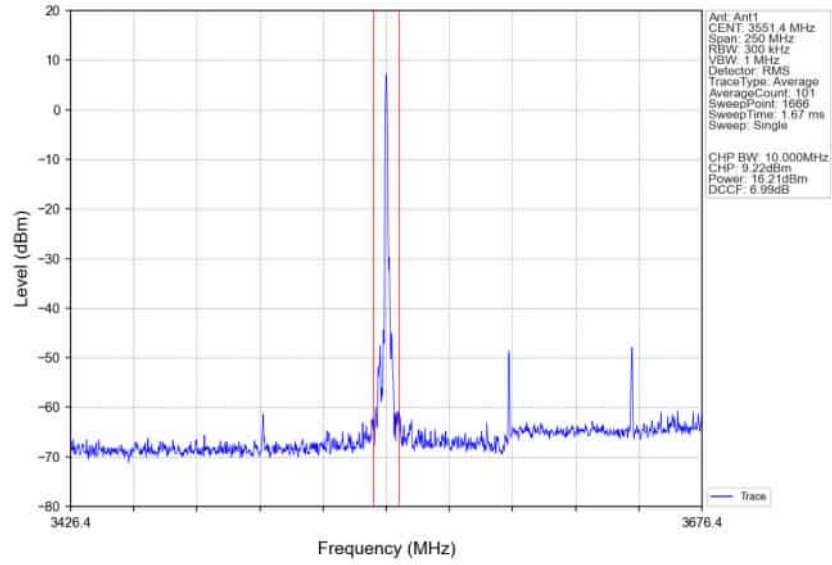
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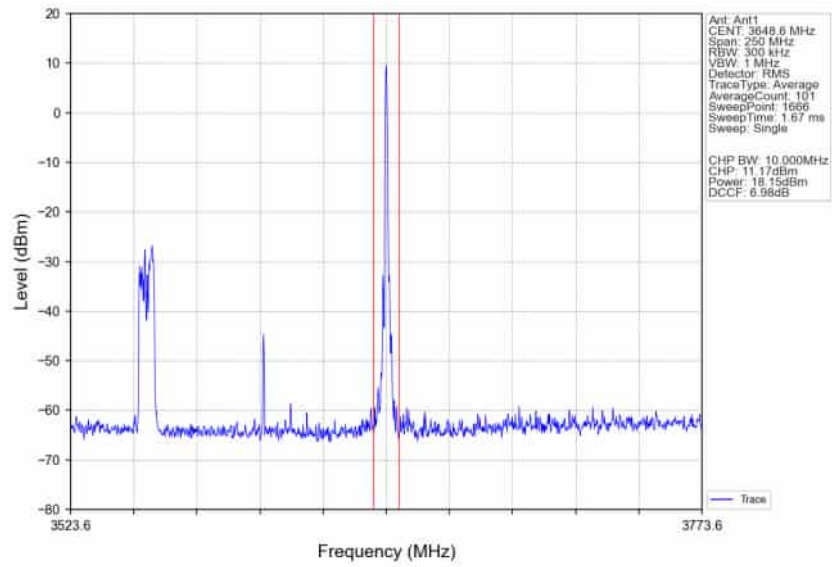
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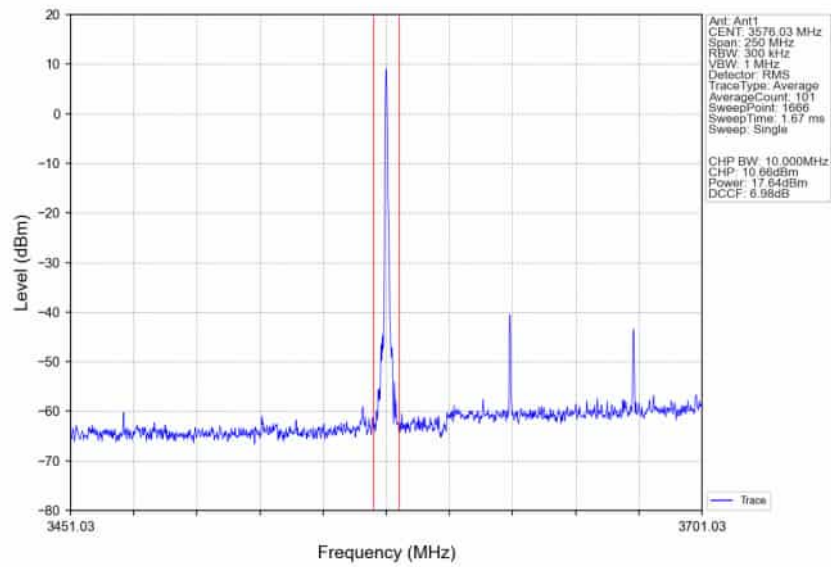
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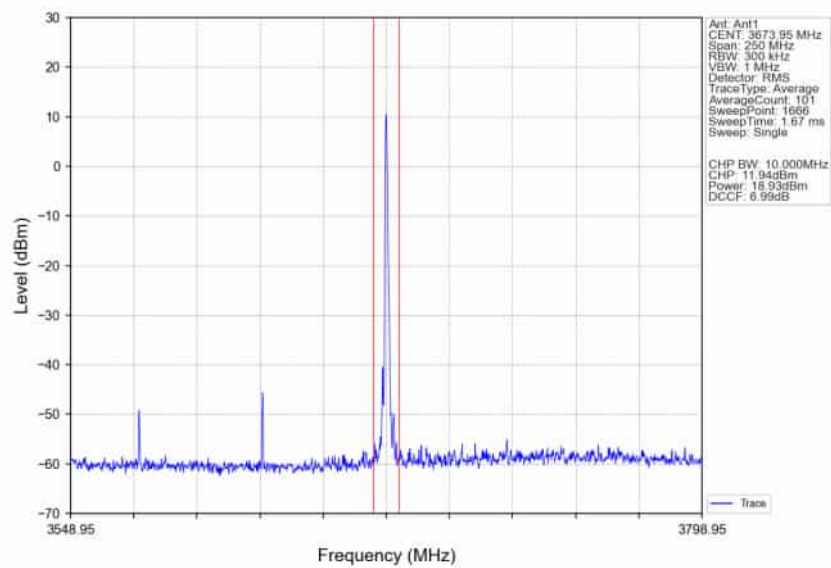
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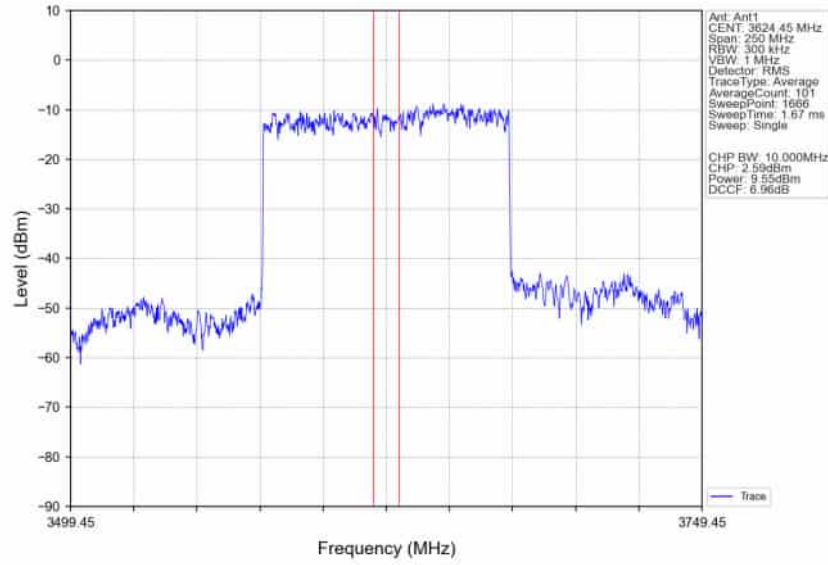
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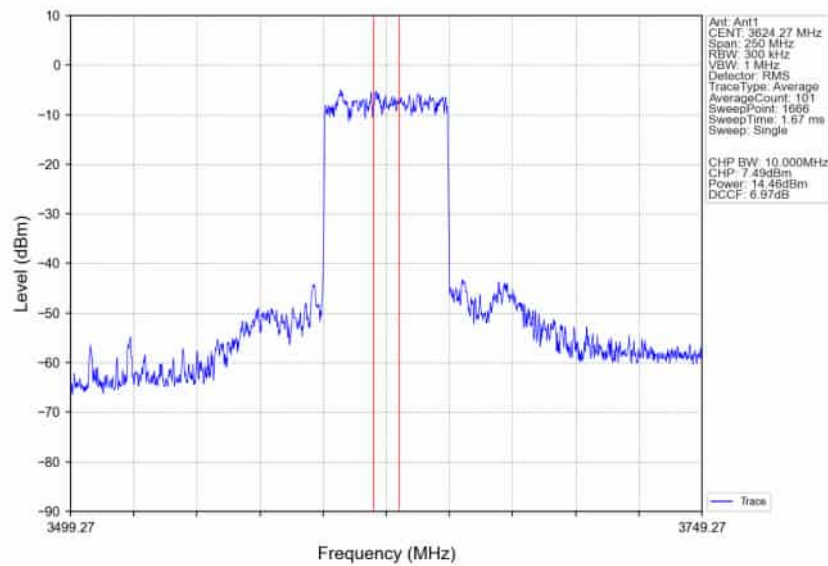
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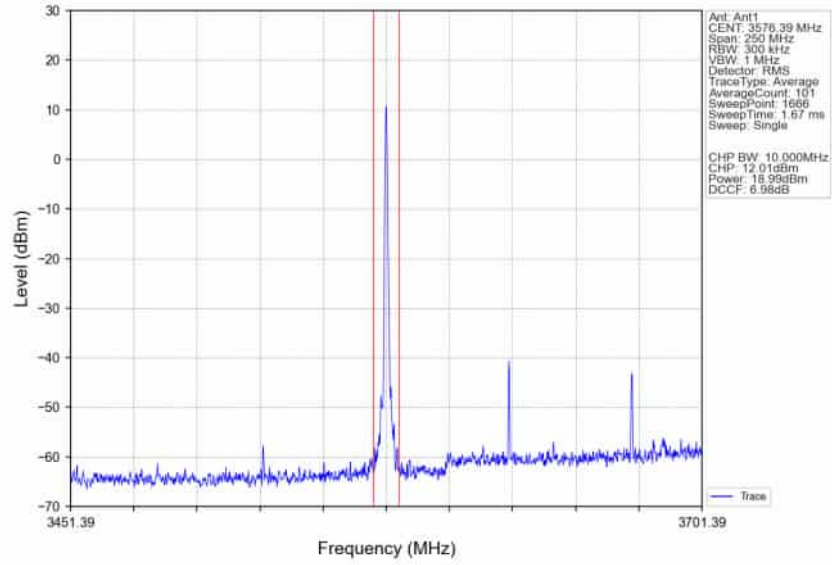
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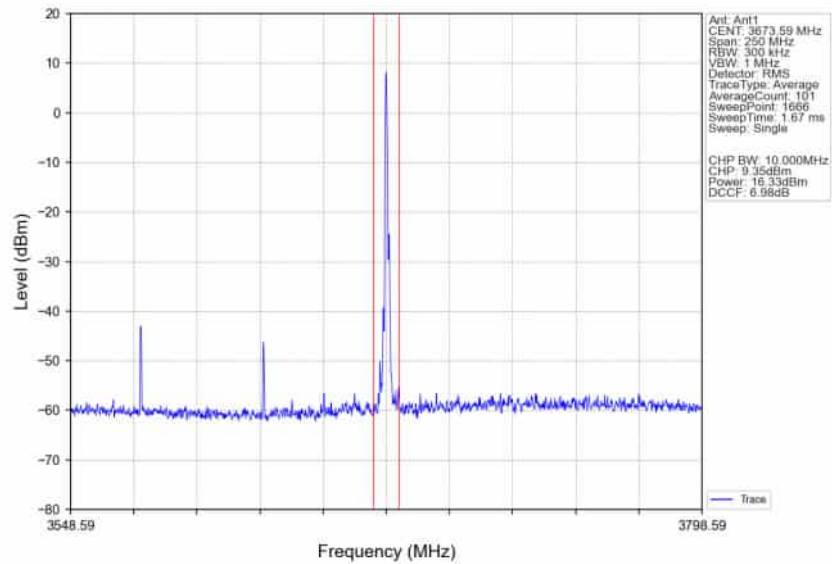
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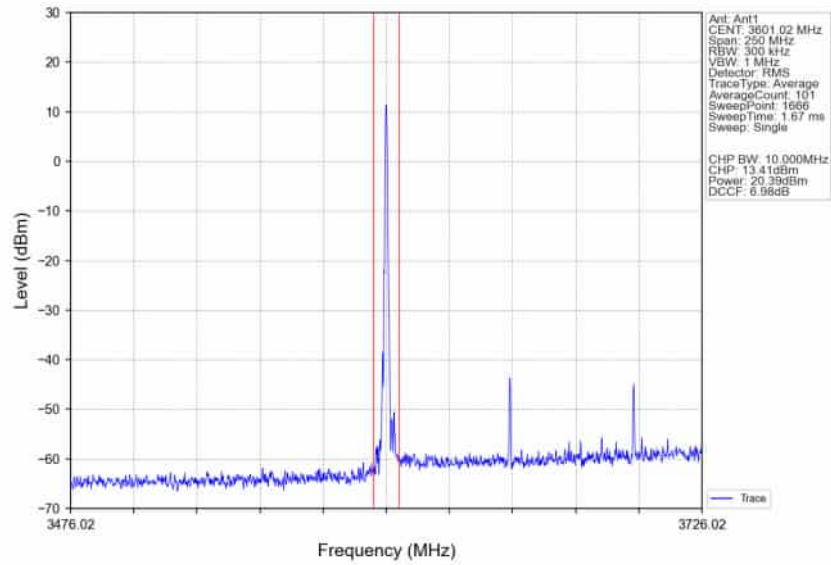
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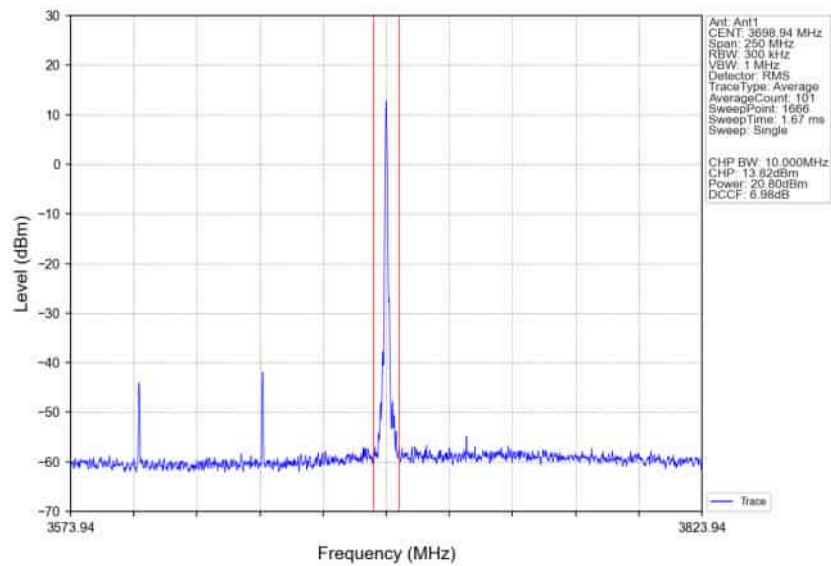
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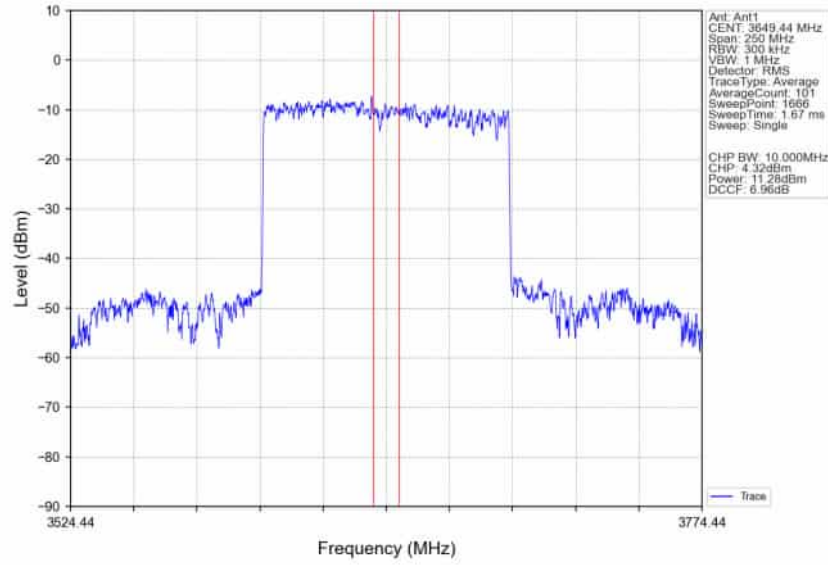
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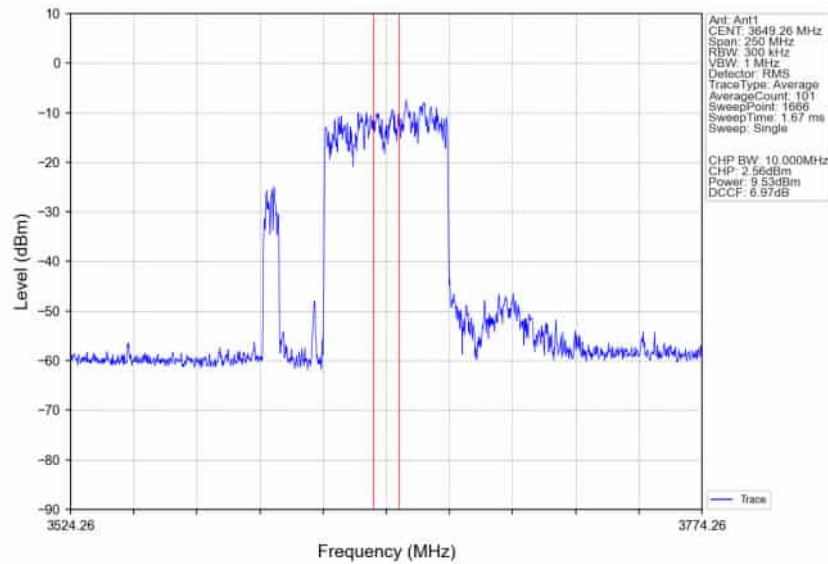
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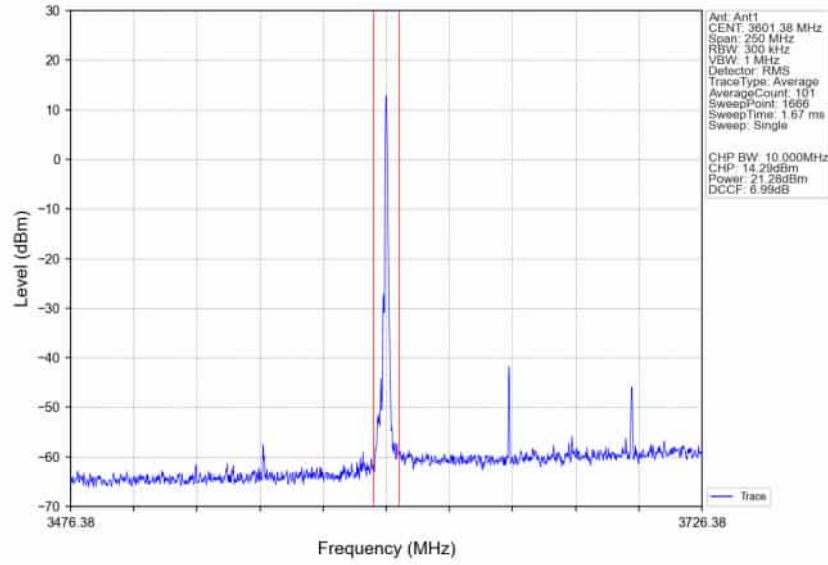
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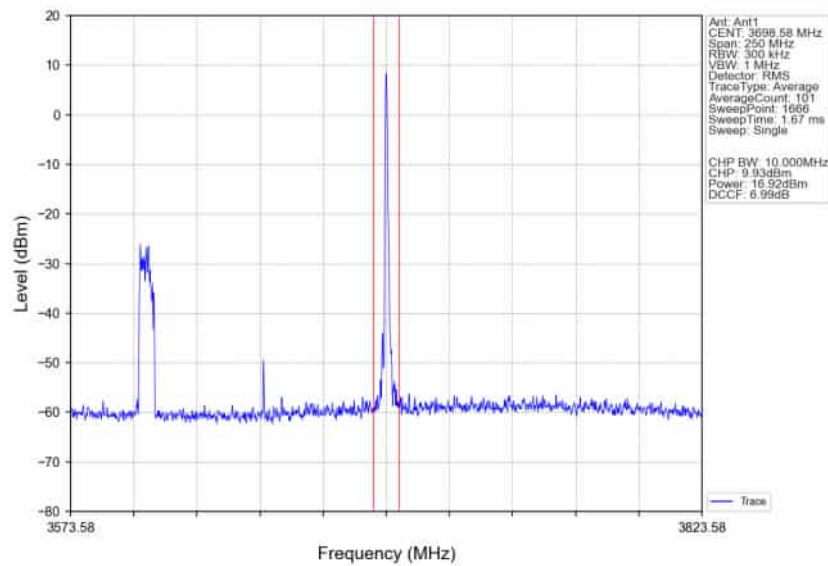
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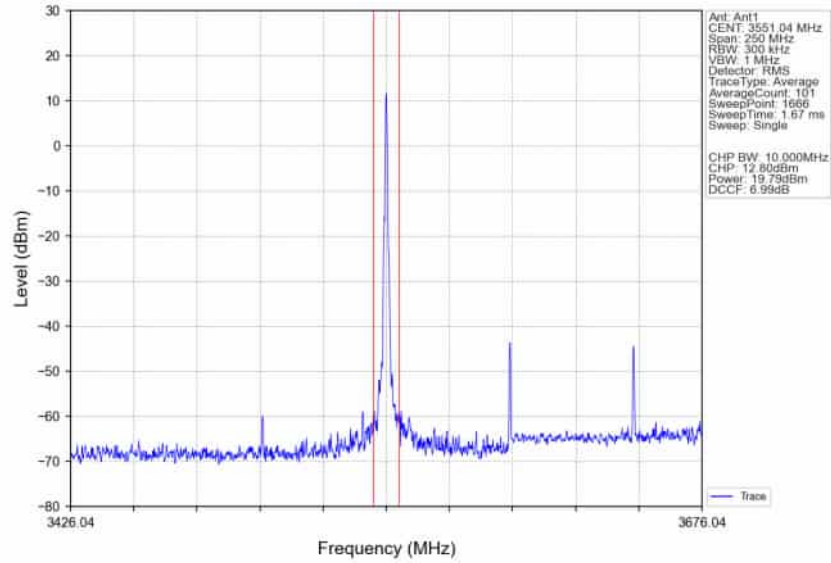
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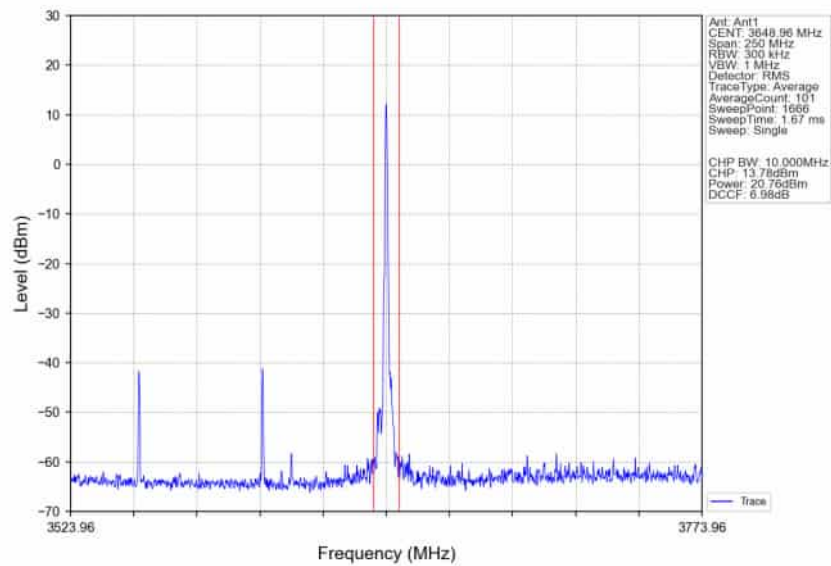
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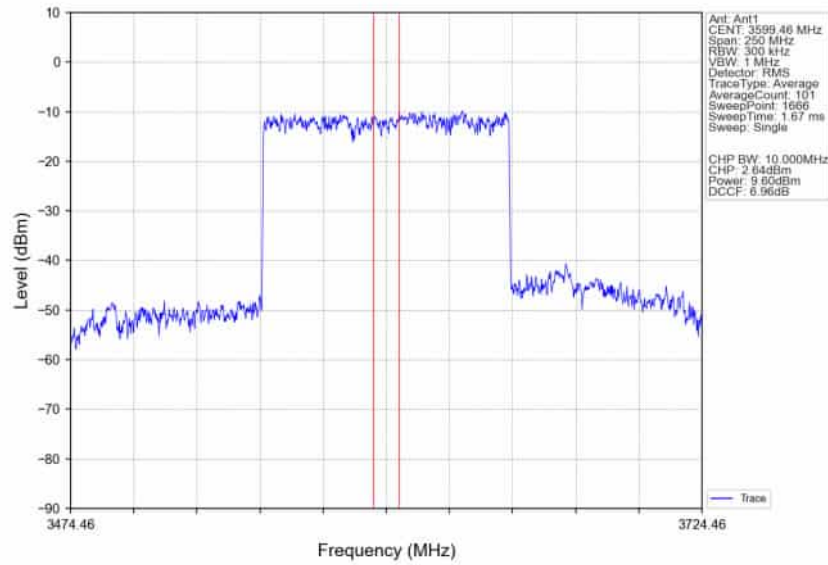
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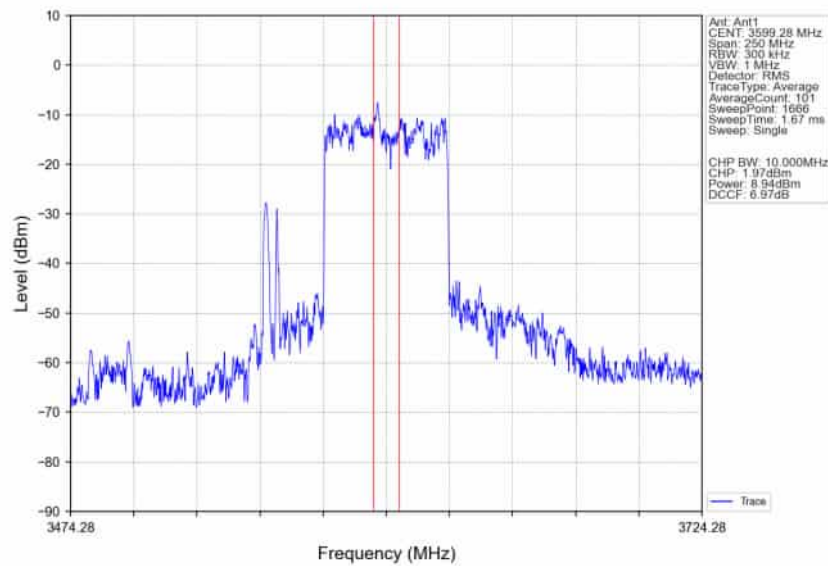
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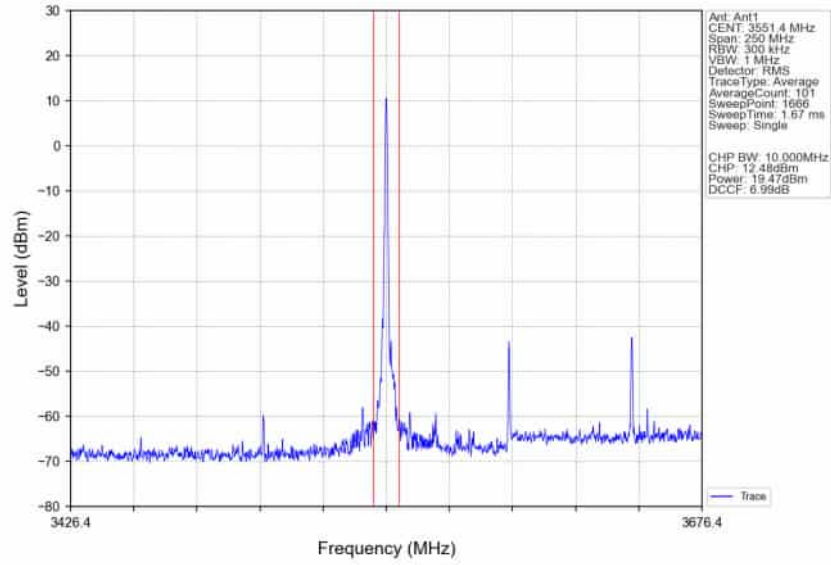
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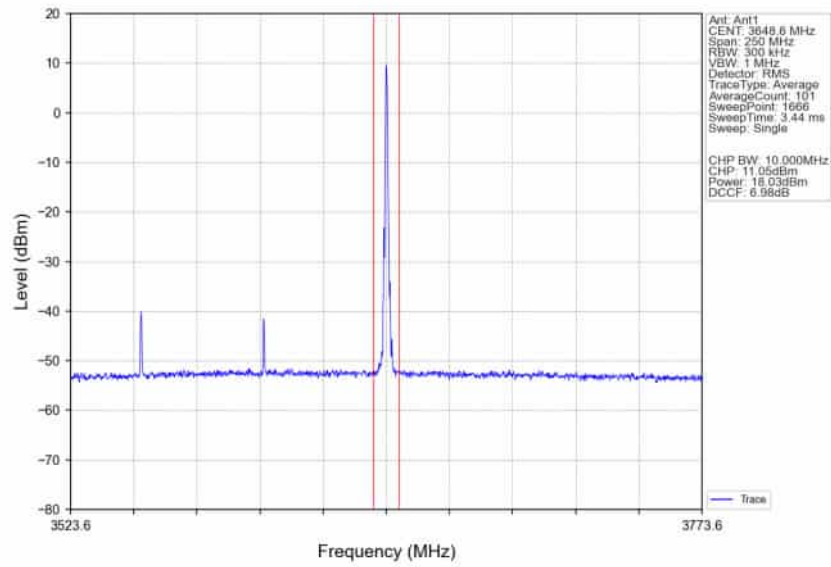
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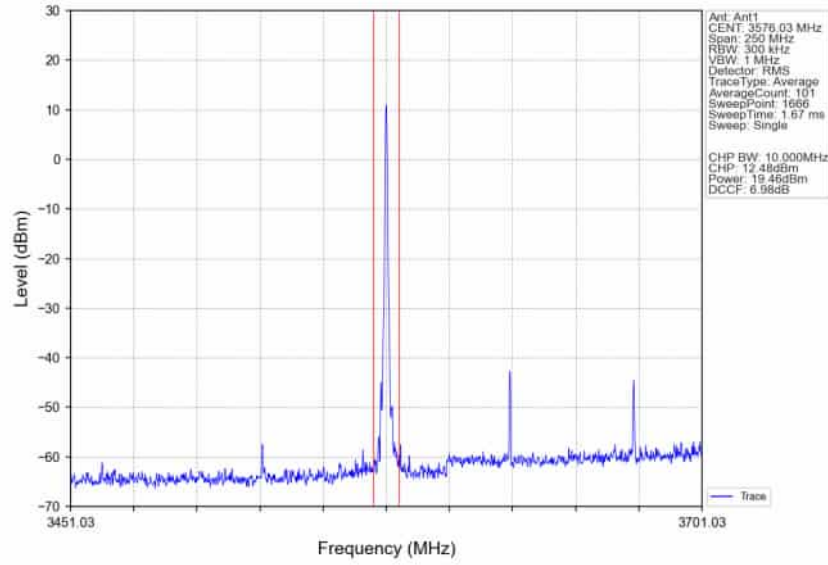
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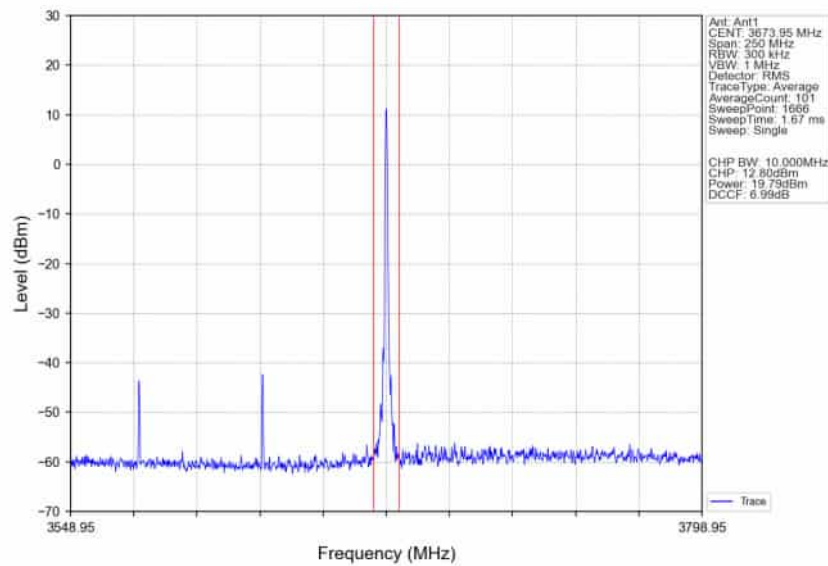
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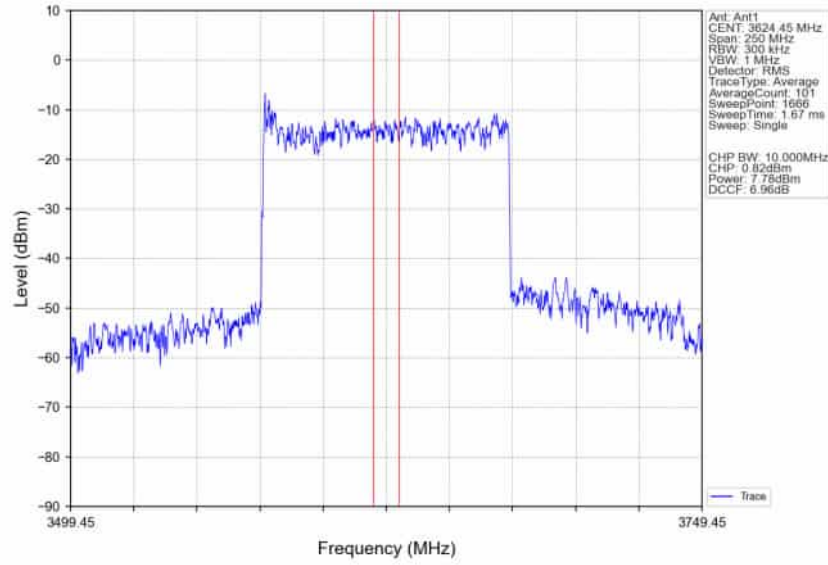
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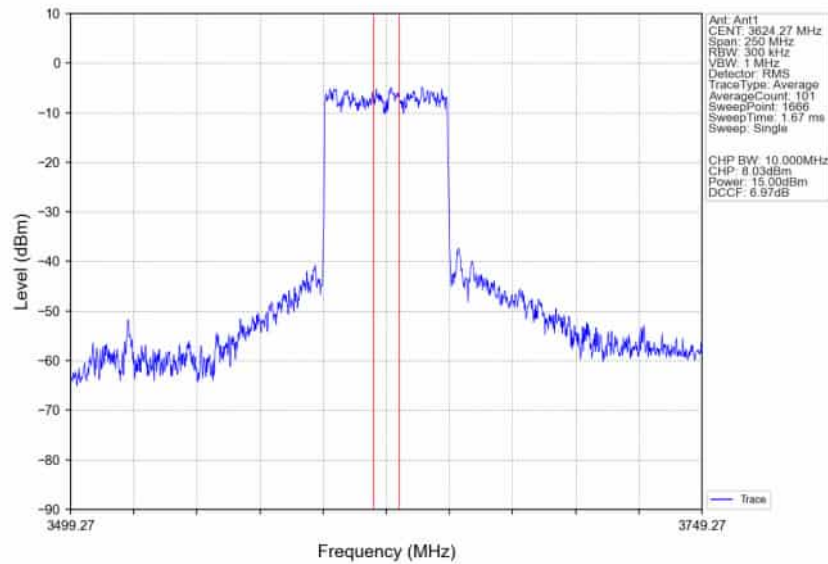
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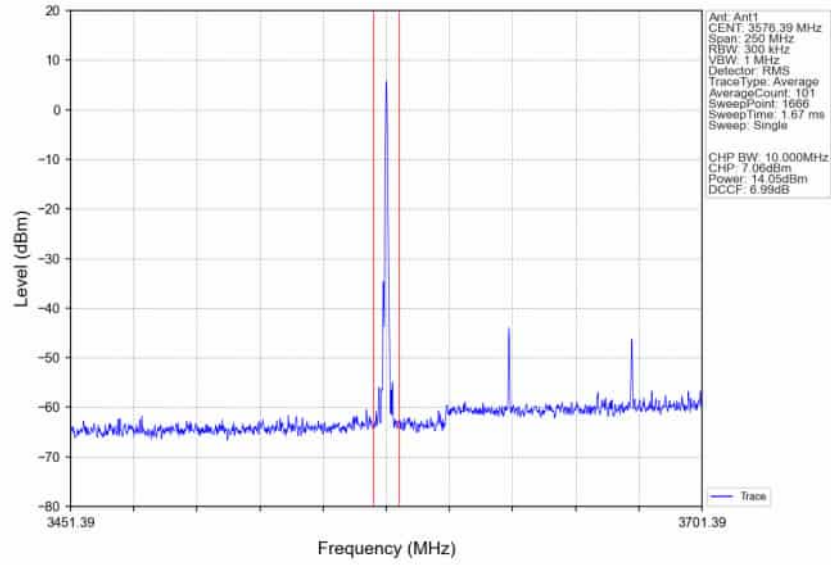
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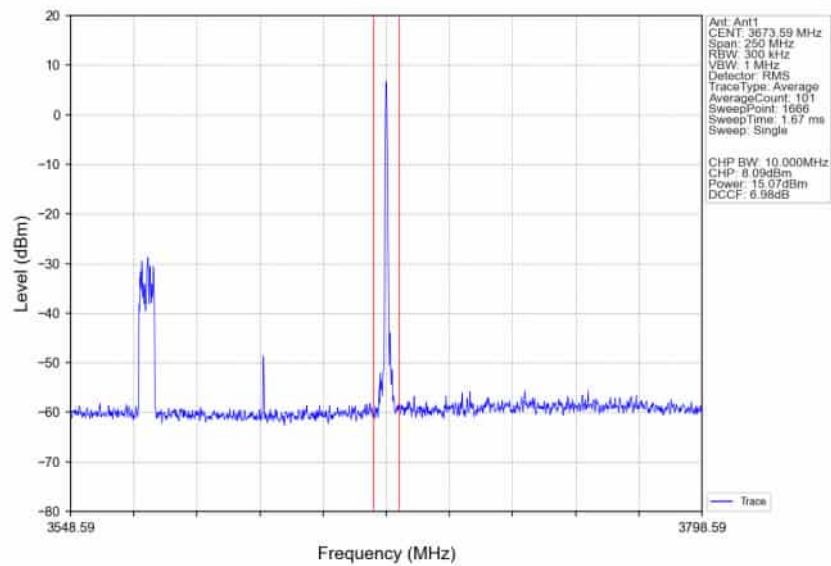
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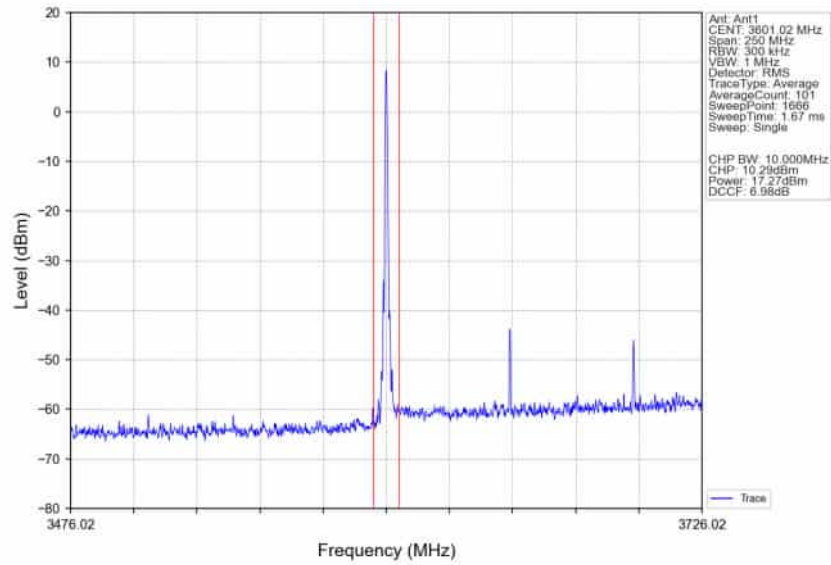
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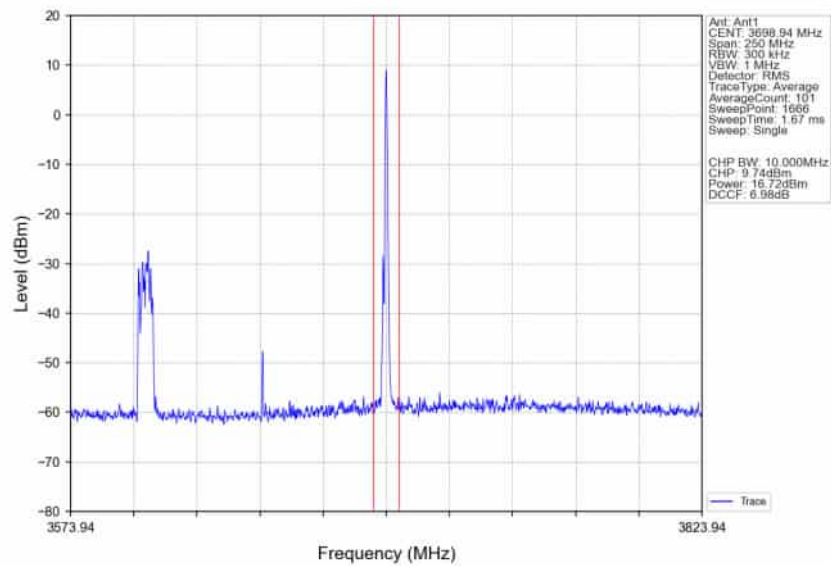
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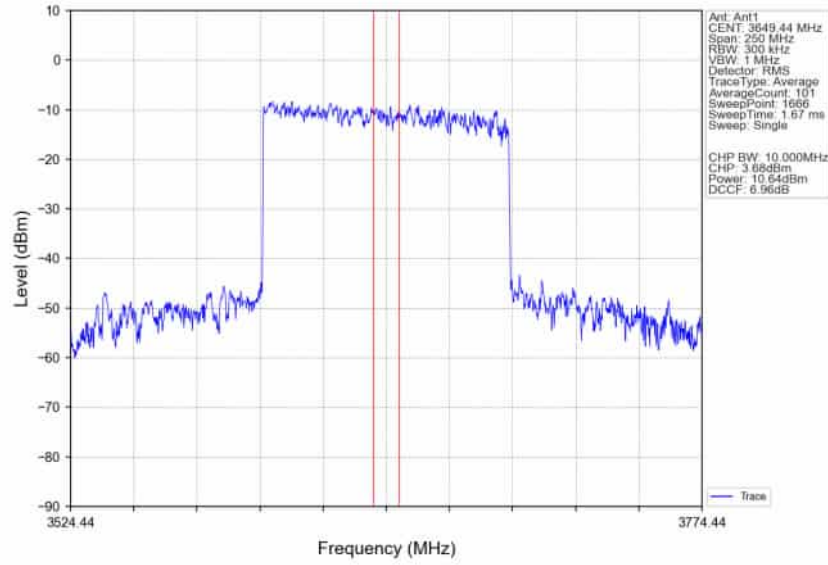
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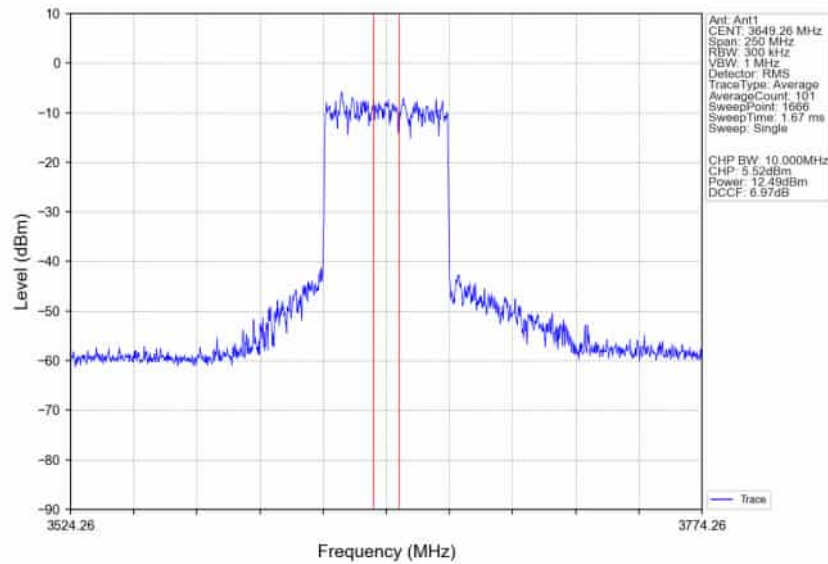
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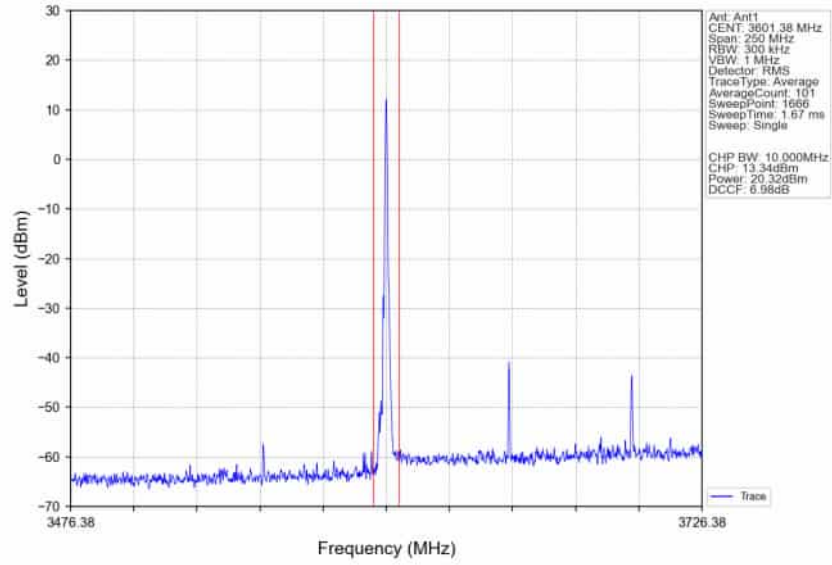
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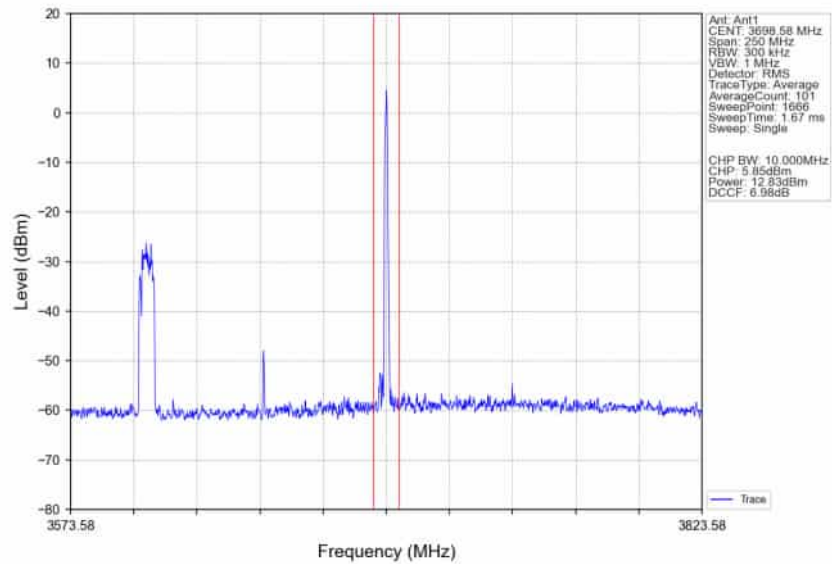
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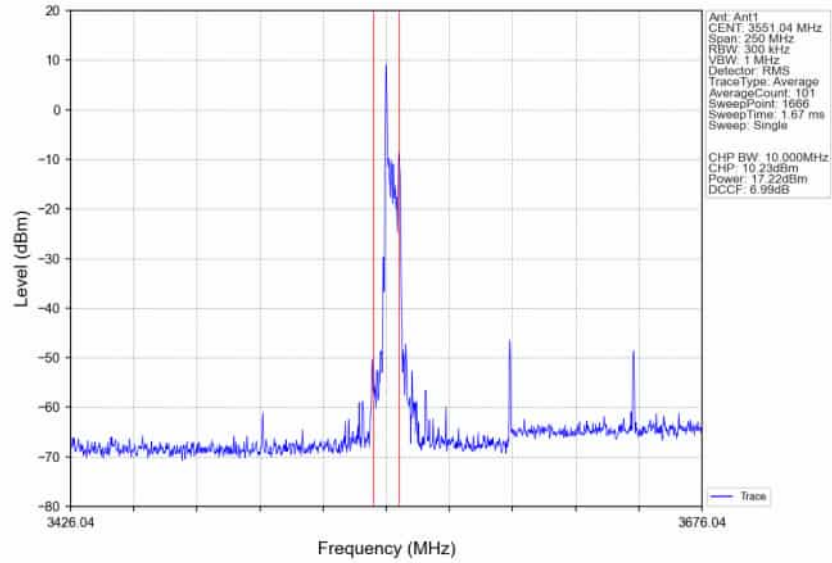
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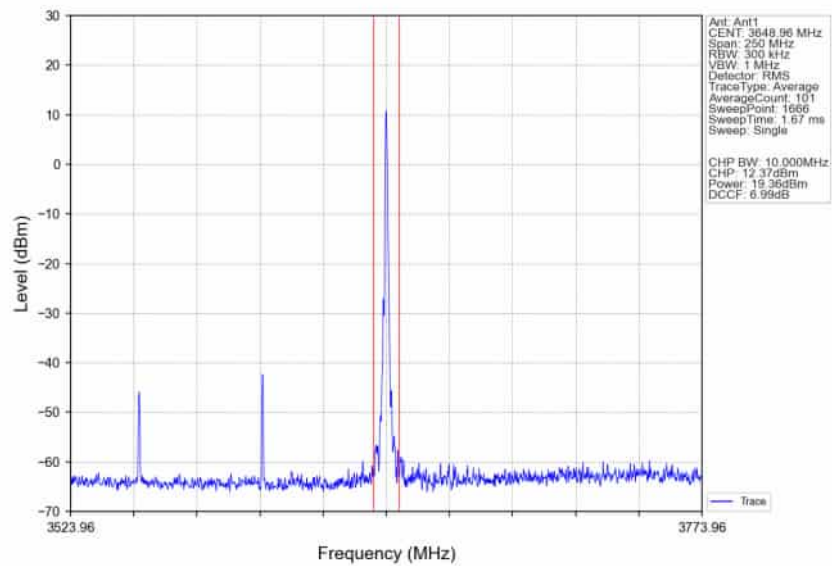
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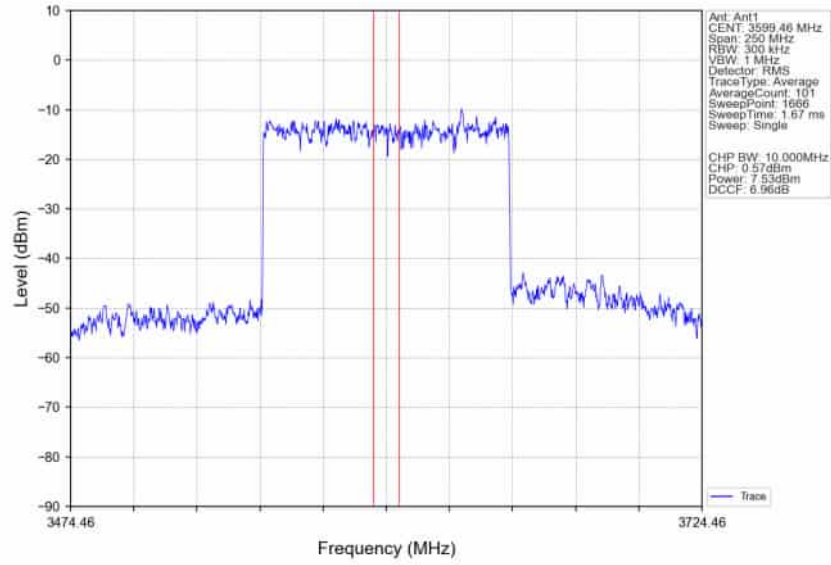
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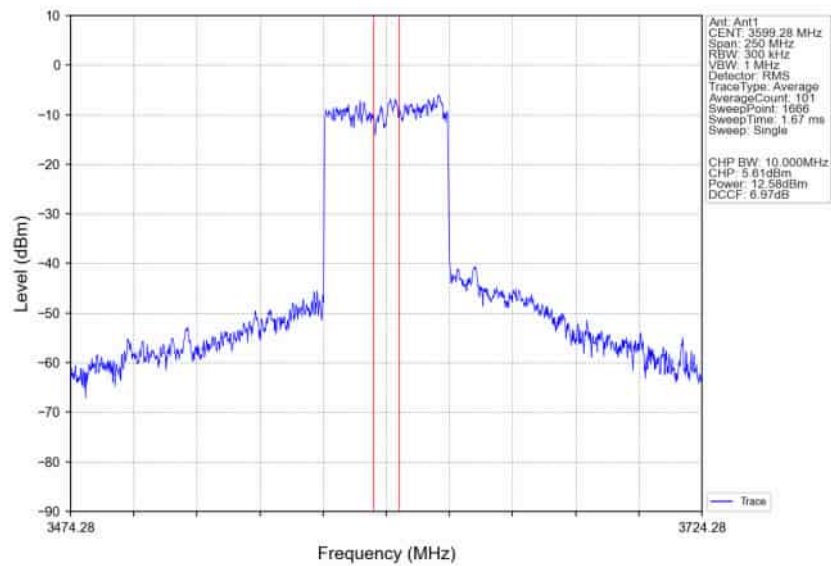
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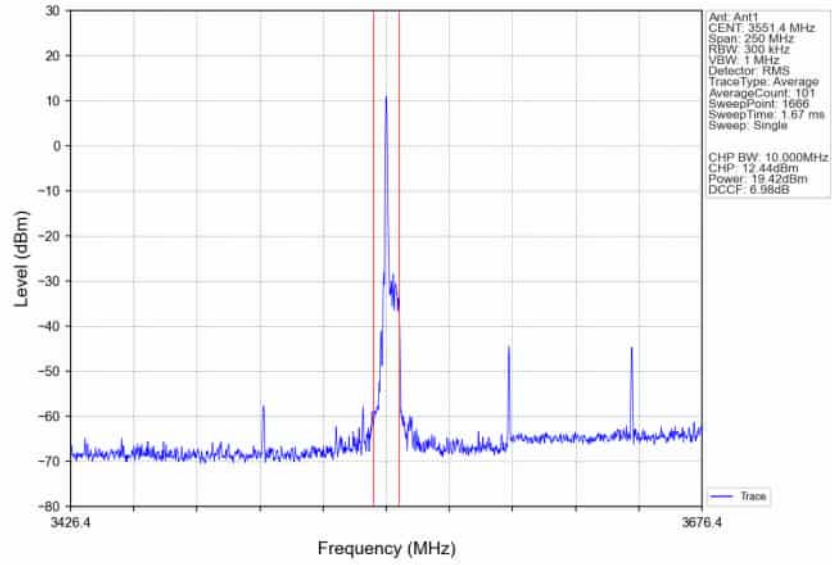
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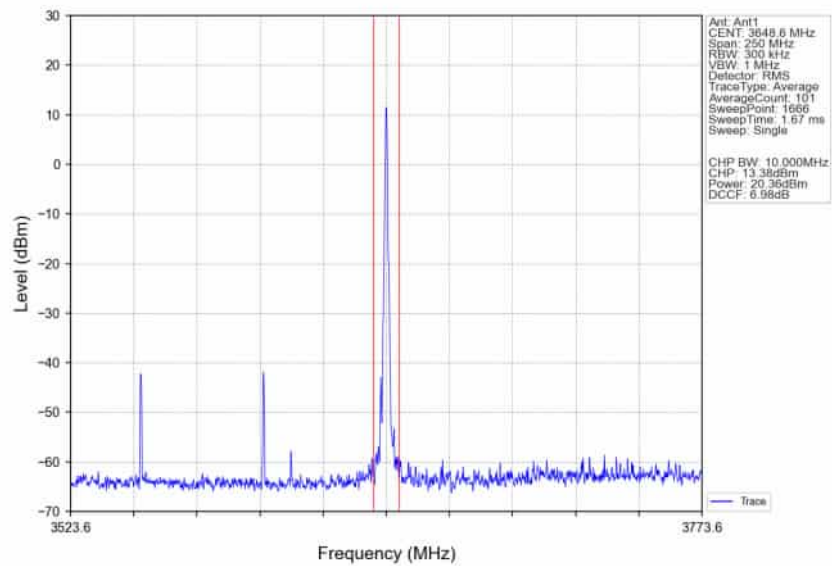
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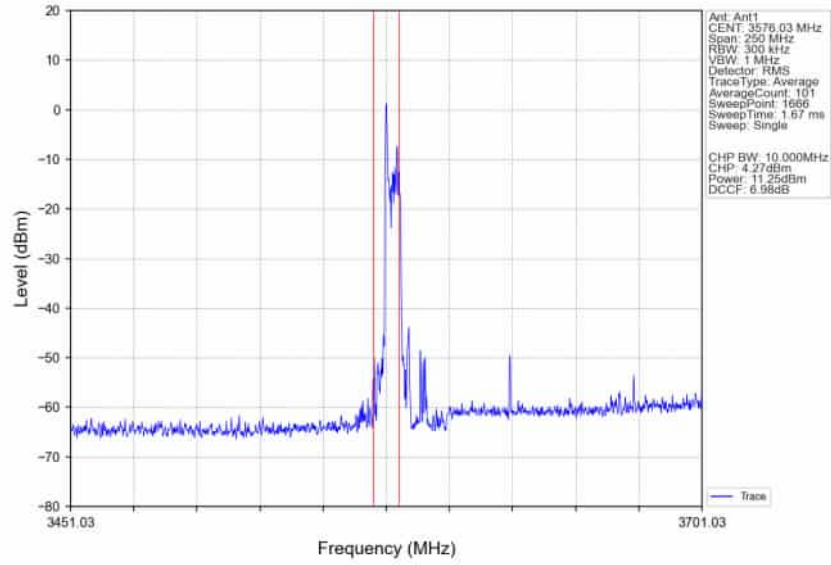
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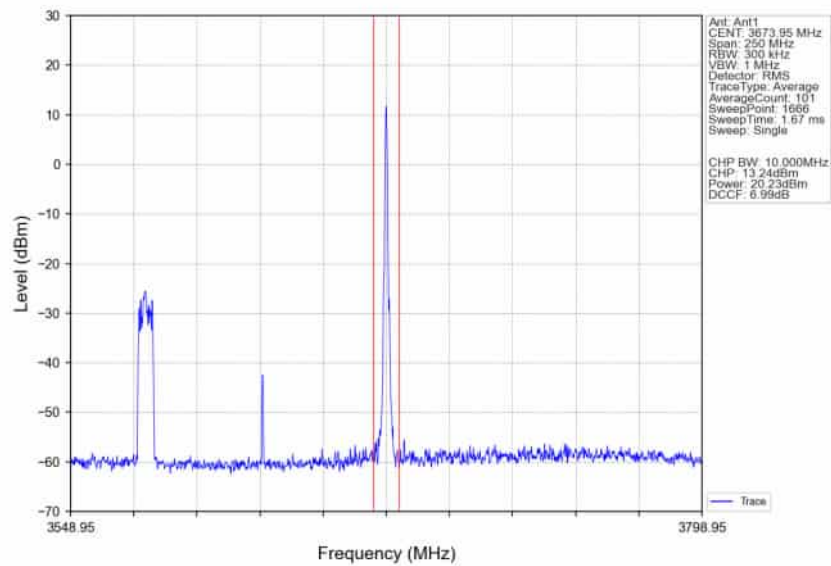
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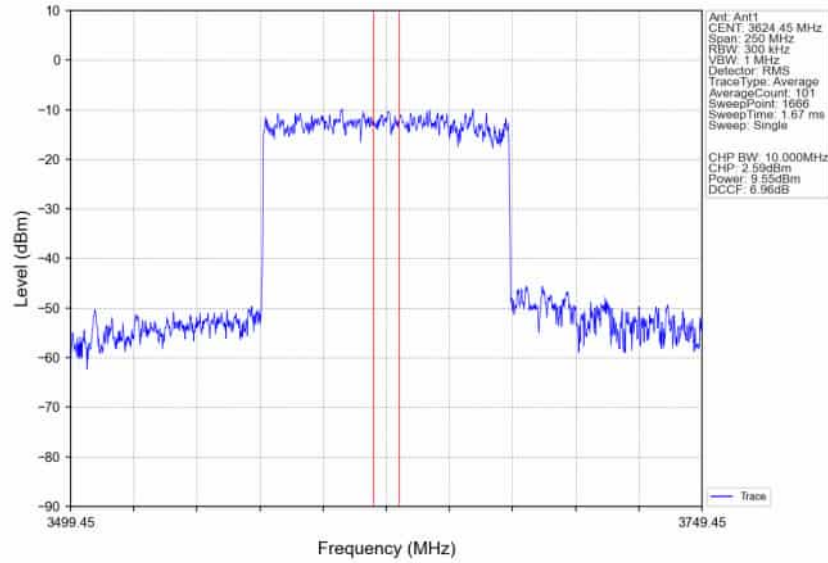
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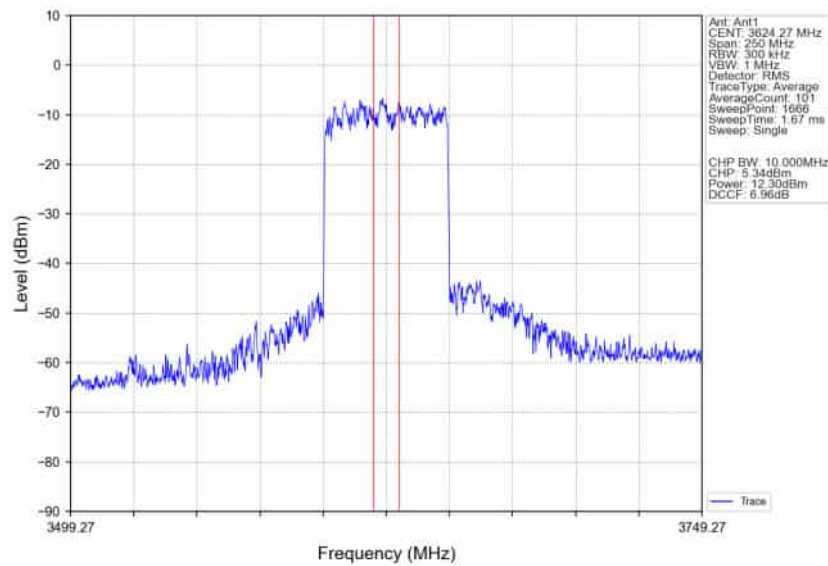
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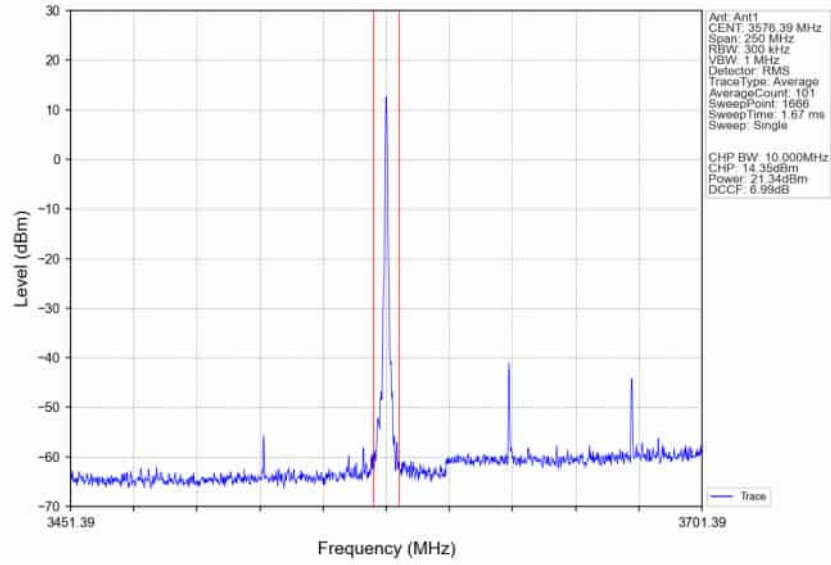
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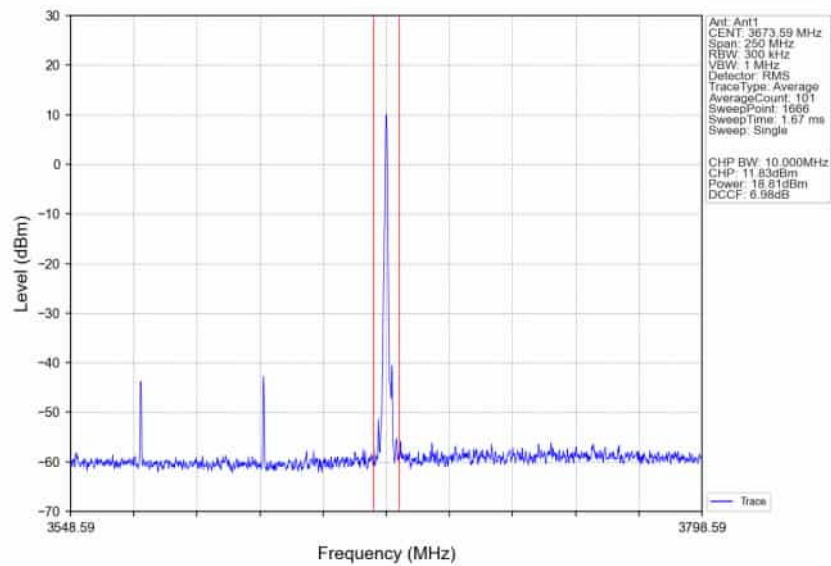
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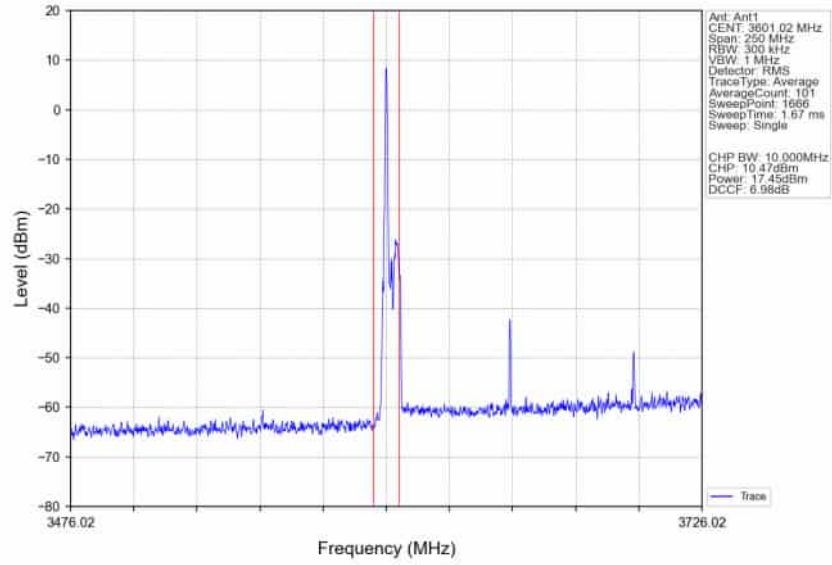
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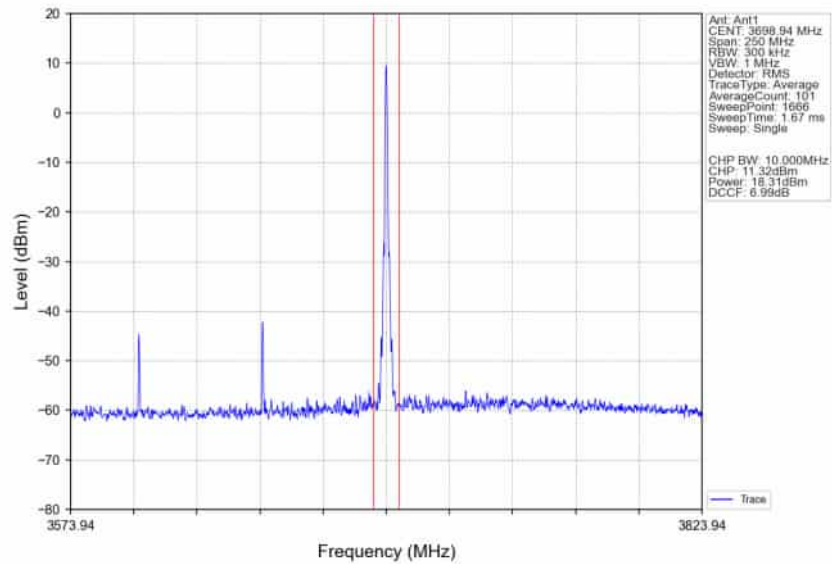
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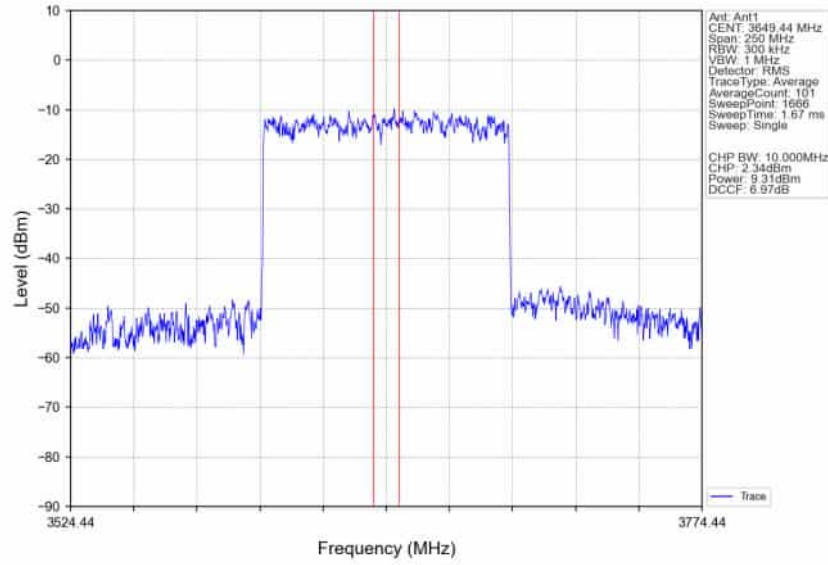
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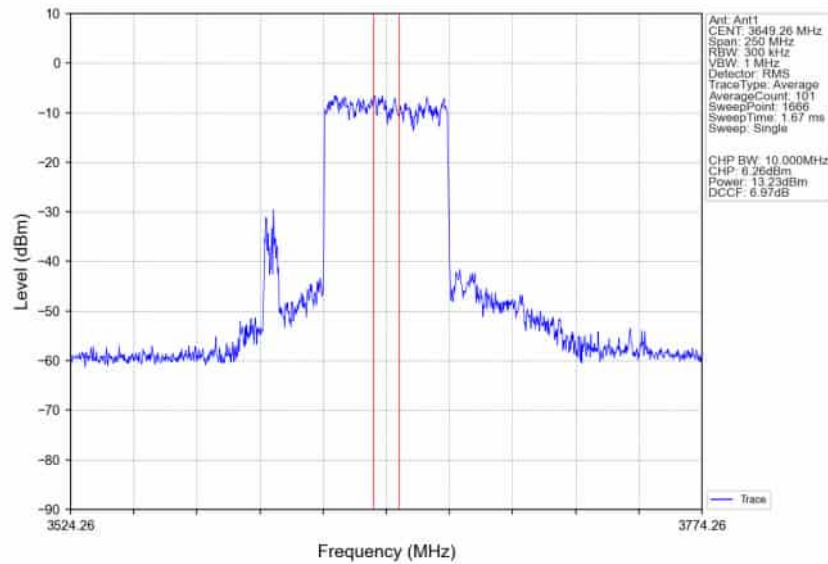
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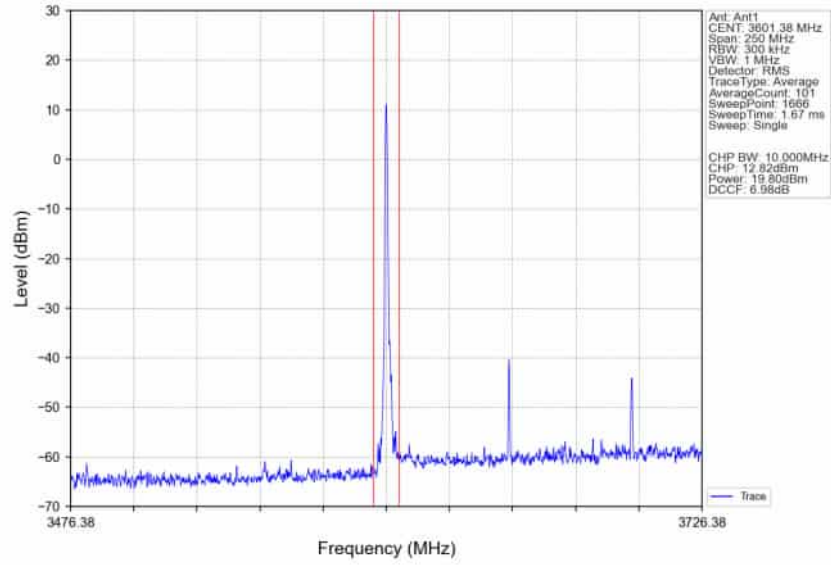
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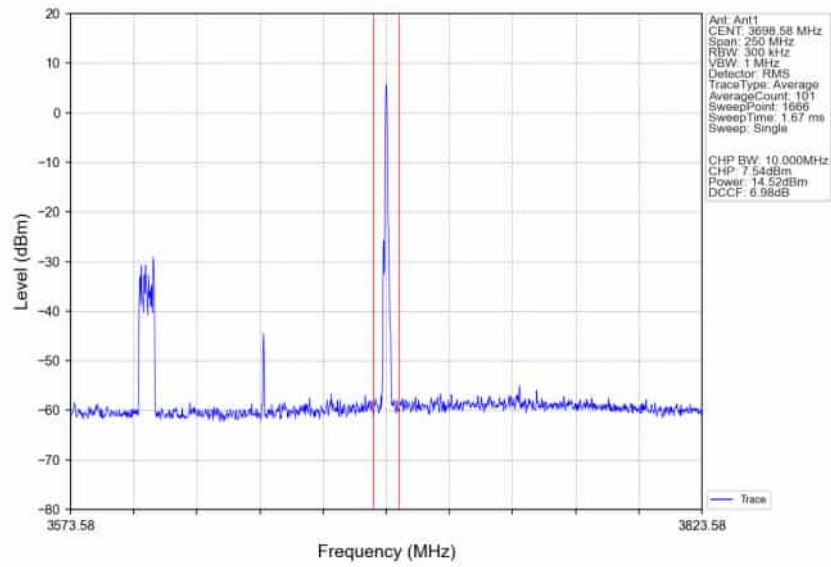
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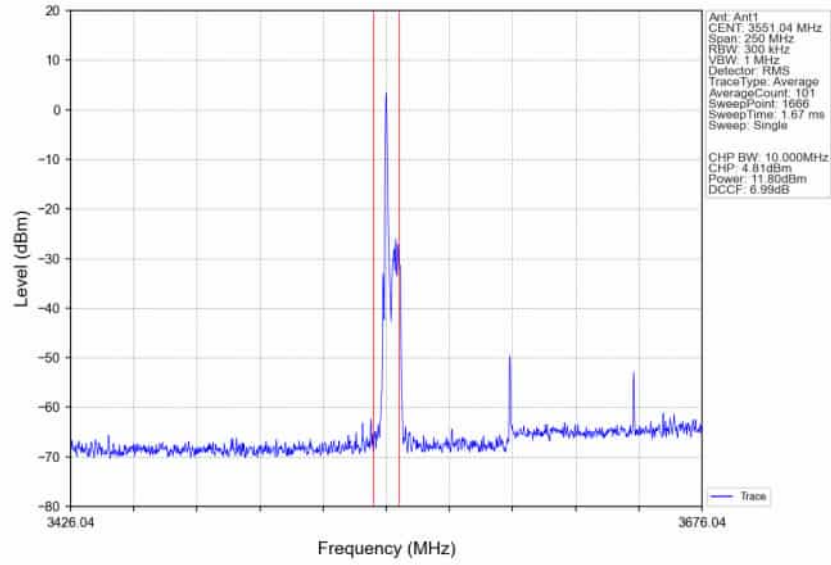
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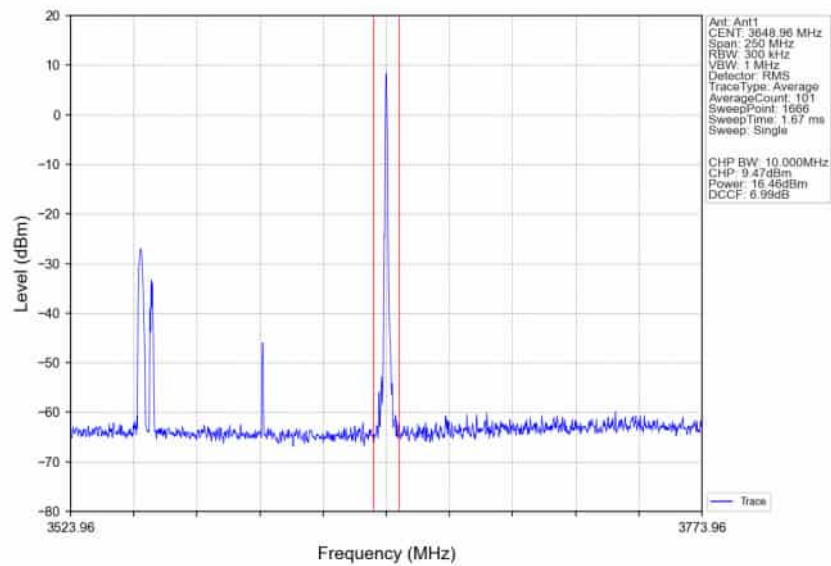
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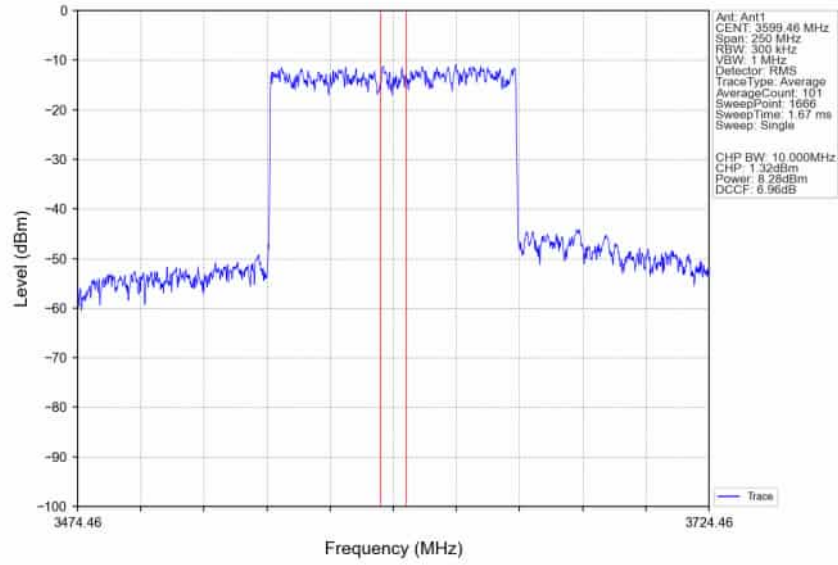
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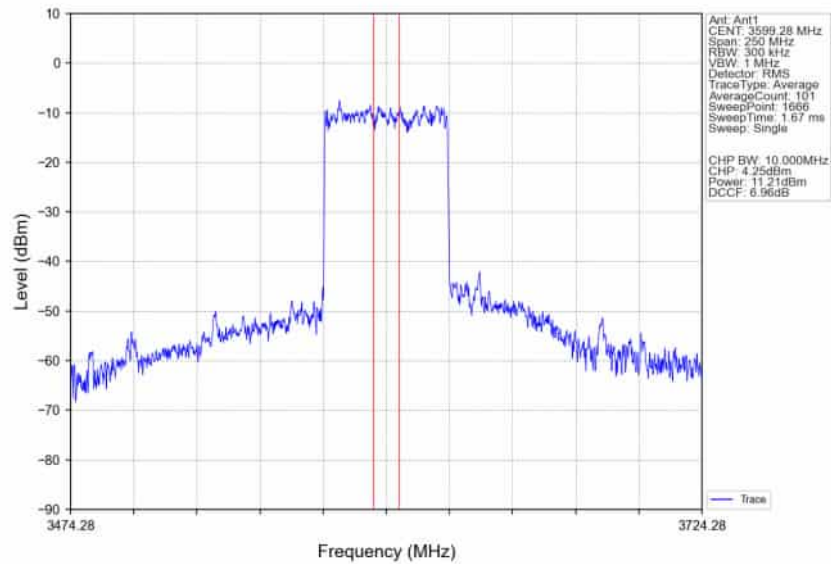
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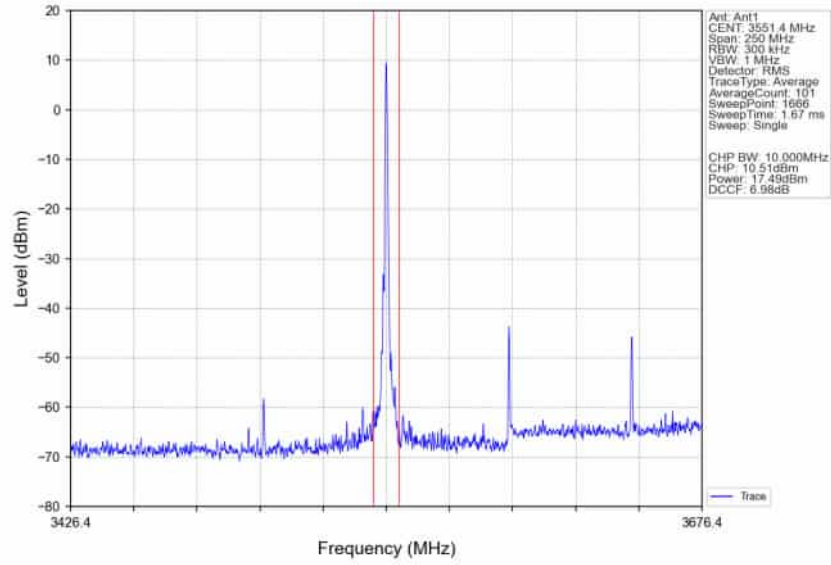
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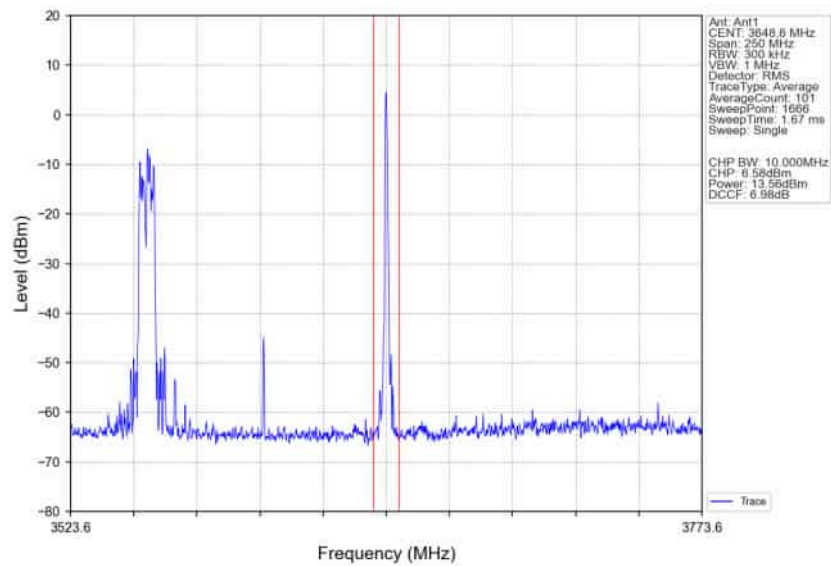
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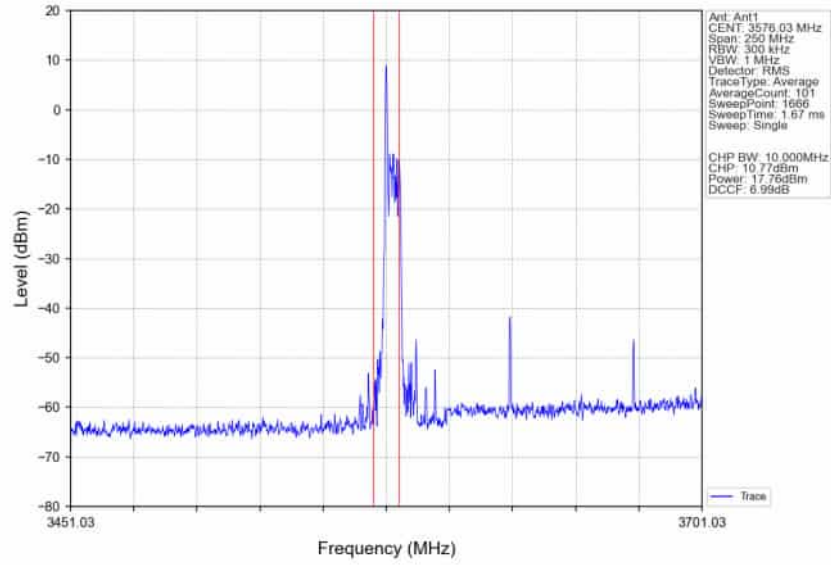
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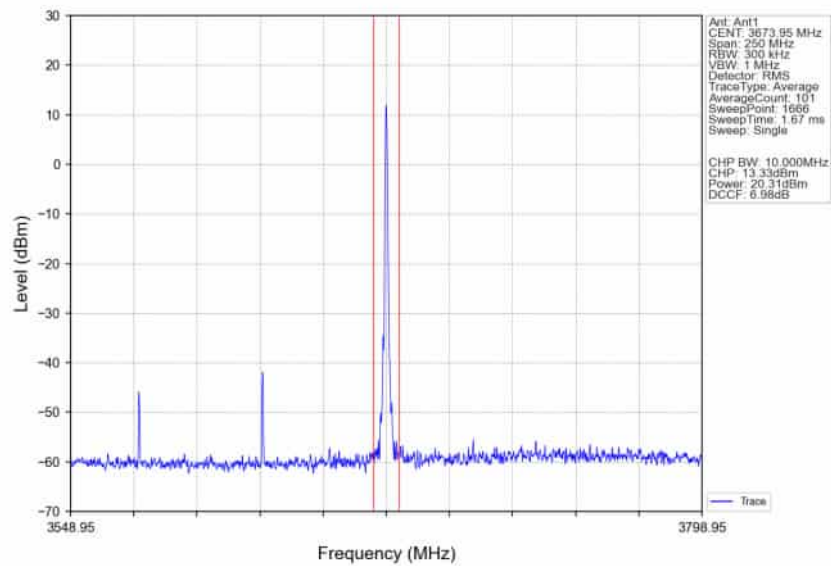
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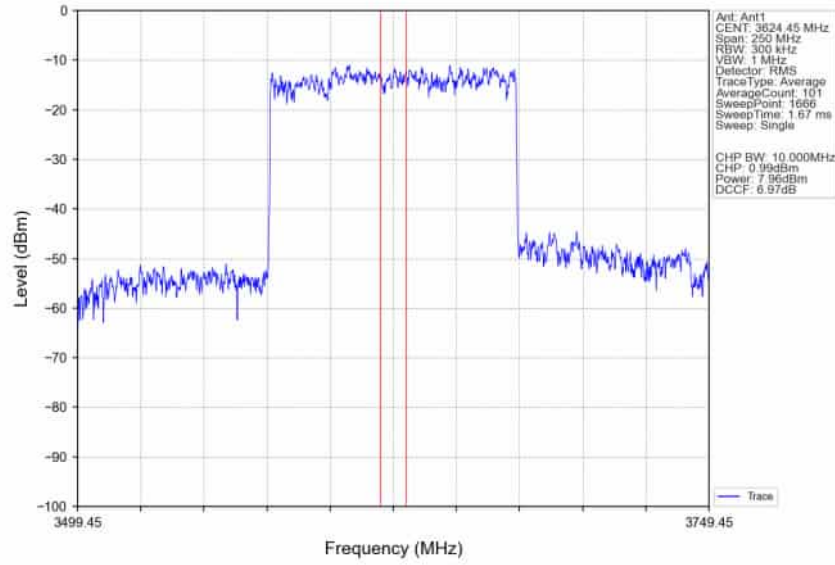
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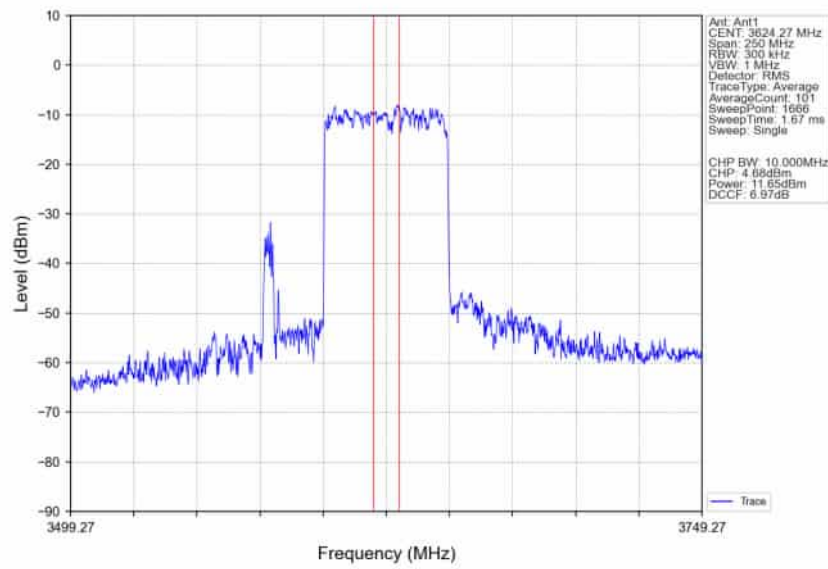
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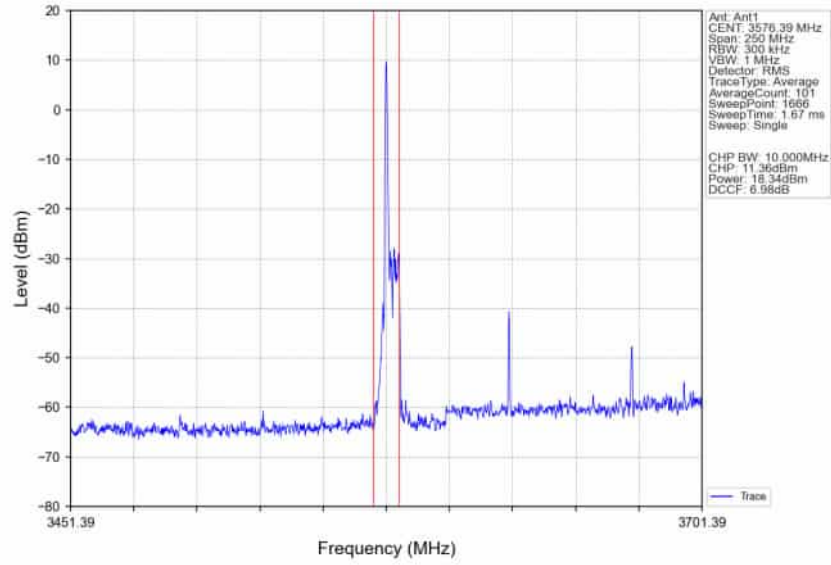
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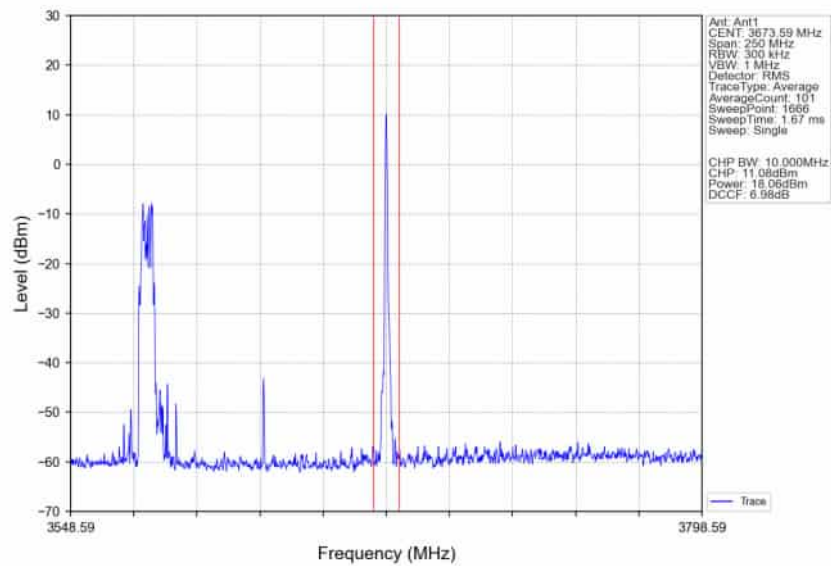
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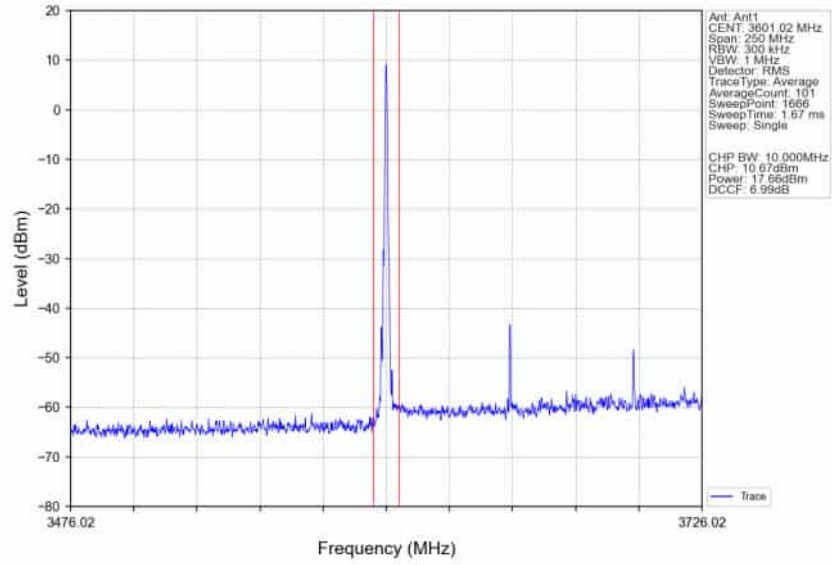
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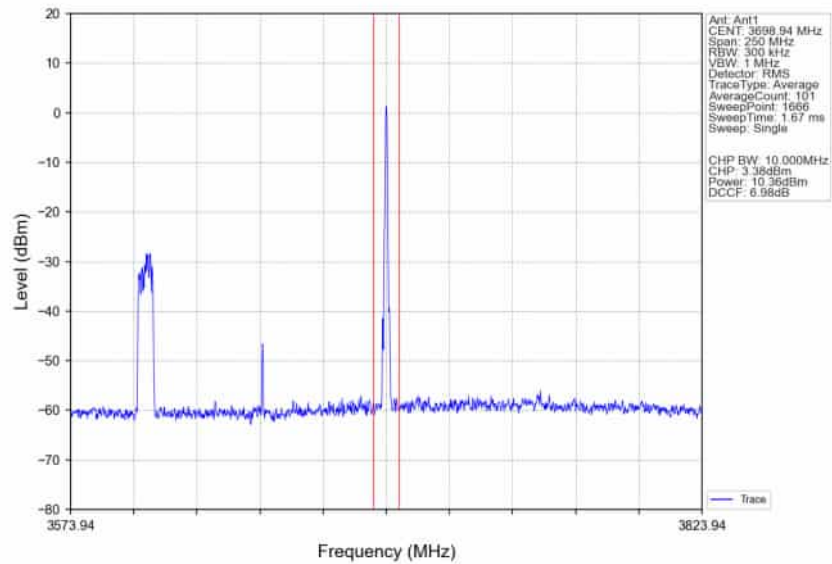
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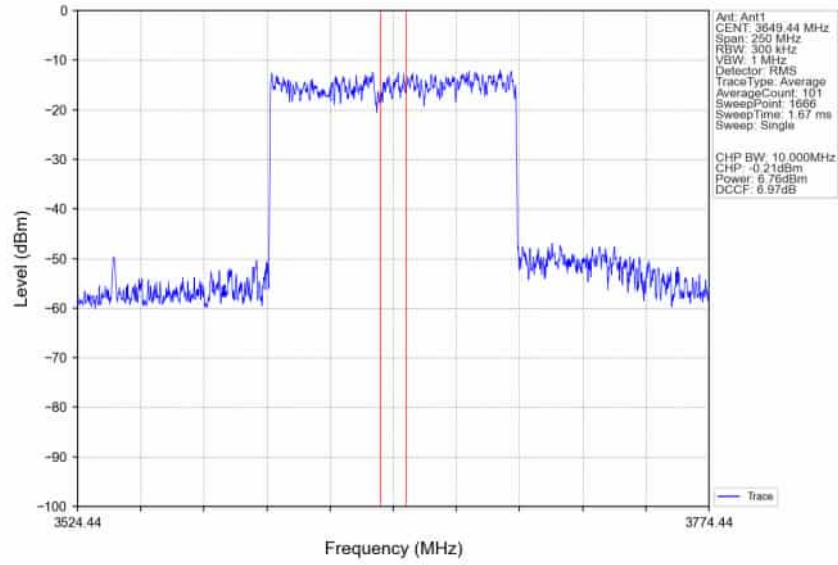
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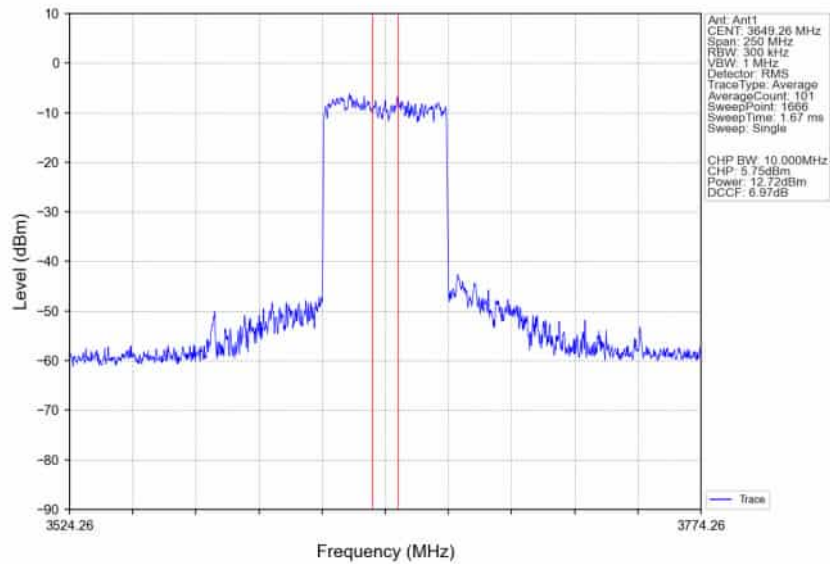
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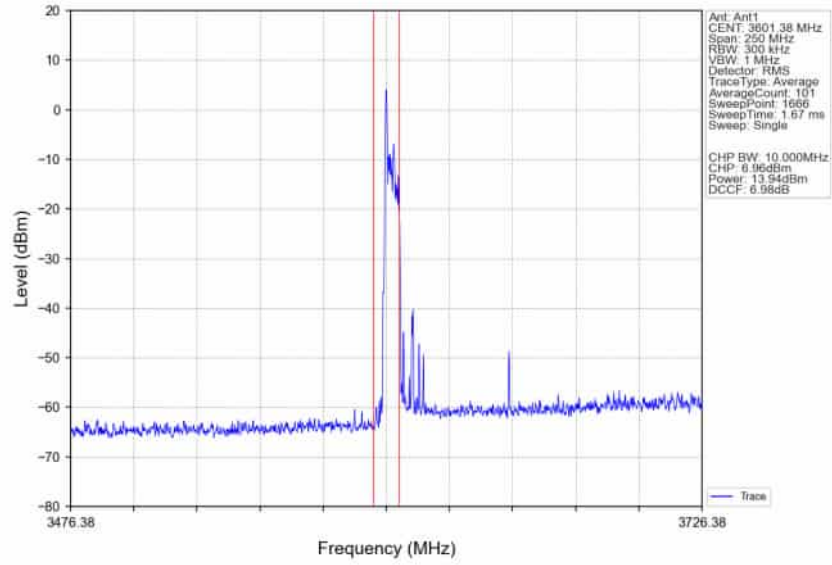
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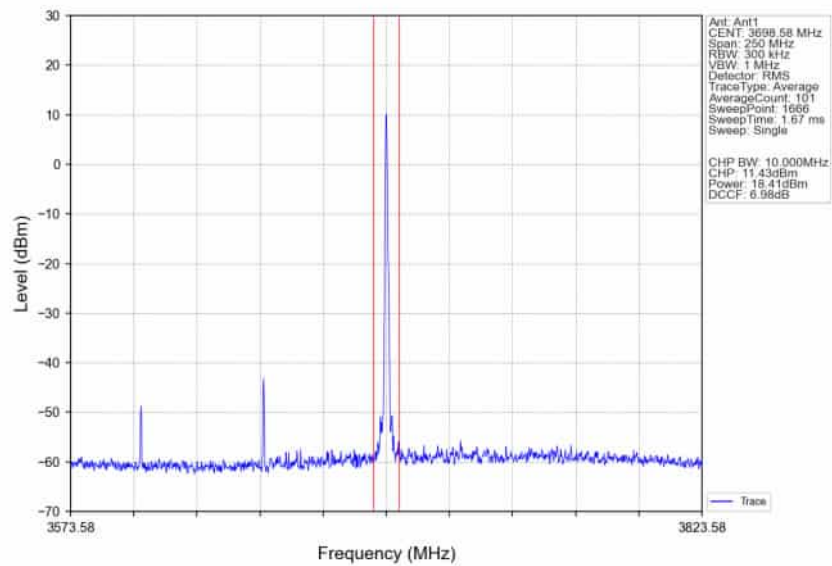
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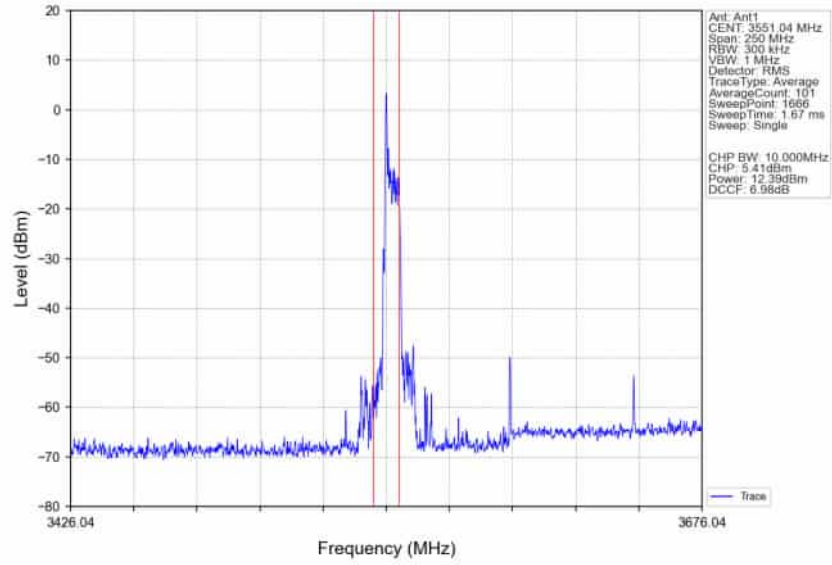
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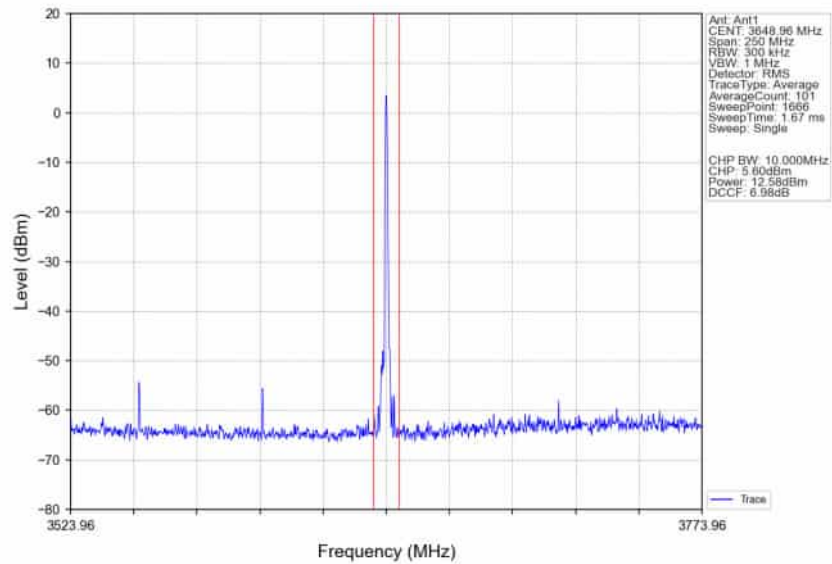
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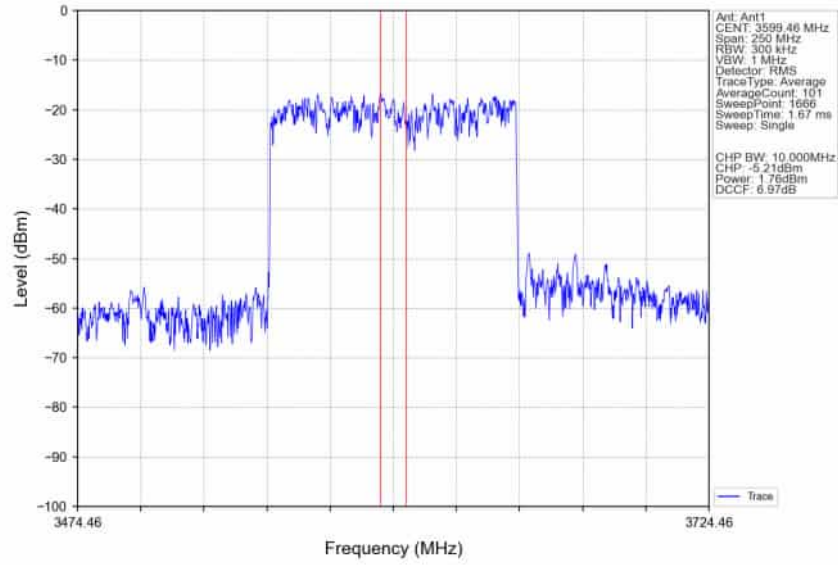
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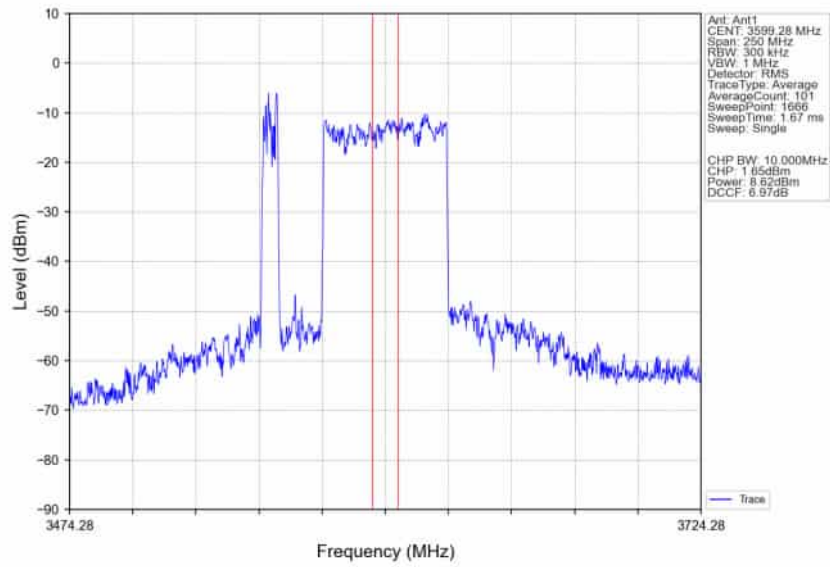
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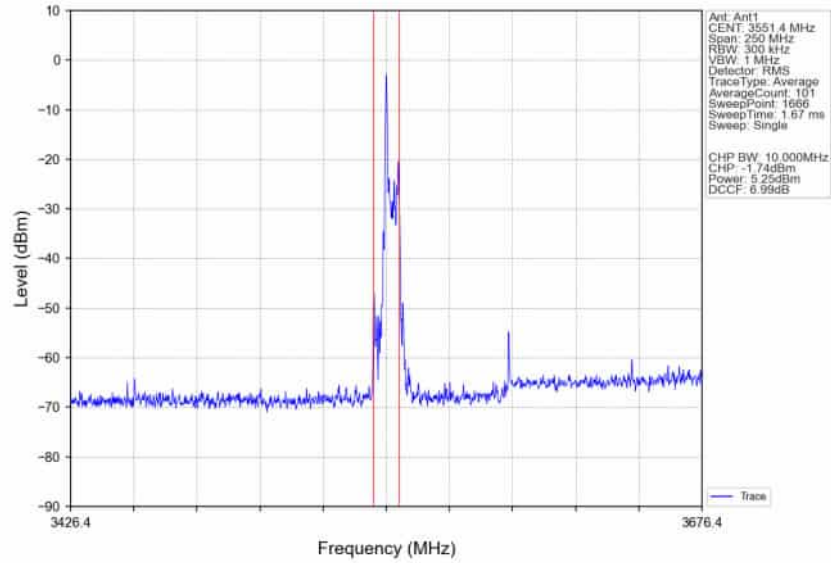
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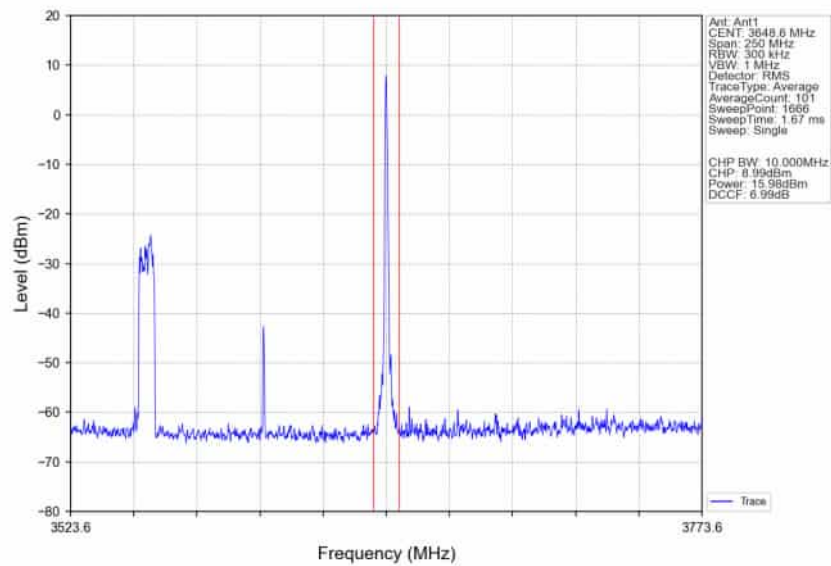
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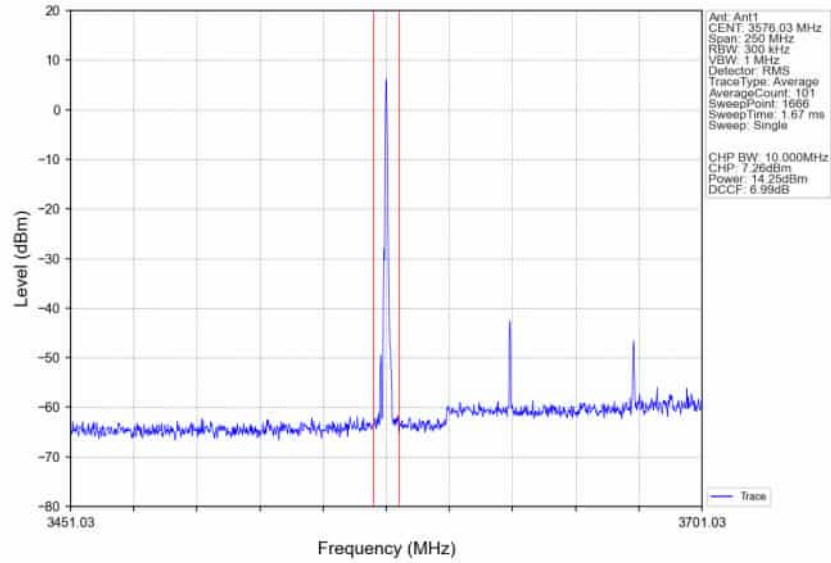
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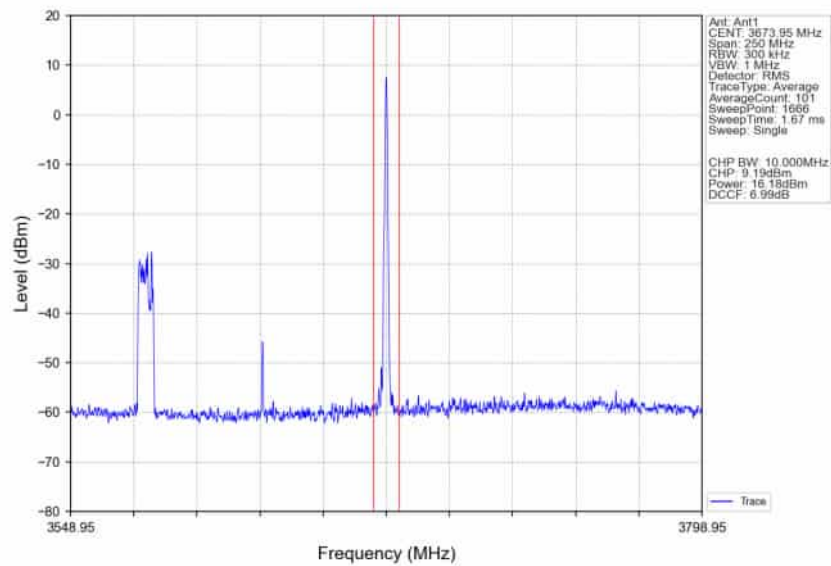
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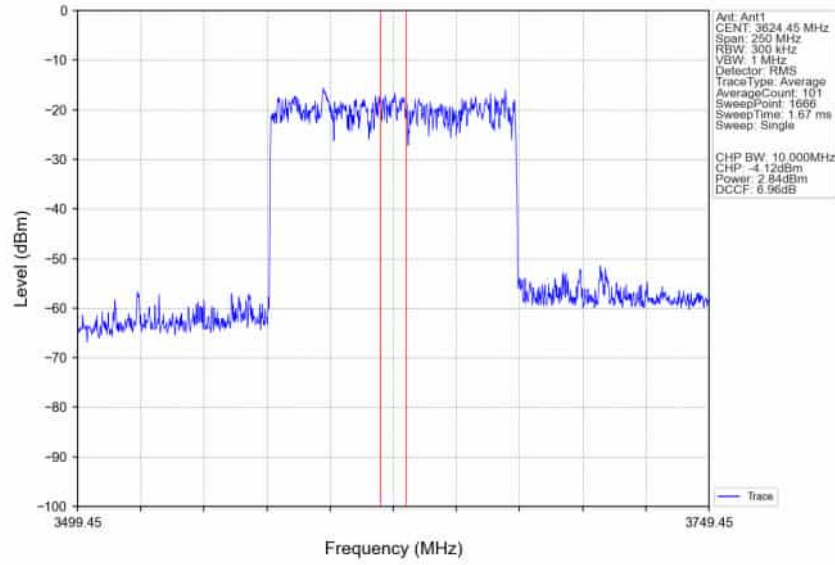
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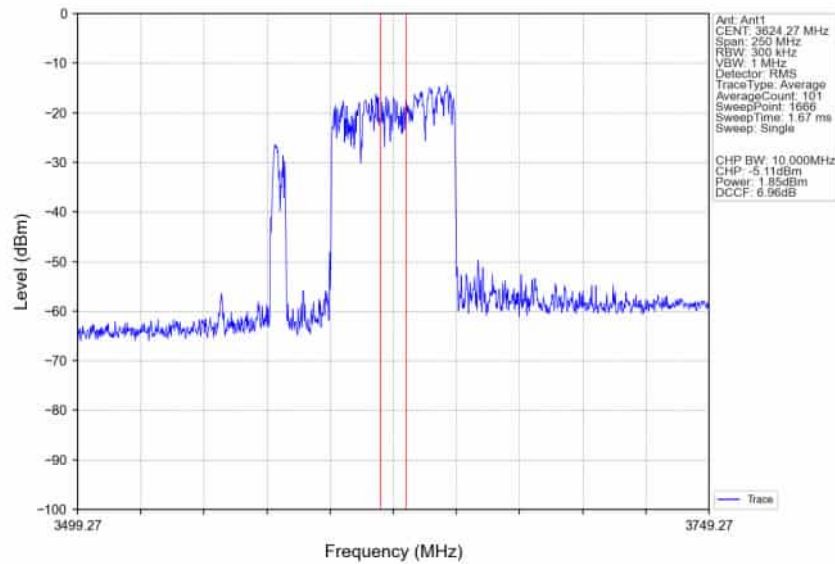
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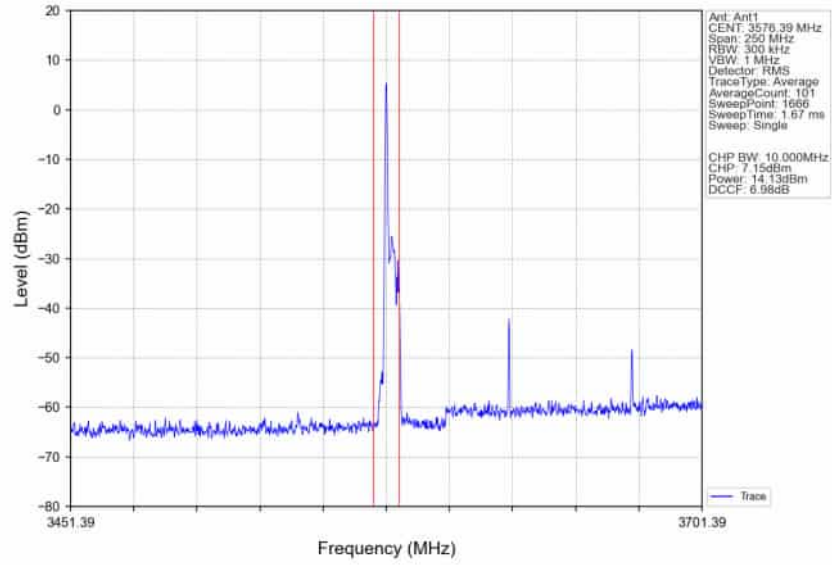
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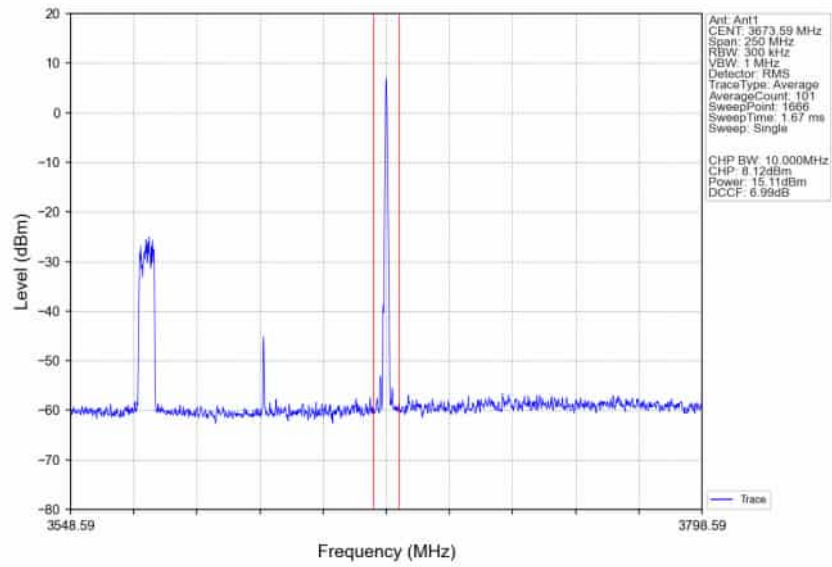
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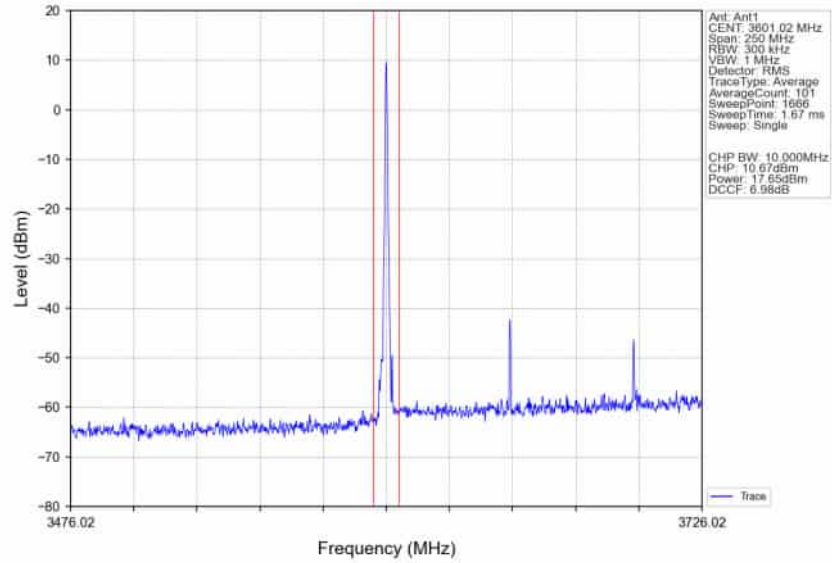
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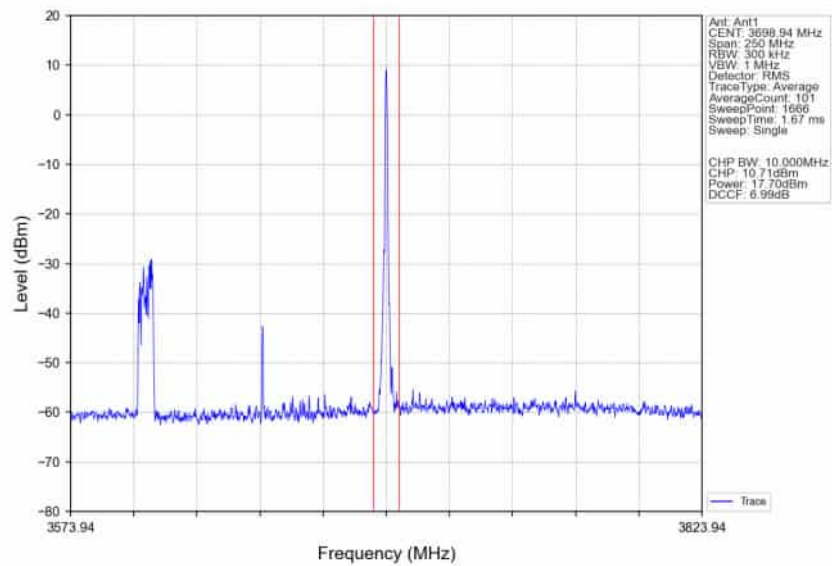
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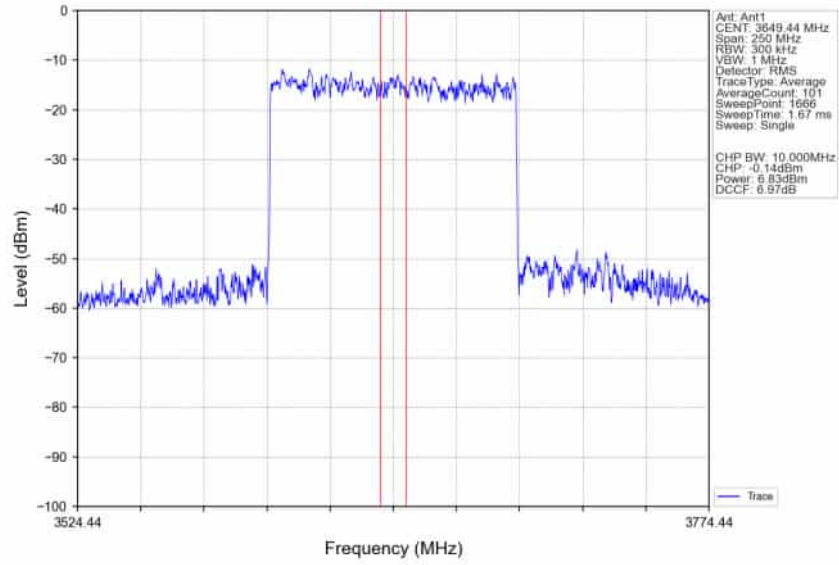
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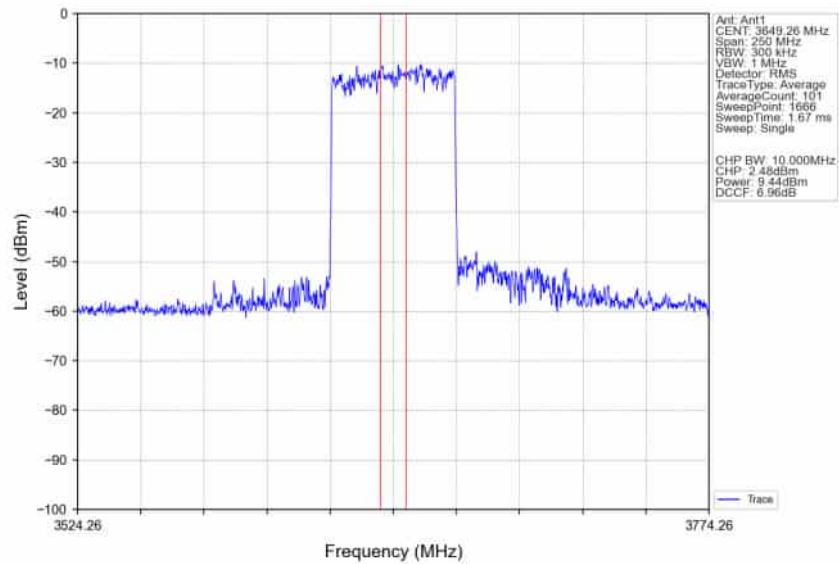
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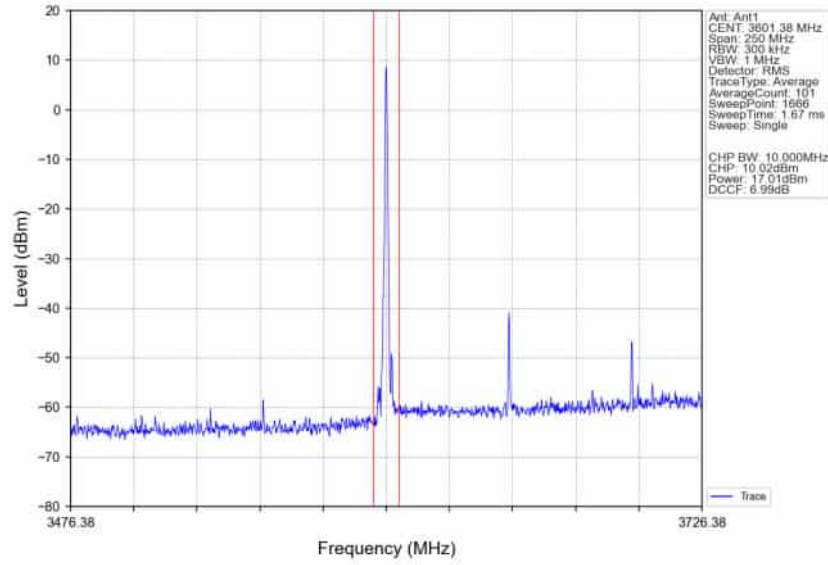
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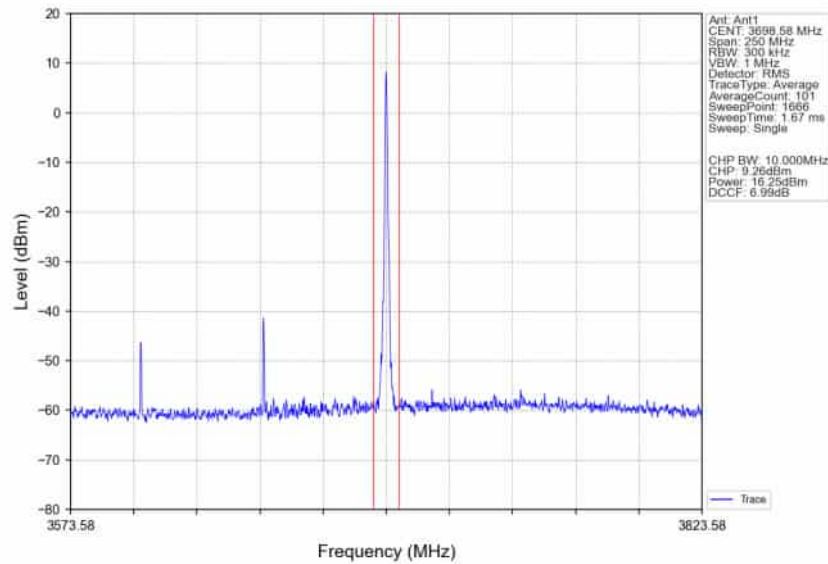
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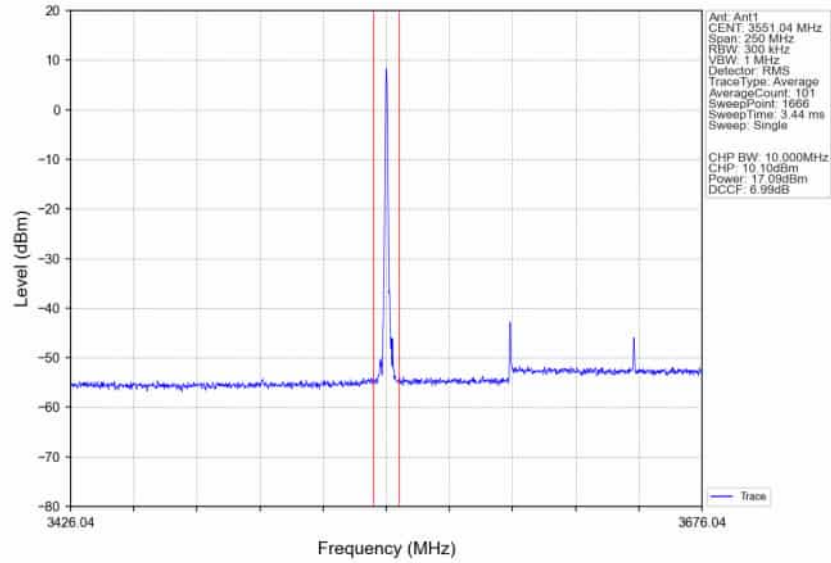
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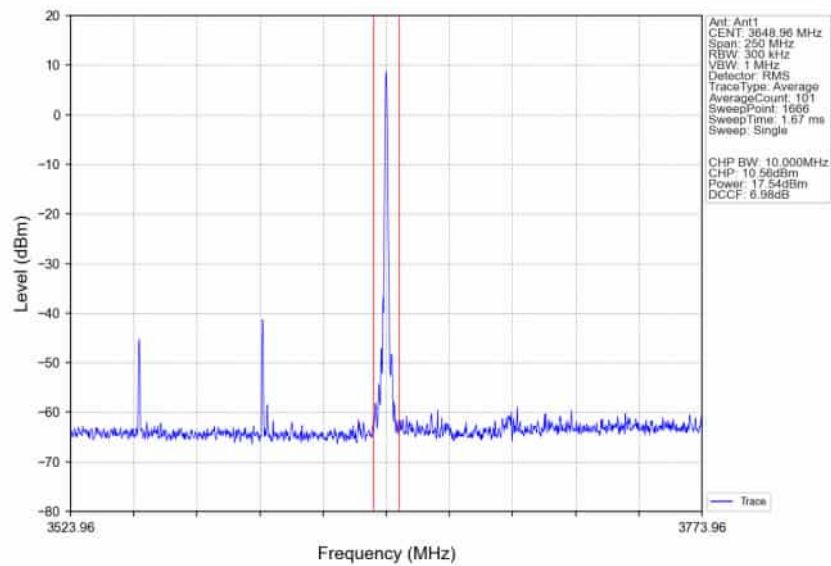
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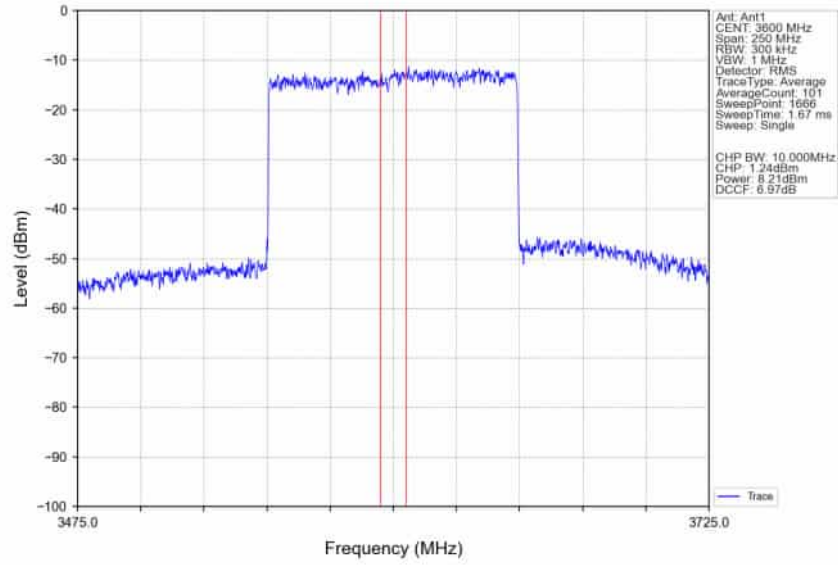
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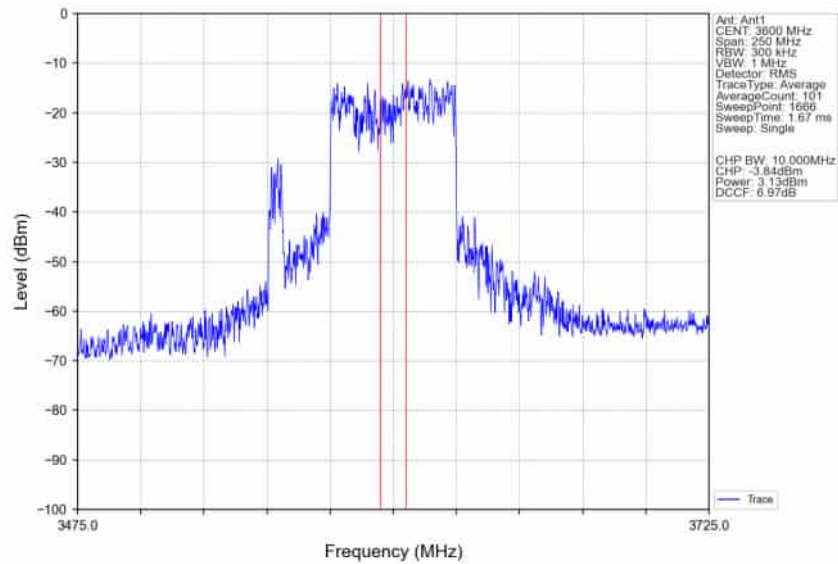
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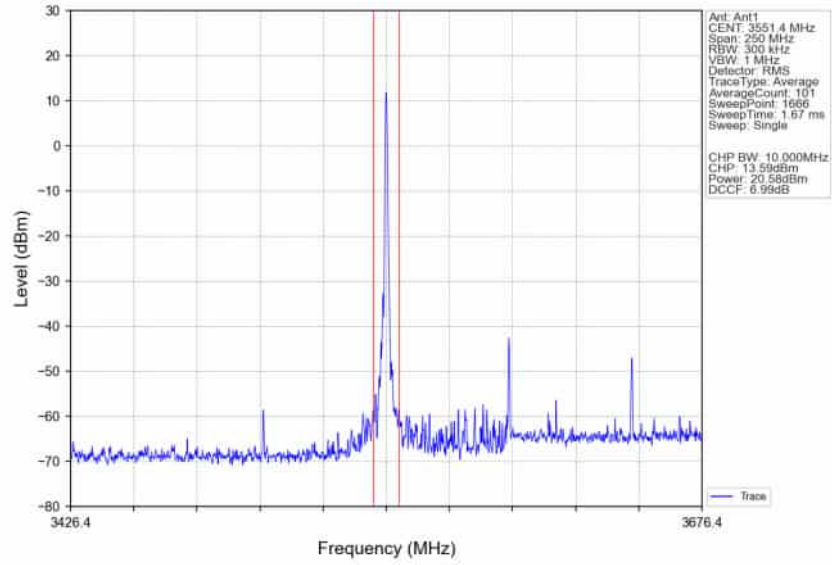
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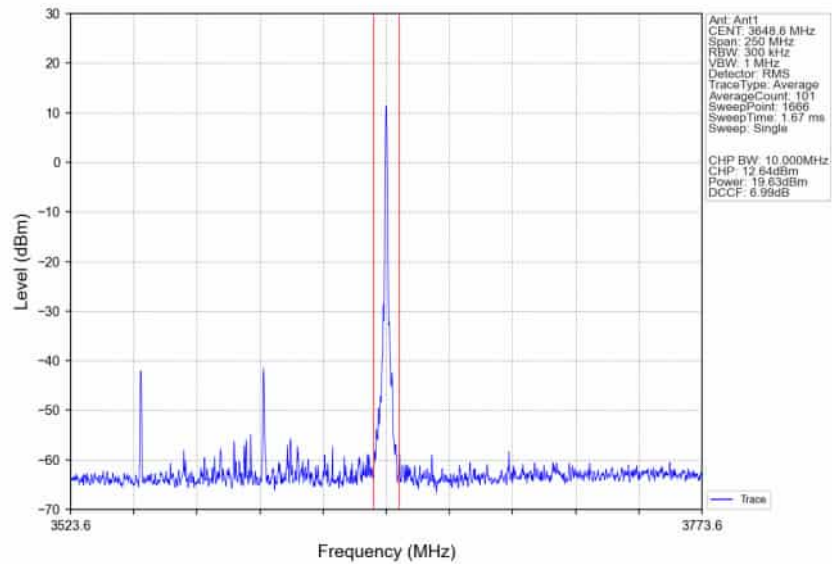
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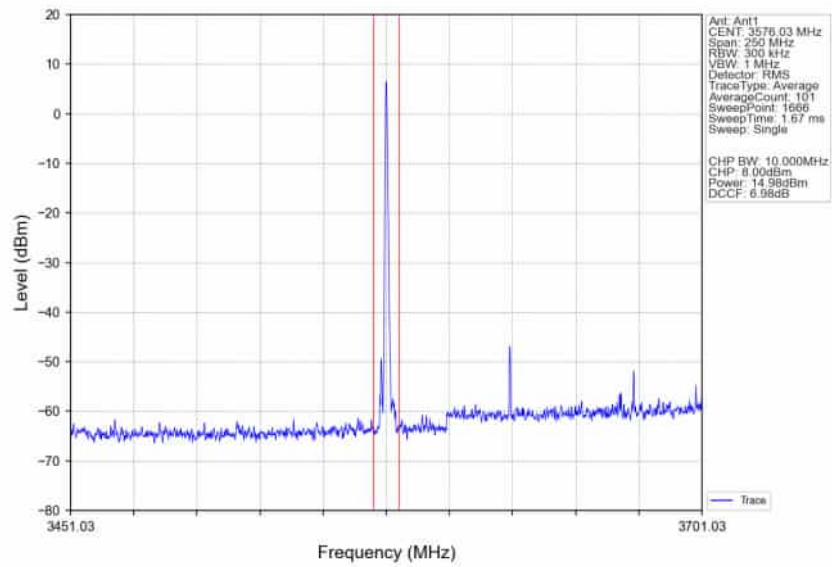
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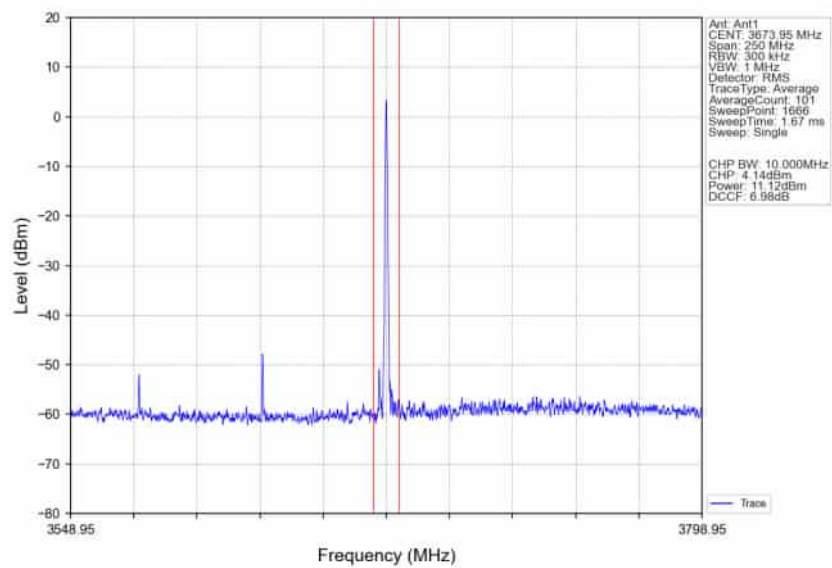
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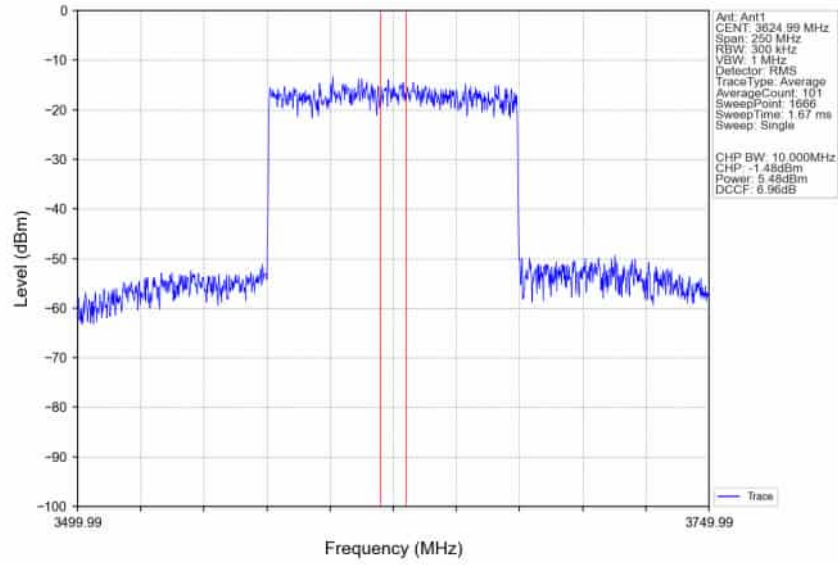
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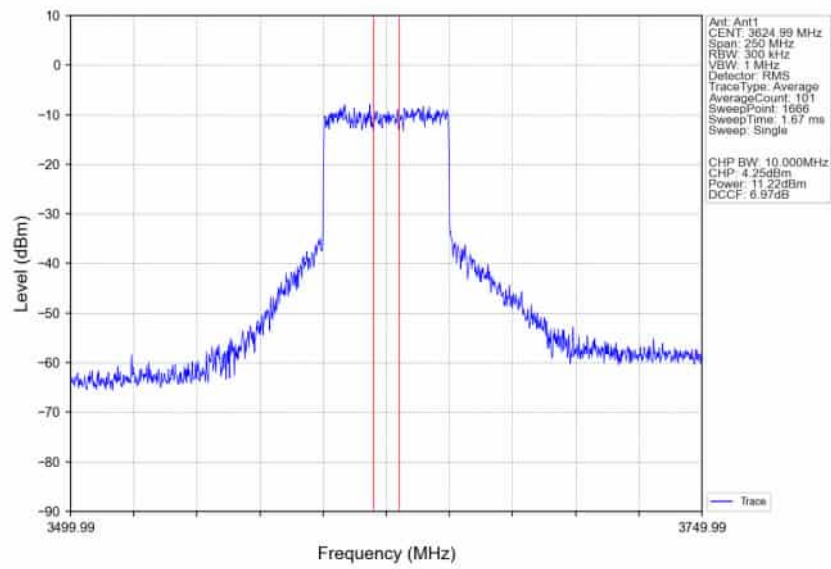
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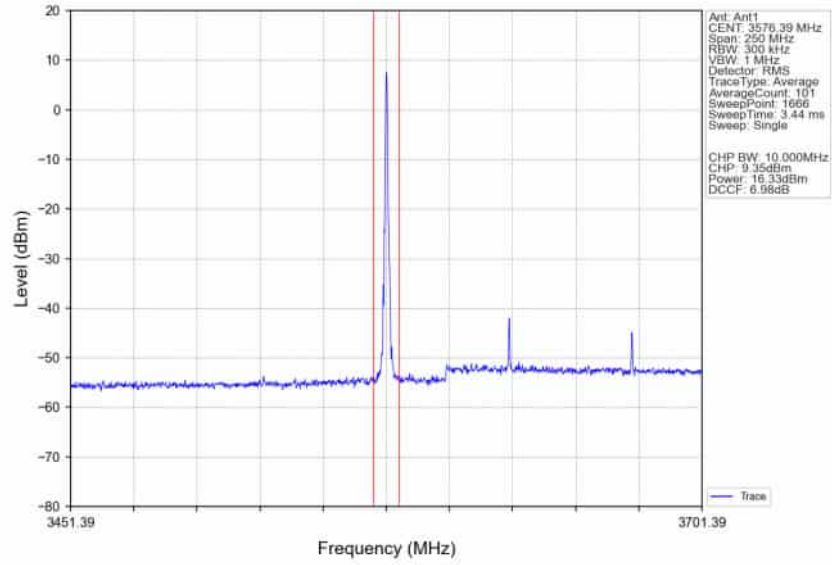
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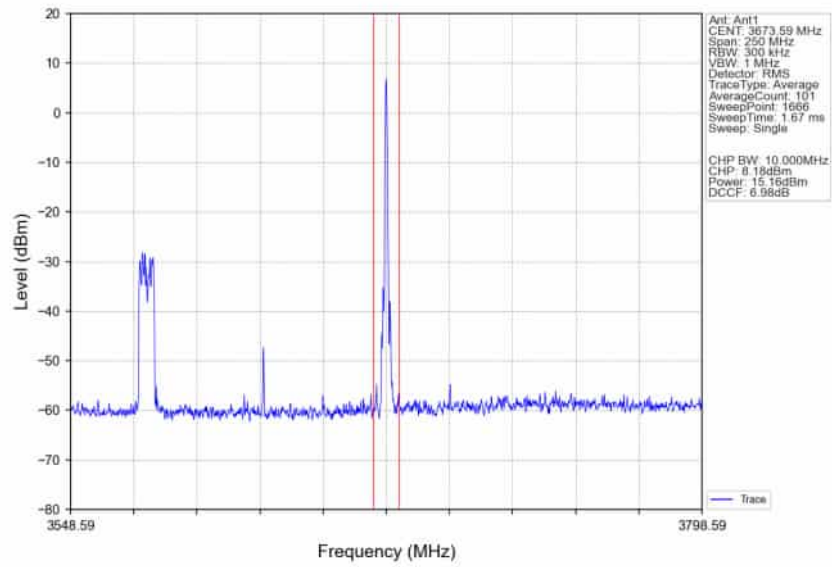
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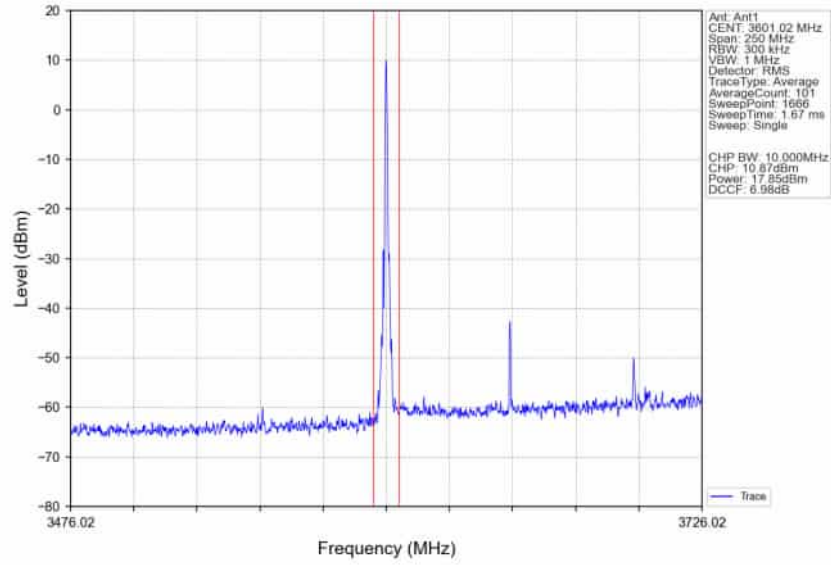
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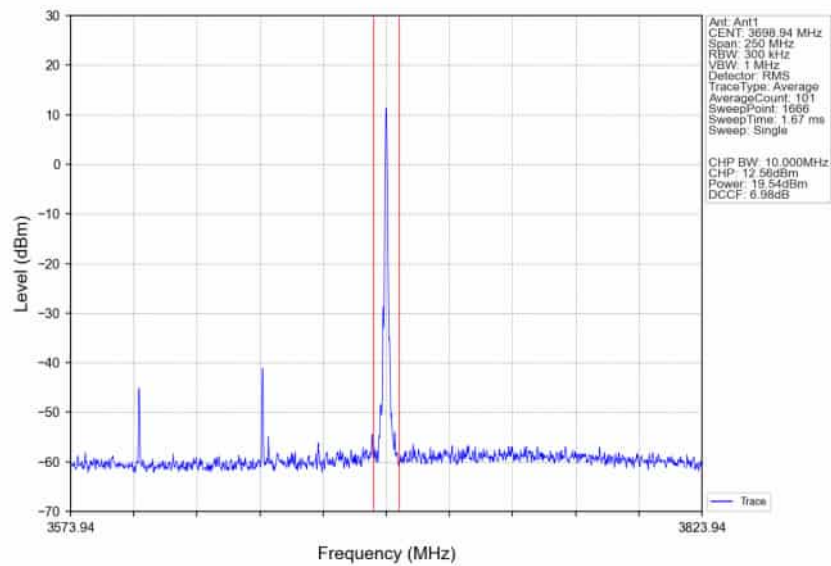
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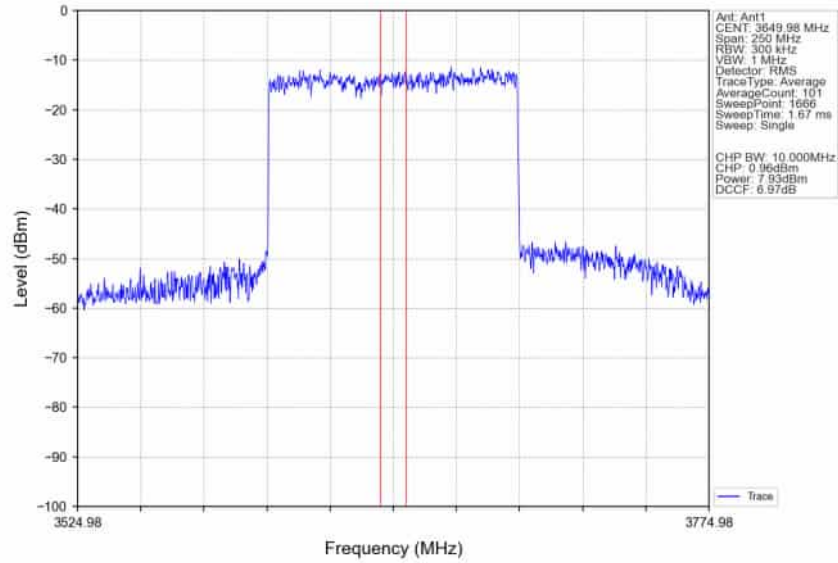
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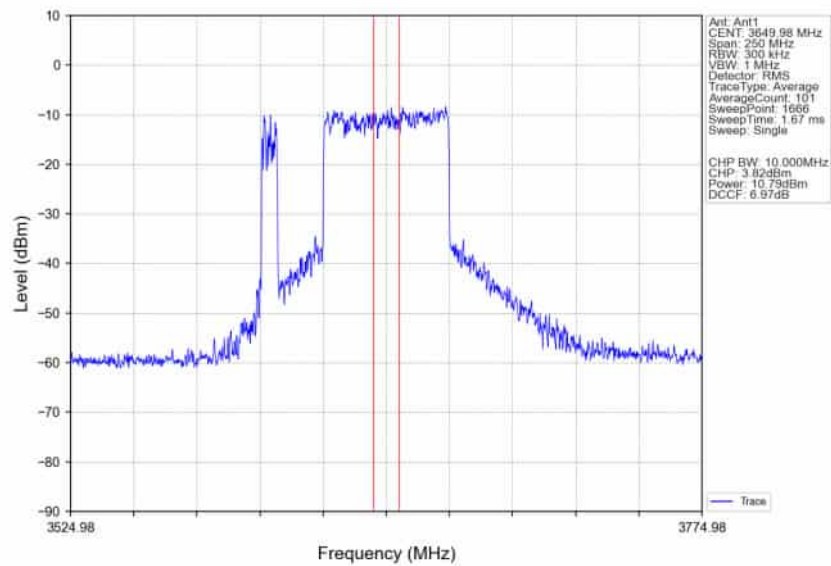
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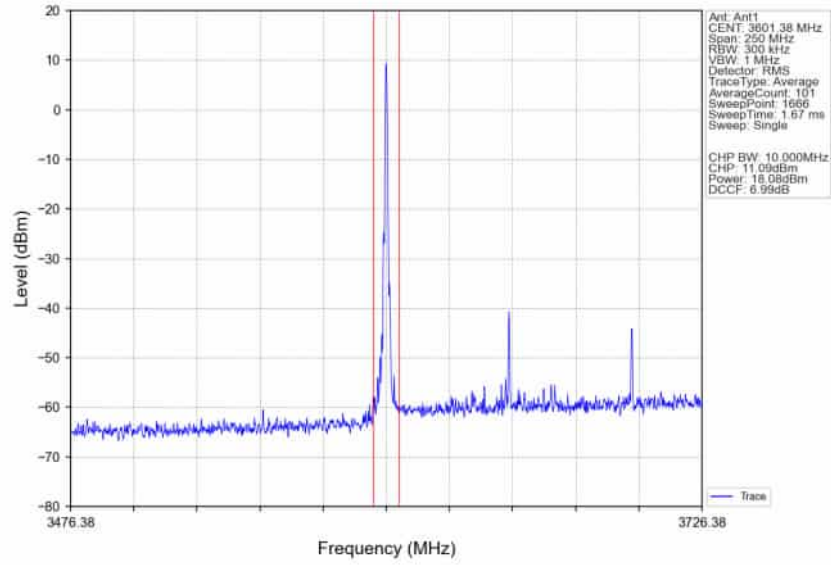
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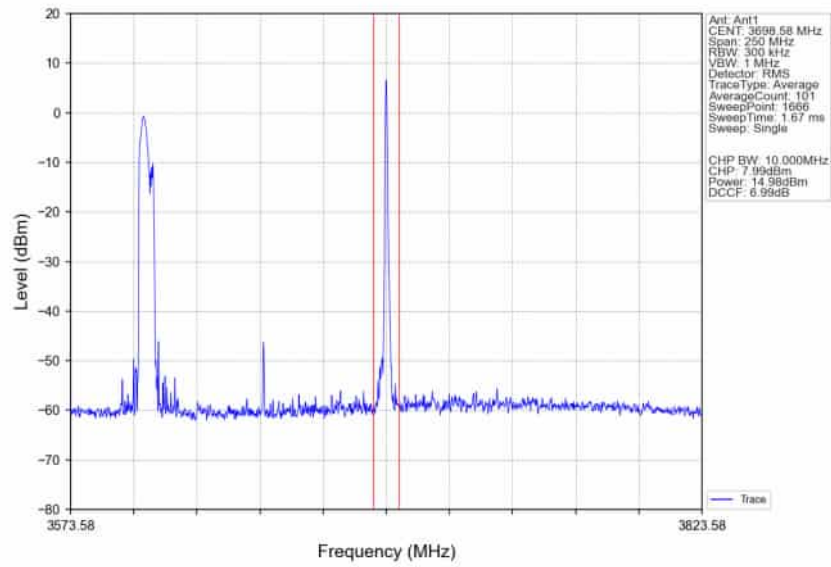
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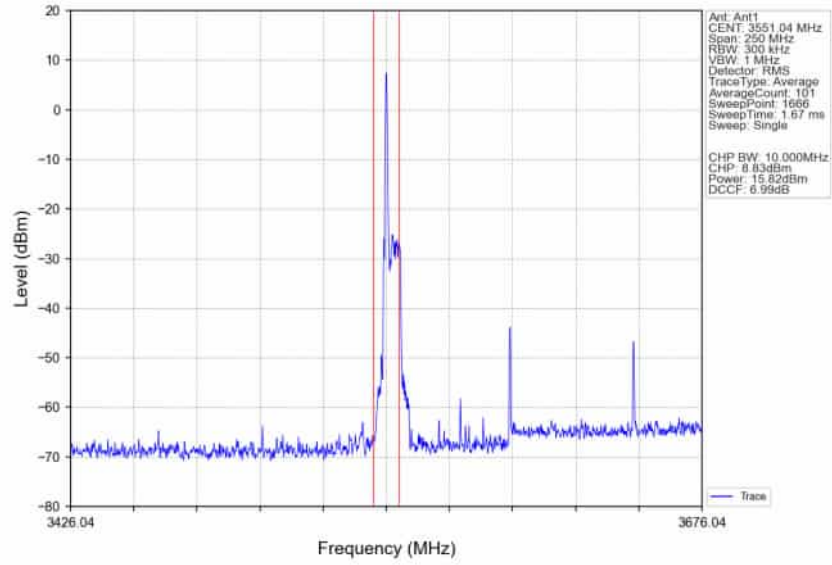
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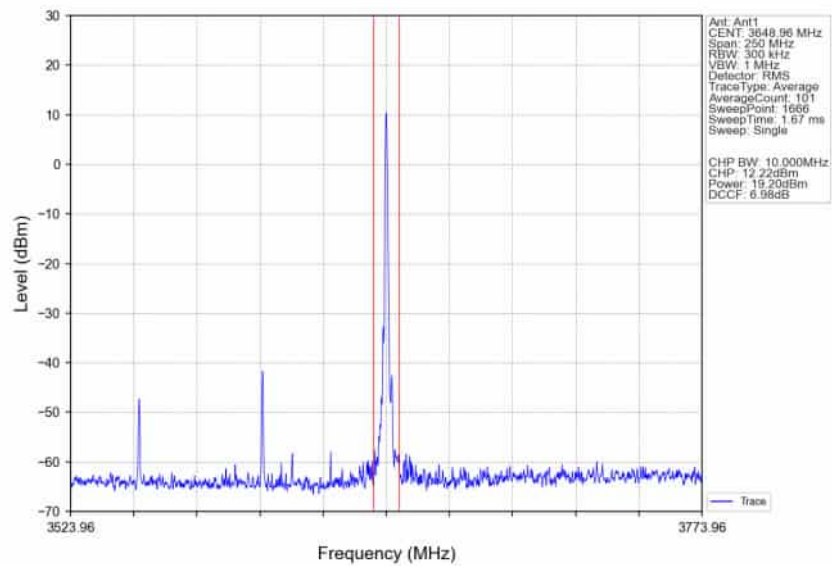
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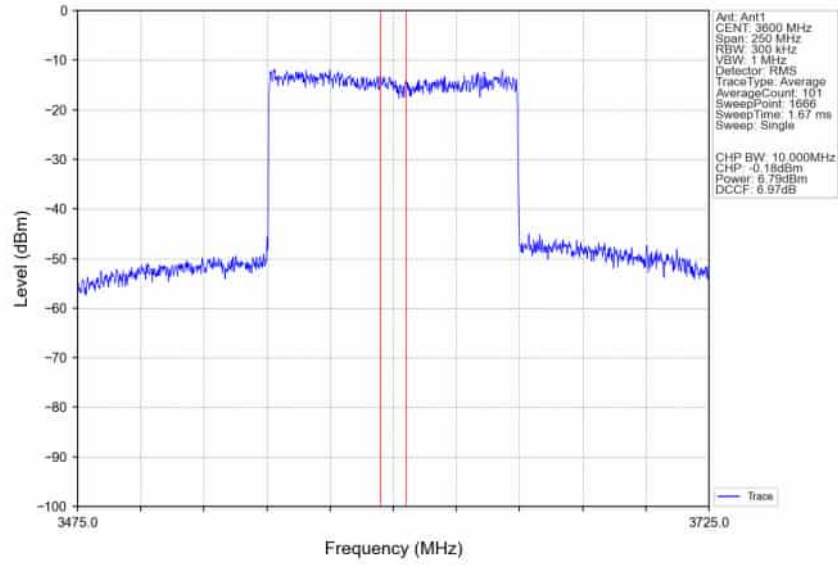
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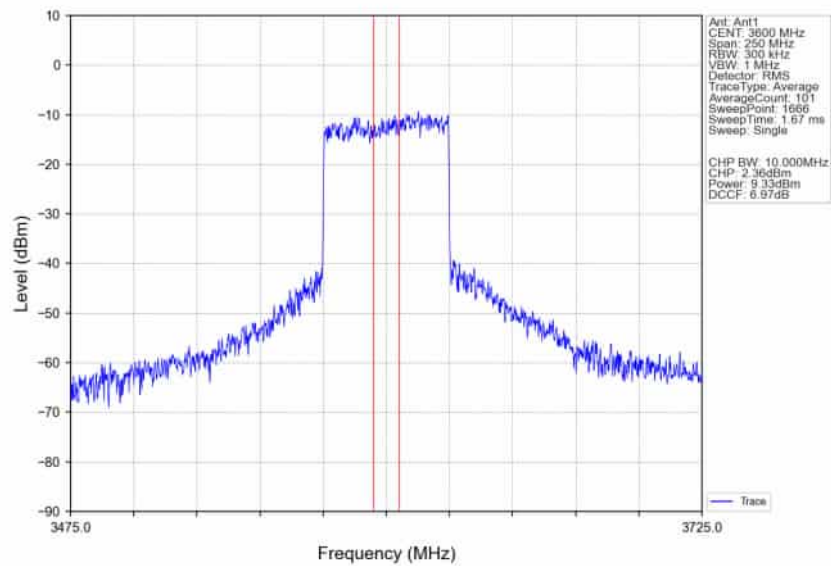
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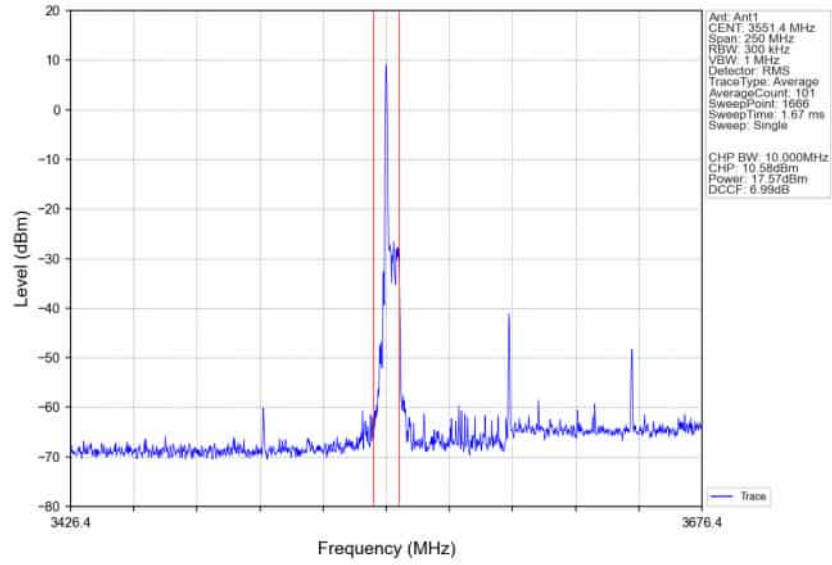
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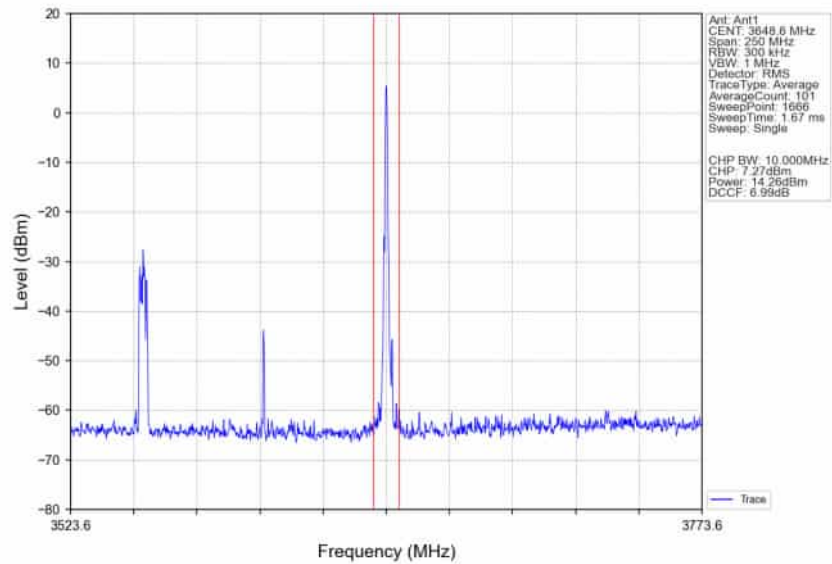
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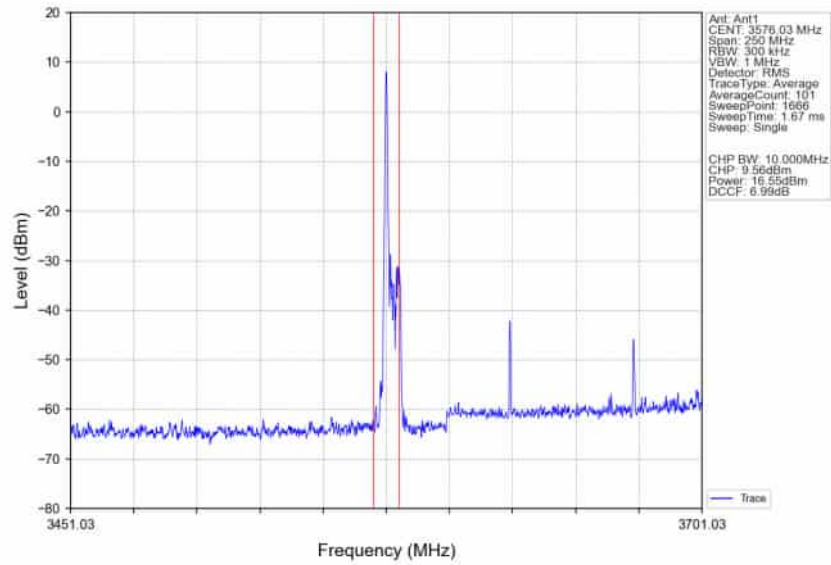
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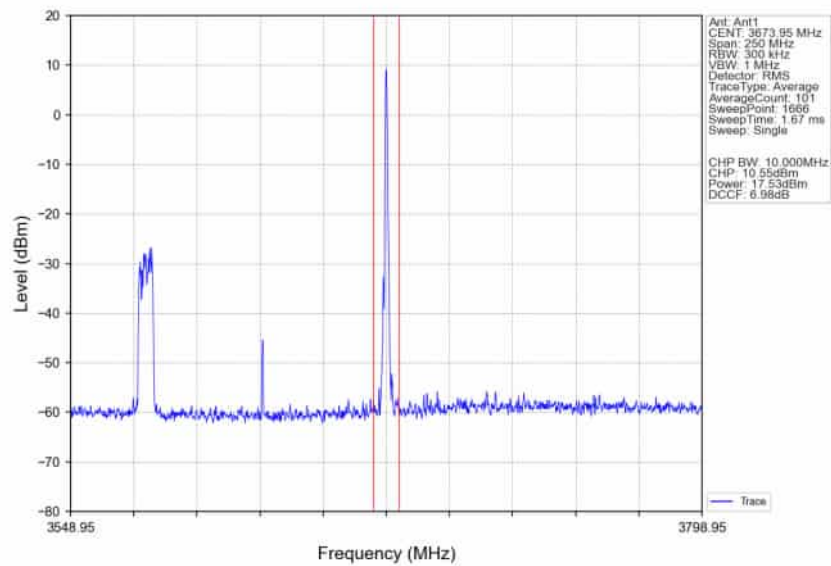
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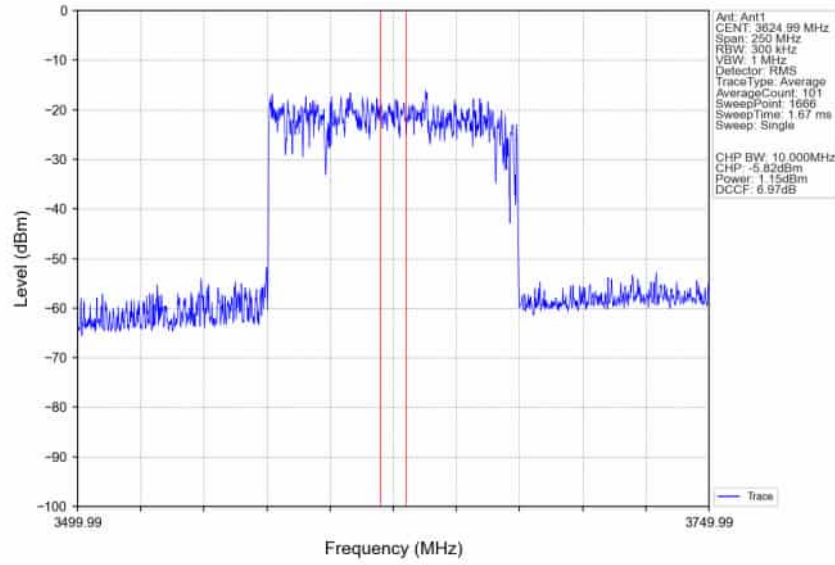
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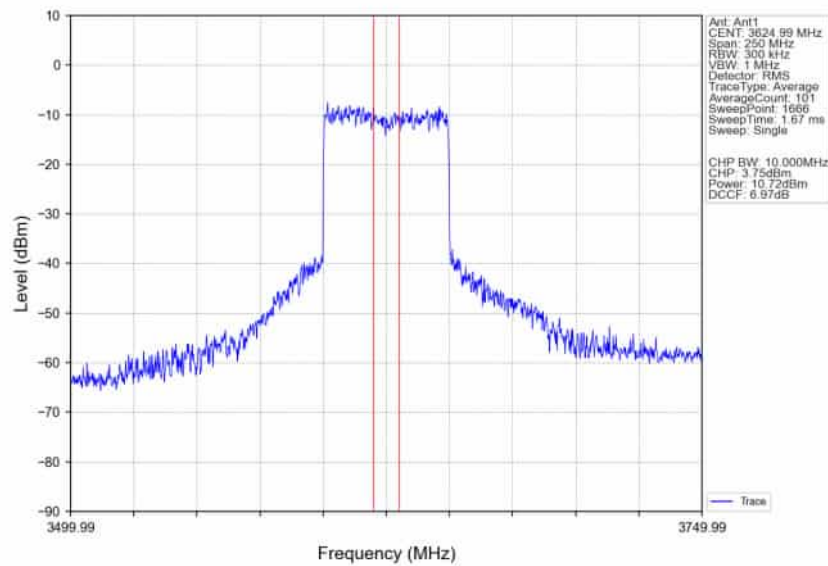
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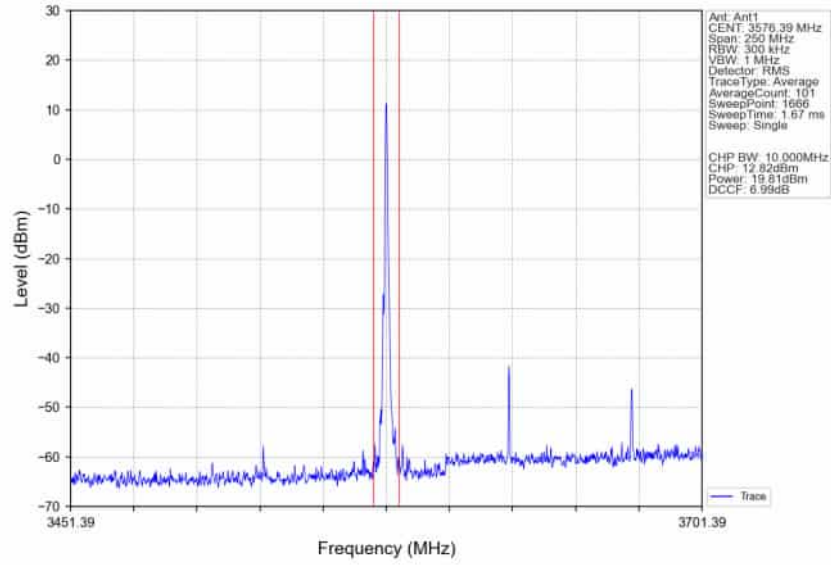
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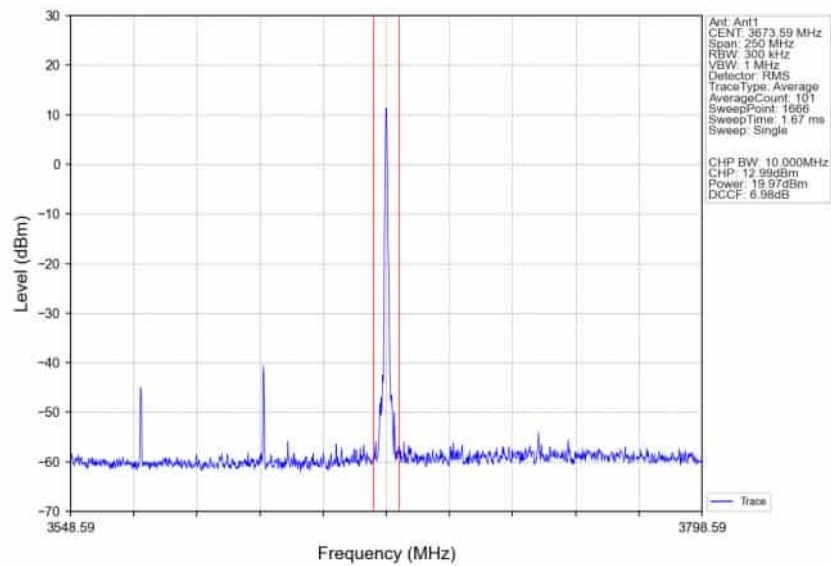
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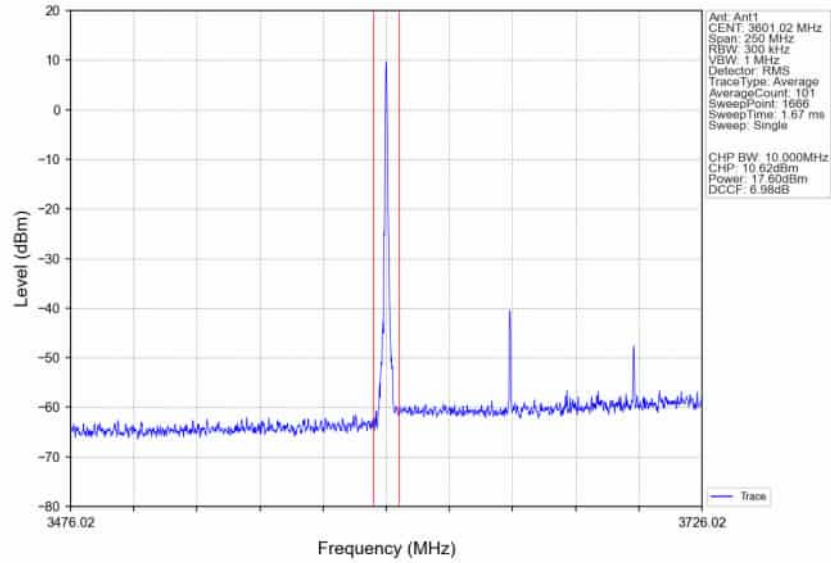
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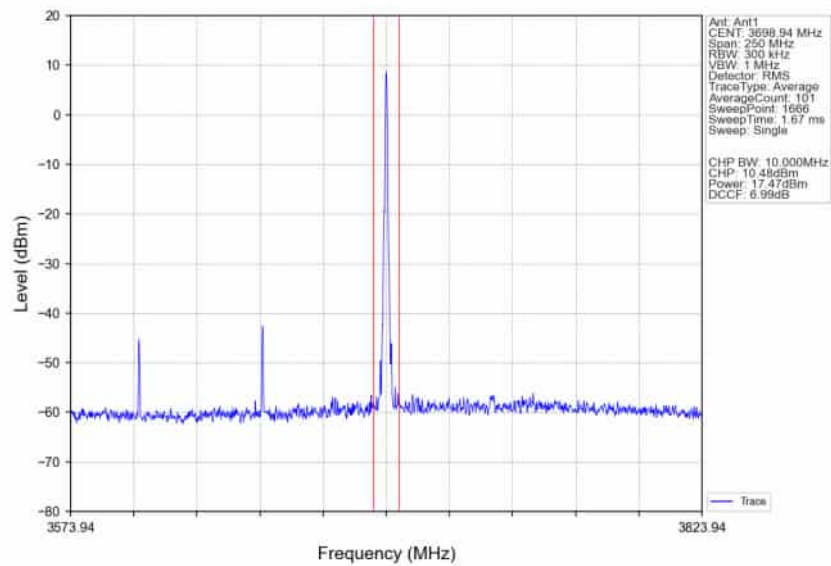
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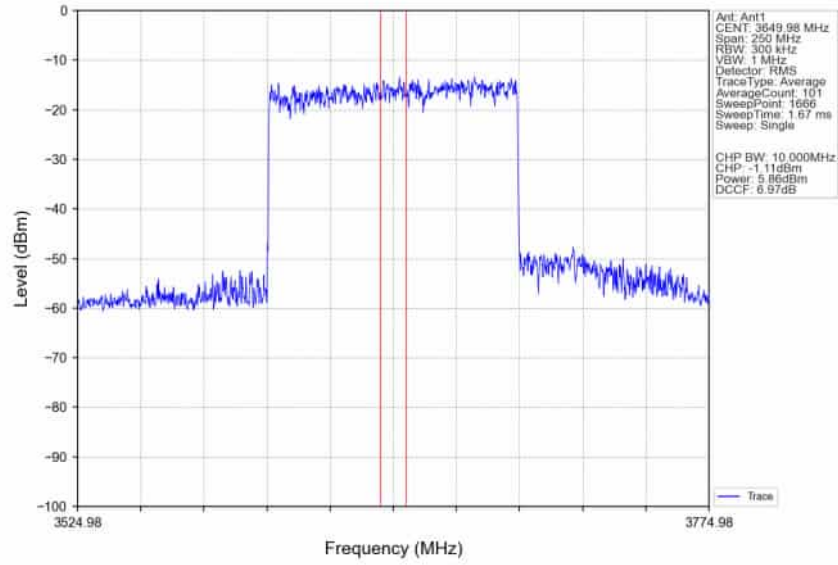
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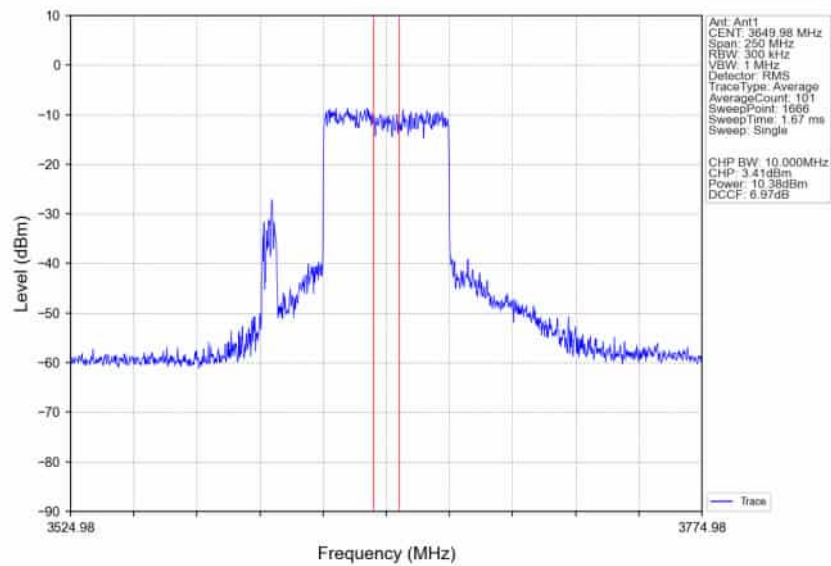
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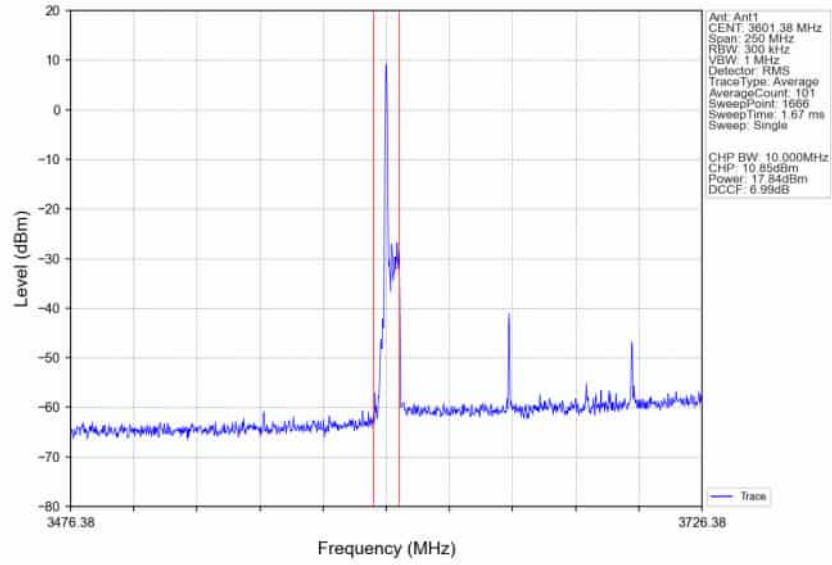
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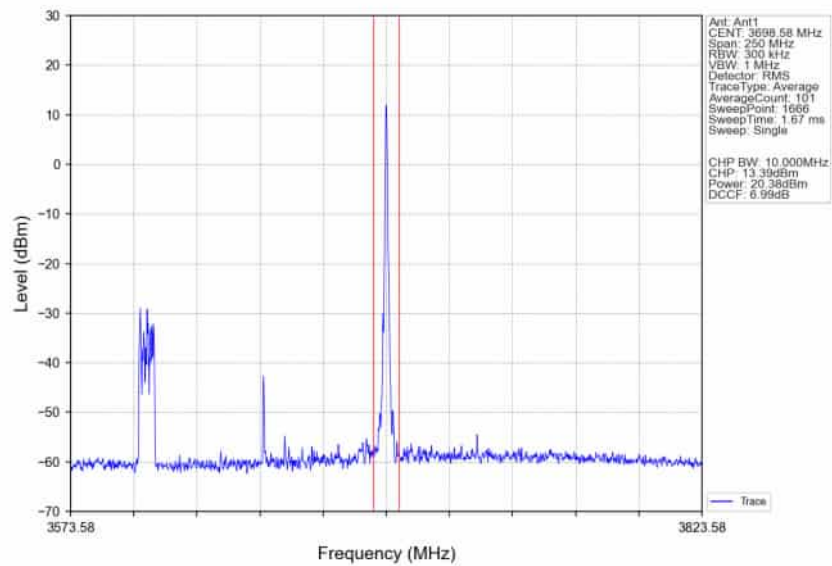
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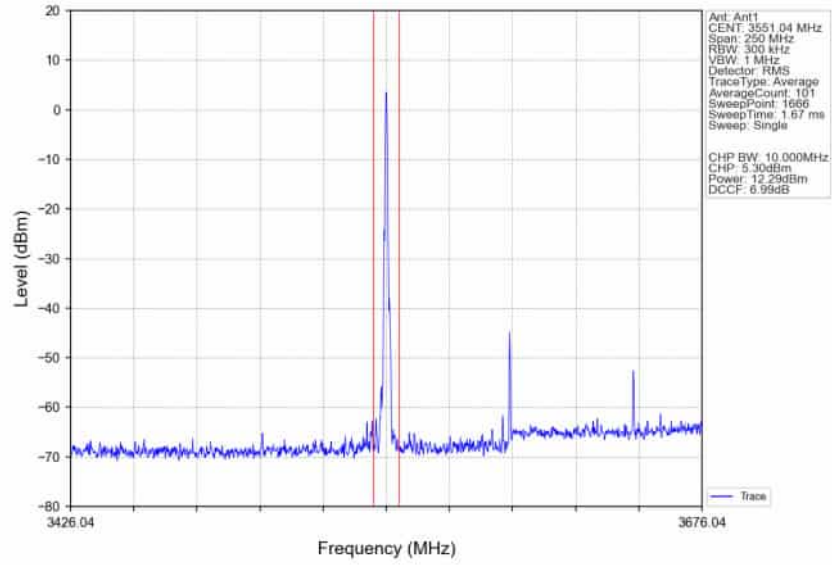
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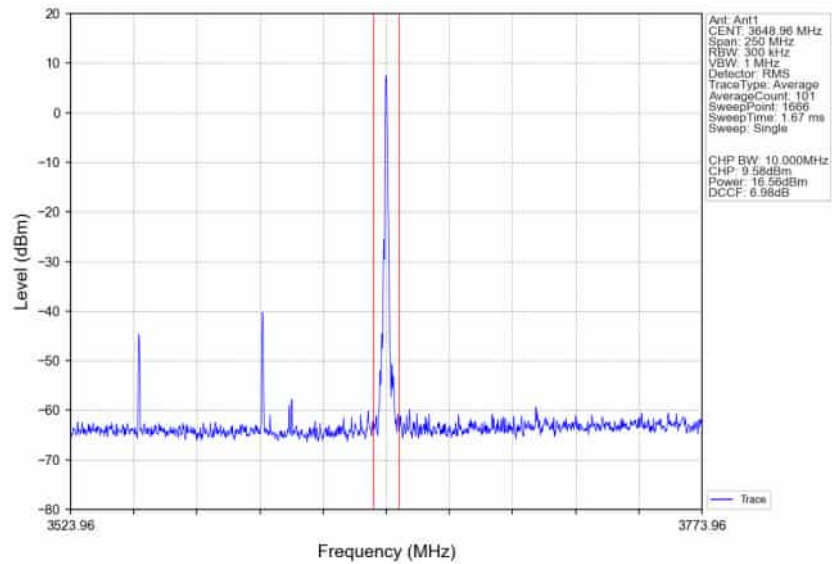
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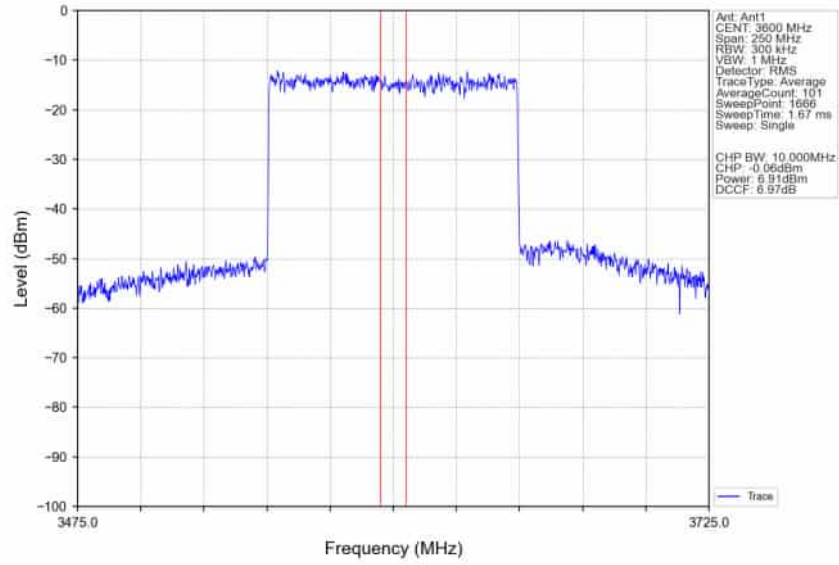
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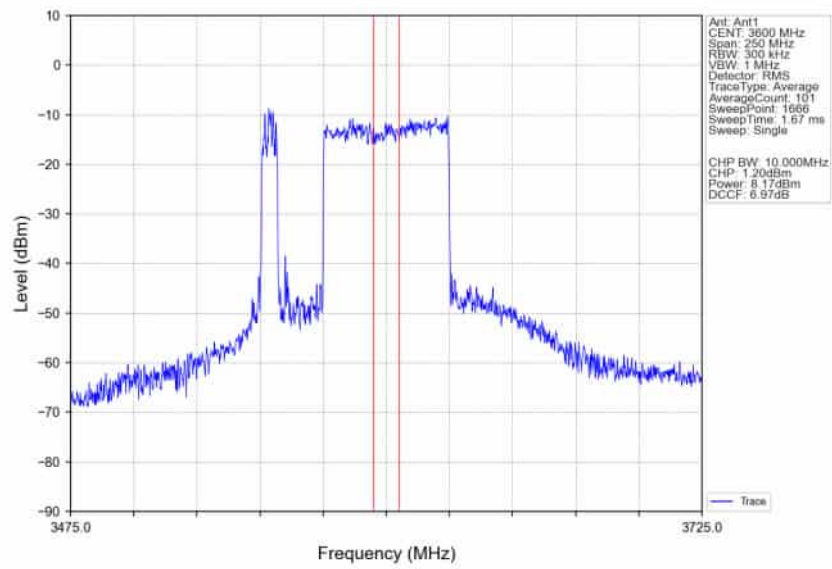
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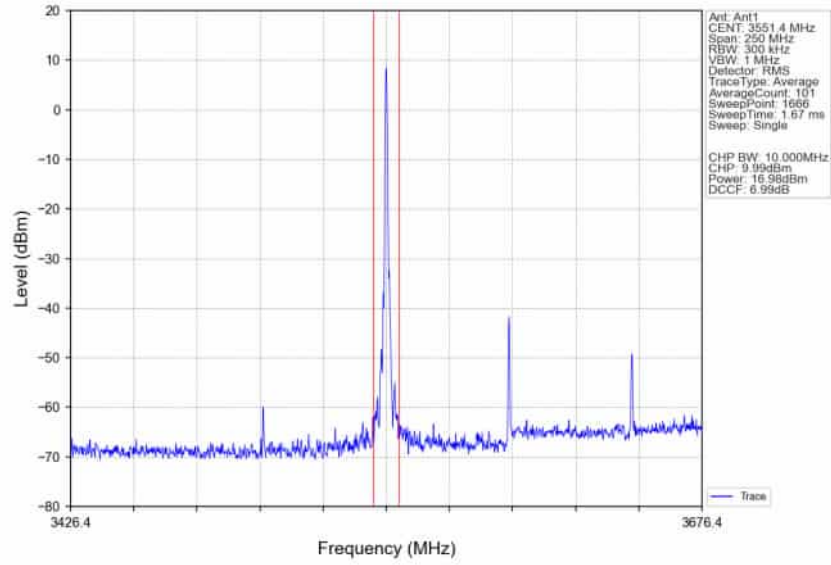
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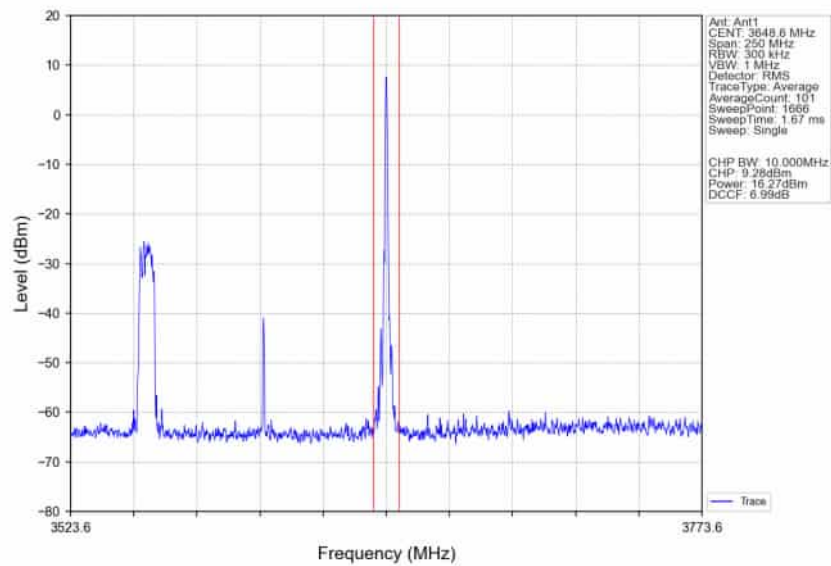
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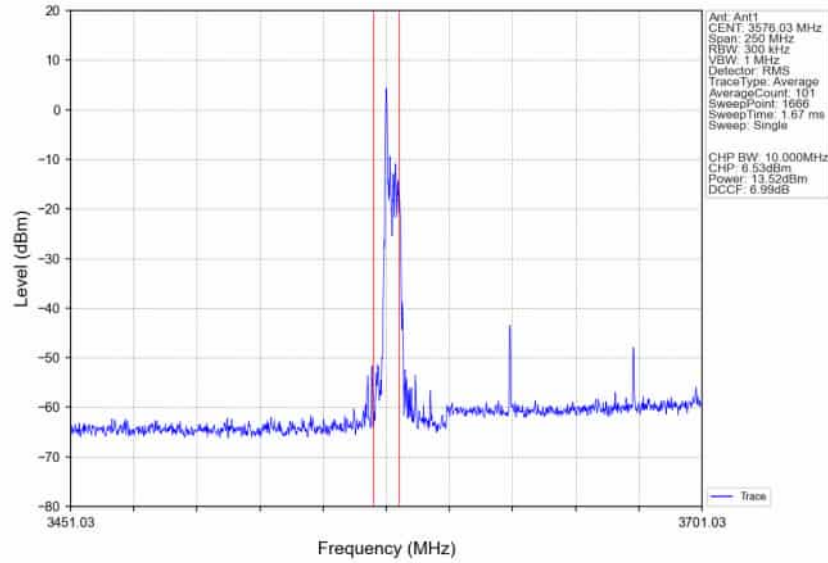
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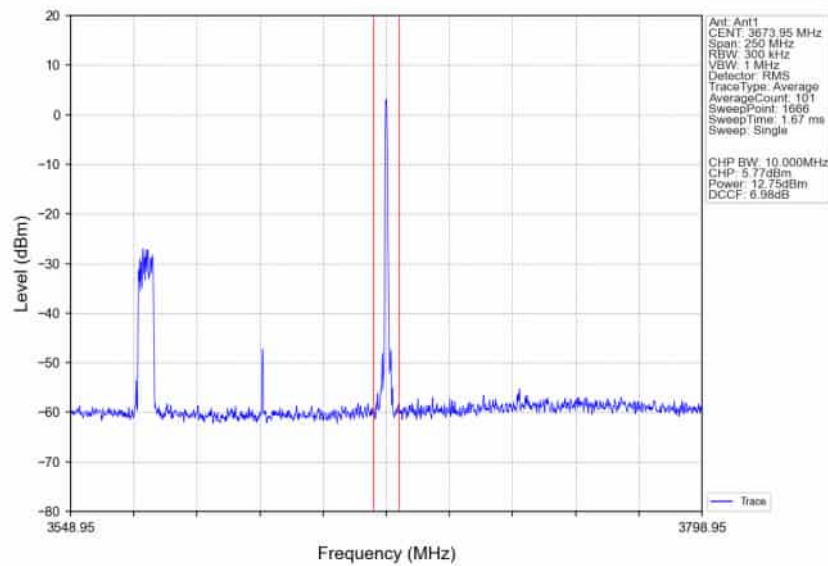
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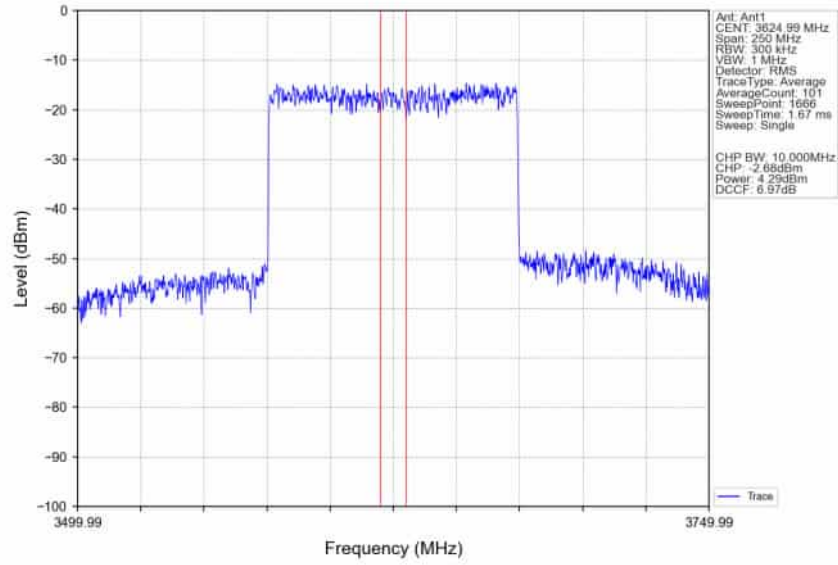
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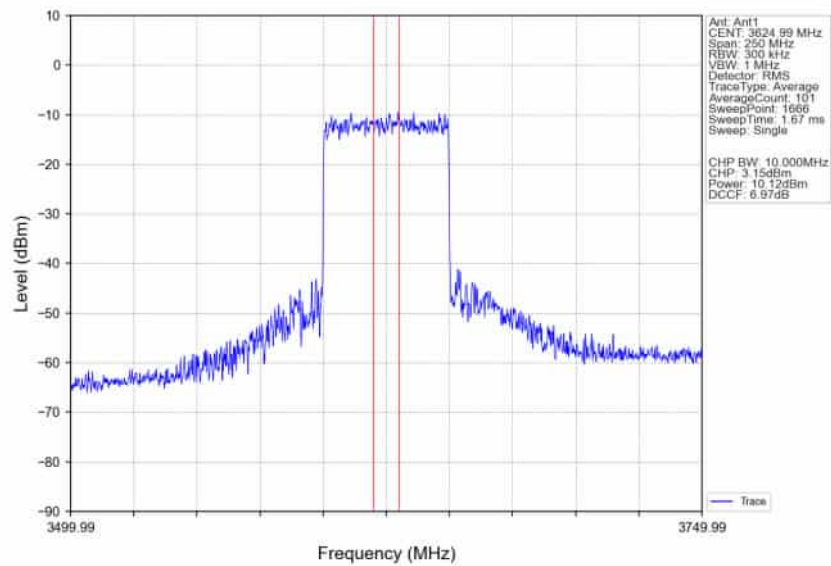
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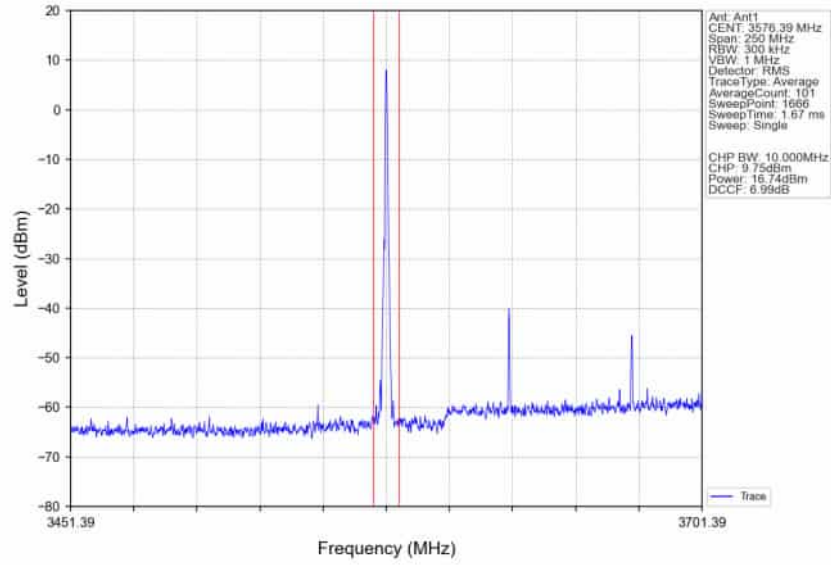
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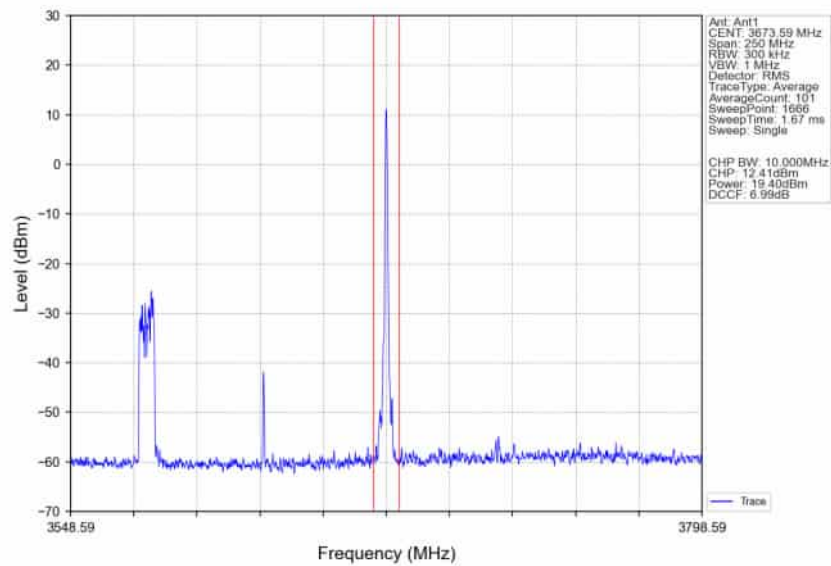
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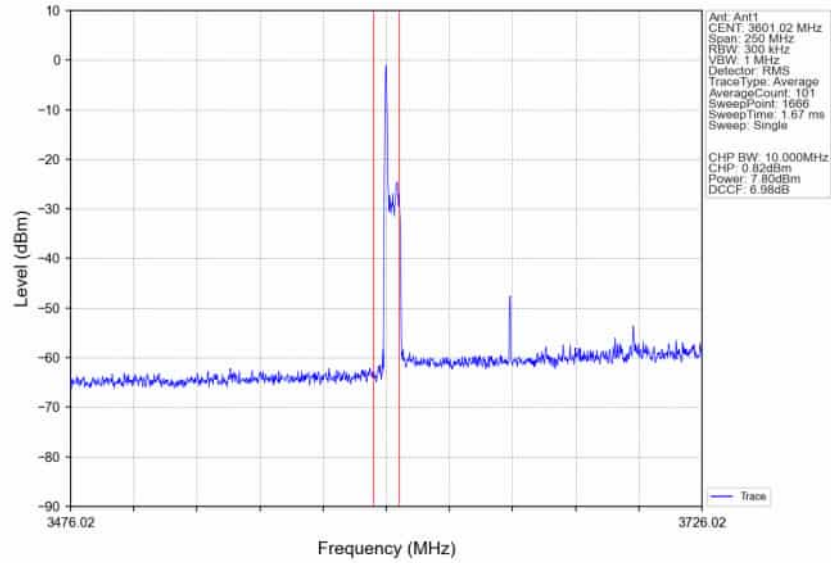
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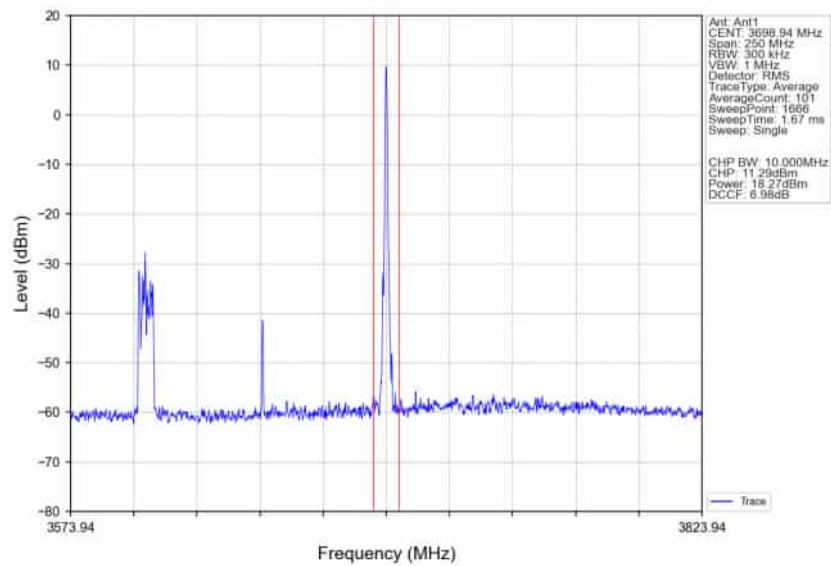
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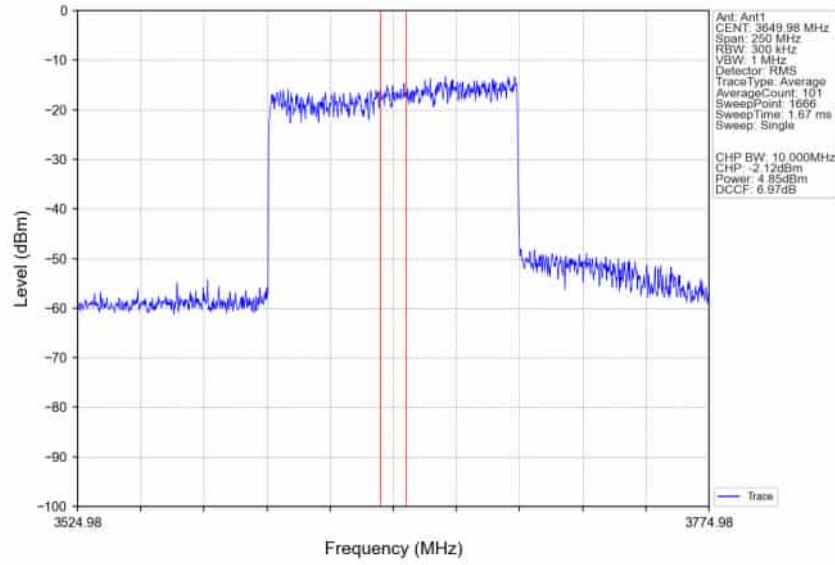
n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3649.98MHz_Edge_1RB_Left_Ant1



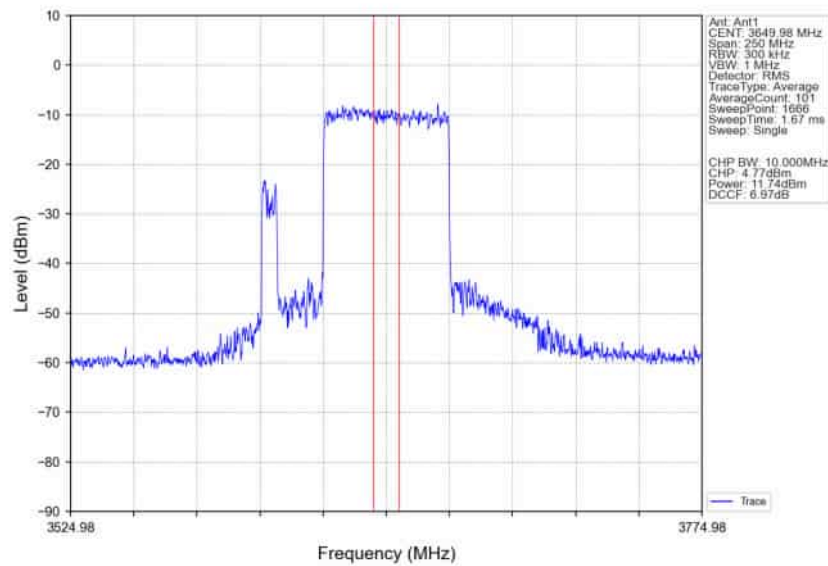
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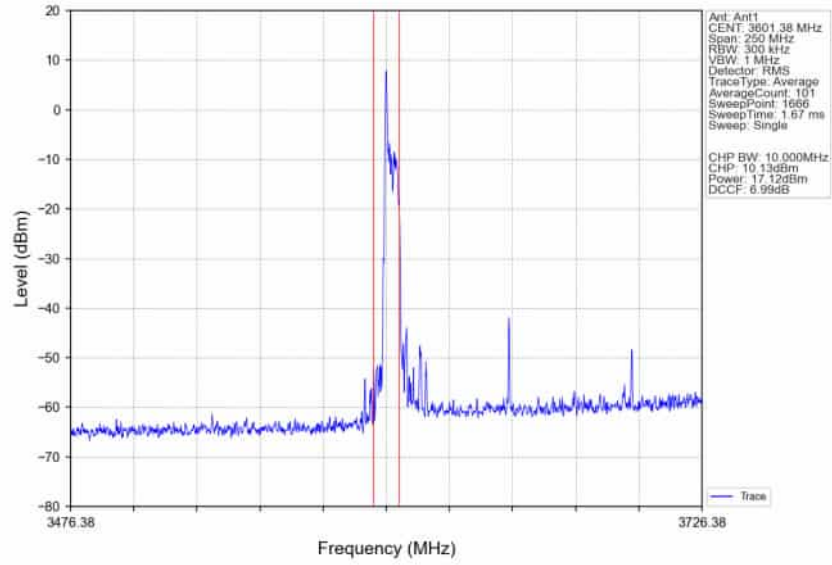
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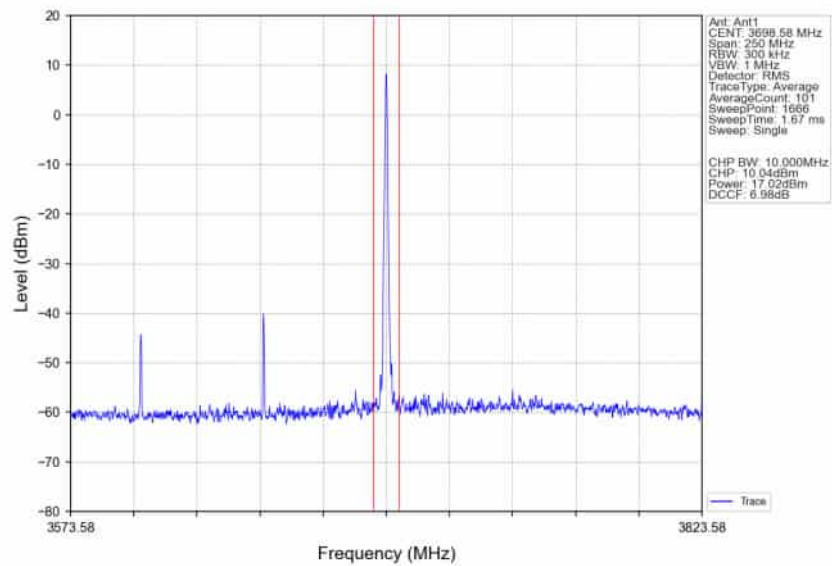
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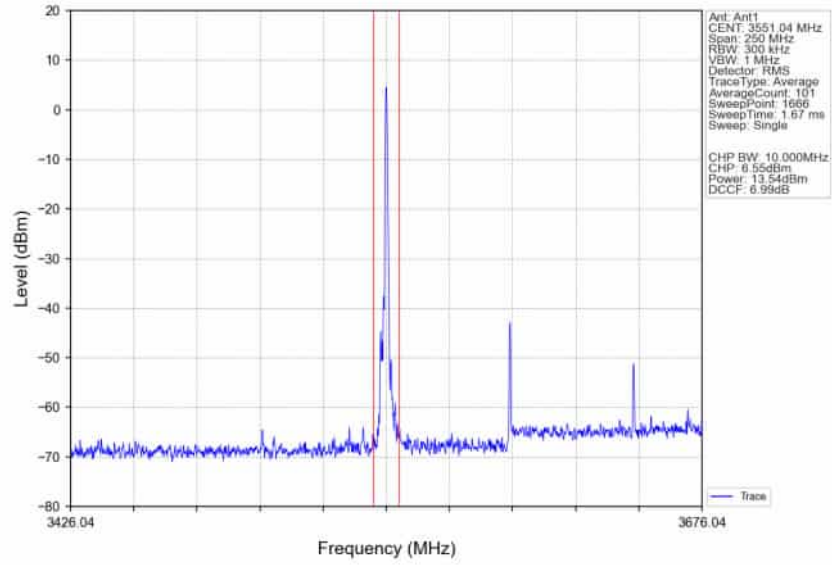
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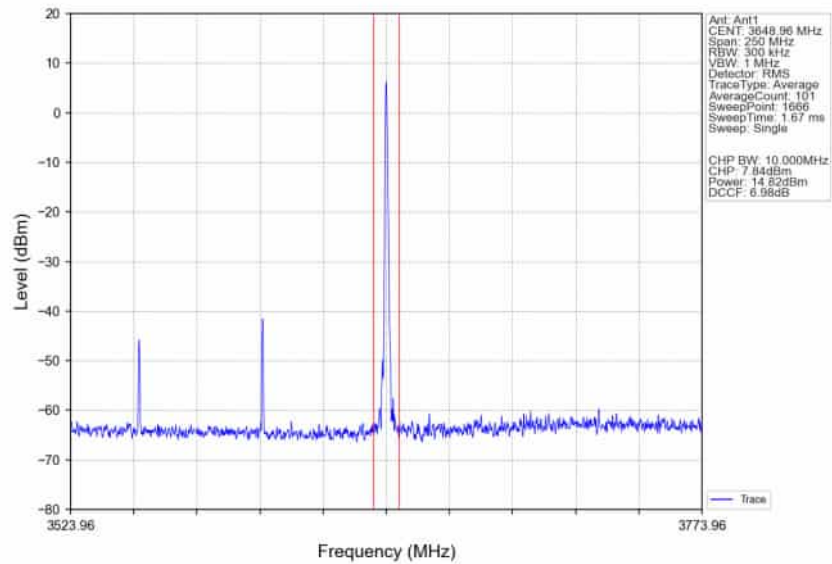
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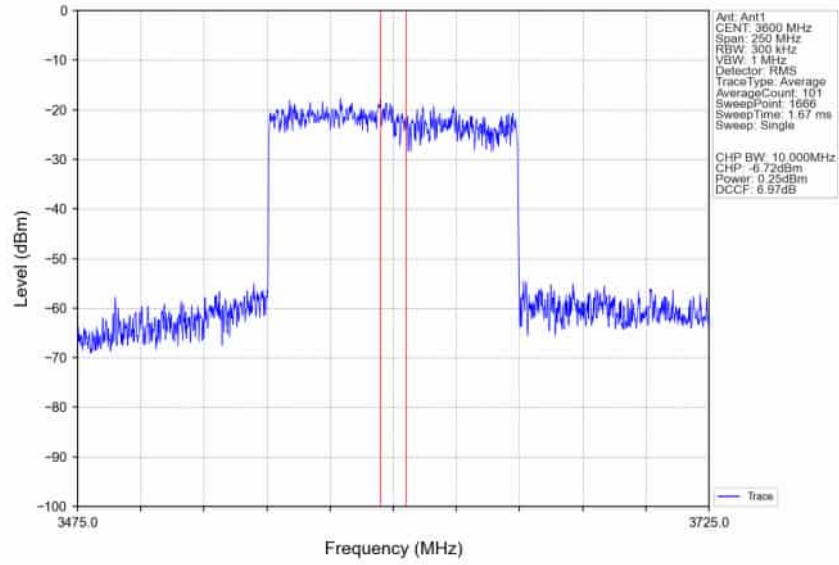
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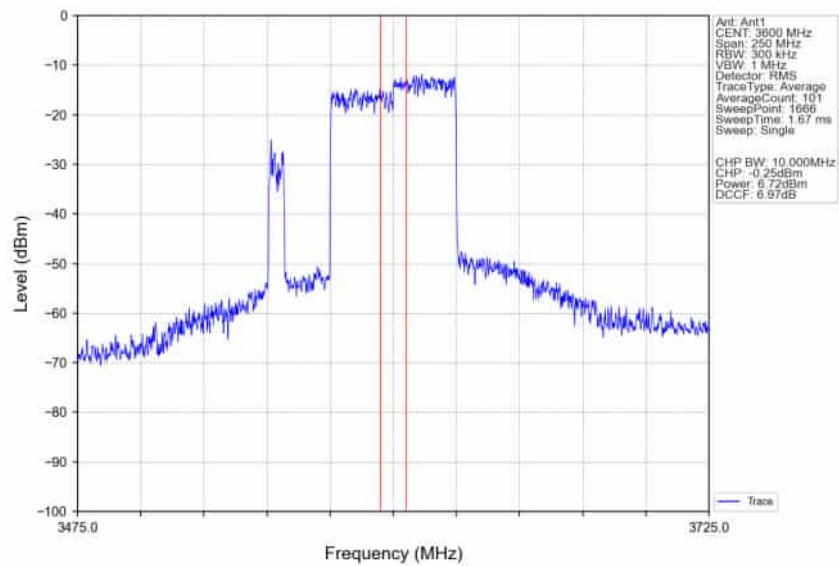
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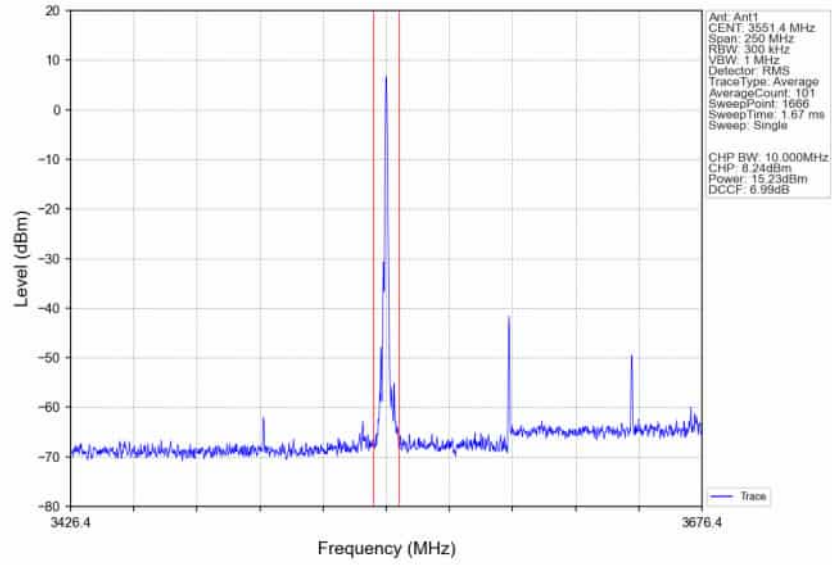
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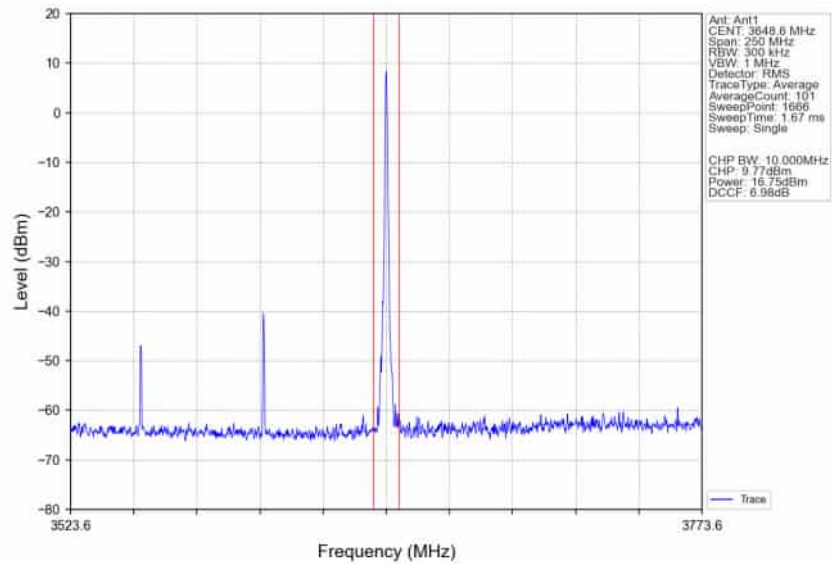
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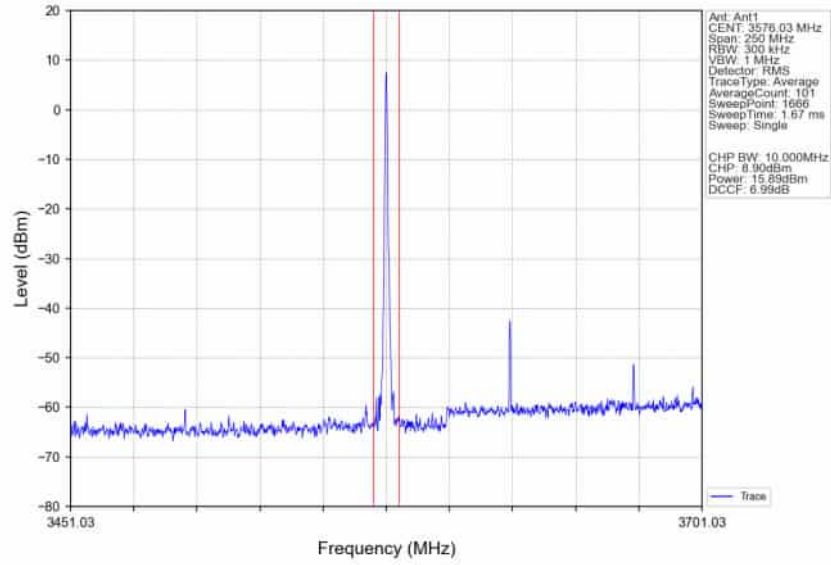
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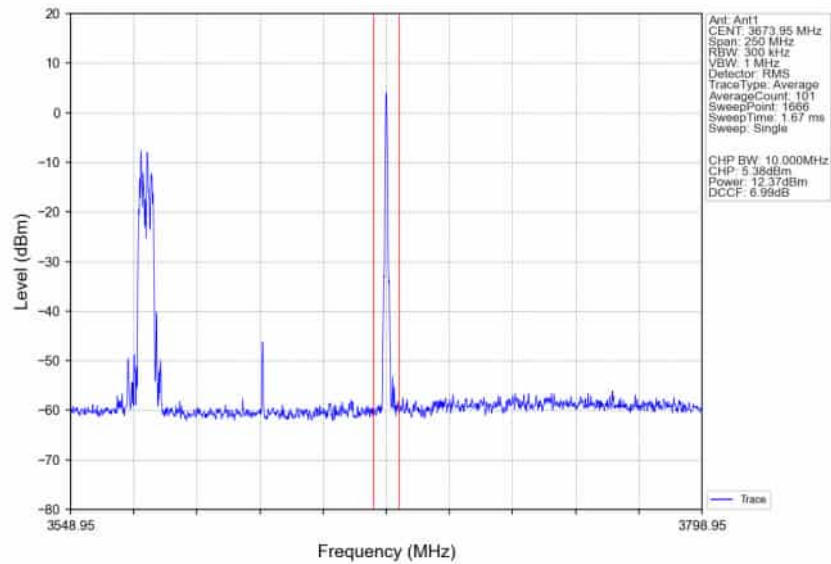
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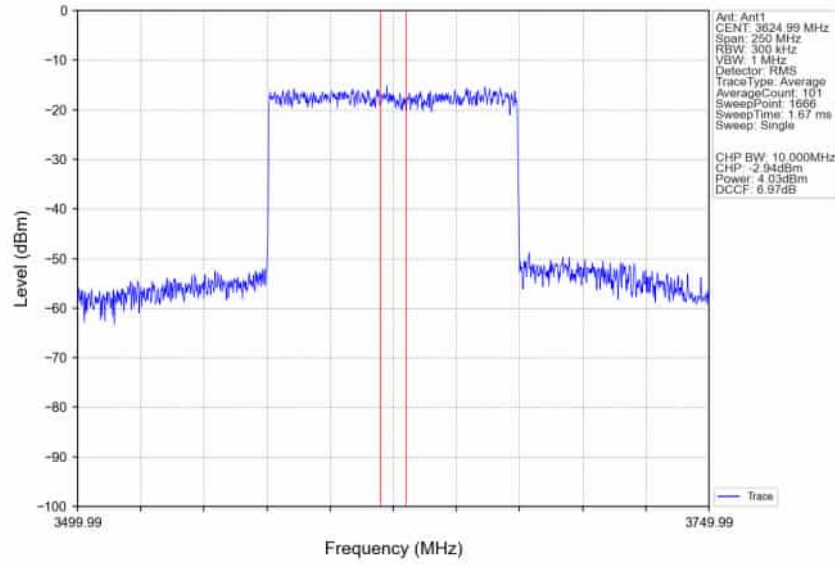
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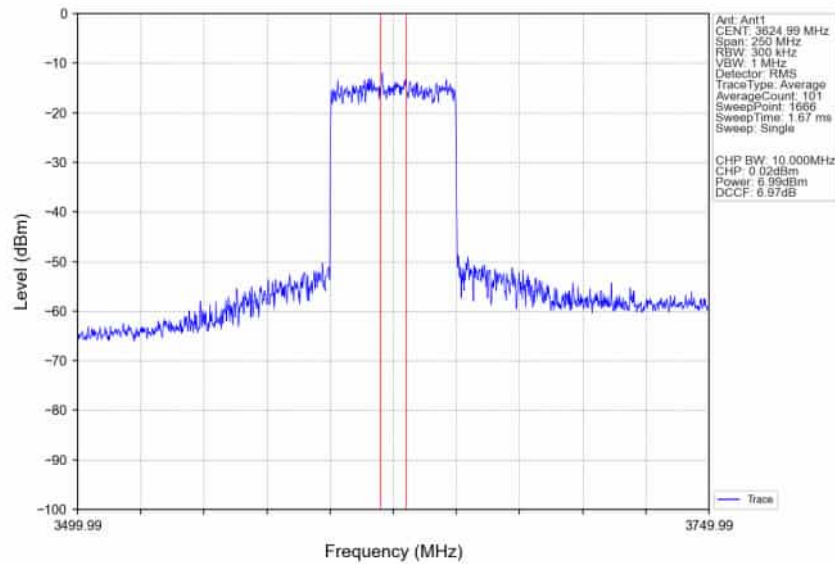
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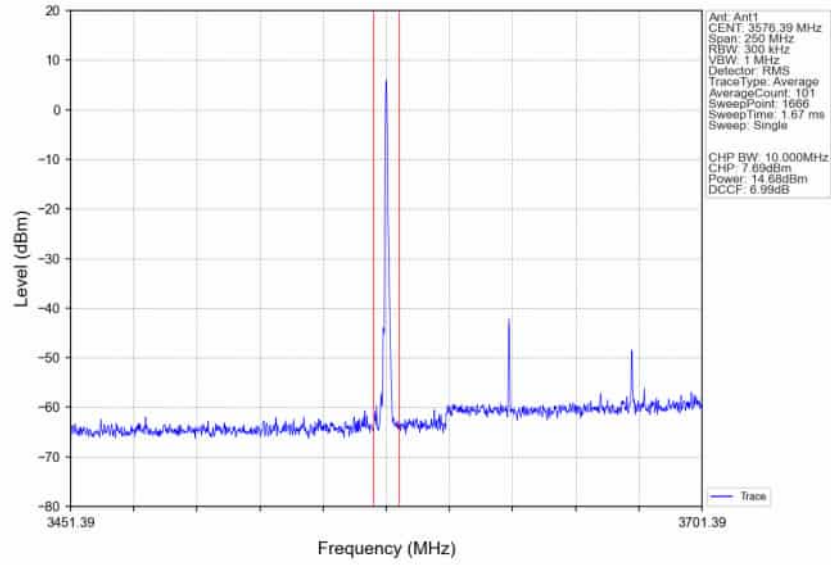
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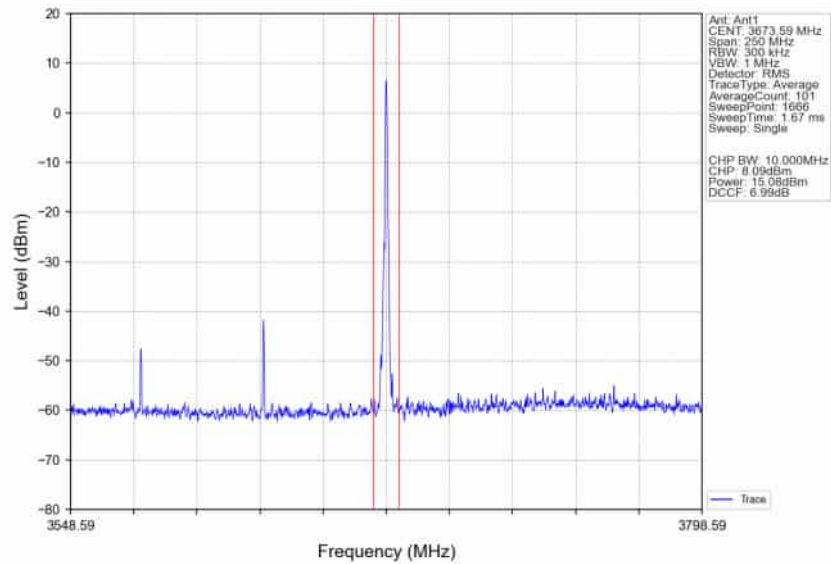
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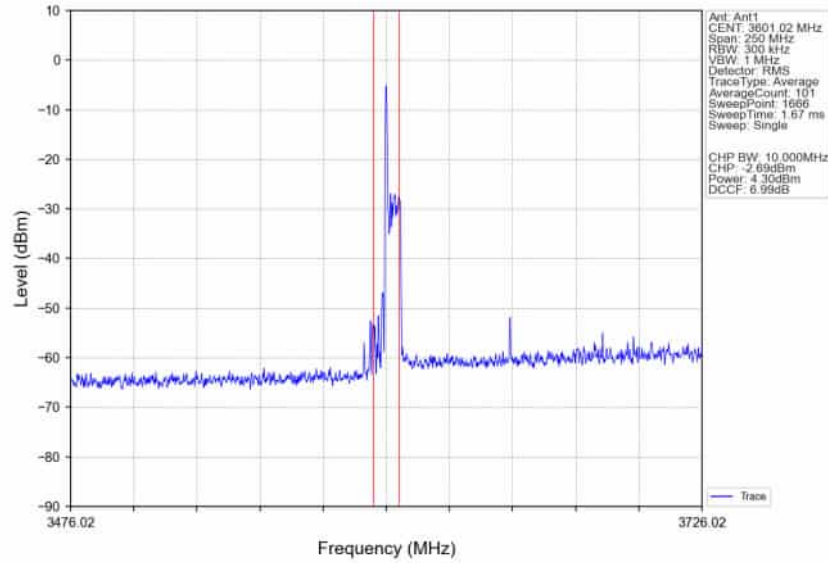
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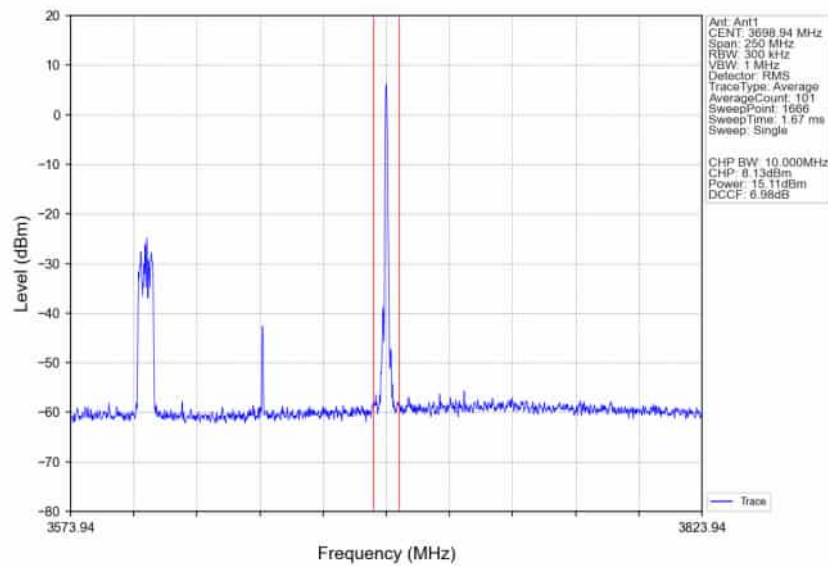
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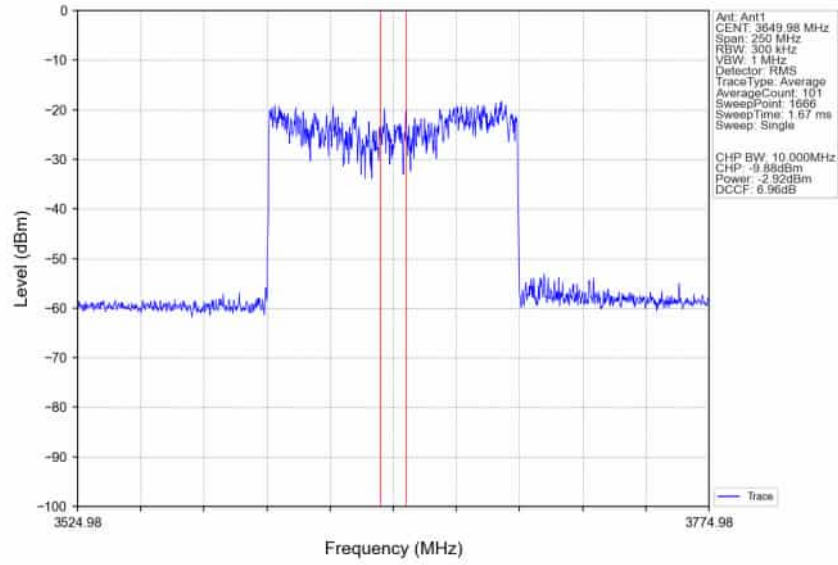
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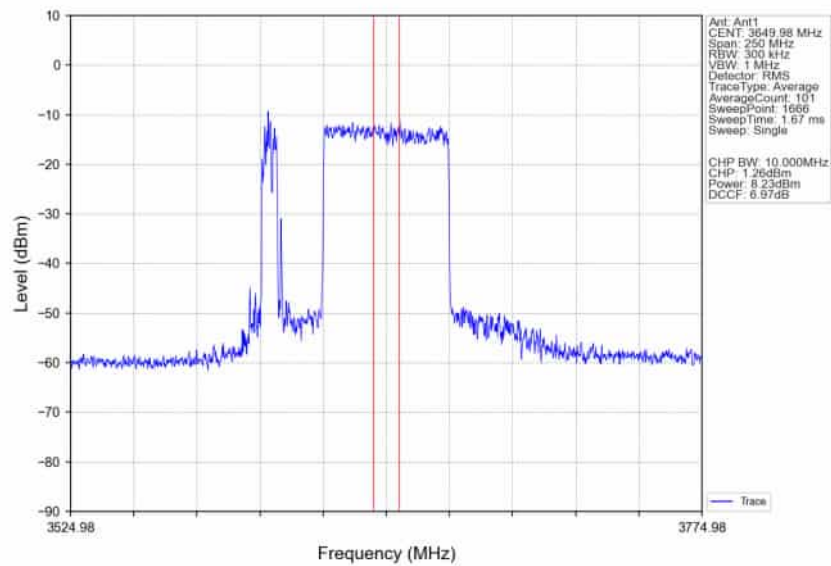
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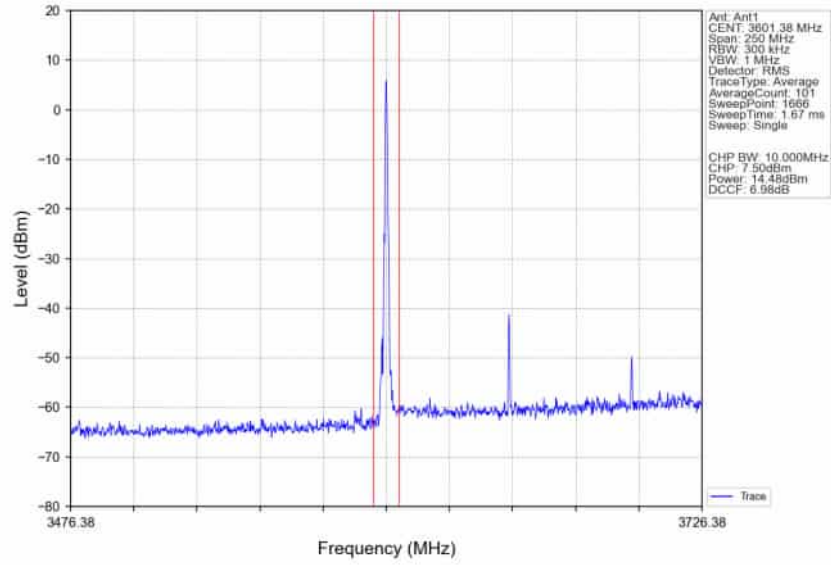
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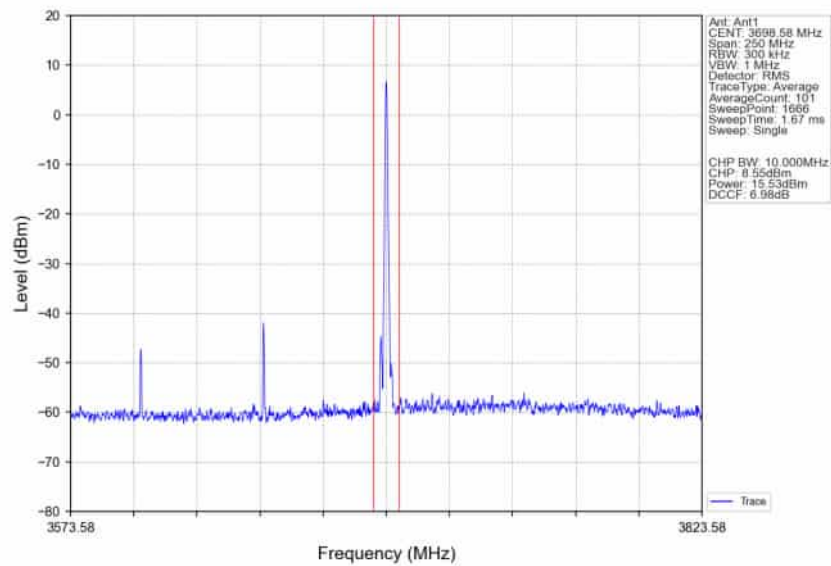
n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_Full_Ant1



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Inner_1RB_Left_Ant1



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Inner_1RB_Right_Ant1



3. Frequency Stability

3.1 Test Result

3.1.1 30k_SISO_20MHz

5G NR n78d SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-13.70	-0.0038	>=-2.5 & <=2.5	Pass
				HV	7.30	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	7.70	0.0021	>=-2.5 & <=2.5	Pass
			0	NV	10.10	0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-11.10	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-16.80	-0.0046	>=-2.5 & <=2.5	Pass
			0	NV	7.30	0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-20.40	-0.0056	>=-2.5 & <=2.5	Pass
			40	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-10.80	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-13.80	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	6.20	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-19.90	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-21.00	-0.0058	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-13.10	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-15.40	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-14.00	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	9.40	0.0026	>=-2.5 & <=2.5	Pass
			20	NV	1.20	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	10.70	0.0030	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	8.80	0.0024	>=-2.5 & <=2.5	Pass
				HV	7.20	0.0020	>=-2.5 & <=2.5	Pass

			-30	NV	5.70	0.0016	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	7.10	0.0020	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	8.60	0.0024	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-1.20	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-7.70	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-9.90	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.00	-0.0006	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	12.50	0.0034	≥ -2.5 & ≤ 2.5	Pass
				HV	-6.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	9.80	0.0027	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-12.30	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.90	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.70	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-10.60	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			20	NV	1.60	0.0004	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-18.20	-0.0050	≥ -2.5 & ≤ 2.5	Pass
			40	NV	1.90	0.0005	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-2.70	-0.0007	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.80	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-8.00	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.20	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			10	NV	6.00	0.0017	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.40	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.70	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	7.80	0.0022	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-8.00	-0.0022	≥ -2.5 & ≤ 2.5	Pass
				HV	8.80	0.0024	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-22.90	-0.0063	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	5.60	0.0015	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-10.30	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.40	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.50	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-6.90	-0.0019	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	7.70	0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	5.20	0.0014	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	3.90	0.0011	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	11.60	0.0032	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	12.00	0.0033	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.50	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	1.70	0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	2.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.90	0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-10.80	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-7.80	-0.0022	≥ -2.5 & ≤ 2.5	Pass

3.1.2 30k_SISO_30MHz

5G NR n78d SCS=30kHz SISO 30MHz

Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-18.80	-0.0052	>=-2.5 & <=2.5	Pass
			-30	NV	11.20	0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-15.50	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	9.40	0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-12.90	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	10.00	0.0028	>=-2.5 & <=2.5	Pass
				HV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	4.90	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	9.30	0.0026	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	2.20	0.0006	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	2.50	0.0007	>=-2.5 & <=2.5	Pass
				HV	3.90	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-17.40	-0.0048	>=-2.5 & <=2.5	Pass
			-20	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	5.40	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-12.80	-0.0035	>=-2.5 & <=2.5	Pass
				HV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-12.70	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-20.90	-0.0058	>=-2.5 & <=2.5	Pass
			40	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
				LV	9.30	0.0026	>=-2.5 & <=2.5	Pass
				HV	6.00	0.0017	>=-2.5 & <=2.5	Pass

			-30	NV	11.30	0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-20.40	-0.0056	>=-2.5 & <=2.5	Pass
			40	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	2.10	0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	10.40	0.0029	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-14.80	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	8.40	0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-11.20	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-13.20	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	0.50	0.0001	>=-2.5 & <=2.5	Pass
				HV	-12.50	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-0.90	-0.0002	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			10	NV	8.70	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	9.10	0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-6.20	-0.0017	>=-2.5 & <=2.5	Pass

3.1.3 30k_SISO_40MHz

5G NR n78d SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	6.30	0.0017	>=-2.5 & <=2.5	Pass
				HV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-12.40	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass

			40	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			50	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	2.90	0.0008	>=-2.5 & <=2.5	Pass
				HV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	15.90	0.0044	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			50	NV	13.70	0.0038	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	6.80	0.0019	>=-2.5 & <=2.5	Pass
				HV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			10	NV	14.40	0.0040	>=-2.5 & <=2.5	Pass
			20	NV	9.00	0.0025	>=-2.5 & <=2.5	Pass
			30	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-14.70	-0.0041	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	9.40	0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	7.40	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	2.00	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	5.40	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	8.90	0.0025	>=-2.5 & <=2.5	Pass
				HV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	10.90	0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	9.00	0.0025	>=-2.5 & <=2.5	Pass
			20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	0.80	0.0002	>=-2.5 & <=2.5	Pass
			40	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			50	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	6.80	0.0019	>=-2.5 & <=2.5	Pass
				HV	8.50	0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	6.20	0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	12.30	0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	6.00	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
				HV	3.80	0.0010	>=-2.5 & <=2.5	Pass

			-30	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	7.30	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	3.60	0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-8.70	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
				HV	1.20	0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	5.50	0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	1.50	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	13.30	0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	2.10	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	8.70	0.0024	>=-2.5 & <=2.5	Pass
			10	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	12.30	0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
				NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass

3.1.4 30k_SISO_50MHz

5G NR n78d SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	13.00	0.0036	>=-2.5 & <=2.5	Pass
				HV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	9.80	0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	6.20	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	5.50	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	12.80	0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	50	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
				NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	LV	1.60	0.0004	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	10.60	0.0029	>=-2.5 & <=2.5	Pass
			0	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			20	NV	4.70	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass

			40	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			50	NV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-12.80	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	12.50	0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	11.30	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	8.20	0.0023	>=-2.5 & <=2.5	Pass
			10	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	11.20	0.0031	>=-2.5 & <=2.5	Pass
			30	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	7.60	0.0021	>=-2.5 & <=2.5	Pass
				HV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			10	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	9.80	0.0027	>=-2.5 & <=2.5	Pass
			40	NV	16.10	0.0044	>=-2.5 & <=2.5	Pass
			50	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	5.70	0.0016	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	1.40	0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	11.50	0.0032	>=-2.5 & <=2.5	Pass
			20	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	12.00	0.0033	>=-2.5 & <=2.5	Pass
			40	NV	8.50	0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	3.40	0.0009	>=-2.5 & <=2.5	Pass
				HV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	9.50	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-14.40	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	1.30	0.0004	>=-2.5 & <=2.5	Pass
			50	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	6.80	0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	9.30	0.0026	>=-2.5 & <=2.5	Pass
			30	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			50	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	9.00	0.0025	>=-2.5 & <=2.5	Pass
				HV	4.20	0.0012	>=-2.5 & <=2.5	Pass

			-30	NV	6.20	0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			10	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-0.50	-0.0001	>=-2.5 & <=2.5	Pass
			30	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-1.70	-0.0005	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	9.80	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	11.50	0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	12.20	0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass

3.1.5 30k_SISO_60MHz

5G NR n78d SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
				HV	6.90	0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-1.00	-0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-13.40	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	5.30	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	5.80	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	3.90	0.0011	>=-2.5 & <=2.5	Pass
				HV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	3.00	0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-11.00	-0.0030	>=-2.5 & <=2.5	Pass
				HV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	13.20	0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	5.40	0.0015	>=-2.5 & <=2.5	Pass

			40	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	6.40	0.0018	>=-2.5 & <=2.5	Pass
				HV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	12.20	0.0034	>=-2.5 & <=2.5	Pass
			10	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	8.00	0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-15.30	-0.0042	>=-2.5 & <=2.5	Pass
			DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	14.00
HV	-8.70	-0.0024					>=-2.5 & <=2.5	Pass
-30	NV	-16.50				-0.0046	>=-2.5 & <=2.5	Pass
-20	NV	-15.40				-0.0042	>=-2.5 & <=2.5	Pass
-10	NV	4.10				0.0011	>=-2.5 & <=2.5	Pass
0	NV	2.60				0.0007	>=-2.5 & <=2.5	Pass
10	NV	2.60				0.0007	>=-2.5 & <=2.5	Pass
20	NV	-7.20				-0.0020	>=-2.5 & <=2.5	Pass
30	NV	-10.80				-0.0030	>=-2.5 & <=2.5	Pass
40	NV	1.10				0.0003	>=-2.5 & <=2.5	Pass
50	NV	2.10				0.0006	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full				20	LV	-8.90
			HV	7.00	0.0019		>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	10.00	0.0028	>=-2.5 & <=2.5	Pass
			0	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	8.00	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-3.00	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	2.80	0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-10.10	-0.0028	>=-2.5 & <=2.5	Pass
			CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	2.90
HV	-13.60	-0.0038					>=-2.5 & <=2.5	Pass
-30	NV	-5.90				-0.0016	>=-2.5 & <=2.5	Pass
-20	NV	-8.70				-0.0024	>=-2.5 & <=2.5	Pass
-10	NV	-15.90				-0.0044	>=-2.5 & <=2.5	Pass
0	NV	-12.20				-0.0034	>=-2.5 & <=2.5	Pass
10	NV	-6.40				-0.0018	>=-2.5 & <=2.5	Pass
20	NV	-7.10				-0.0020	>=-2.5 & <=2.5	Pass
30	NV	5.00				0.0014	>=-2.5 & <=2.5	Pass
40	NV	5.10				0.0014	>=-2.5 & <=2.5	Pass
50	NV	-3.10				-0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full				20	LV	-2.40
			HV	-2.40	-0.0007		>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	1.00	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	11.00
HV	-3.10	-0.0009					>=-2.5 & <=2.5	Pass

			-30	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	4.30	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-11.80	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass

3.1.6 30k_SISO_70MHz

5G NR n78d SCS=30kHz SISO 70MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	11.90	0.0033	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-22.40	-0.0062	>=-2.5 & <=2.5	Pass
			10	NV	10.40	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	16.10	0.0044	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
				HV	6.20	0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-11.90	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-0.80	-0.0002	>=-2.5 & <=2.5	Pass
			30	NV	8.90	0.0025	>=-2.5 & <=2.5	Pass
			40	NV	8.20	0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	13.60	0.0038	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	5.40	0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	1.80	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-9.50	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-11.20	-0.0031	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-11.70	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-13.90	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	9.40	0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass

			40	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			50	NV	10.60	0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	5.30	0.0015	>=-2.5 & <=2.5	Pass
				HV	-14.20	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	3624.99	Outer_Full	20	LV	1.90
HV	-7.60	-0.0021					>=-2.5 & <=2.5	Pass
-30	NV	-6.40				-0.0018	>=-2.5 & <=2.5	Pass
-20	NV	1.80				0.0005	>=-2.5 & <=2.5	Pass
-10	NV	-6.10				-0.0017	>=-2.5 & <=2.5	Pass
0	NV	-5.60				-0.0015	>=-2.5 & <=2.5	Pass
10	NV	9.00				0.0025	>=-2.5 & <=2.5	Pass
20	NV	-5.30				-0.0015	>=-2.5 & <=2.5	Pass
30	NV	-6.70				-0.0018	>=-2.5 & <=2.5	Pass
40	NV	-5.30				-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-6.70				-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full				20	LV	-3.10
			HV	-2.60	-0.0007		>=-2.5 & <=2.5	Pass
			-30	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-15.30	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	0.50	0.0001	>=-2.5 & <=2.5	Pass
			50	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	8.30
HV	-5.90	-0.0016					>=-2.5 & <=2.5	Pass
-30	NV	-2.10				-0.0006	>=-2.5 & <=2.5	Pass
-20	NV	-8.90				-0.0025	>=-2.5 & <=2.5	Pass
-10	NV	9.00				0.0025	>=-2.5 & <=2.5	Pass
0	NV	-8.80				-0.0024	>=-2.5 & <=2.5	Pass
10	NV	-9.80				-0.0027	>=-2.5 & <=2.5	Pass
20	NV	-12.20				-0.0034	>=-2.5 & <=2.5	Pass
30	NV	11.30				0.0031	>=-2.5 & <=2.5	Pass
40	NV	4.30				0.0012	>=-2.5 & <=2.5	Pass
50	NV	4.60				0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full				20	LV	-8.80
			HV	-9.80	-0.0027		>=-2.5 & <=2.5	Pass
			-30	NV	-1.10	-0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			30	NV	9.10	0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	7.20	0.0020	>=-2.5 & <=2.5	Pass

3.1.7 30k_SISO_80MHz

5G NR n78d SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-1.20	-0.0003	>=-2.5 & <=2.5	Pass
				HV	14.10	0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	11.00	0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	7.10	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	11.60	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	11.70	0.0032	>=-2.5 & <=2.5	Pass
			40	NV	5.10	0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	8.90	0.0025	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	11.30	0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	8.40	0.0023	>=-2.5 & <=2.5	Pass
			30	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	3.30	0.0009	>=-2.5 & <=2.5	Pass
				HV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	2.50	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	2.50	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	5.70	0.0016	>=-2.5 & <=2.5	Pass
			0	NV	7.80	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-0.90	-0.0002	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	7.70	0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	1.10	0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	11.10	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	6.60	0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass
			40	NV	7.30	0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	12.50	0.0034	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass
			40	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass

			50	NV	-12.40	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
				HV	9.80	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	11.50	0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	12.30	0.0034	>=-2.5 & <=2.5	Pass
			20	NV	9.70	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			50	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.40	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	6.90	0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	1.60	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	10.30	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			50	NV	6.20	0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-2.40	-0.0007	>=-2.5 & <=2.5	Pass
				HV	1.00	0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	15.30	0.0042	>=-2.5 & <=2.5	Pass
			0	NV	1.00	0.0003	>=-2.5 & <=2.5	Pass
			10	NV	13.70	0.0038	>=-2.5 & <=2.5	Pass
			20	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
			30	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			40	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			50	NV	19.40	0.0054	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	7.80	0.0022	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	4.60	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	9.00	0.0025	>=-2.5 & <=2.5	Pass
			30	NV	13.10	0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass

3.1.8 30k_SISO_90MHz

5G NR n78d SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-8.40	-0.0023	>=-2.5 & <=2.5	Pass
				HV	4.70	0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	8.80	0.0024	>=-2.5 & <=2.5	Pass

			10	NV	7.90	0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	16.10	0.0044	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-1.40	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	7.70	0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	4.80	0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	8.90	0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	6.40	0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.90	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-11.10	-0.0031	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.90	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	6.80	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-8.20	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	2.70	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	4.90	0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-6.80	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	18.00	0.0050	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-2.10	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	12.10	0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	6.30	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	8.20	0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.40	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-8.80	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	3.30	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-5.40	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	1.50	0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-8.60	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	9.70	0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-9.80	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	7.70	0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	13.50	0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	13.30	0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-3.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	8.80	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.70	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-1.20	-0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	7.80	0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	10.90	0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	2.00	0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	3.90	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	8.70	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-4.90	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	3.00	0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	3.20	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-2.20	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	2.80	0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	13.70	0.0038	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	9.10	0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-4.50	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	6.90	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	7.70	0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	8.30	0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	1.90	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	5.20	0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.60	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	2.10	0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-0.60	-0.0002	$\geq -2.5 \ \& \ \leq 2.5$	Pass

			50	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
				HV	7.60	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	11.80	0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	11.40	0.0031	>=-2.5 & <=2.5	Pass
			0	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	5.50	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-13.40	-0.0037	>=-2.5 & <=2.5	Pass
			50	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
				HV	13.20	0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	8.10	0.0022	>=-2.5 & <=2.5	Pass
			0	NV	5.00	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	8.40	0.0023	>=-2.5 & <=2.5	Pass
			20	NV	8.60	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			50	NV	6.40	0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-0.80	-0.0002	>=-2.5 & <=2.5	Pass
				HV	9.10	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	13.90	0.0038	>=-2.5 & <=2.5	Pass
			10	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			20	NV	11.40	0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	7.00	0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-6.10	-0.0017	>=-2.5 & <=2.5	Pass

3.1.9 30k_SISO_100MHz

5G NR n78d SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-8.20	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	2.10	0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	6.70	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-11.50	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	4.90	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass

			10	NV	-7.60	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	9.30	0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	1.80	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-15.60	-0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	15.50	0.0043	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	11.40	0.0031	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	5.70	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	6.90	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-11.80	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.90	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	5.90	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	7.60	0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.00	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	3.40	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-14.80	-0.0041	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-7.50	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-13.40	-0.0037	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-7.40	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	6.30	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	10.40	0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	6.10	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-5.10	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.10	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	1.30	0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-0.90	-0.0002	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	5.40	0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-7.60	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	6.00	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	9.00	0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-3.30	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	6.80	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	6.80	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	4.00	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	5.40	0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.80	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	4.40	0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	8.60	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-1.80	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-4.60	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-8.30	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	5.90	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-3.30	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	4.70	0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	7.20	0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-10.60	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	11.20	0.0031	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	8.80	0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-10.70	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	2.60	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	6.30	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-9.40	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	4.30	0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	10.90	0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-2.20	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	3.20	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	11.10	0.0031	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	1.70	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-3.70	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass

			50	NV	14.40	0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	9.10	0.0025	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	4.70	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	14.70	0.0041	>=-2.5 & <=2.5	Pass
			50	NV	-12.50	-0.0034	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-13.20	-0.0036	>=-2.5 & <=2.5	Pass
				HV	2.80	0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	3.10	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	8.30	0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
			50	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 30k_SISO_20MHz_NTNV

5G NR n78d SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	18.18	19.59	/	Pass
	3624.99	Outer_Full	18.09	19.48	/	Pass
	3690	Outer_Full	18.11	19.35	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.10	19.61	/	Pass
	3624.99	Outer_Full	18.10	19.41	/	Pass
	3690	Outer_Full	18.05	19.76	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.14	19.67	/	Pass
	3624.99	Outer_Full	18.09	19.77	/	Pass
	3690	Outer_Full	18.18	19.46	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.16	19.59	/	Pass
	3624.99	Outer_Full	18.10	19.47	/	Pass
	3690	Outer_Full	18.15	19.49	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.05	19.57	/	Pass
	3624.99	Outer_Full	18.00	19.39	/	Pass
	3690	Outer_Full	18.07	19.45	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.43	20.02	/	Pass
	3624.99	Outer_Full	18.41	19.93	/	Pass
	3690	Outer_Full	18.38	20.04	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.44	20.05	/	Pass
	3624.99	Outer_Full	18.45	19.81	/	Pass
	3690	Outer_Full	18.36	19.72	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.28	19.89	/	Pass
	3624.99	Outer_Full	18.38	20.09	/	Pass

	3690	Outer_Full	18.32	19.91	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.35	19.95	/	Pass
	3624.99	Outer_Full	18.37	20.04	/	Pass
	3690	Outer_Full	18.42	19.99	/	Pass

4.1.2 30k_SISO_30MHz_NTNV

5G NR n78d SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	27.08	29.13	/	Pass
	3624.99	Outer_Full	27.13	28.98	/	Pass
	3684.99	Outer_Full	27.08	28.94	/	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	27.12	29.14	/	Pass
	3624.99	Outer_Full	27.15	29.14	/	Pass
	3684.99	Outer_Full	27.10	29.06	/	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	27.16	29.04	/	Pass
	3624.99	Outer_Full	27.11	29.10	/	Pass
	3684.99	Outer_Full	27.09	29.19	/	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	26.98	29.11	/	Pass
	3624.99	Outer_Full	27.05	28.97	/	Pass
	3684.99	Outer_Full	27.03	29.02	/	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	27.13	28.98	/	Pass
	3624.99	Outer_Full	27.15	29.03	/	Pass
	3684.99	Outer_Full	27.06	28.95	/	Pass
CP-OFDM QPSK	3565.02	Outer_Full	28.09	29.97	/	Pass
	3624.99	Outer_Full	28.13	30.00	/	Pass
	3684.99	Outer_Full	28.12	30.14	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	28.11	29.97	/	Pass
	3624.99	Outer_Full	28.08	30.14	/	Pass
	3684.99	Outer_Full	28.11	29.99	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	28.17	30.56	/	Pass
	3624.99	Outer_Full	28.07	30.25	/	Pass
	3684.99	Outer_Full	28.04	30.75	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.06	29.99	/	Pass
	3624.99	Outer_Full	28.02	30.16	/	Pass
	3684.99	Outer_Full	28.10	30.05	/	Pass

4.1.3 30k_SISO_40MHz_NTNV

5G NR n78d 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	3570	Outer_Full	36.09	38.49	/	Pass
	3624.99	Outer_Full	36.03	38.41	/	Pass
	3679.98	Outer_Full	36.03	38.47	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	35.96	38.81	/	Pass
	3624.99	Outer_Full	35.96	38.71	/	Pass
	3679.98	Outer_Full	36.05	38.68	/	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	35.96	38.65	/	Pass
	3624.99	Outer_Full	36.06	38.55	/	Pass
	3679.98	Outer_Full	35.98	38.44	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	36.06	38.62	/	Pass
	3624.99	Outer_Full	35.98	38.63	/	Pass
	3679.98	Outer_Full	36.23	38.67	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	35.87	38.73	/	Pass

	3624.99	Outer_Full	36.05	38.60	/	Pass
	3679.98	Outer_Full	36.08	38.67	/	Pass
	3570	Outer_Full	38.14	40.82	/	Pass
CP-OFDM QPSK	3624.99	Outer_Full	38.28	40.71	/	Pass
	3679.98	Outer_Full	38.16	40.74	/	Pass
	3570	Outer_Full	38.23	40.70	/	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	38.28	40.67	/	Pass
	3679.98	Outer_Full	38.35	40.83	/	Pass
	3570	Outer_Full	38.04	40.70	/	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	38.19	40.65	/	Pass
	3679.98	Outer_Full	38.13	40.80	/	Pass
	3570	Outer_Full	38.18	40.82	/	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	38.10	40.65	/	Pass
	3679.98	Outer_Full	38.12	40.78	/	Pass

4.1.4 30k_SISO_50MHz_NTNV

5G NR n78d 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	3575.01	Outer_Full	46.13	49.33	/	Pass
	3624.99	Outer_Full	46.14	49.31	/	Pass
	3675	Outer_Full	46.01	49.31	/	Pass
DFT-s-OFDM QPSK	3575.01	Outer_Full	46.10	49.33	/	Pass
	3624.99	Outer_Full	46.01	49.26	/	Pass
	3675	Outer_Full	45.91	49.31	/	Pass
DFT-s-OFDM 16 QAM	3575.01	Outer_Full	46.07	49.19	/	Pass
	3624.99	Outer_Full	46.15	49.31	/	Pass
	3675	Outer_Full	46.07	49.29	/	Pass
DFT-s-OFDM 64 QAM	3575.01	Outer_Full	46.09	49.24	/	Pass
	3624.99	Outer_Full	46.14	49.28	/	Pass
	3675	Outer_Full	46.09	49.23	/	Pass
DFT-s-OFDM 256 QAM	3575.01	Outer_Full	45.92	49.34	/	Pass
	3624.99	Outer_Full	46.17	49.38	/	Pass
	3675	Outer_Full	46.09	49.07	/	Pass
CP-OFDM QPSK	3575.01	Outer_Full	47.84	51.05	/	Pass
	3624.99	Outer_Full	47.96	51.07	/	Pass
	3675	Outer_Full	47.86	50.92	/	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	47.76	51.08	/	Pass
	3624.99	Outer_Full	47.93	51.06	/	Pass
	3675	Outer_Full	47.81	51.00	/	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	47.88	50.99	/	Pass
	3624.99	Outer_Full	47.89	51.07	/	Pass
	3675	Outer_Full	47.76	51.05	/	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	47.90	51.12	/	Pass
	3624.99	Outer_Full	47.84	50.81	/	Pass
	3675	Outer_Full	47.82	50.98	/	Pass

4.1.5 30k_SISO_60MHz_NTNV

5G NR n78d 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	3580.02	Outer_Full	58.34	62.37	/	Pass
	3624.99	Outer_Full	58.39	62.23	/	Pass
	3669.99	Outer_Full	58.44	62.16	/	Pass

DFT-s-OFDM QPSK	3580.02	Outer_Full	58.47	62.23	/	Pass
	3624.99	Outer_Full	58.42	62.17	/	Pass
	3669.99	Outer_Full	58.16	62.26	/	Pass
DFT-s-OFDM 16 QAM	3580.02	Outer_Full	58.41	62.29	/	Pass
	3624.99	Outer_Full	58.24	62.07	/	Pass
	3669.99	Outer_Full	58.40	62.27	/	Pass
DFT-s-OFDM 64 QAM	3580.02	Outer_Full	58.27	62.17	/	Pass
	3624.99	Outer_Full	58.36	61.99	/	Pass
	3669.99	Outer_Full	58.32	62.12	/	Pass
DFT-s-OFDM 256 QAM	3580.02	Outer_Full	58.30	62.20	/	Pass
	3624.99	Outer_Full	58.19	62.19	/	Pass
	3669.99	Outer_Full	58.28	62.02	/	Pass
CP-OFDM QPSK	3580.02	Outer_Full	58.31	62.14	/	Pass
	3624.99	Outer_Full	58.25	62.28	/	Pass
	3669.99	Outer_Full	58.45	61.97	/	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	58.20	62.08	/	Pass
	3624.99	Outer_Full	58.14	62.19	/	Pass
	3669.99	Outer_Full	58.34	62.32	/	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	58.20	62.02	/	Pass
	3624.99	Outer_Full	58.31	62.05	/	Pass
	3669.99	Outer_Full	58.25	62.15	/	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	58.39	62.10	/	Pass
	3624.99	Outer_Full	58.23	62.14	/	Pass
	3669.99	Outer_Full	58.15	62.08	/	Pass

4.1.6 30k_SISO_70MHz_NTNV

5G NR n78d SCS=30kHz SISO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3585	Outer_Full	64.86	69.22	/	Pass
	3624.99	Outer_Full	65.02	69.47	/	Pass
	3664.98	Outer_Full	65.09	69.30	/	Pass
DFT-s-OFDM QPSK	3585	Outer_Full	64.88	69.31	/	Pass
	3624.99	Outer_Full	64.94	69.69	/	Pass
	3664.98	Outer_Full	64.92	69.53	/	Pass
DFT-s-OFDM 16 QAM	3585	Outer_Full	64.82	69.52	/	Pass
	3624.99	Outer_Full	65.01	69.61	/	Pass
	3664.98	Outer_Full	64.84	69.33	/	Pass
DFT-s-OFDM 64 QAM	3585	Outer_Full	65.11	69.30	/	Pass
	3624.99	Outer_Full	65.01	69.51	/	Pass
	3664.98	Outer_Full	64.95	69.49	/	Pass
DFT-s-OFDM 256 QAM	3585	Outer_Full	65.02	69.49	/	Pass
	3624.99	Outer_Full	64.87	69.57	/	Pass
	3664.98	Outer_Full	64.99	69.46	/	Pass
CP-OFDM QPSK	3585	Outer_Full	67.93	72.71	/	Pass
	3624.99	Outer_Full	68.16	72.59	/	Pass
	3664.98	Outer_Full	68.09	72.72	/	Pass
CP-OFDM 16 QAM	3585	Outer_Full	67.99	72.44	/	Pass
	3624.99	Outer_Full	68.24	72.78	/	Pass
	3664.98	Outer_Full	68.04	73.99	/	Pass
CP-OFDM 64 QAM	3585	Outer_Full	67.89	72.61	/	Pass
	3624.99	Outer_Full	68.17	72.74	/	Pass
	3664.98	Outer_Full	68.03	73.05	/	Pass
CP-OFDM 256 QAM	3585	Outer_Full	67.91	72.28	/	Pass
	3624.99	Outer_Full	67.95	72.50	/	Pass
	3664.98	Outer_Full	68.11	72.54	/	Pass

4.1.7 30k_SISO_80MHz_NTNV

5G NR n78d SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	77.85	82.83	/	Pass
	3624.99	Outer_Full	77.84	82.80	/	Pass
	3660	Outer_Full	77.85	82.92	/	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	77.66	82.85	/	Pass
	3624.99	Outer_Full	77.72	83.05	/	Pass
	3660	Outer_Full	77.77	83.02	/	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	77.90	82.91	/	Pass
	3624.99	Outer_Full	77.86	82.93	/	Pass
	3660	Outer_Full	77.88	83.04	/	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	77.87	82.94	/	Pass
	3624.99	Outer_Full	77.81	82.99	/	Pass
	3660	Outer_Full	77.53	83.04	/	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	77.78	82.95	/	Pass
	3624.99	Outer_Full	77.71	82.98	/	Pass
	3660	Outer_Full	77.48	82.95	/	Pass
CP-OFDM QPSK	3590.01	Outer_Full	77.80	83.36	/	Pass
	3624.99	Outer_Full	78.34	83.28	/	Pass
	3660	Outer_Full	78.19	83.24	/	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	78.20	83.27	/	Pass
	3624.99	Outer_Full	78.27	83.55	/	Pass
	3660	Outer_Full	78.10	83.56	/	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	78.10	83.13	/	Pass
	3624.99	Outer_Full	78.32	83.27	/	Pass
	3660	Outer_Full	78.15	83.58	/	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	78.21	82.86	/	Pass
	3624.99	Outer_Full	77.90	83.37	/	Pass
	3660	Outer_Full	78.02	83.36	/	Pass

4.1.8 30k_SISO_90MHz_NTNV

5G NR n78d SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3595.02	Outer_Full	89.25	101.33	/	Pass
	3624.99	Outer_Full	87.16	92.01	/	Pass
	3654.99	Outer_Full	88.07	92.09	/	Pass
DFT-s-OFDM QPSK	3595.02	Outer_Full	88.17	100.62	/	Pass
	3624.99	Outer_Full	86.99	92.34	/	Pass
	3654.99	Outer_Full	87.13	92.32	/	Pass
DFT-s-OFDM 16 QAM	3595.02	Outer_Full	87.95	100.49	/	Pass
	3624.99	Outer_Full	87.25	92.18	/	Pass
	3654.99	Outer_Full	87.28	92.19	/	Pass
DFT-s-OFDM 64 QAM	3595.02	Outer_Full	87.88	99.21	/	Pass
	3624.99	Outer_Full	87.21	92.24	/	Pass
	3654.99	Outer_Full	87.27	90.75	/	Pass
DFT-s-OFDM 256 QAM	3595.02	Outer_Full	87.50	97.48	/	Pass
	3624.99	Outer_Full	86.81	92.03	/	Pass
	3654.99	Outer_Full	86.99	92.01	/	Pass
CP-OFDM QPSK	3595.02	Outer_Full	88.56	99.25	/	Pass
	3624.99	Outer_Full	87.69	92.82	/	Pass

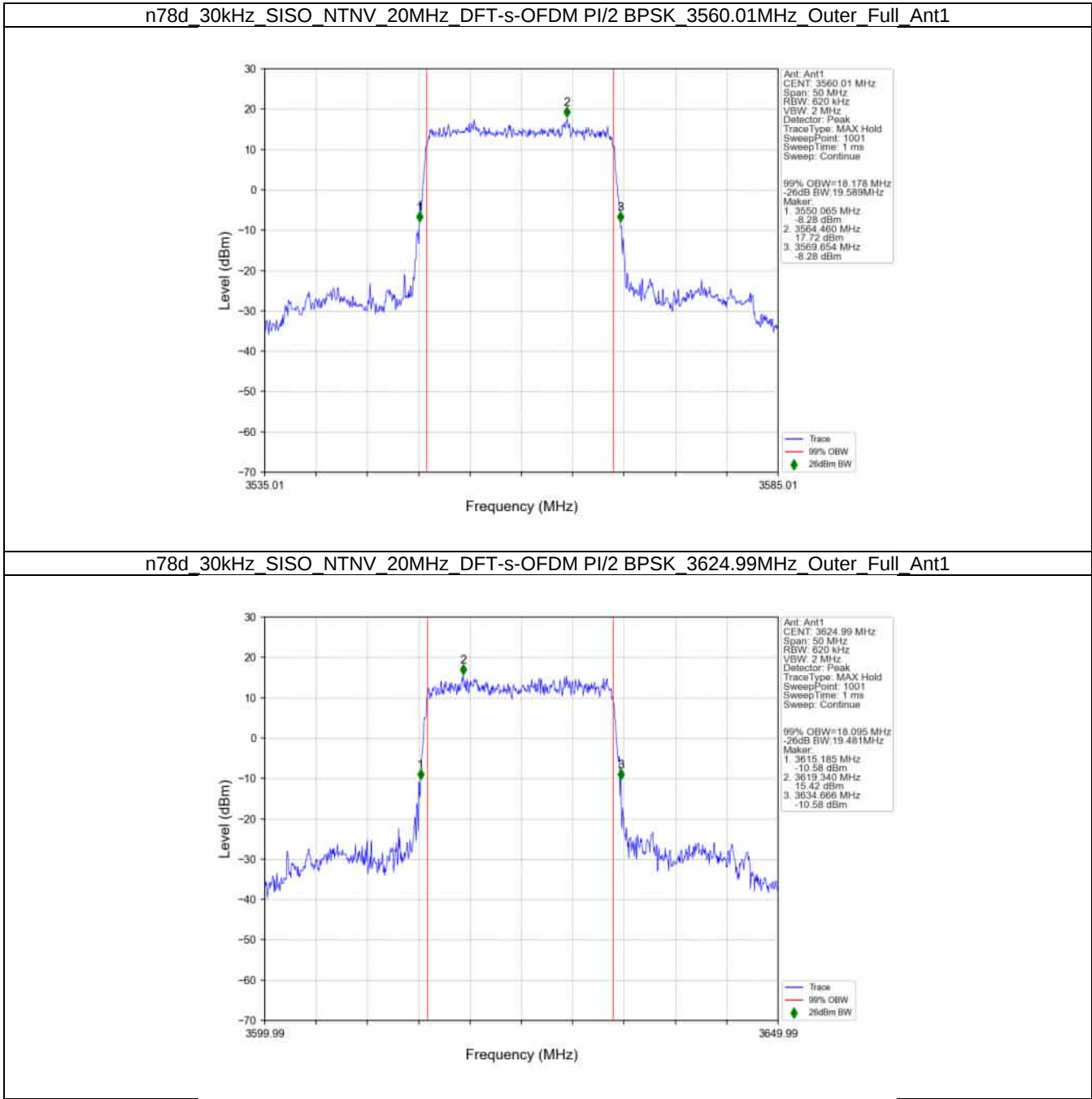
	3654.99	Outer_Full	87.95	92.87	/	Pass
CP-OFDM 16 QAM	3595.02	Outer_Full	88.66	100.74	/	Pass
	3624.99	Outer_Full	87.76	92.69	/	Pass
	3654.99	Outer_Full	87.92	92.89	/	Pass
CP-OFDM 64 QAM	3595.02	Outer_Full	89.67	100.46	/	Pass
	3624.99	Outer_Full	87.94	92.91	/	Pass
	3654.99	Outer_Full	87.93	92.99	/	Pass
CP-OFDM 256 QAM	3595.02	Outer_Full	90.12	97.42	/	Pass
	3624.99	Outer_Full	88.14	92.78	/	Pass
	3654.99	Outer_Full	87.87	92.90	/	Pass

4.1.9 30k_SISO_100MHz_NTNV

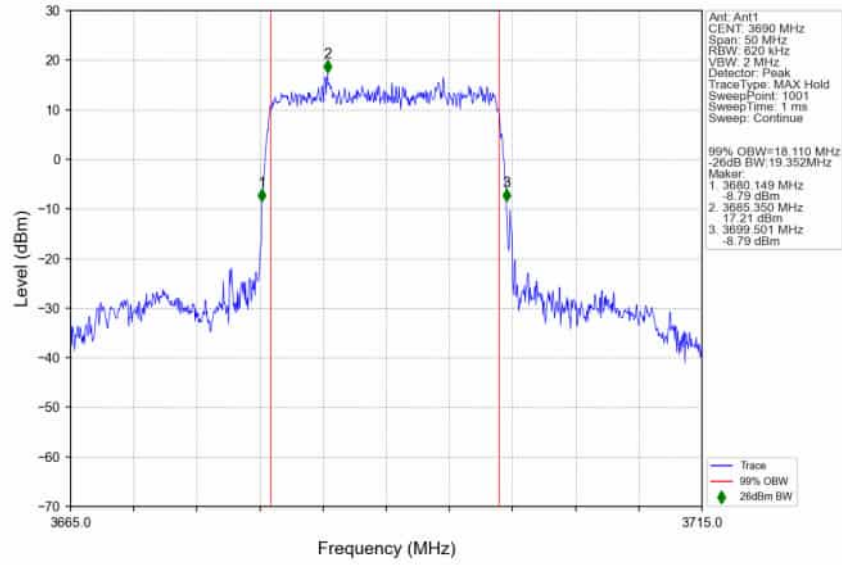
5G NR n78d SCS=30kHz SISO 100MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3600	Outer_Full	97.67	111.01	/	Pass
	3624.99	Outer_Full	96.81	101.86	/	Pass
	3649.98	Outer_Full	97.00	101.89	/	Pass
DFT-s-OFDM QPSK	3600	Outer_Full	97.79	110.75	/	Pass
	3624.99	Outer_Full	96.85	101.86	/	Pass
	3649.98	Outer_Full	96.85	101.86	/	Pass
DFT-s-OFDM 16 QAM	3600	Outer_Full	97.81	109.21	/	Pass
	3624.99	Outer_Full	96.83	101.90	/	Pass
	3649.98	Outer_Full	96.84	101.87	/	Pass
DFT-s-OFDM 64 QAM	3600	Outer_Full	98.88	109.70	/	Pass
	3624.99	Outer_Full	96.74	101.92	/	Pass
	3649.98	Outer_Full	96.78	101.92	/	Pass
DFT-s-OFDM 256 QAM	3600	Outer_Full	97.02	104.99	/	Pass
	3624.99	Outer_Full	96.63	101.93	/	Pass
	3649.98	Outer_Full	96.71	102.06	/	Pass
CP-OFDM QPSK	3600	Outer_Full	98.66	109.89	/	Pass
	3624.99	Outer_Full	97.75	103.02	/	Pass
	3649.98	Outer_Full	97.79	102.98	/	Pass
CP-OFDM 16 QAM	3600	Outer_Full	98.45	110.01	/	Pass
	3624.99	Outer_Full	97.68	102.99	/	Pass
	3649.98	Outer_Full	97.73	103.07	/	Pass
CP-OFDM 64 QAM	3600	Outer_Full	99.69	110.21	/	Pass
	3624.99	Outer_Full	97.72	102.94	/	Pass
	3649.98	Outer_Full	97.67	102.93	/	Pass
CP-OFDM 256 QAM	3600	Outer_Full	98.03	104.27	/	Pass
	3624.99	Outer_Full	97.69	102.84	/	Pass
	3649.98	Outer_Full	97.81	103.02	/	Pass

4.2 Test Graph

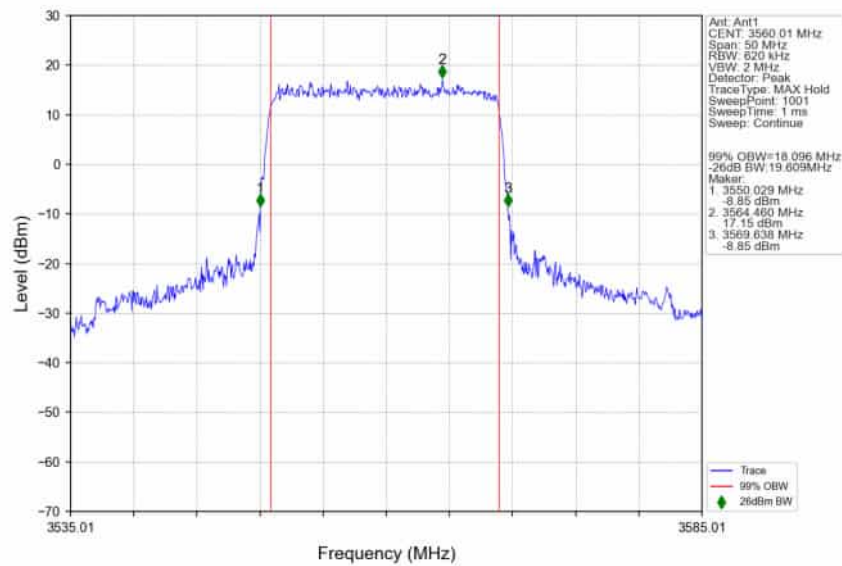
4.2.1 30k_SISO_20MHz_NTNV



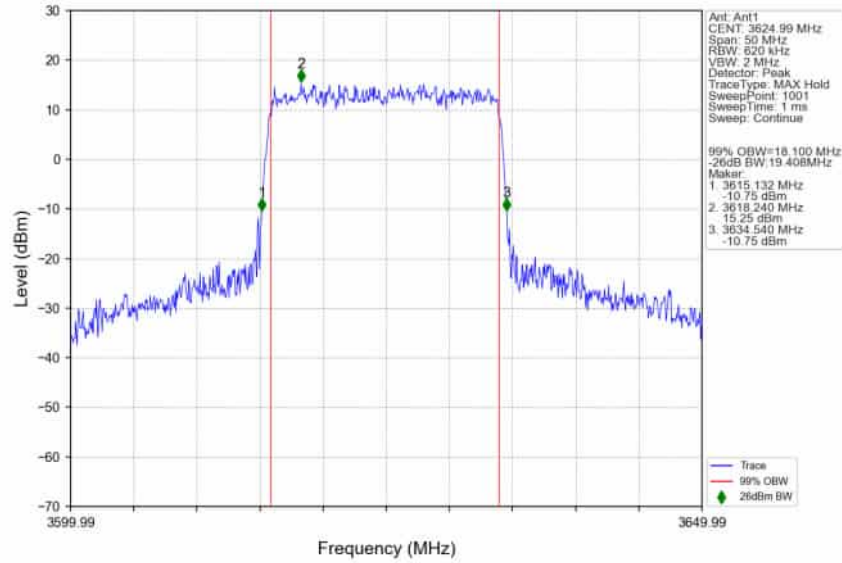
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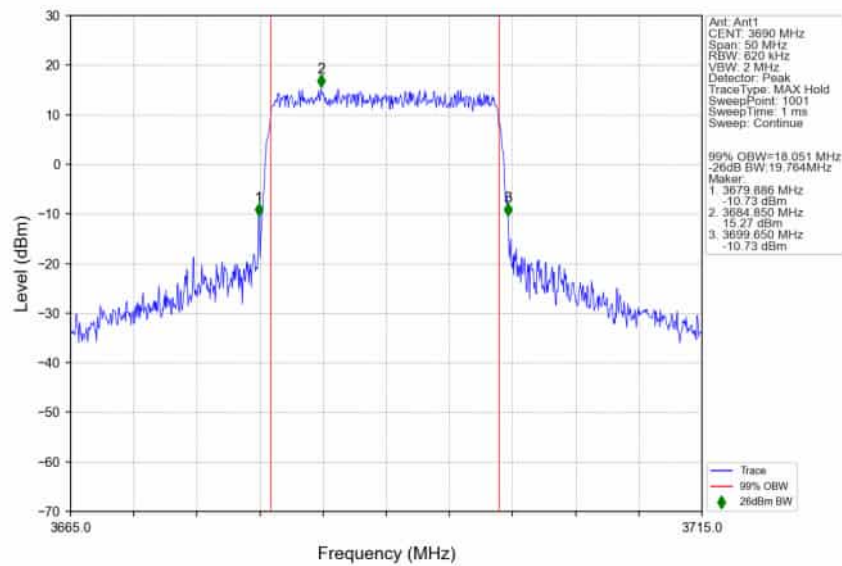
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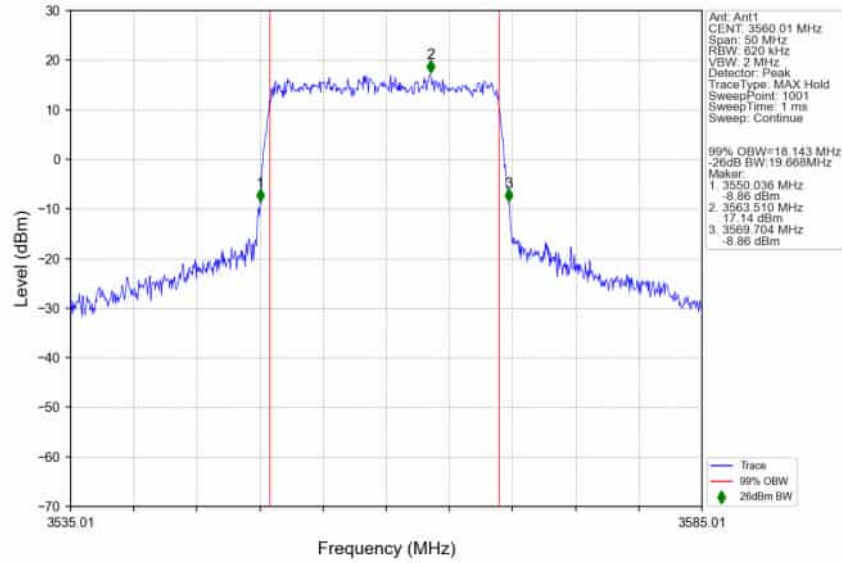
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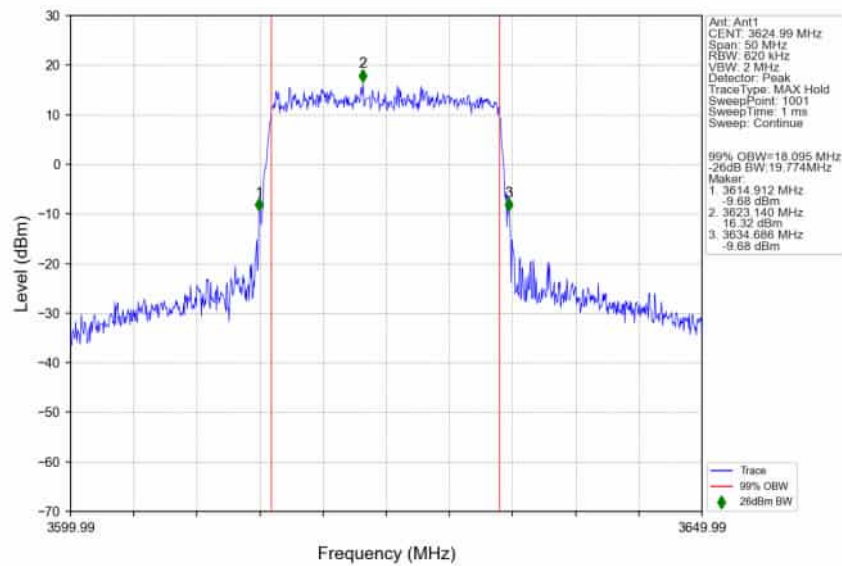
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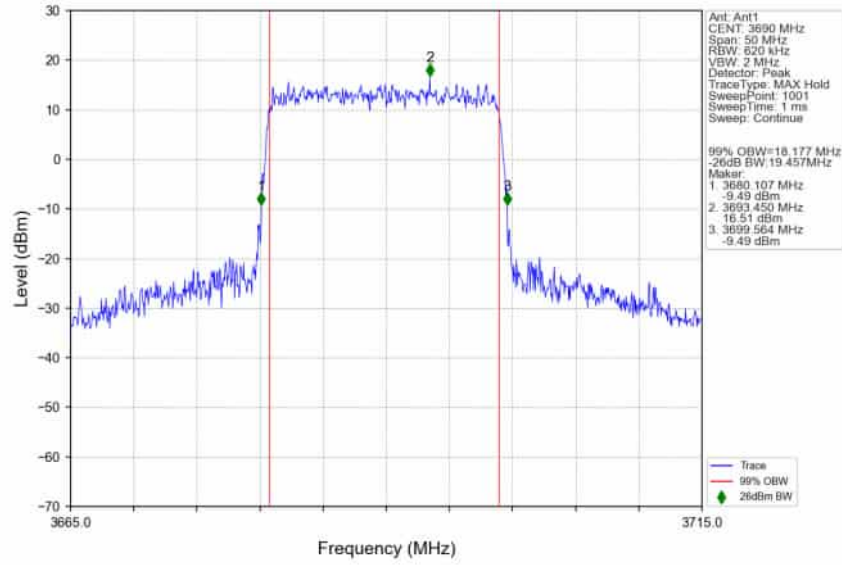
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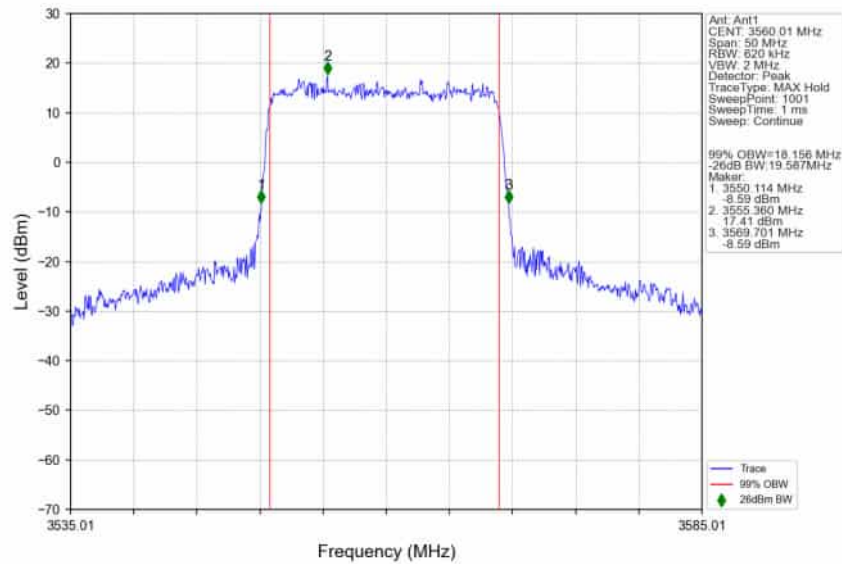
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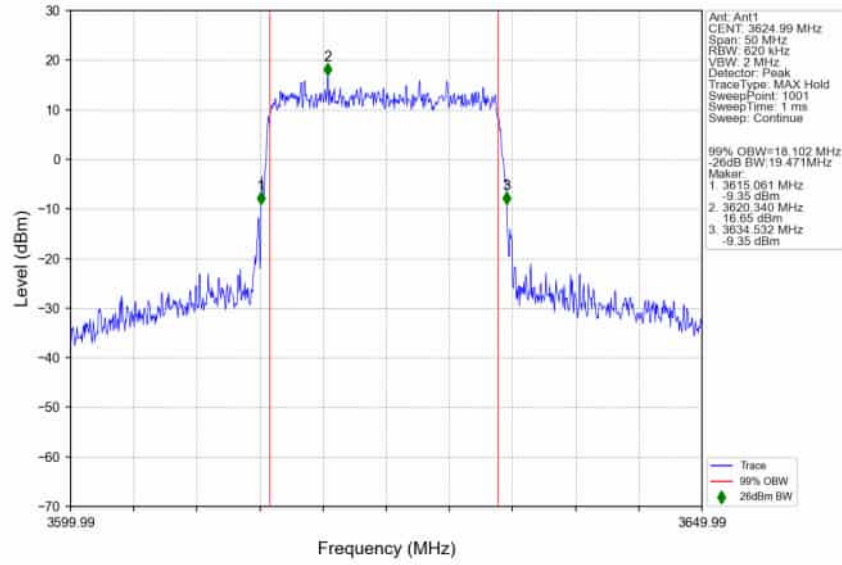
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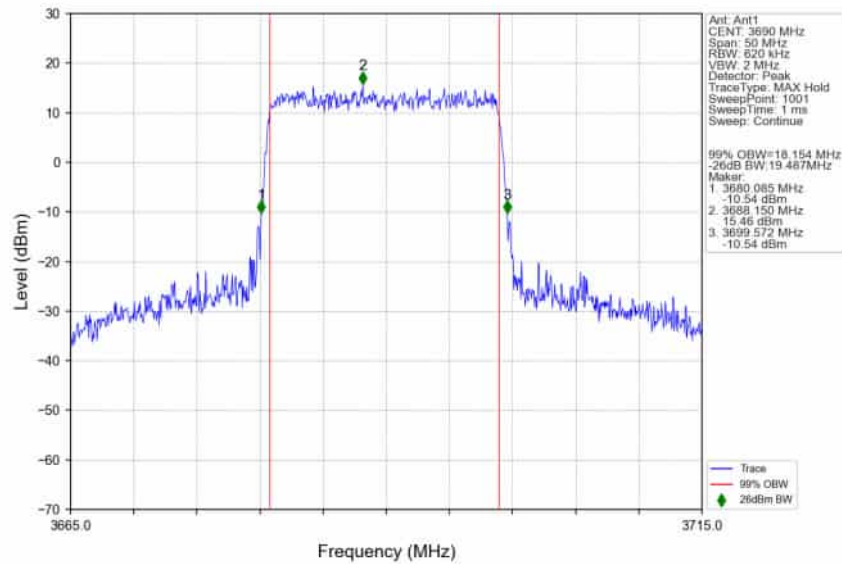
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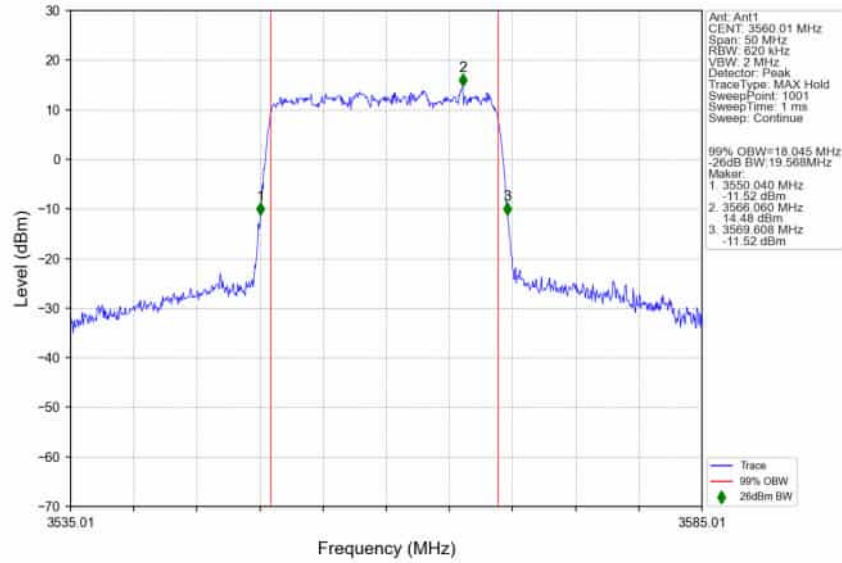
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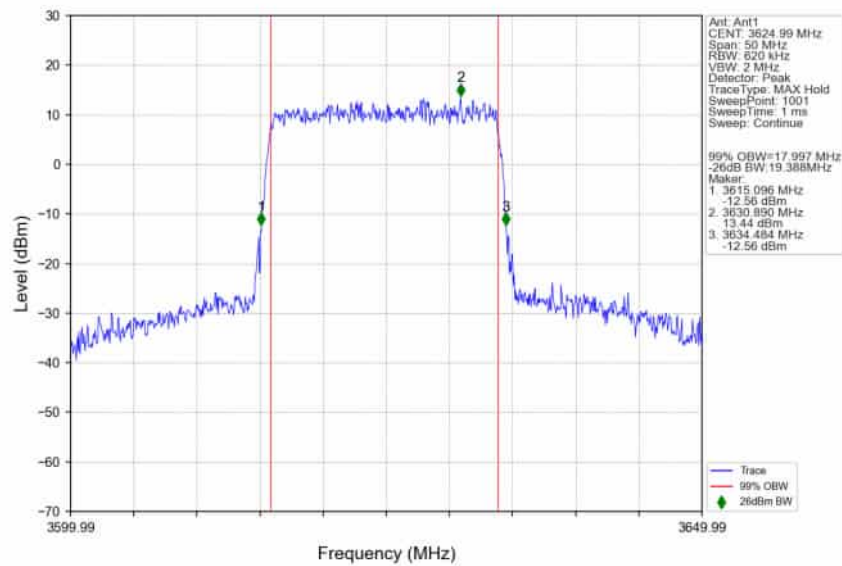
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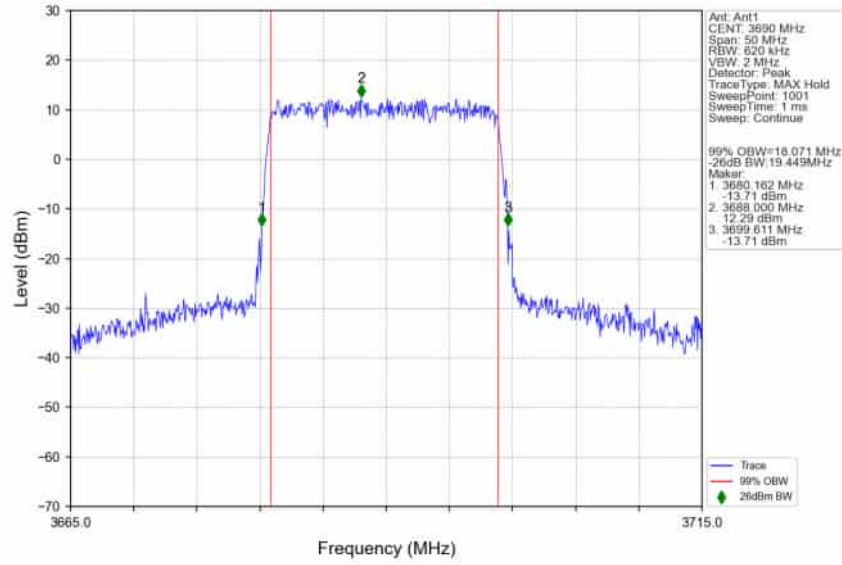
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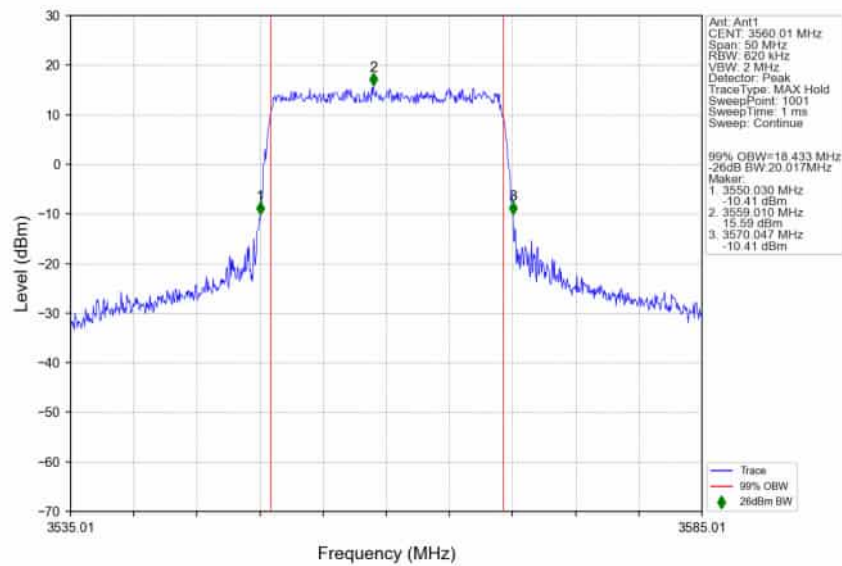
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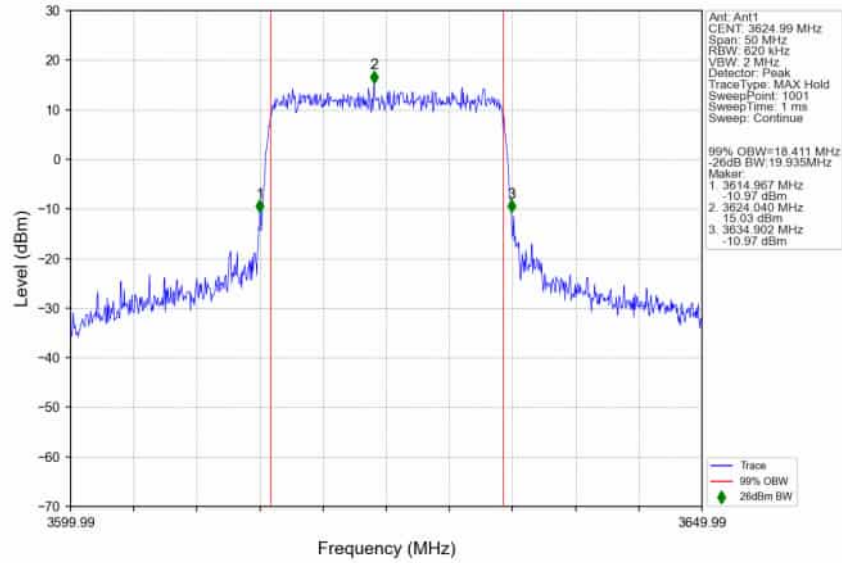
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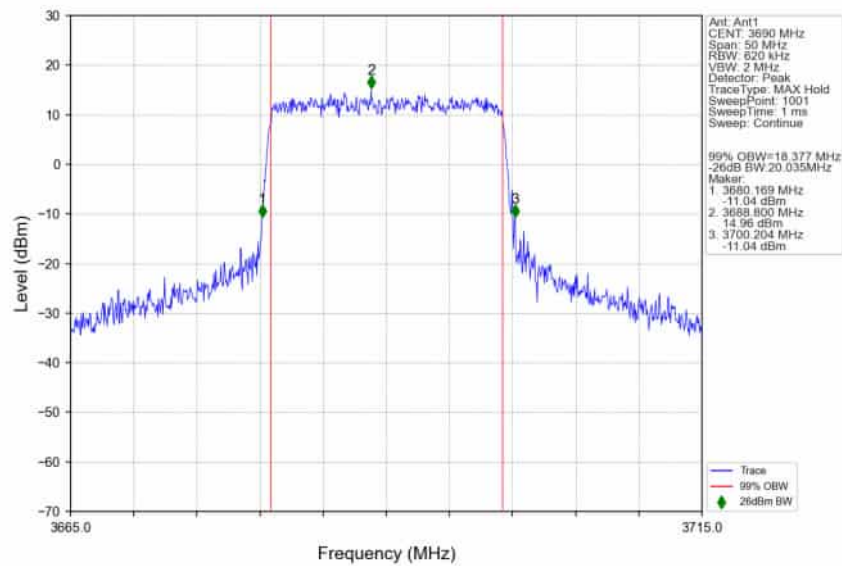
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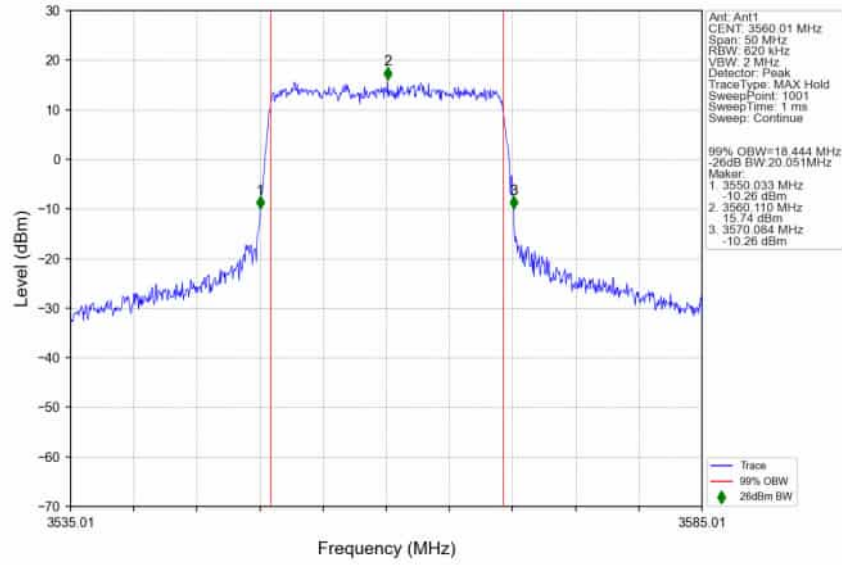
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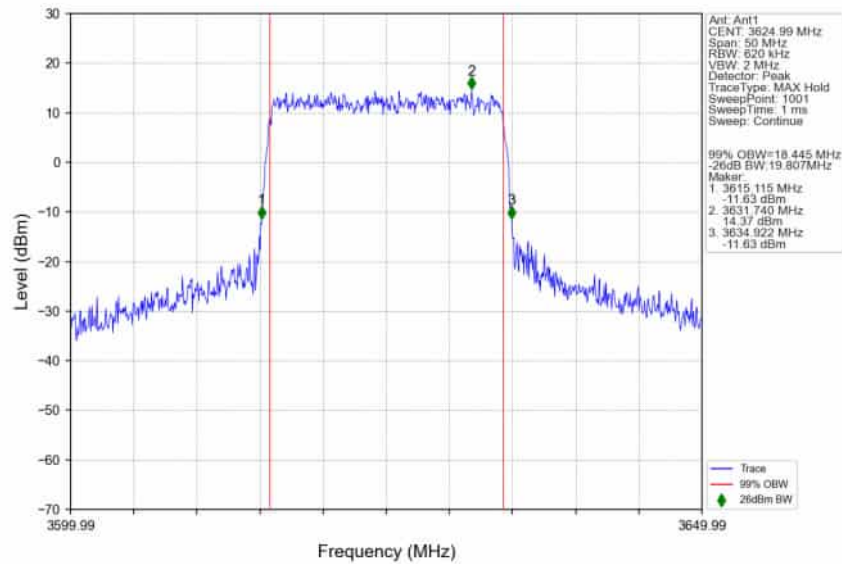
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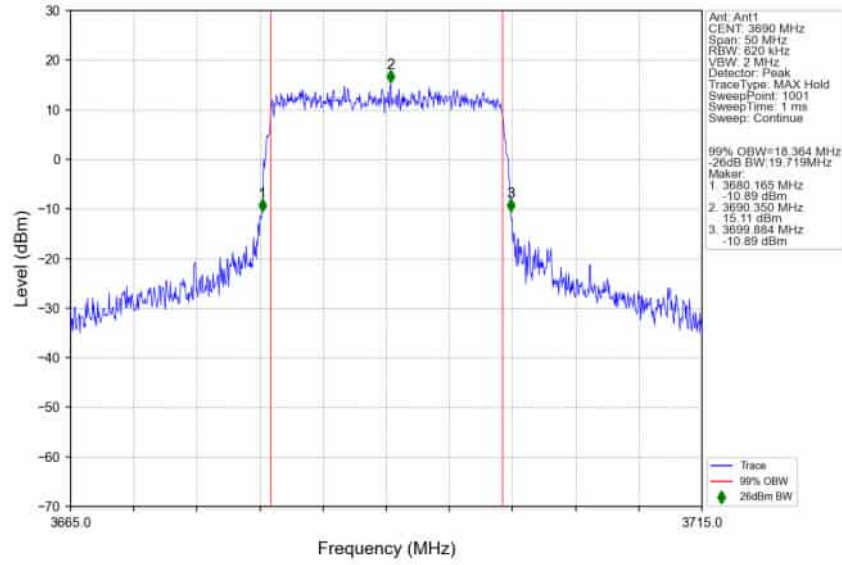
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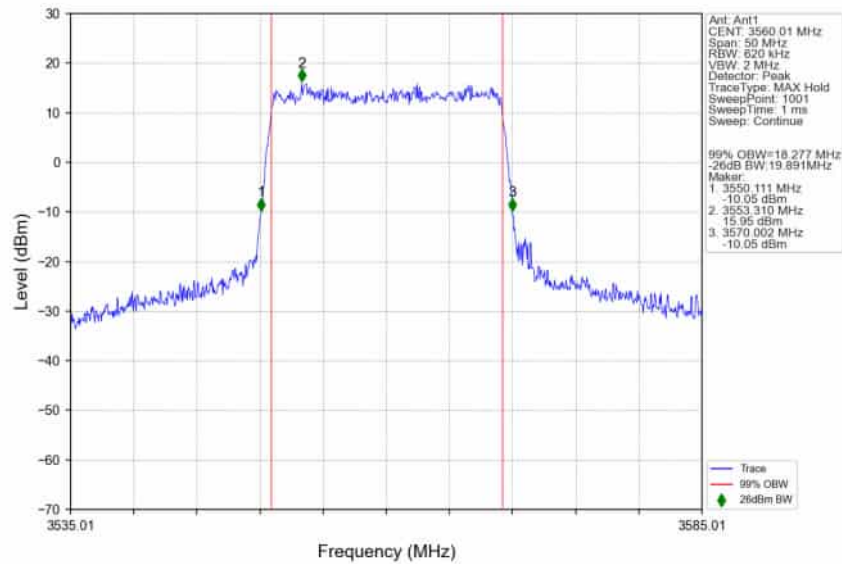
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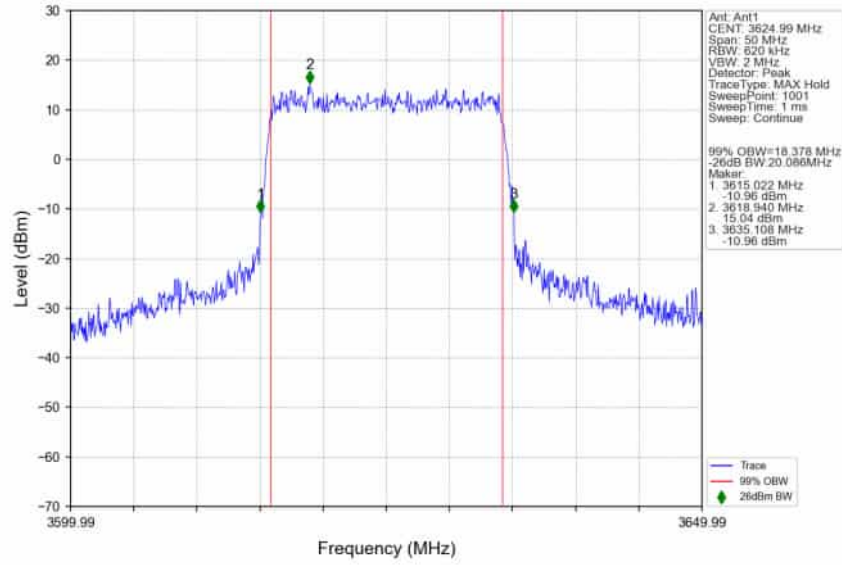
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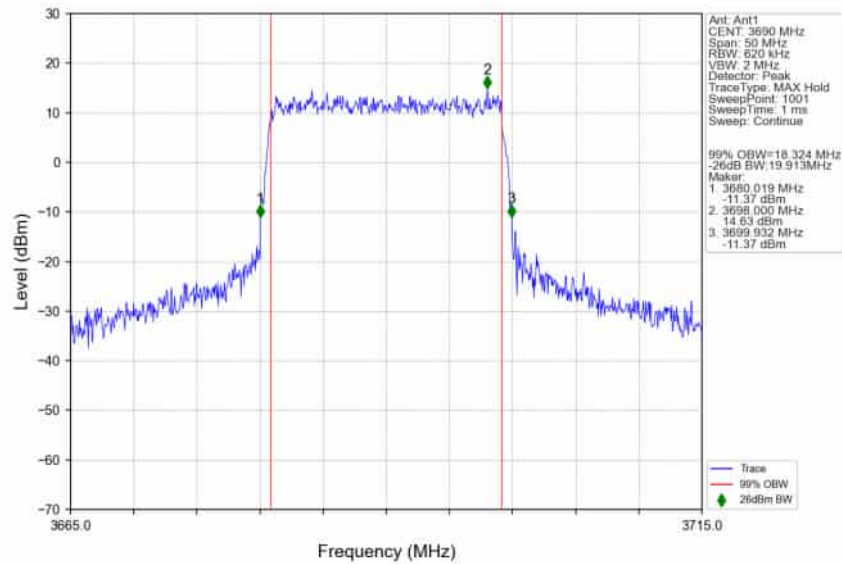
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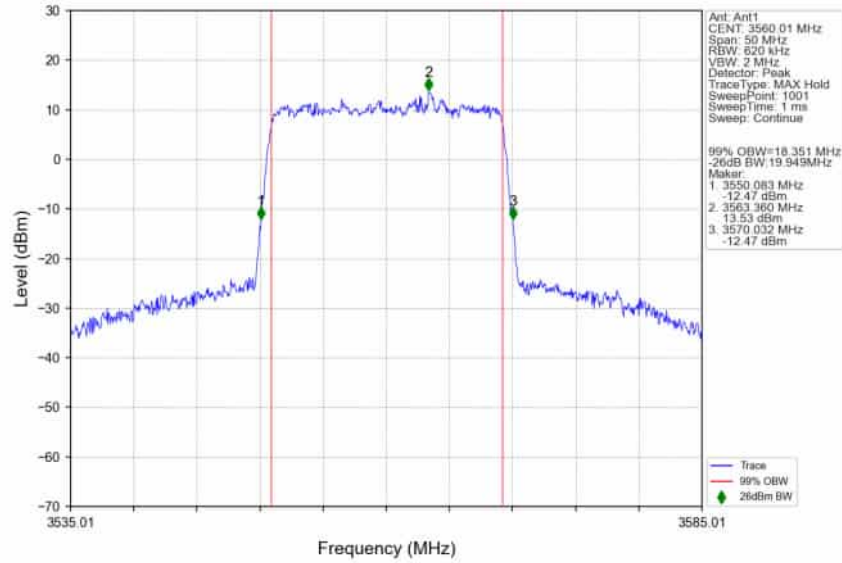
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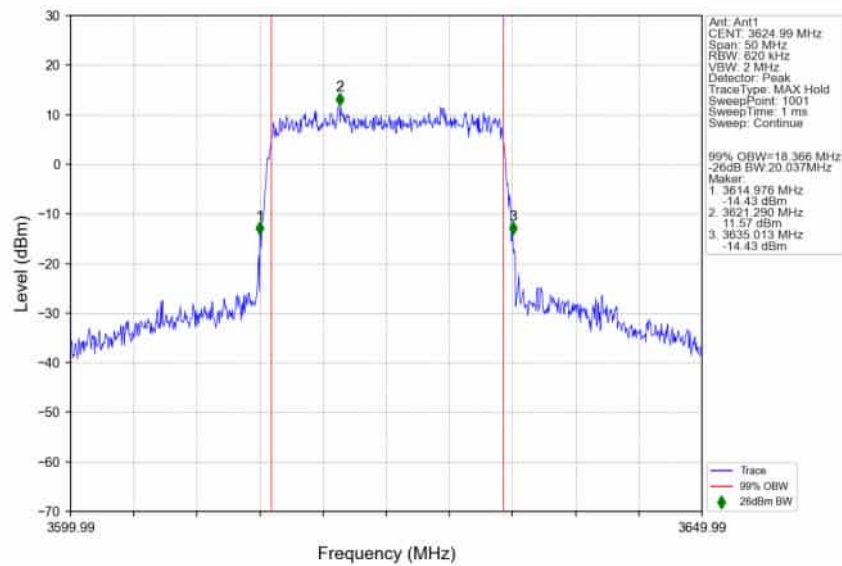
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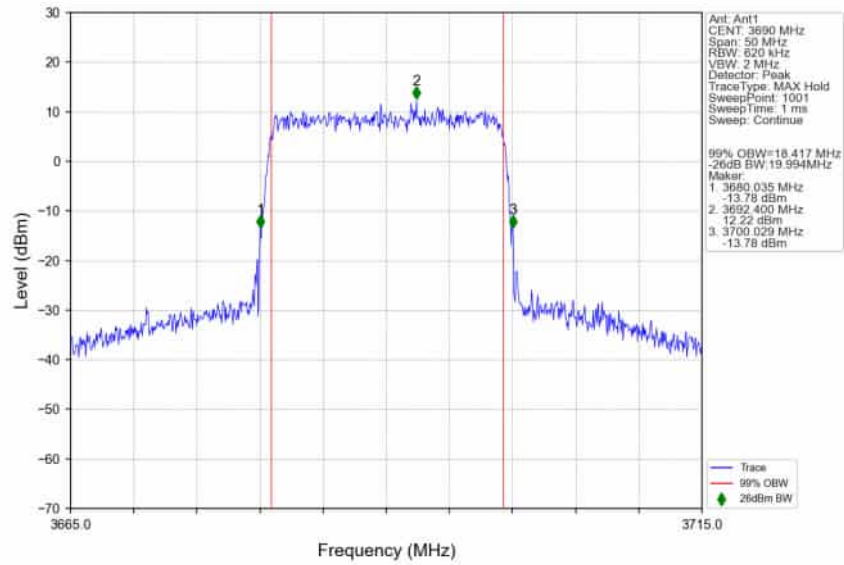
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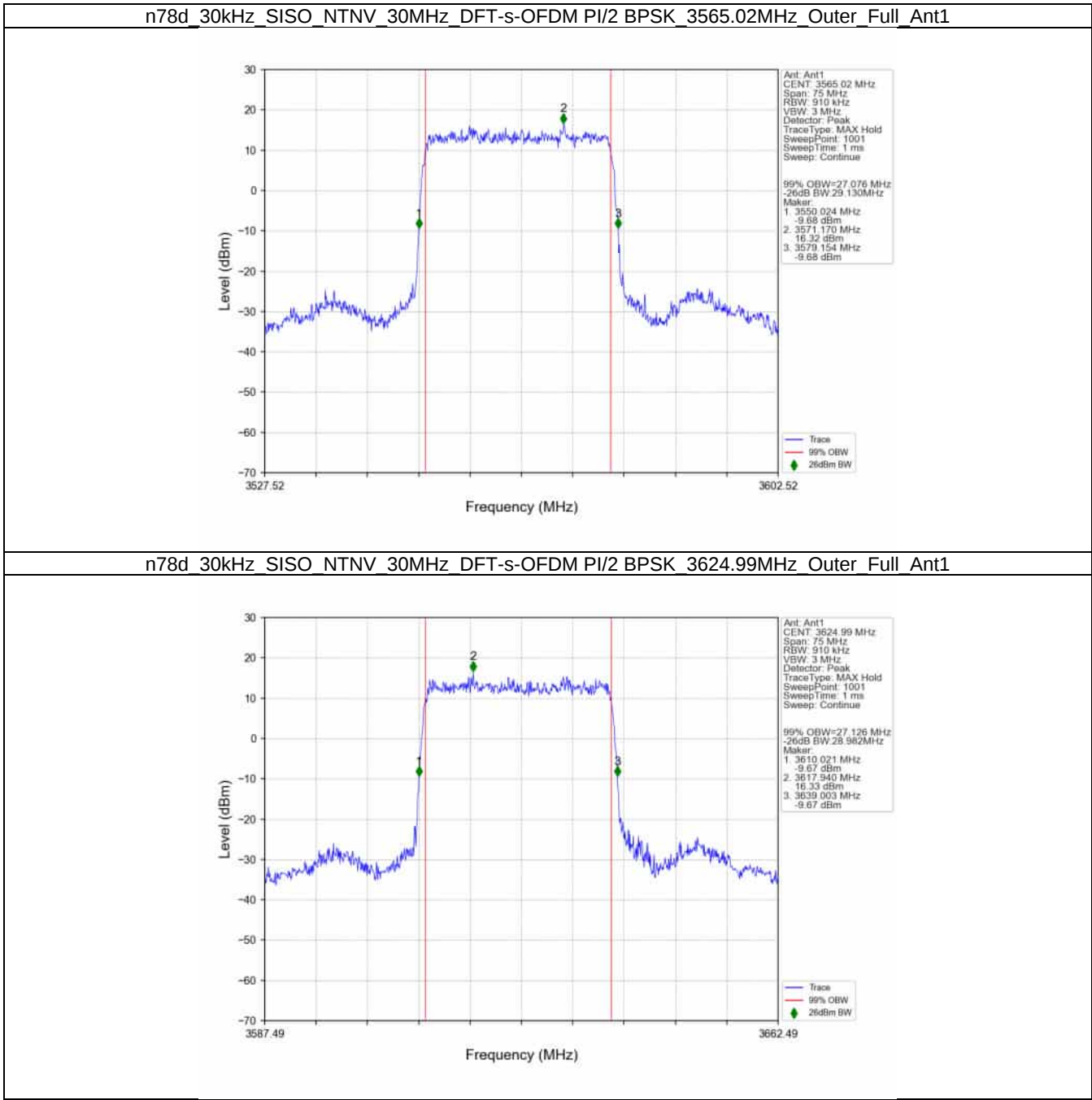
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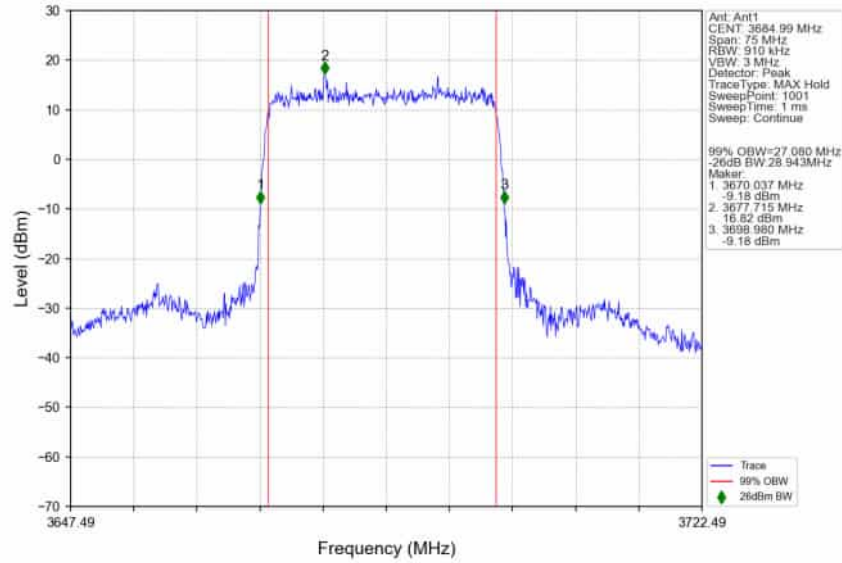
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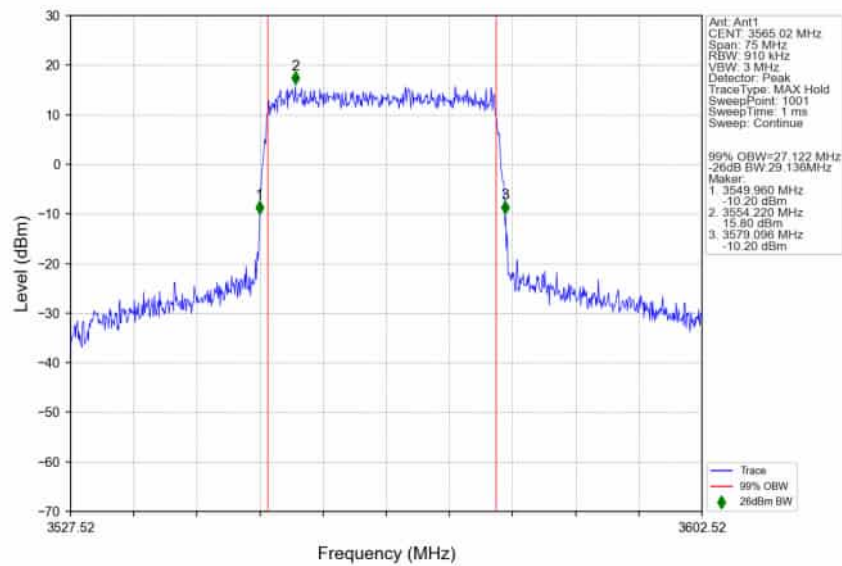
4.2.2 30k_SISO_30MHz_NTNV



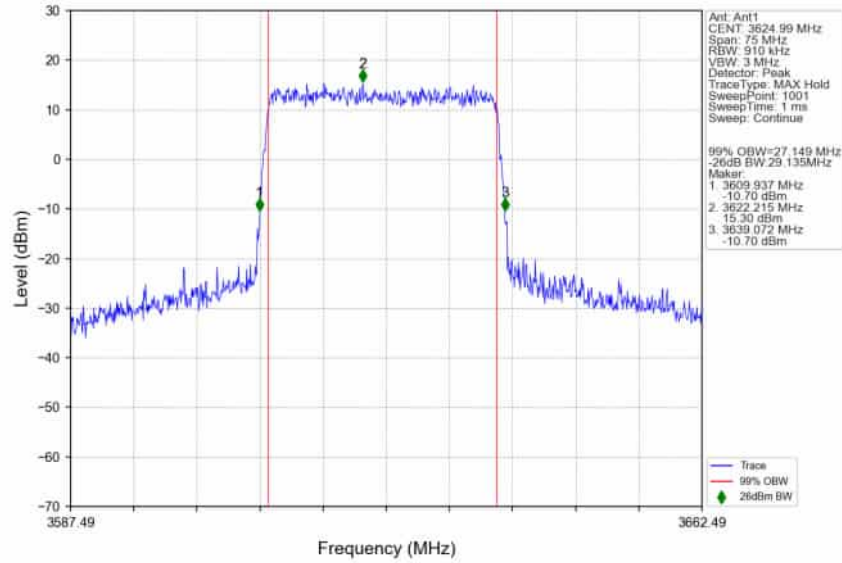
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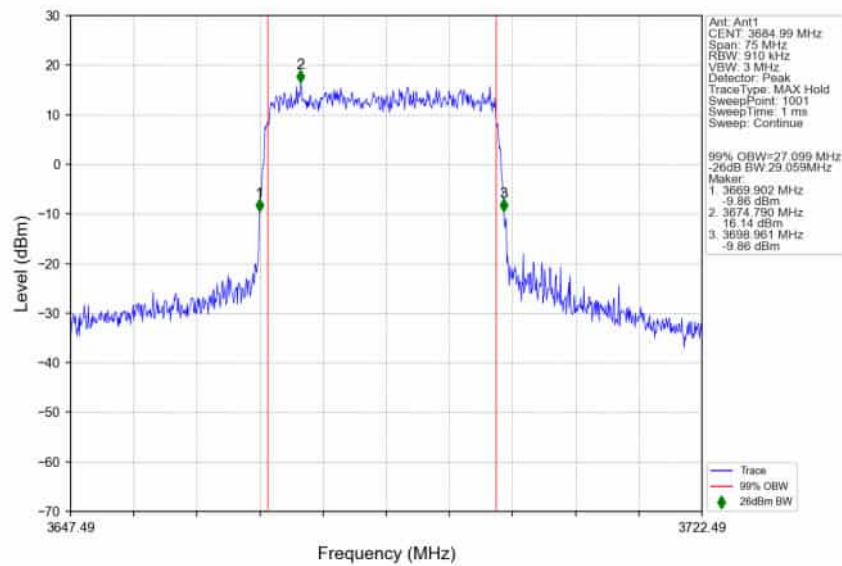
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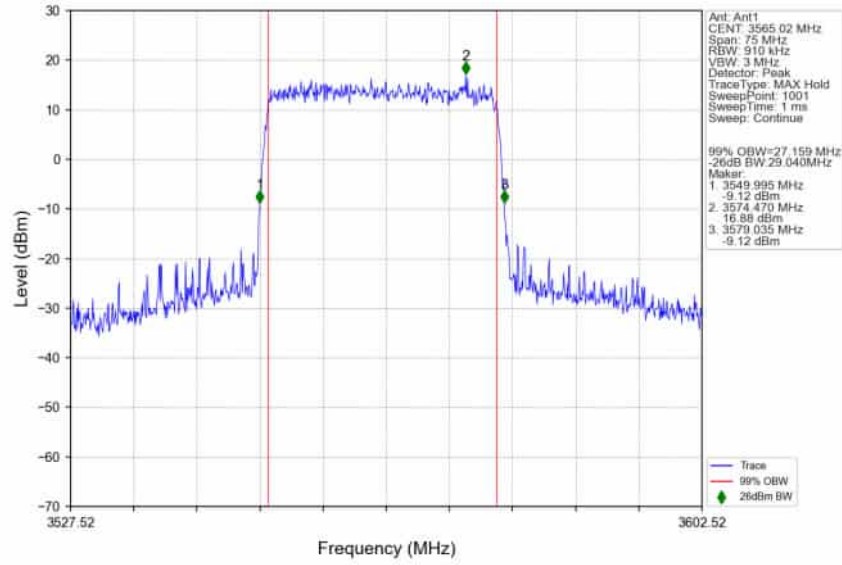
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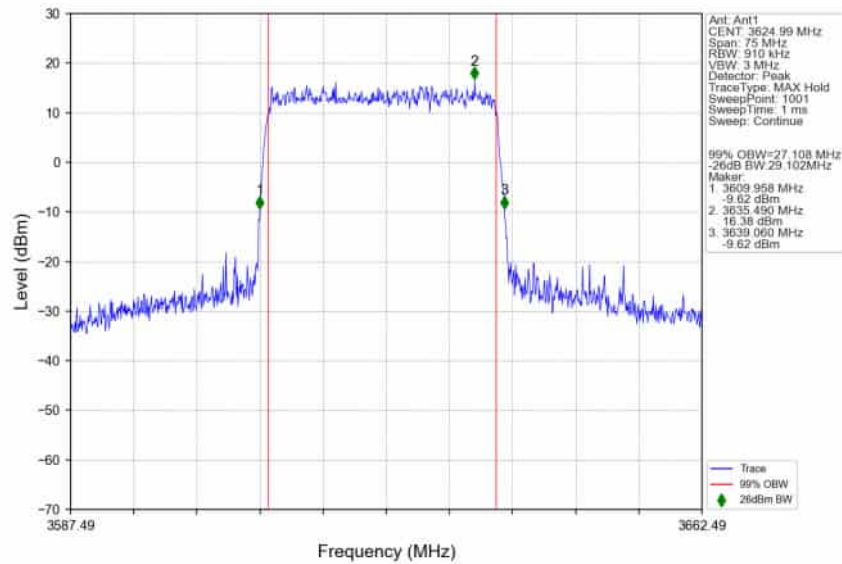
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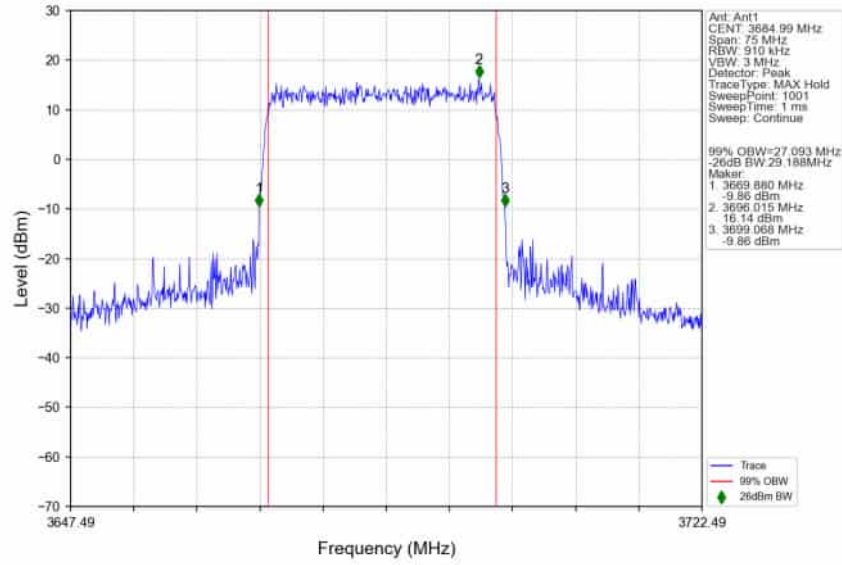
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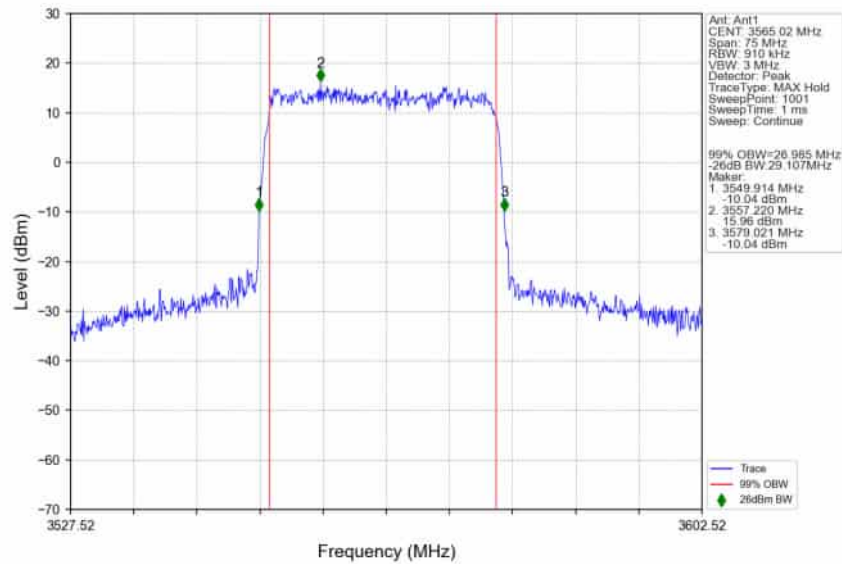
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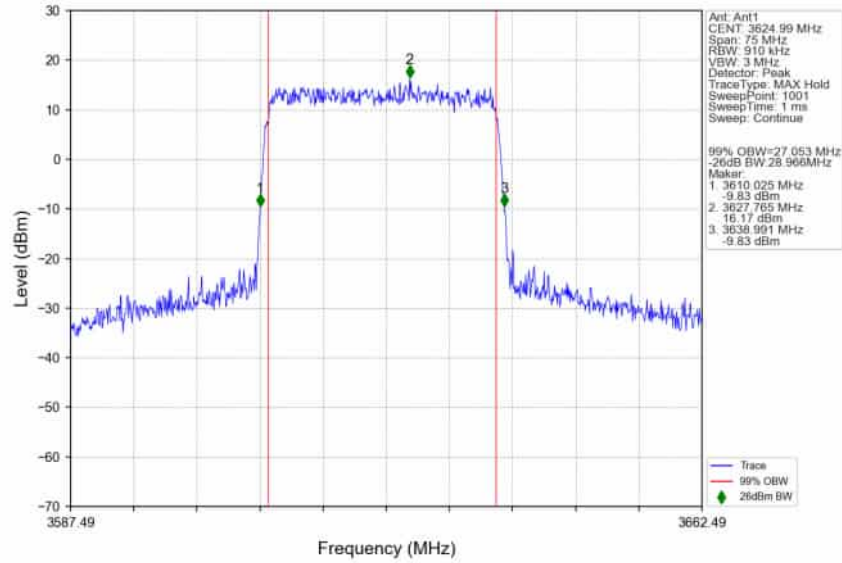
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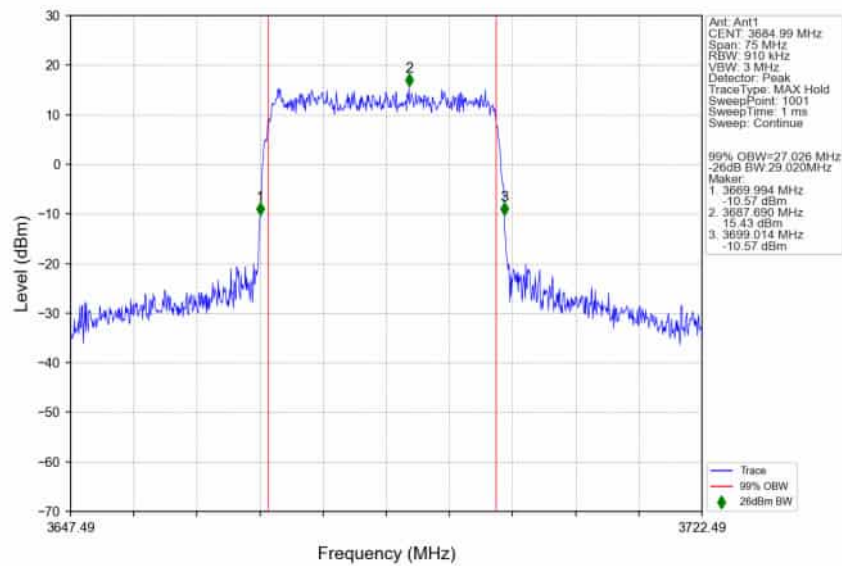
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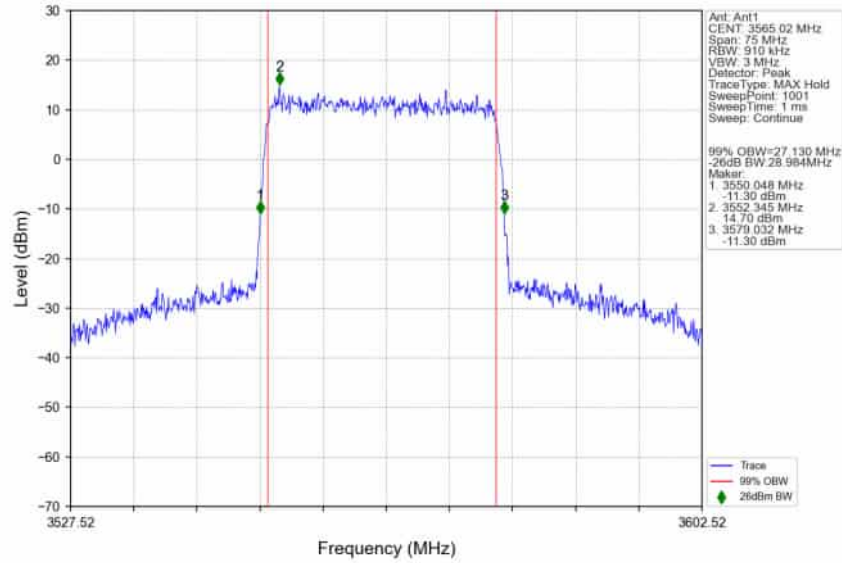
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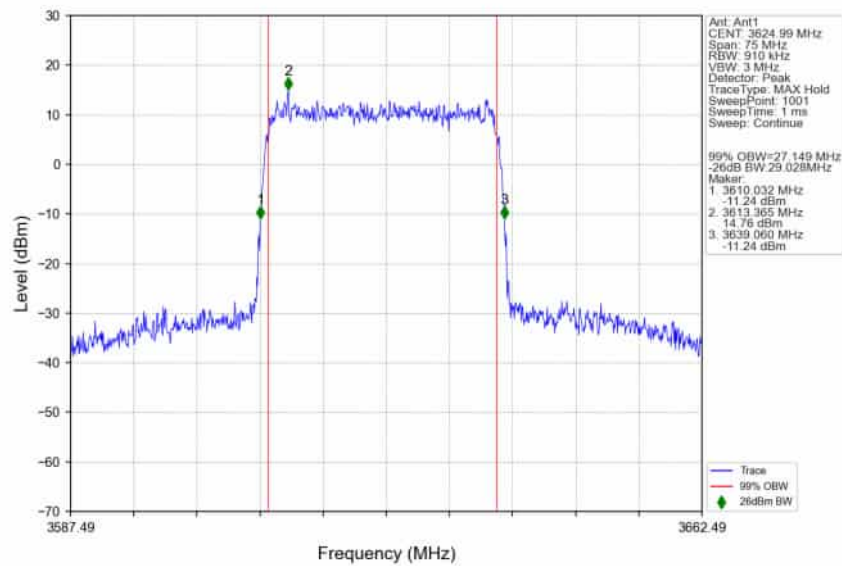
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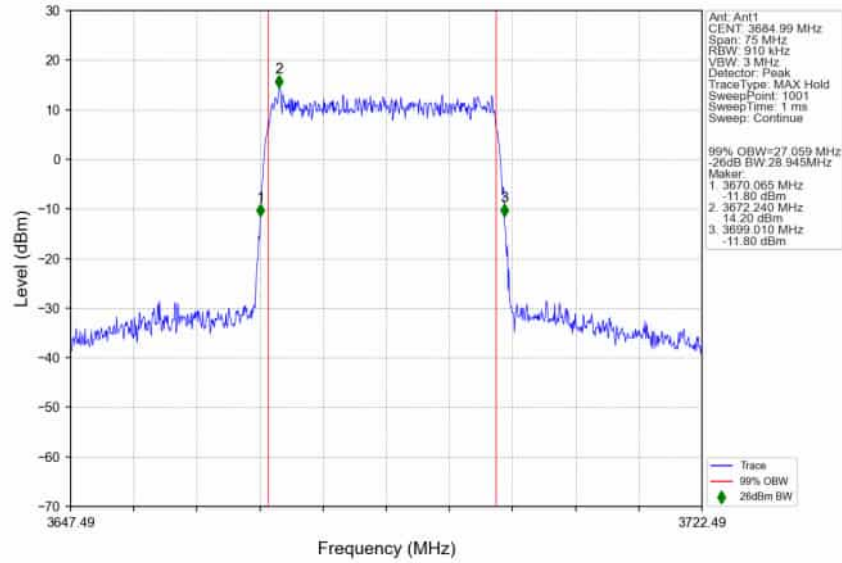
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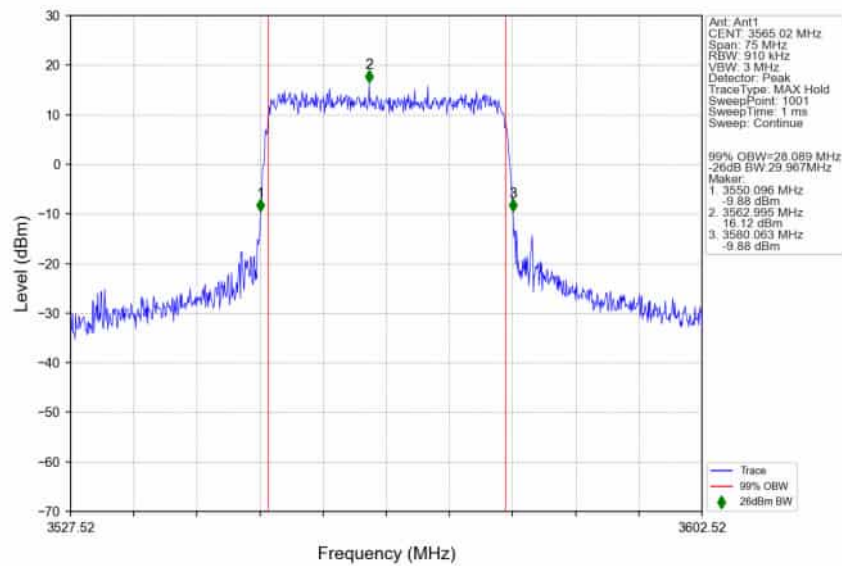
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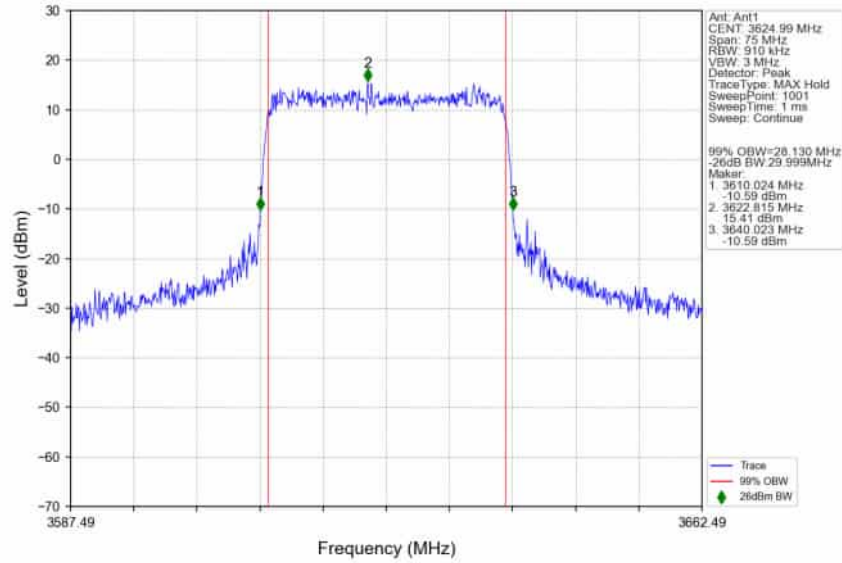
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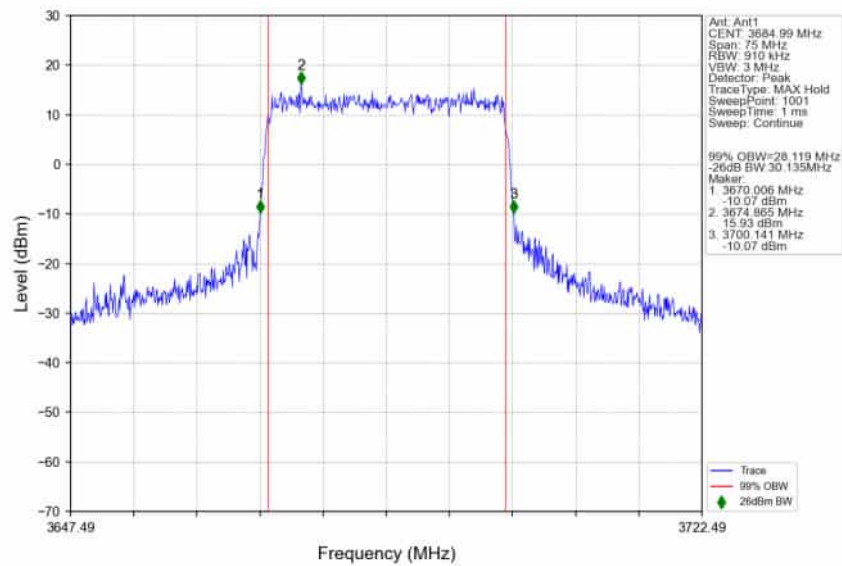
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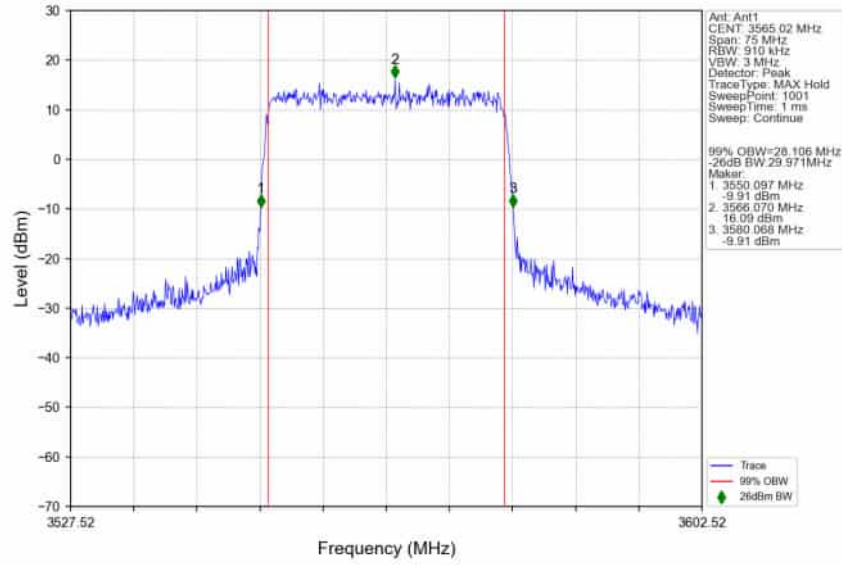
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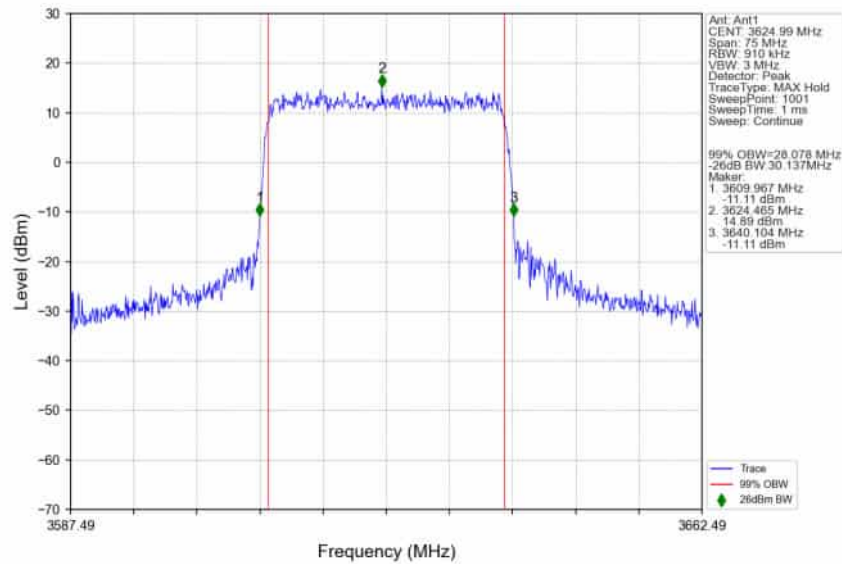
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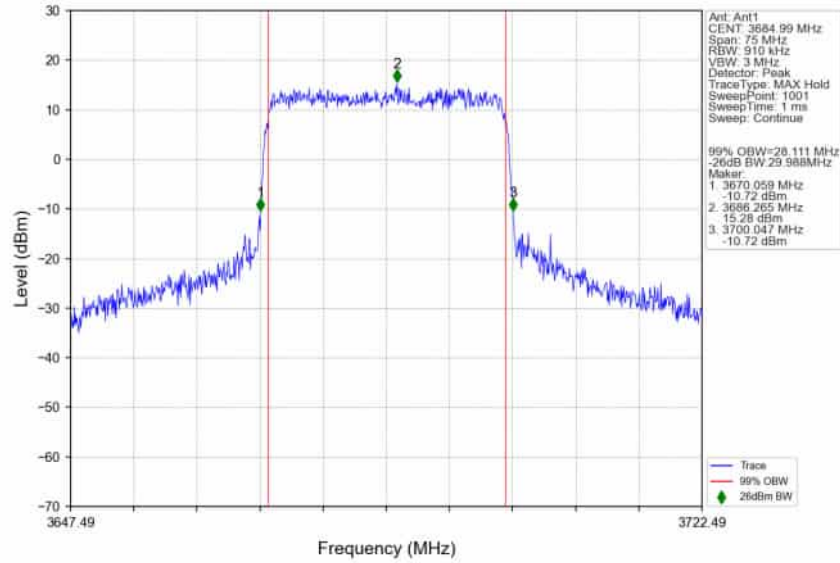
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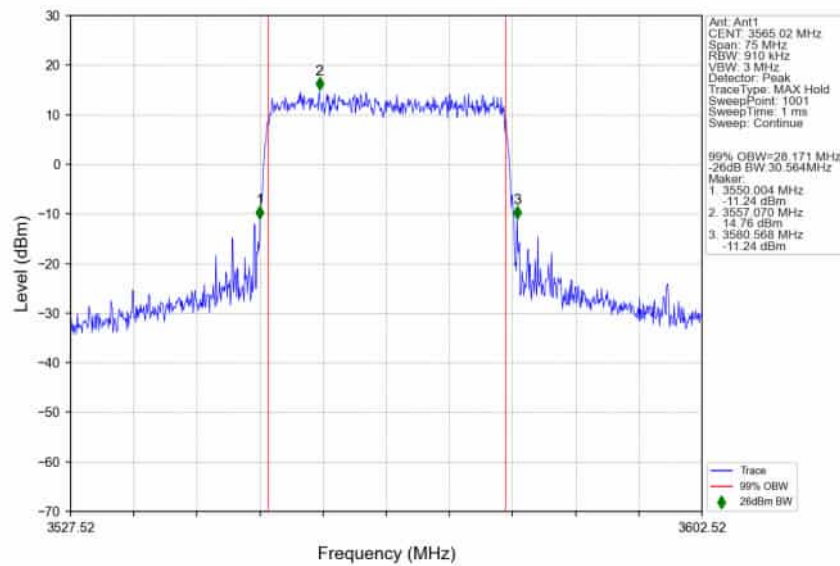
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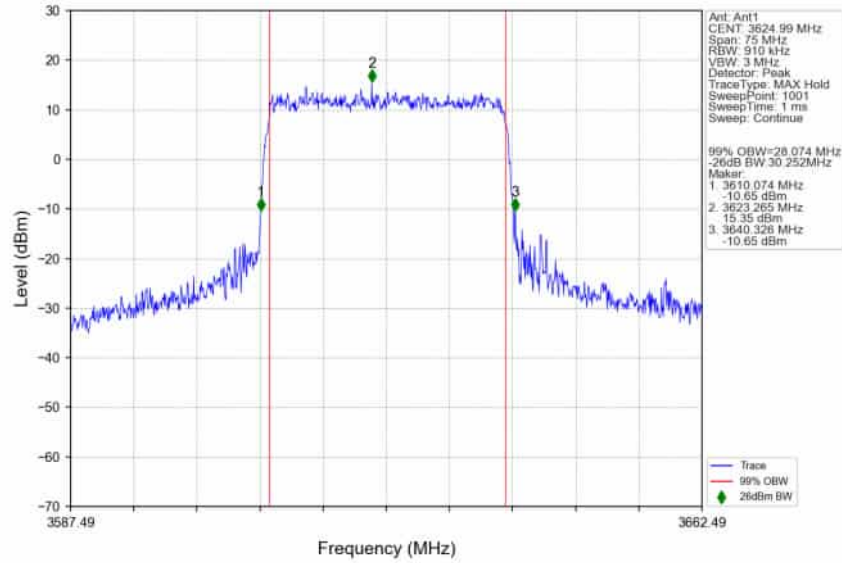
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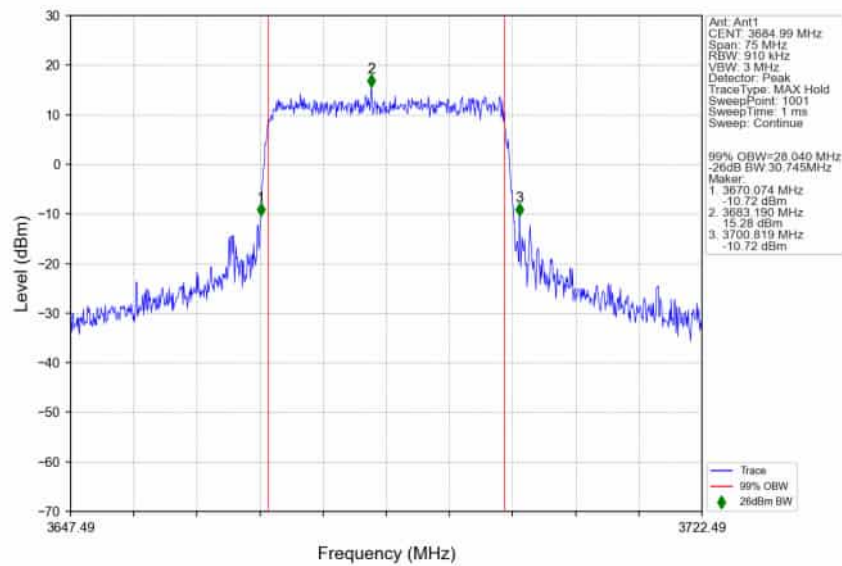
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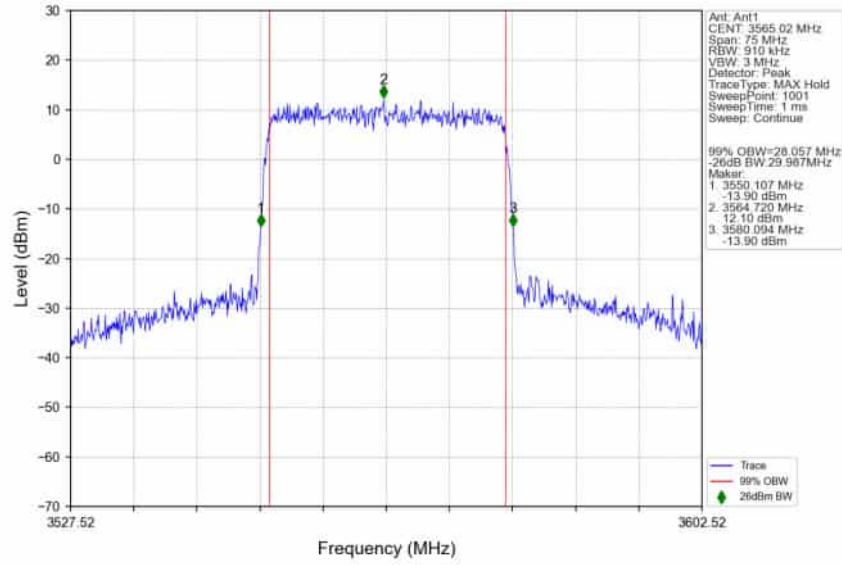
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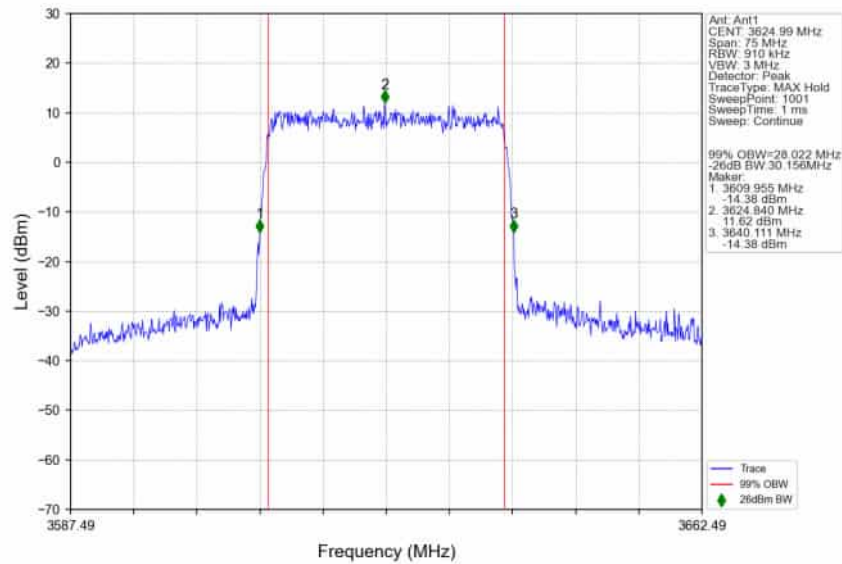
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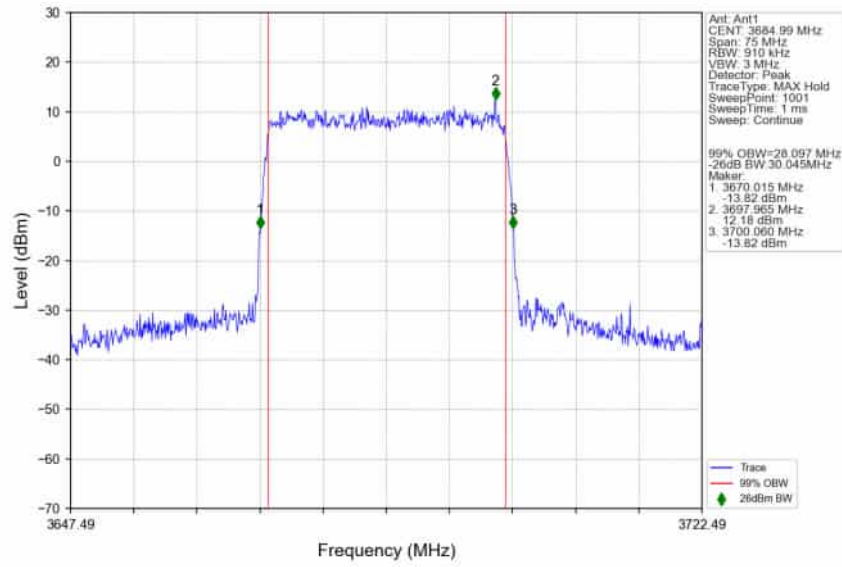
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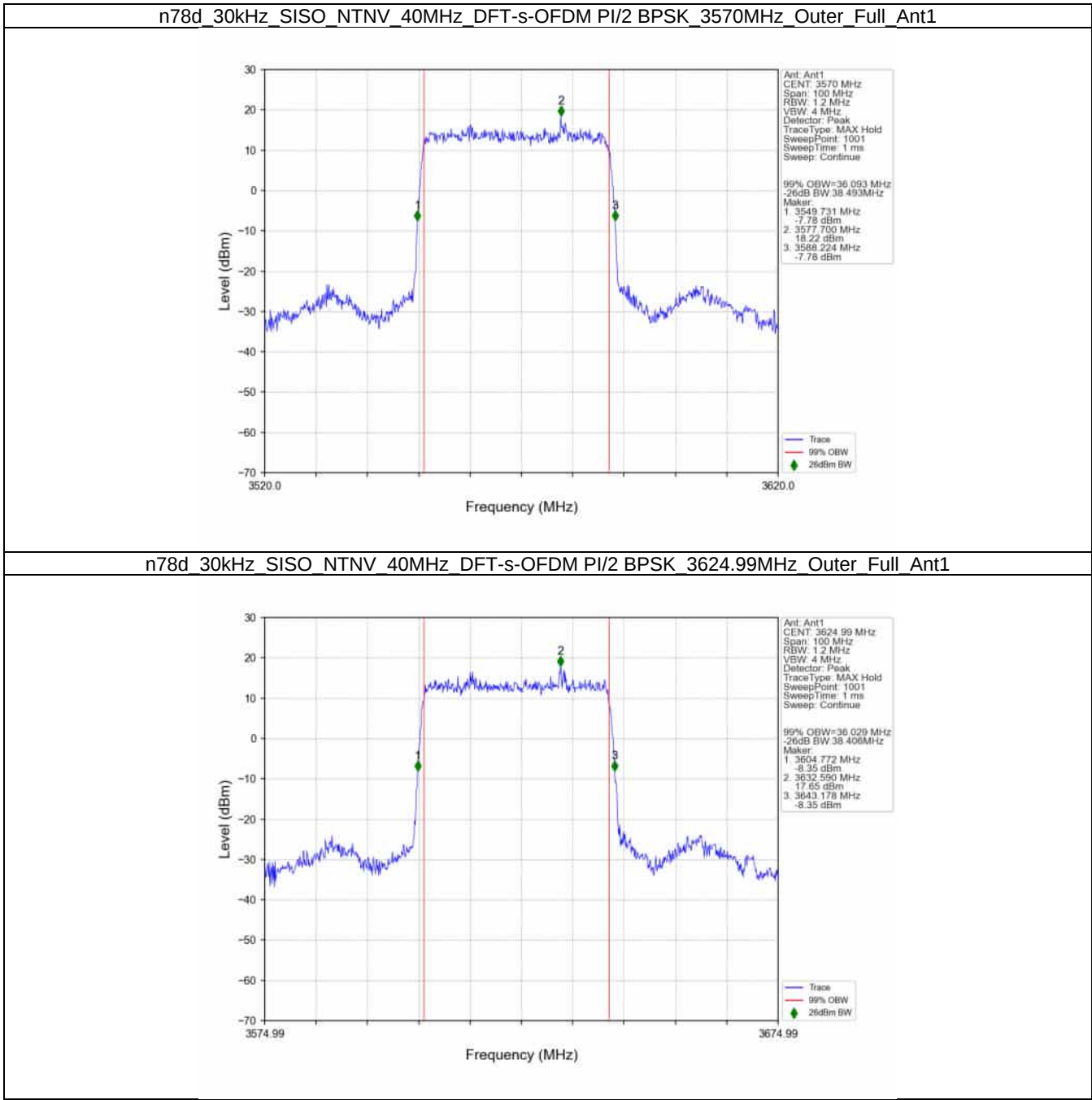
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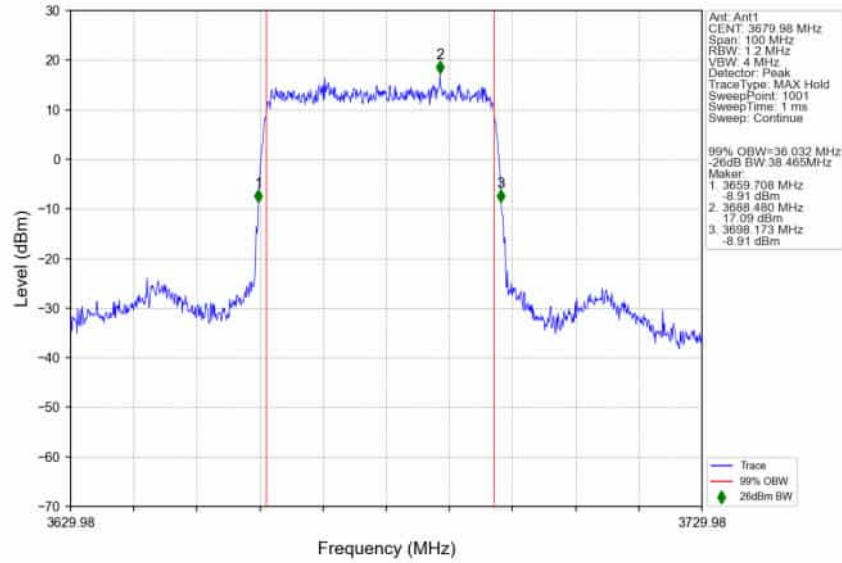
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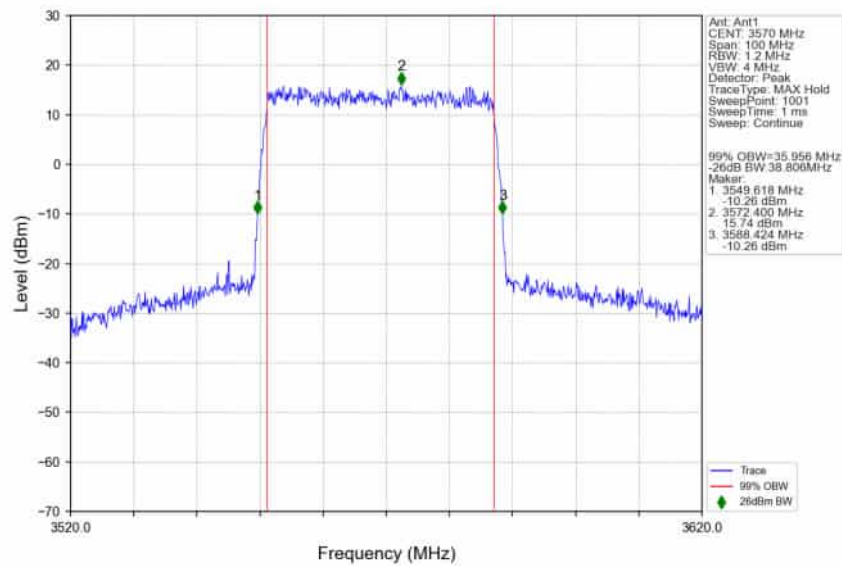
4.2.3 30k_SISO_40MHz_NTNV



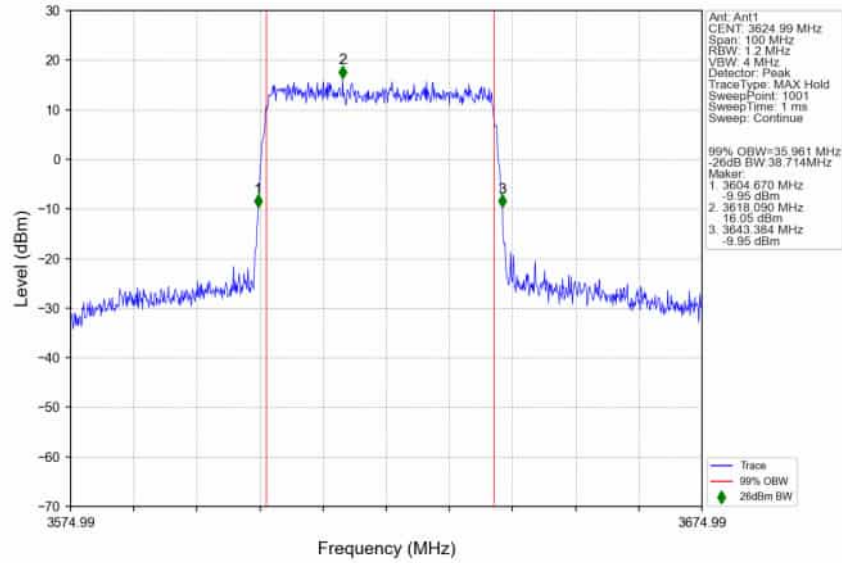
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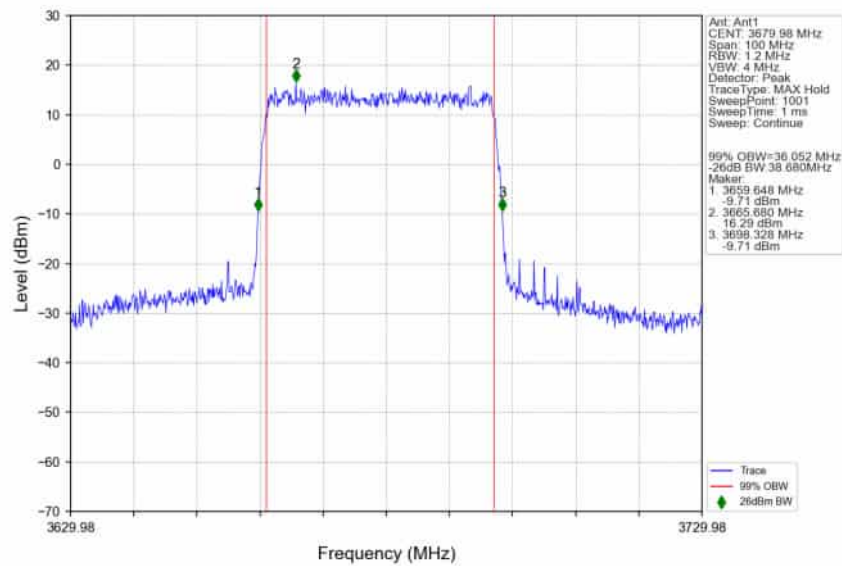
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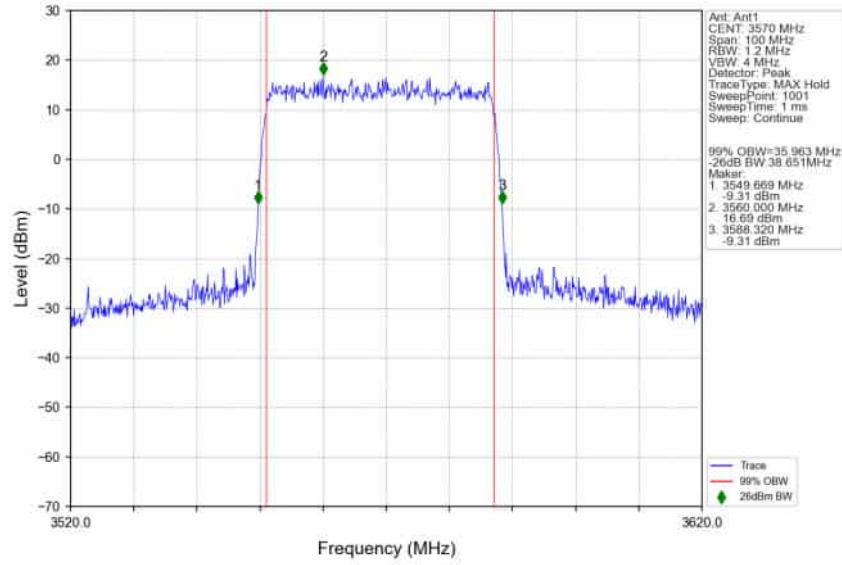
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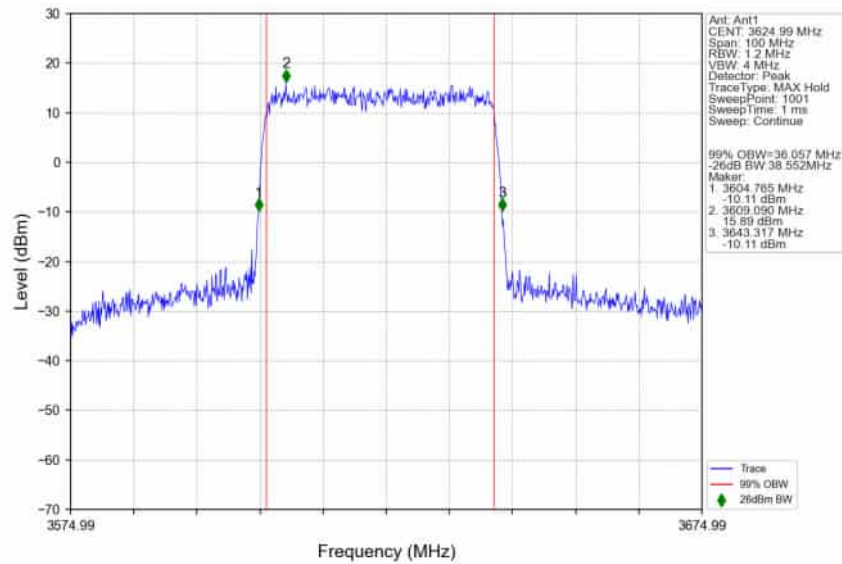
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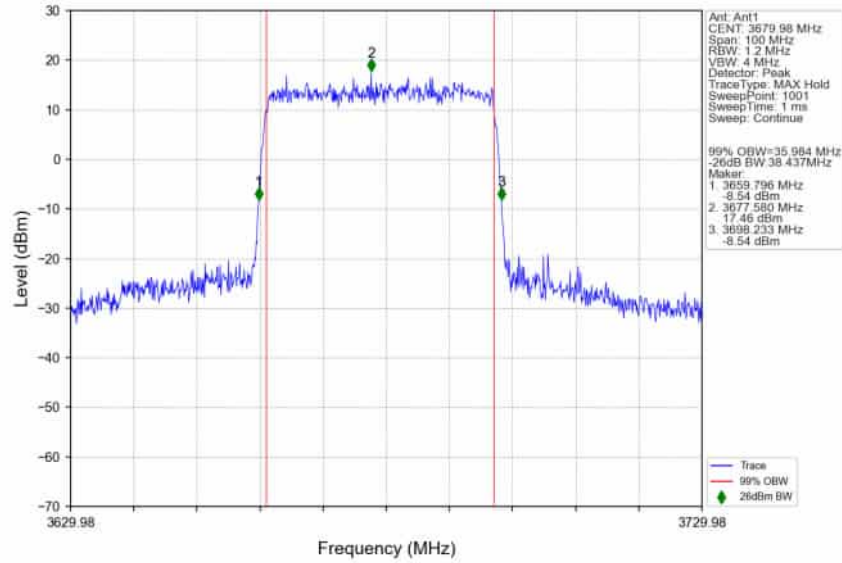
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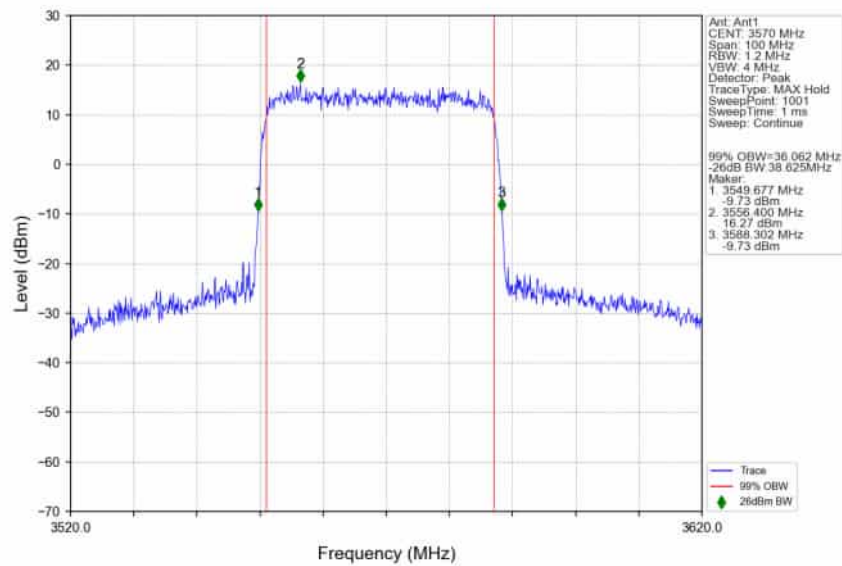
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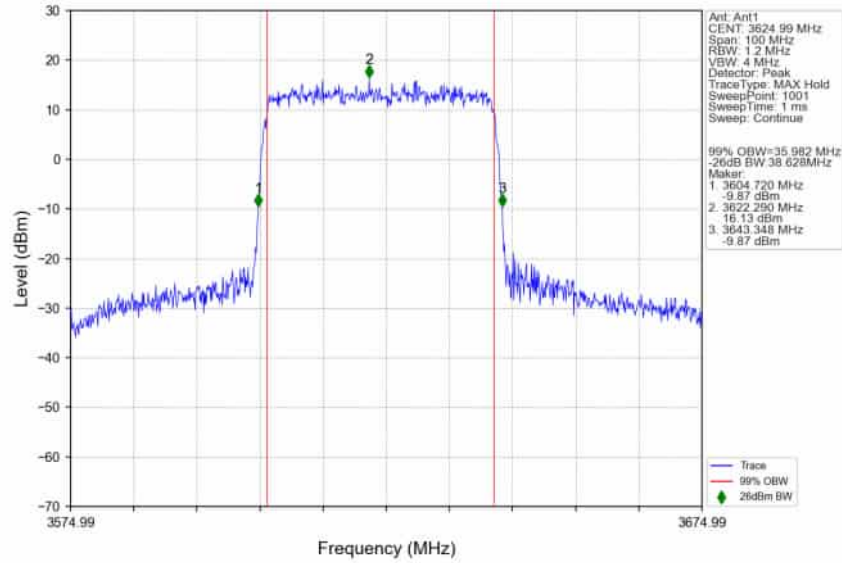
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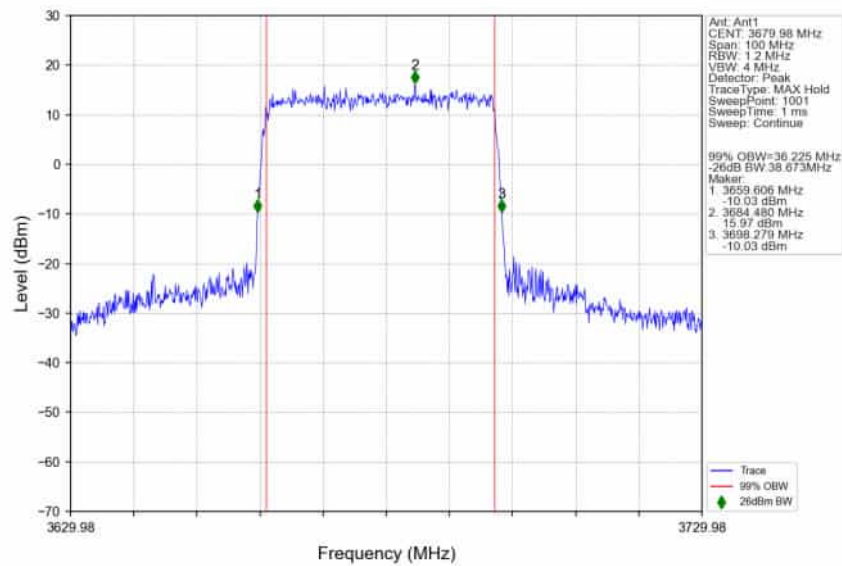
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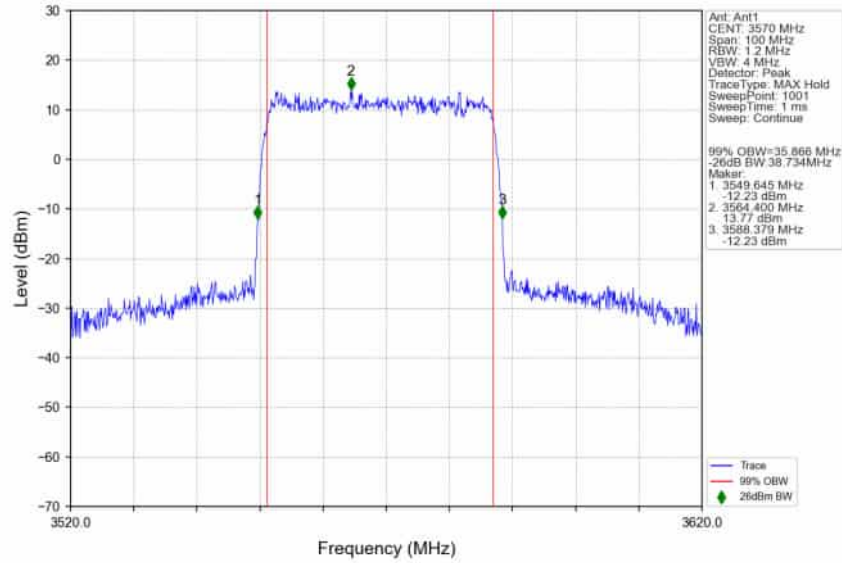
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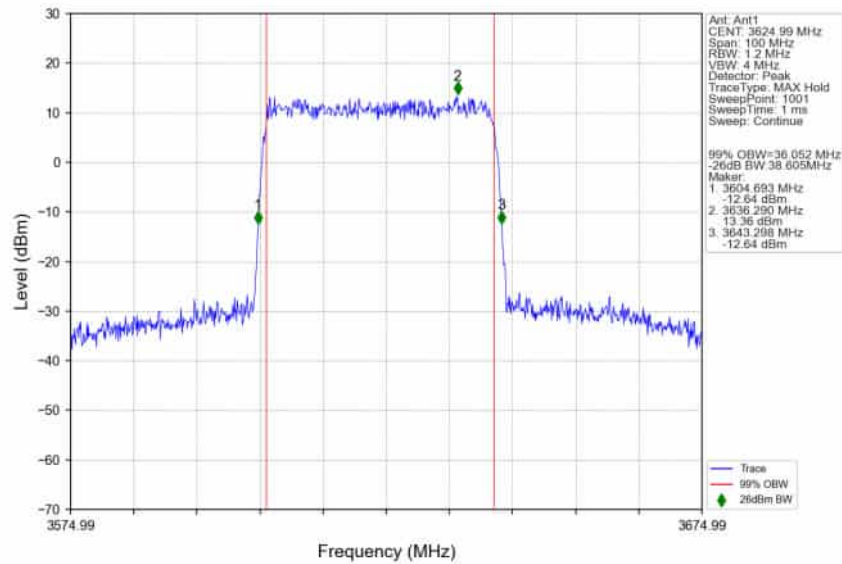
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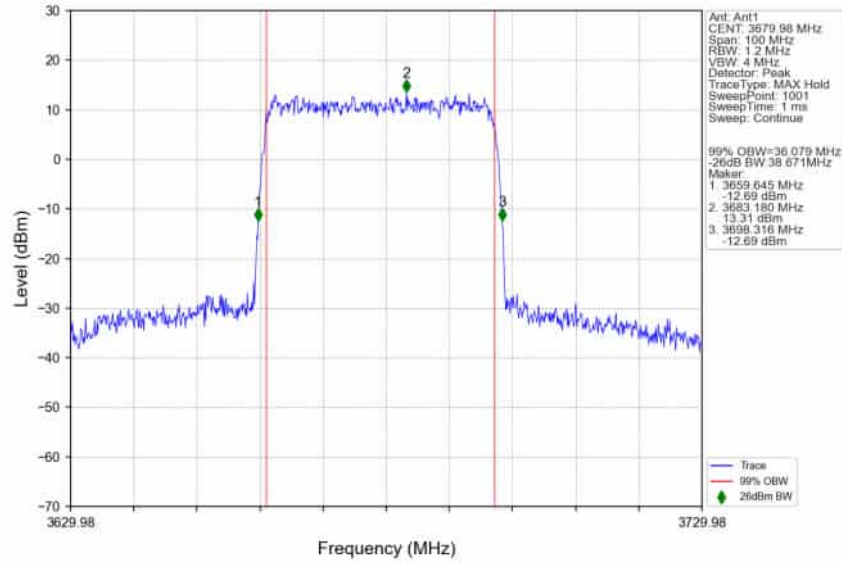
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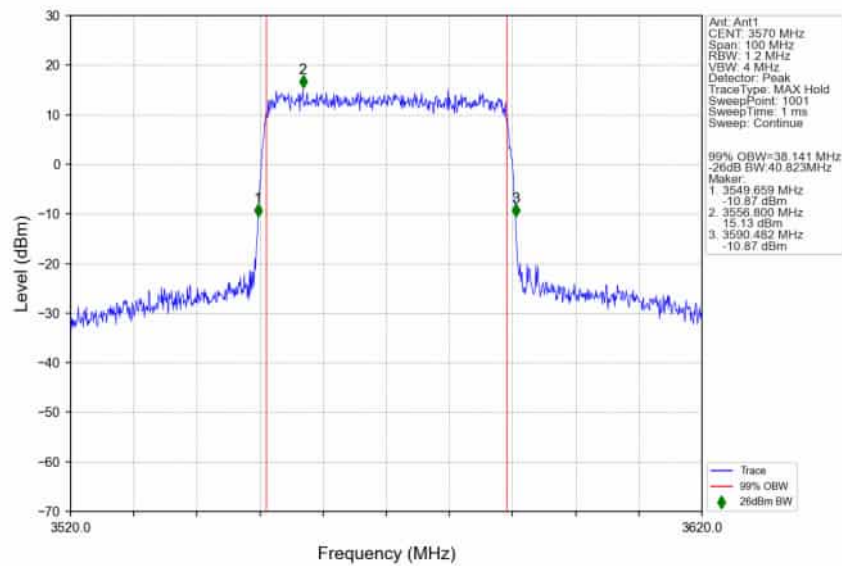
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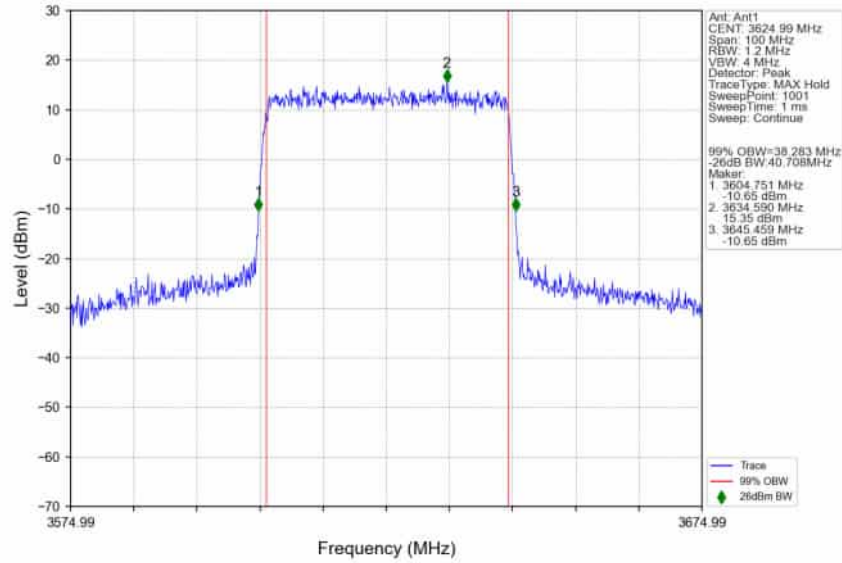
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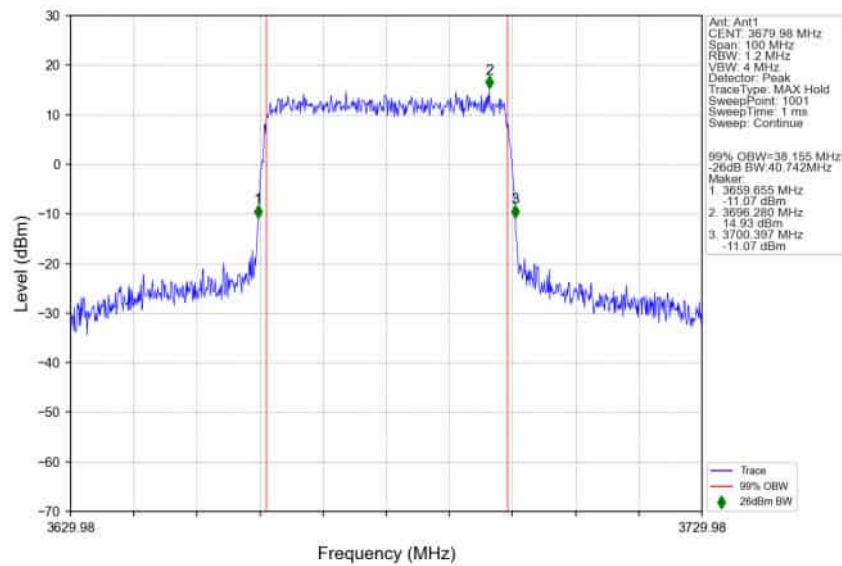
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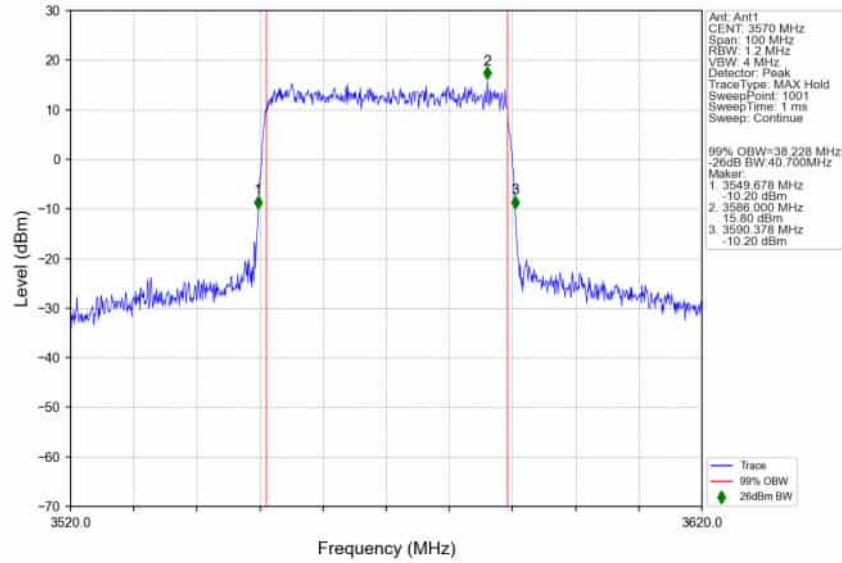
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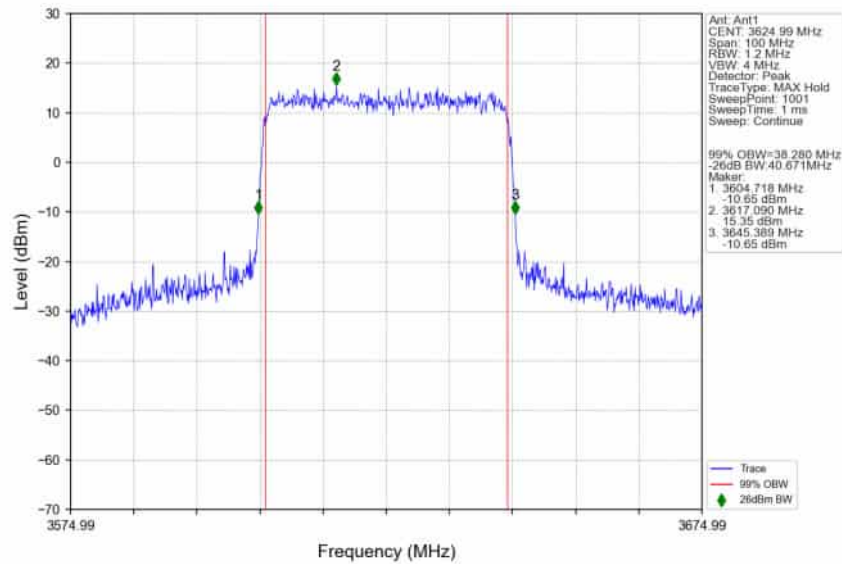
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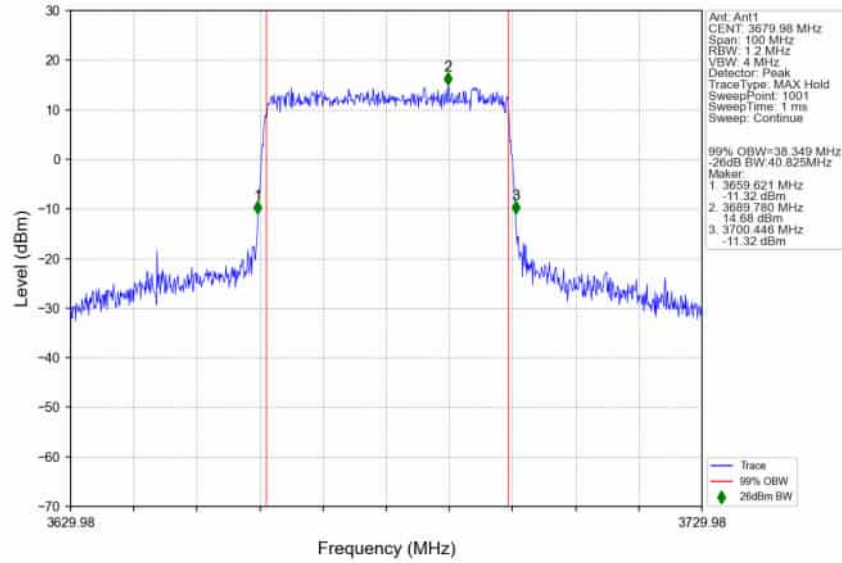
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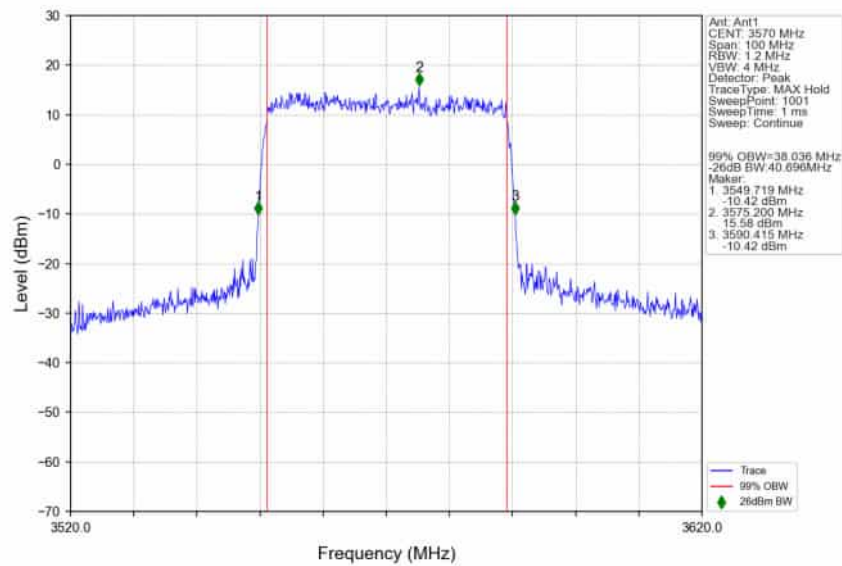
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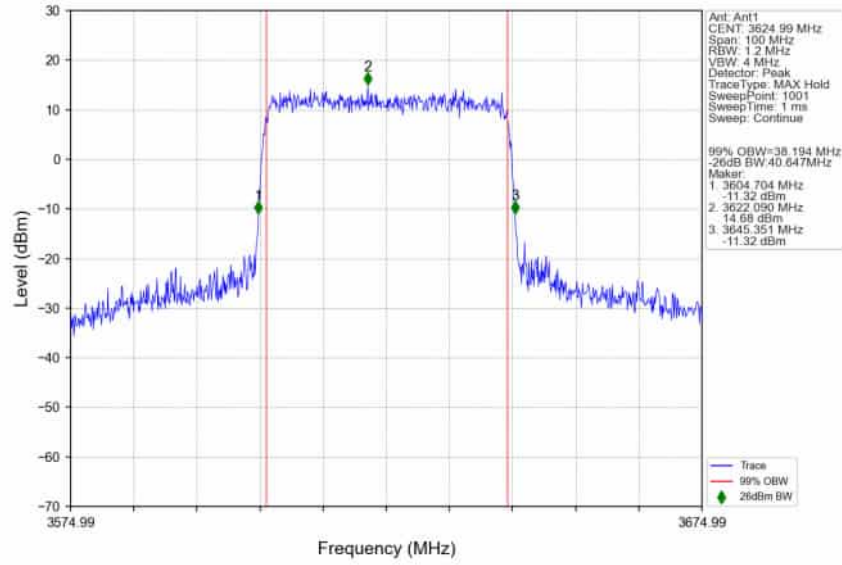
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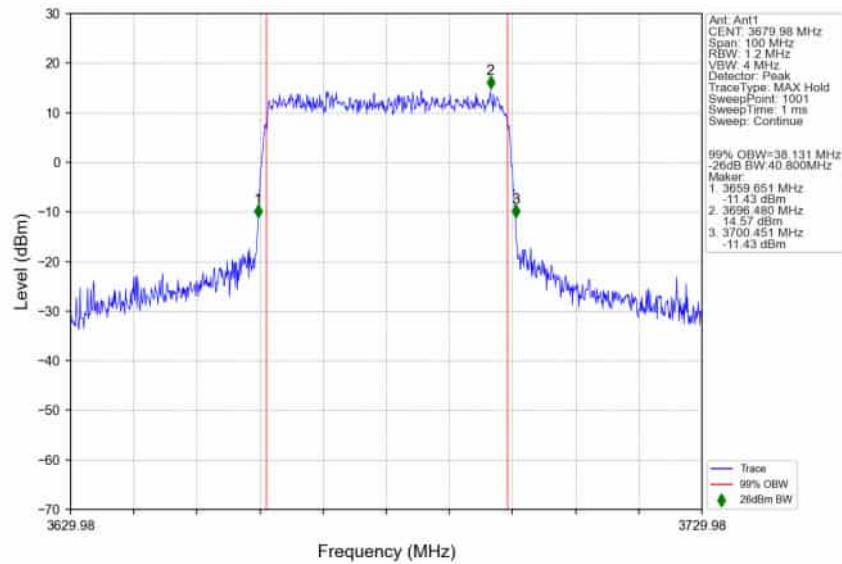
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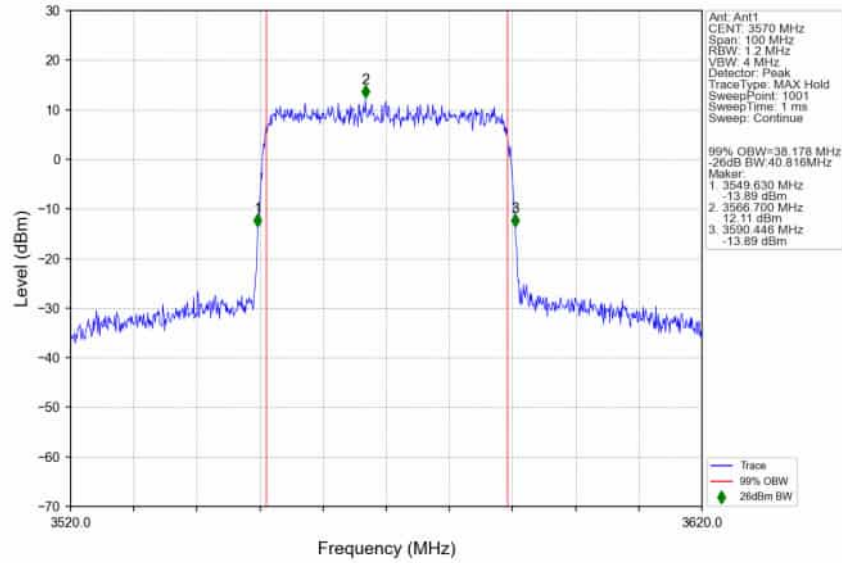
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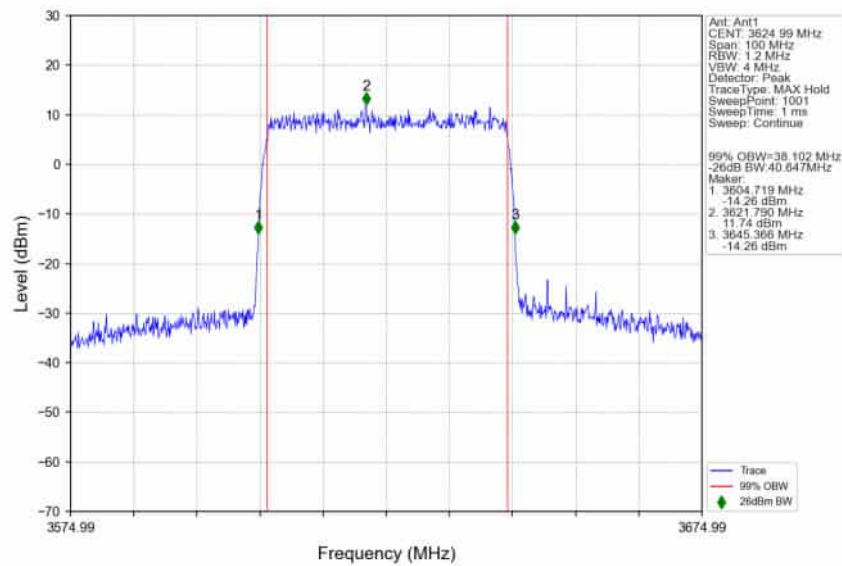
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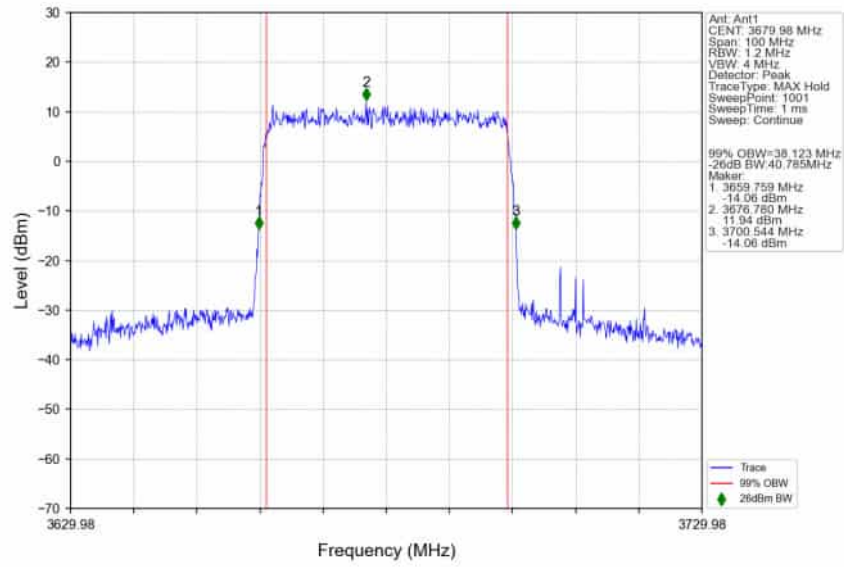
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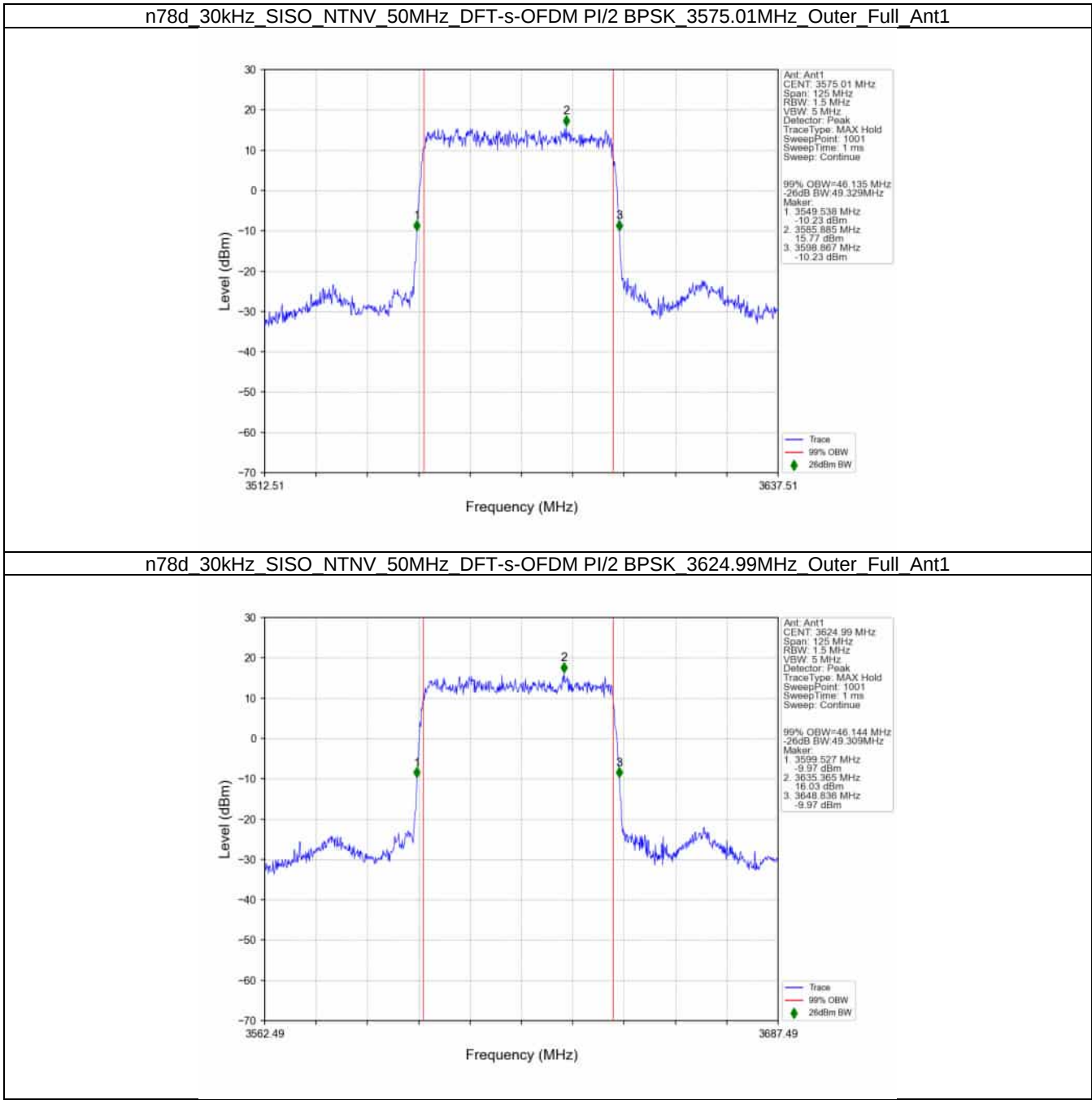
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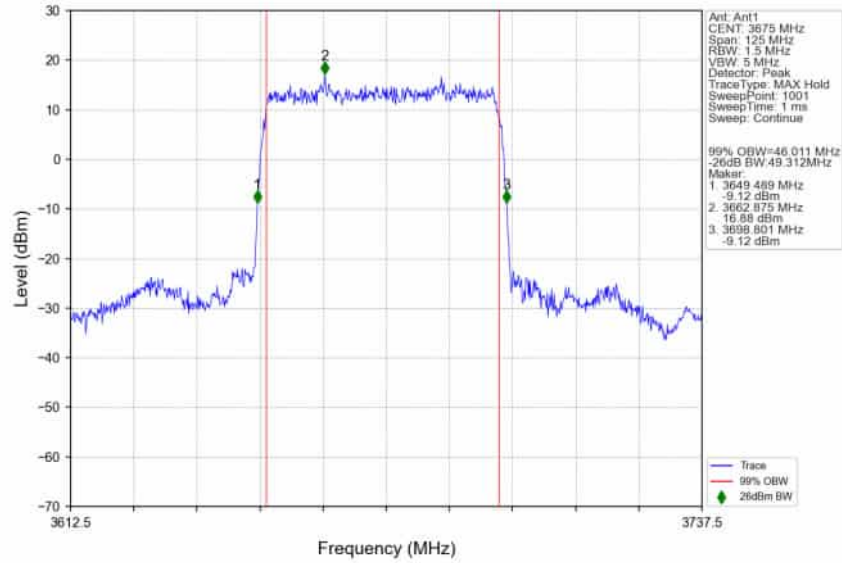
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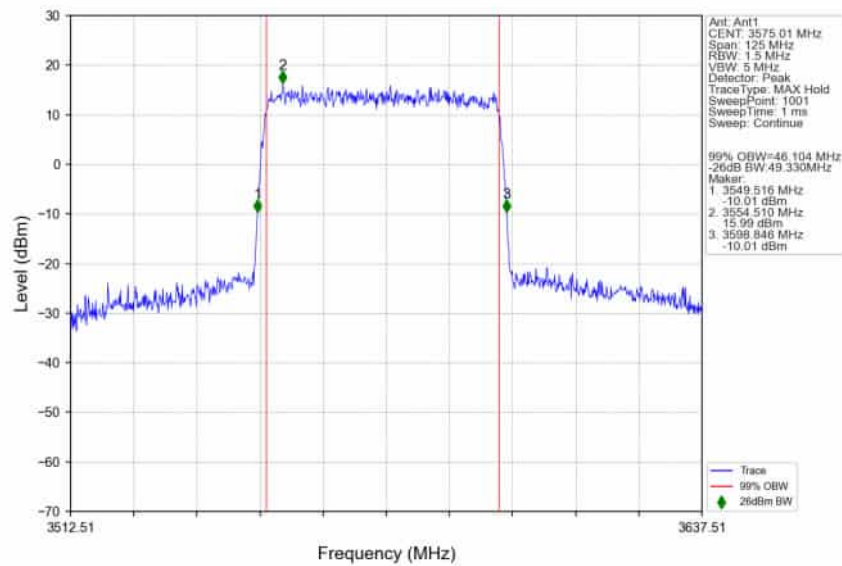
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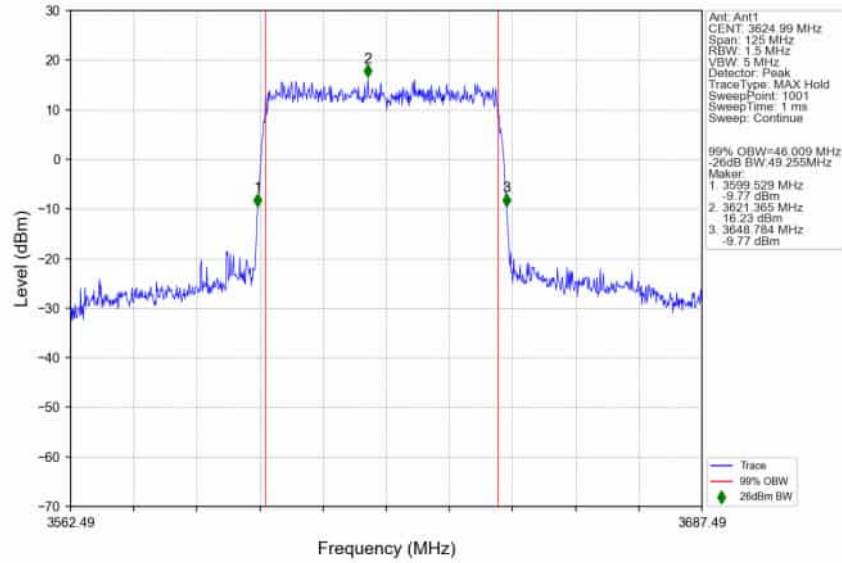
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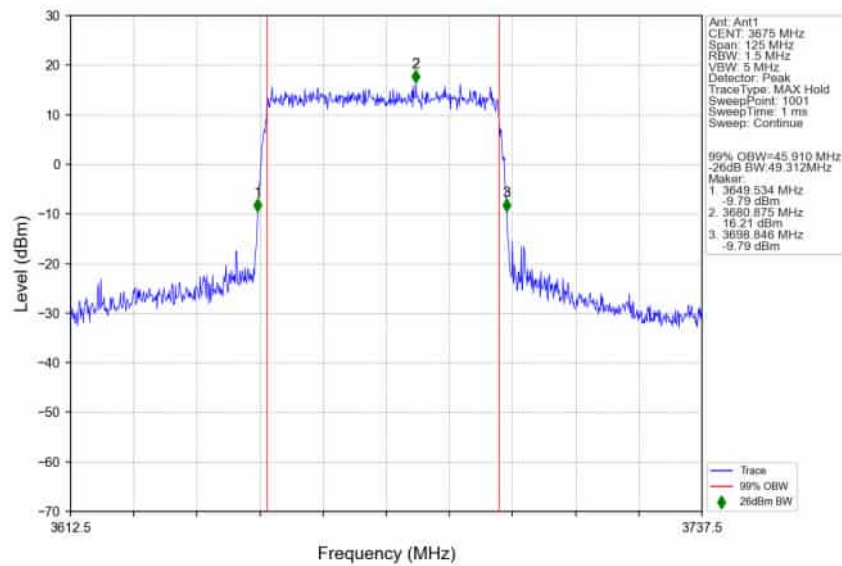
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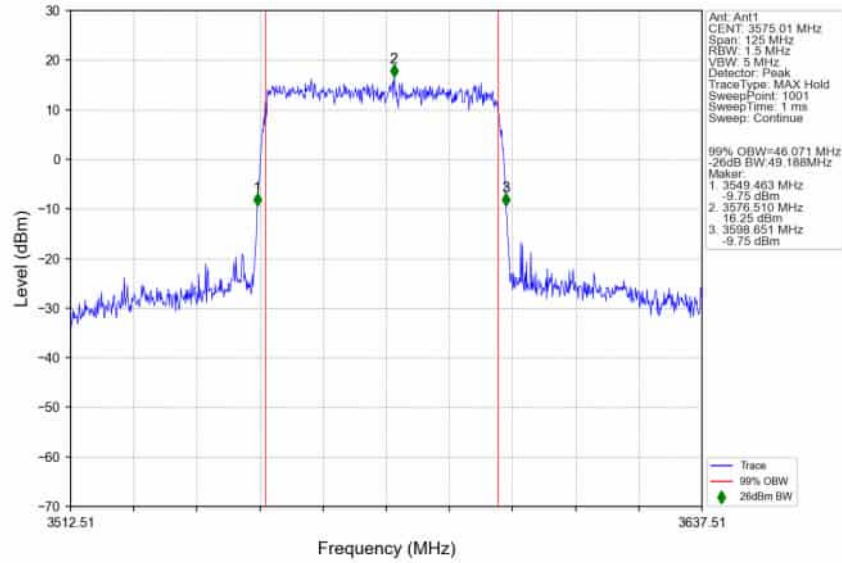
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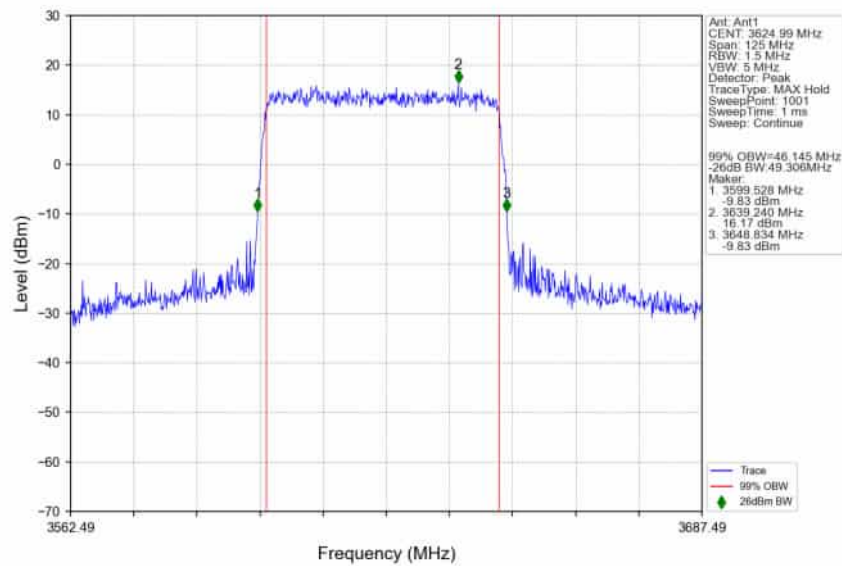
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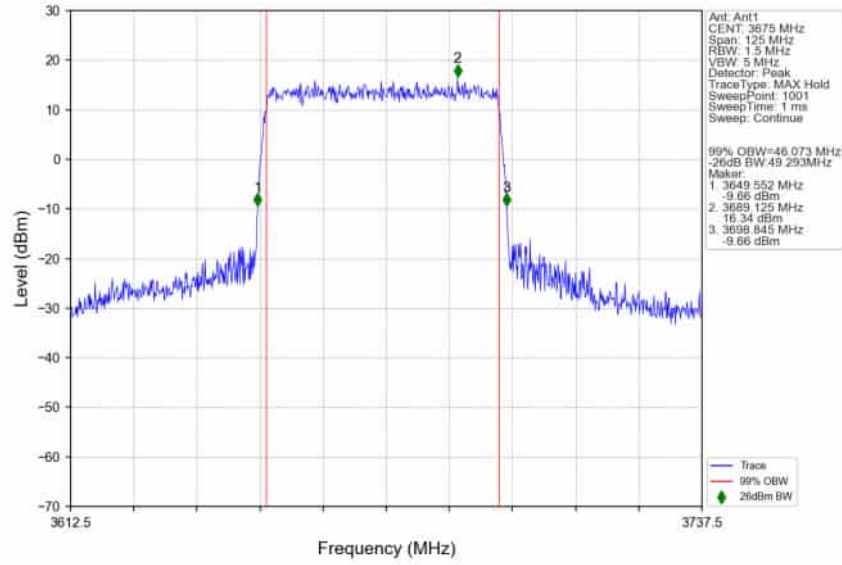
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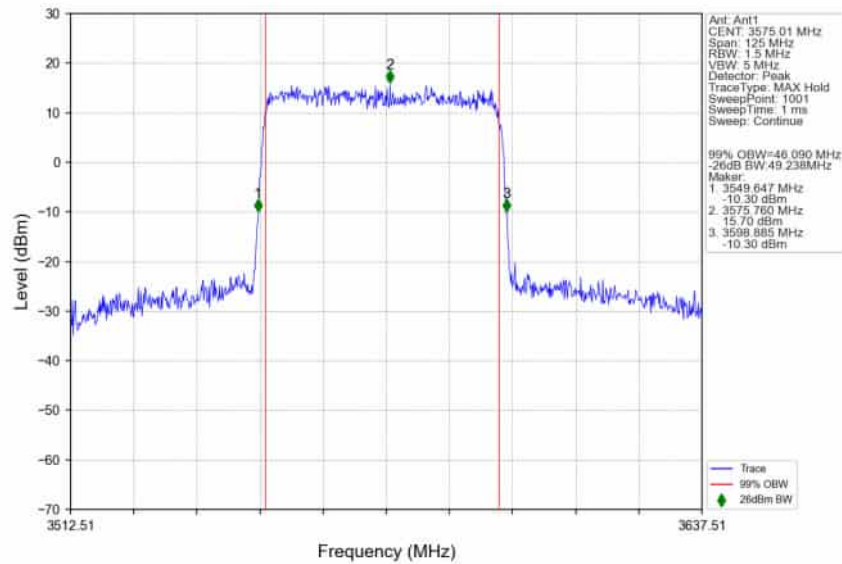
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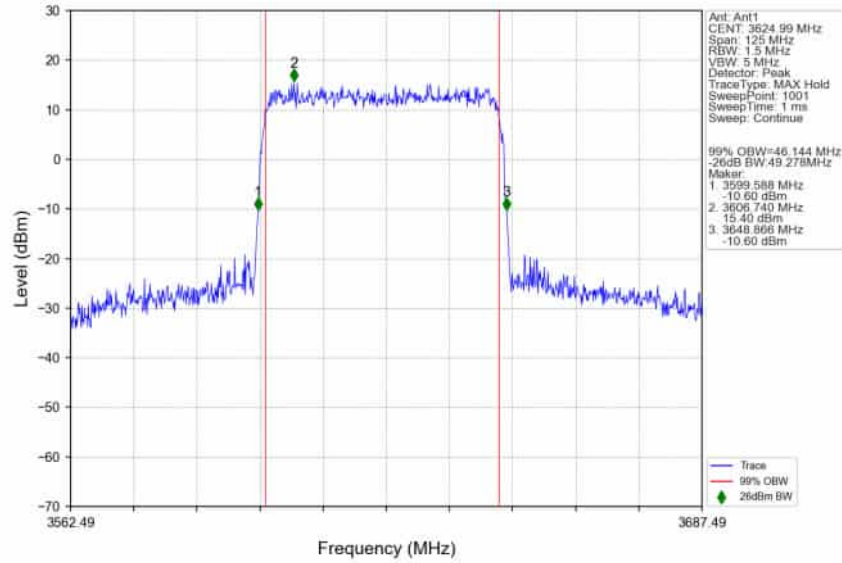
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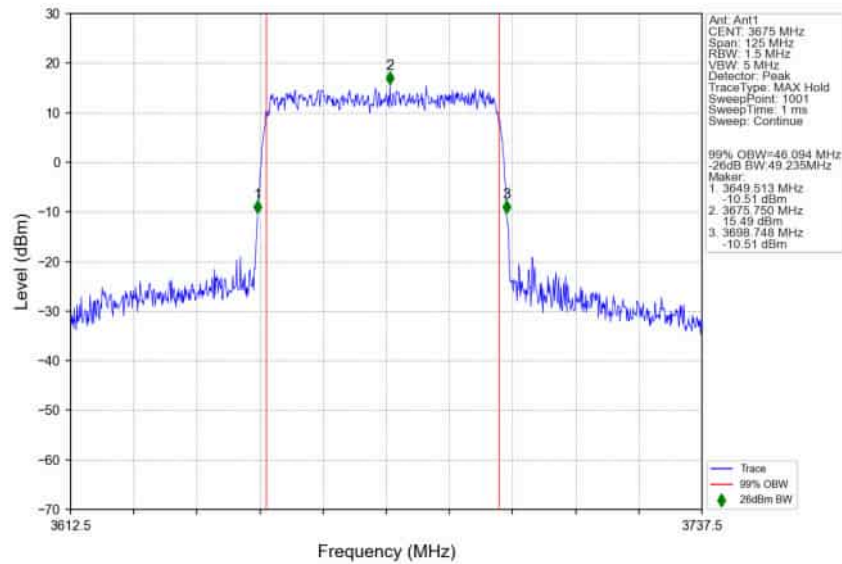
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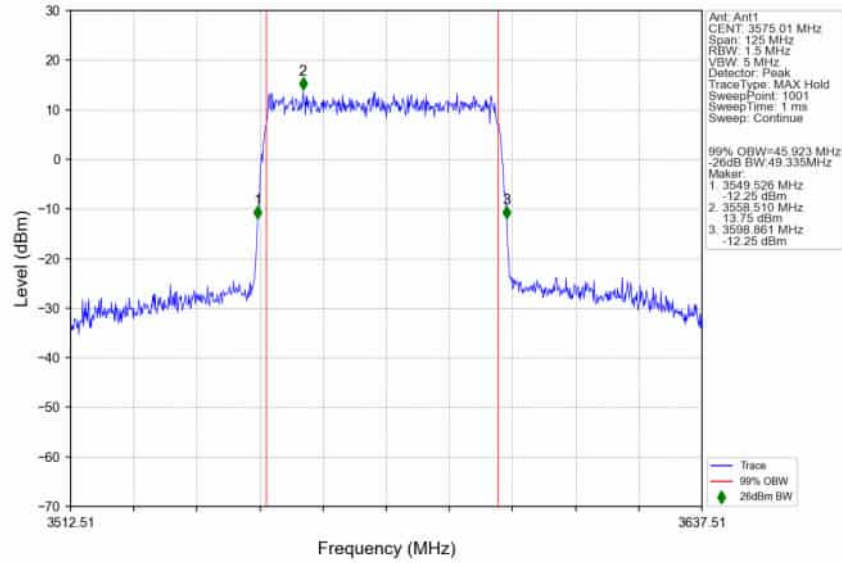
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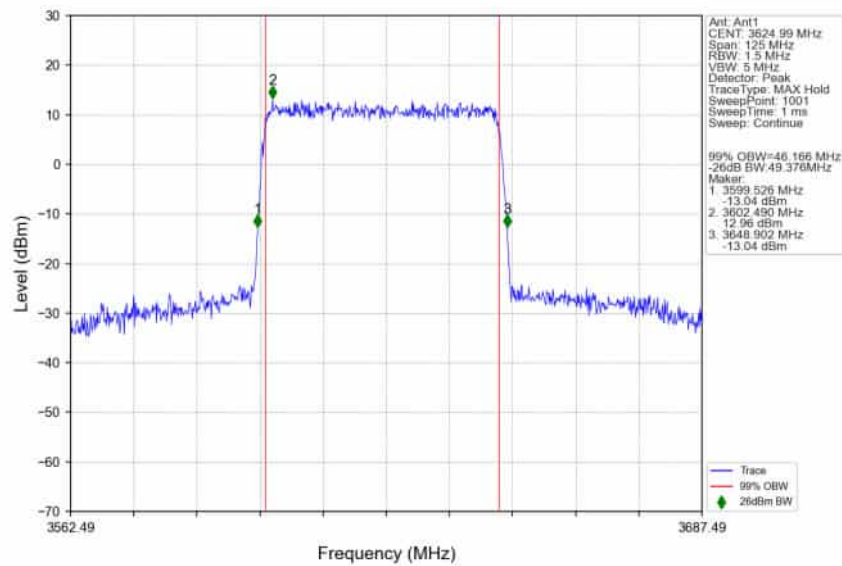
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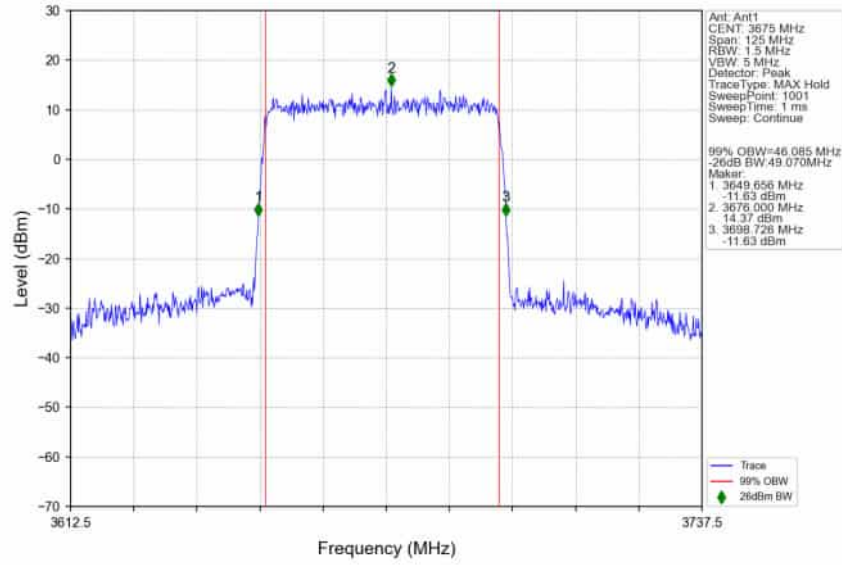
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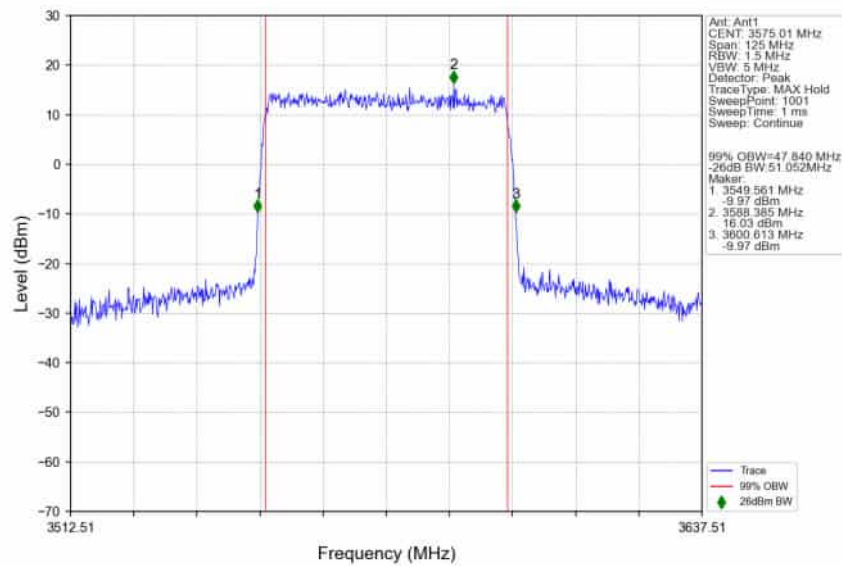
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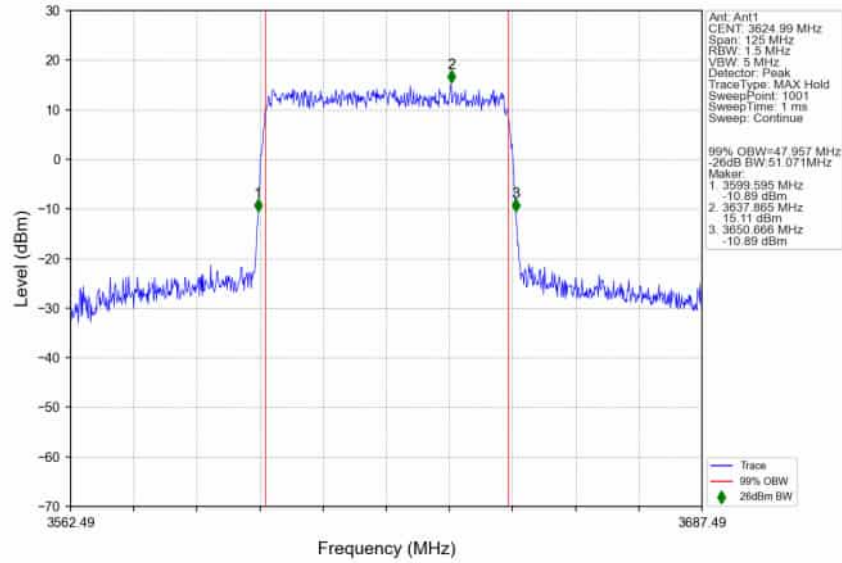
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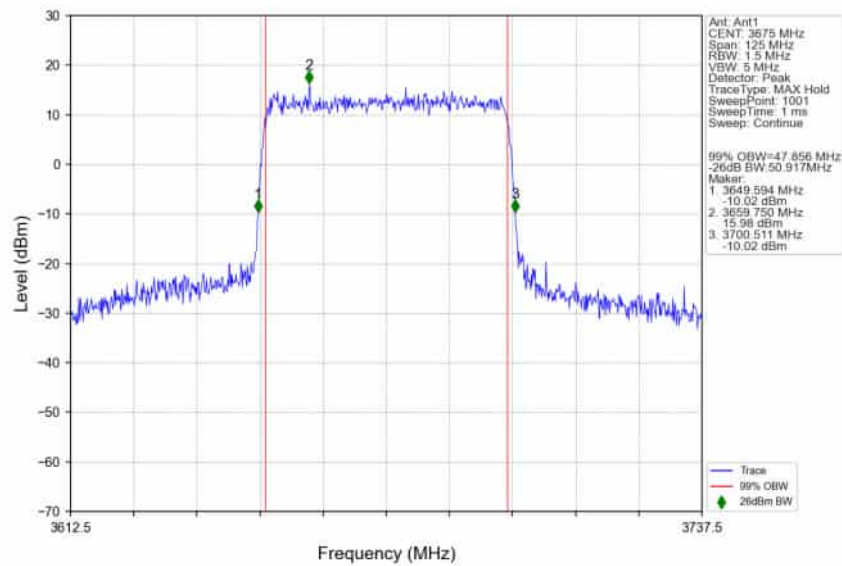
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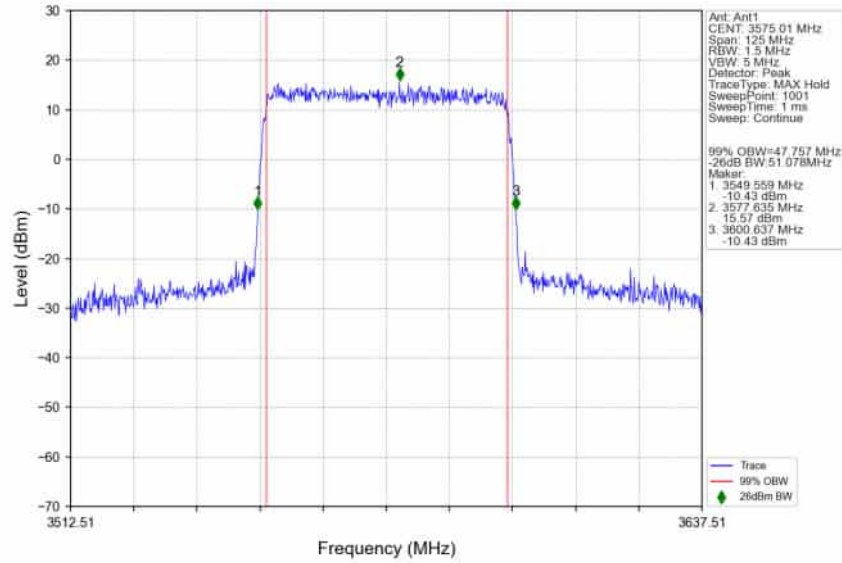
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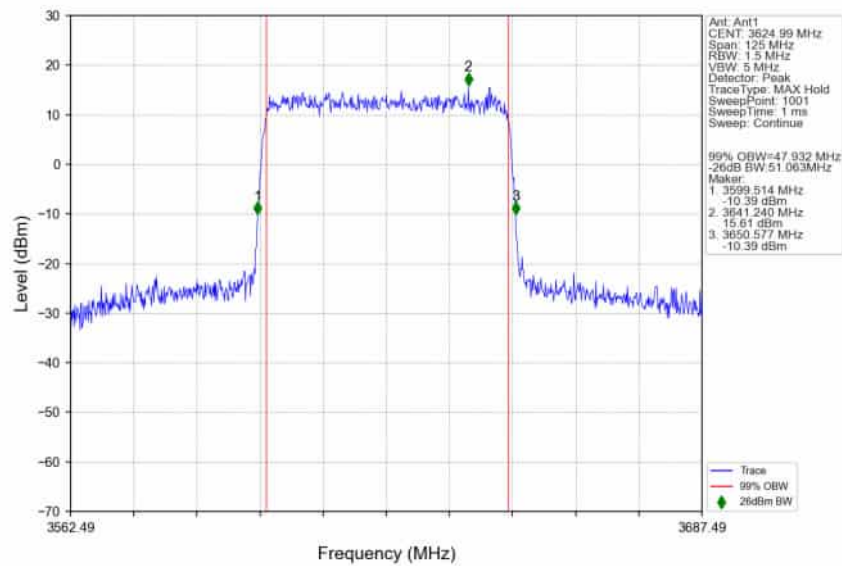
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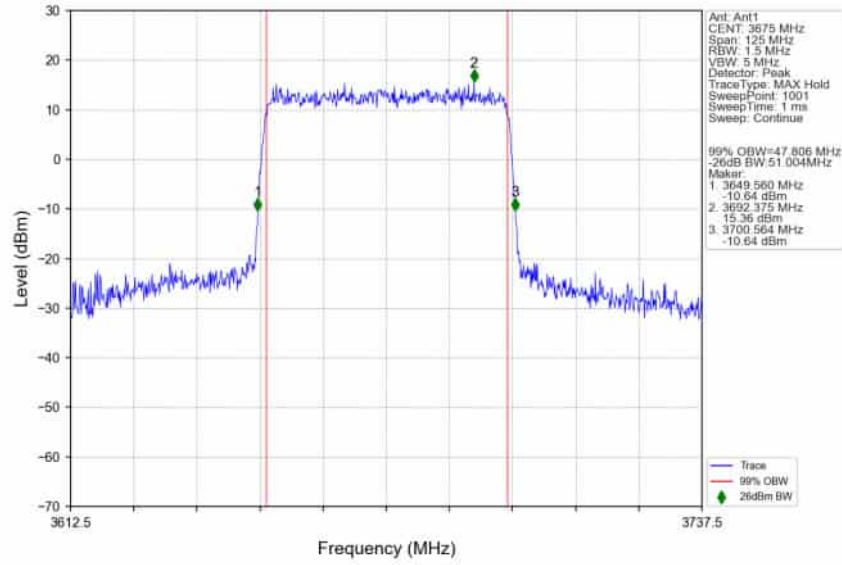
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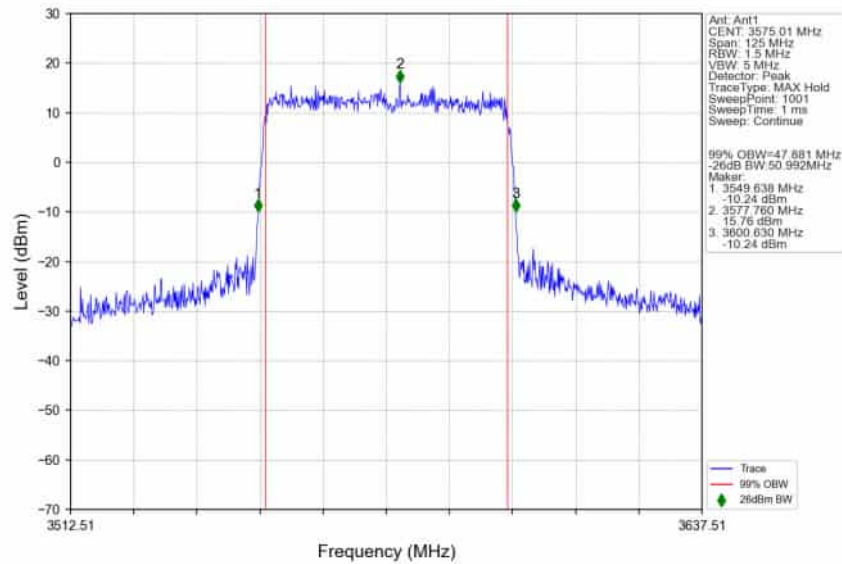
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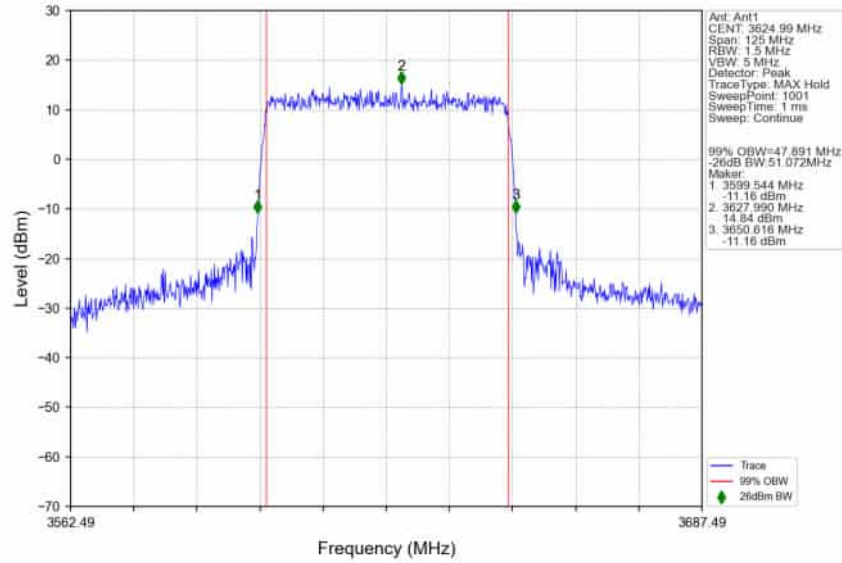
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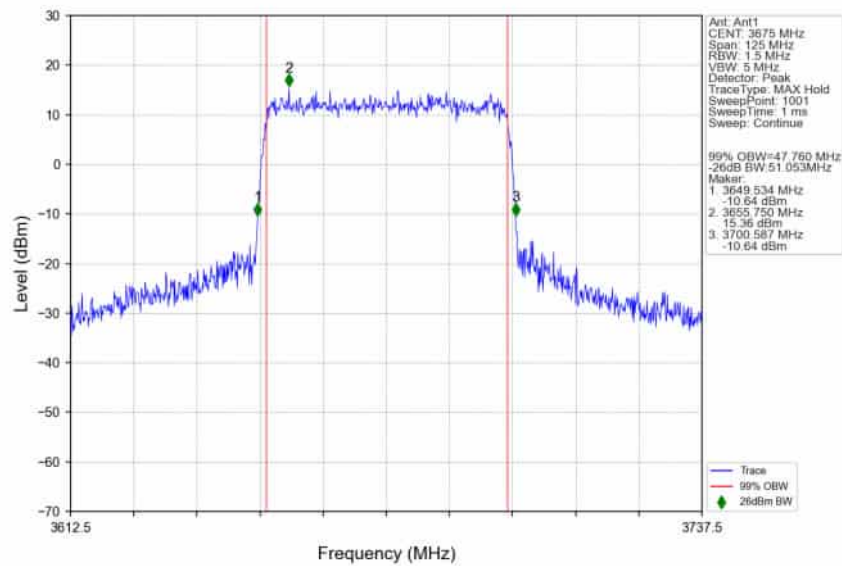
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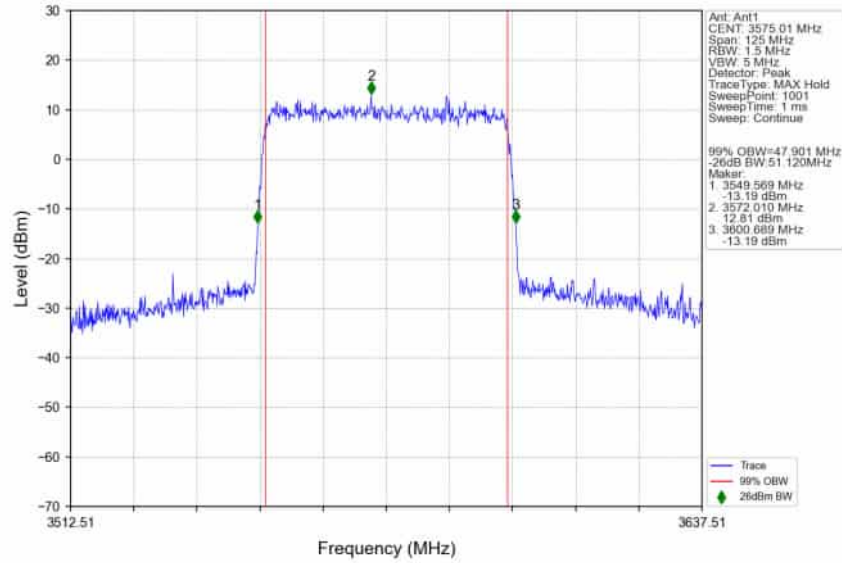
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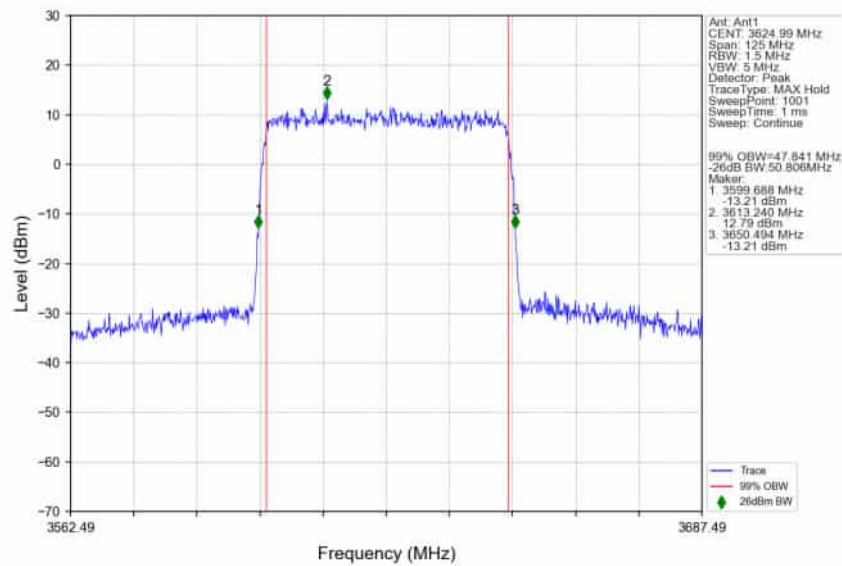
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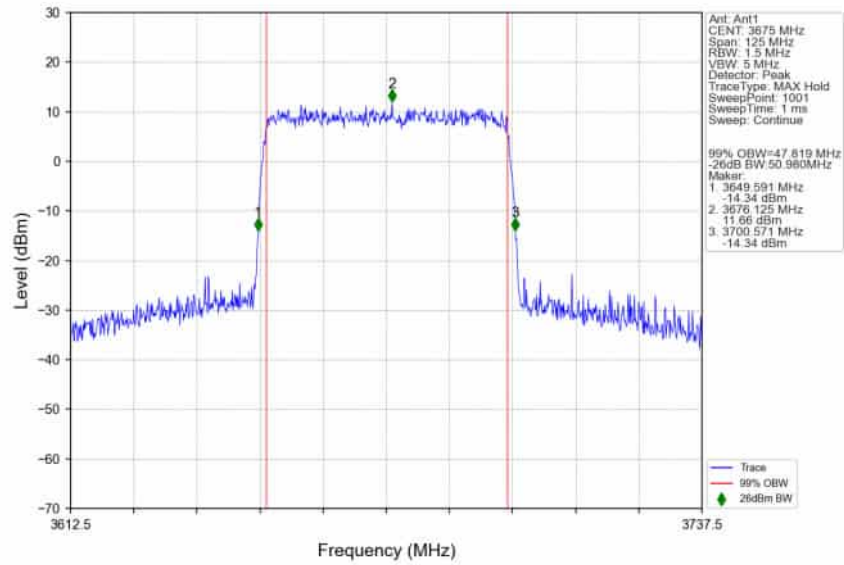
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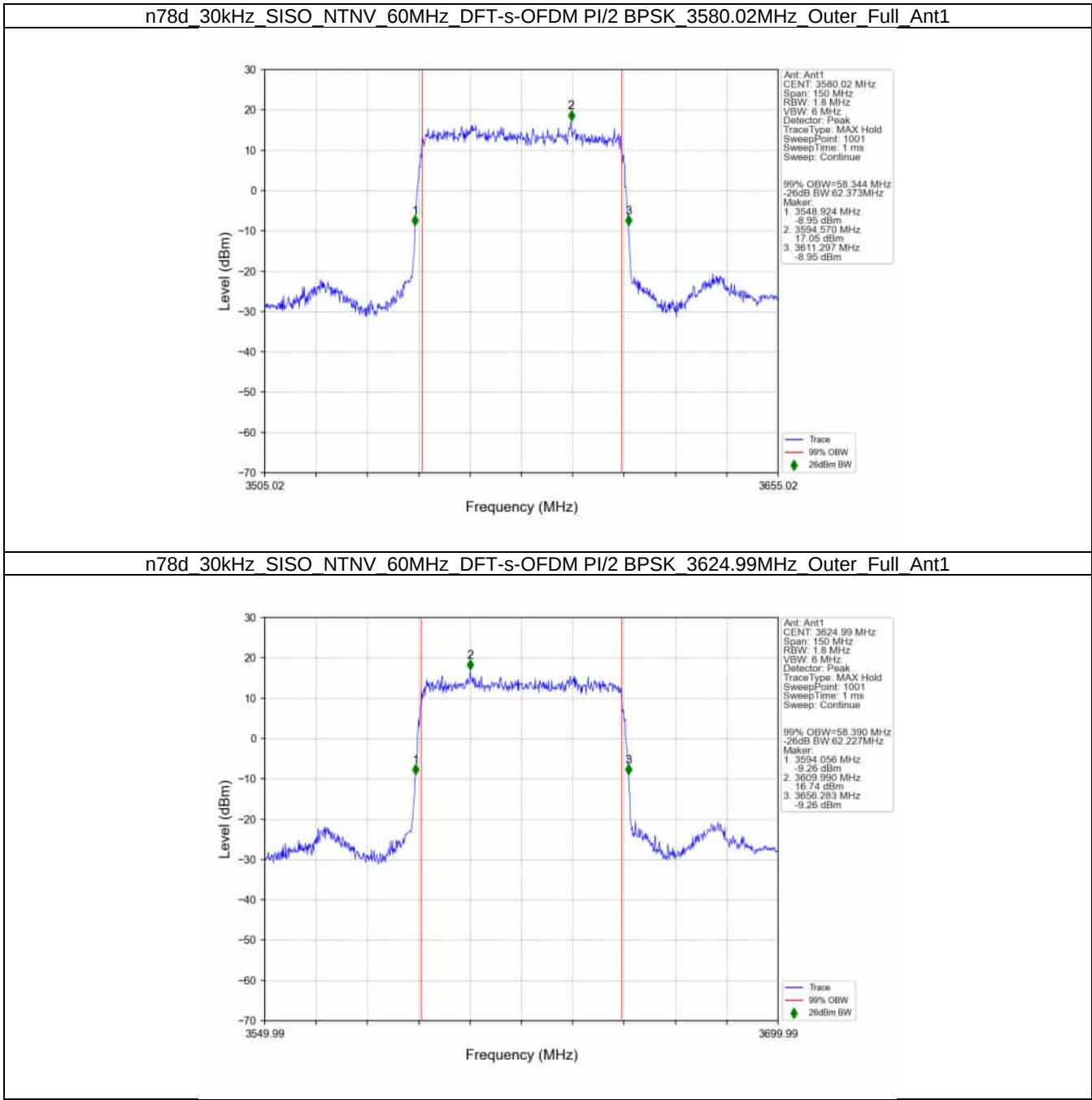
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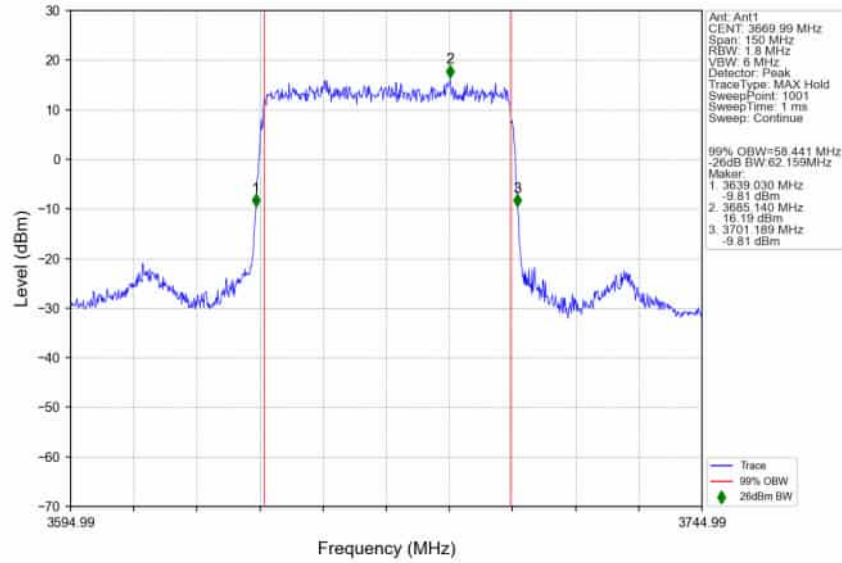
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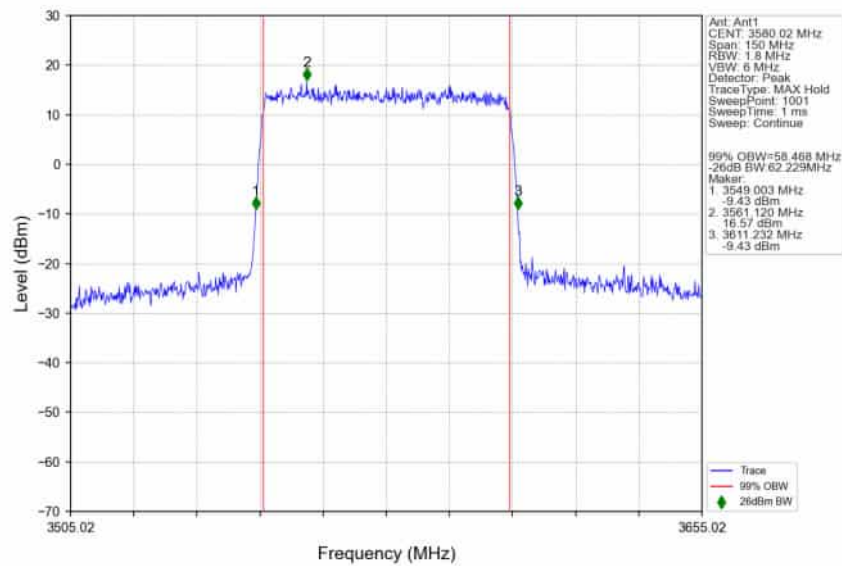
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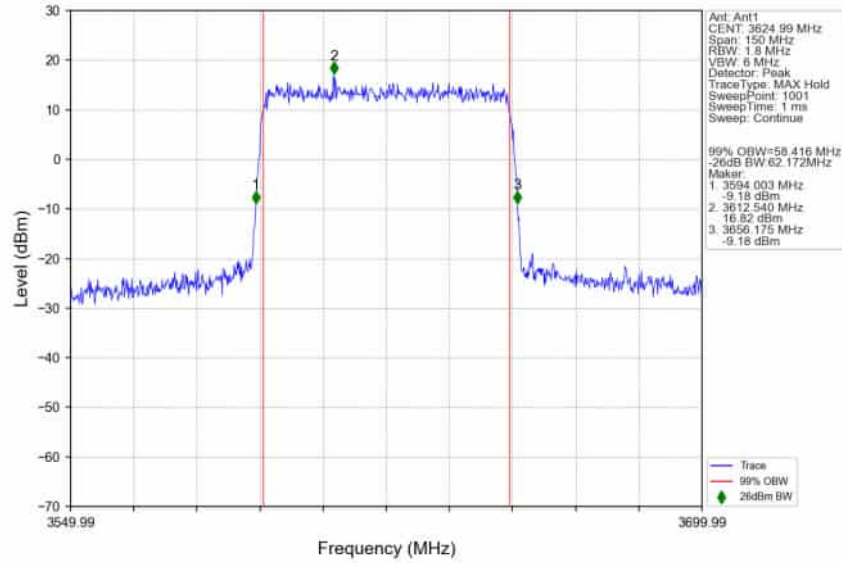
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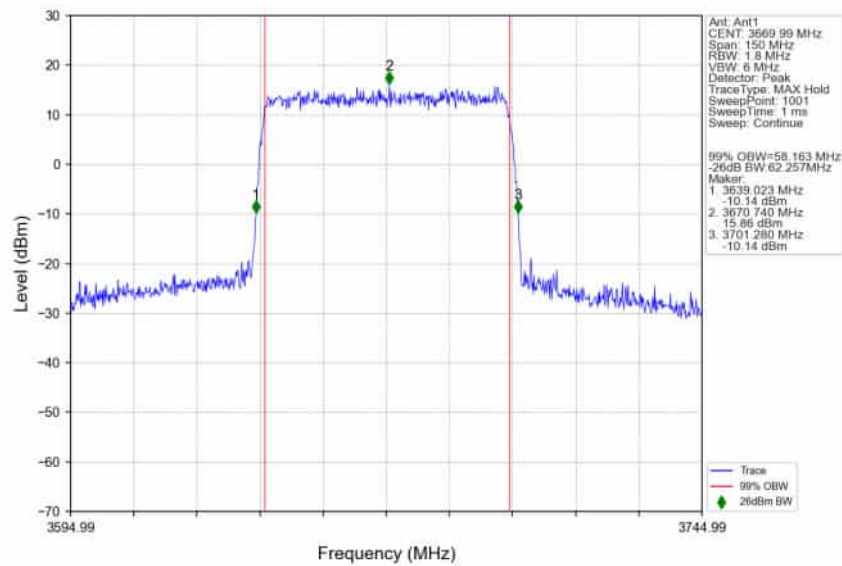
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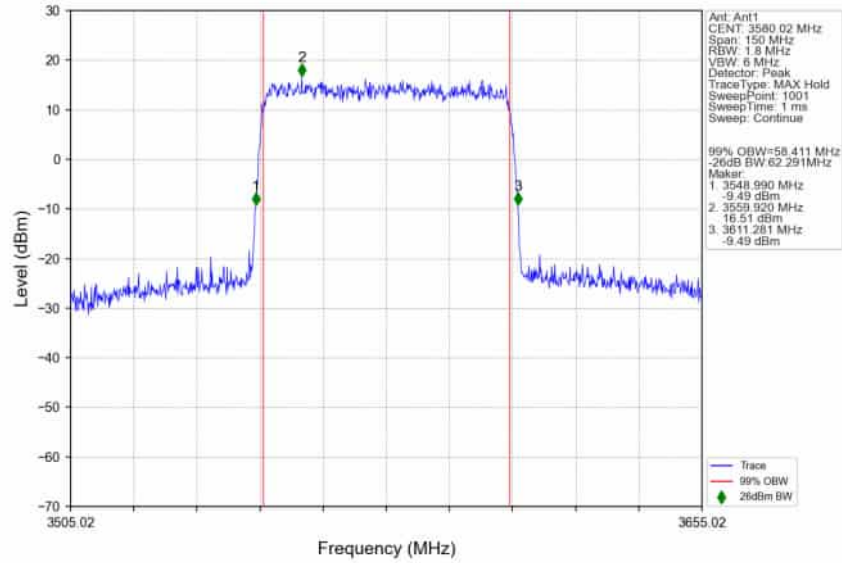
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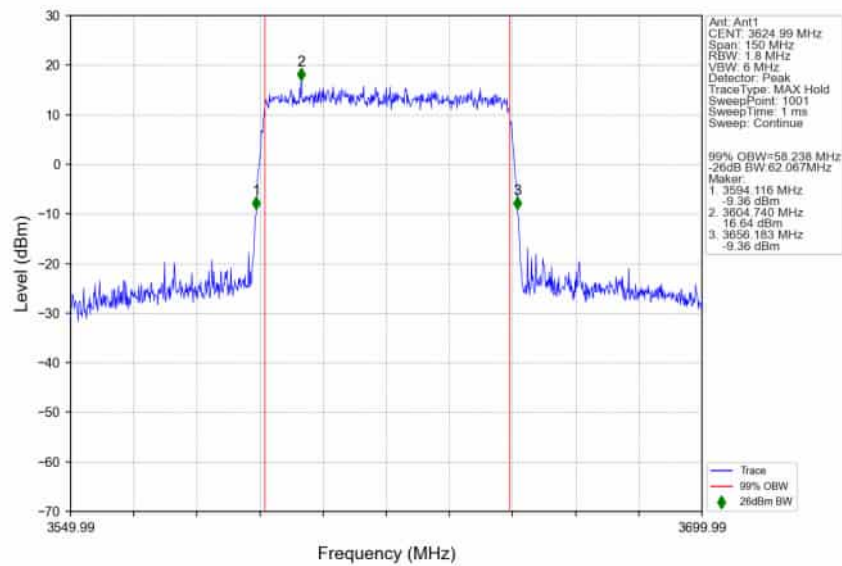
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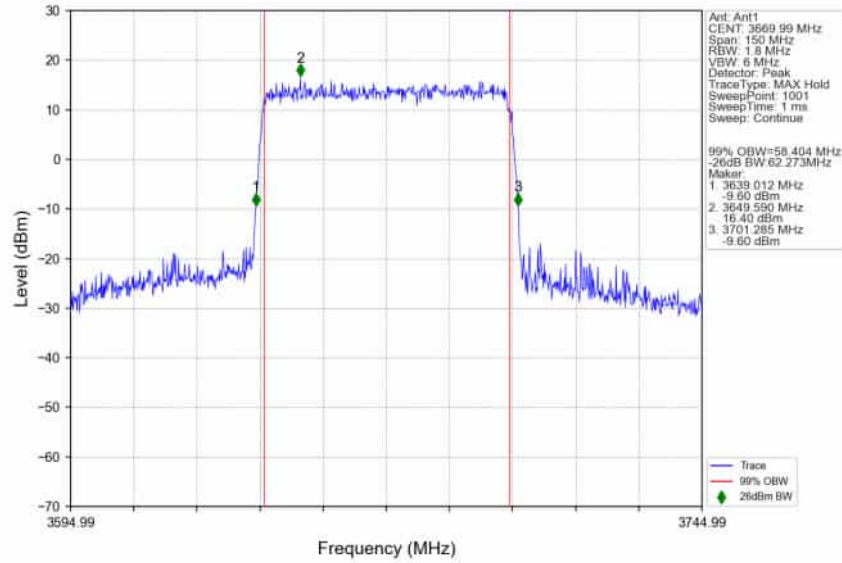
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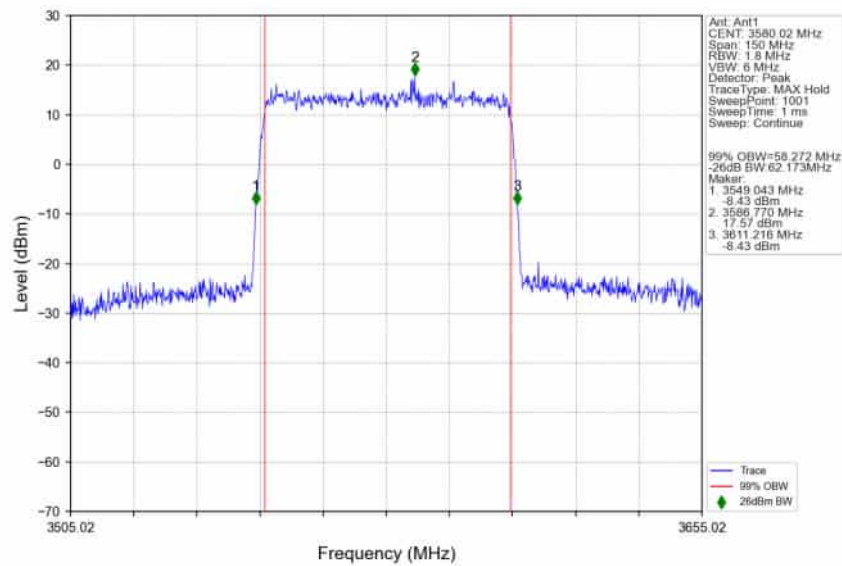
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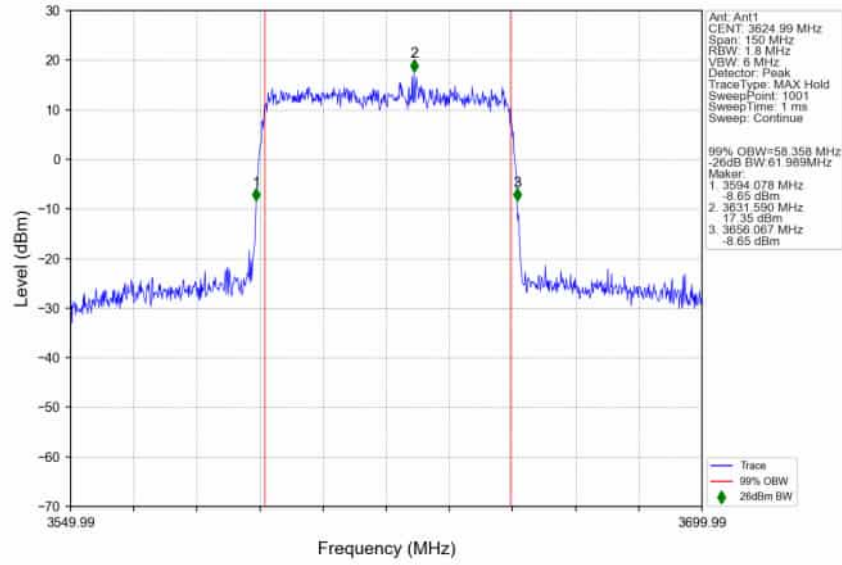
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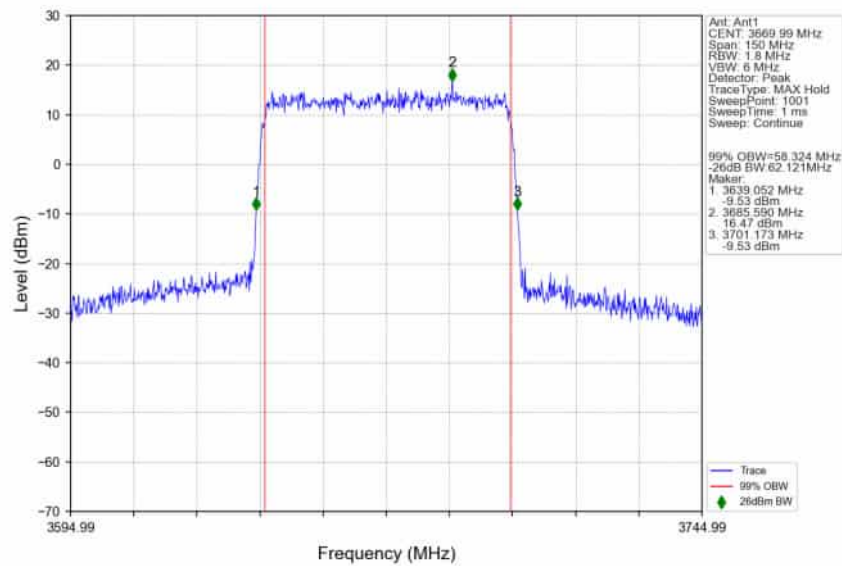
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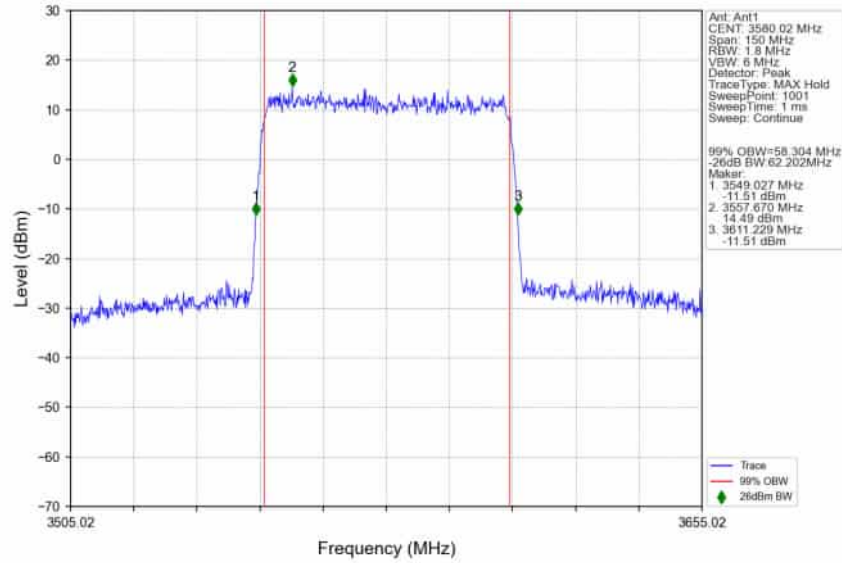
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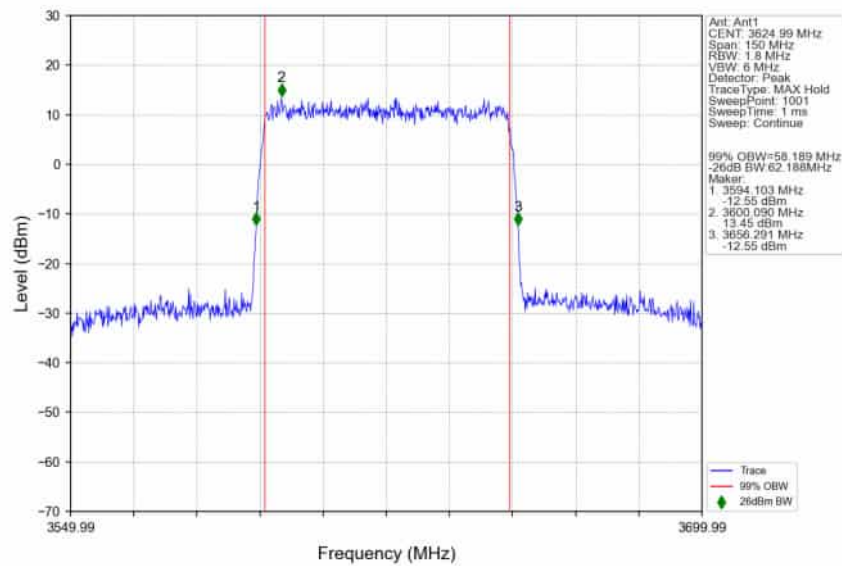
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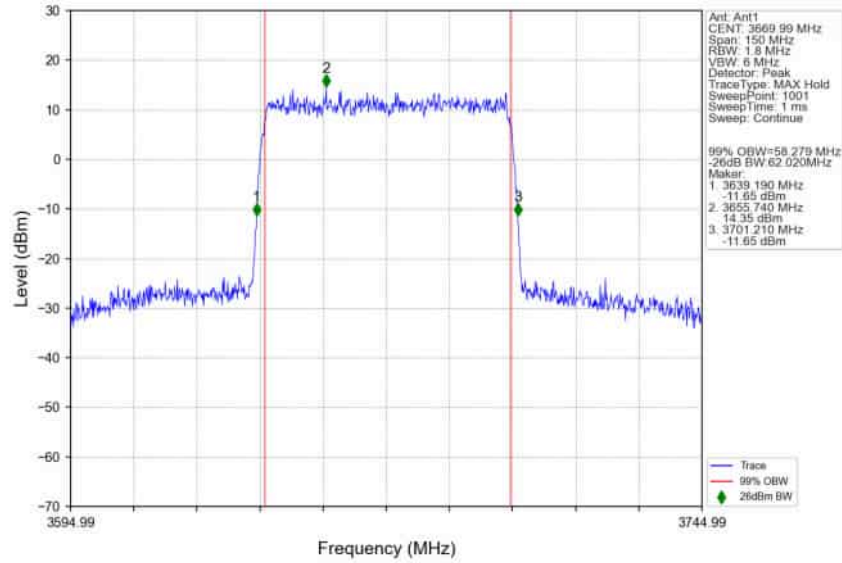
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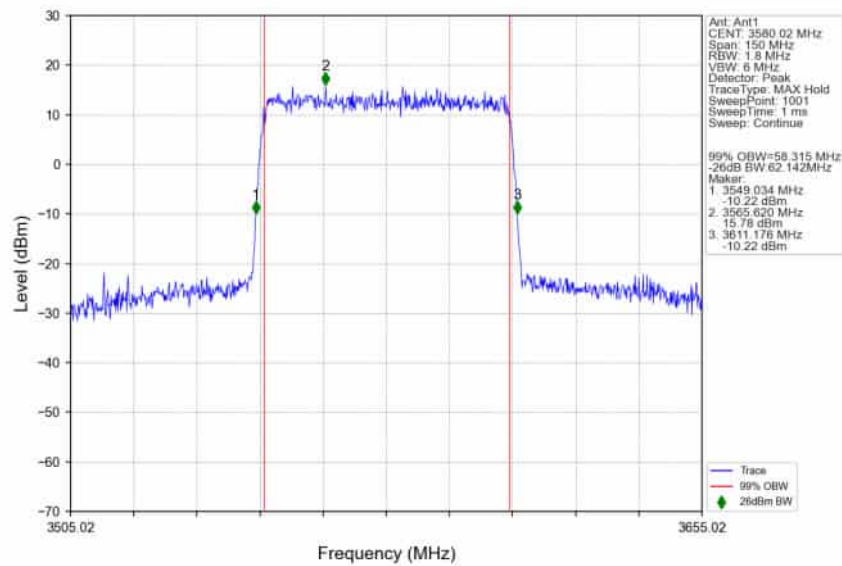
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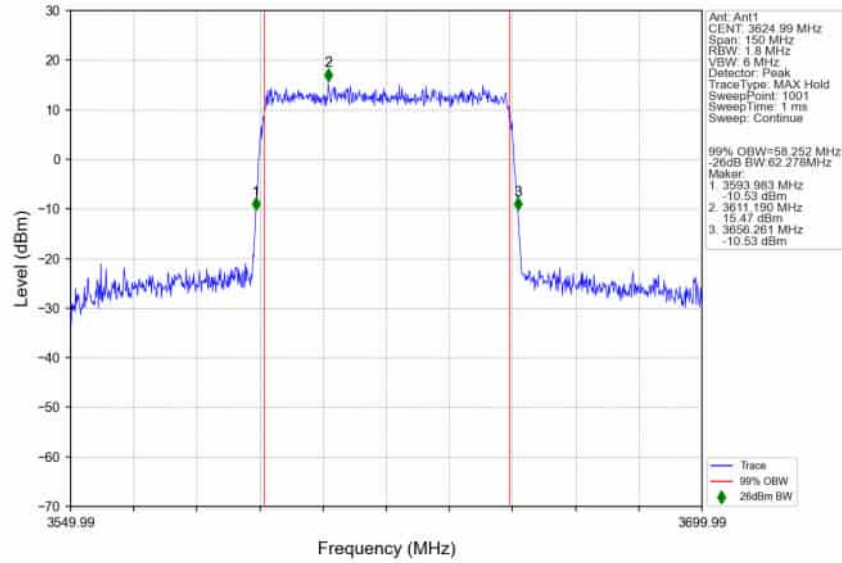
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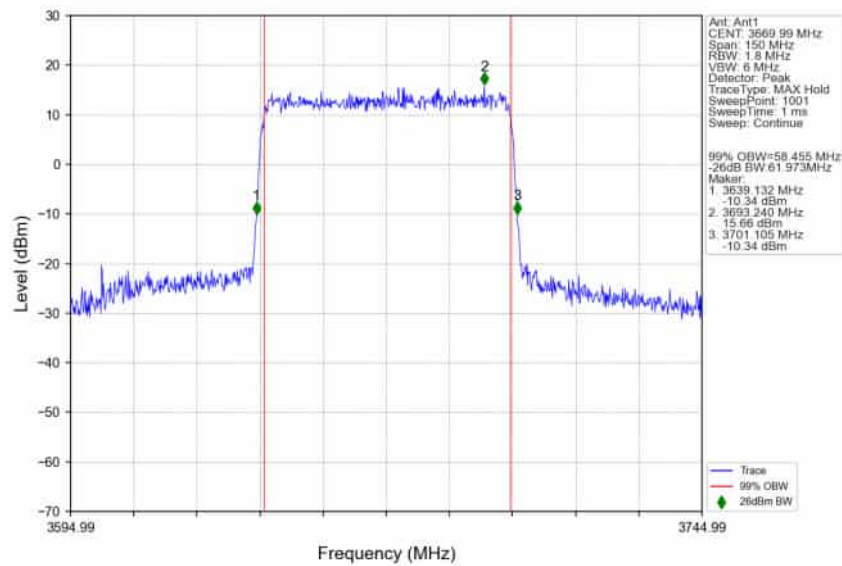
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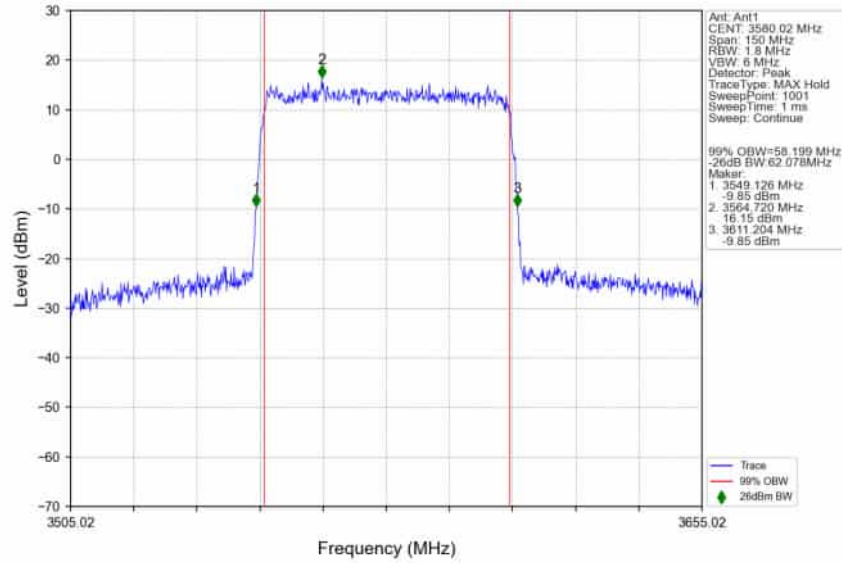
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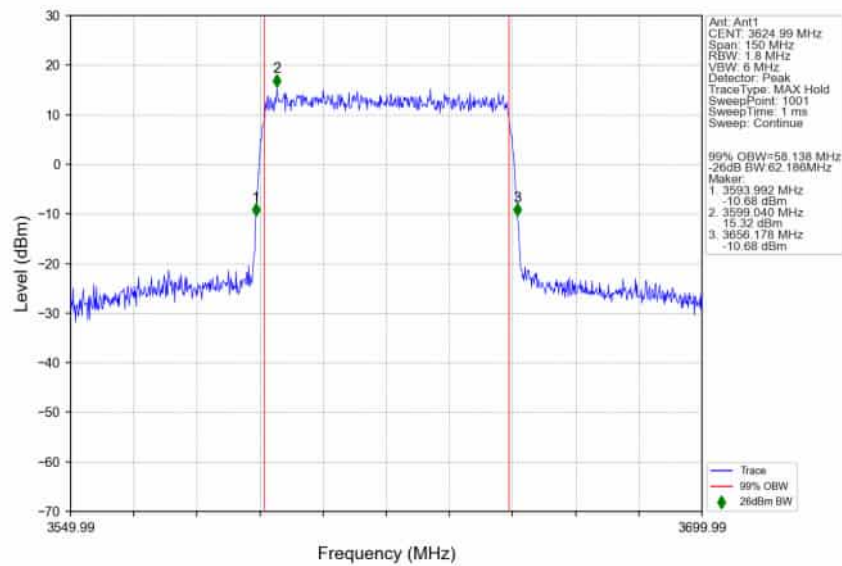
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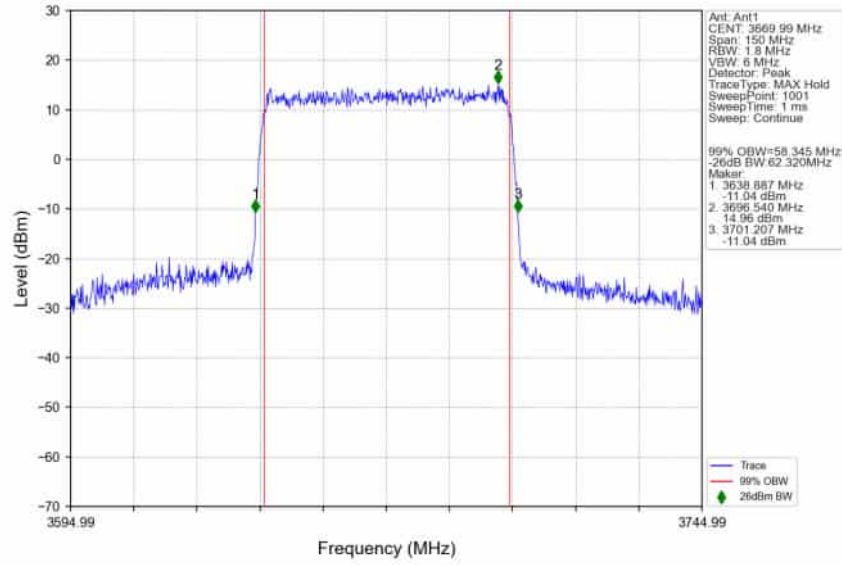
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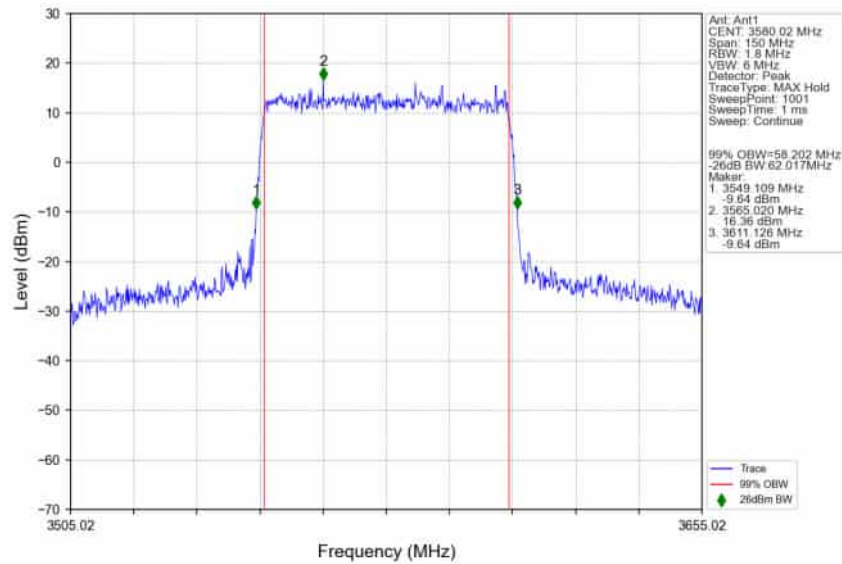
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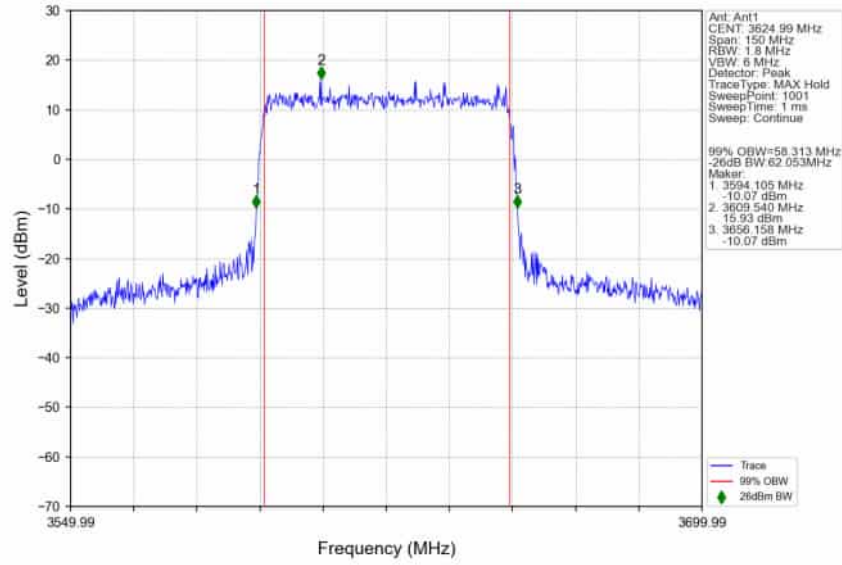
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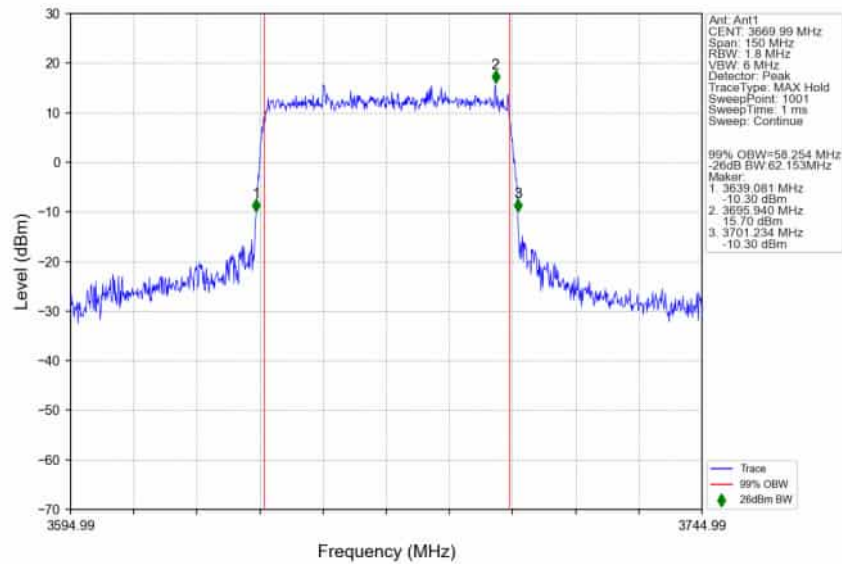
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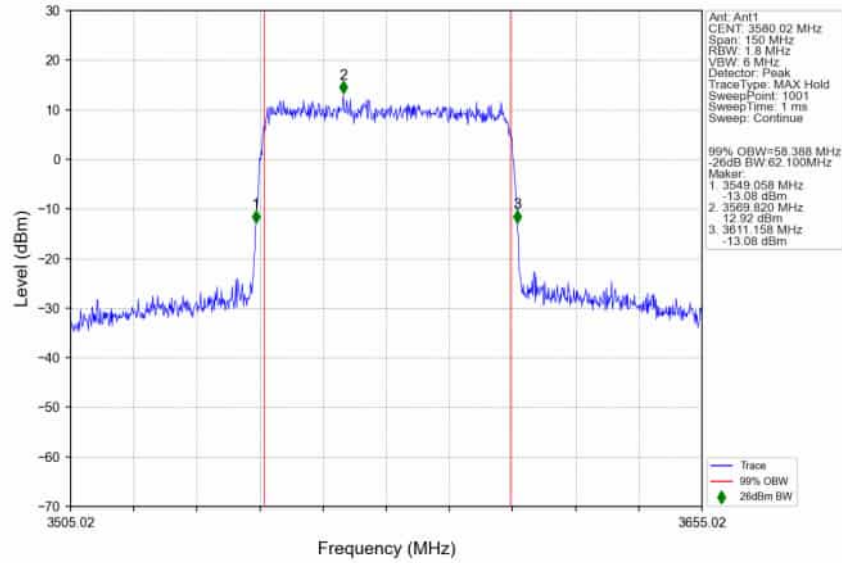
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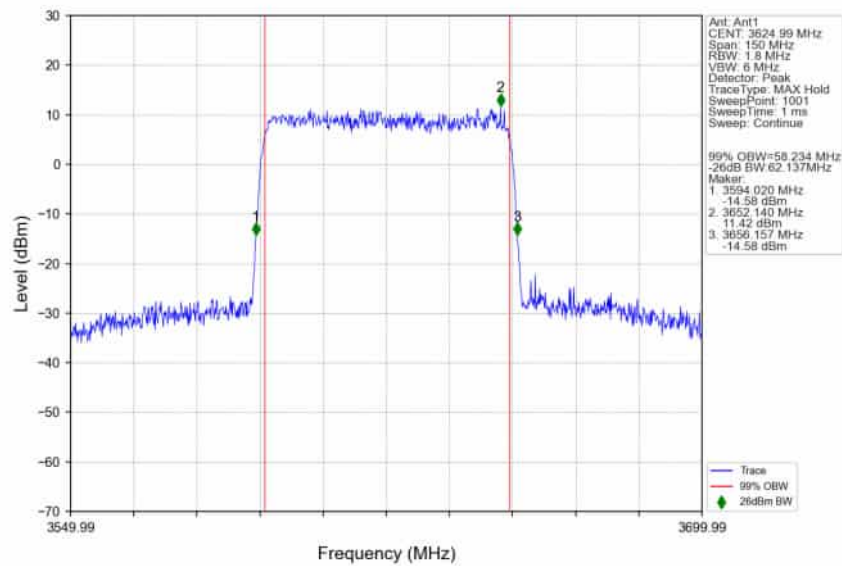
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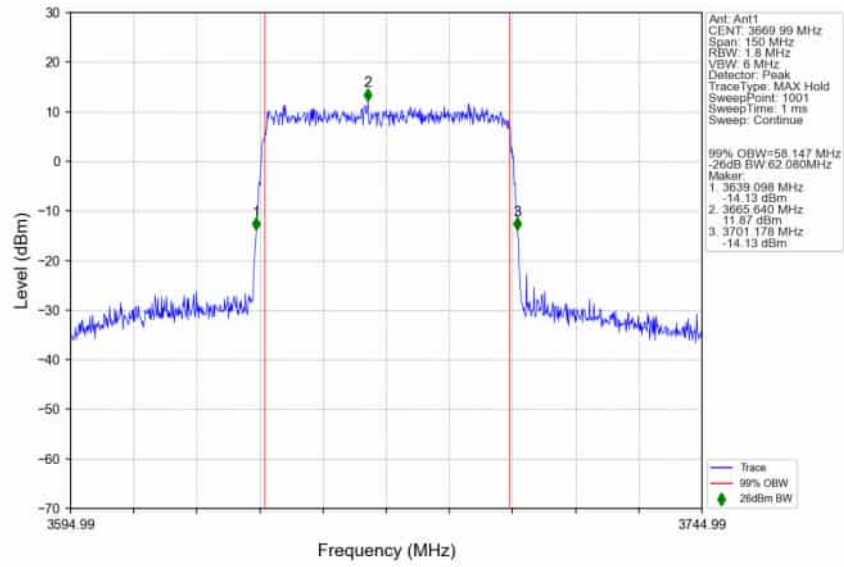
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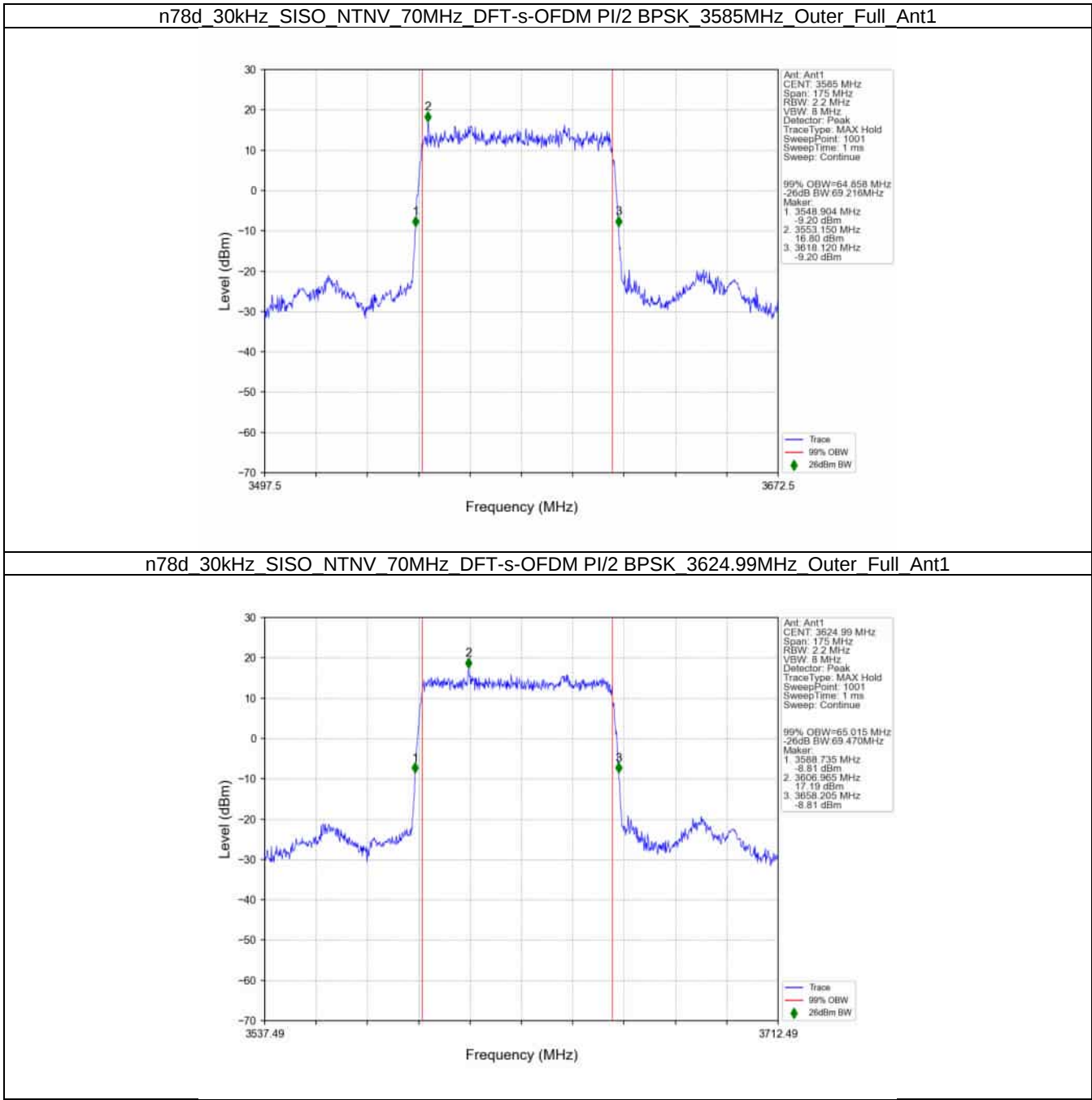
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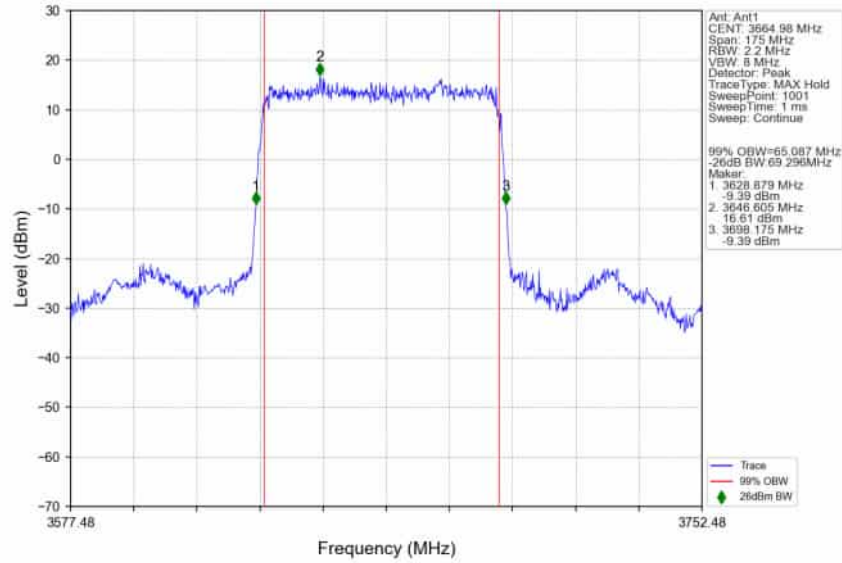
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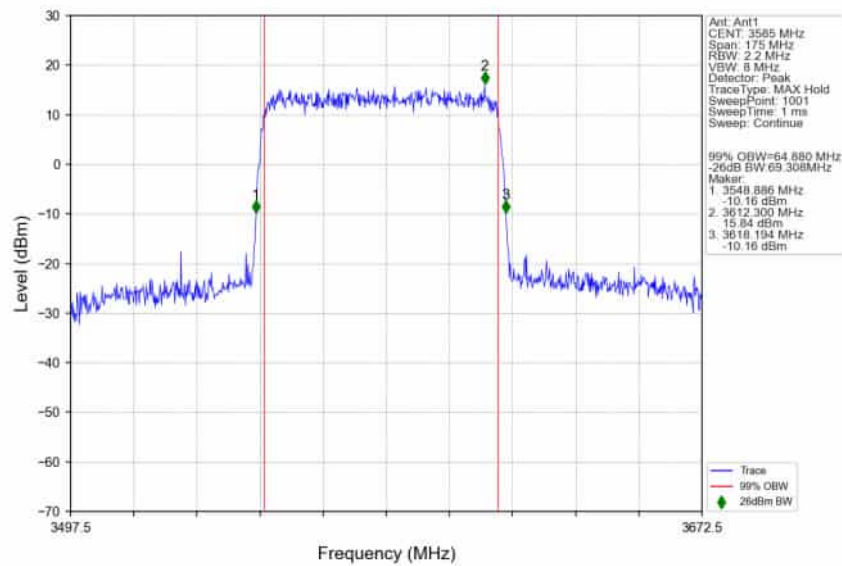
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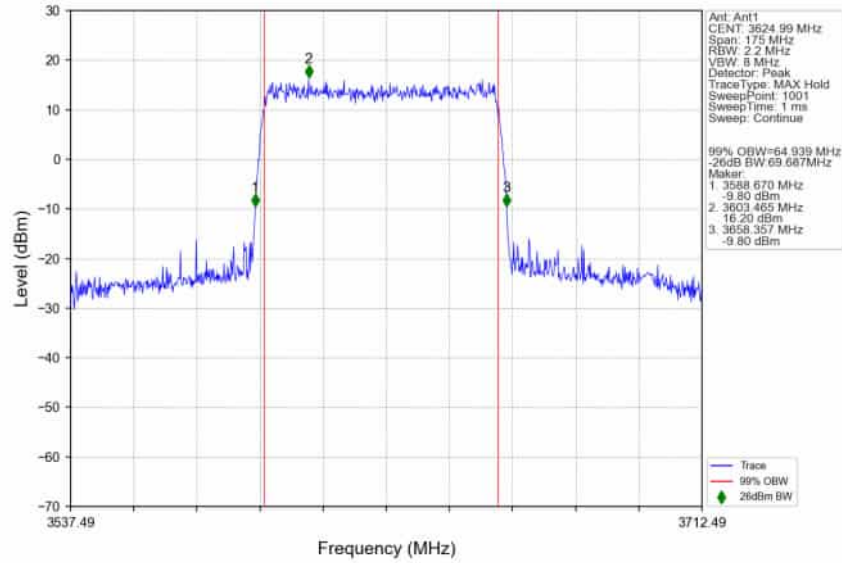
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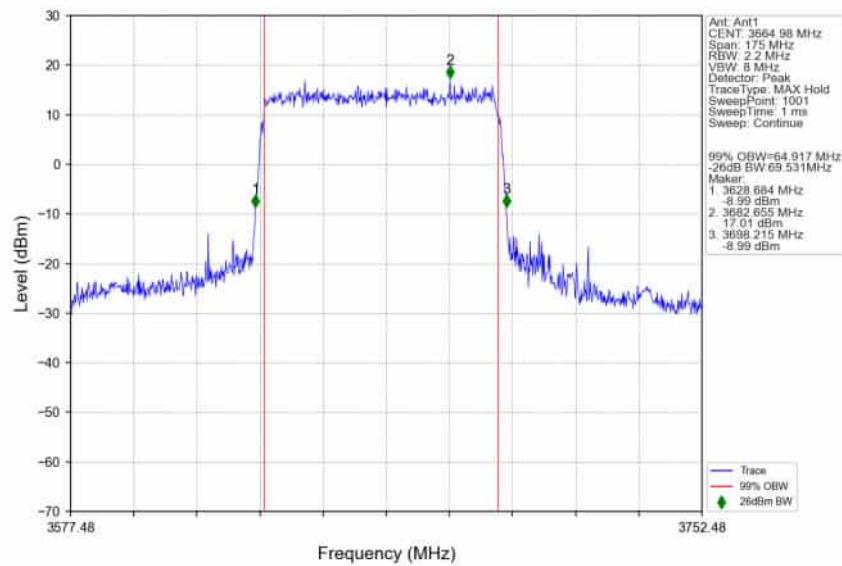
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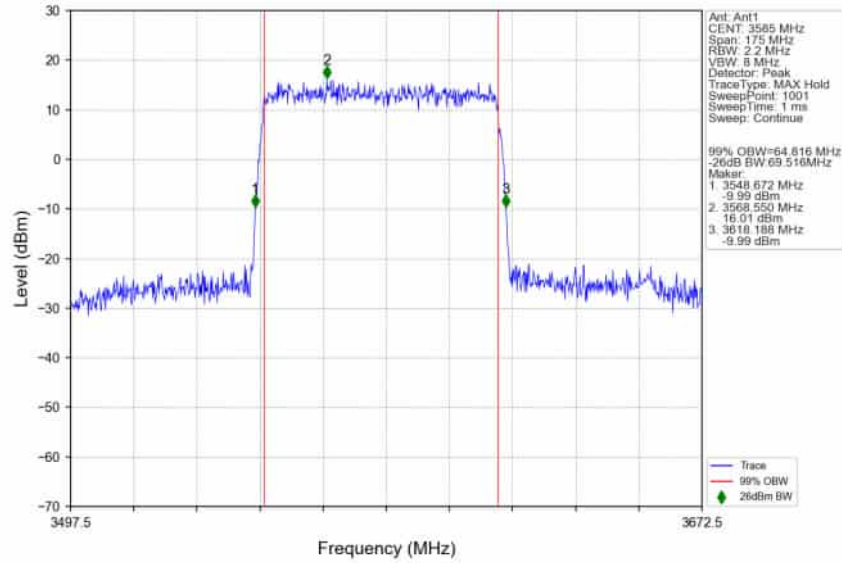
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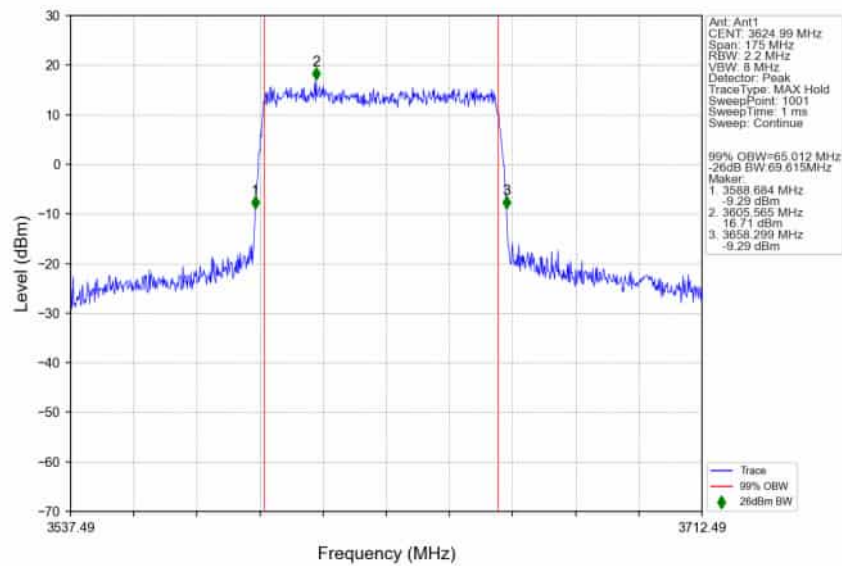
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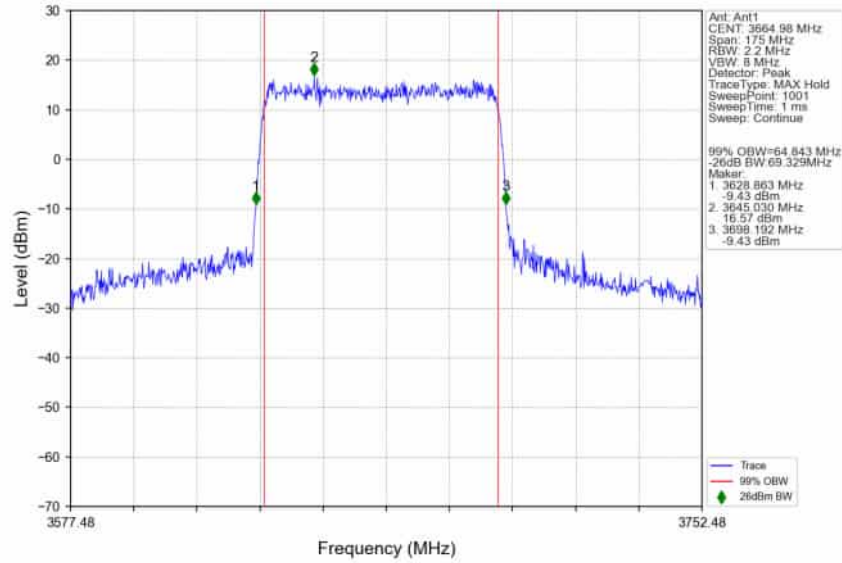
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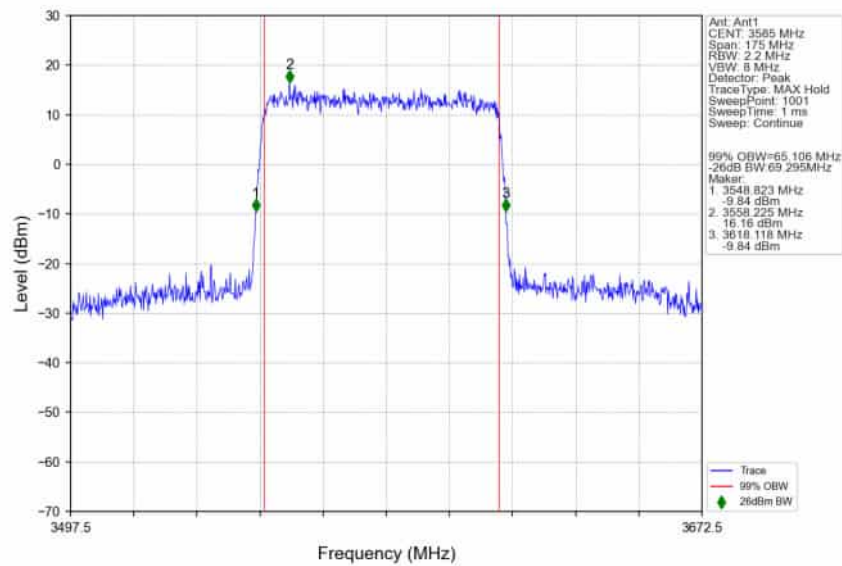
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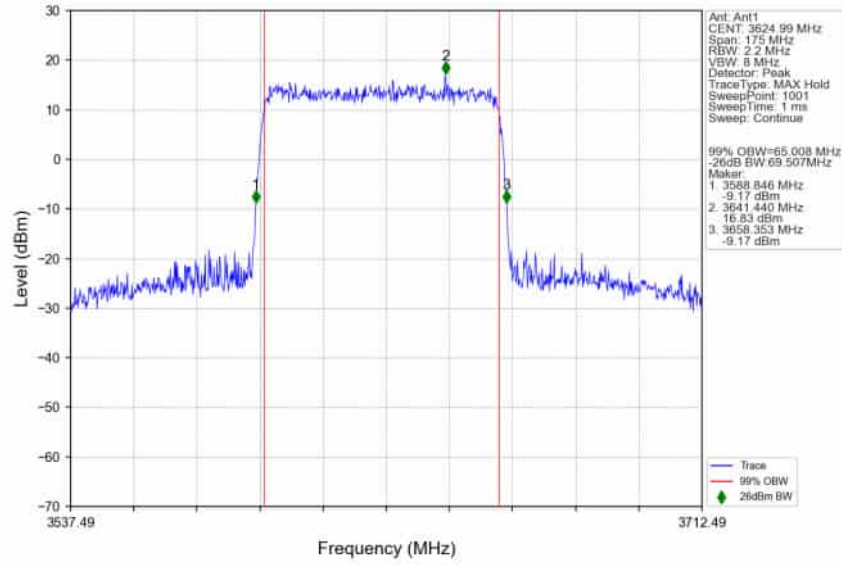
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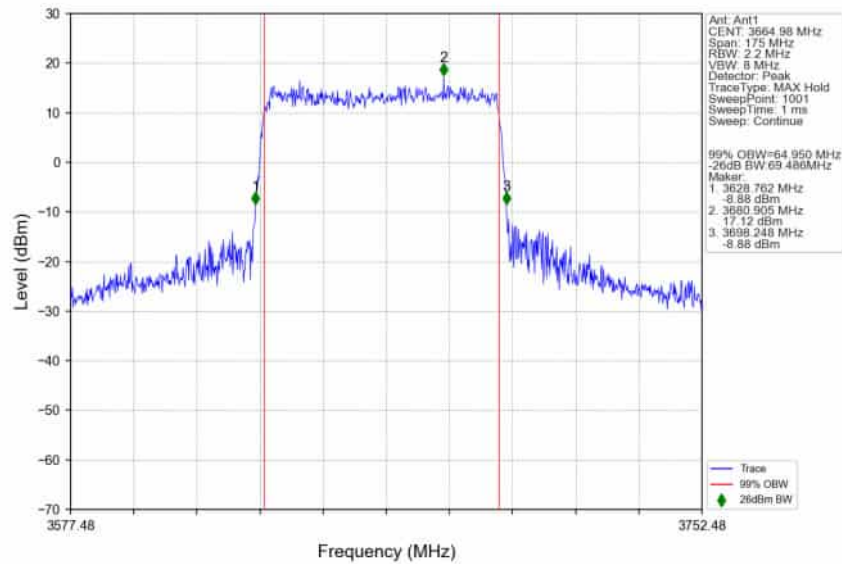
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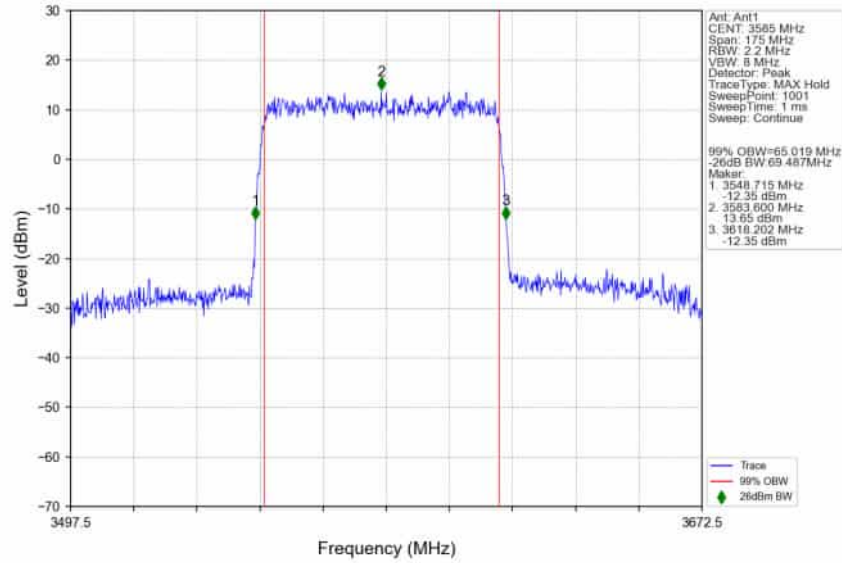
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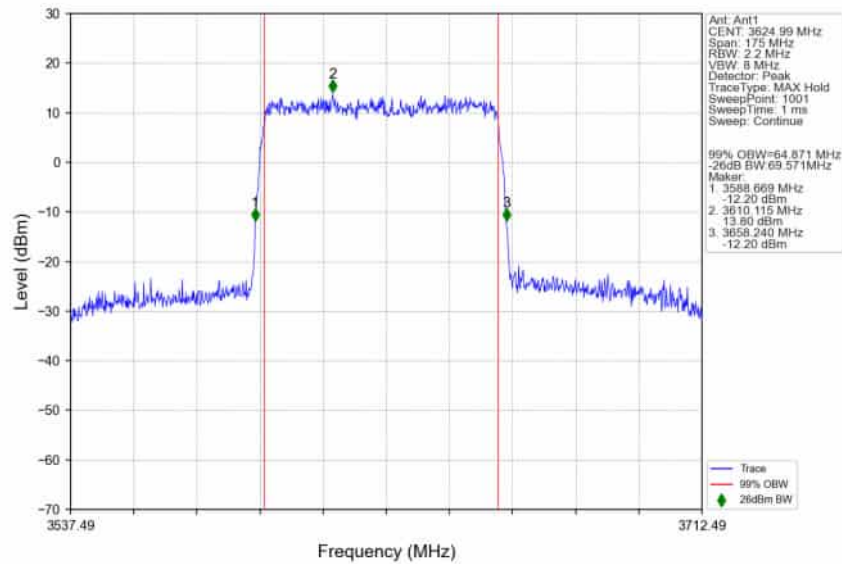
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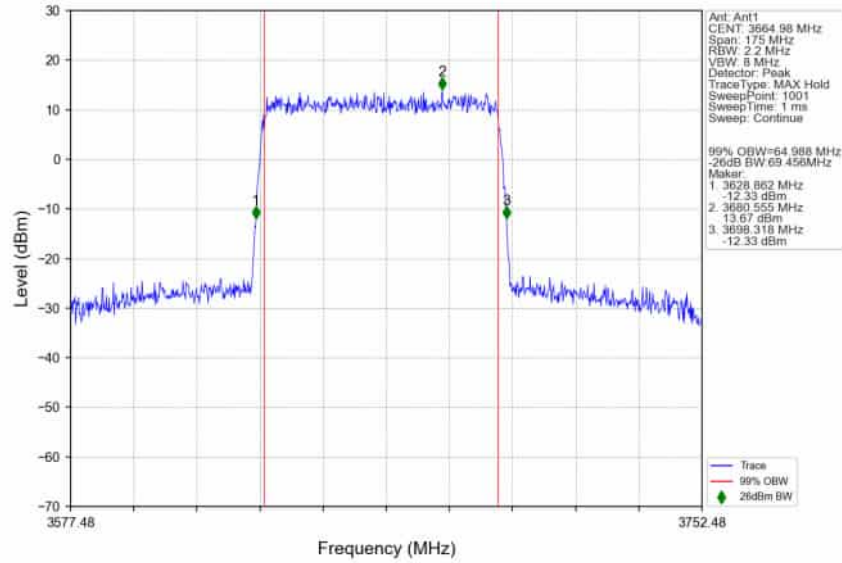
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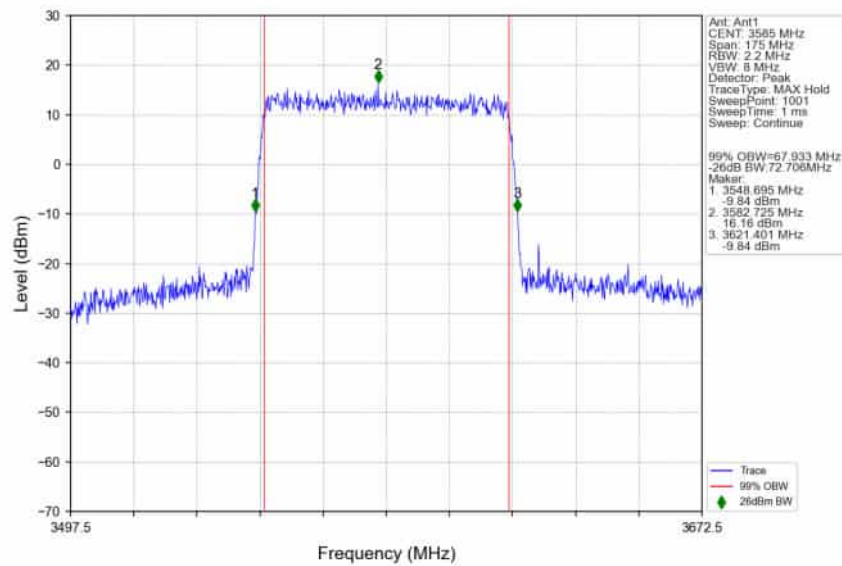
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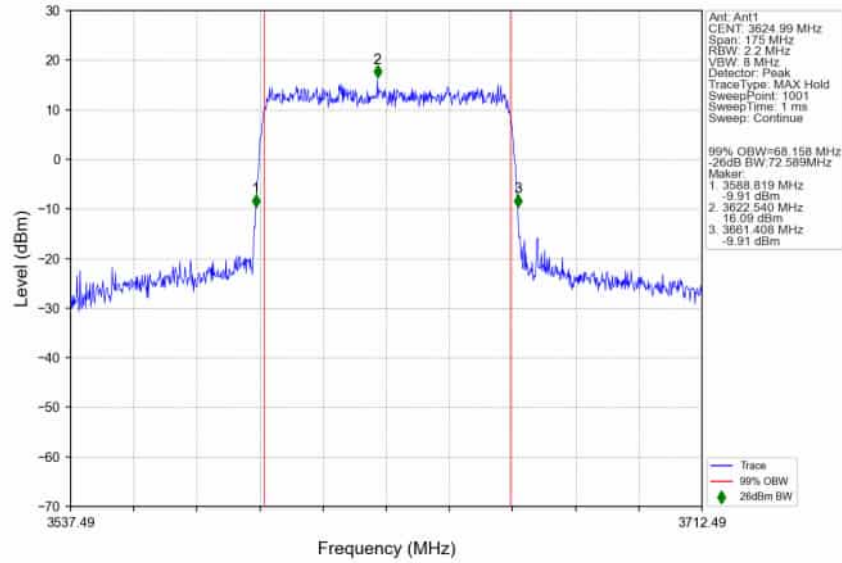
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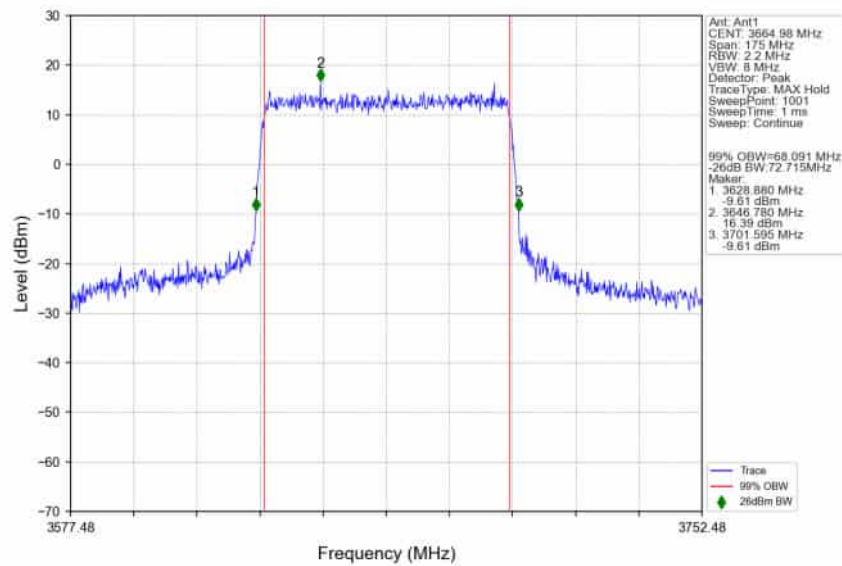
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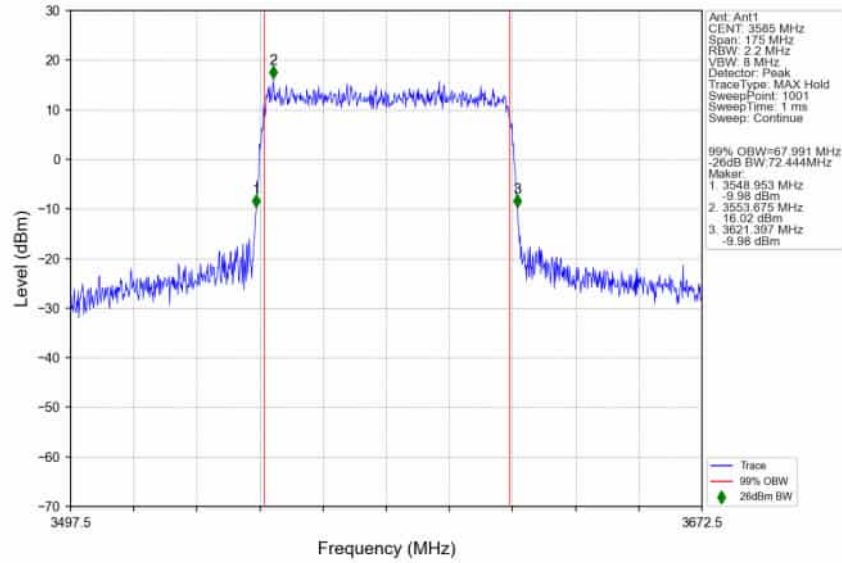
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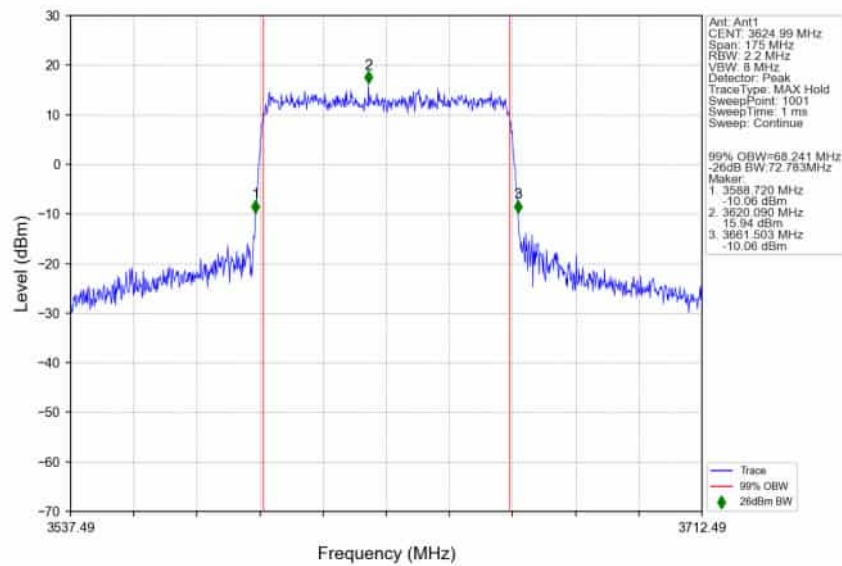
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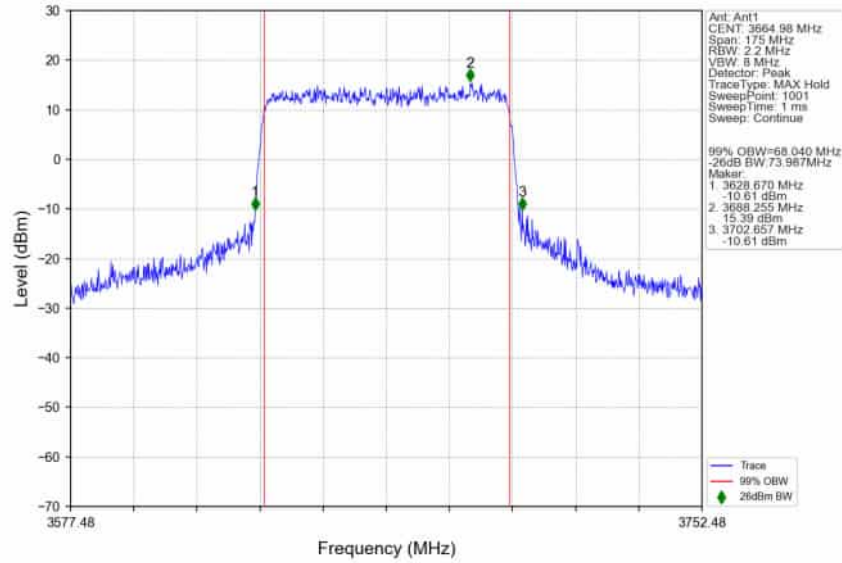
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n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 16 QAM 3664.98MHz_Outer_Full_Ant1



n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM 3585MHz_Outer_Full_Ant1

