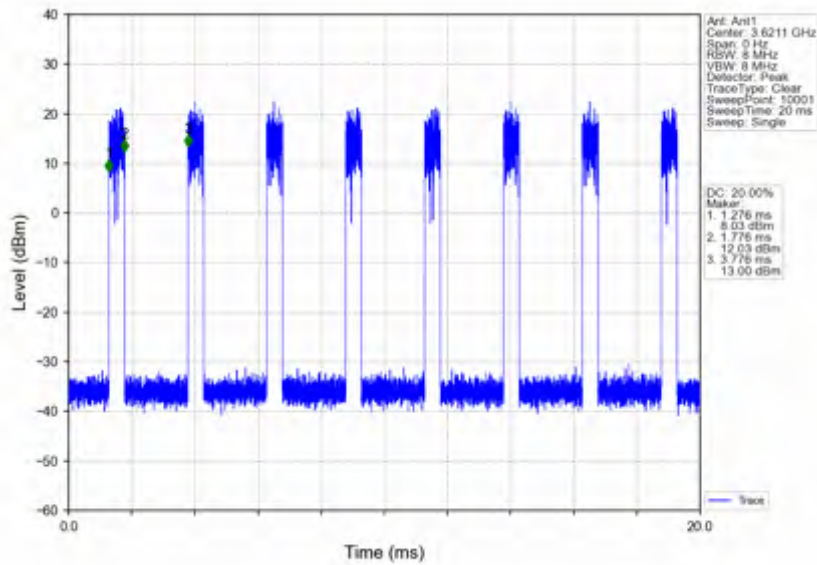
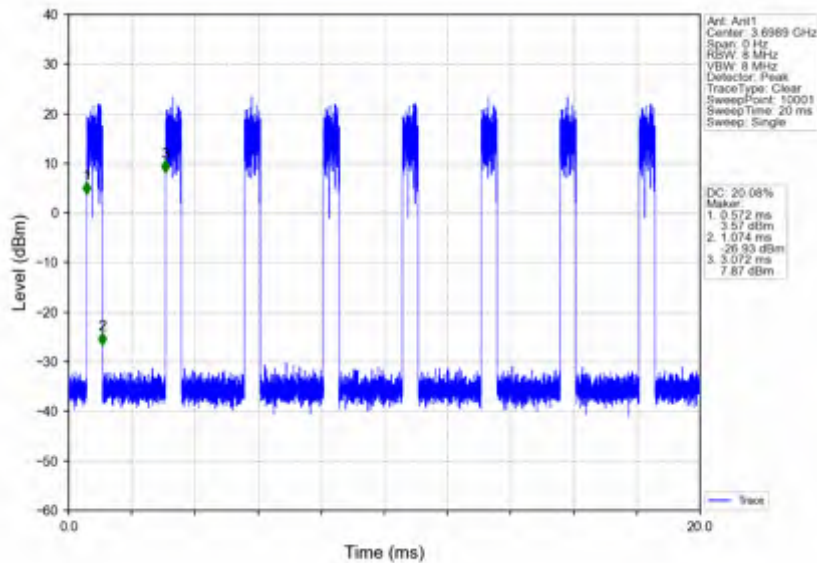


n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16 QAM_3660MHz_Edge_1RB_Left



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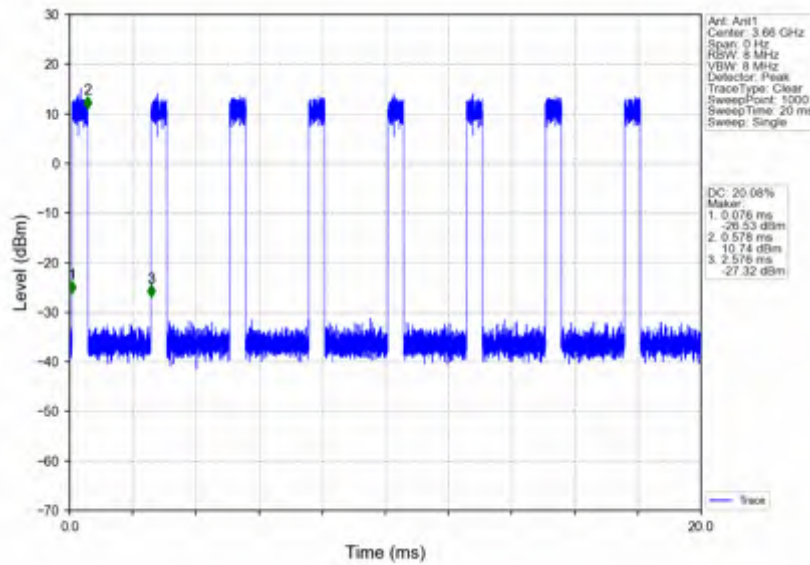


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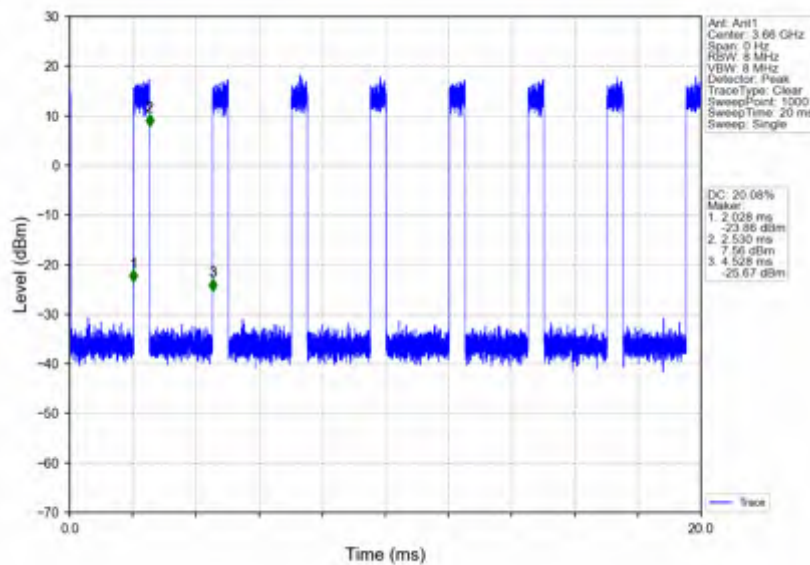
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16 QAM_3660MHz_Outer_Full



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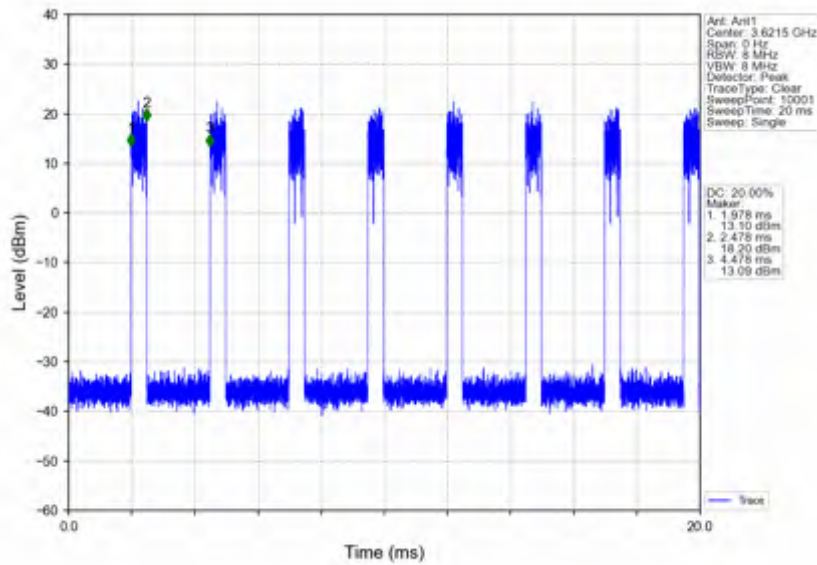


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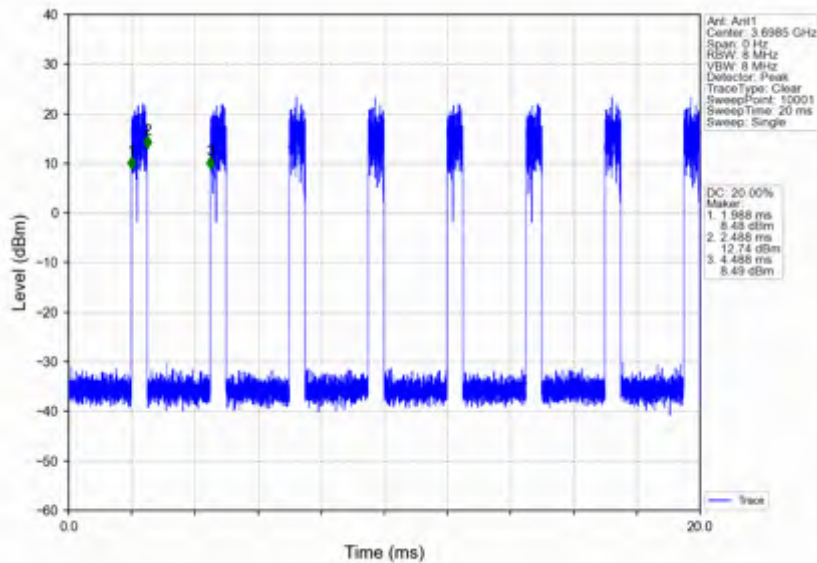
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_16 QAM_3660MHz_Inner_1RB_Left



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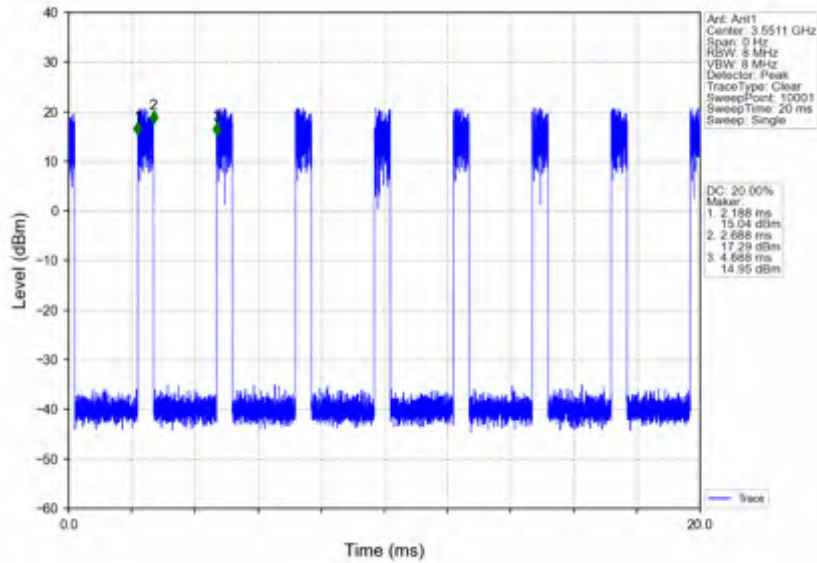
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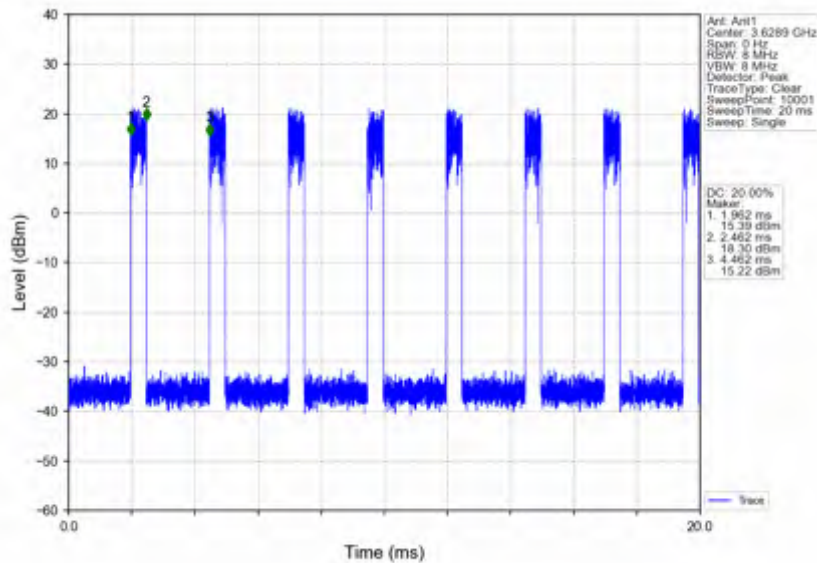
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3590.01MHz_Edge_1RB_Left



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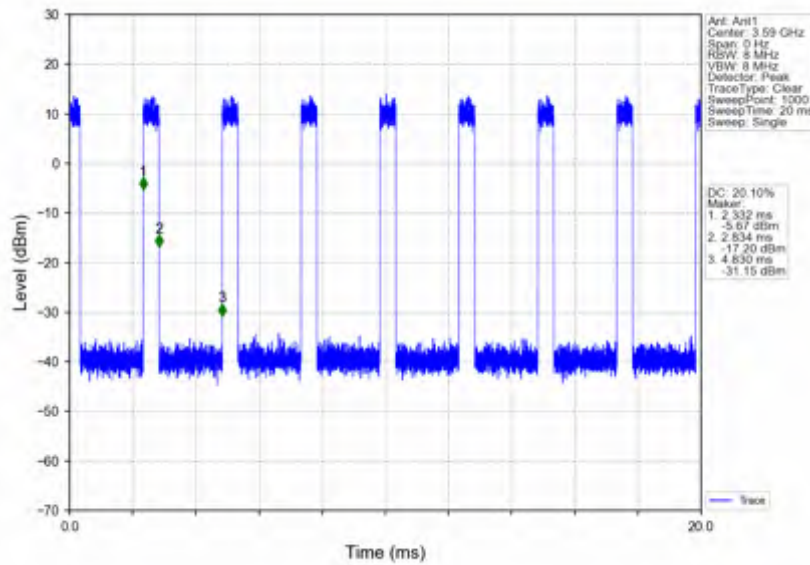


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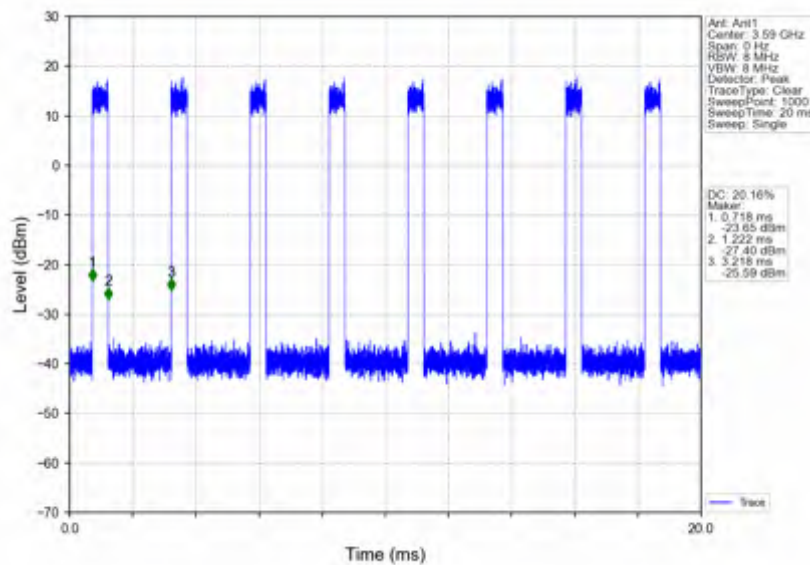
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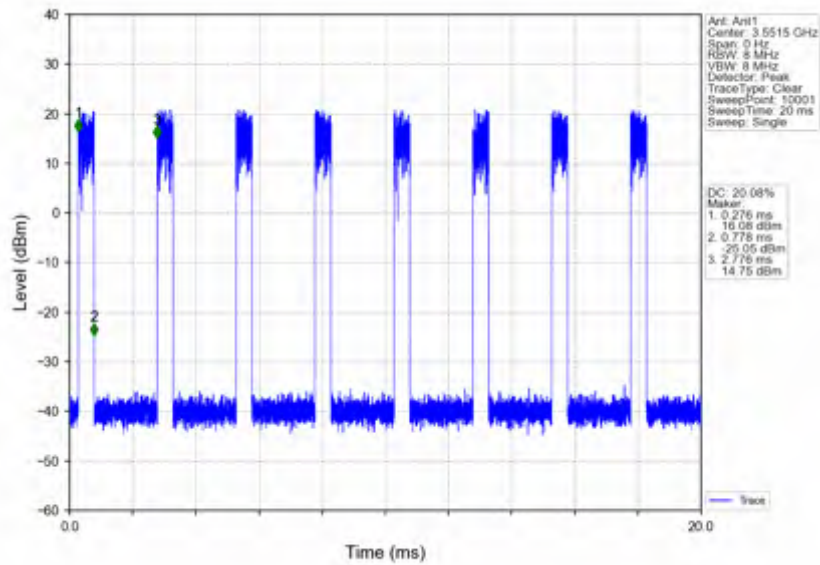


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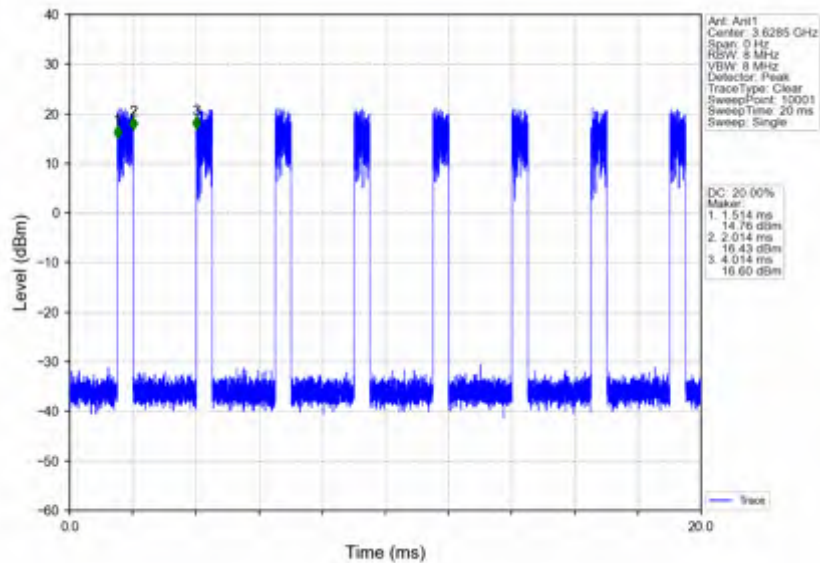
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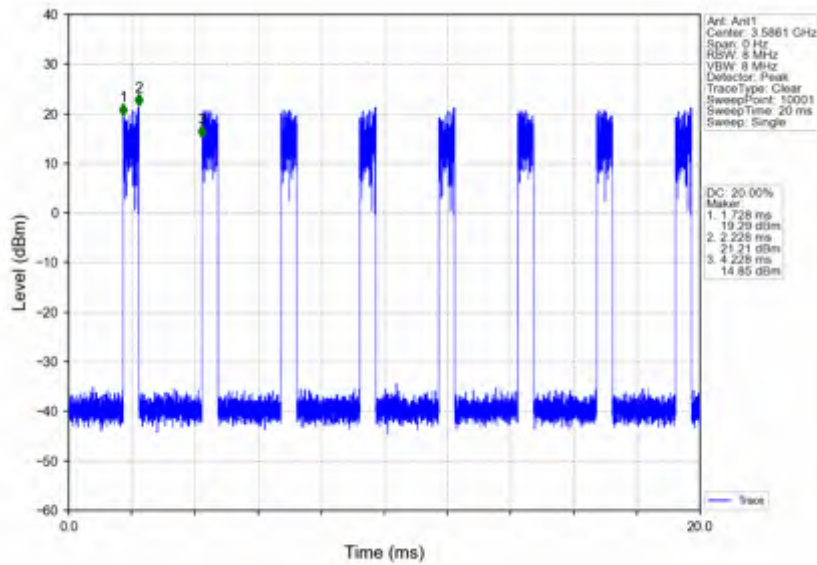


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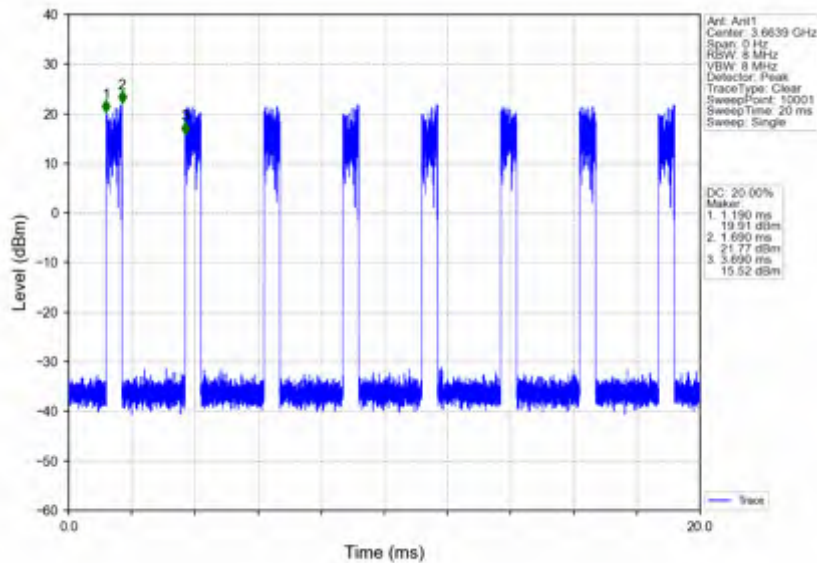
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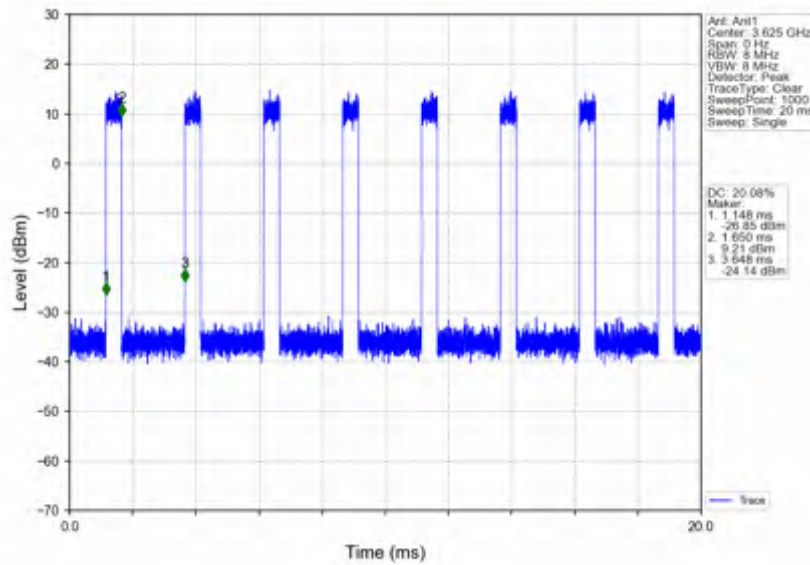


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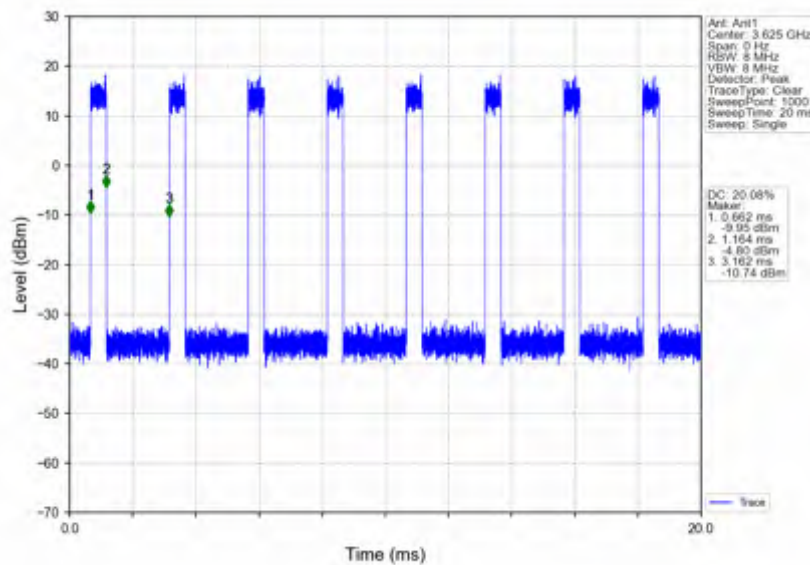
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n78d_30kHz_SISO_NTV_80MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



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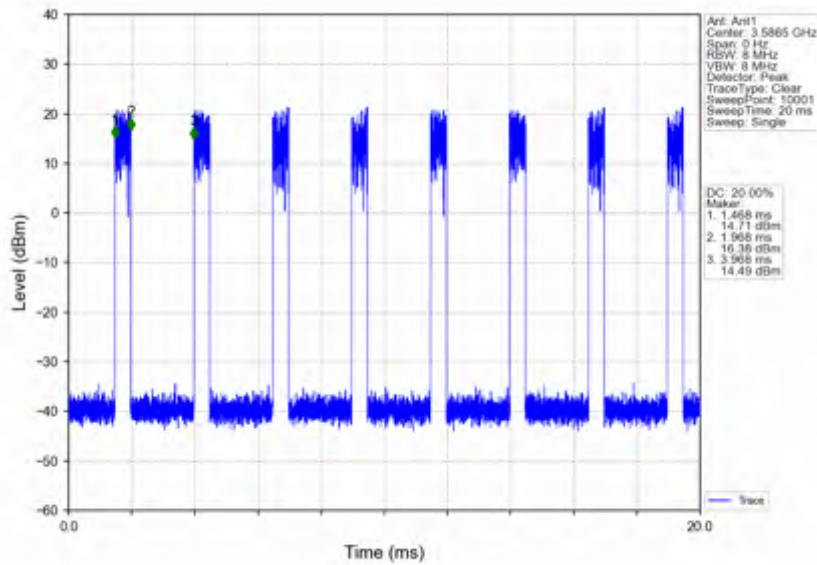


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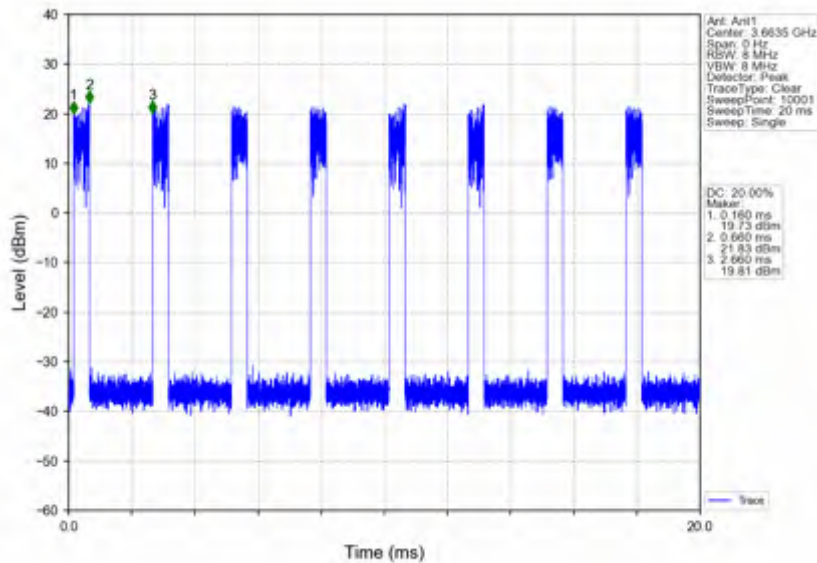
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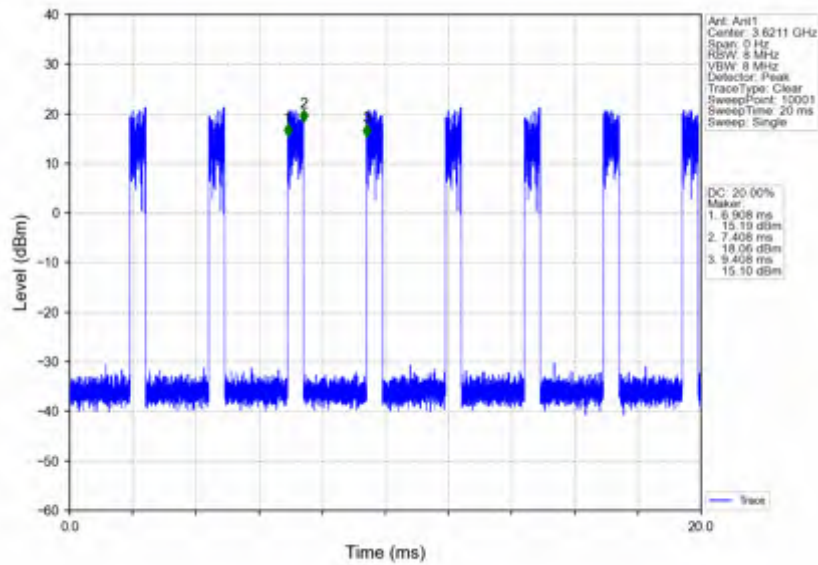


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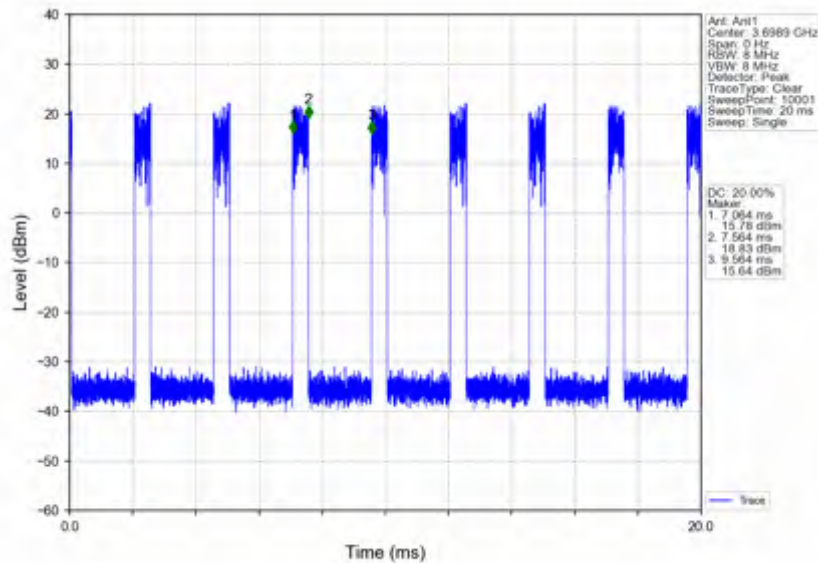
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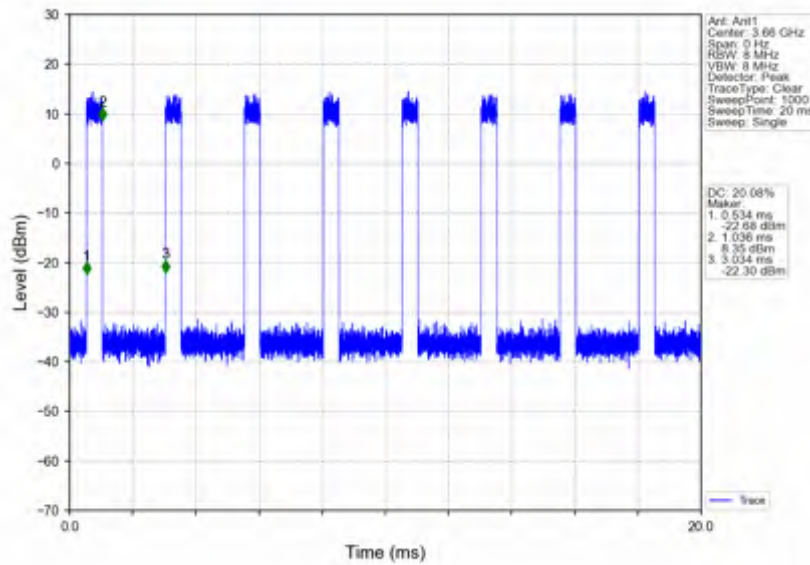


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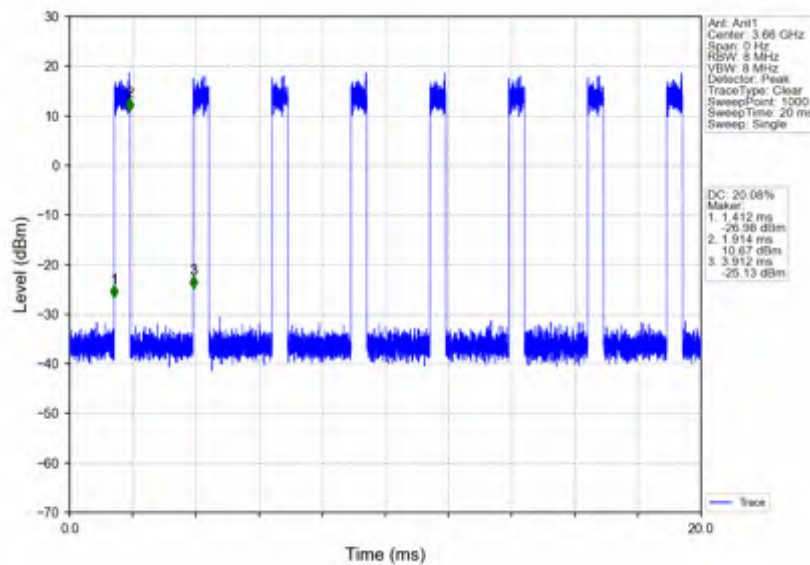
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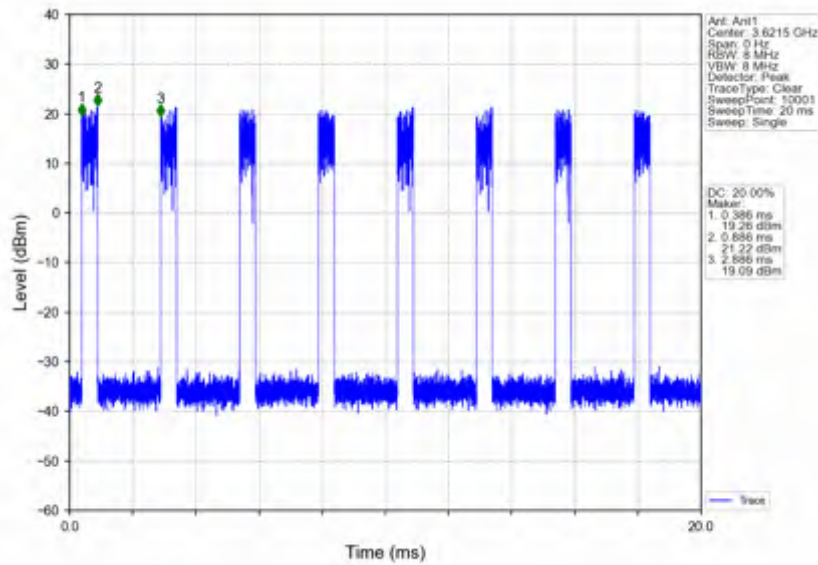


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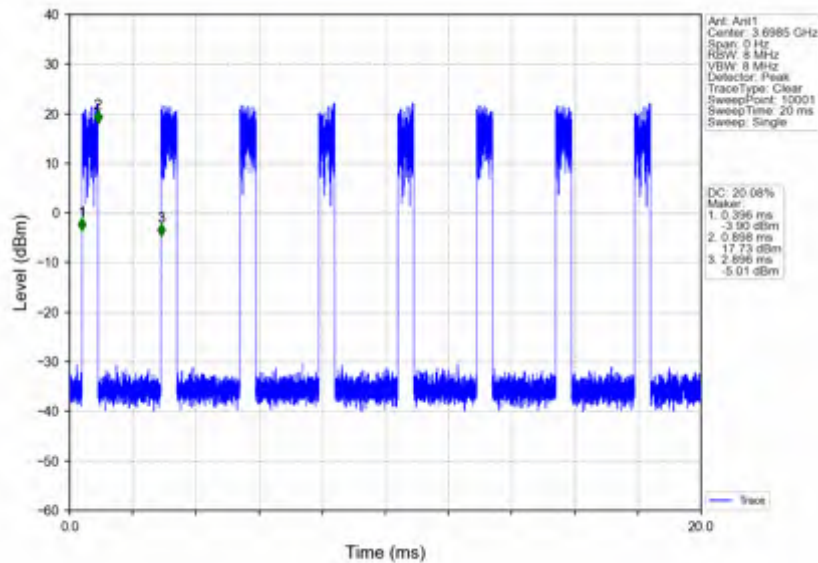
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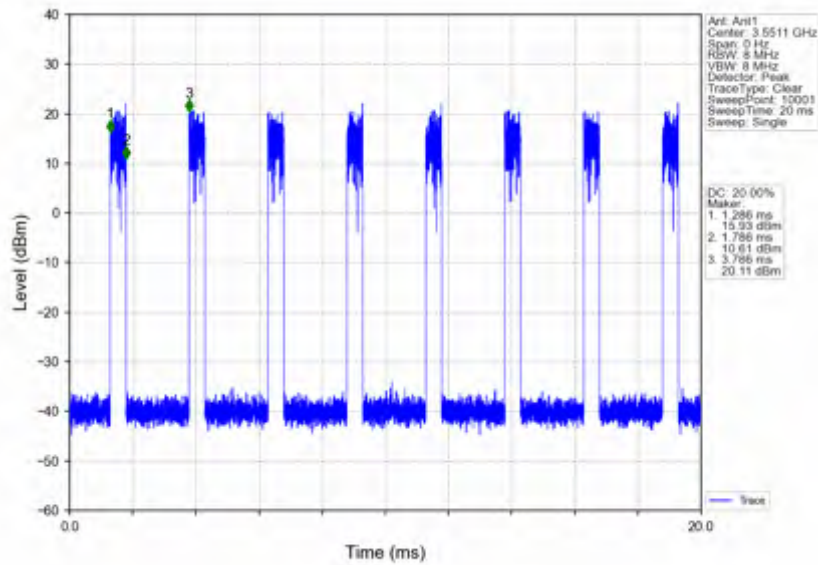


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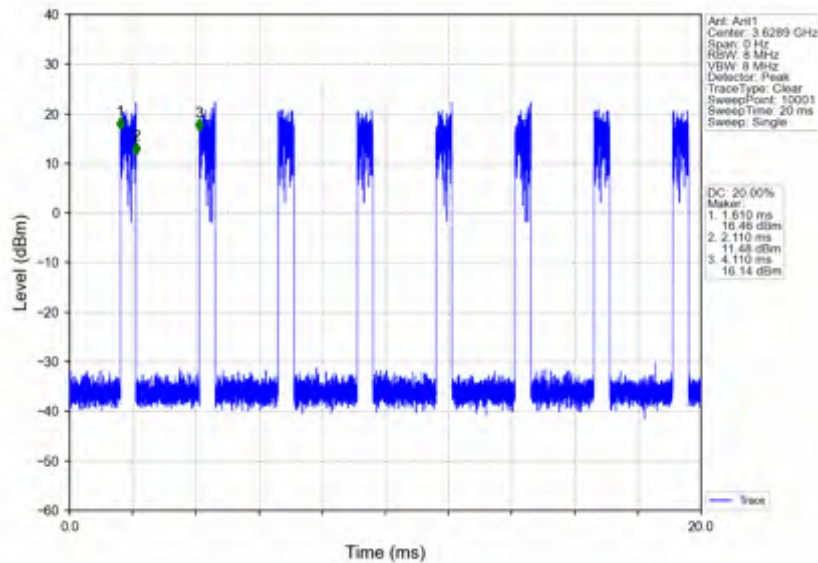
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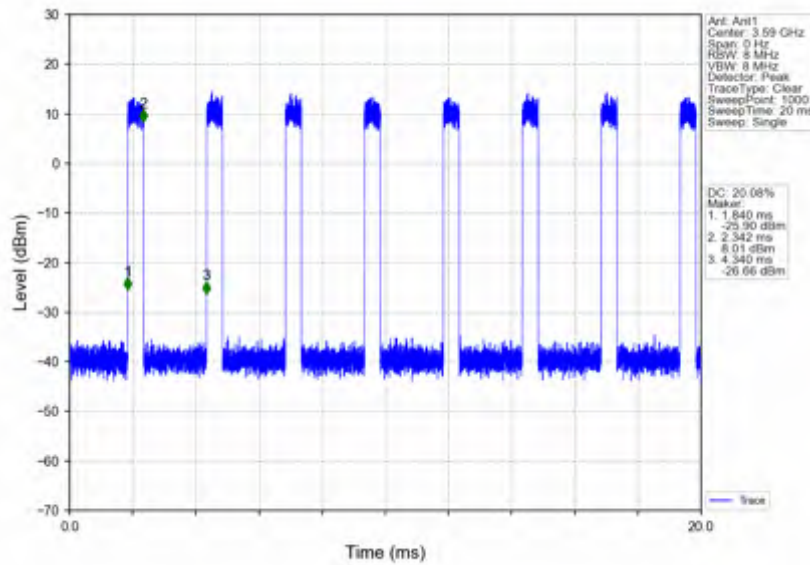


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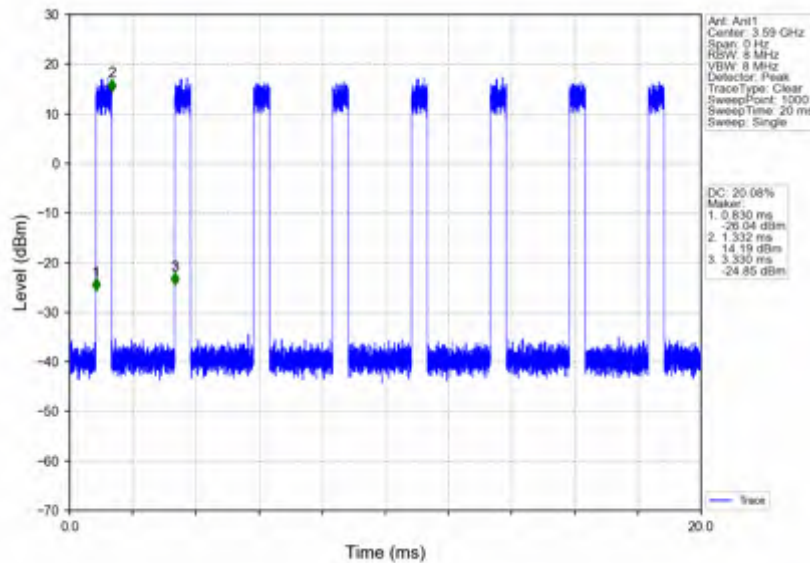
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3590.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3590.01MHz_Inner_Full

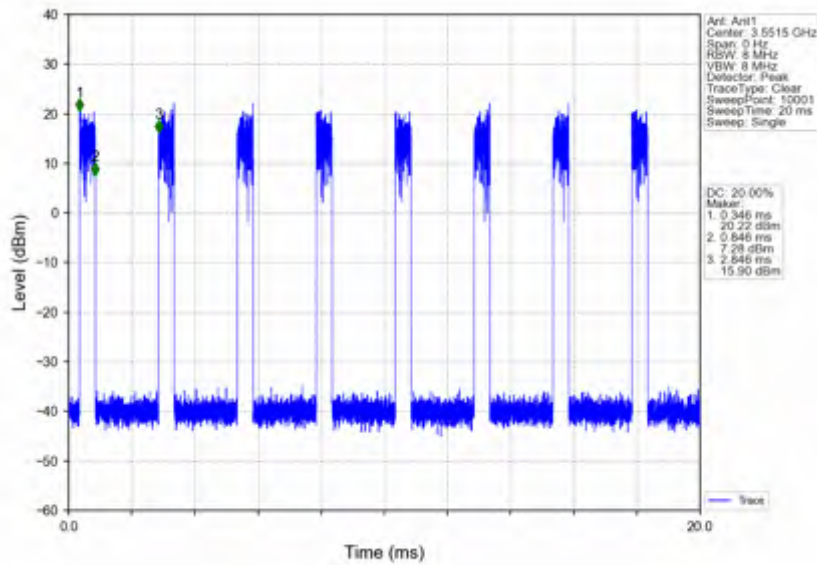


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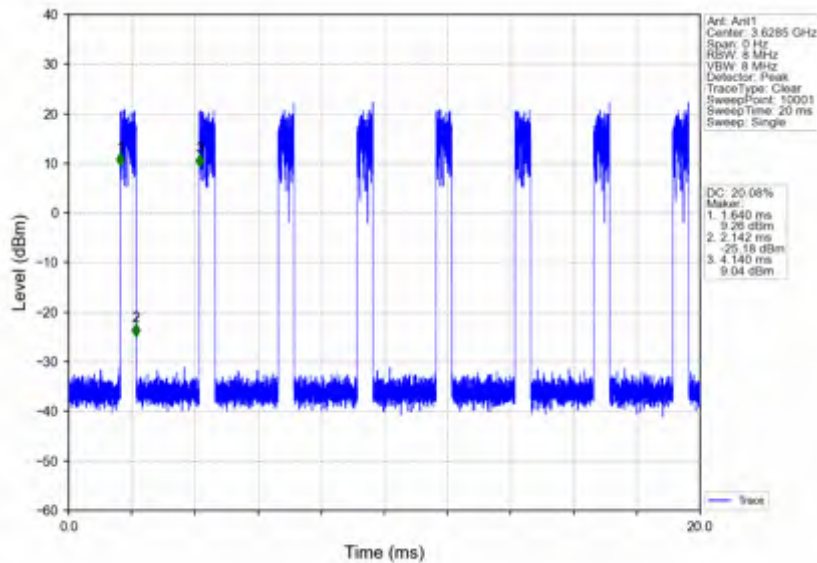
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3590.01MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3590.01MHz_Inner_1RB_Right

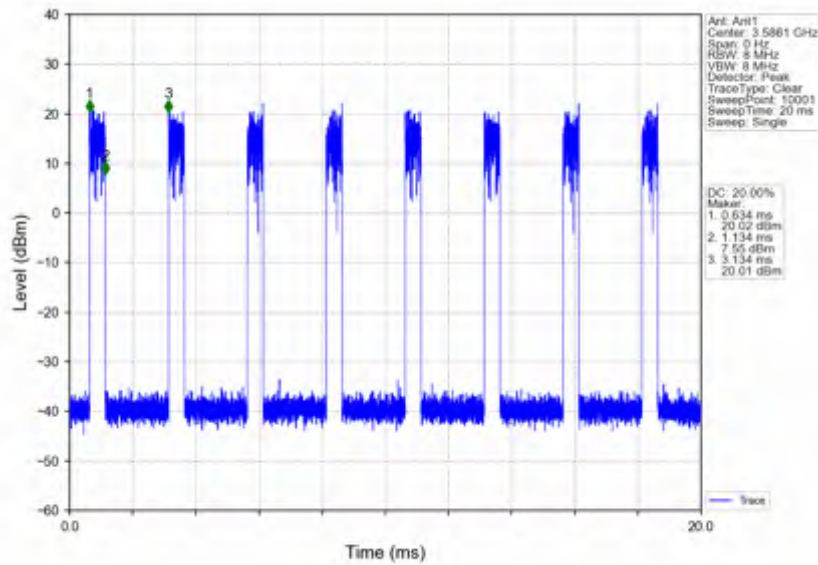


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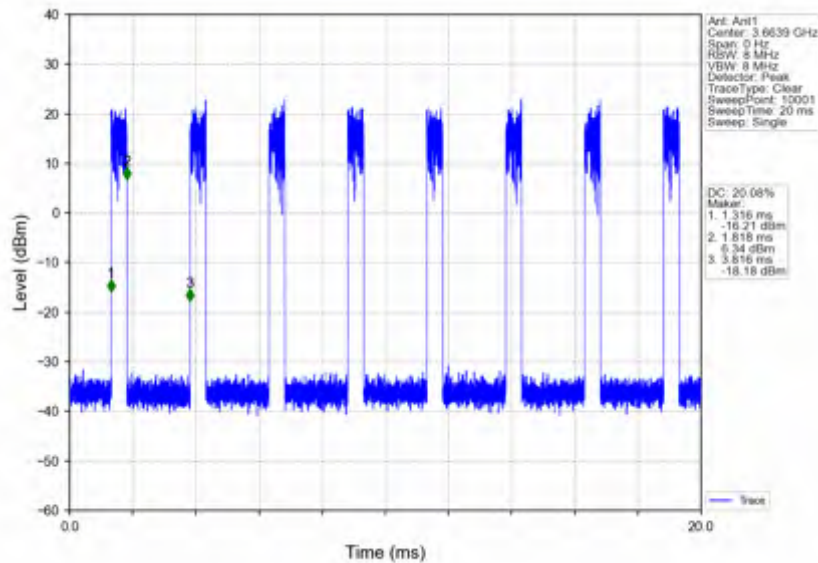
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Right

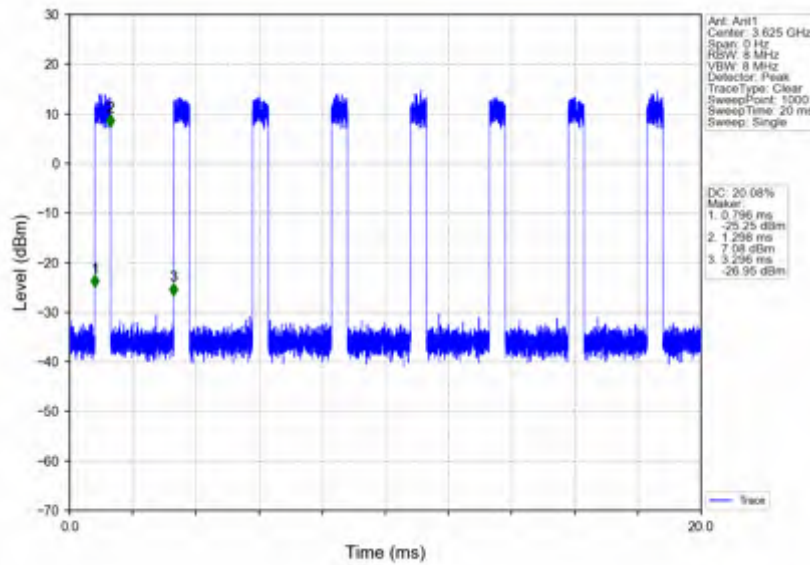


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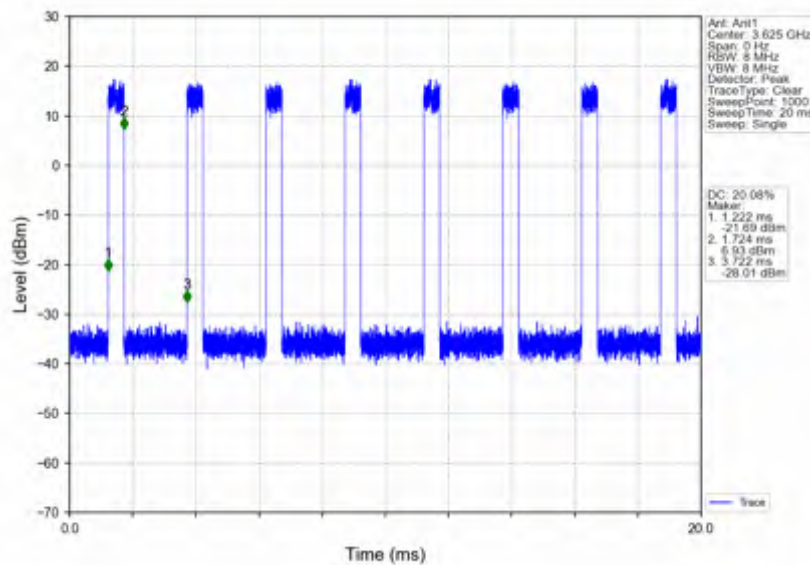
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full

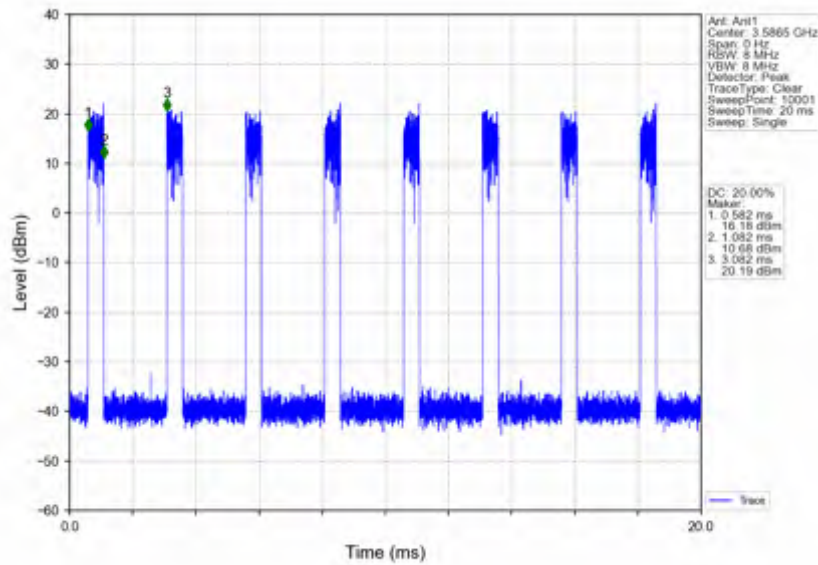


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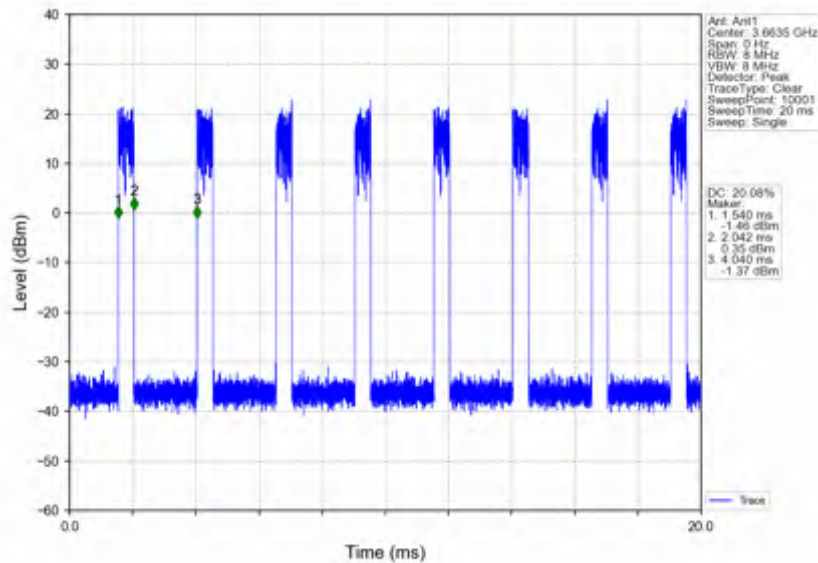
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Right

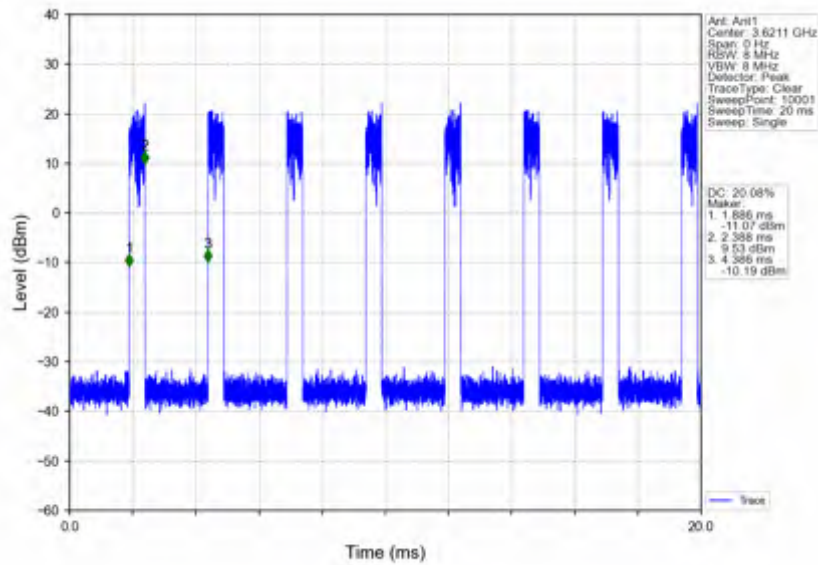


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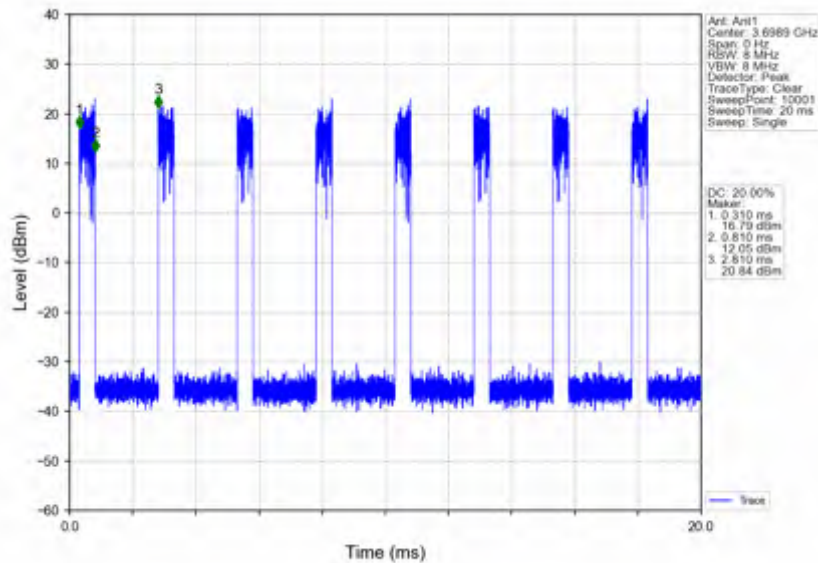
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3660MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3660MHz_Edge_1RB_Right

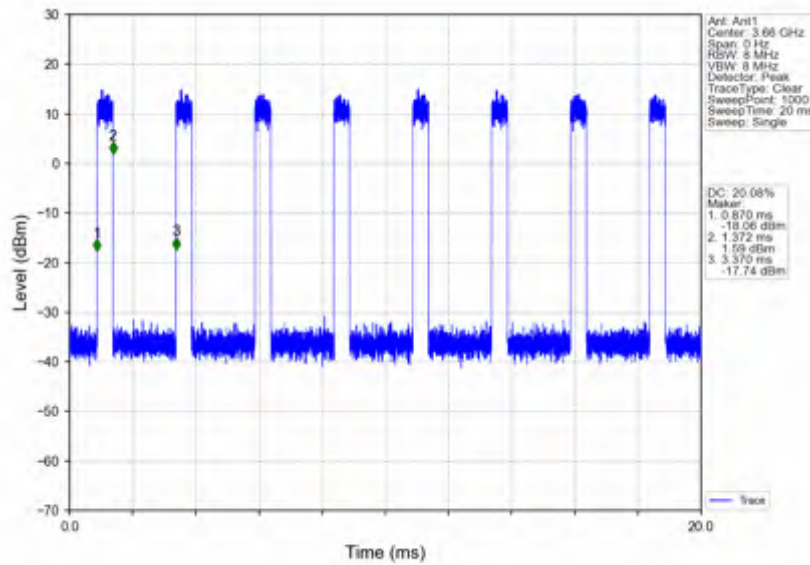


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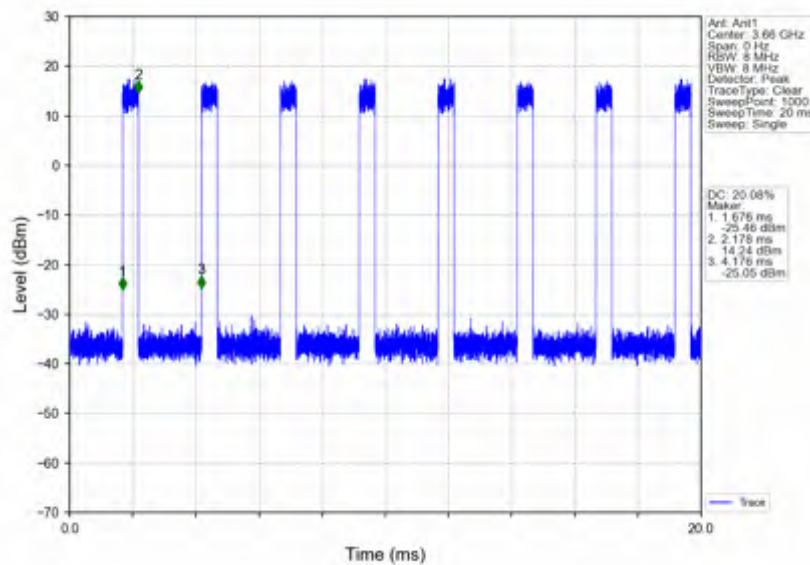
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3660MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM_256_QAM_3660MHz_Inner_Full



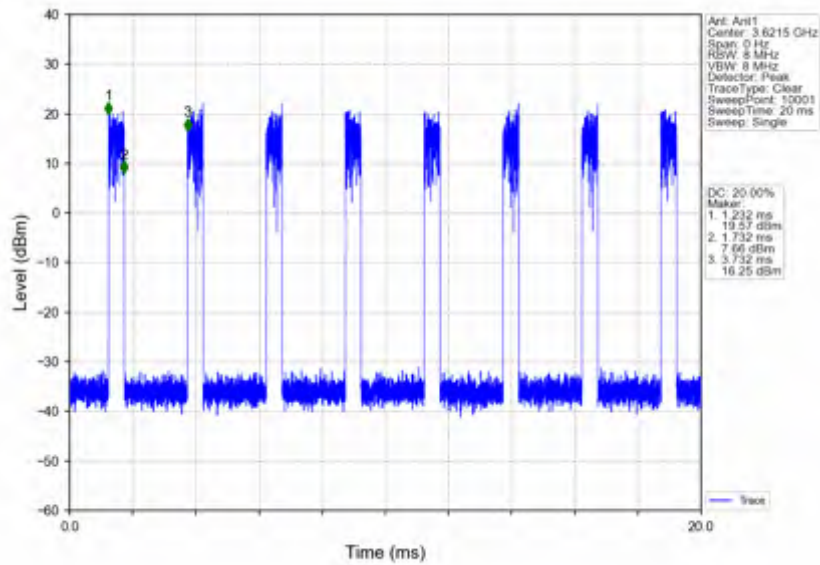
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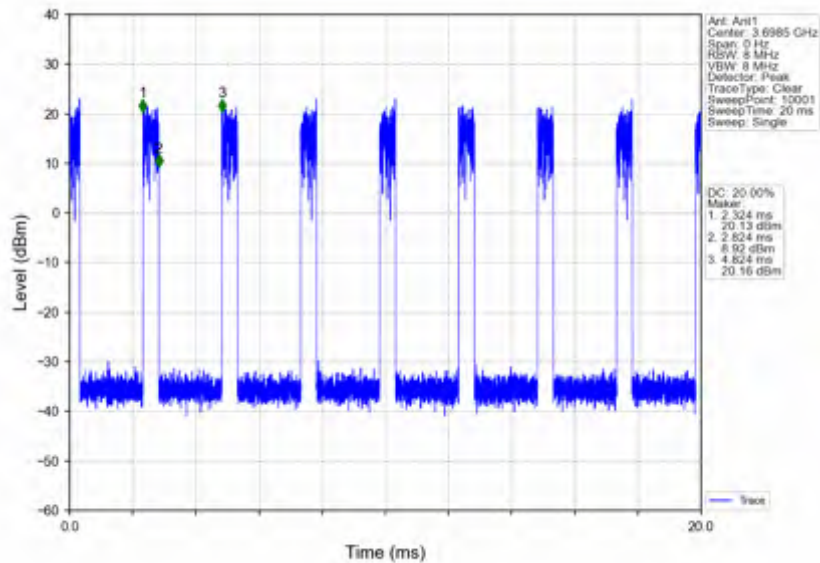
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n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3660MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3660MHz_Inner_1RB_Right



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1.18 30k_SISO_90MHz_NTNV

1.18.1 Test Result

5G NR n78d SCS=30kHz SISO 90MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
DFT-s-OFDM PI/2 BPSK	3595.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.504	2.500	20.16	6.96	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.06
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08
	3654.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.500	2.498	20.02	6.99	0.06
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
DFT-s-OFDM QPSK	3595.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.504	2.500	20.16	6.96	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
		Outer_Full	0.500	2.498	20.02	6.99	0.06
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
	3654.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.08
		Inner_Full	0.500	2.498	20.02	6.99	0.06
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
DFT-s-OFDM 16 QAM	3595.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.504	2.500	20.16	6.96	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.06	
		Inner_Full	0.502	2.500	20.08	6.97	0.08	
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00	
	3654.99		Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.504	2.500	20.16	6.96	0.00
	DFT-s-OFDM 64 QAM	3595.02	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
3624.99			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
3654.99			Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Edge_1RB_Right	0.500	2.498	20.02	6.99	0.06
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
DFT-s-OFDM 256 QAM	3595.02	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08	
		Outer_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_Full	0.502	2.500	20.08	6.97	0.00	
	3624.99		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08
	3654.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.504	2.500	20.16	6.96	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
CP-OFDM QPSK	3595.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Right	0.500	2.498	20.02	6.99	0.06	
		Outer_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_Full	0.502	2.498	20.10	6.97	0.06	
	3624.99		Inner_1RB_Left	0.500	2.498	20.02	6.99	0.06
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.16
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3654.99		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.08
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.08
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
CP-OFDM 16 QAM	3595.02	Outer_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_Full	0.504	2.500	20.16	6.96	0.00	
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.08	
		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.06
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.498	20.02	6.99	0.06
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3654.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.08
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
	CP-OFDM 64 QAM	3595.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
3624.99			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
3654.99			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
CP-OFDM 256 QAM		3595.02	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.504	2.500	20.16	6.96	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.08
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.06
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.498	20.02	6.99	0.06
	3654.99	Edge_1RB_Left	0.502	2.502	20.06	6.98	0.02
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.504	2.500	20.16	6.96	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.498	20.02	6.99	0.06

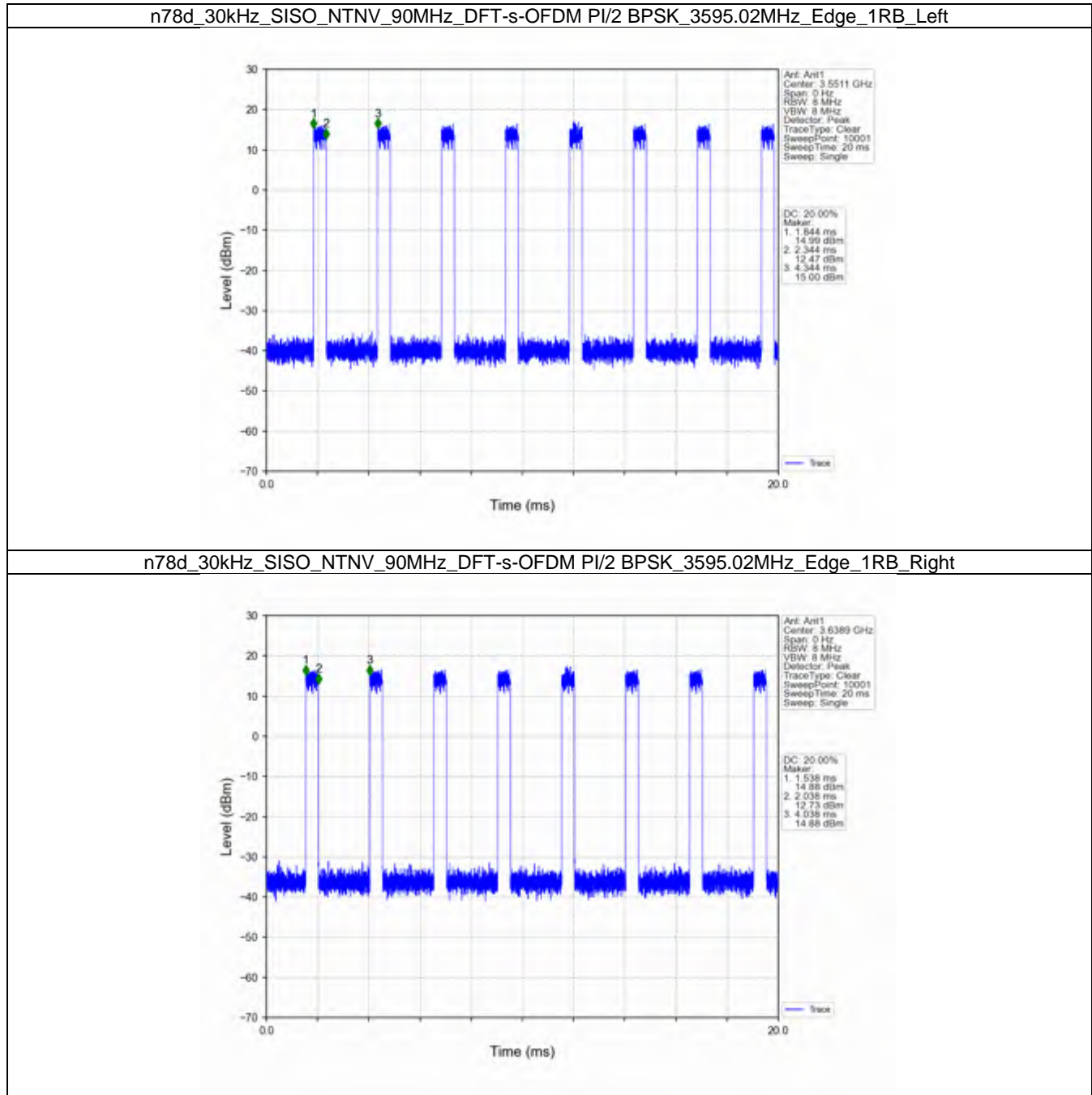


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1.18.2 Test Graph



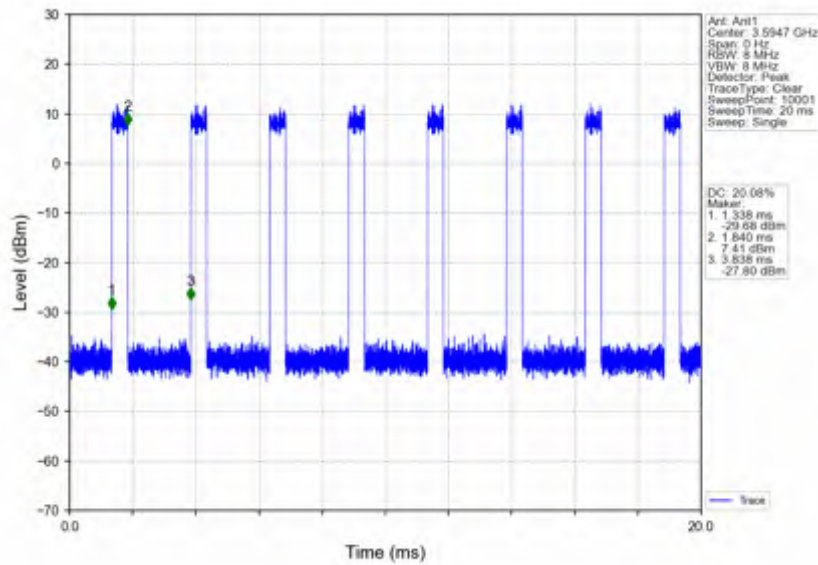
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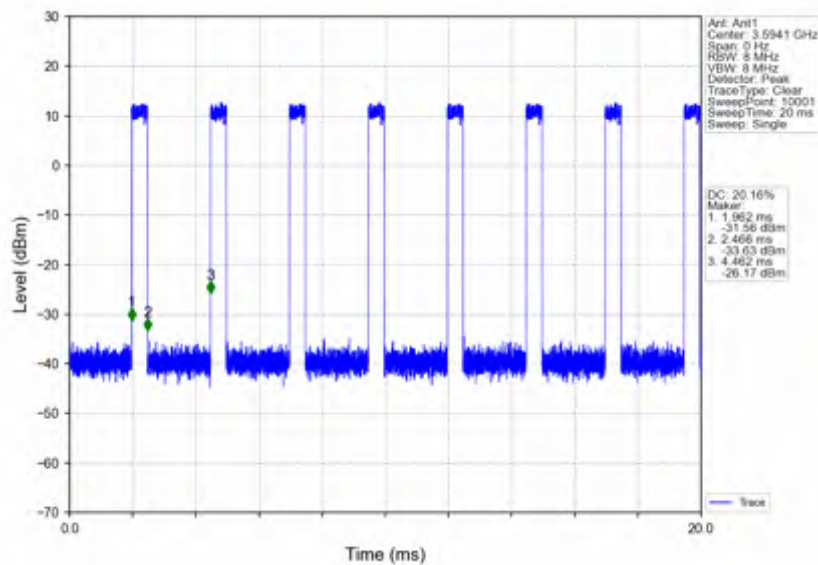
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3595.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3595.02MHz_Inner_Full



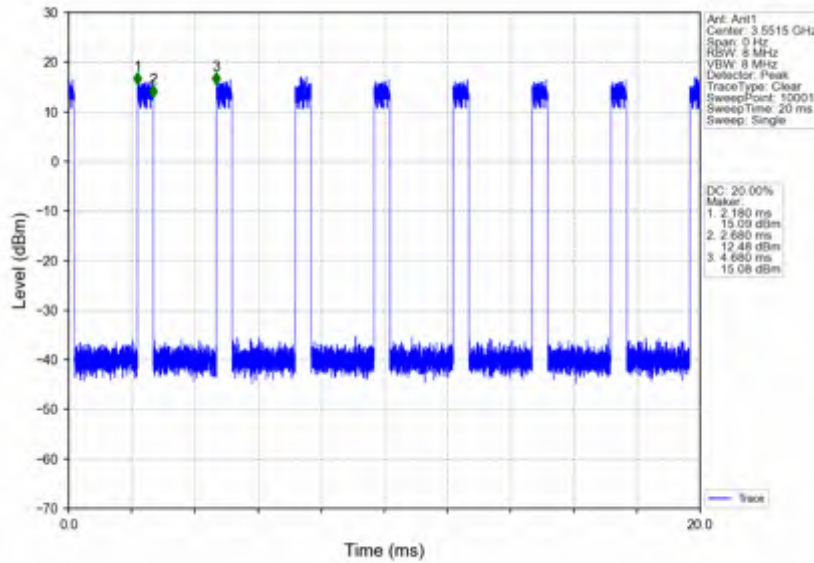
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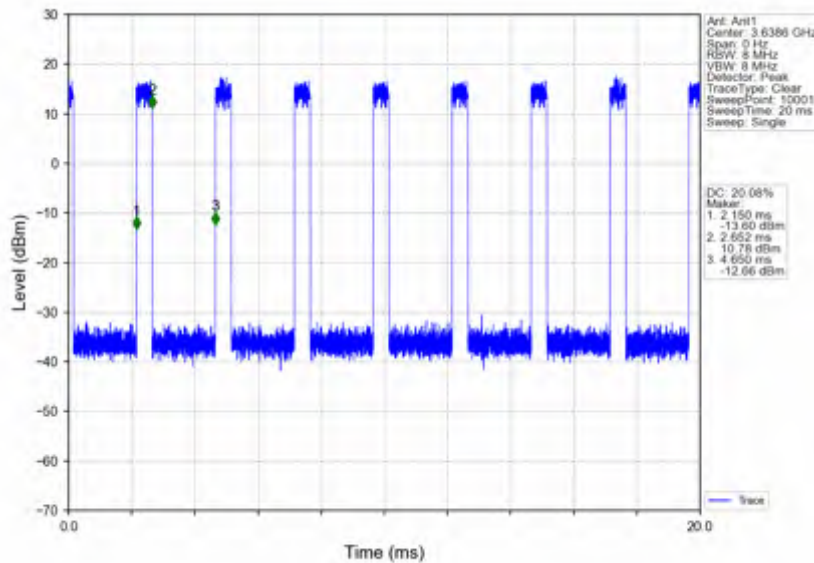
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3595.02MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3595.02MHz_Inner_1RB_Right

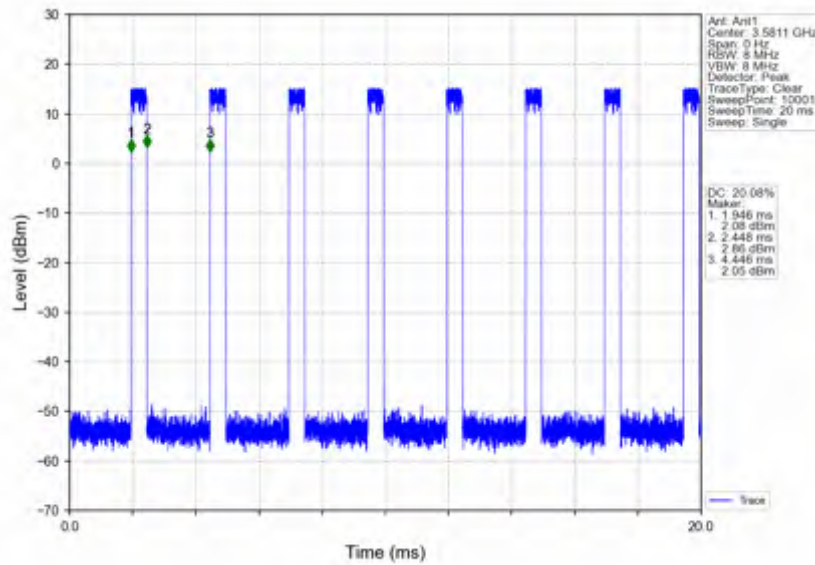


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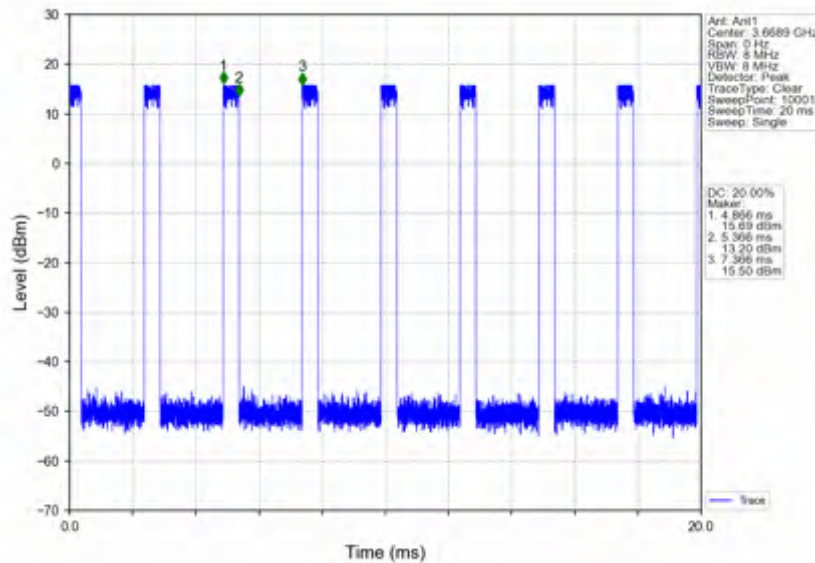
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Right

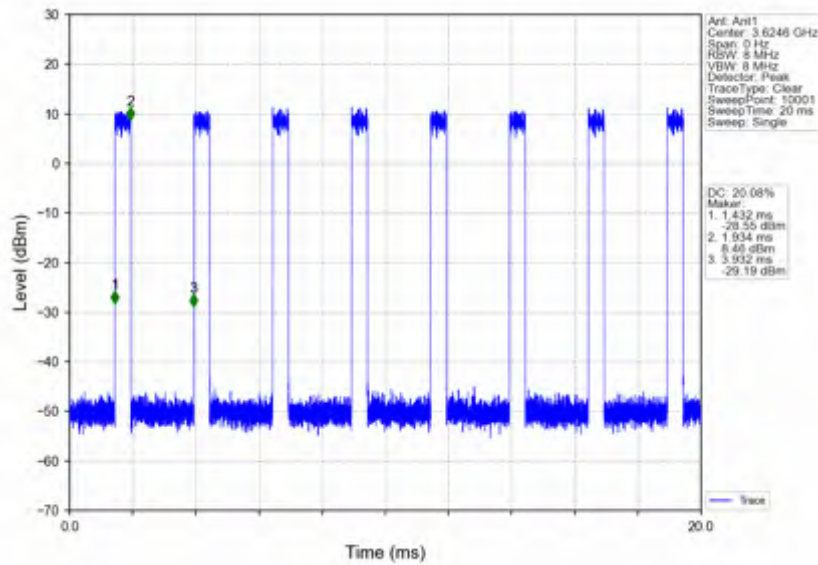


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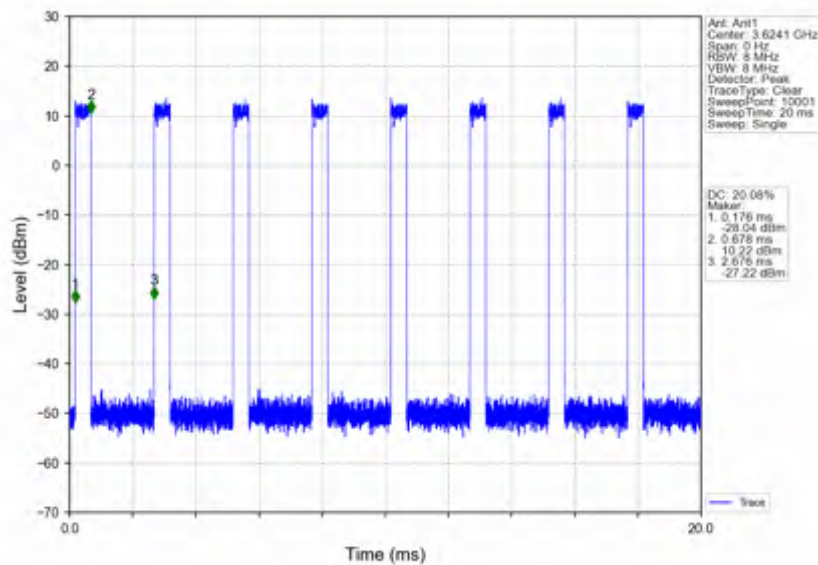
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_Full



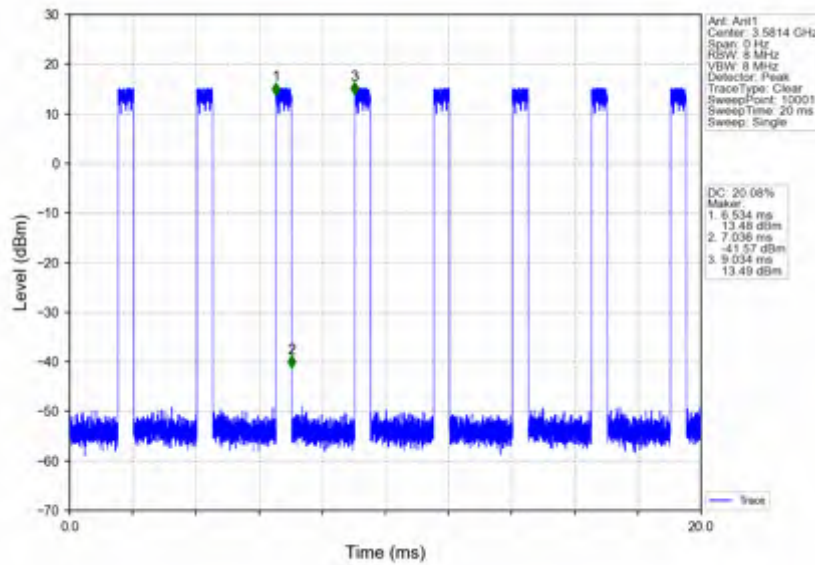
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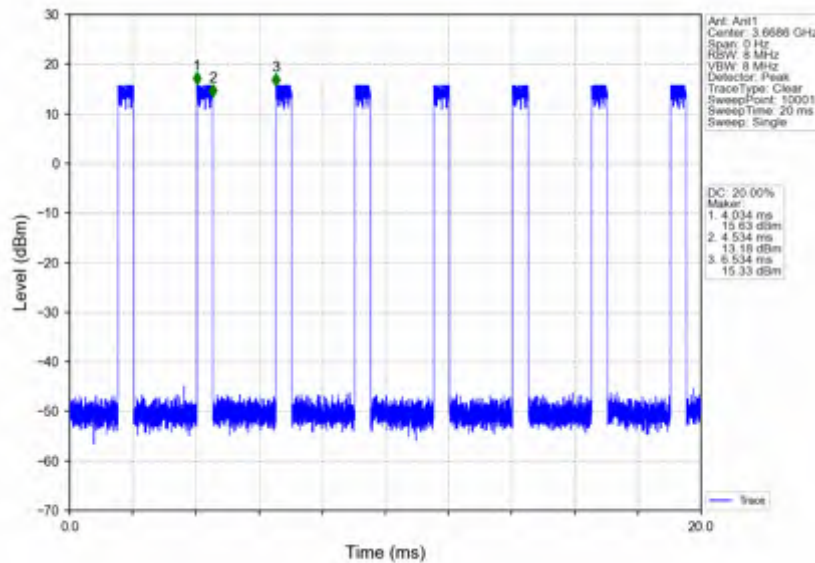
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_1RB_Right

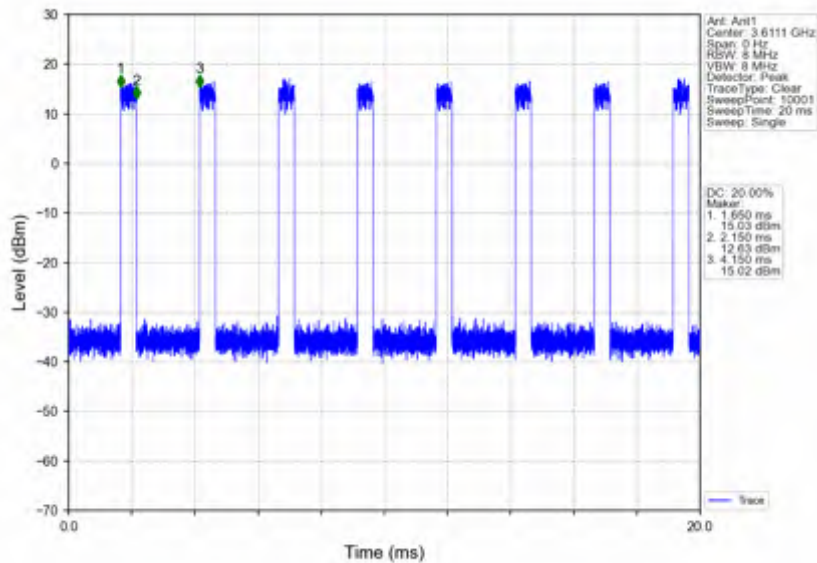


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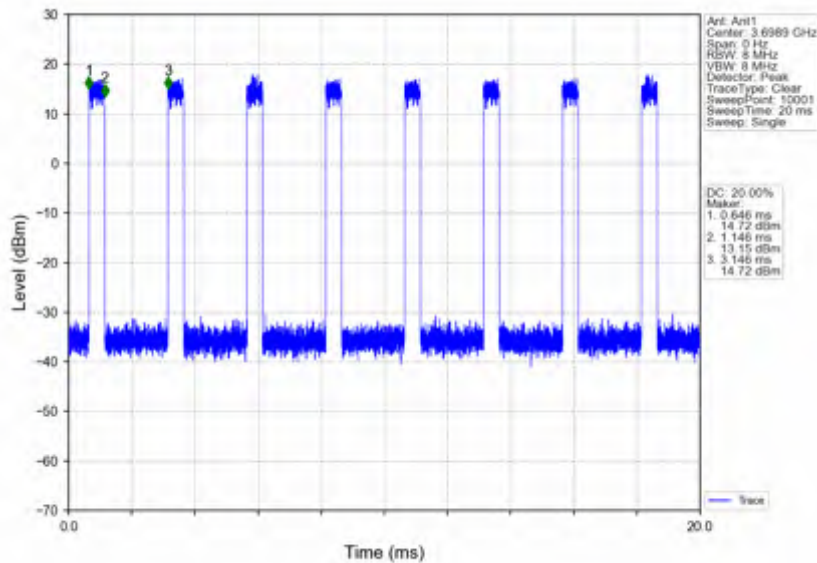
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3654.99MHz_Edge_1RB_Right



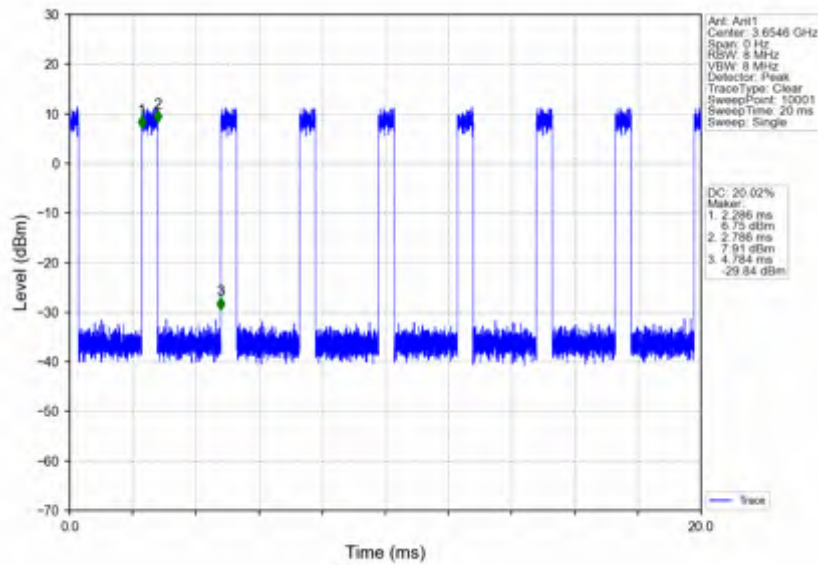
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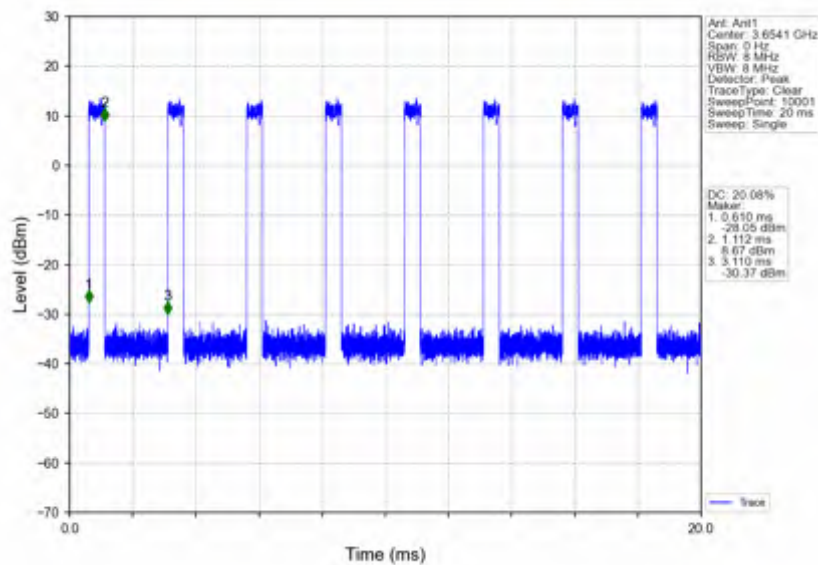
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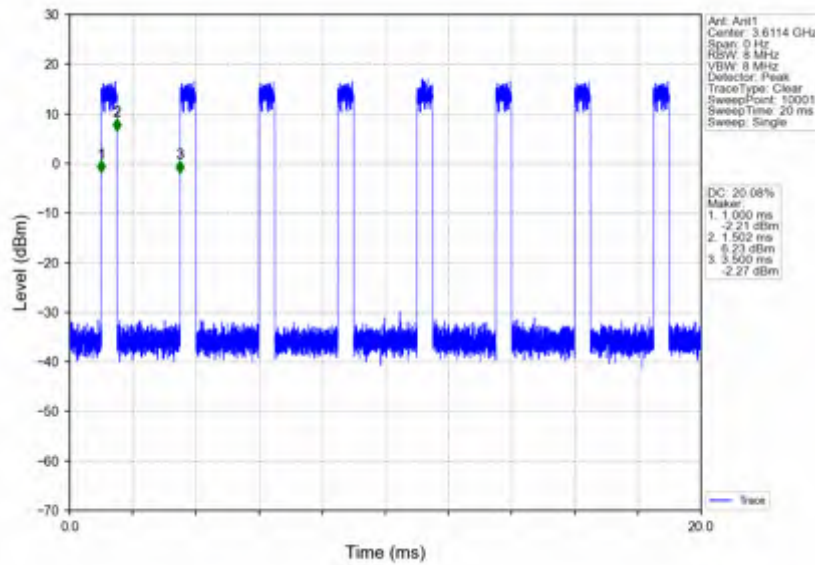
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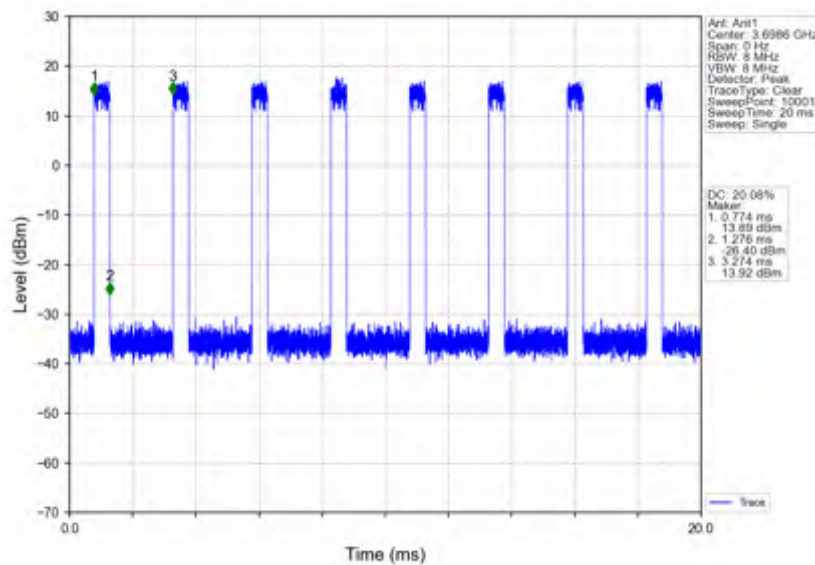
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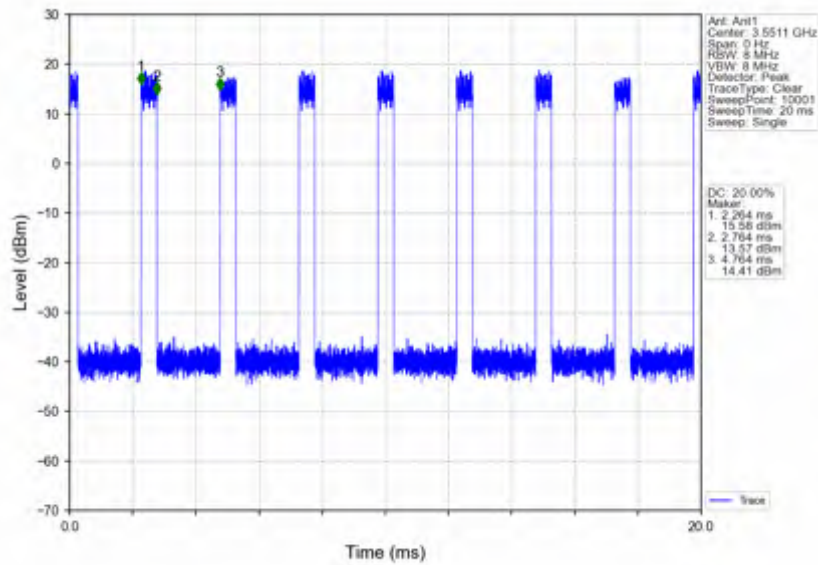
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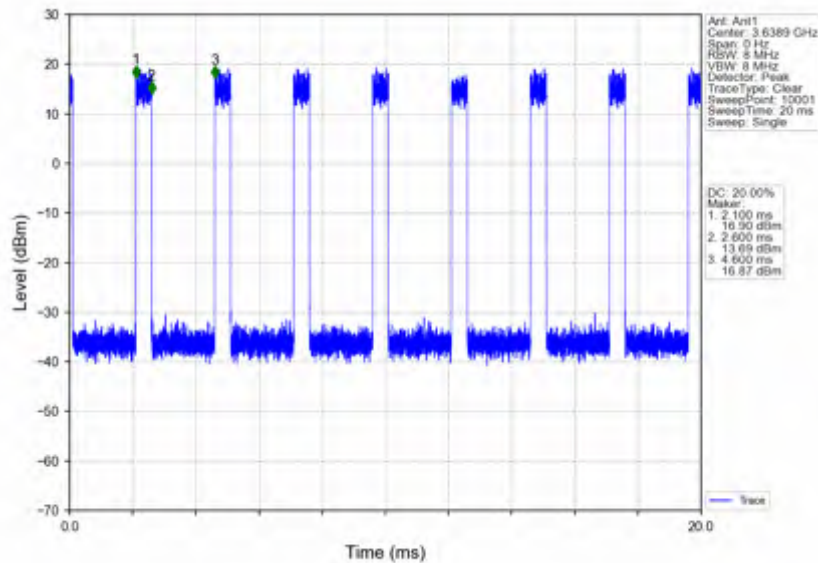
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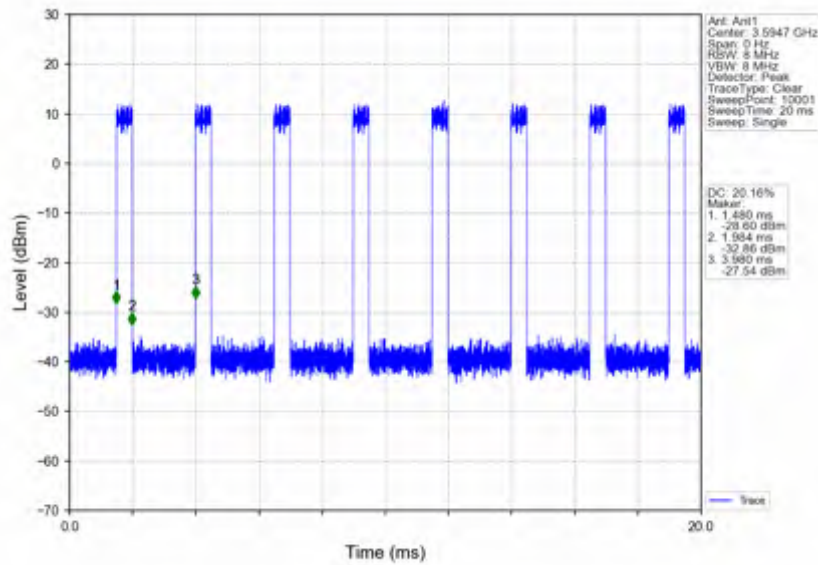
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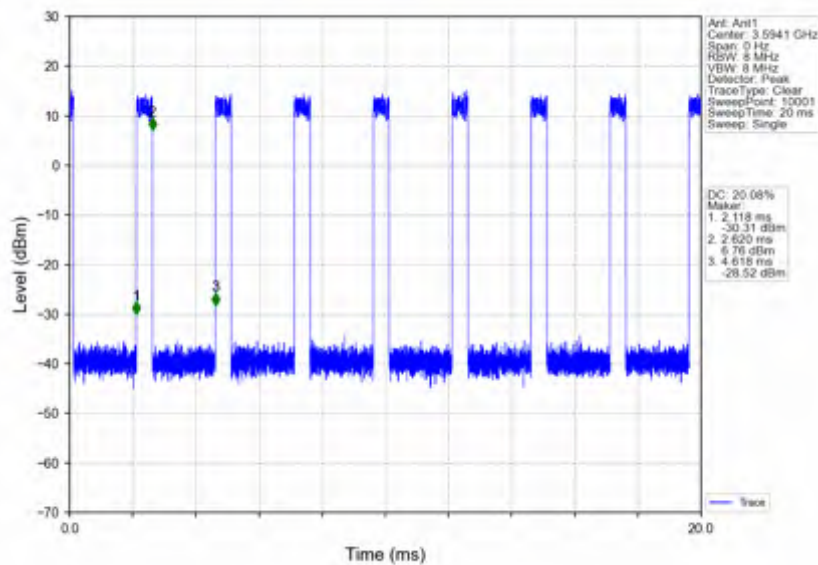
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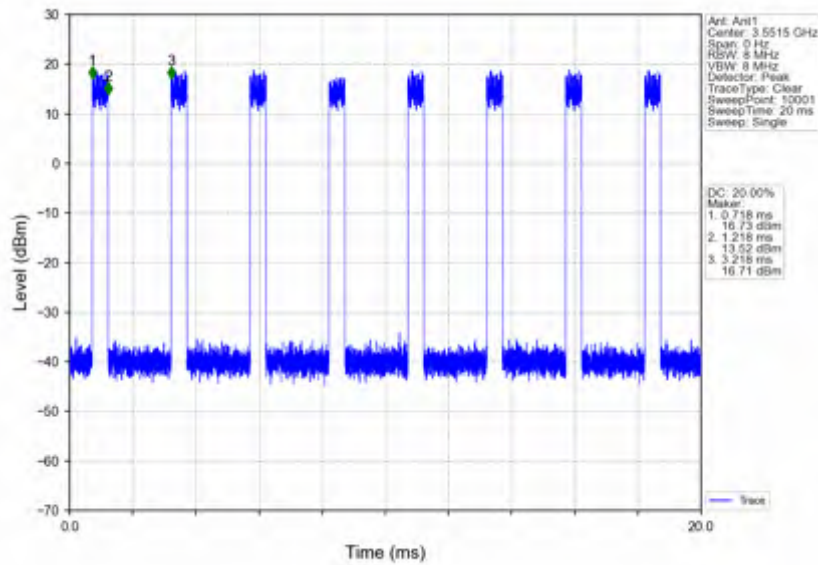
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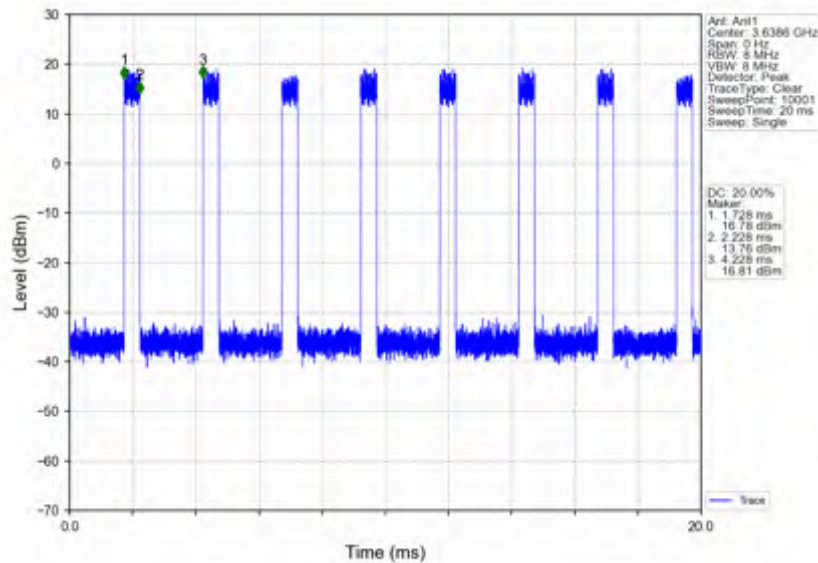
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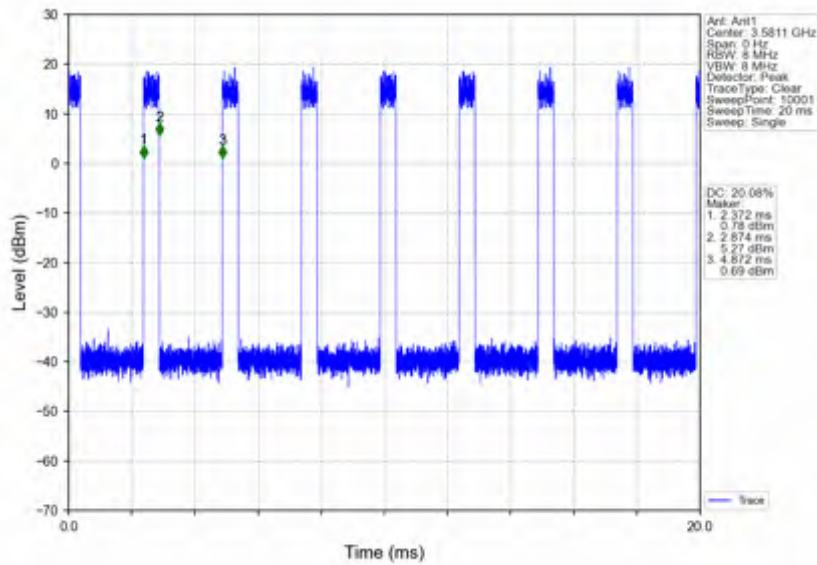


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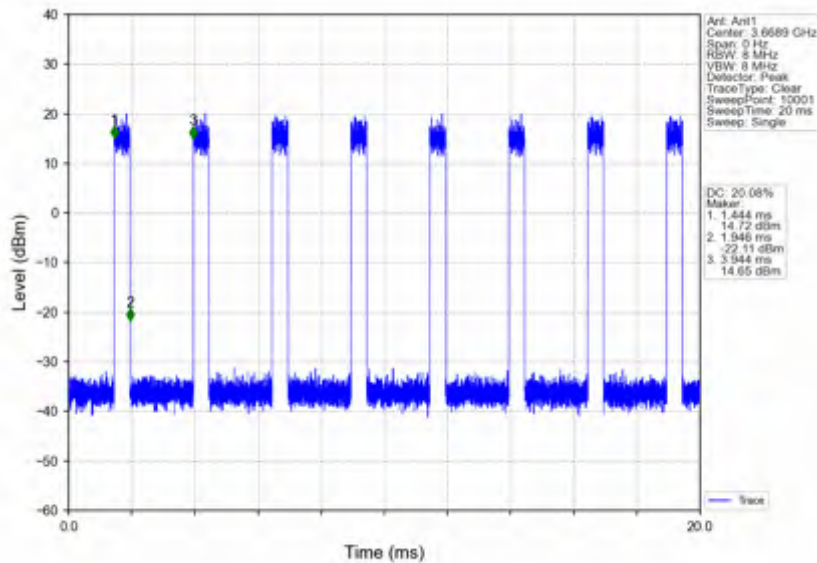
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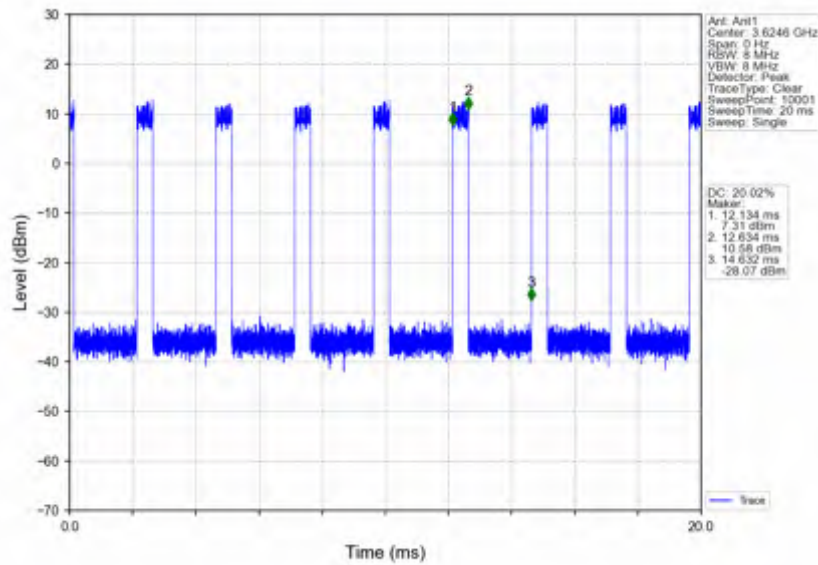


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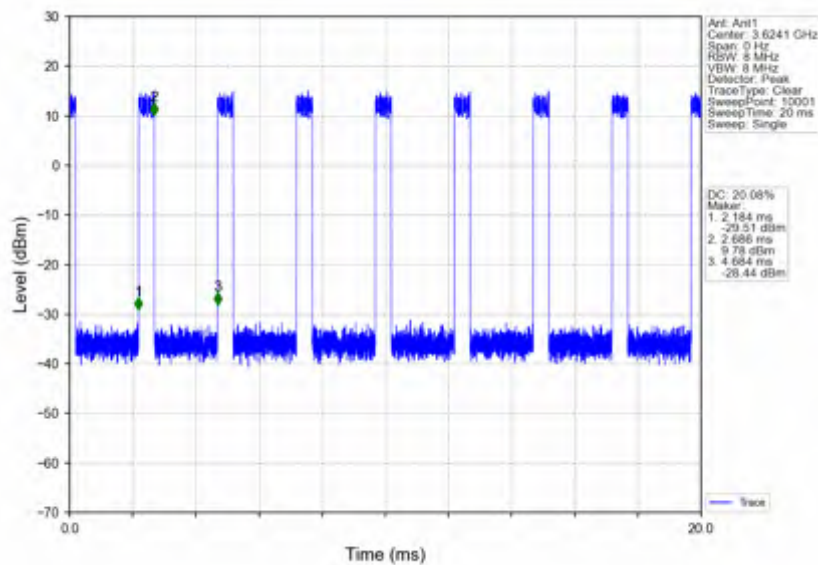
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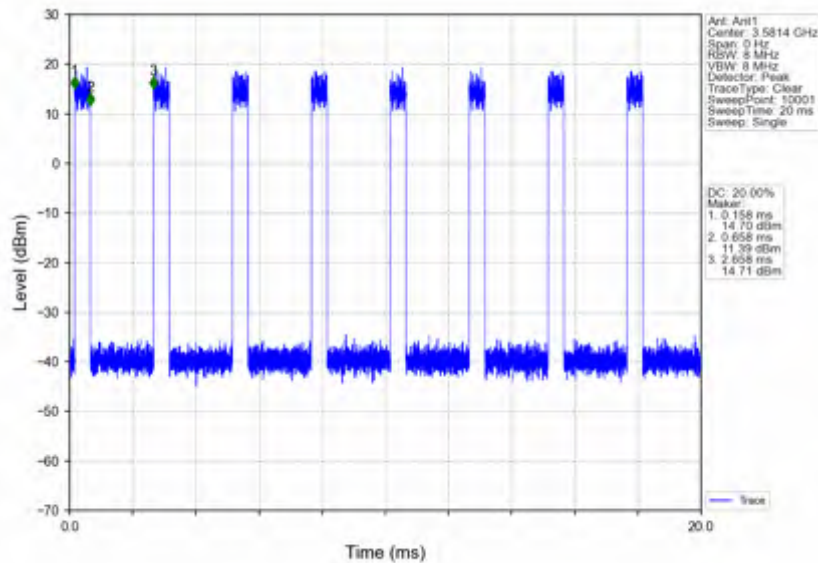


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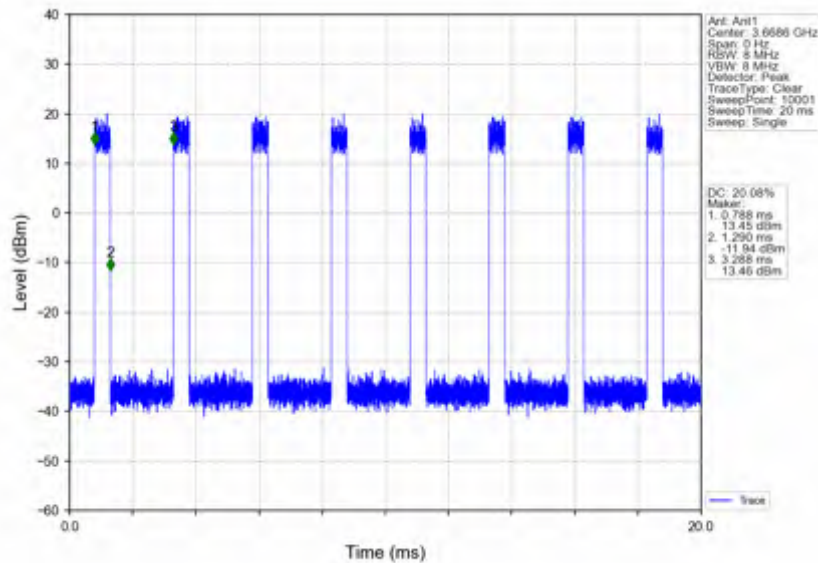
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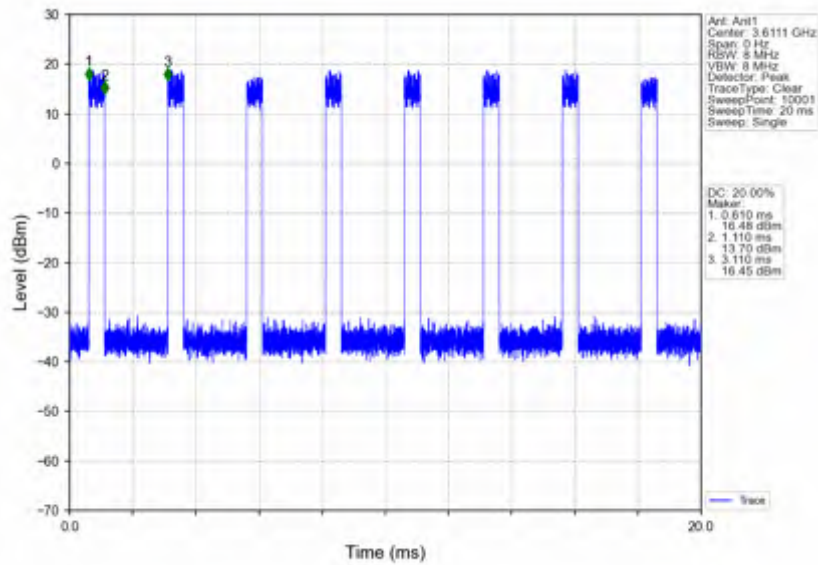


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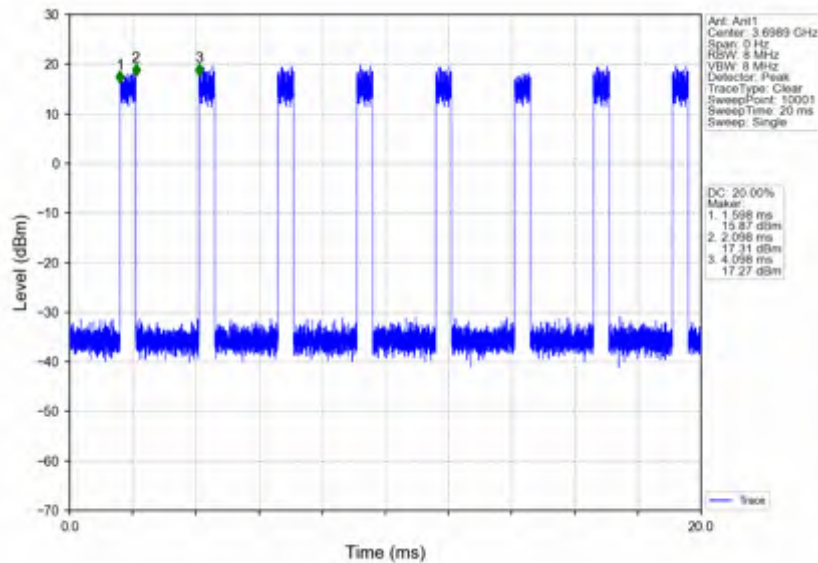
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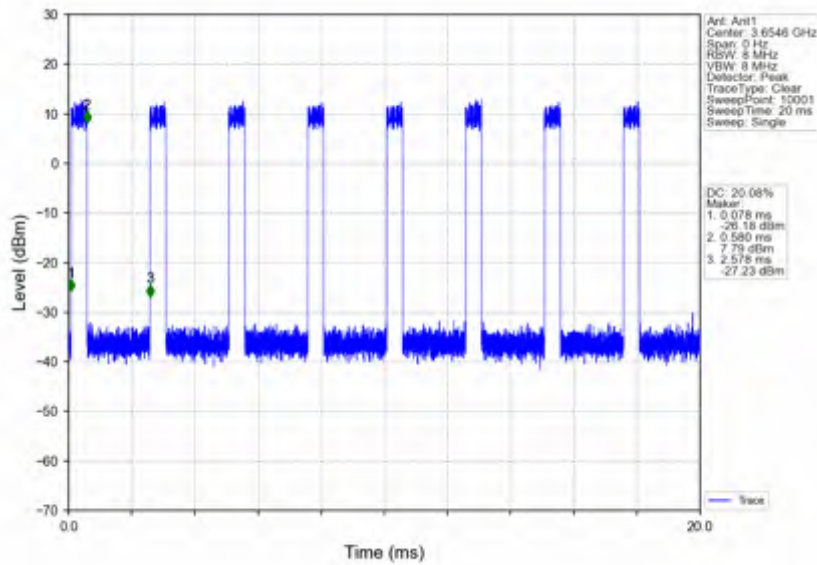


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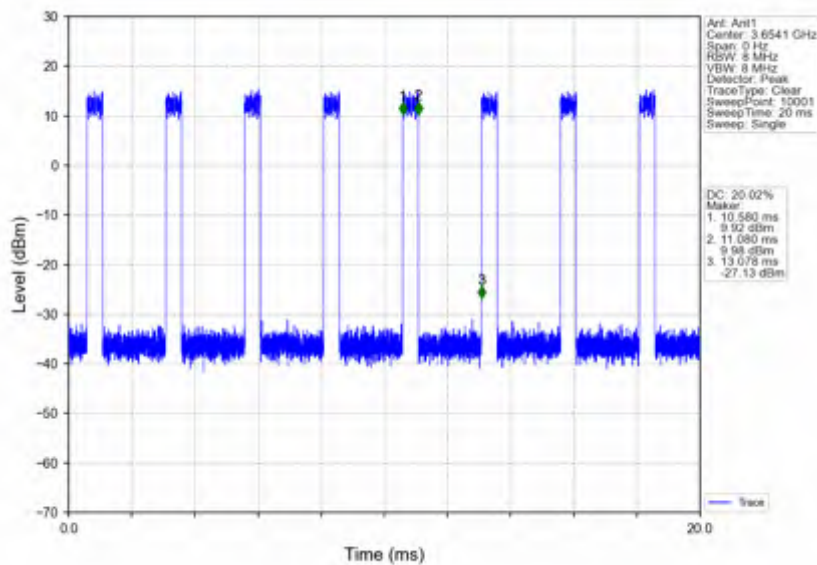
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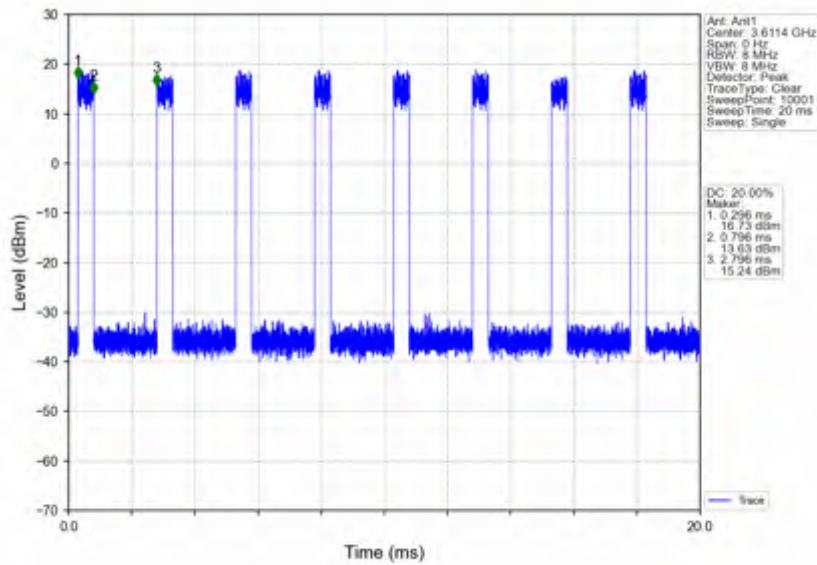


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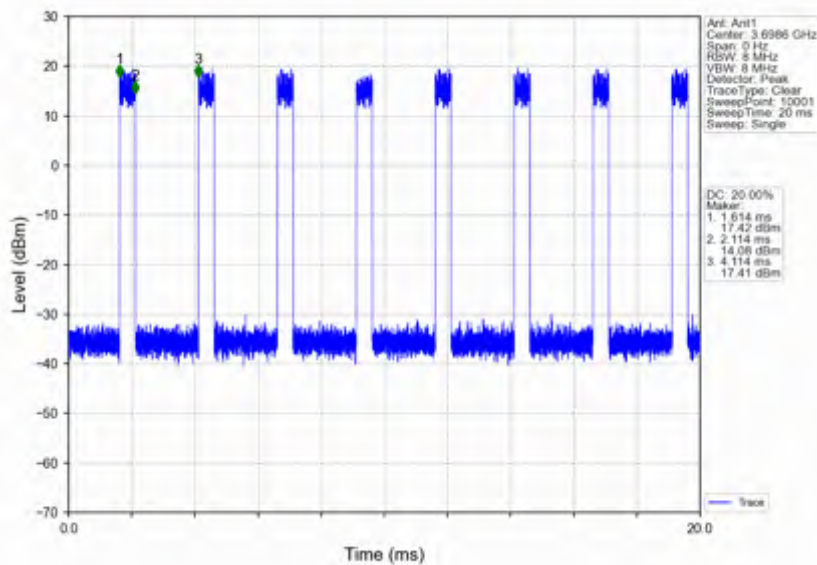
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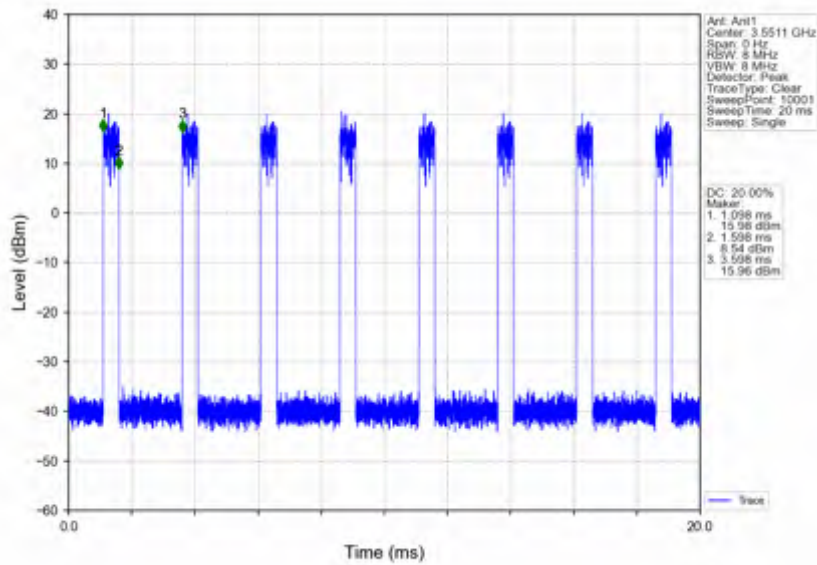


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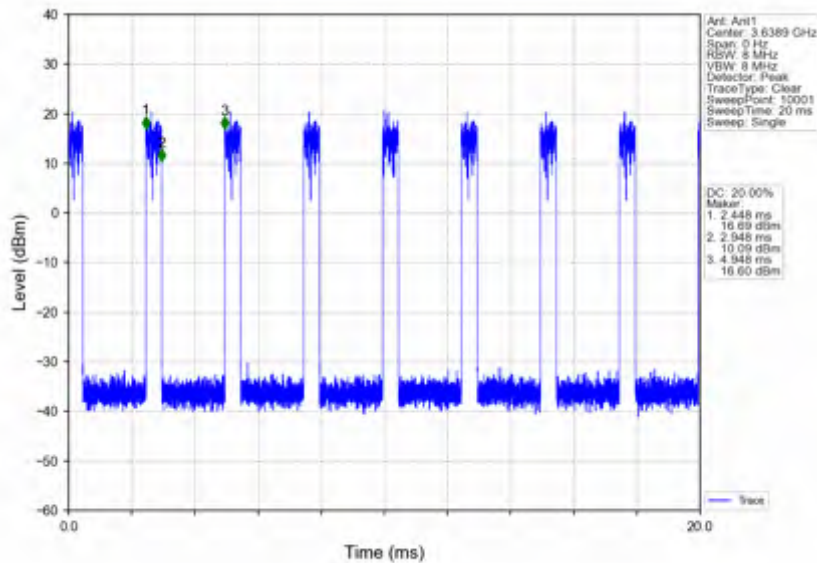
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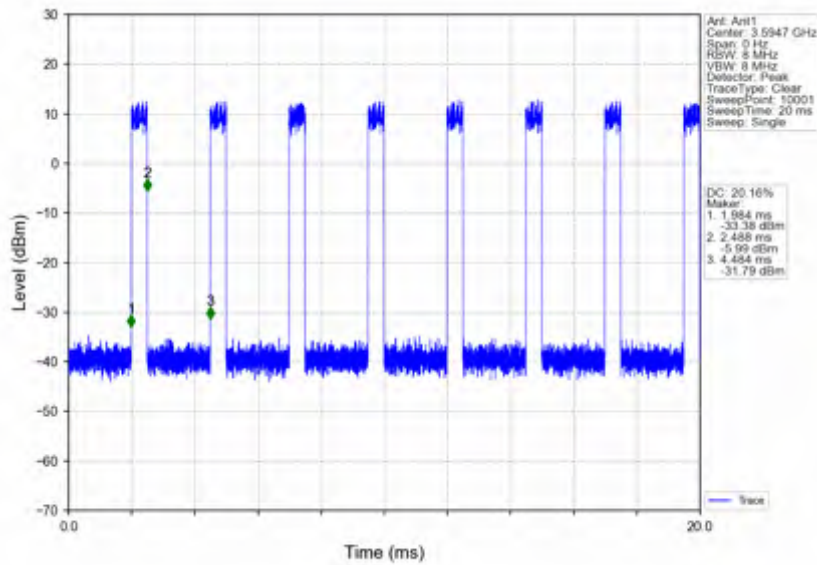
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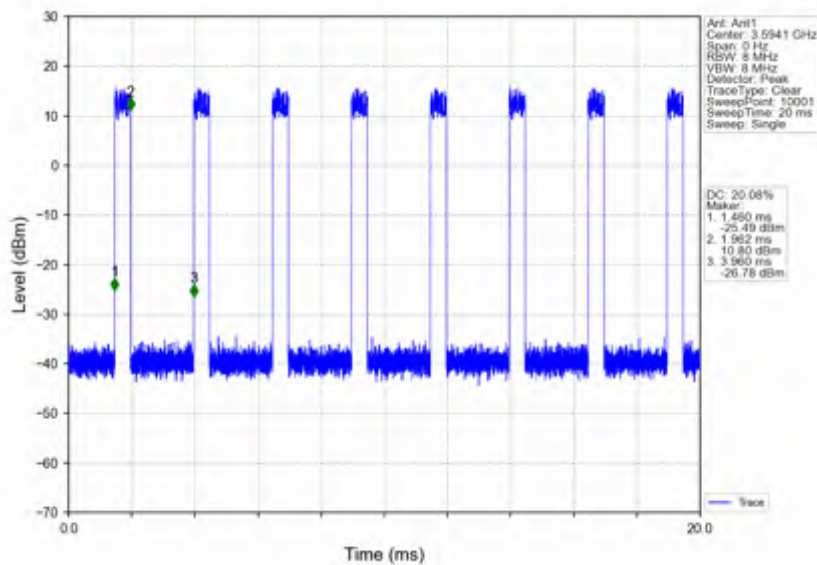
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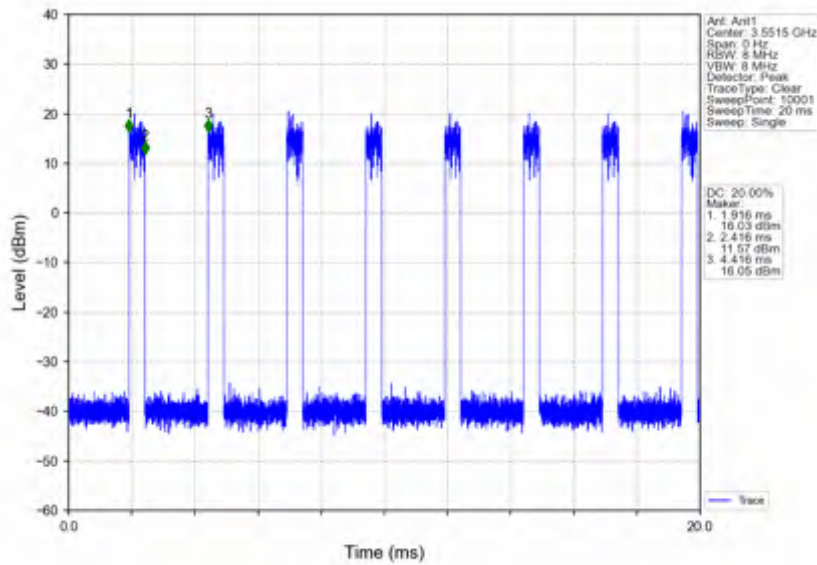
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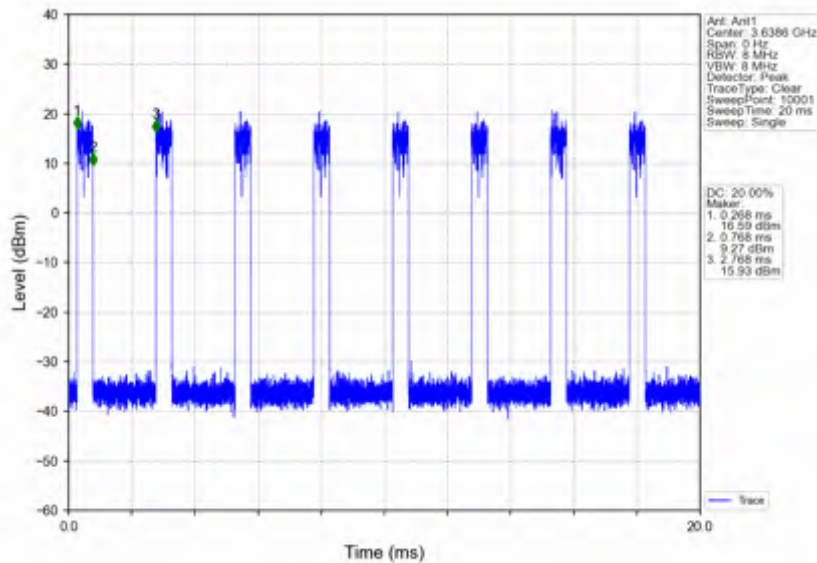
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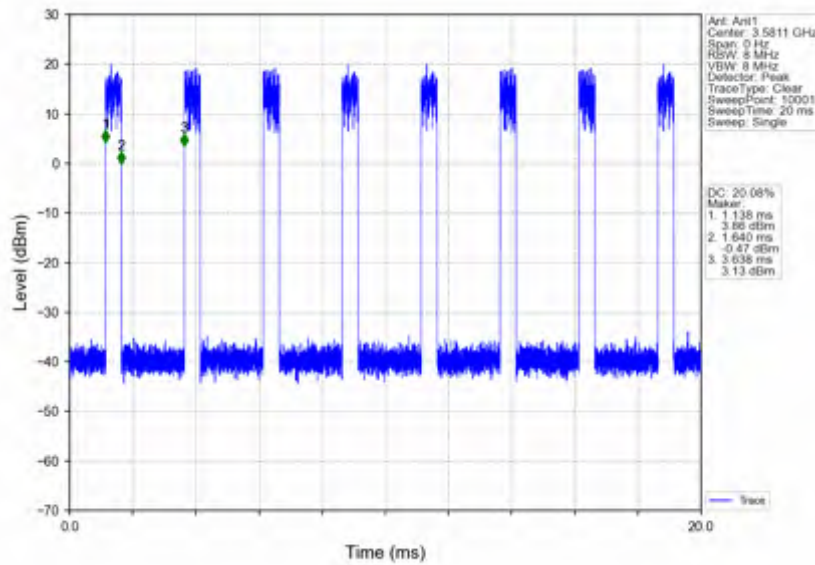
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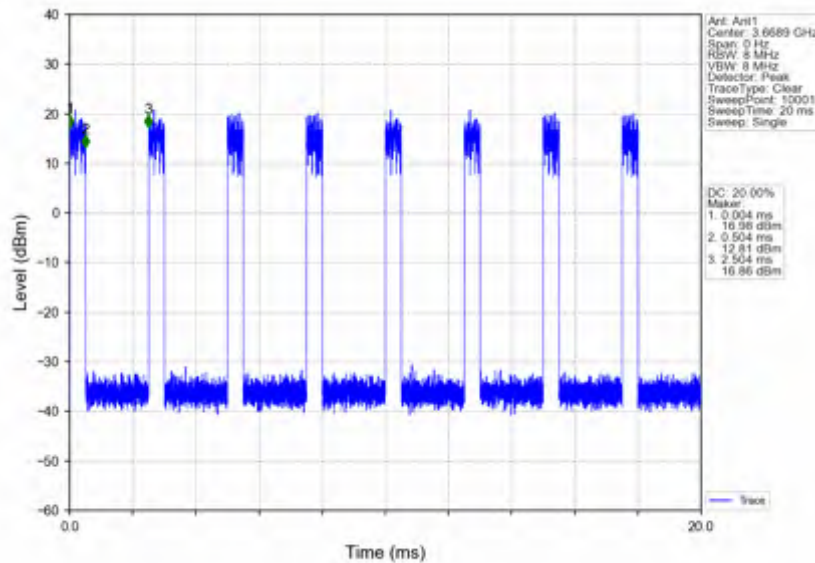
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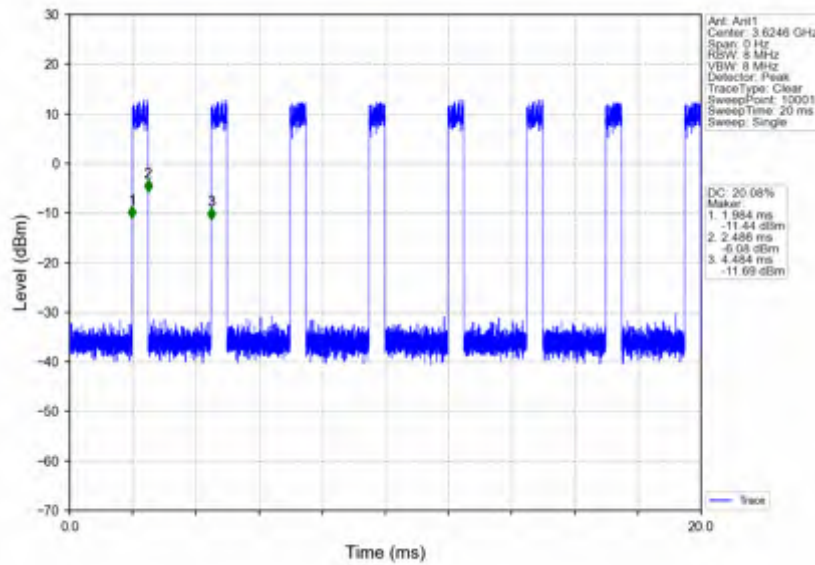


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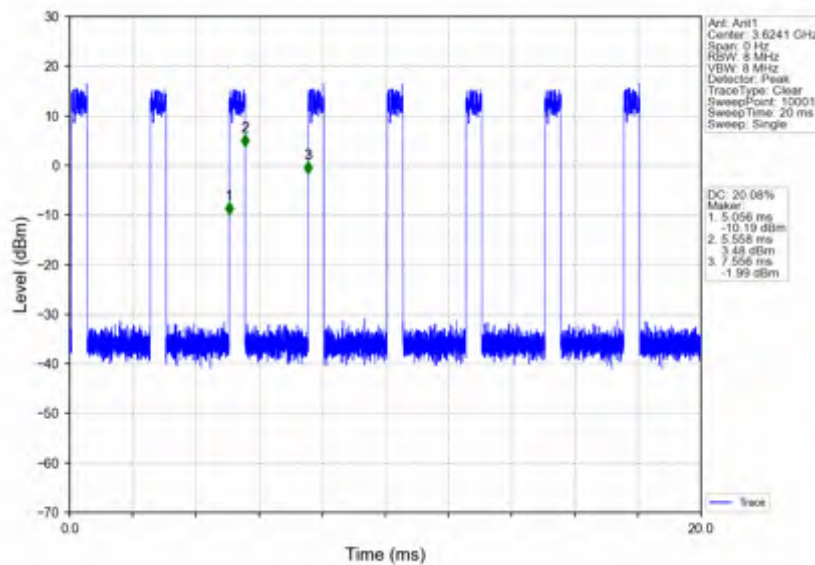
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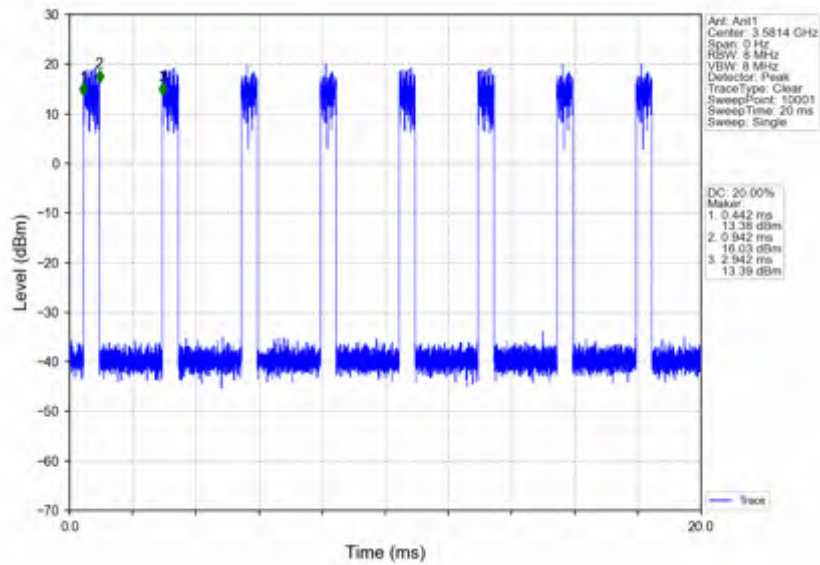
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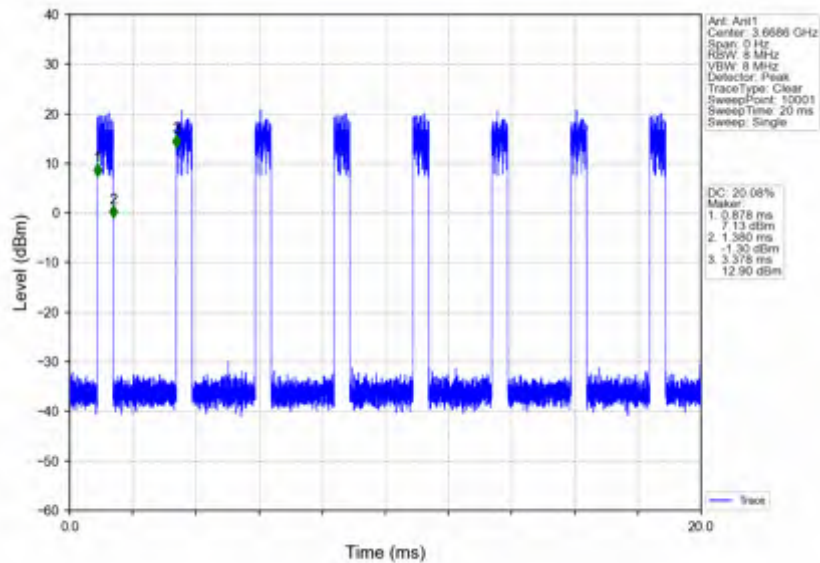
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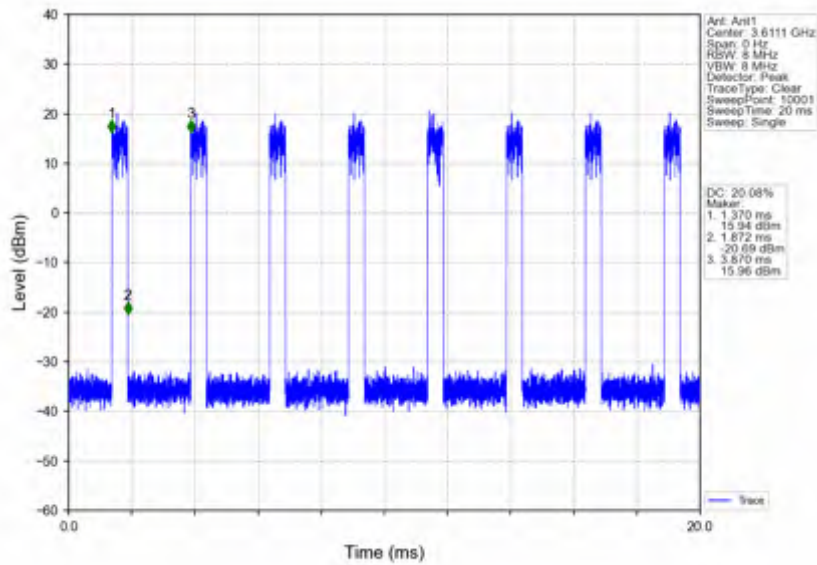
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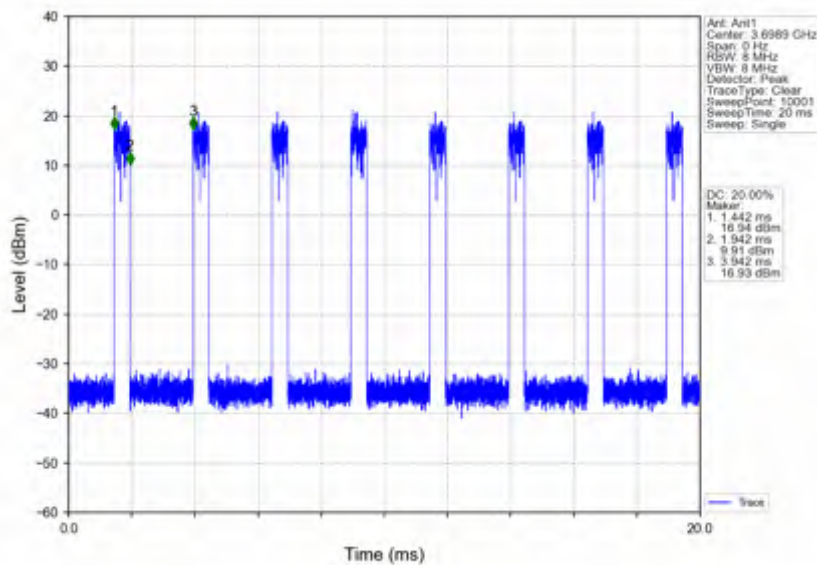
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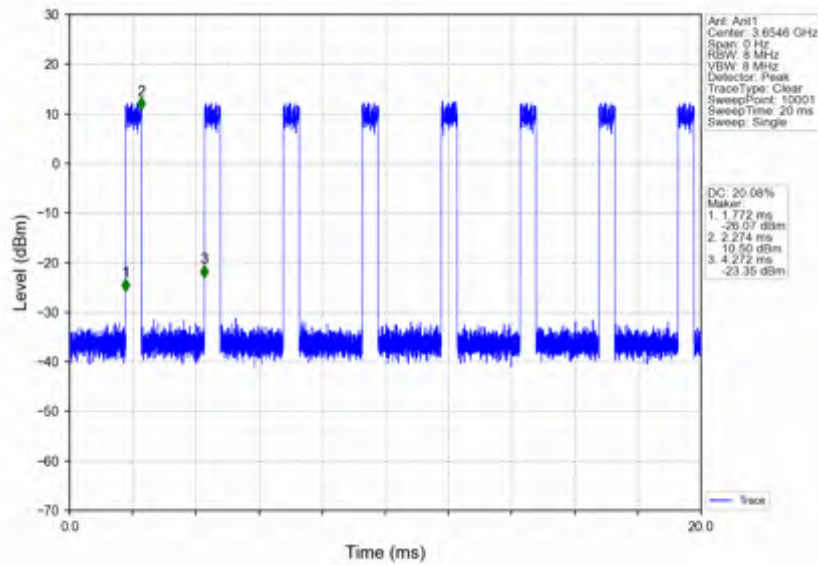
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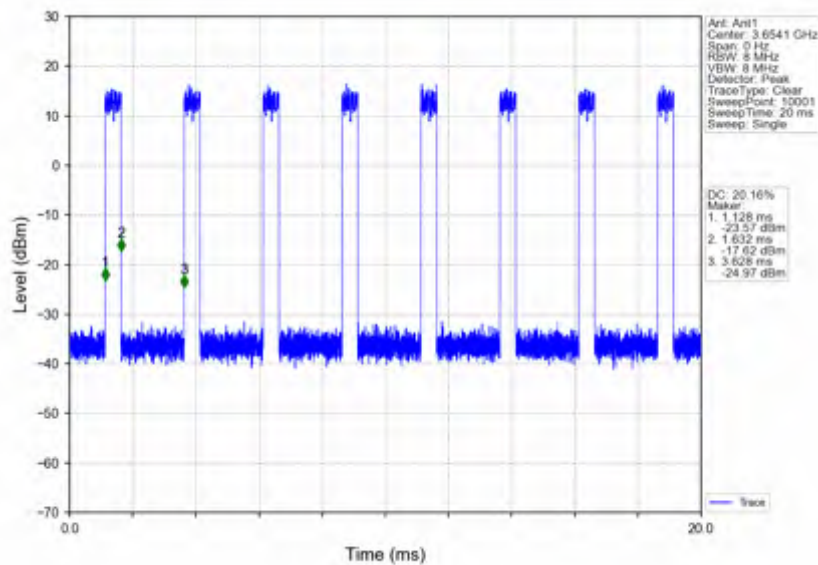
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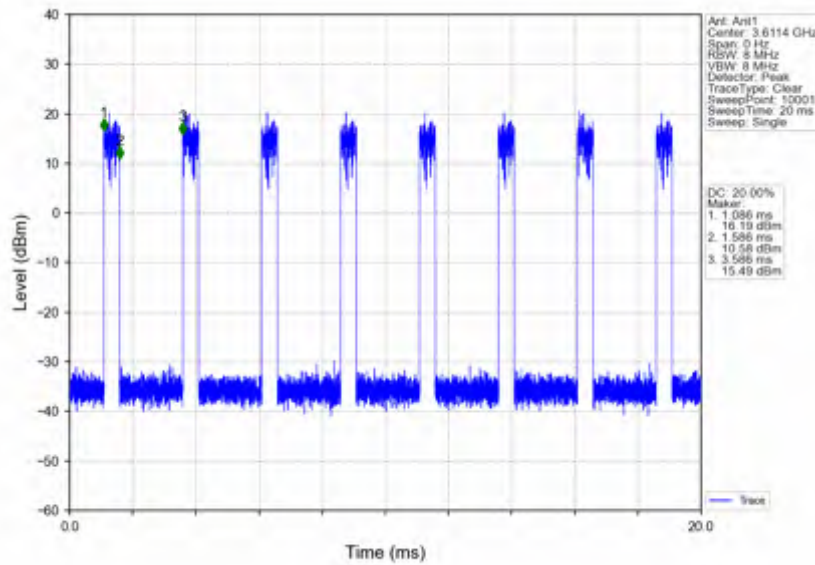


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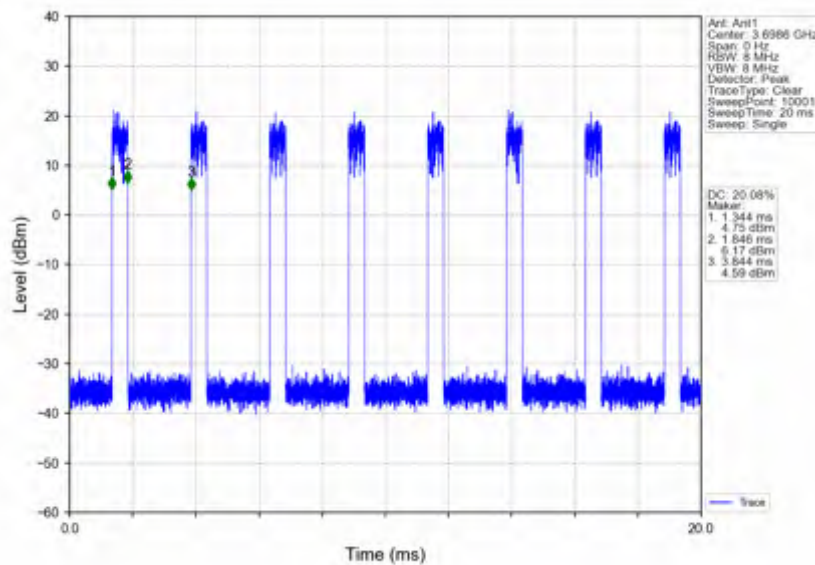
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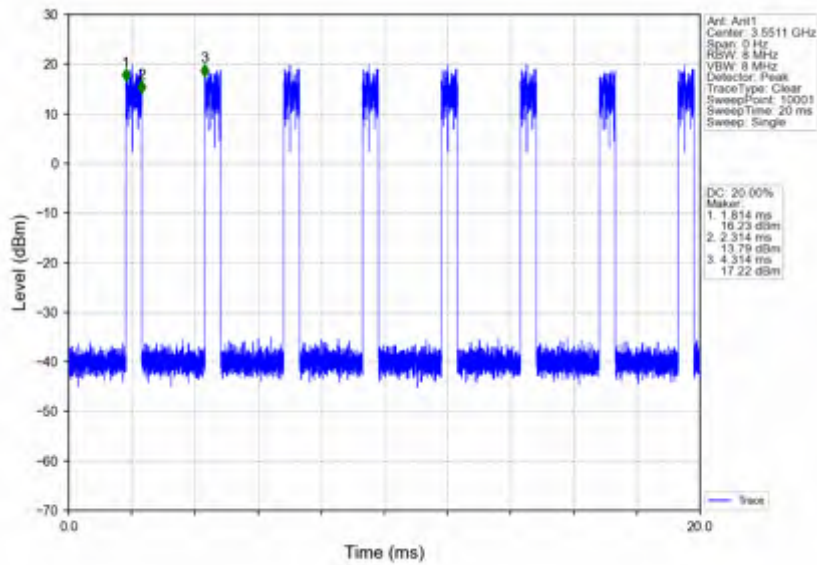


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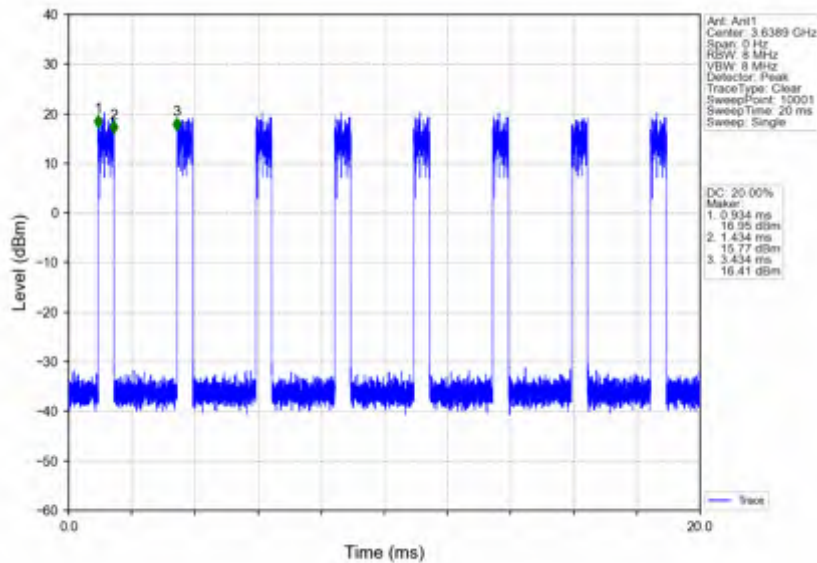
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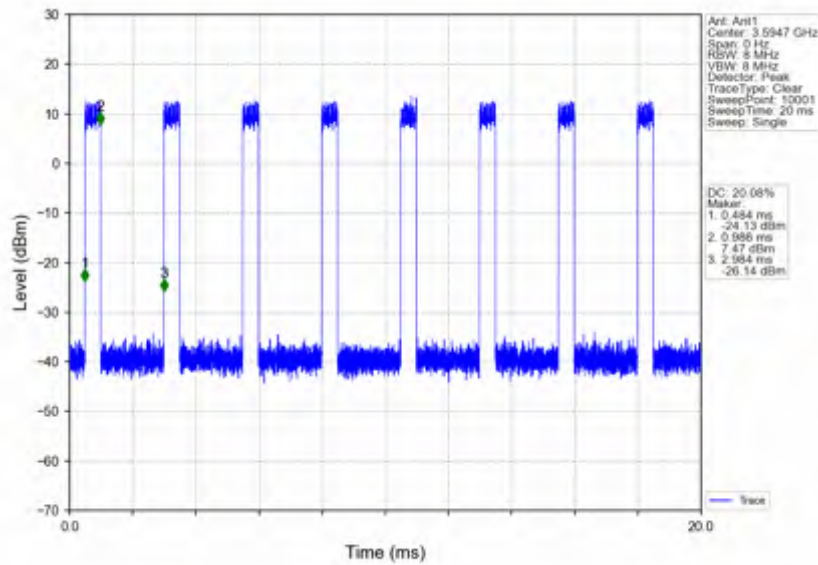
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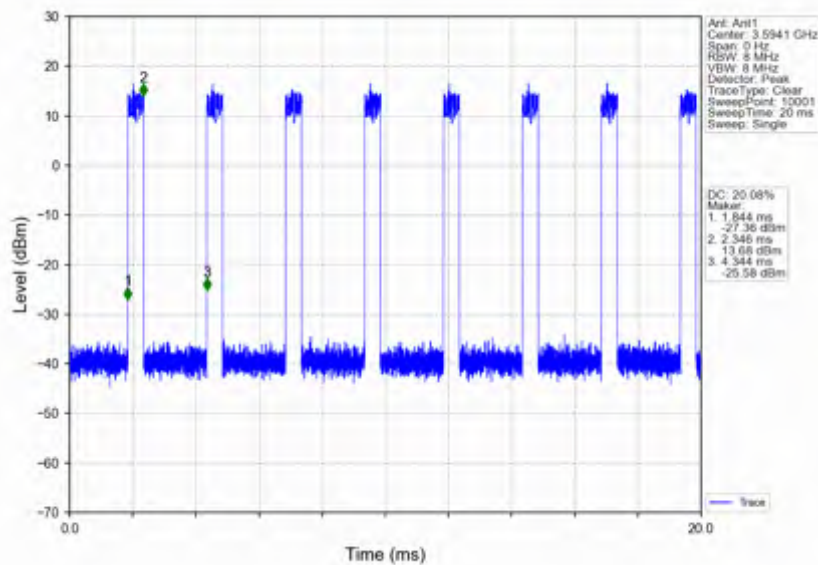
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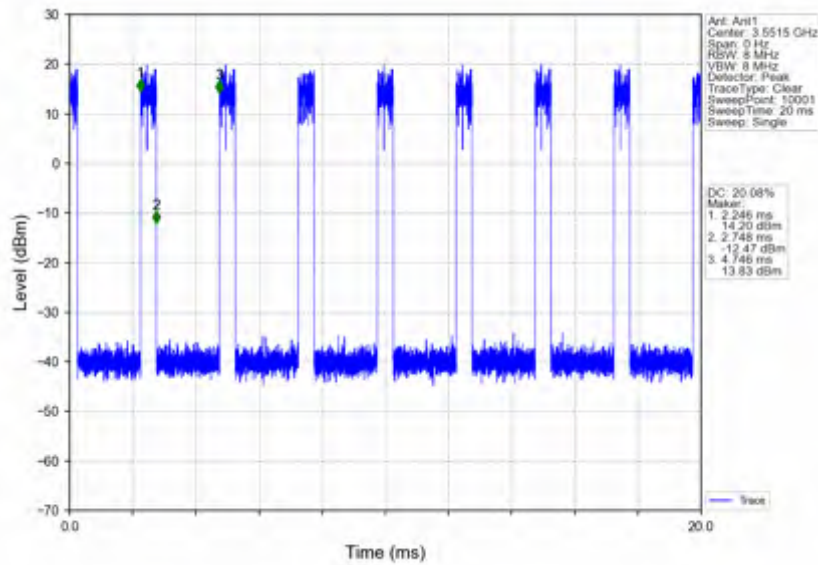
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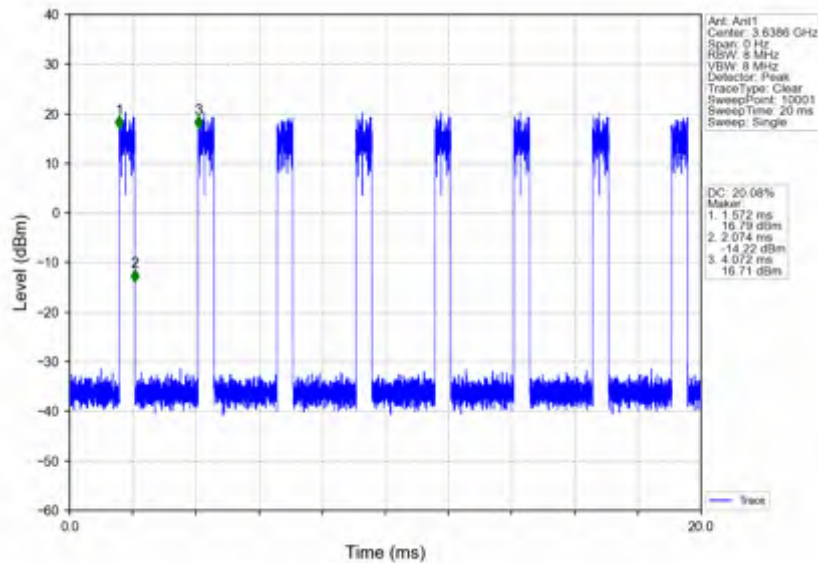
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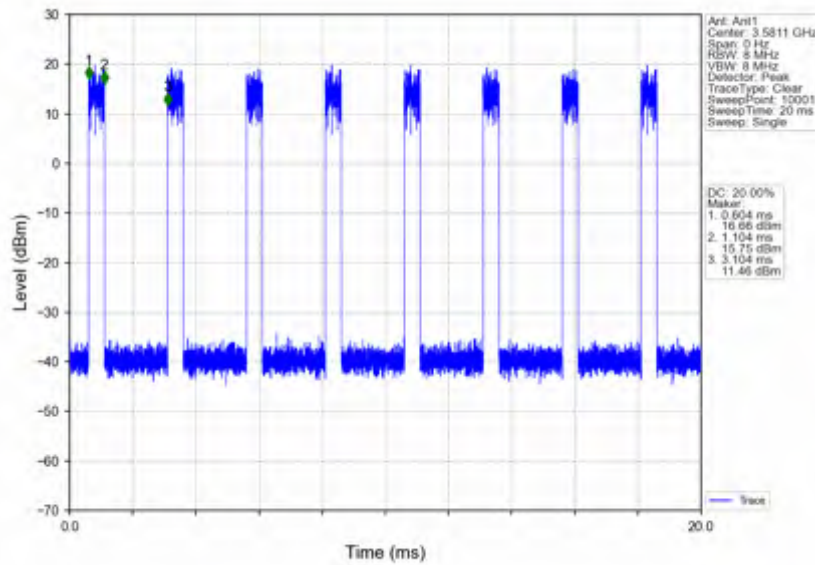


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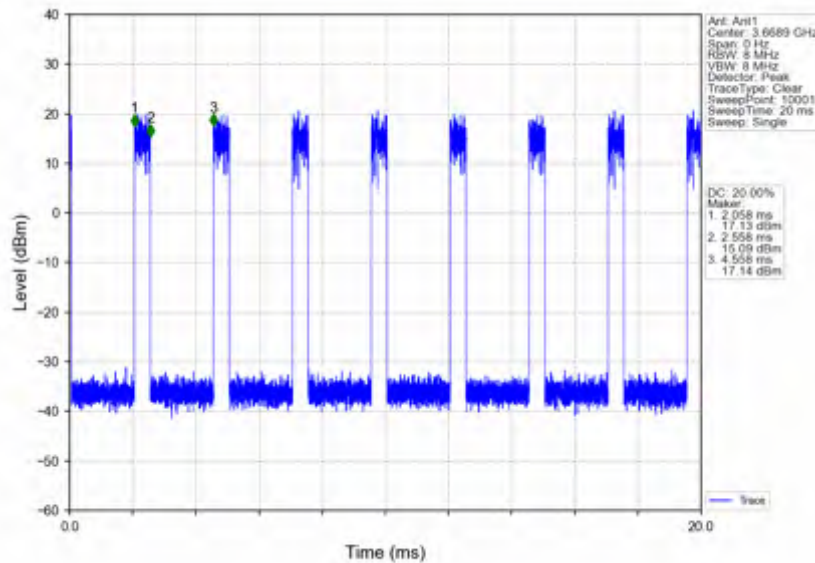
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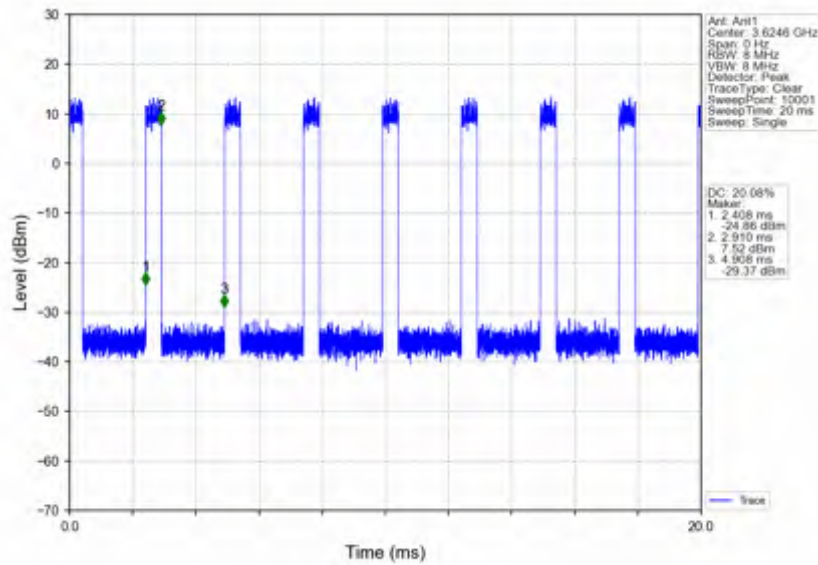
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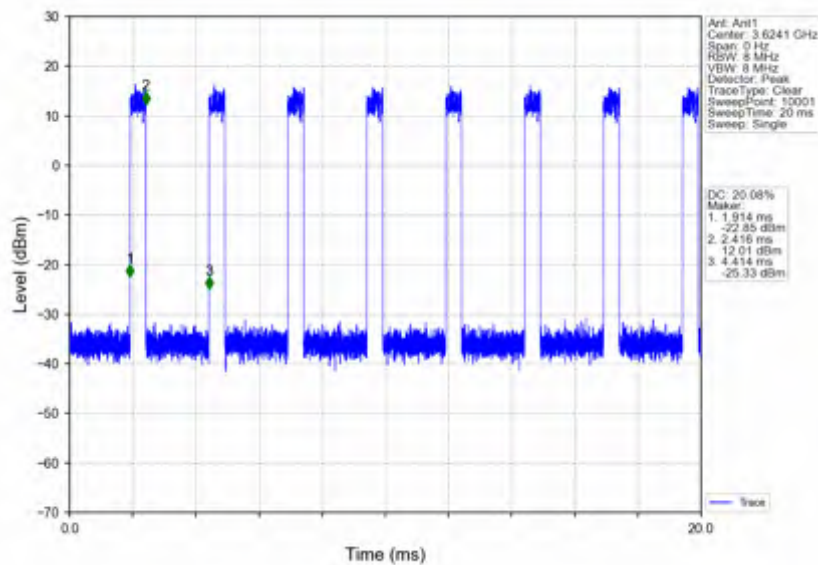
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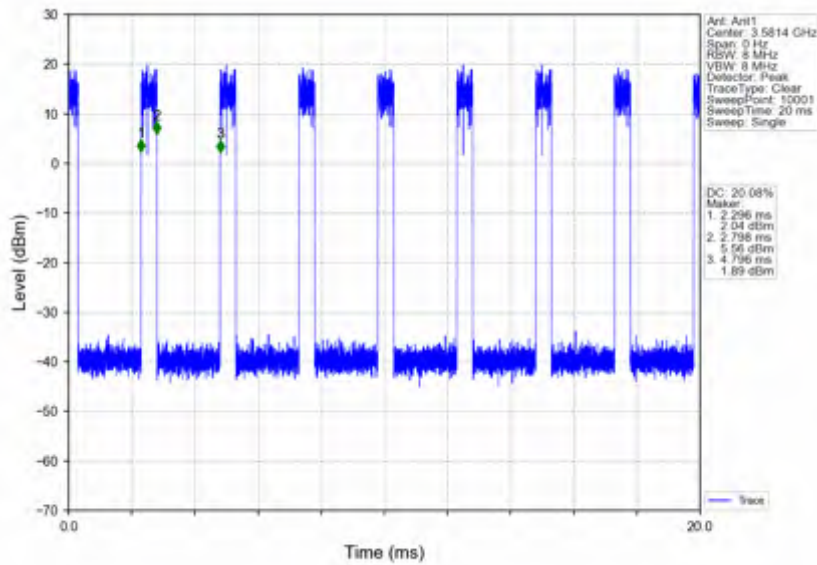
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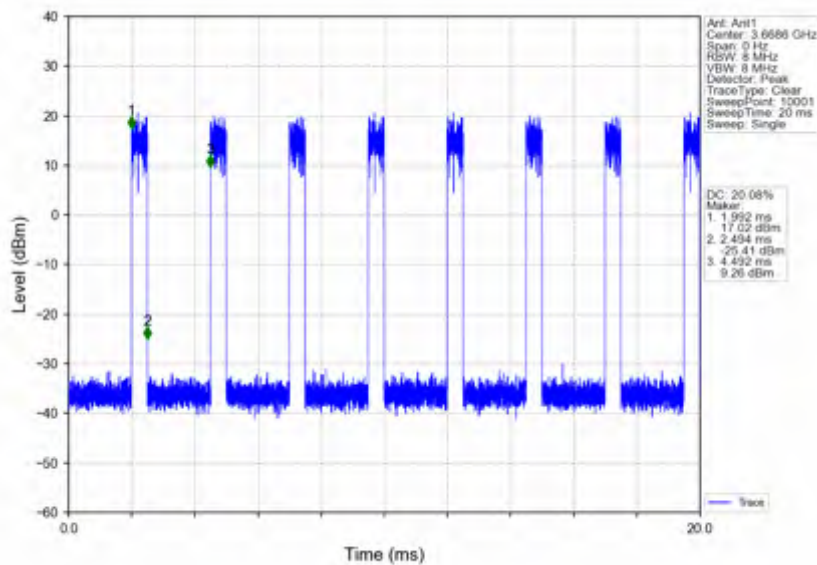
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Inner_1RB_Left



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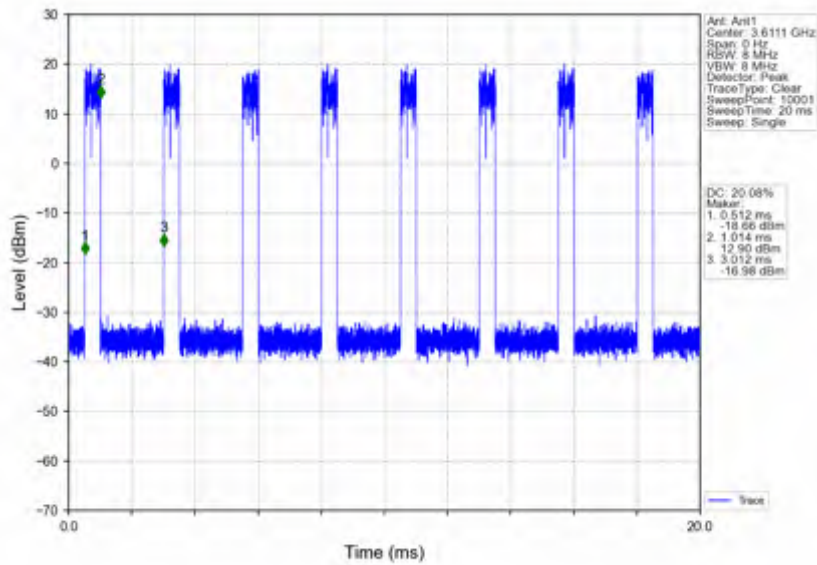


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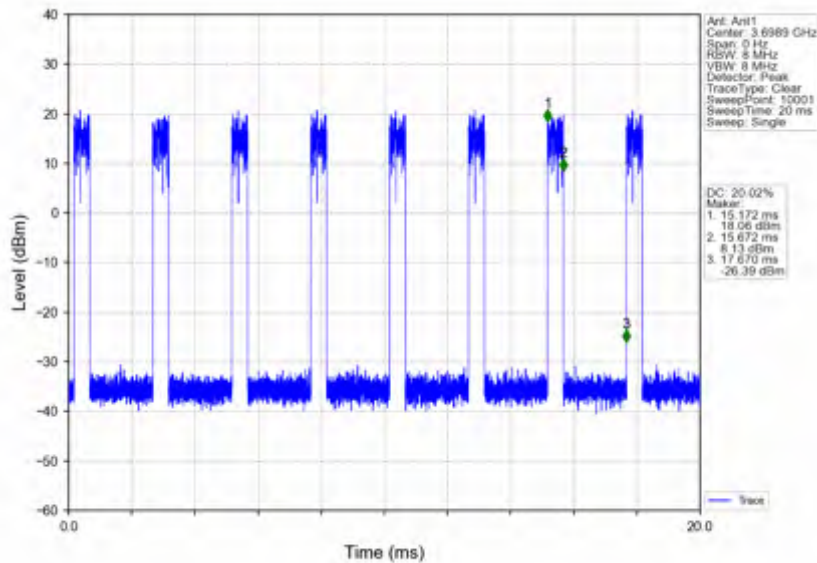
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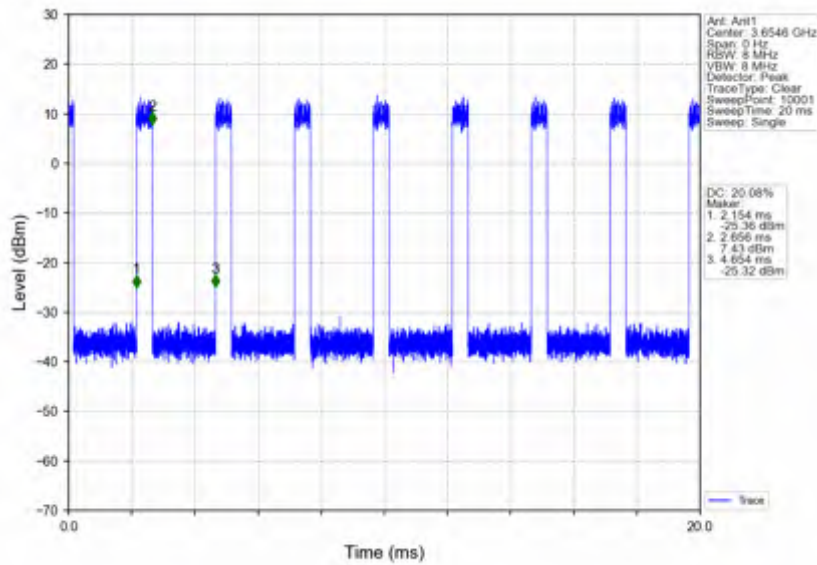
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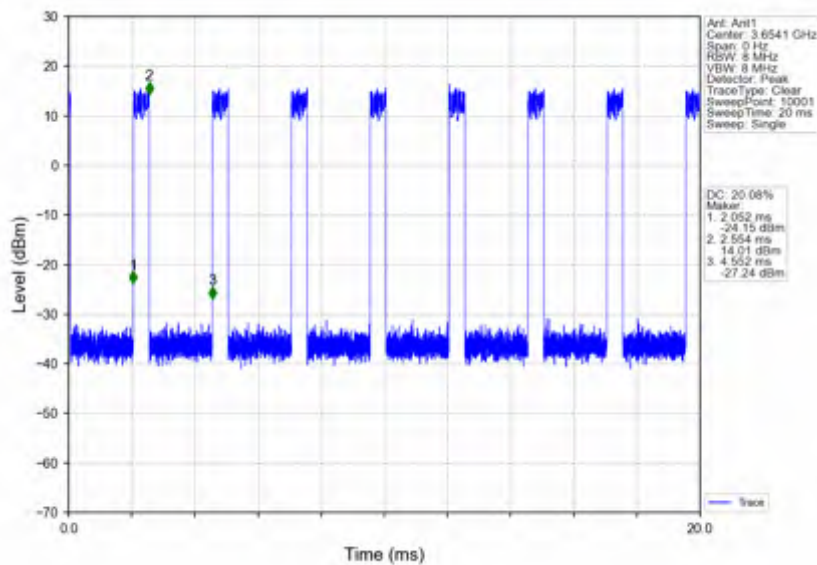
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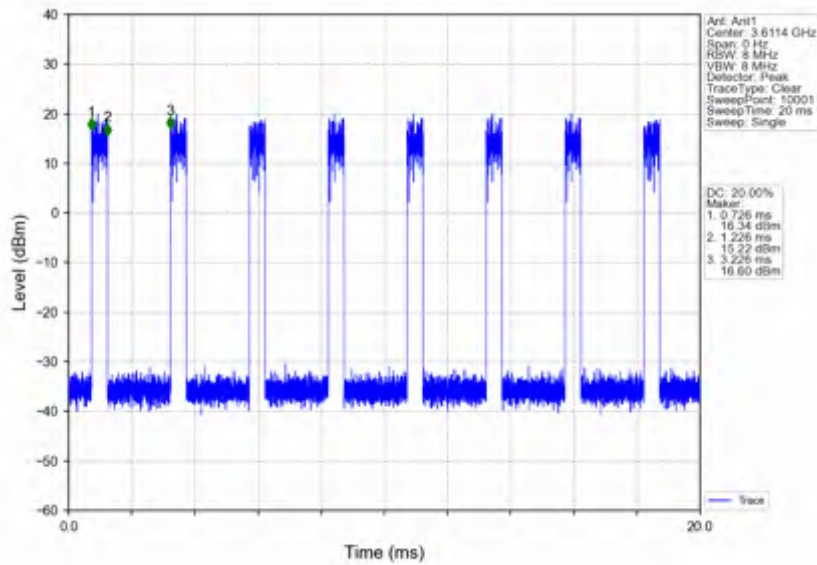
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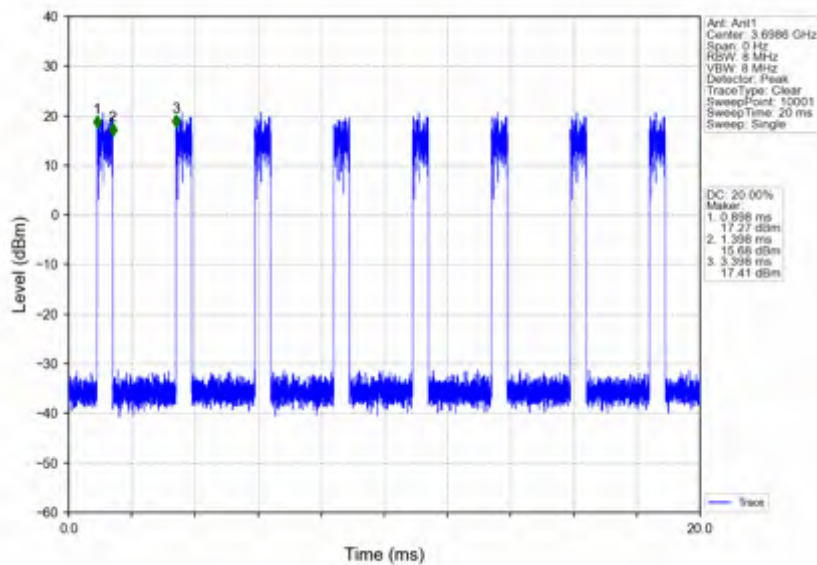
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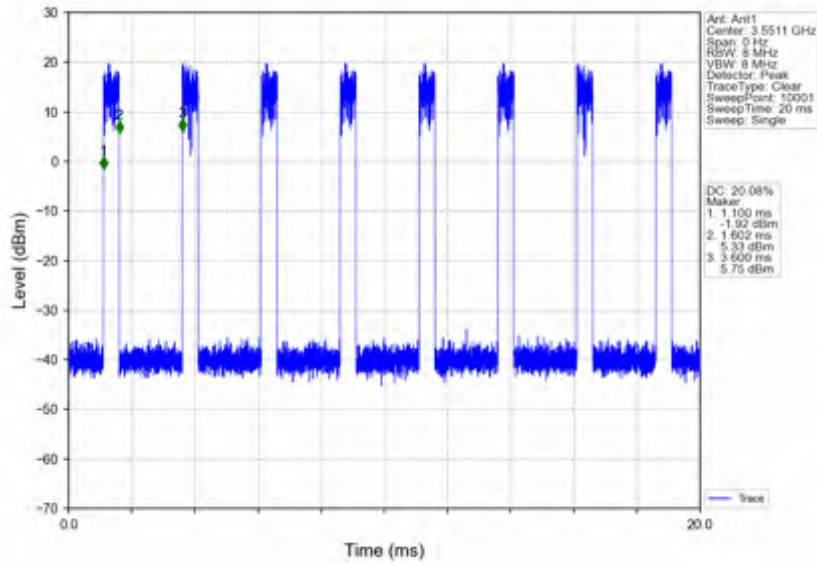


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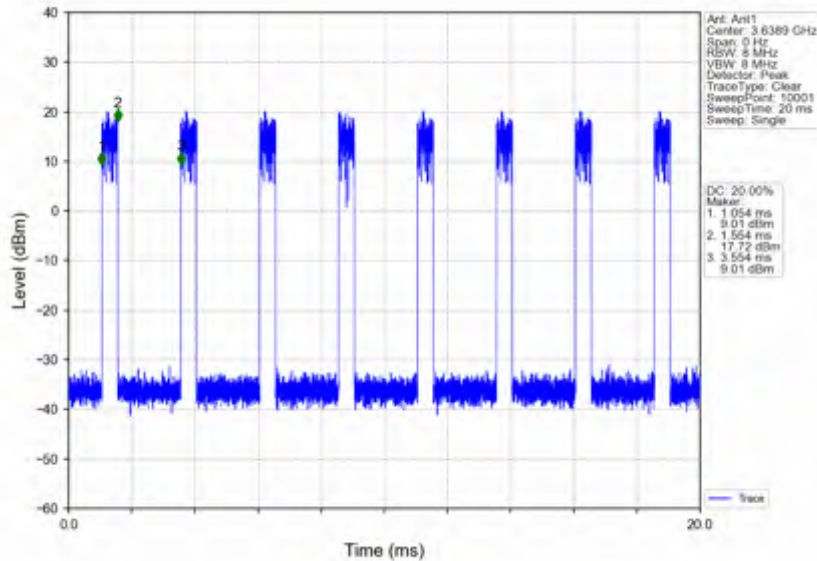
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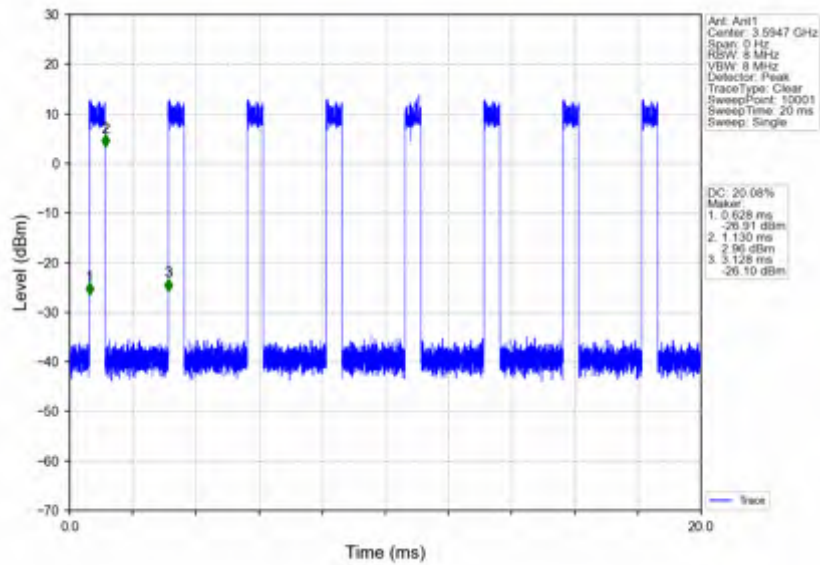
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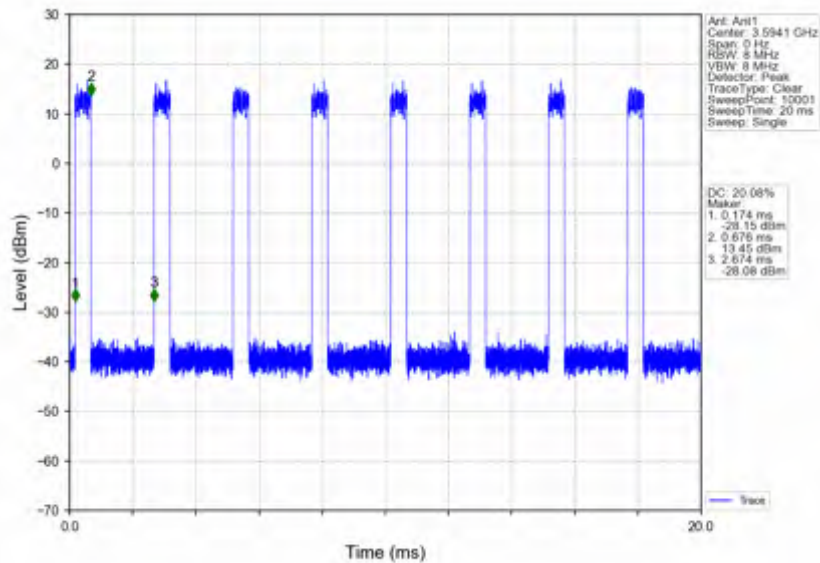
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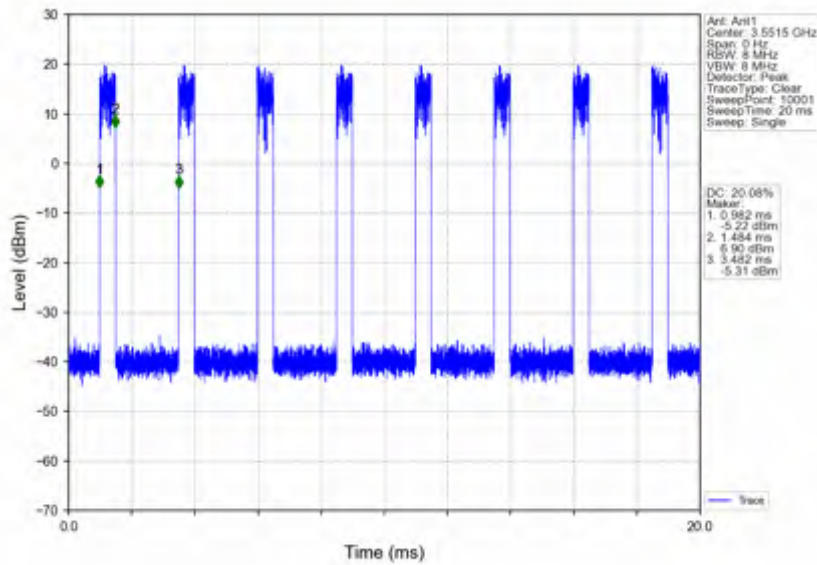


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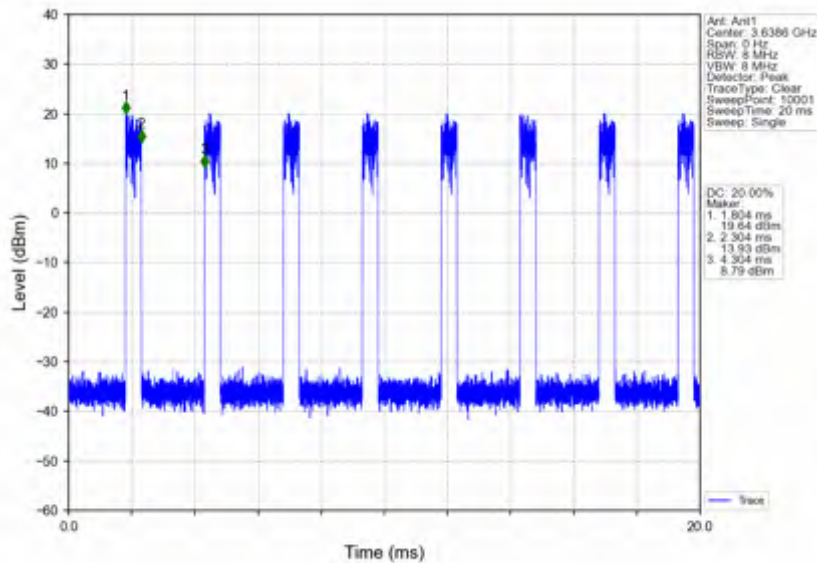
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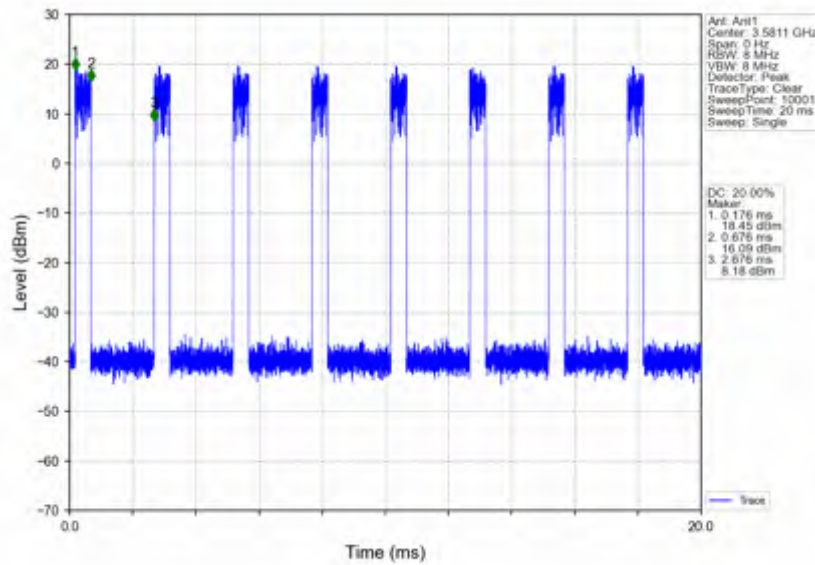


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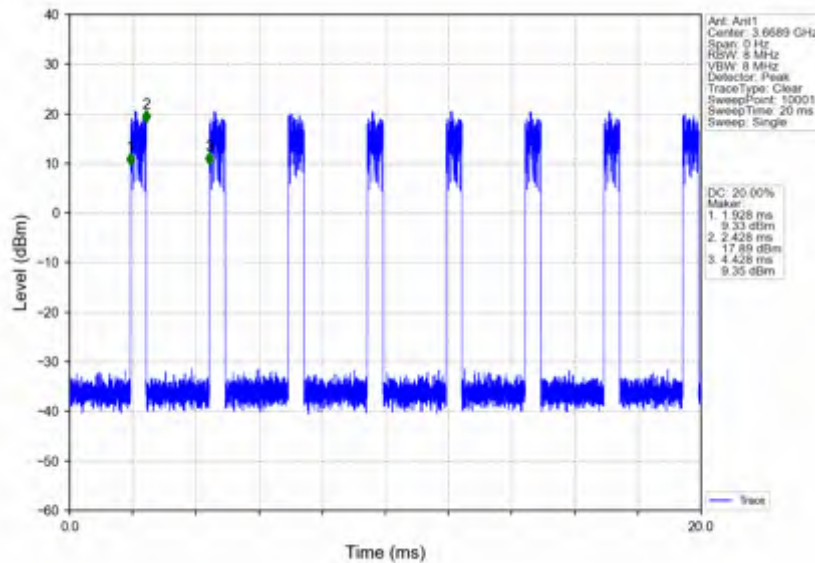
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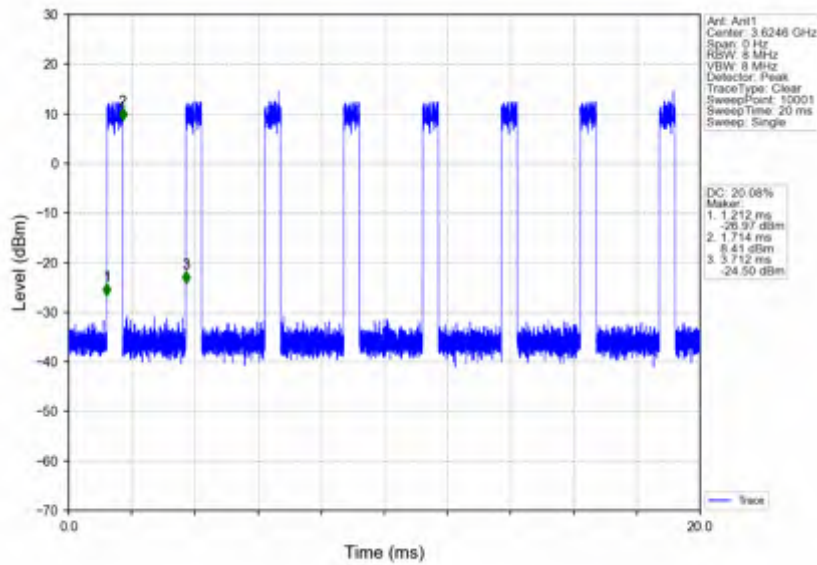


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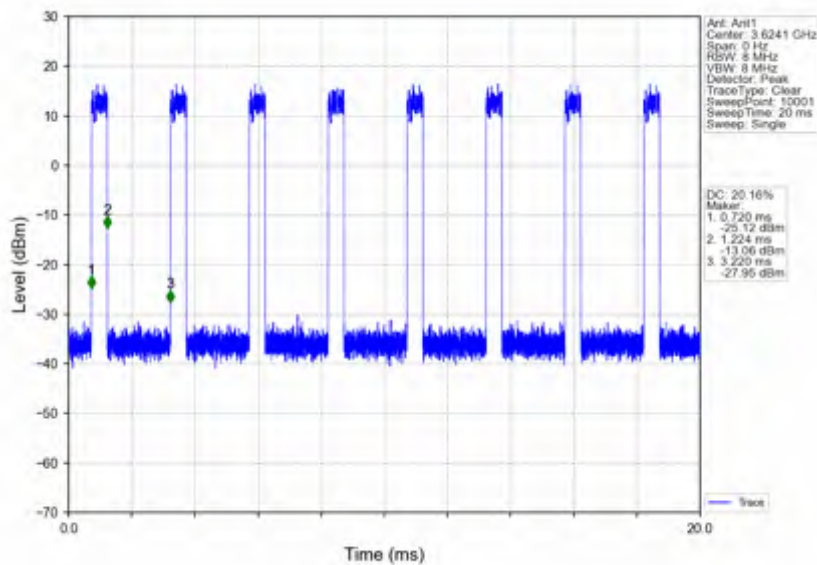
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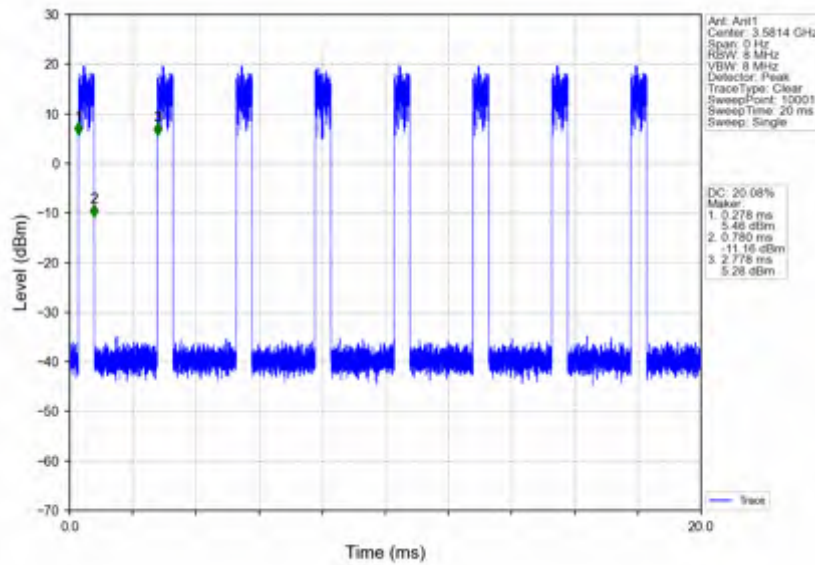


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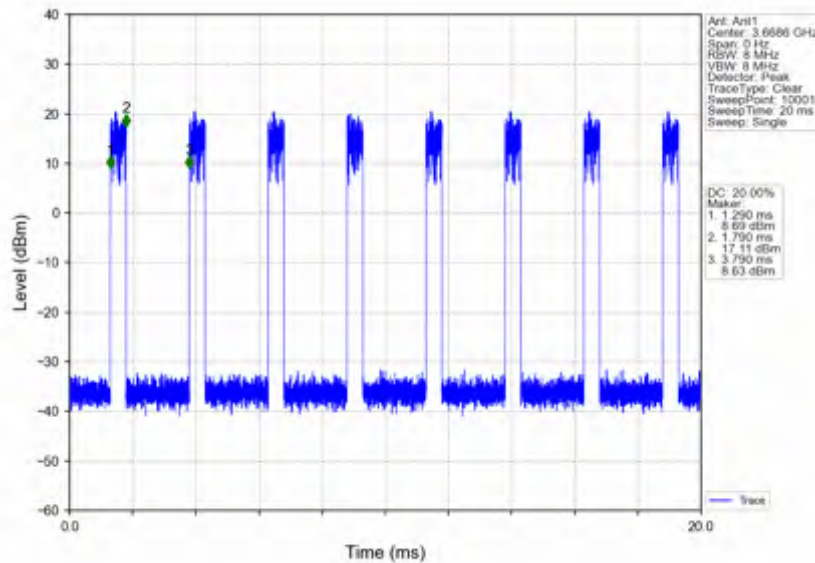
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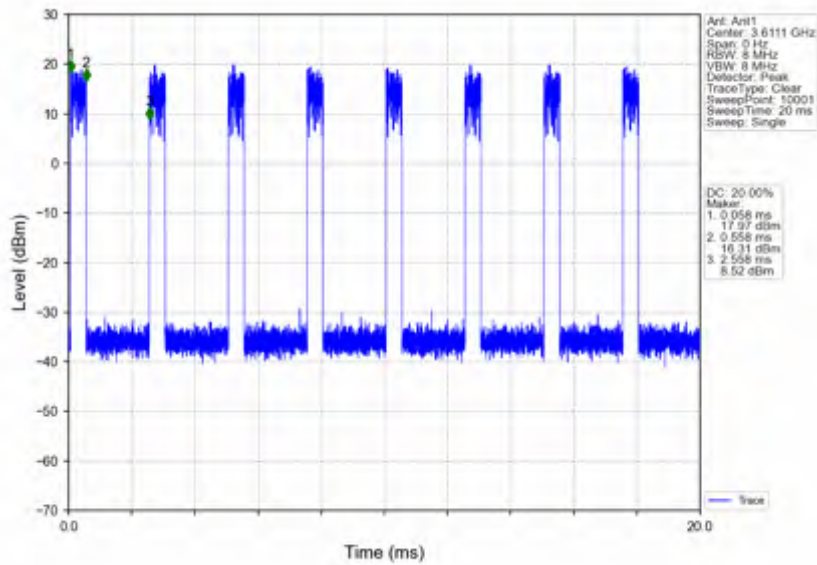


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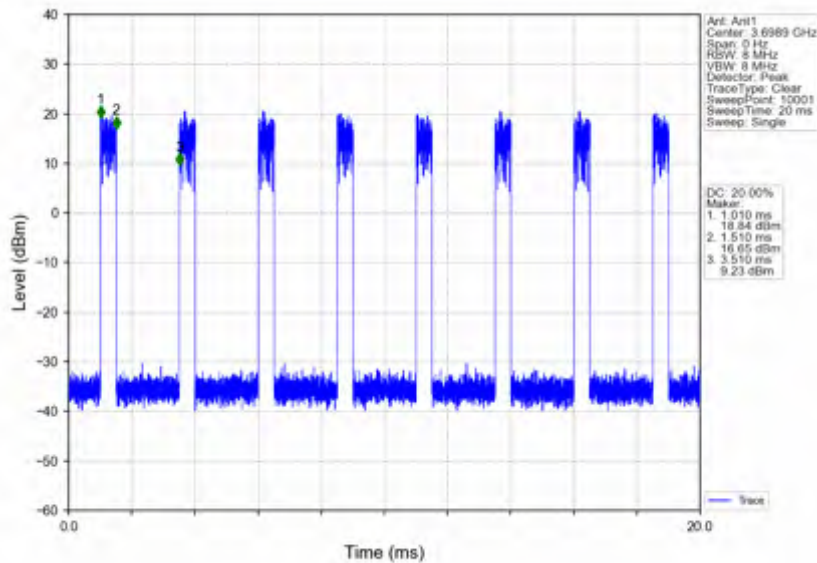
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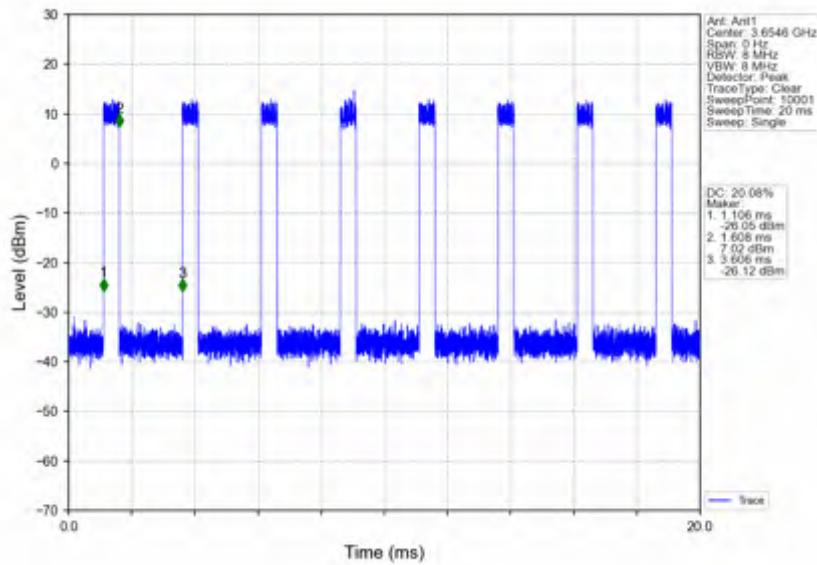


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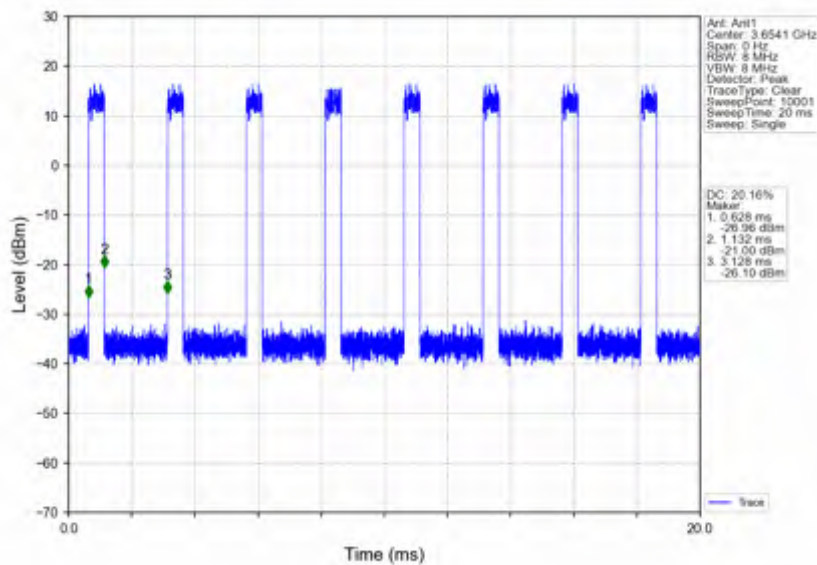
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3654.99MHz_Outer_Full



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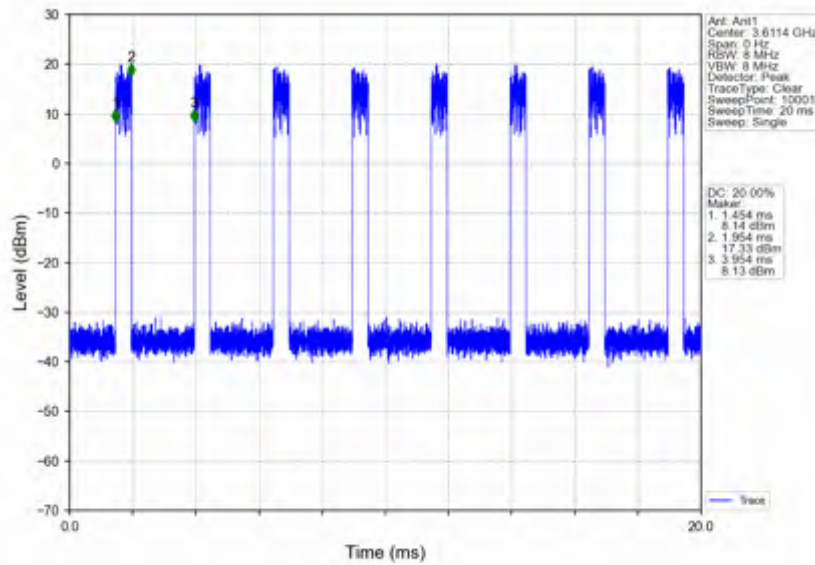
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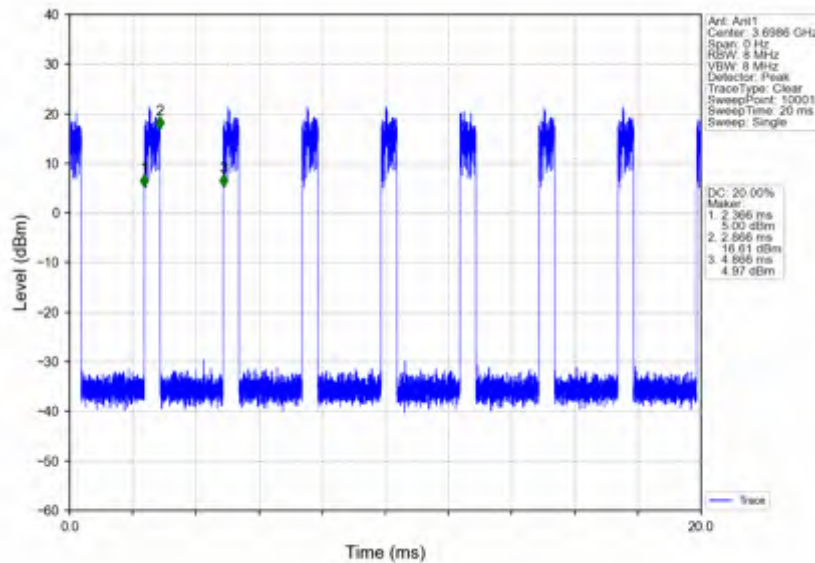
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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3654.99MHz_Inner_1RB_Left



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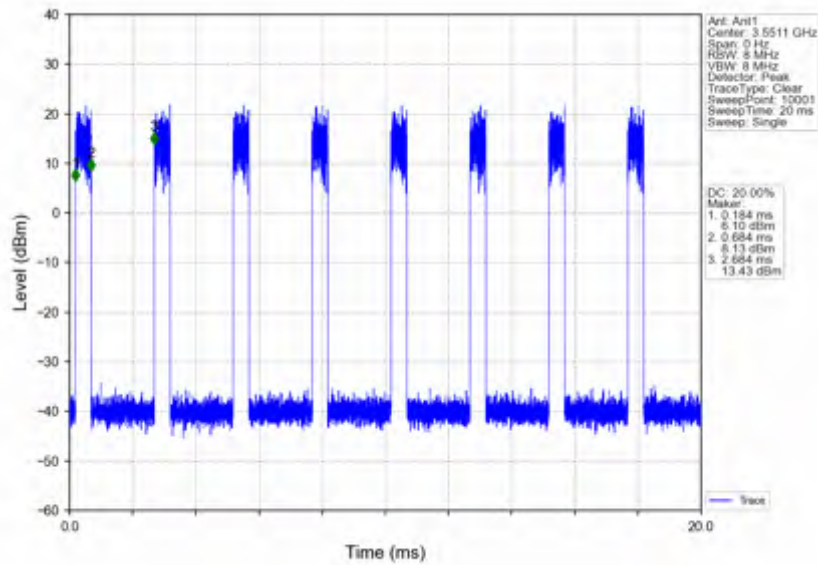


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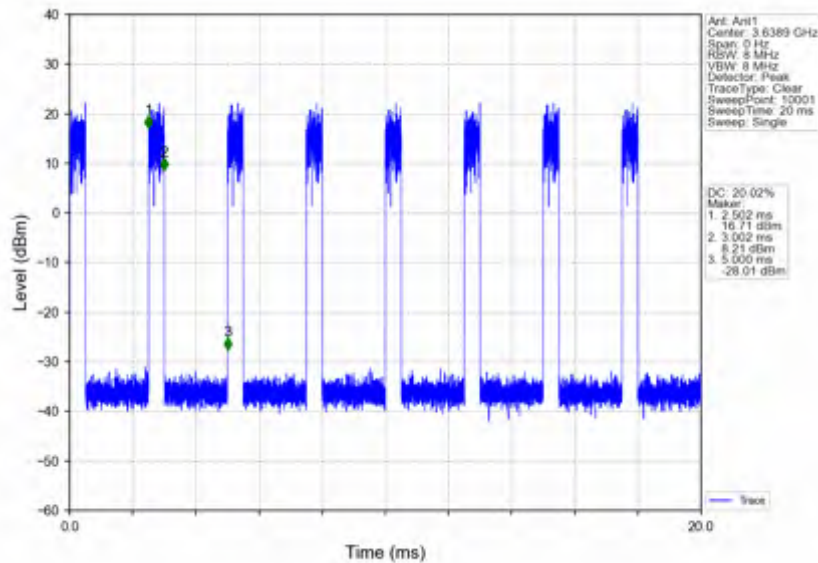
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3595.02MHz_Edge_1RB_Left



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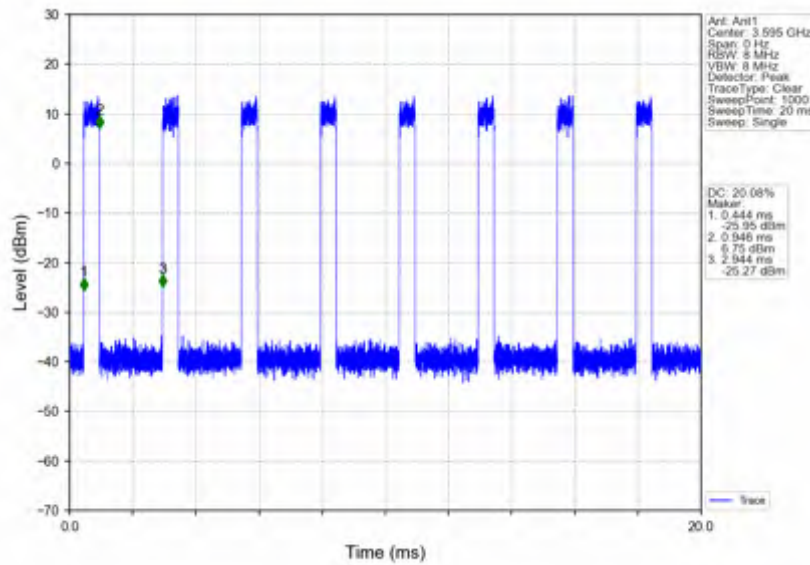
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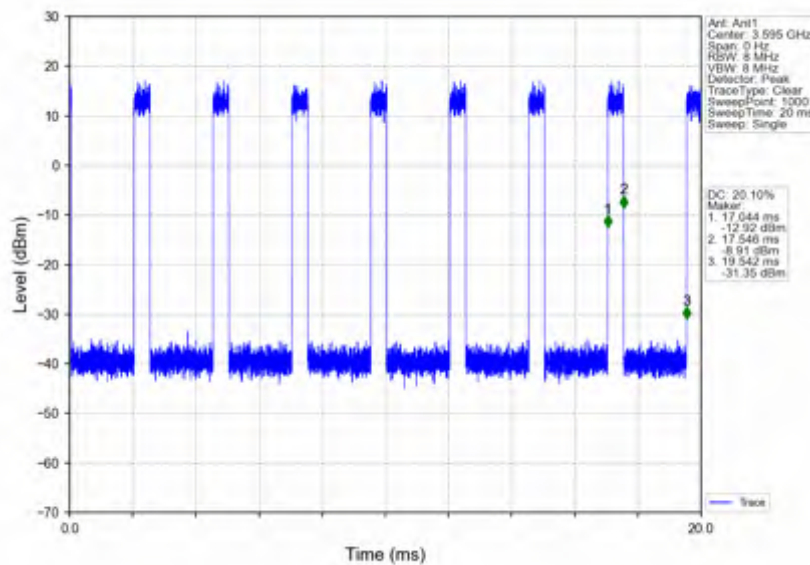
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3595.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3595.02MHz_Inner_Full



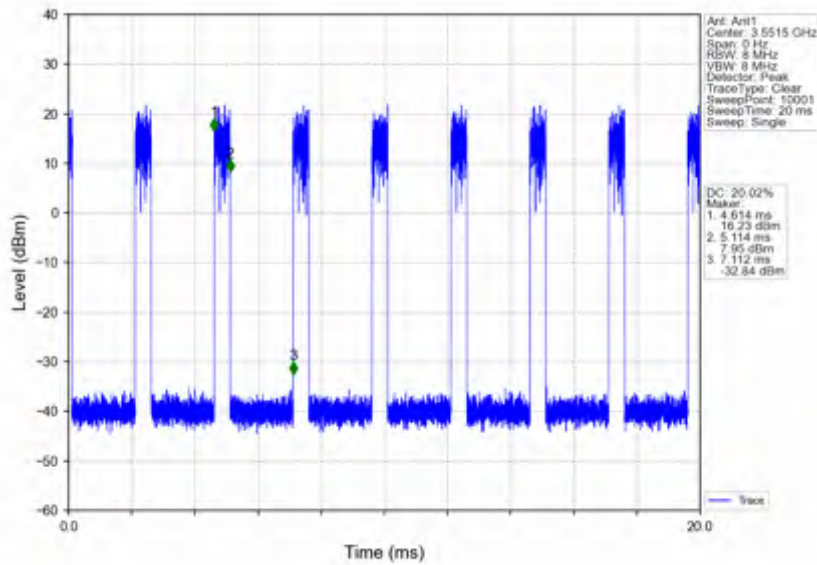
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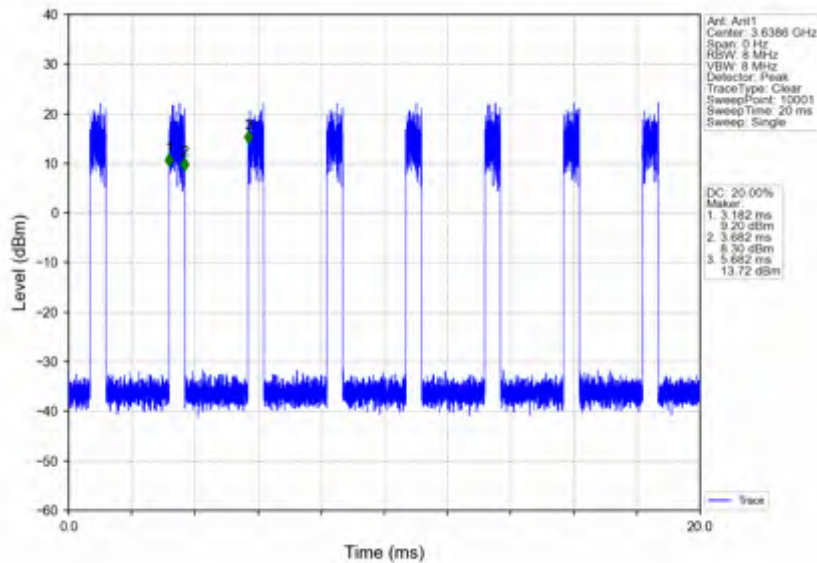
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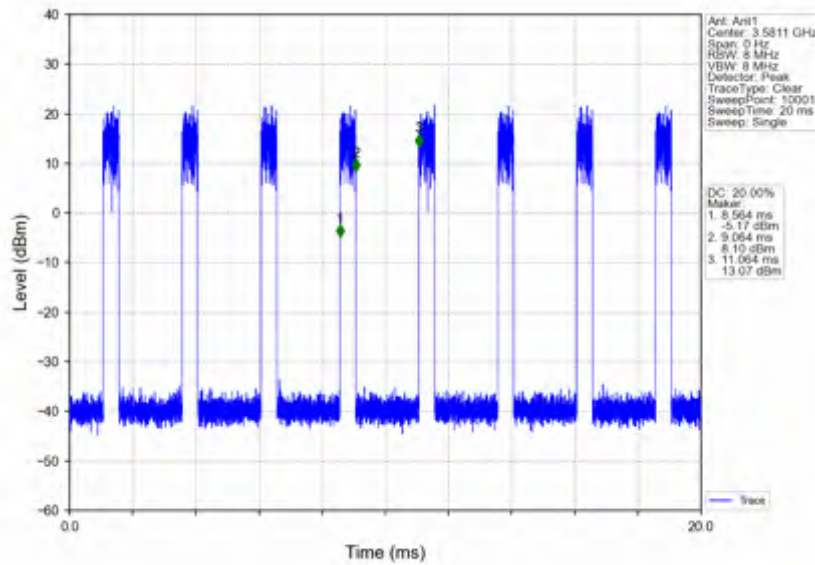
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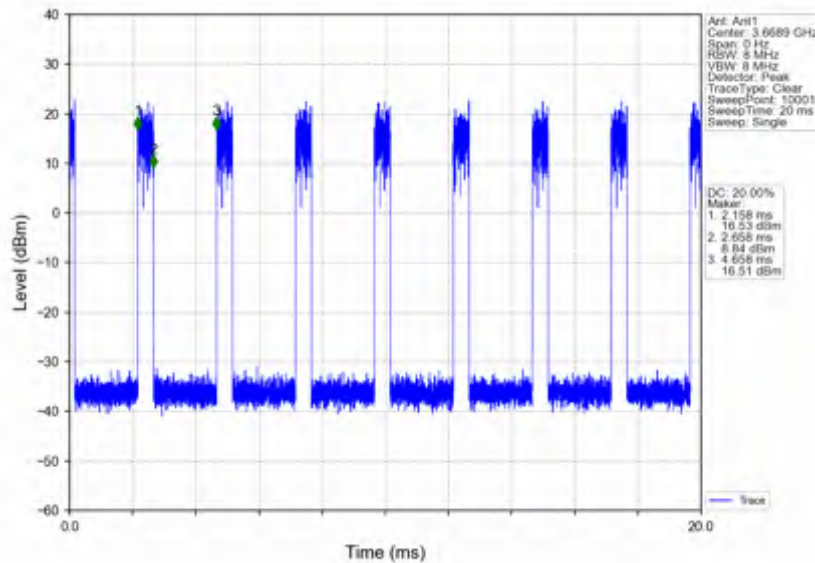
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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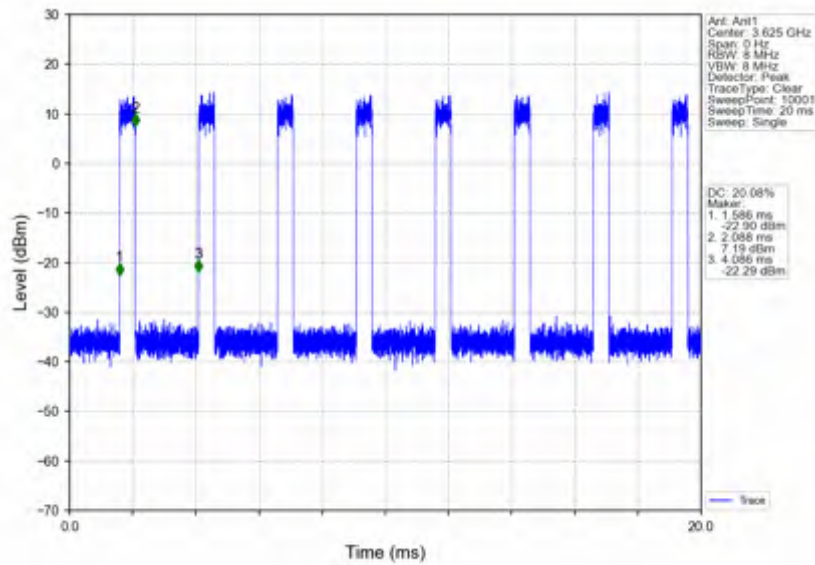
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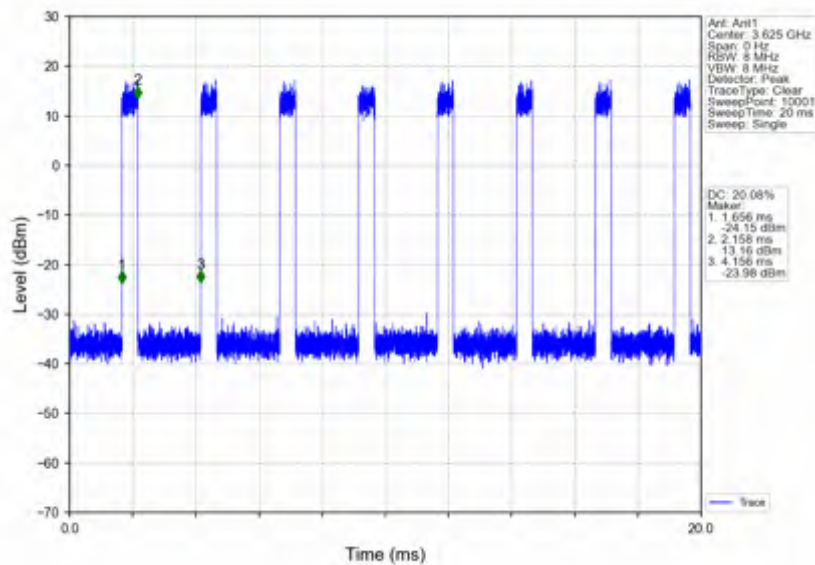
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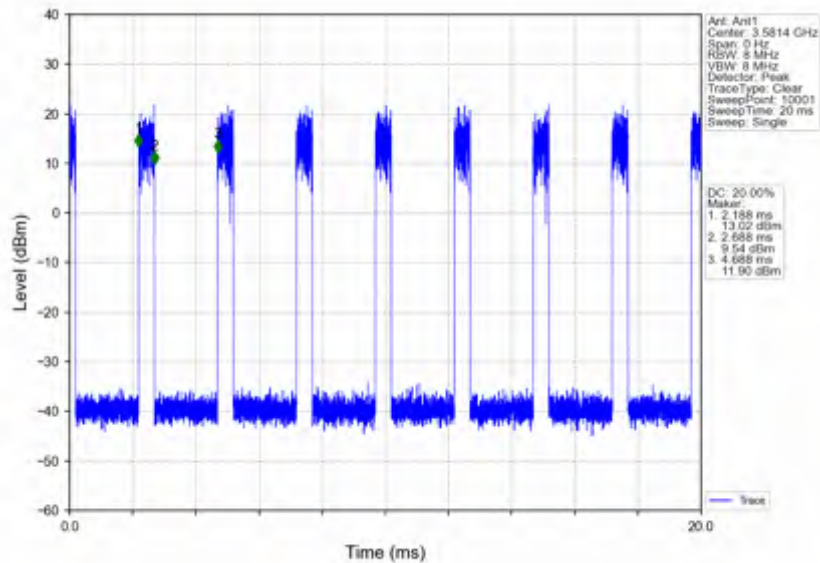


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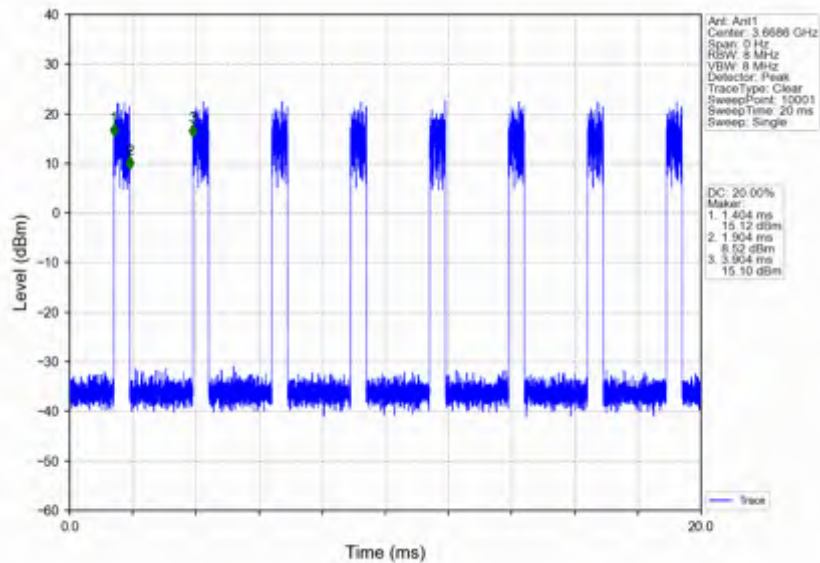
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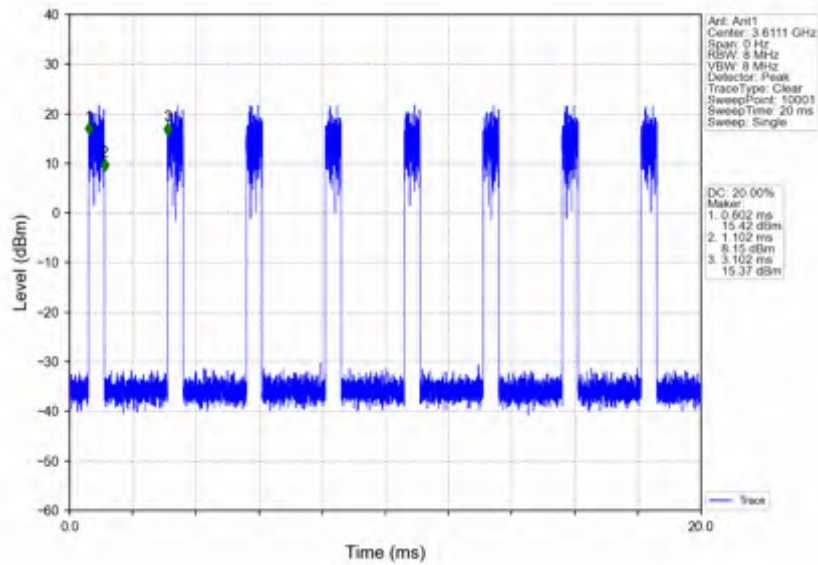


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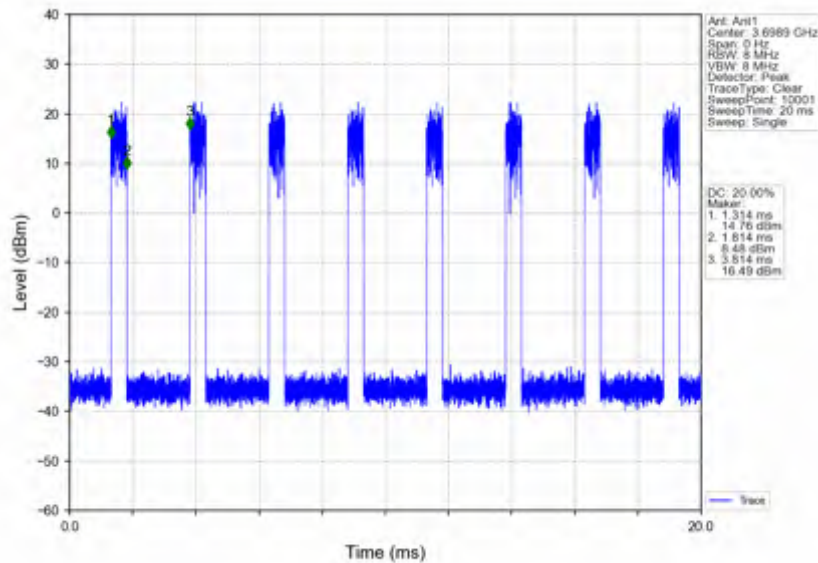
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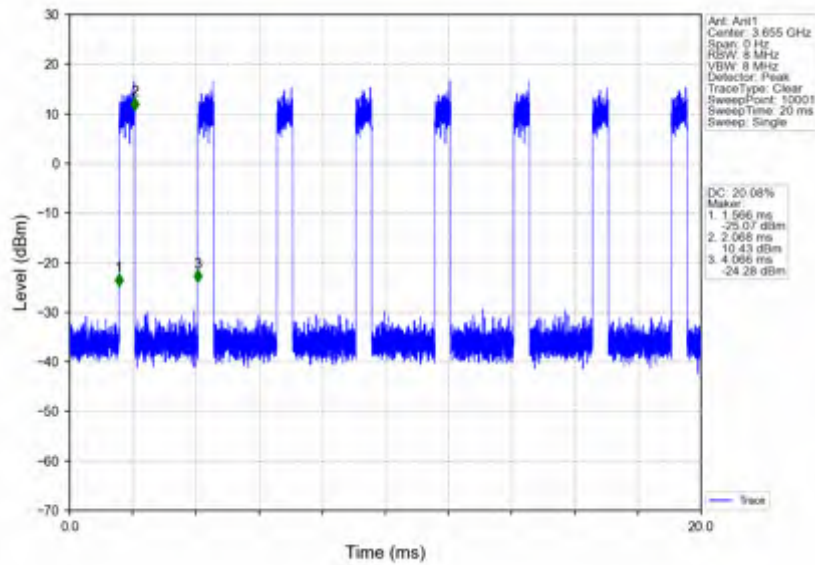


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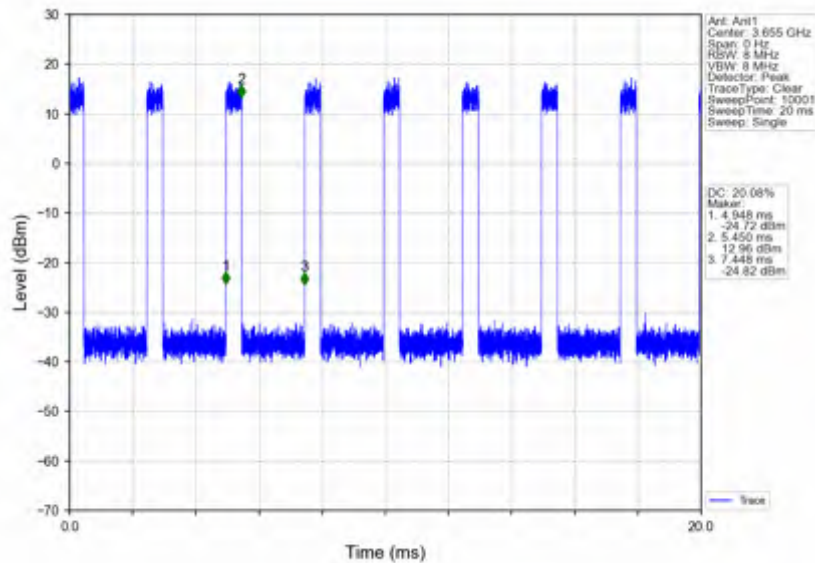
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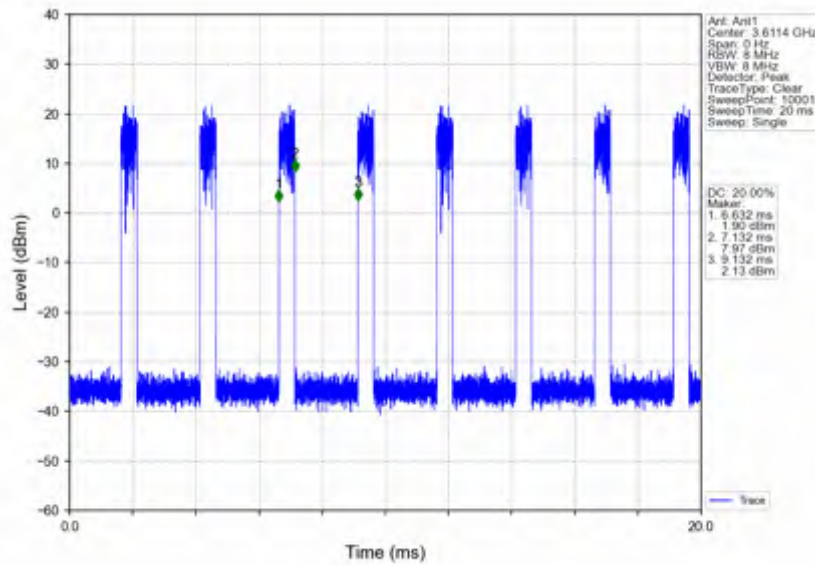
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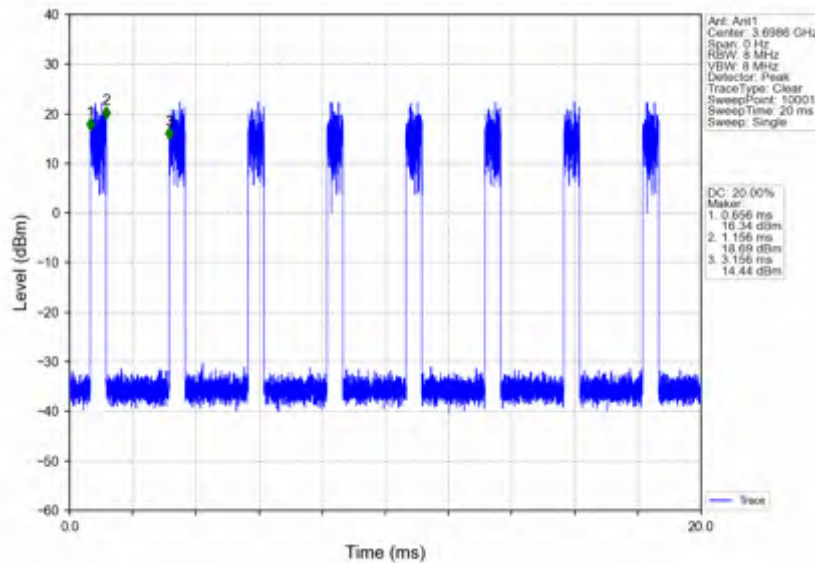
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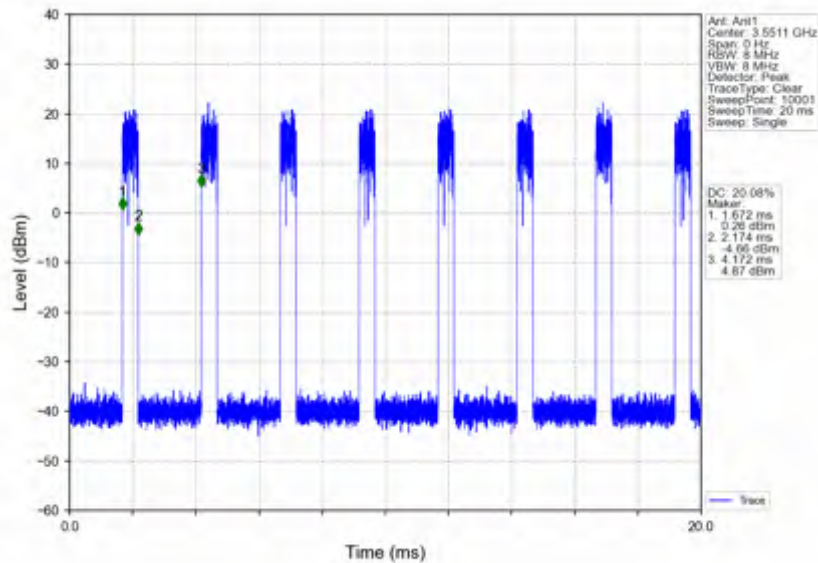


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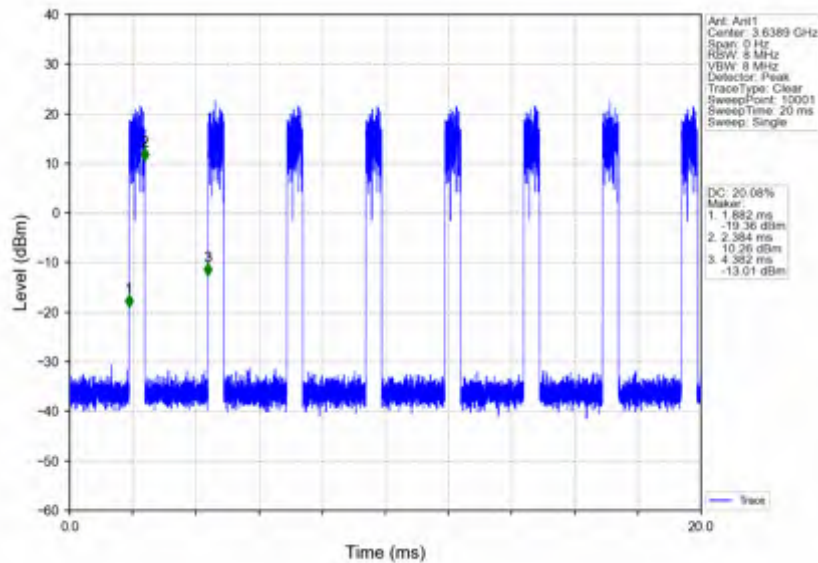
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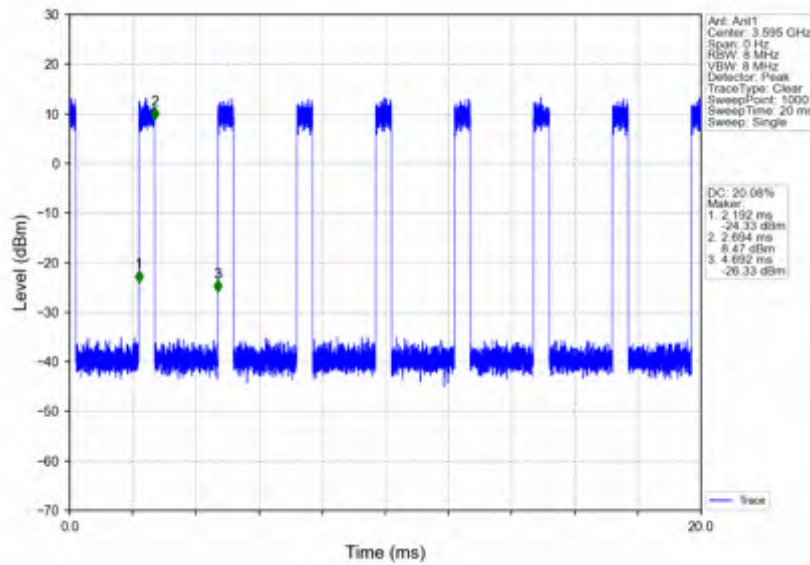


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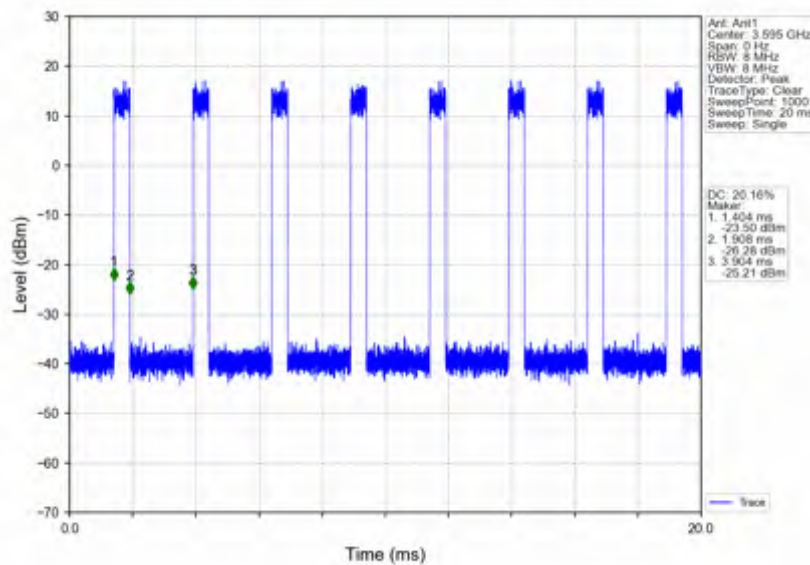
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3595.02MHz_Outer_Full



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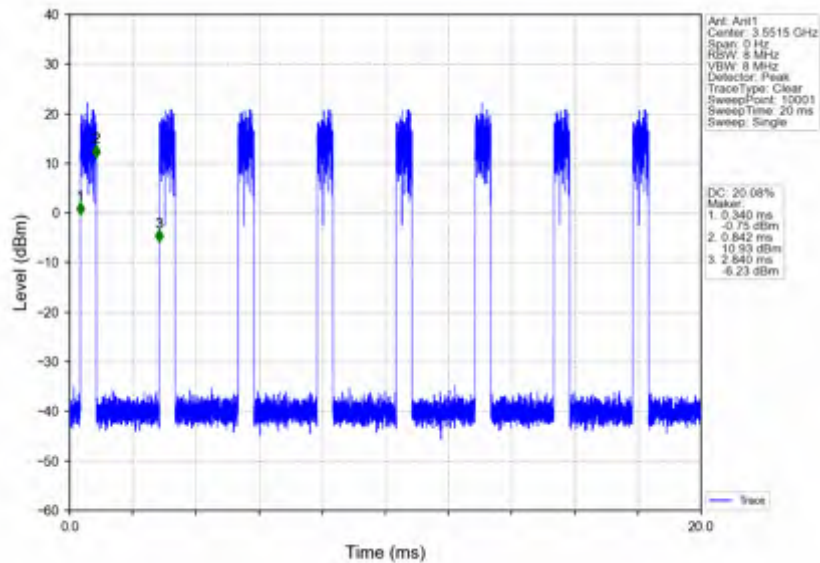
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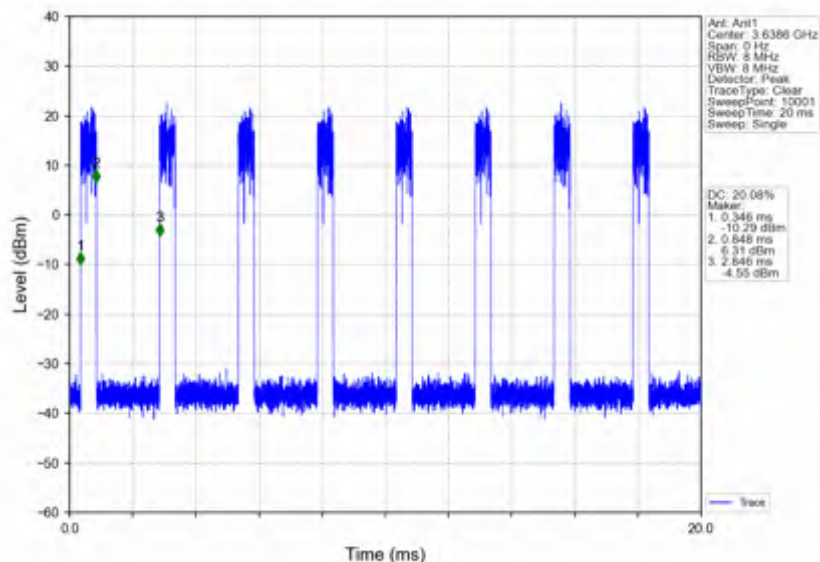
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3595.02MHz_Inner_1RB_Left



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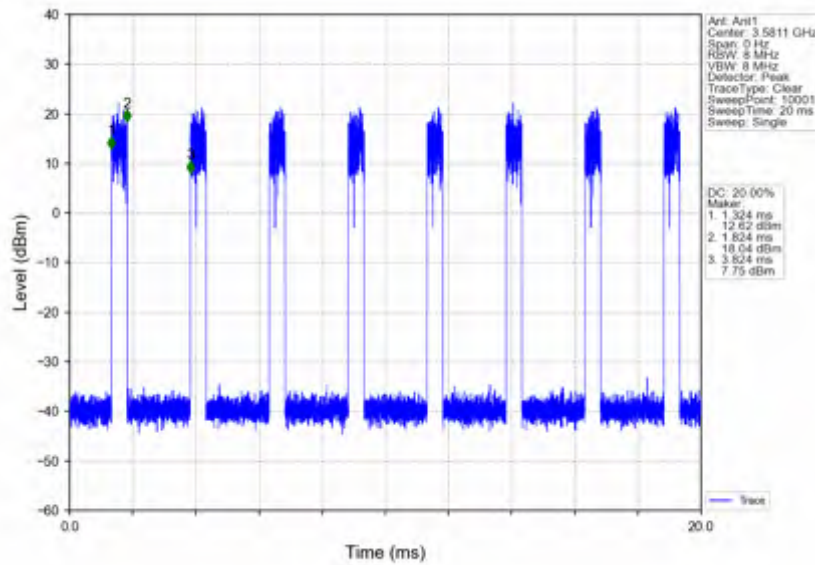


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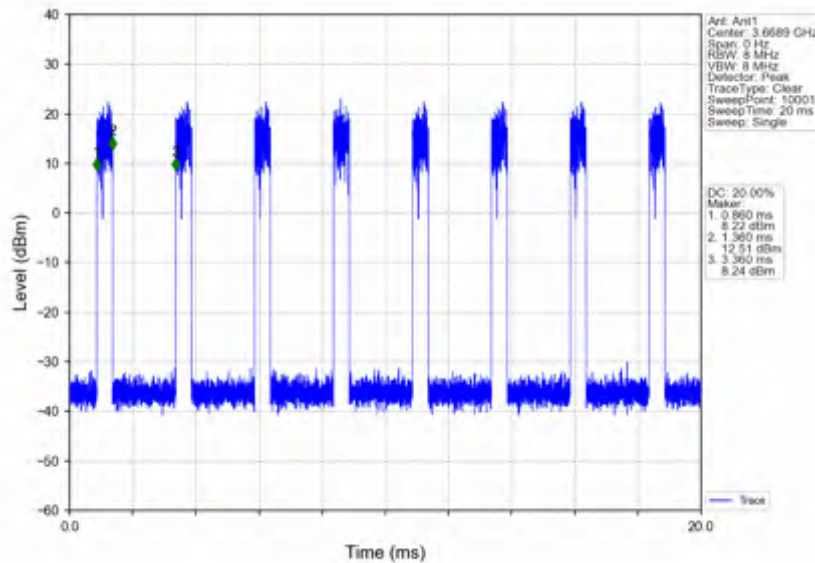
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3624.99MHz_Edge_1RB_Left



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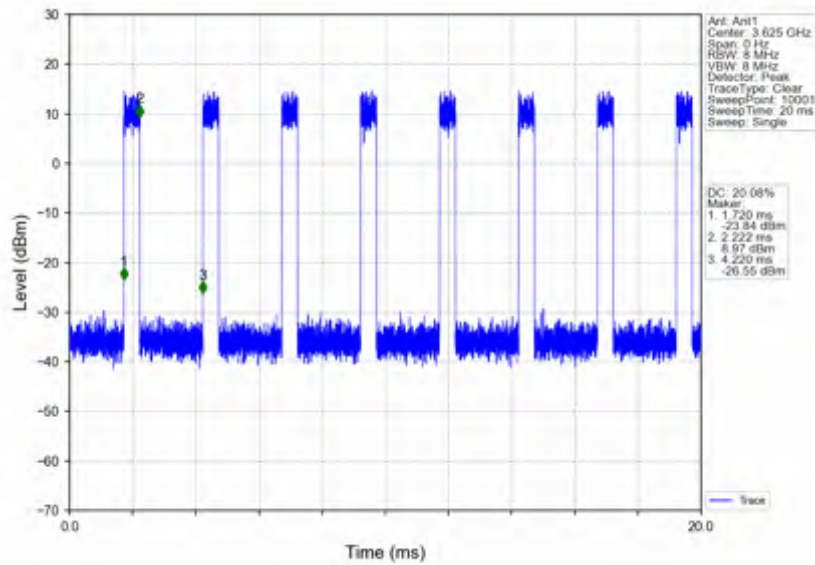


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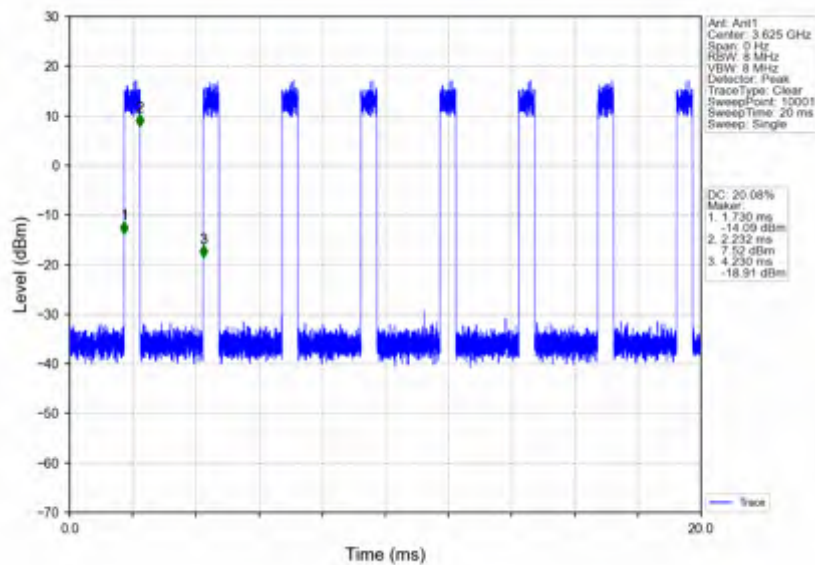
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n78d_30kHz_SISO_NTV_90MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



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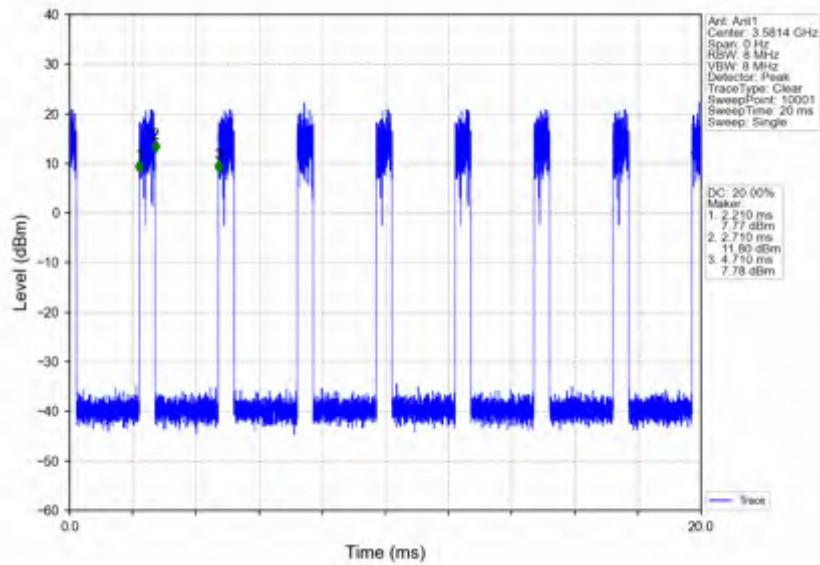


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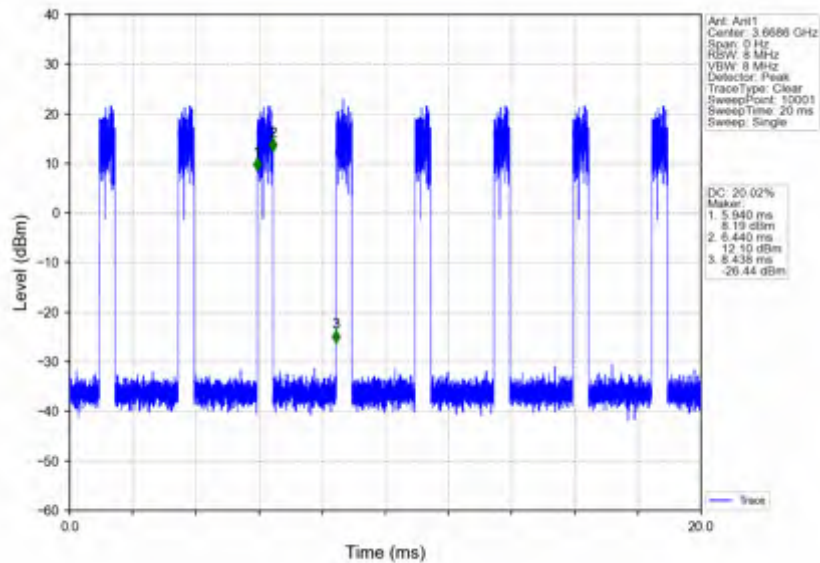
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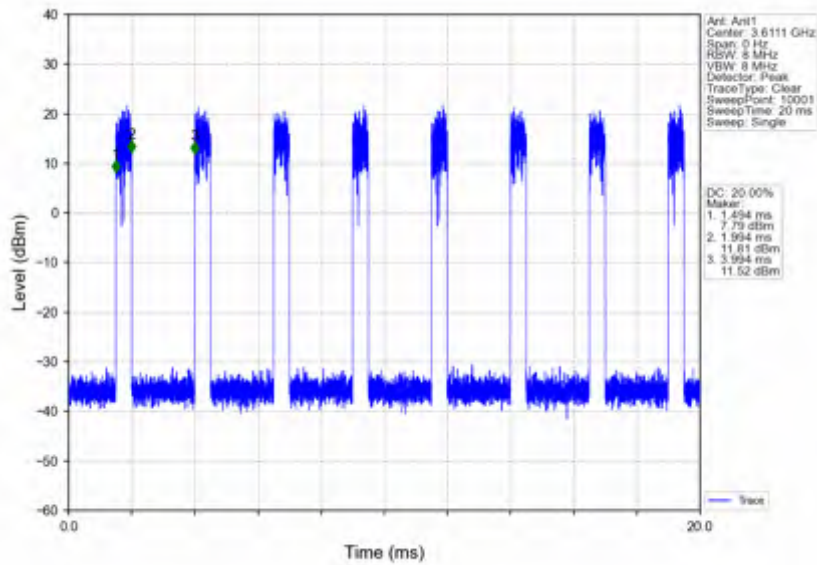


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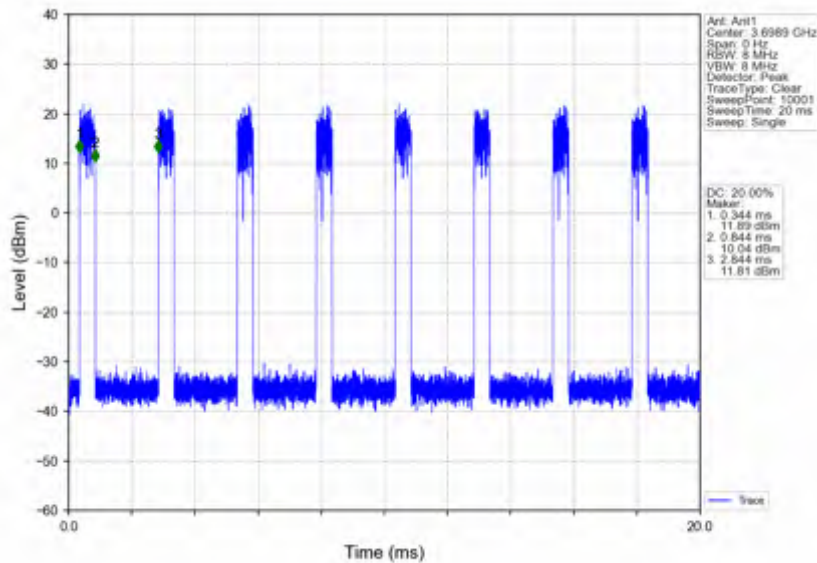
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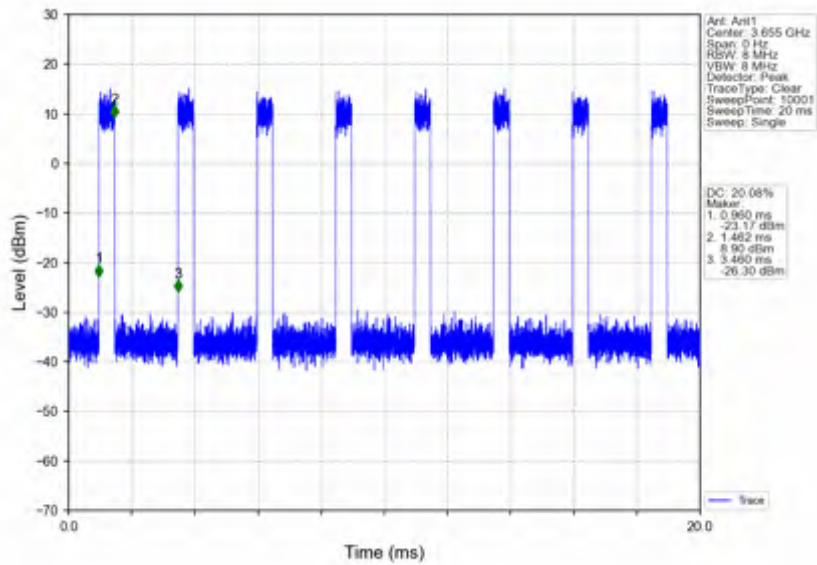


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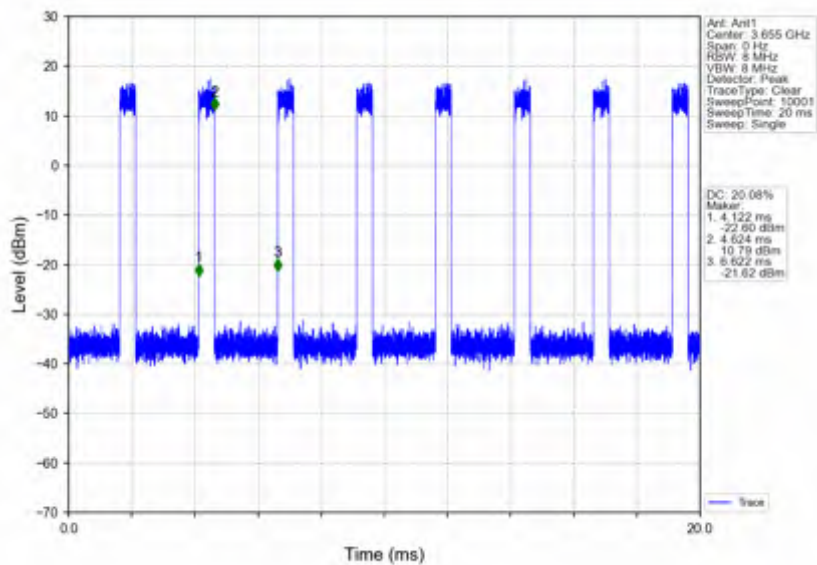
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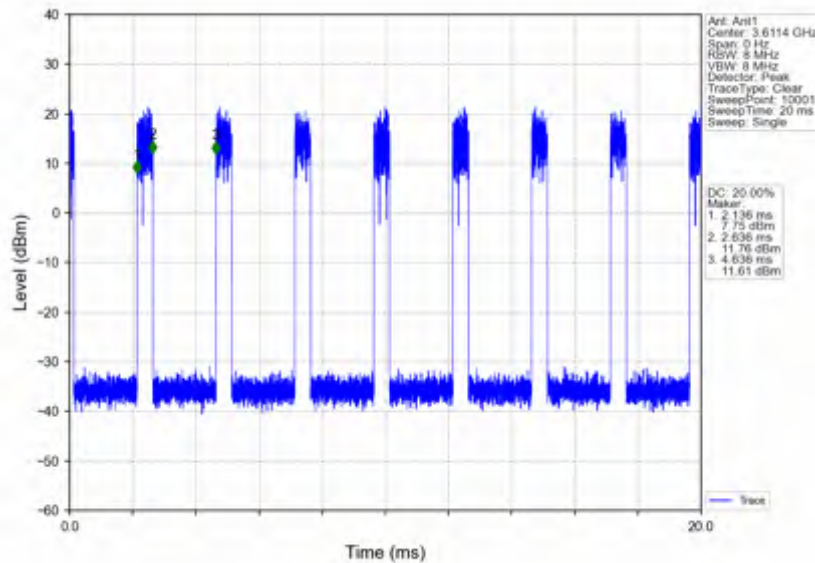
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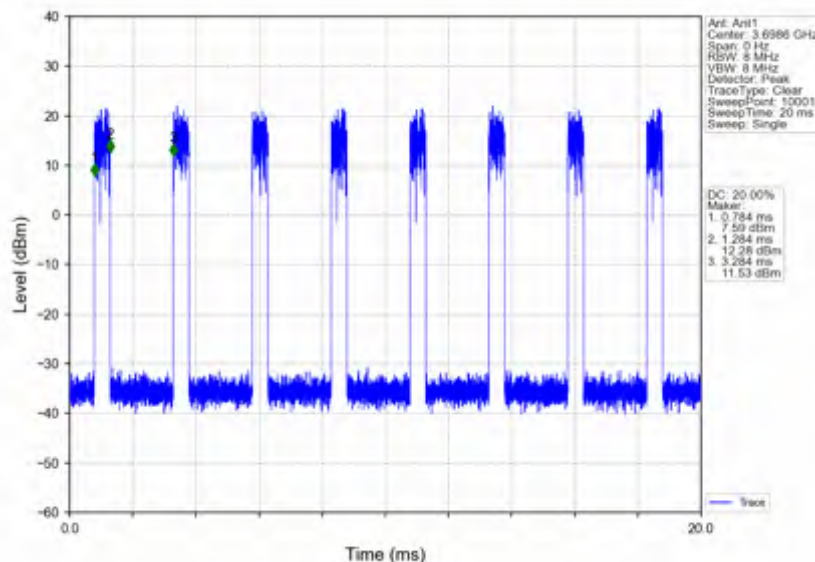
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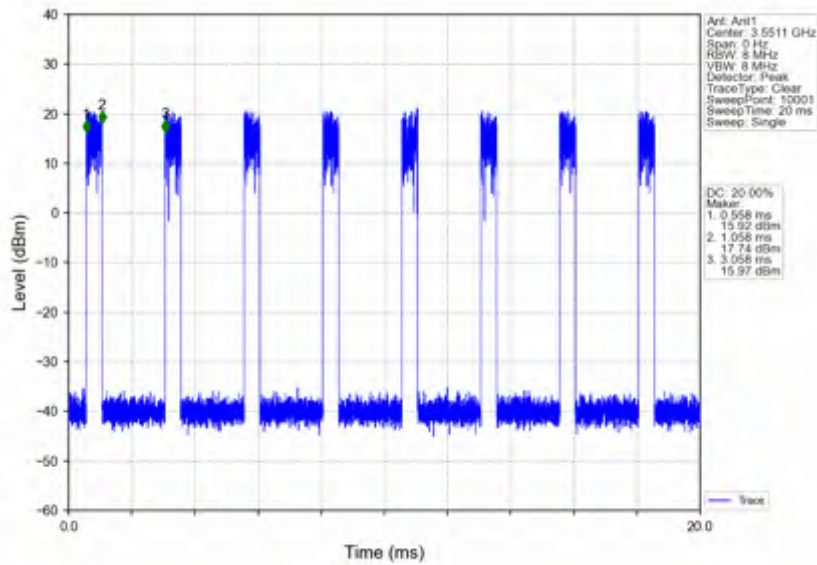


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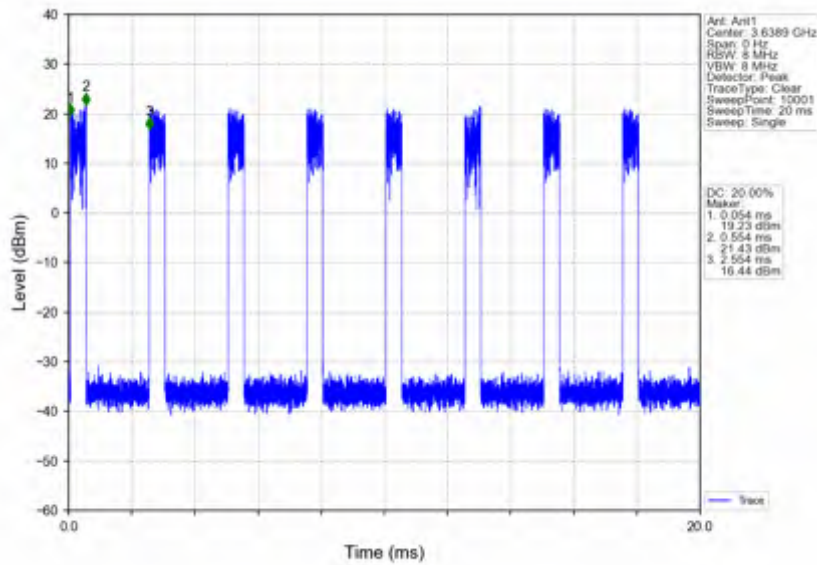
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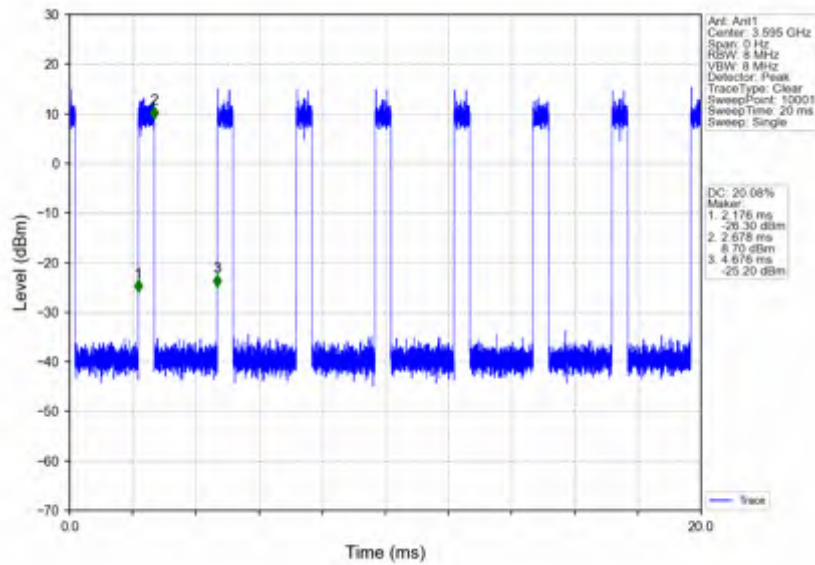
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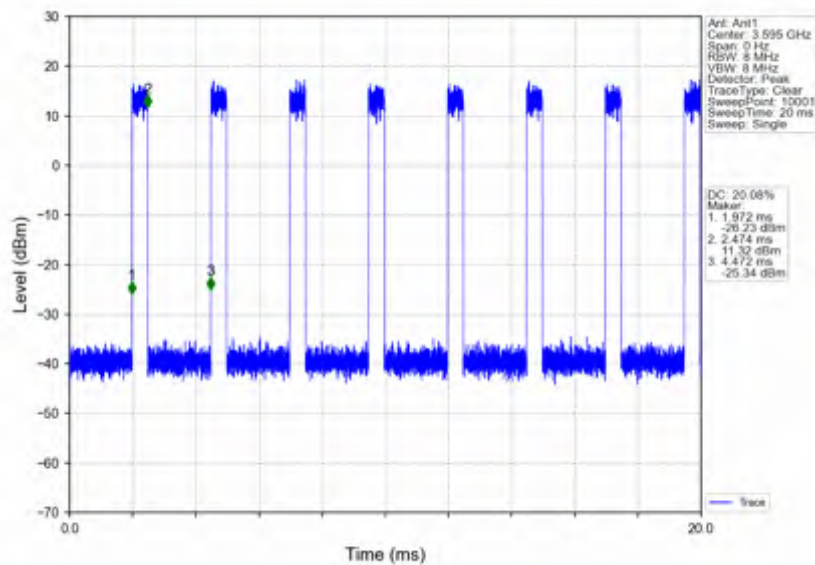
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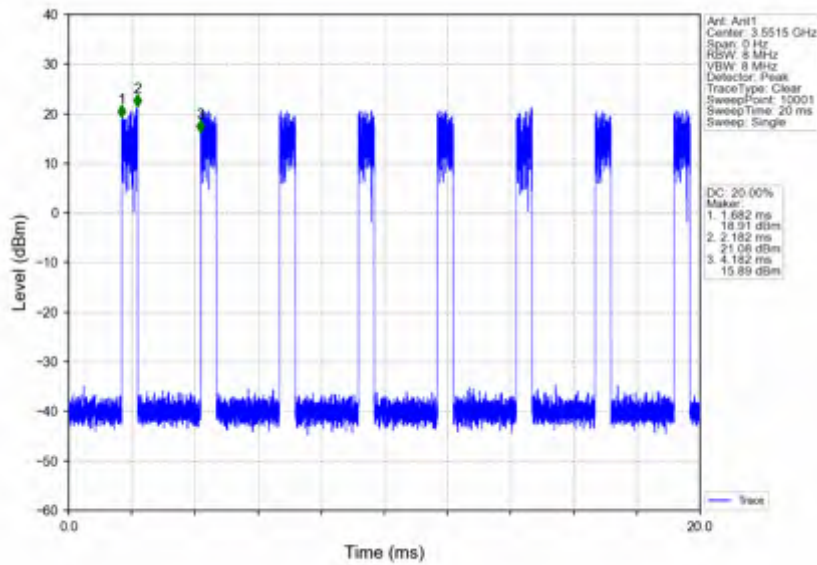


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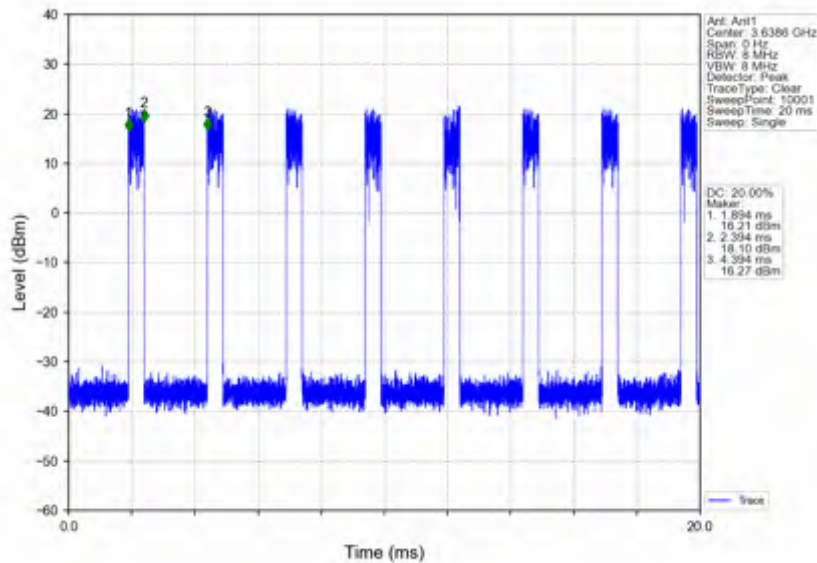
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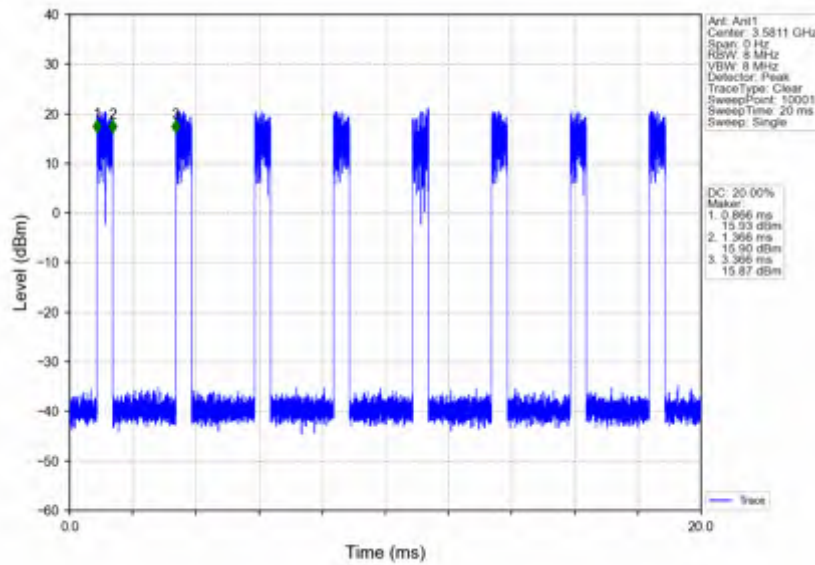


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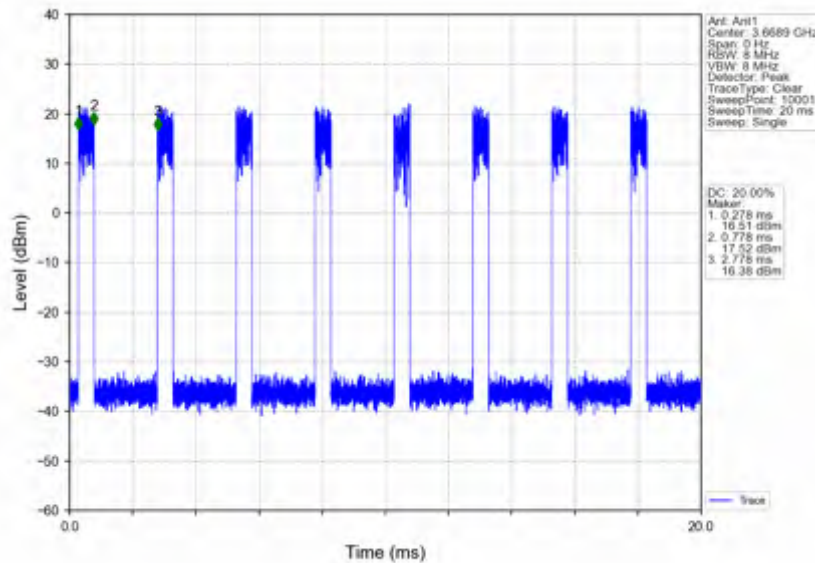
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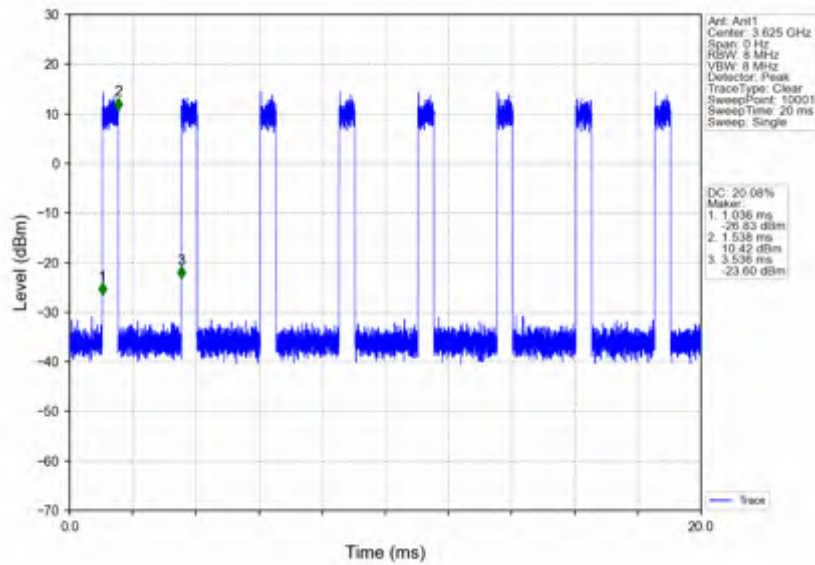
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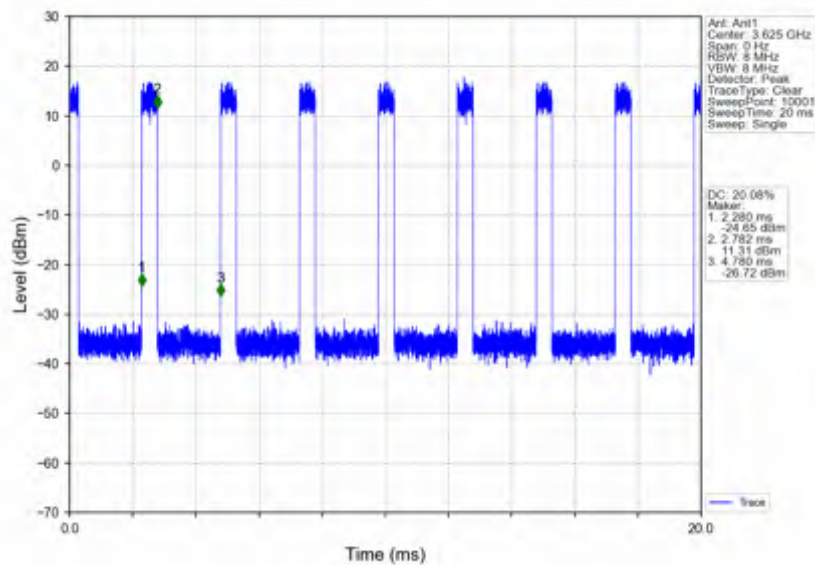
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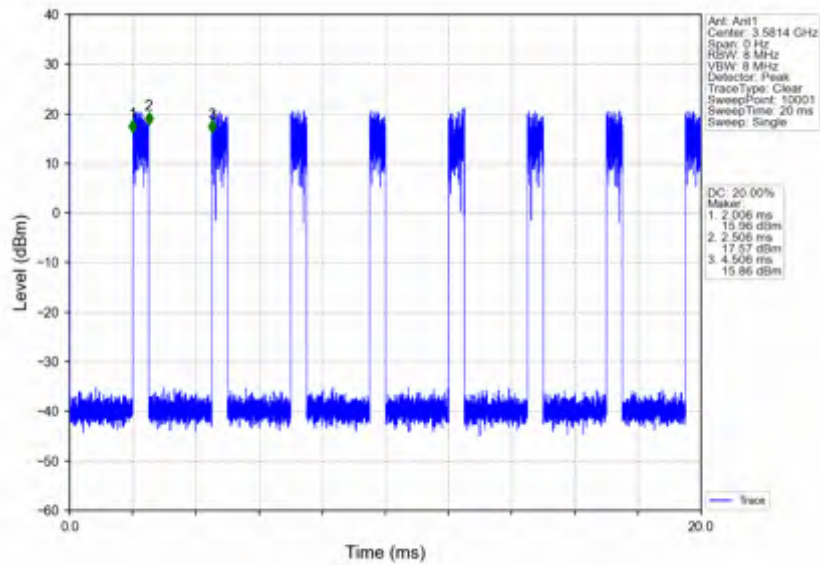
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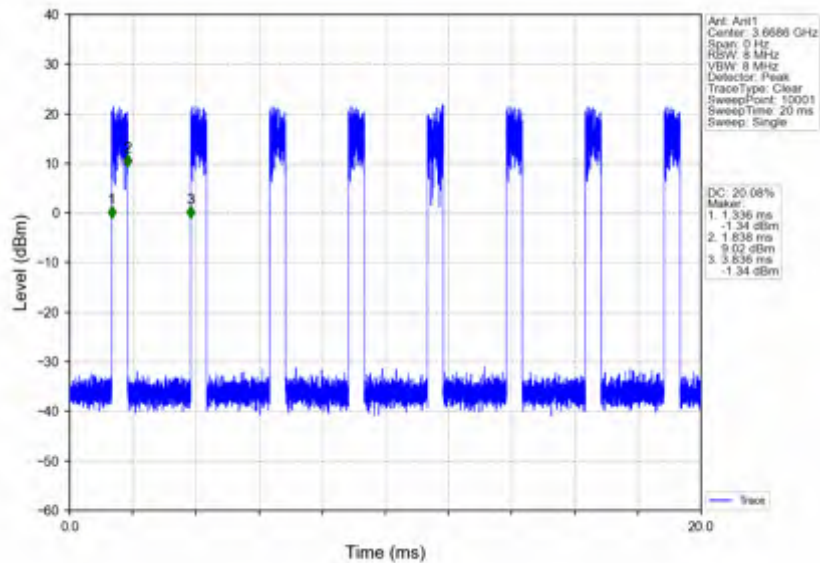
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3624.99MHz_Inner_1RB_Left



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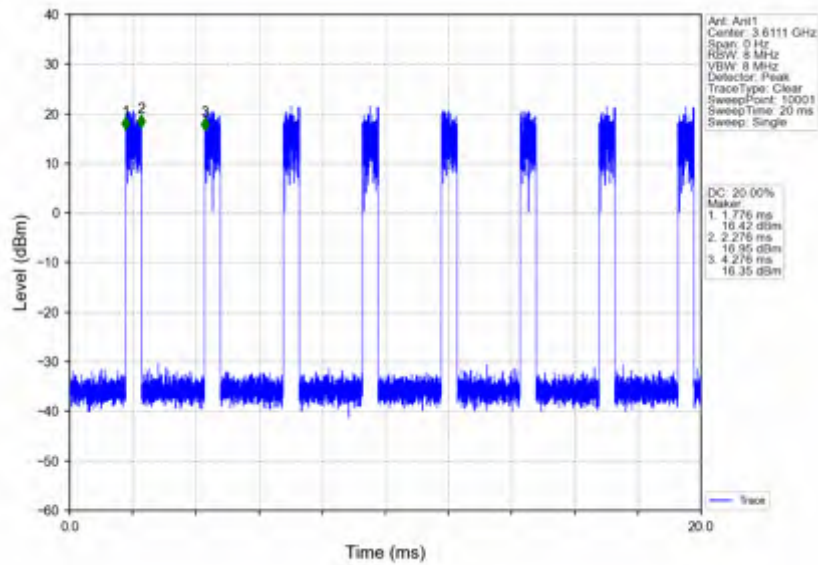
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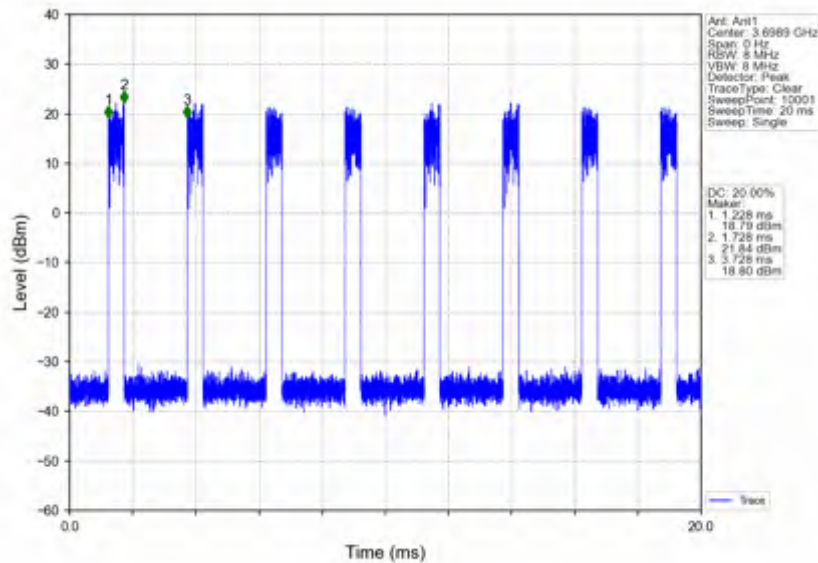
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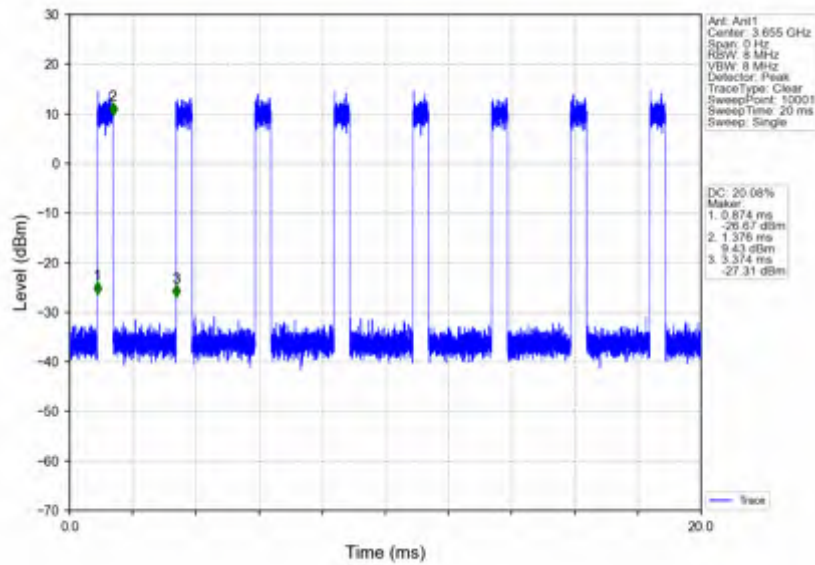


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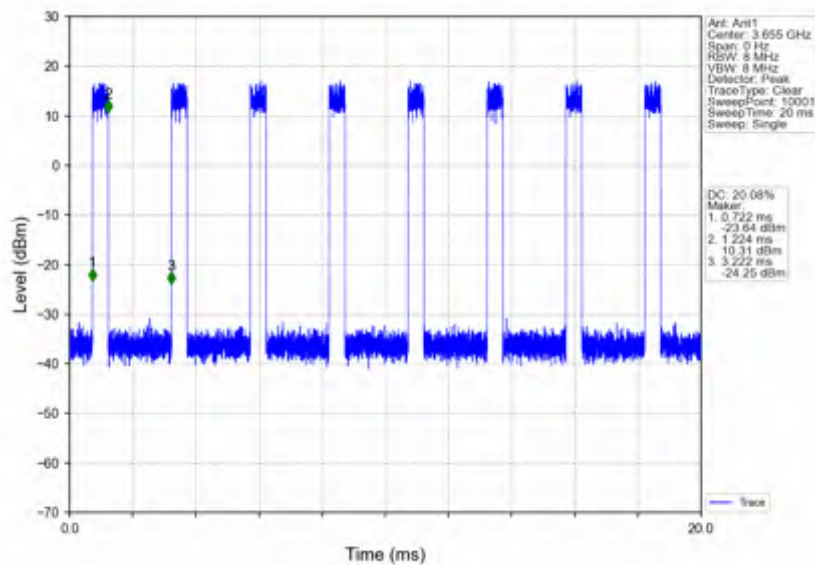
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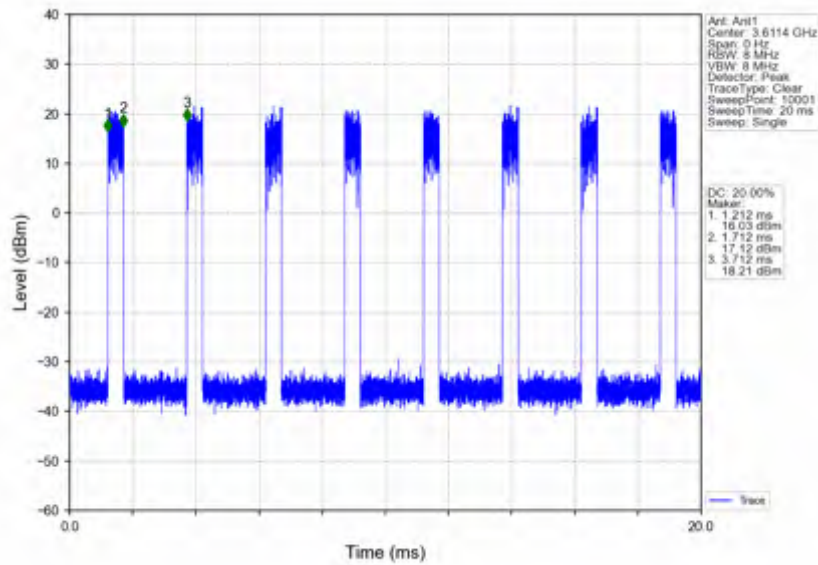
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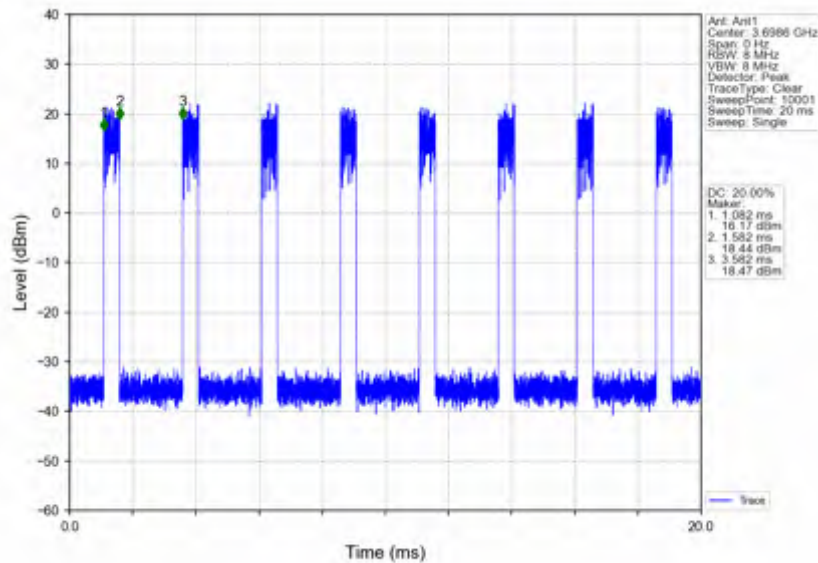
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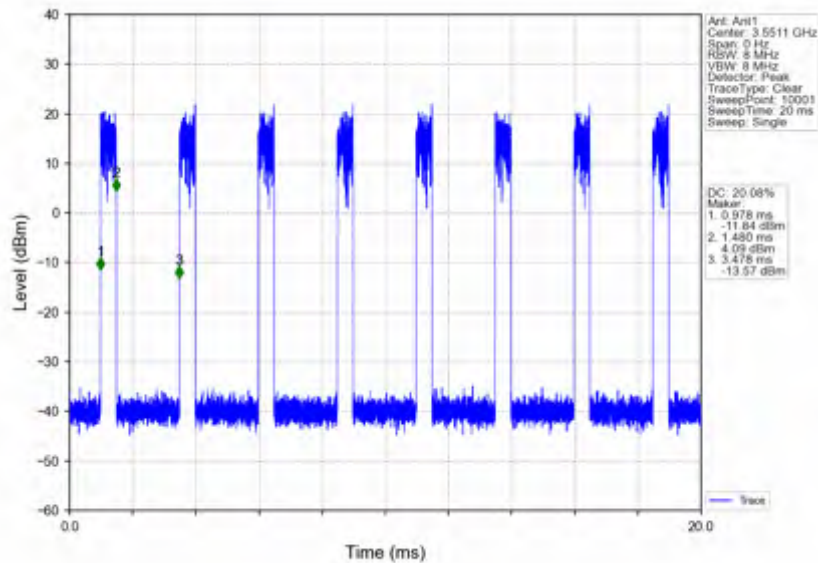


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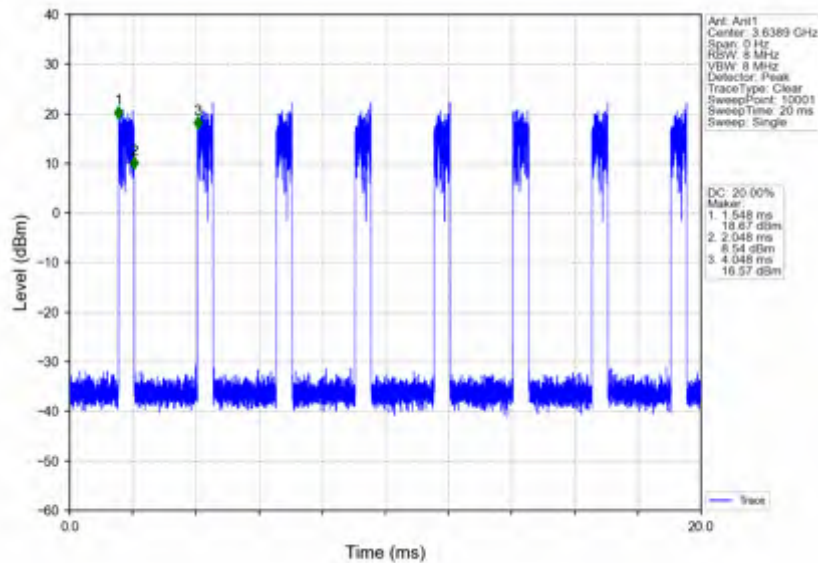
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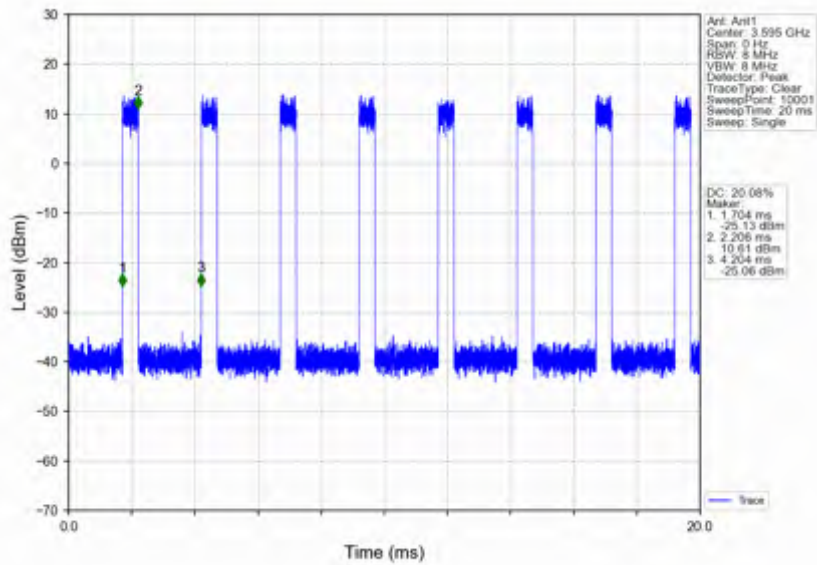


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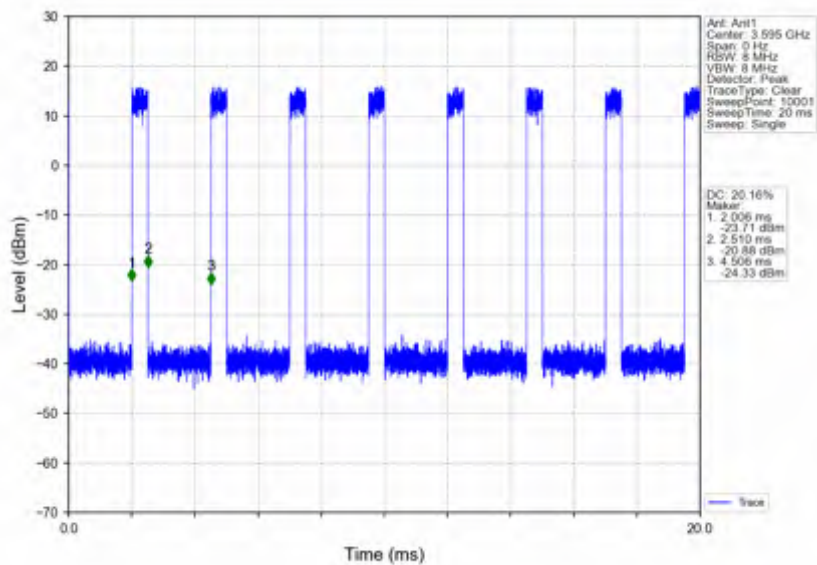
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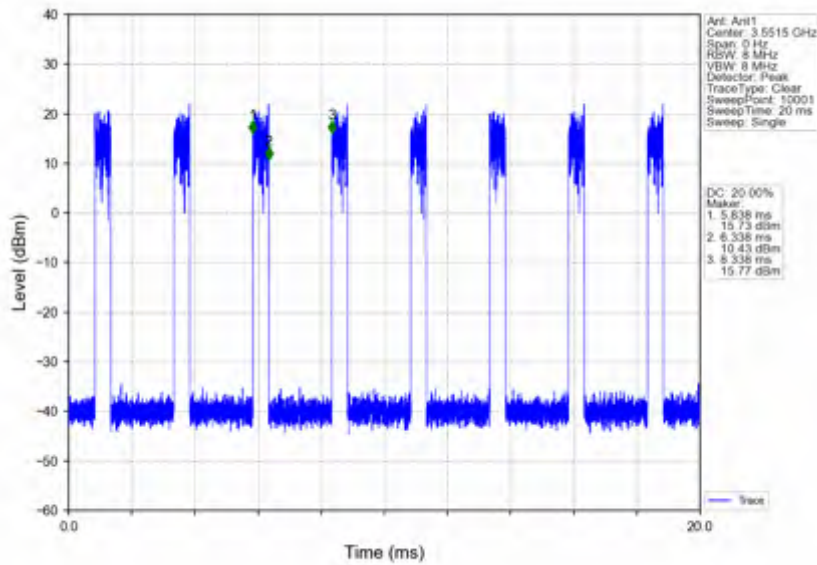


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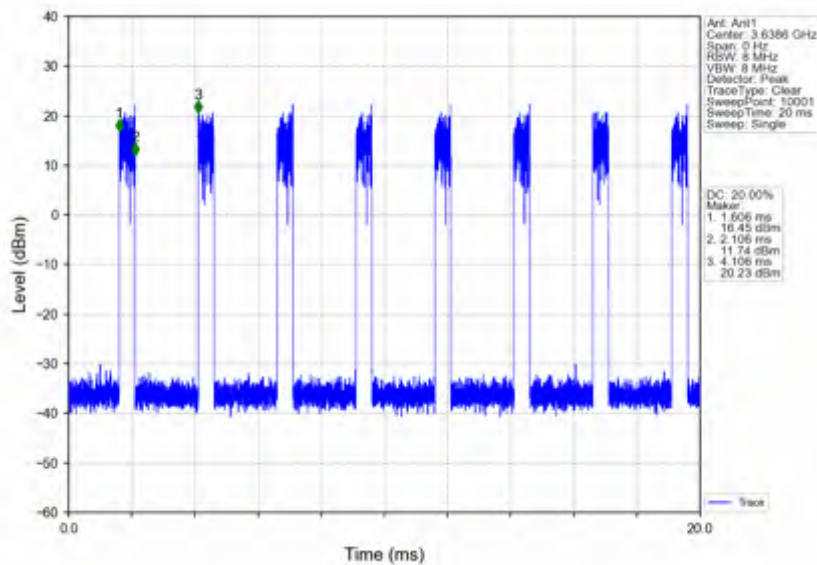
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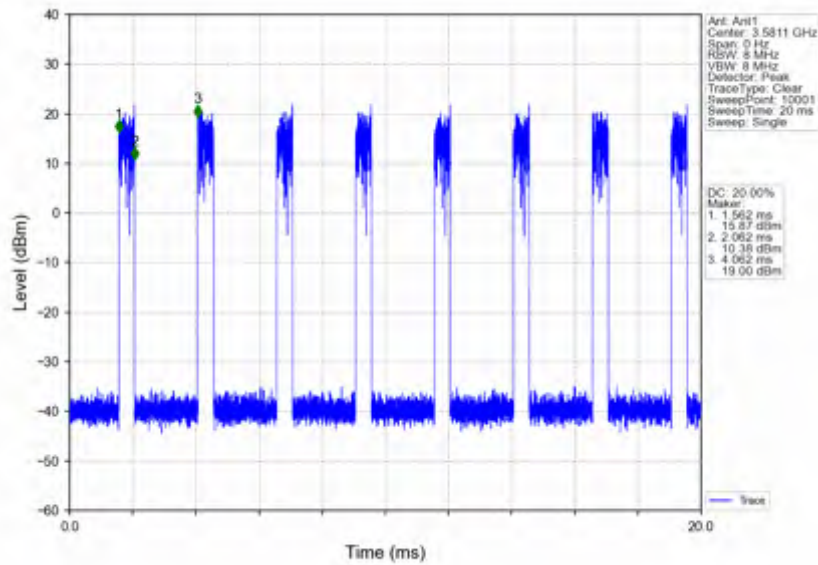


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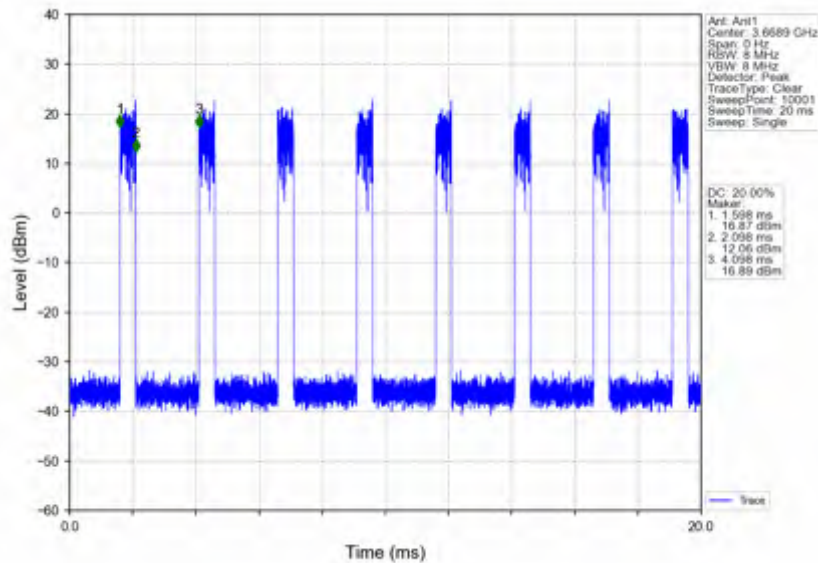
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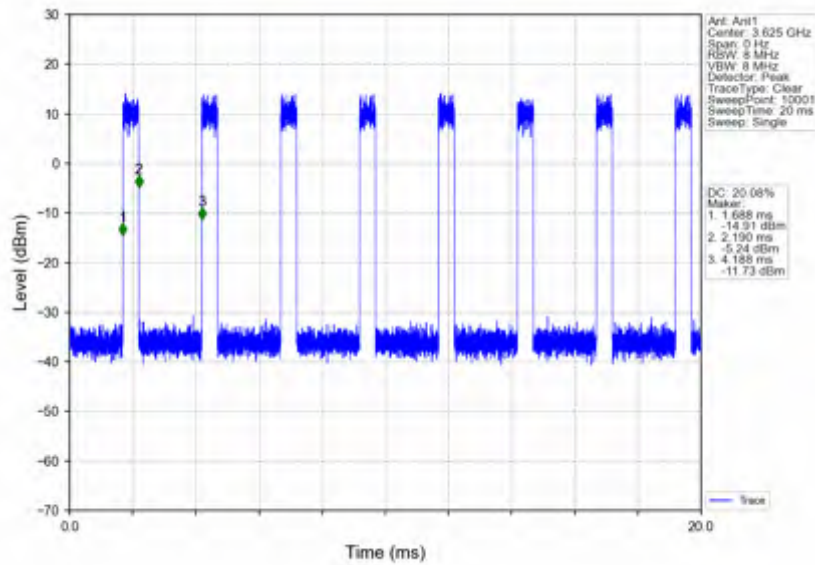


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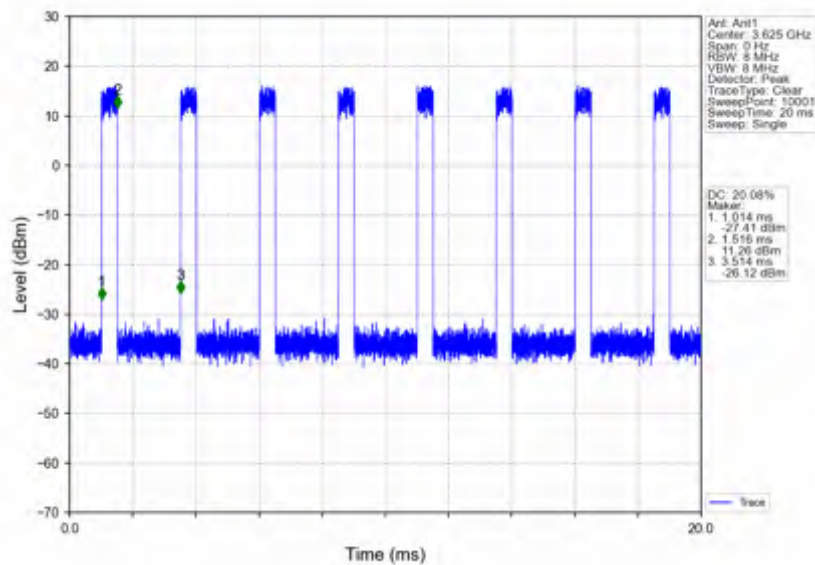
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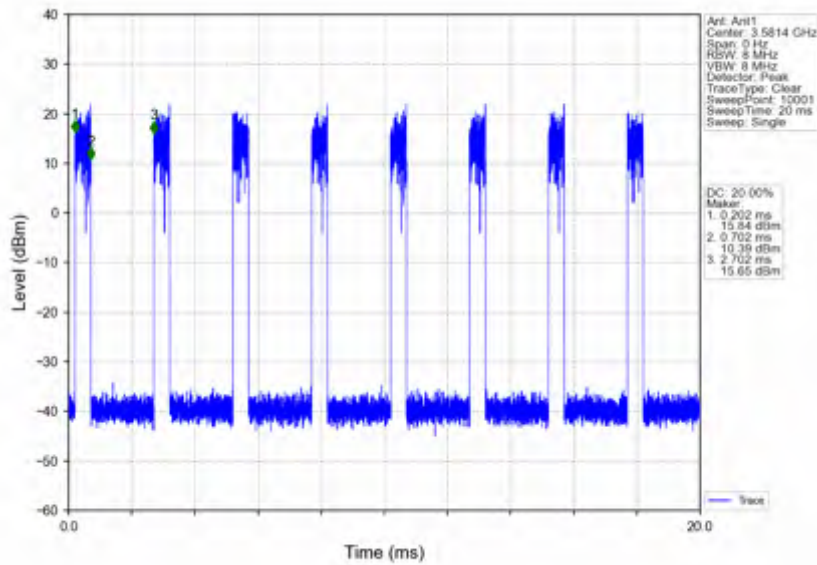


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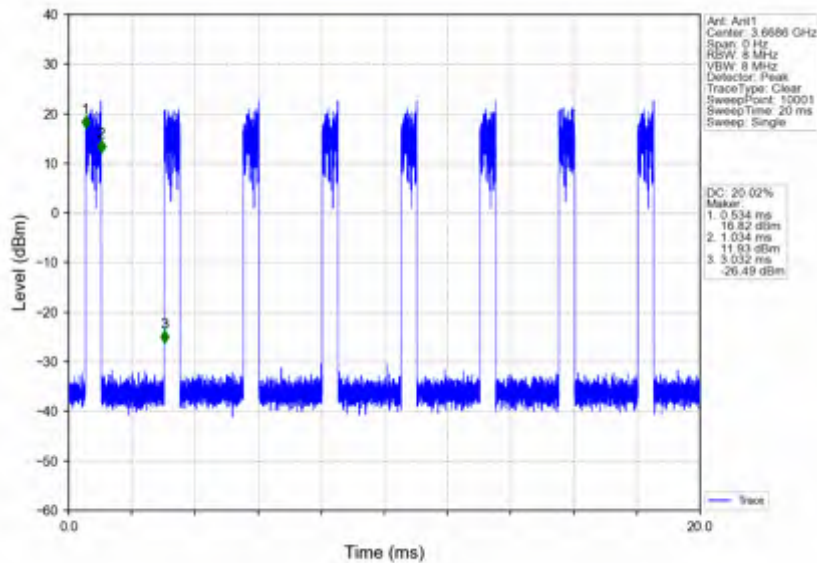
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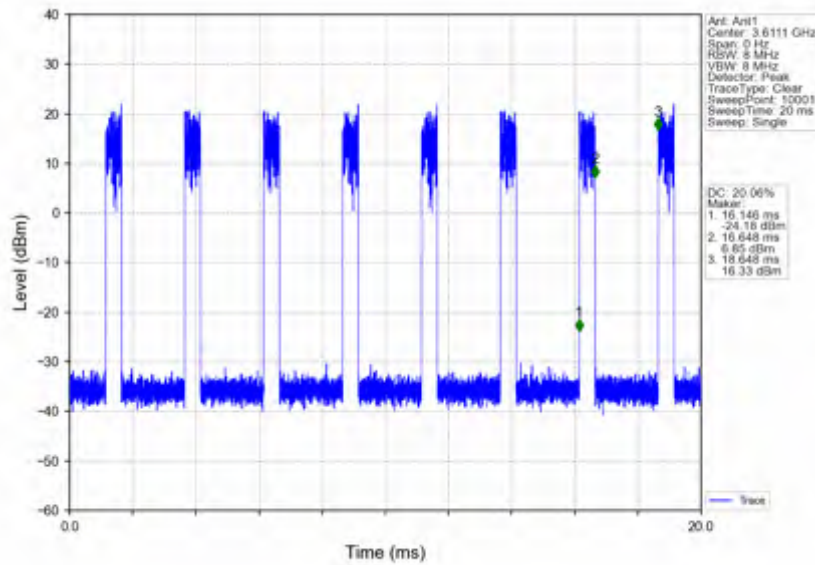
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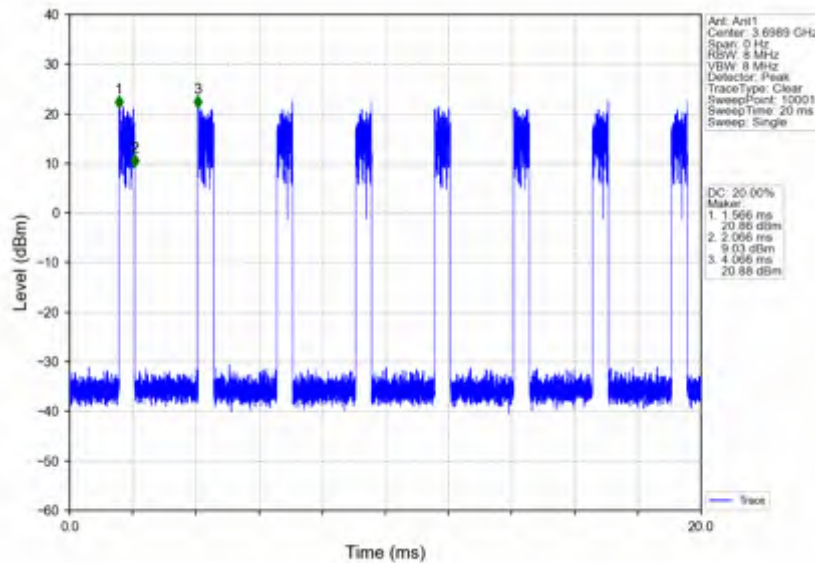
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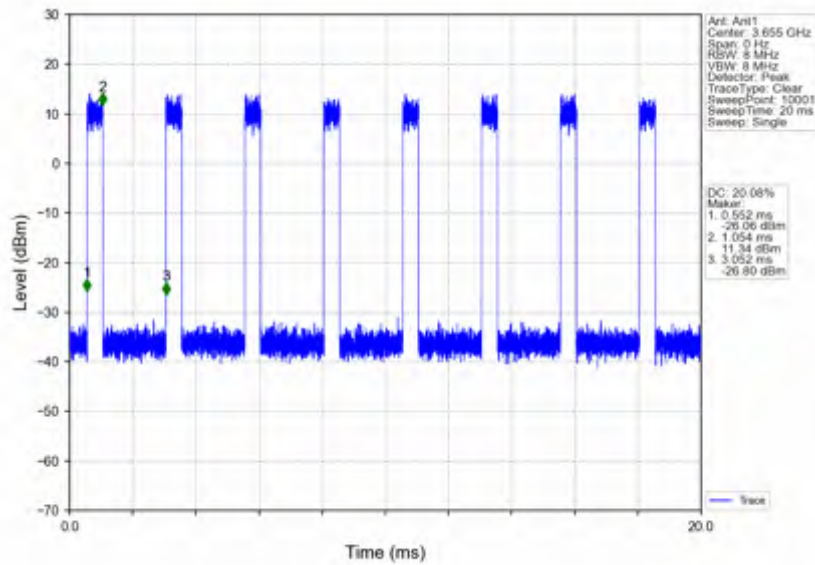


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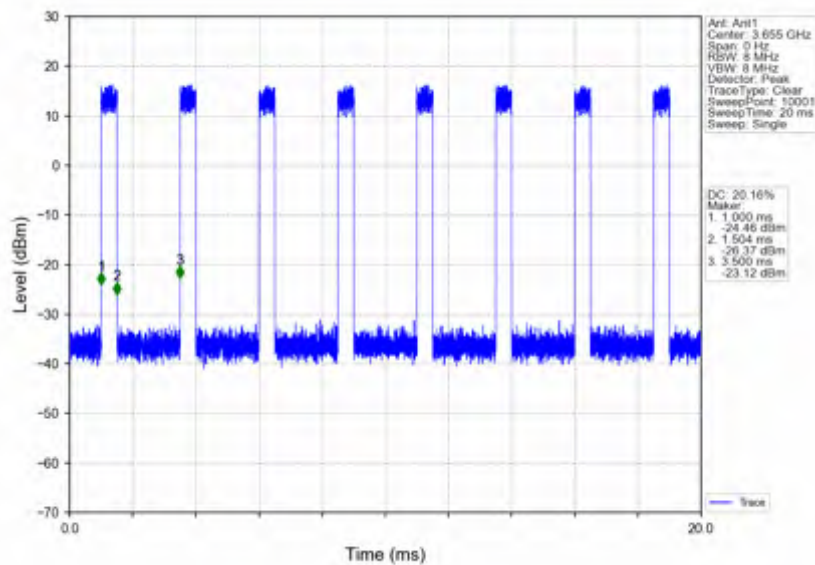
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3654.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3654.99MHz_Inner_Full

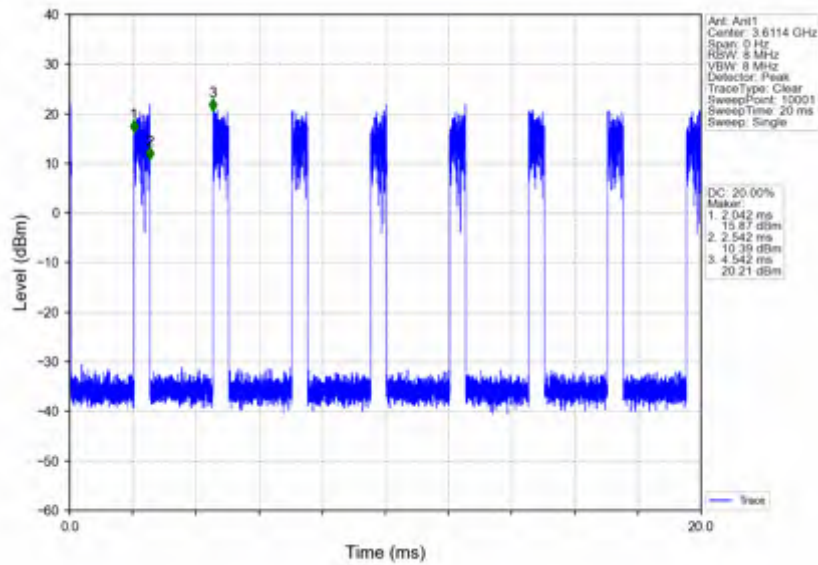


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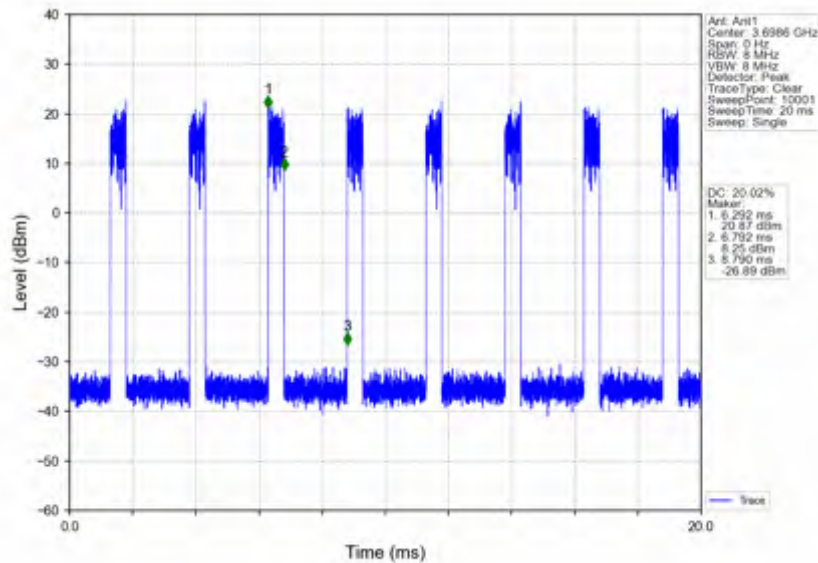
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 0512-57350883 0512-57370011 sgs.china@sgs.com

n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3654.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3654.99MHz_Inner_1RB_Right



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1.19 30k_SISO_100MHz_NTNV

1.19.1 Test Result

5G NR n78d SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
DFT-s-OFDM PI/2 BPSK	3600	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.06
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.06
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.08
		Outer_Full	0.504	2.500	20.16	6.96	0.08
		Inner_Full	0.502	2.500	20.08	6.97	0.18
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.06
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3649.98	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.500	2.498	20.02	6.99	0.06
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
DFT-s-OFDM QPSK	3600	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.08
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
		Outer_Full	0.500	2.498	20.02	6.99	0.14
		Inner_Full	0.500	2.500	20.00	6.99	0.08
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
	3649.98	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.498	20.10	6.97	0.06
		Inner_Full	0.500	2.500	20.00	6.99	0.08
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
DFT-s-OFDM 16 QAM	3600	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.06
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3649.98		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.06
			Inner_Full	0.502	2.500	20.08	6.97	0.00
	DFT-s-OFDM 64 QAM	3600	Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
3624.99			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
3649.98			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.08
			Inner_Full	0.502	2.500	20.08	6.97	0.00
DFT-s-OFDM 256 QAM	3600	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.06	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00	
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.08
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3649.98		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.500	2.498	20.02	6.99	0.06
CP-OFDM QPSK	3600	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.08
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.08	
		Inner_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3649.98		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.500	2.498	20.02	6.99	0.06
			Inner_Full	0.502	2.500	20.08	6.97	0.08
	CP-OFDM 16 QAM	3600	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.498	20.02	6.99	0.06
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
3624.99			Outer_Full	0.502	2.500	20.08	6.97	0.08
			Inner_Full	0.502	2.500	20.08	6.97	0.08
			Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
3649.98			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.502	2.500	20.08	6.97	0.08
			Inner_Full	0.502	2.500	20.08	6.97	0.08
CP-OFDM 64 QAM	3600	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00	
		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
	3649.98		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
			Outer_Full	0.500	2.498	20.02	6.99	0.06
			Inner_Full	0.502	2.500	20.08	6.97	0.00
CP-OFDM 256 QAM	3600	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00	
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00



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 005-512157350888 006-51215737011 sgs.china@sgs.com

		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3649.98	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.500	2.500	20.00	6.99	0.08
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00

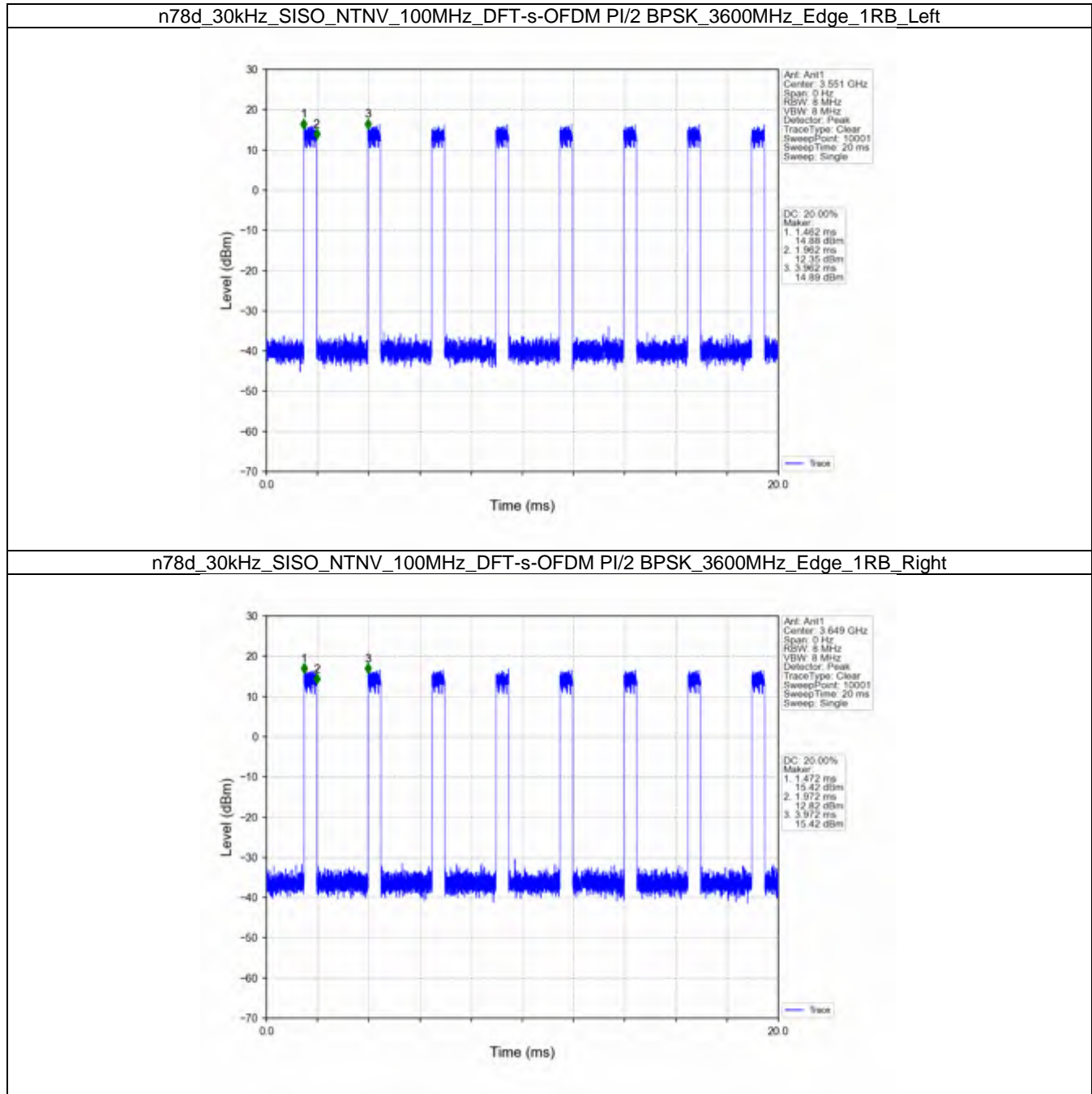


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1.19.2 Test Graph



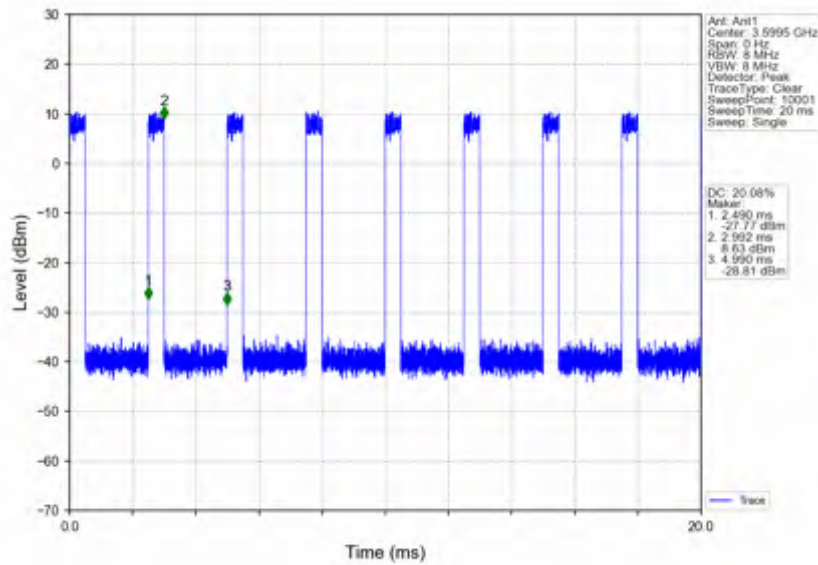
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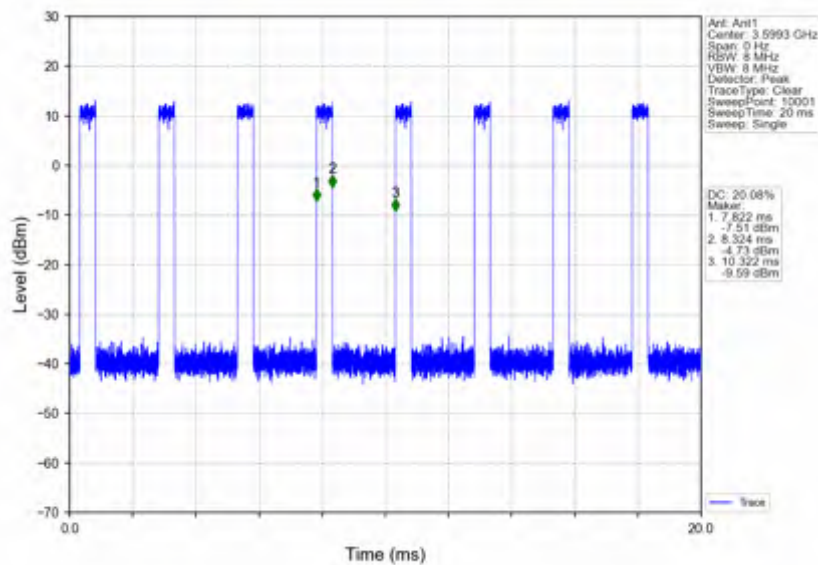
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3600MHz_Inner_Full

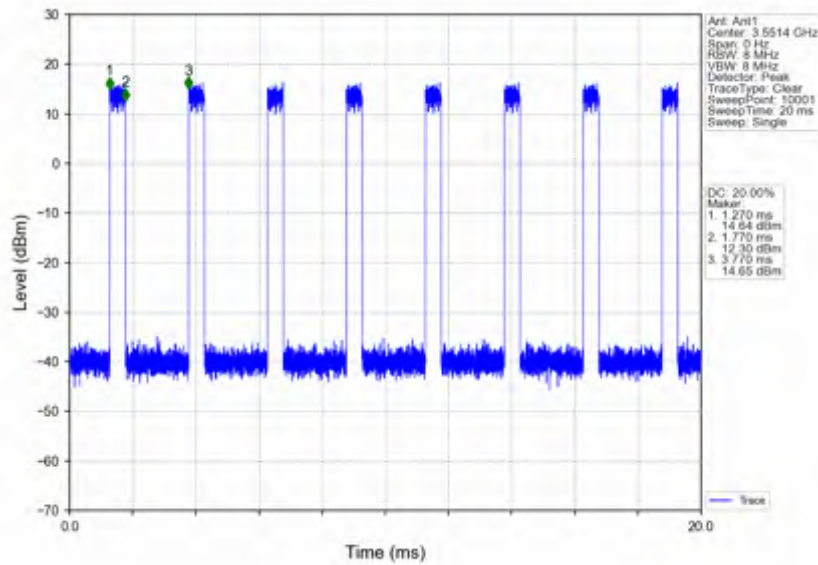


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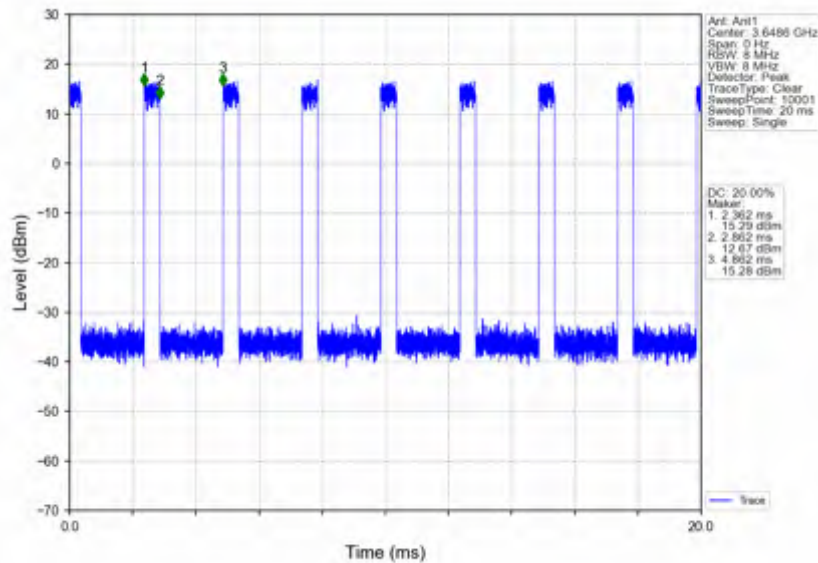
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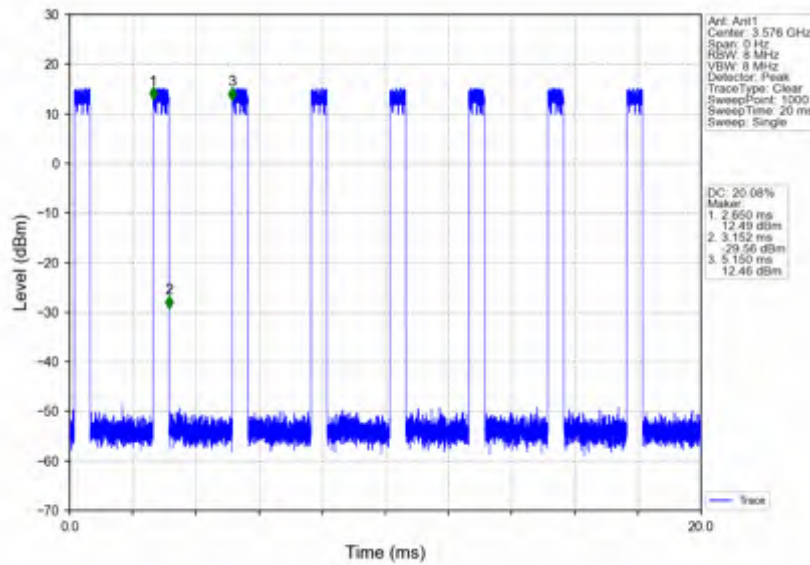


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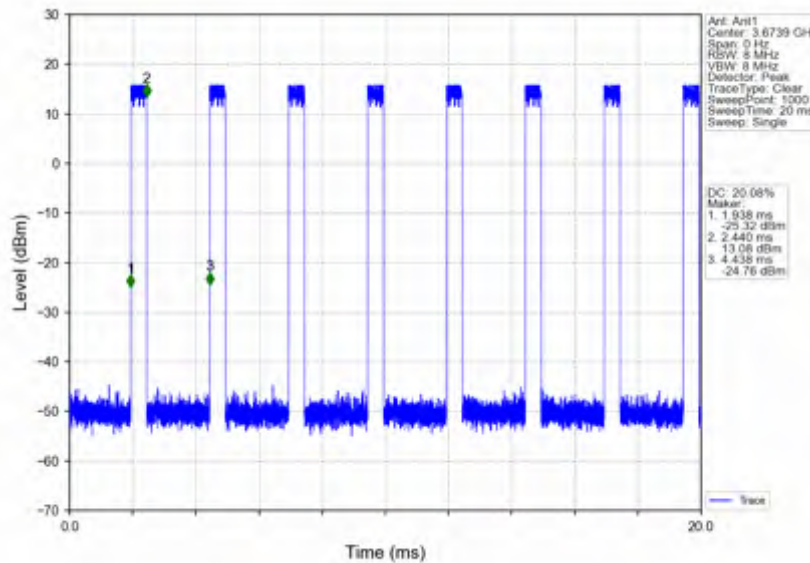
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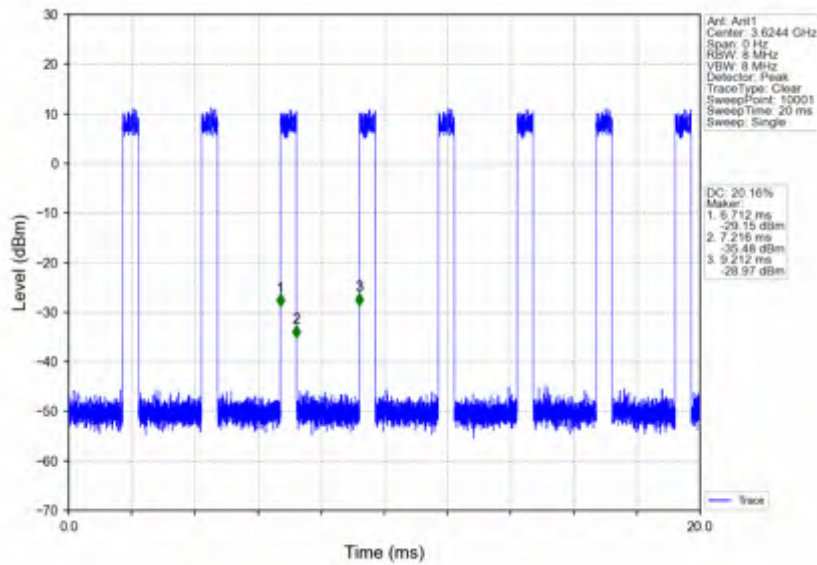
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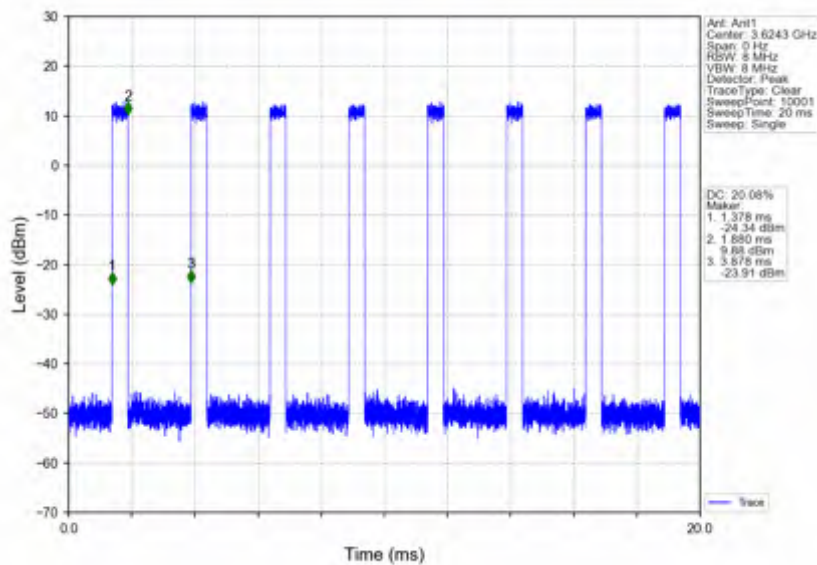
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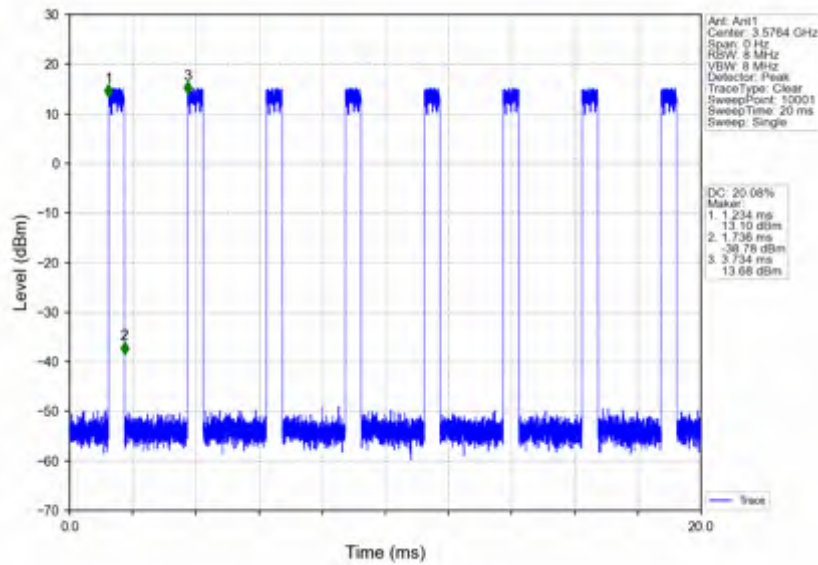
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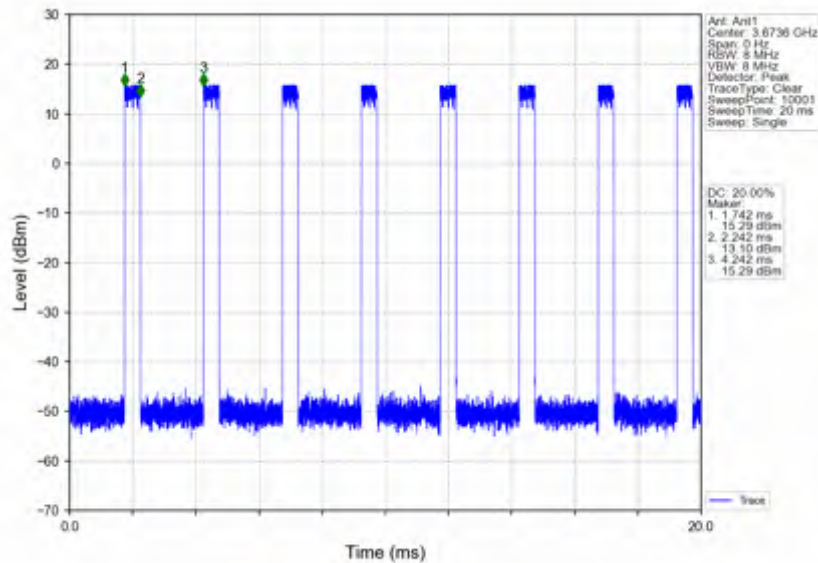
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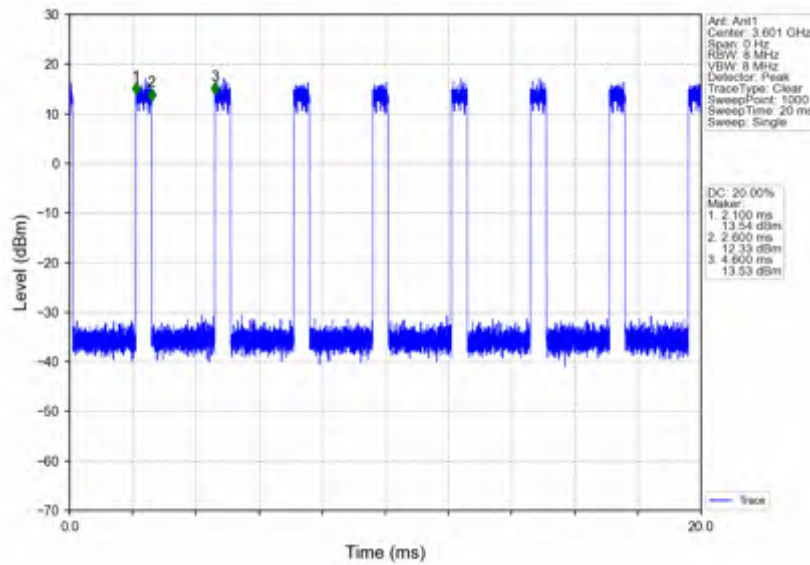
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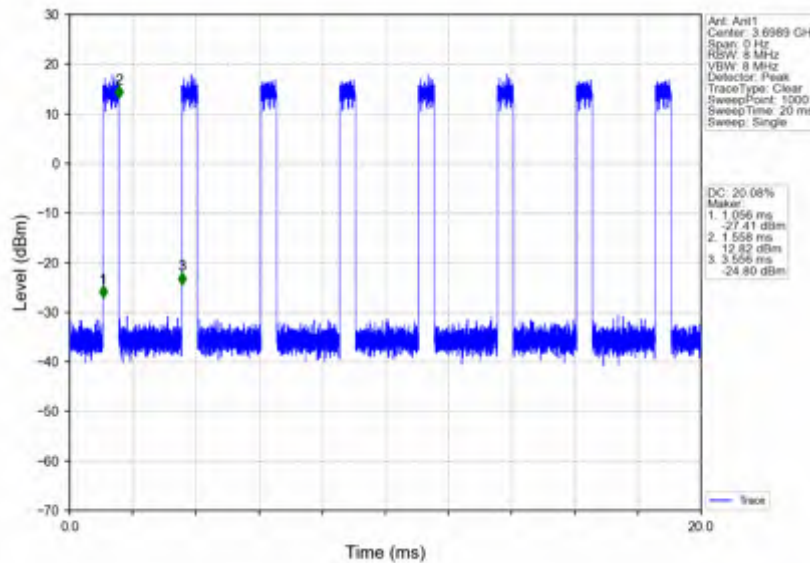
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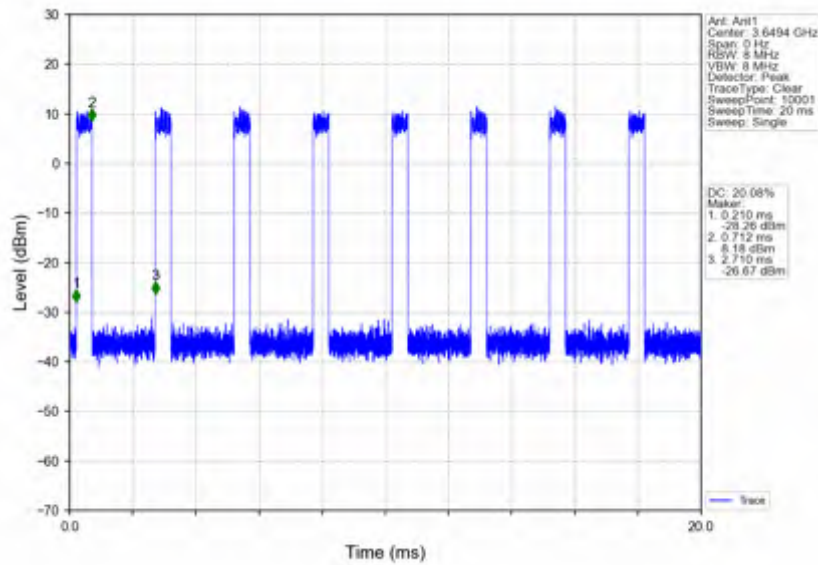
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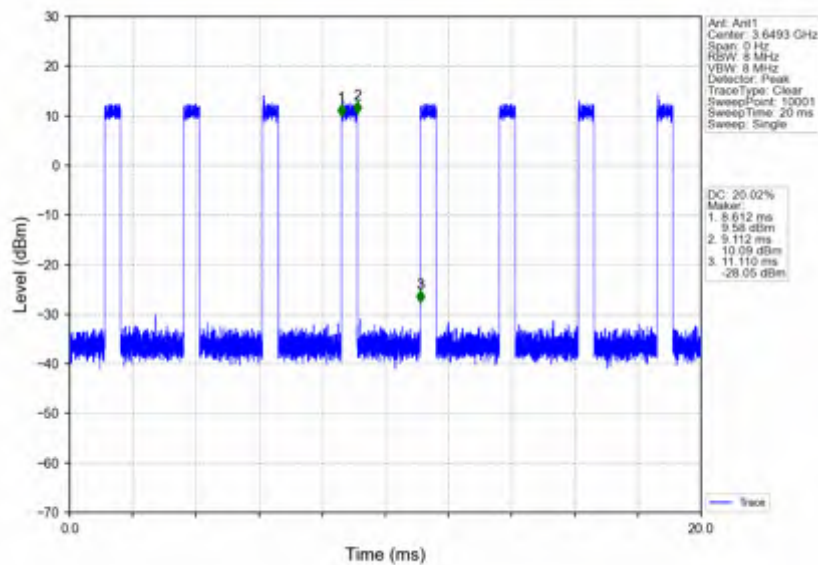
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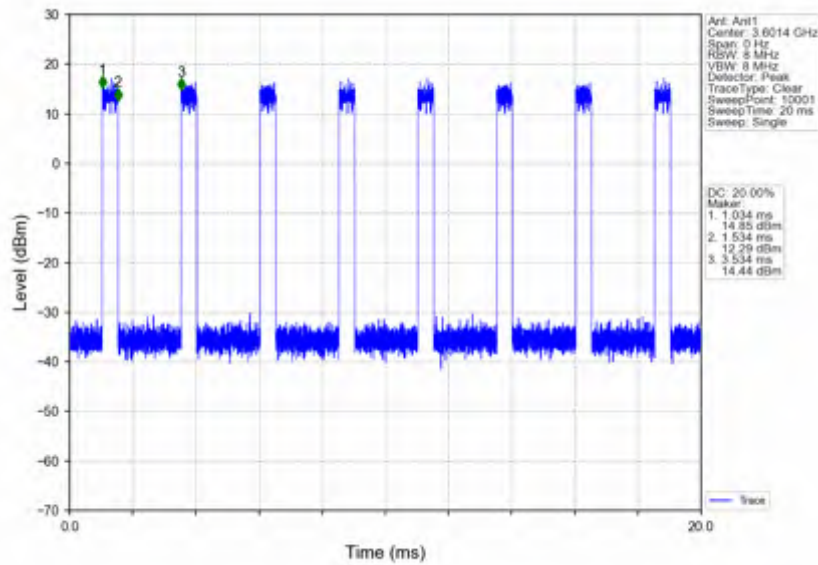
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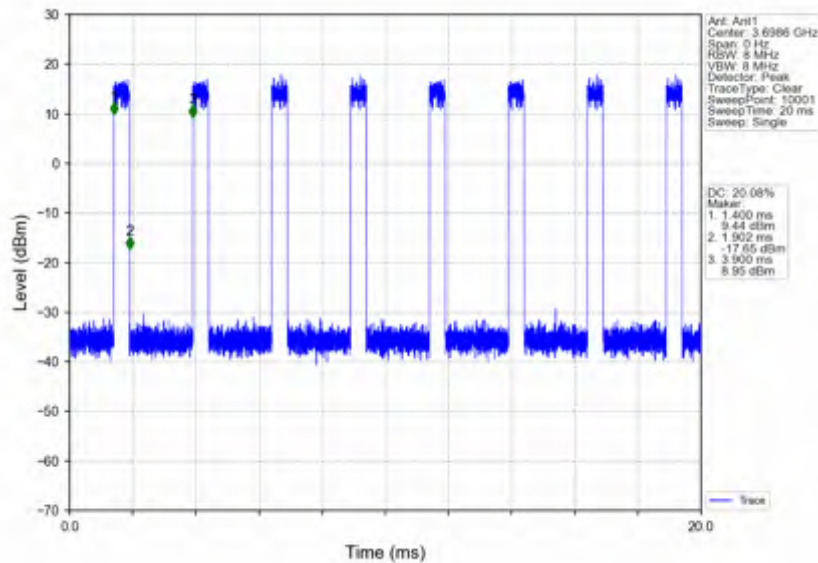
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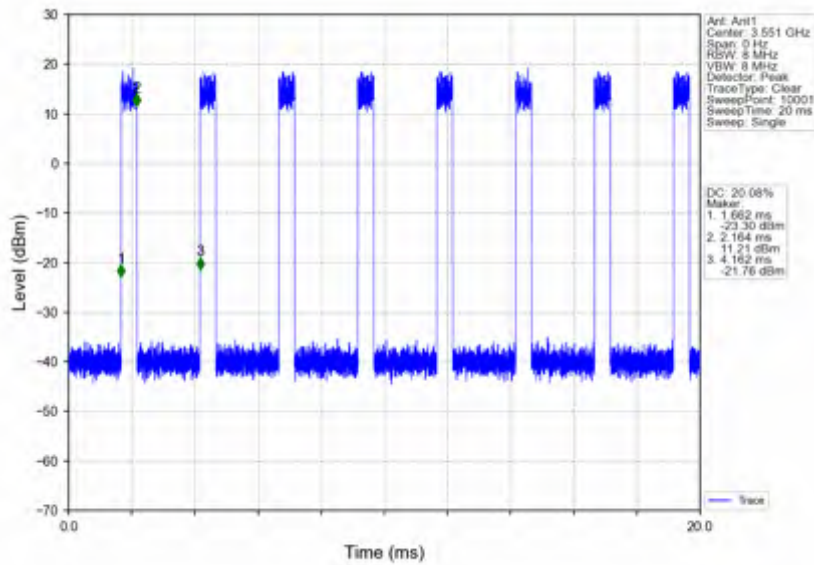


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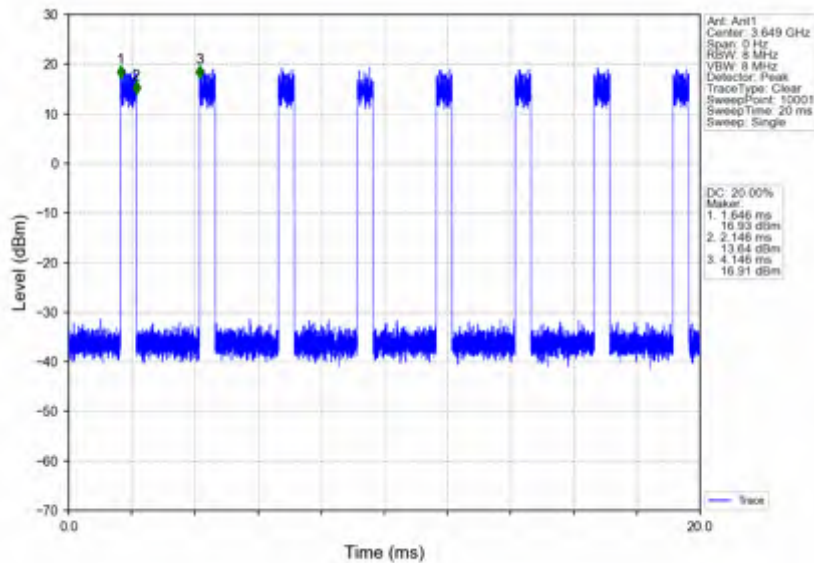
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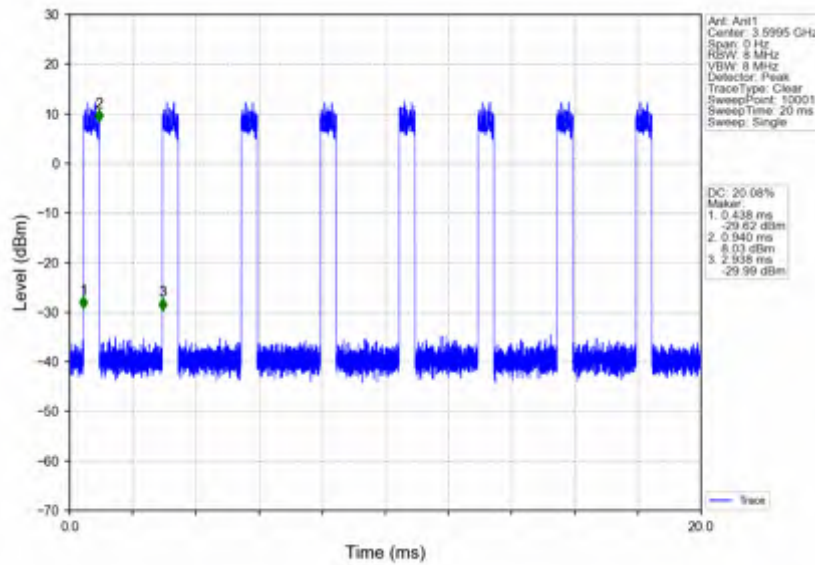


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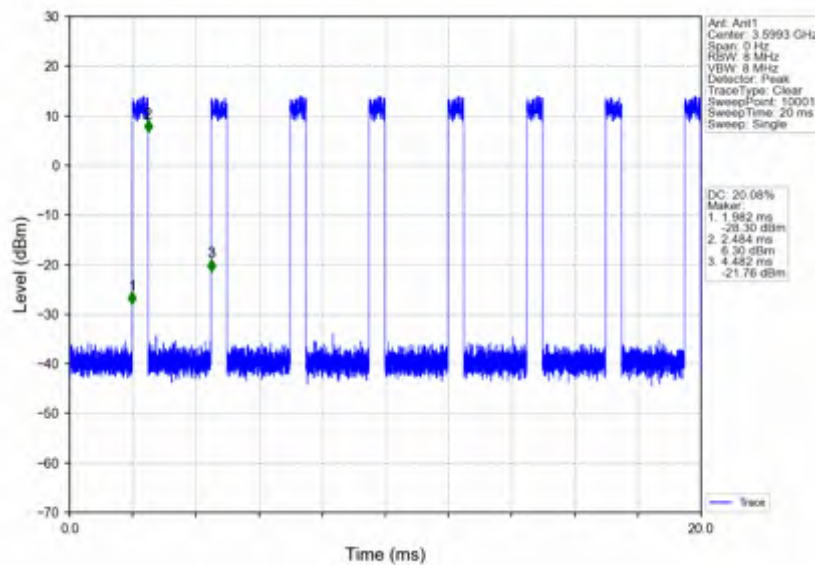
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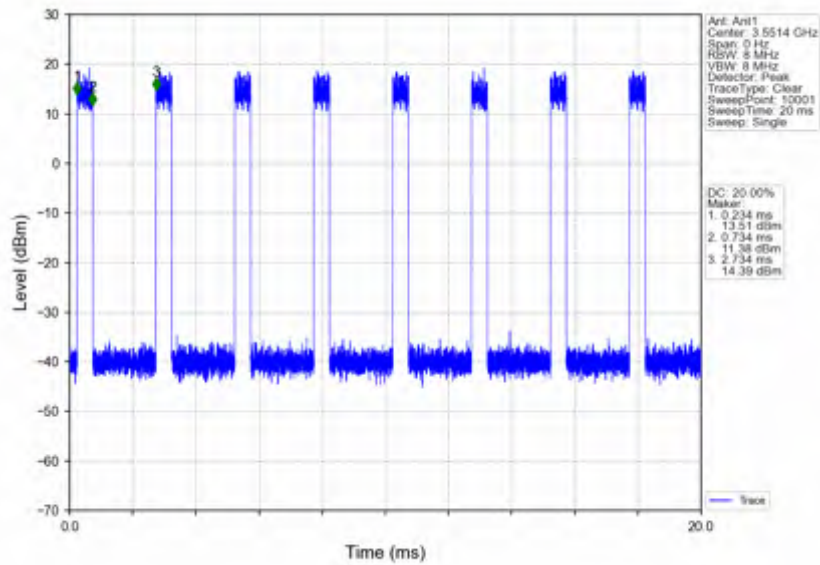
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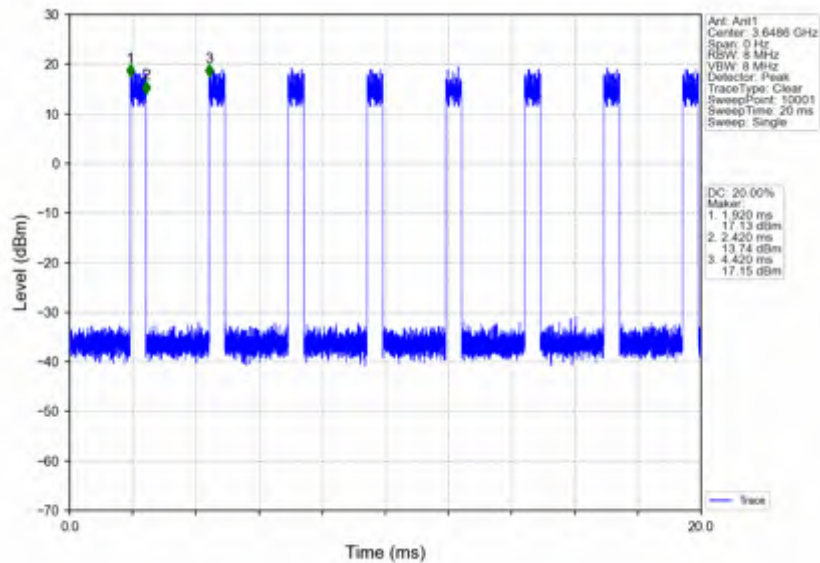
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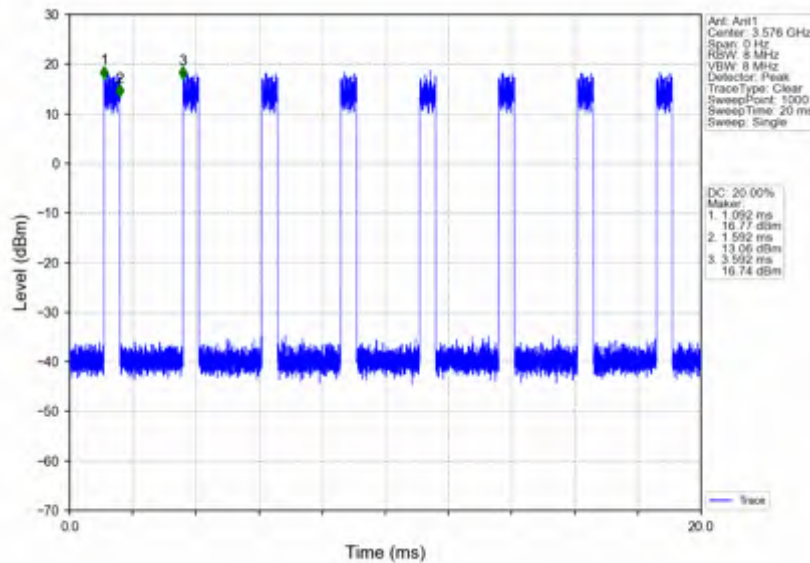


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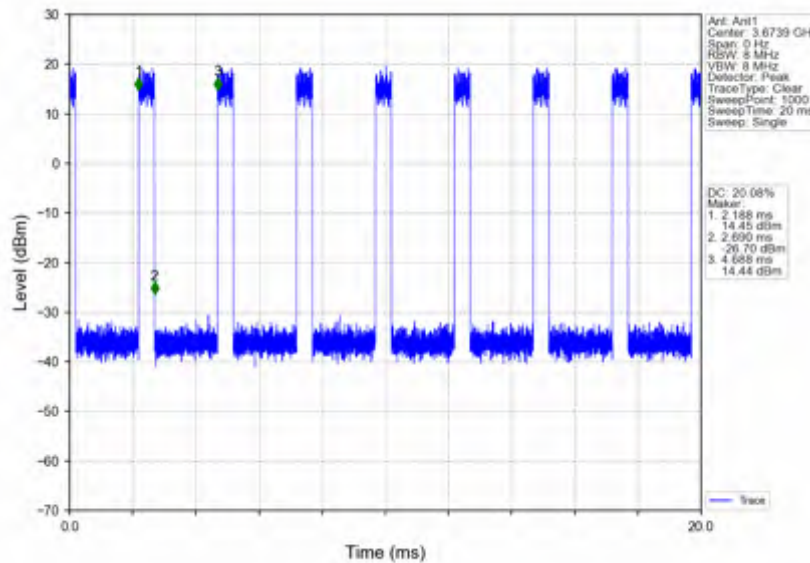
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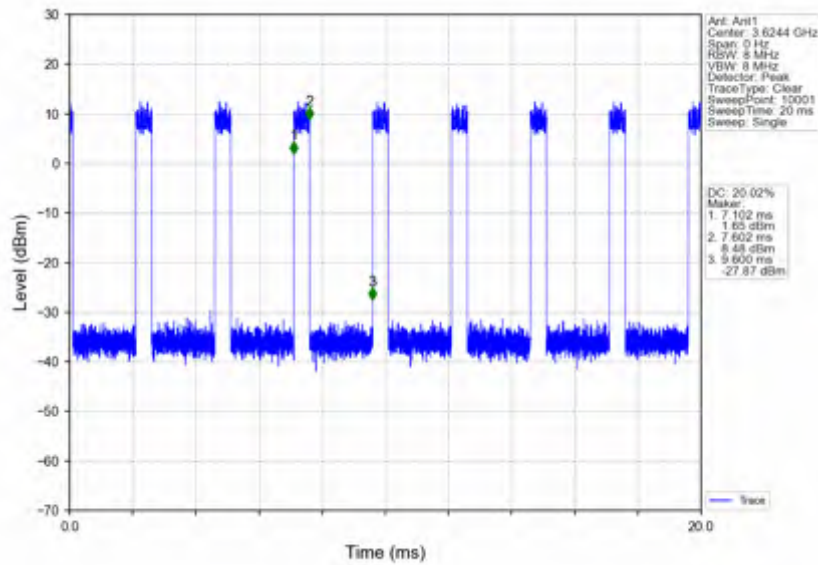


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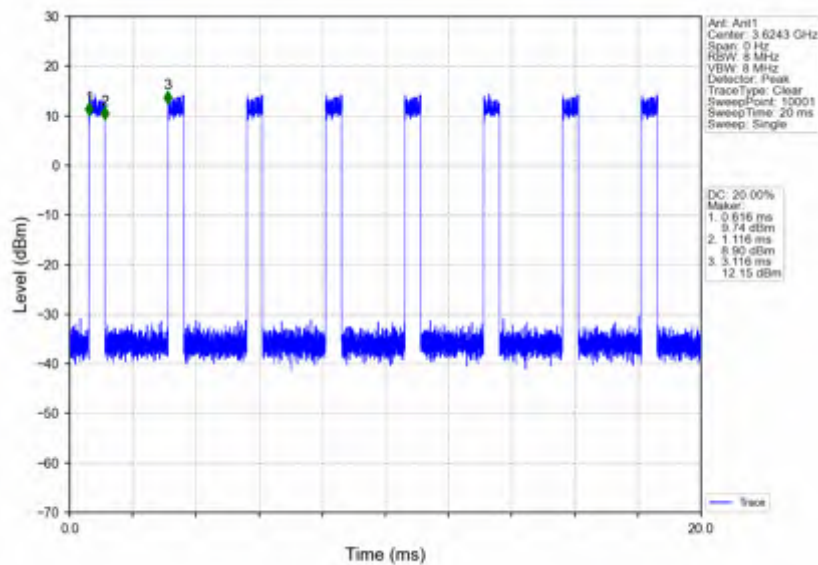
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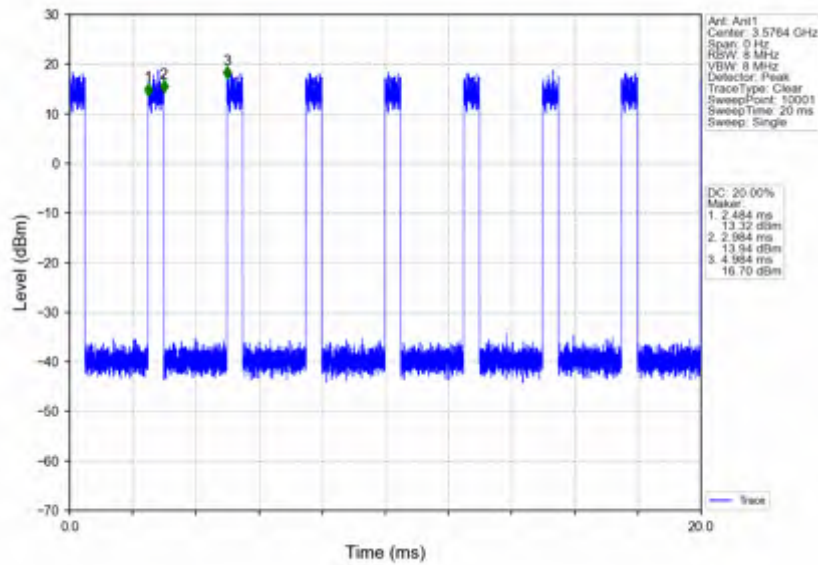


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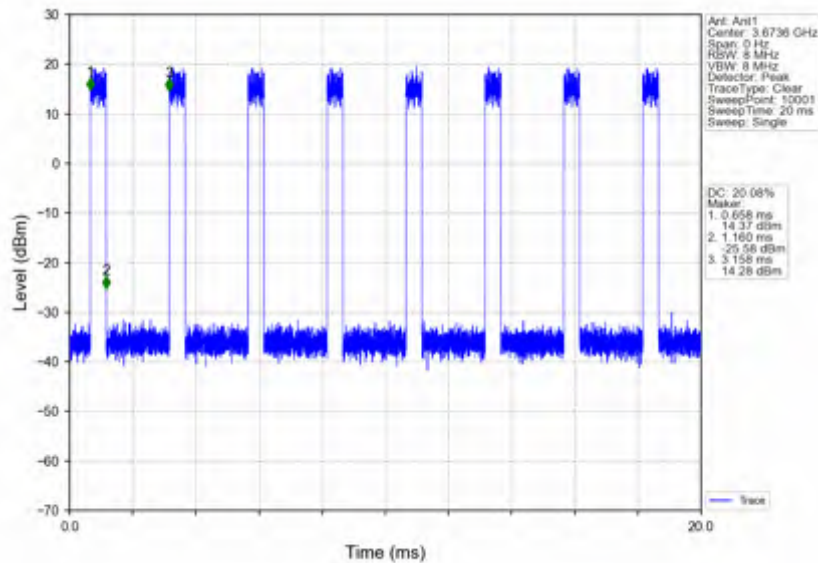
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3624.99MHz_Inner_1RB_Left



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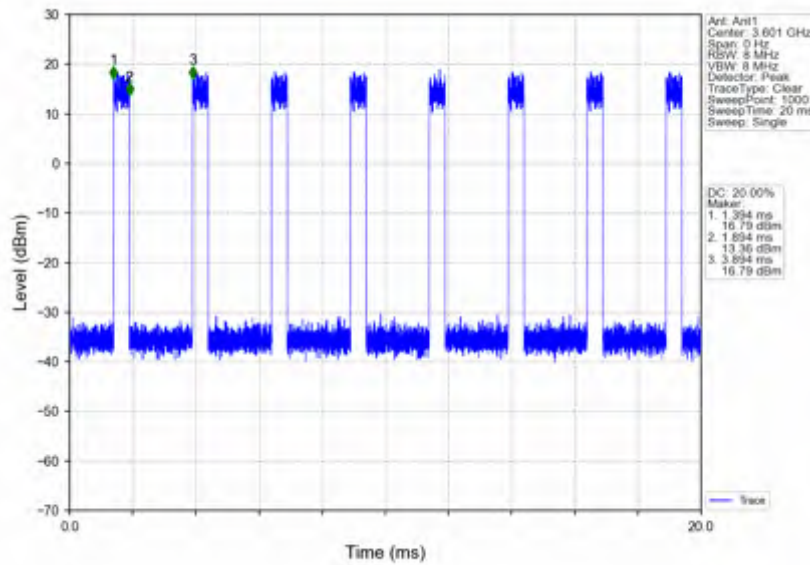


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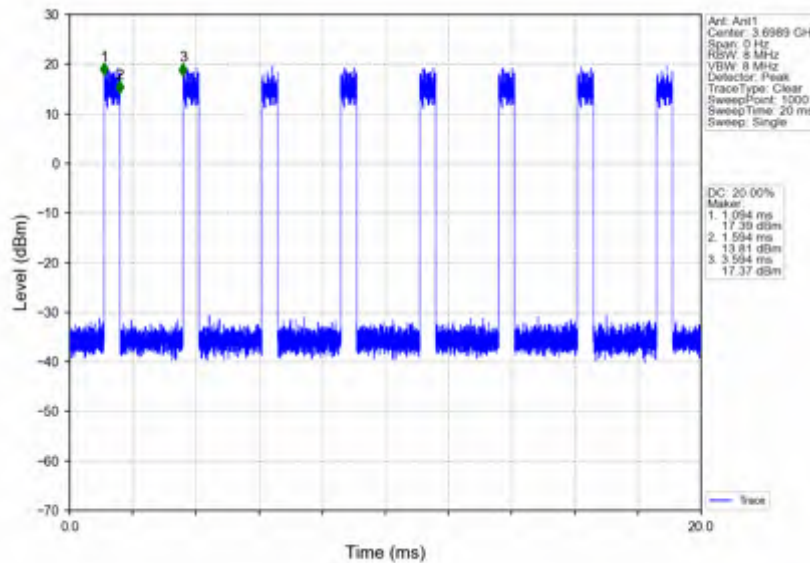
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3649.98MHz_Edge_1RB_Left



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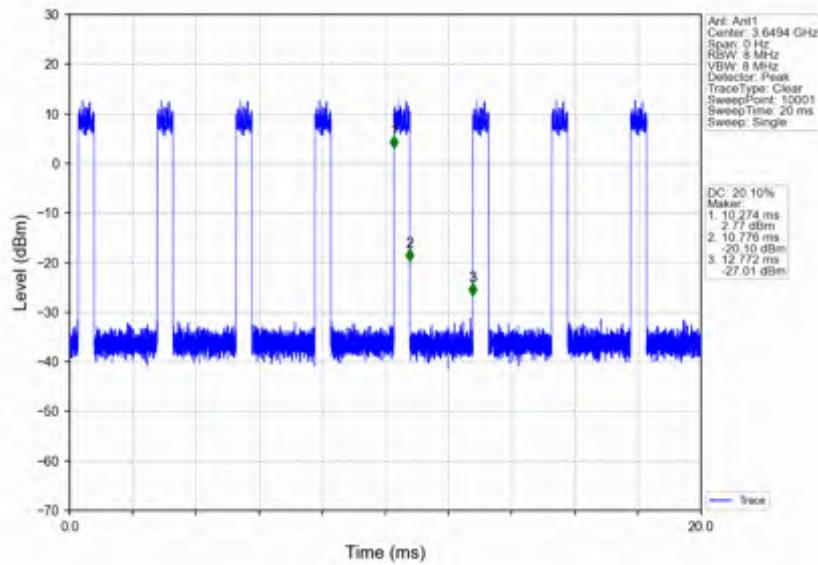


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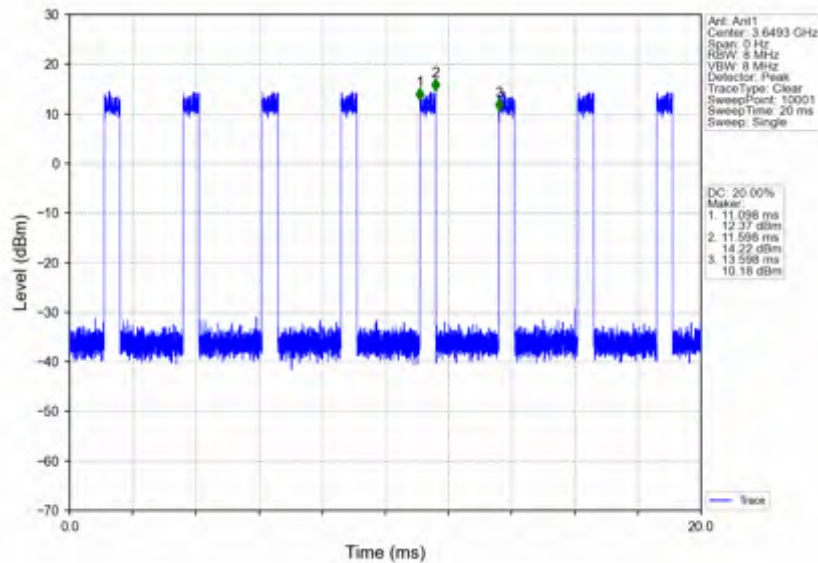
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3649.98MHz_Outer_Full



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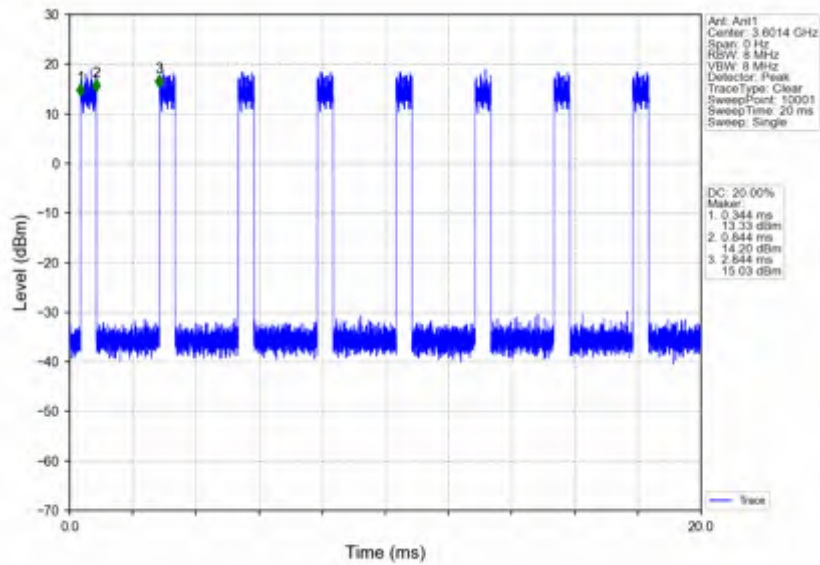


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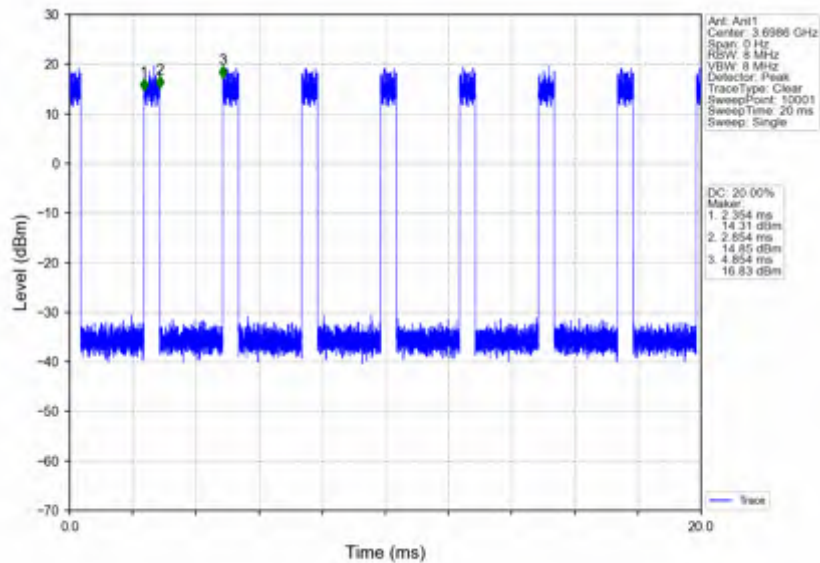
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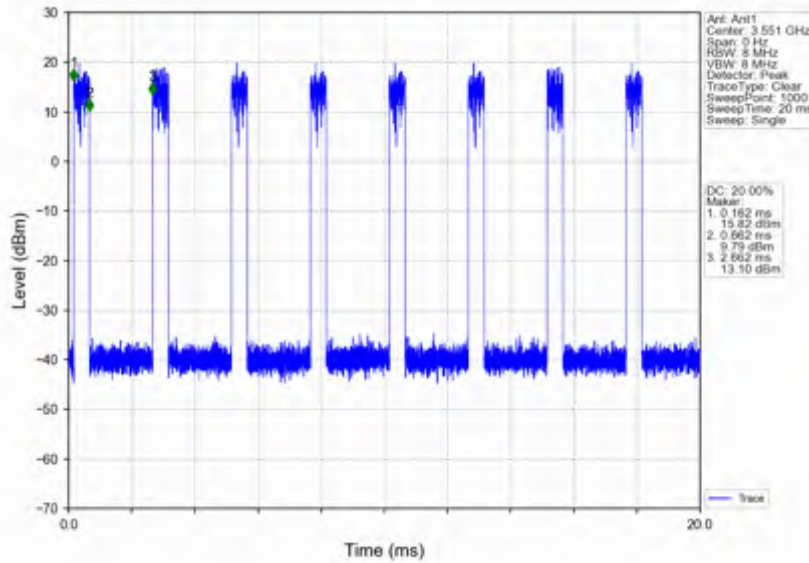


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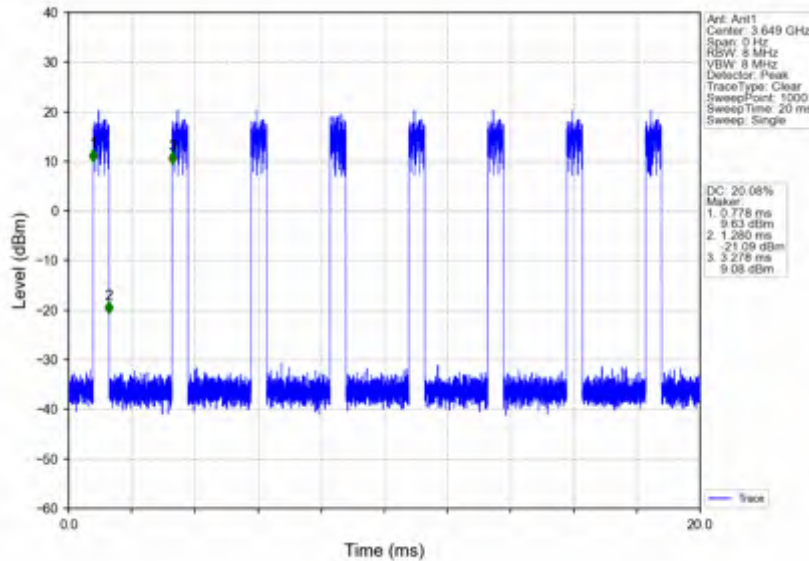
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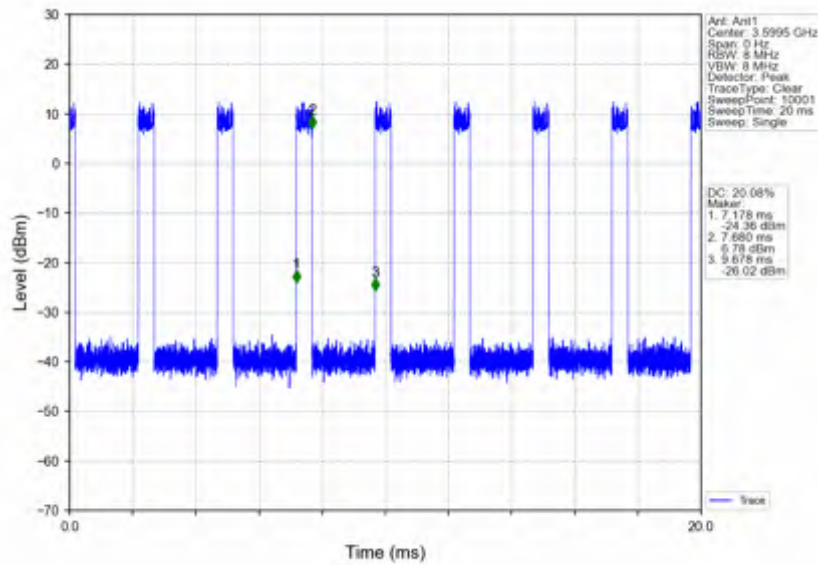
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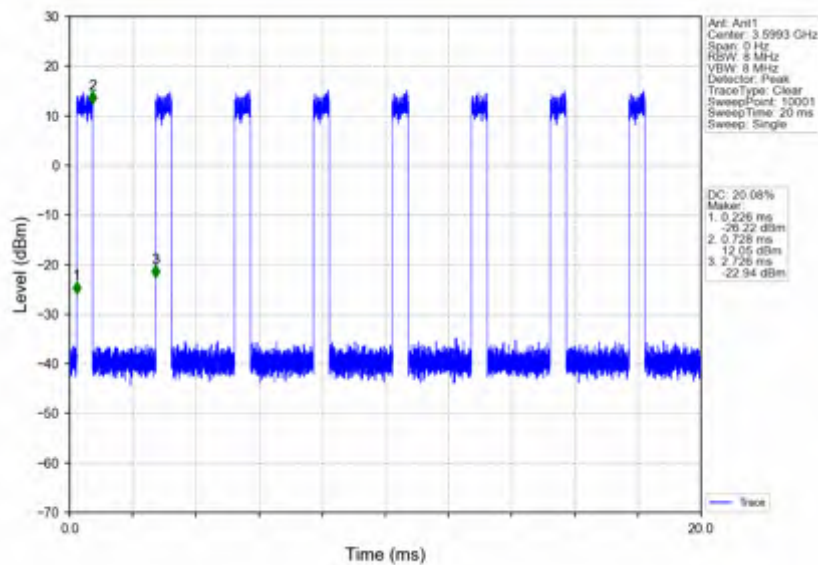
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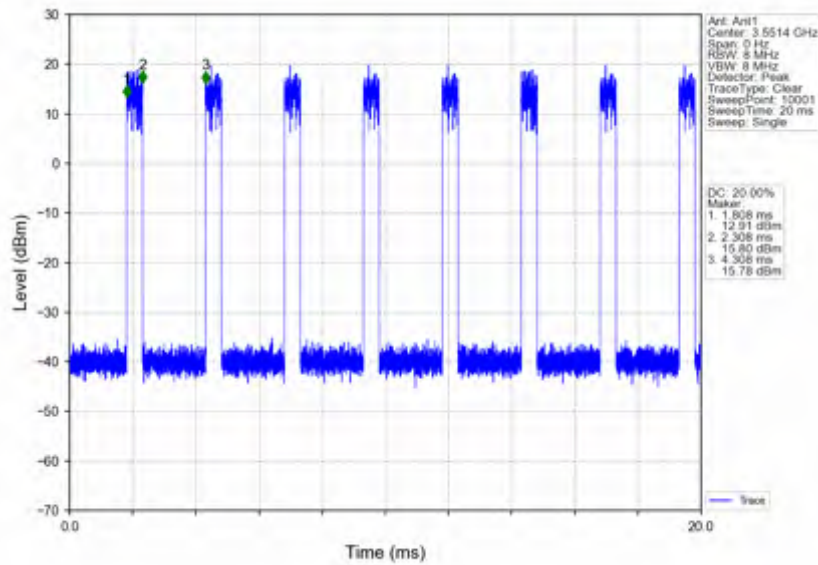
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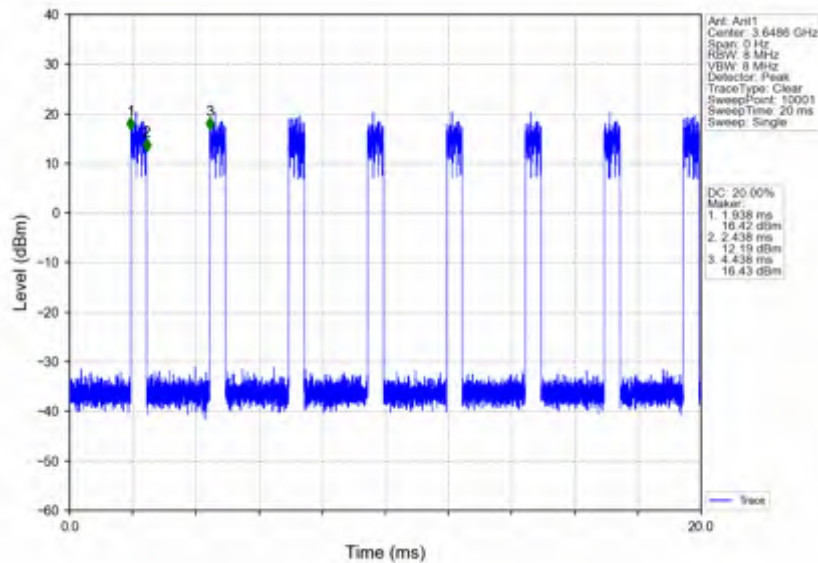
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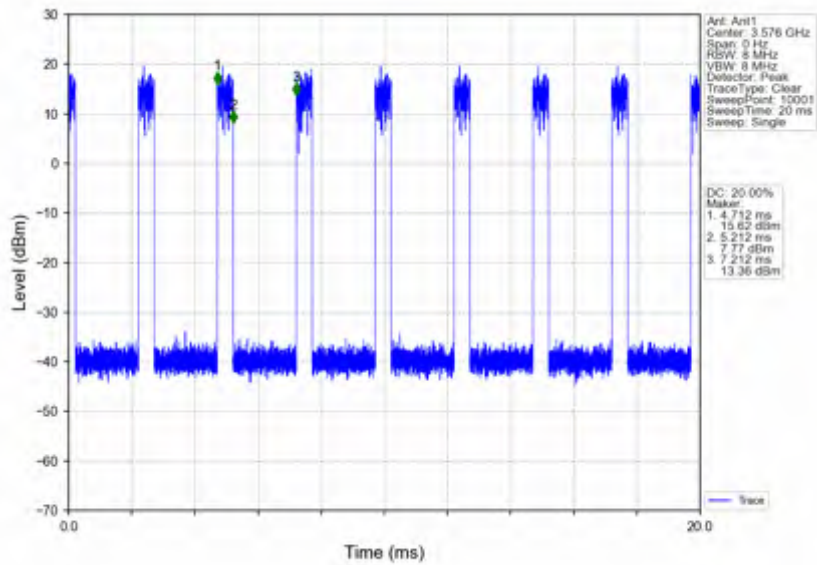


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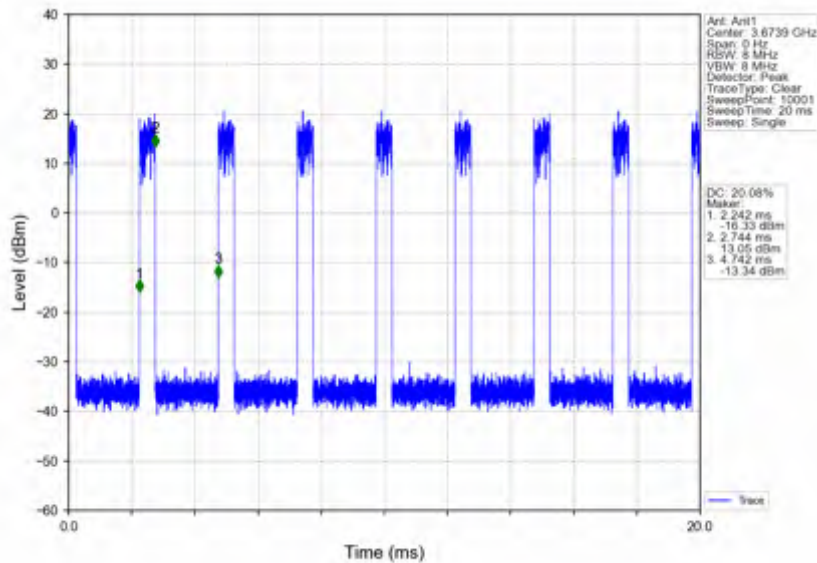
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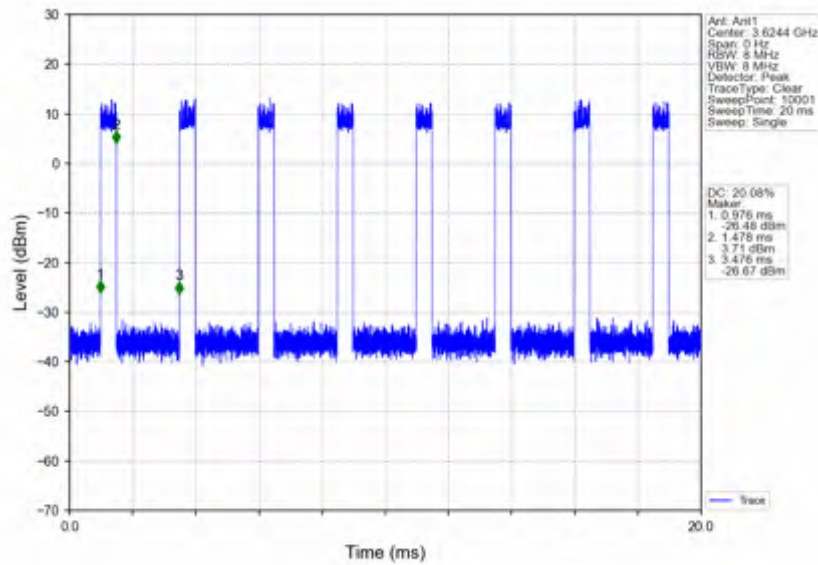


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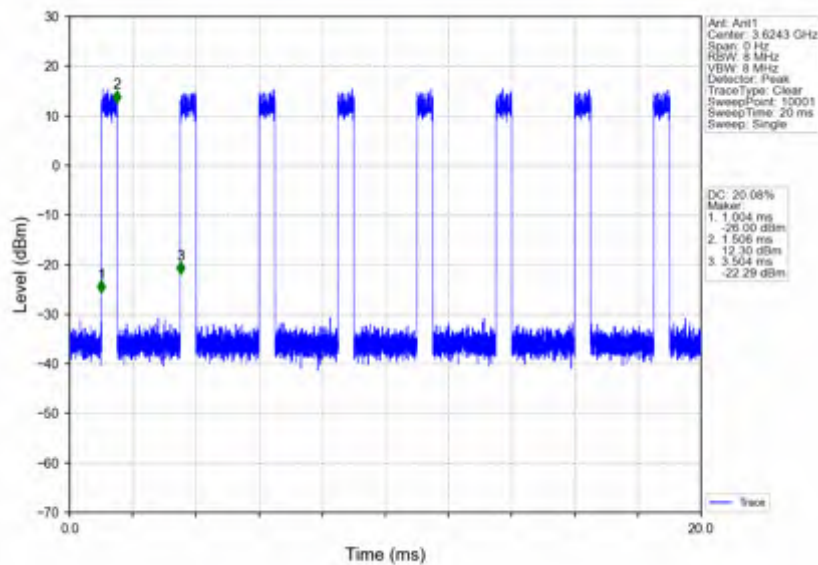
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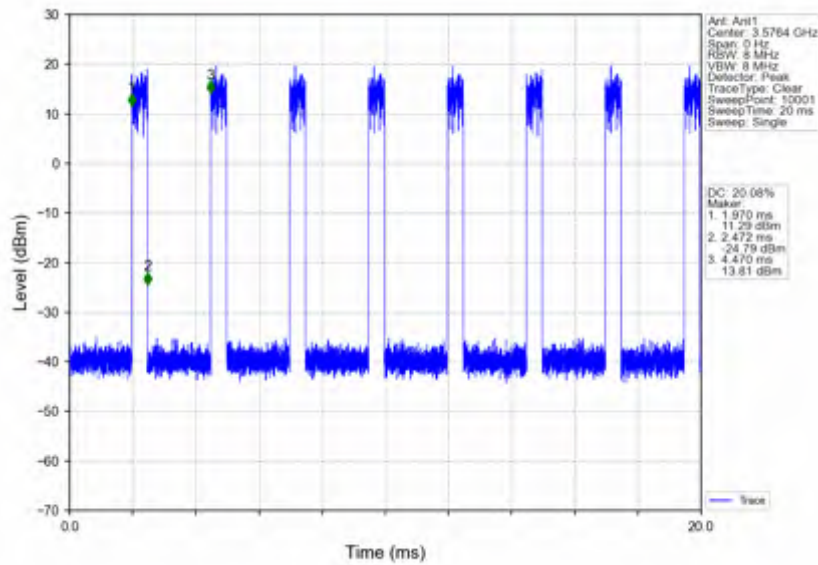
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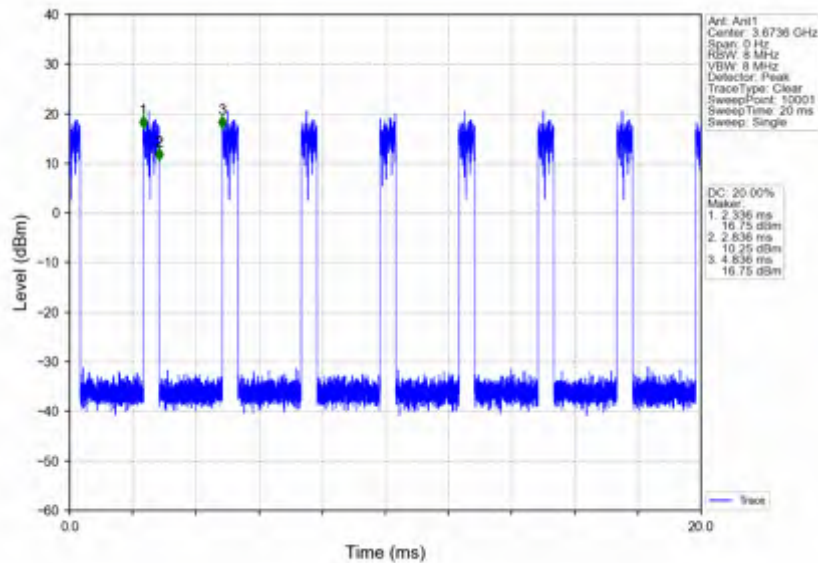
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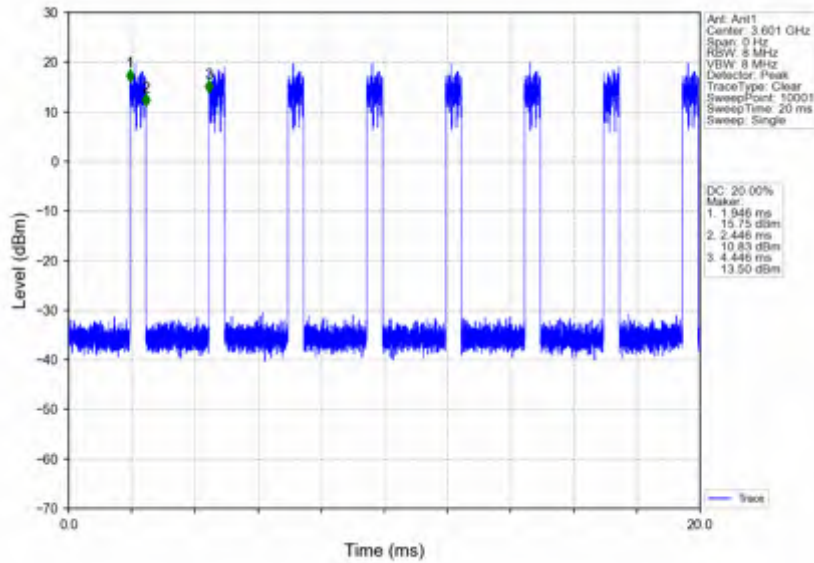


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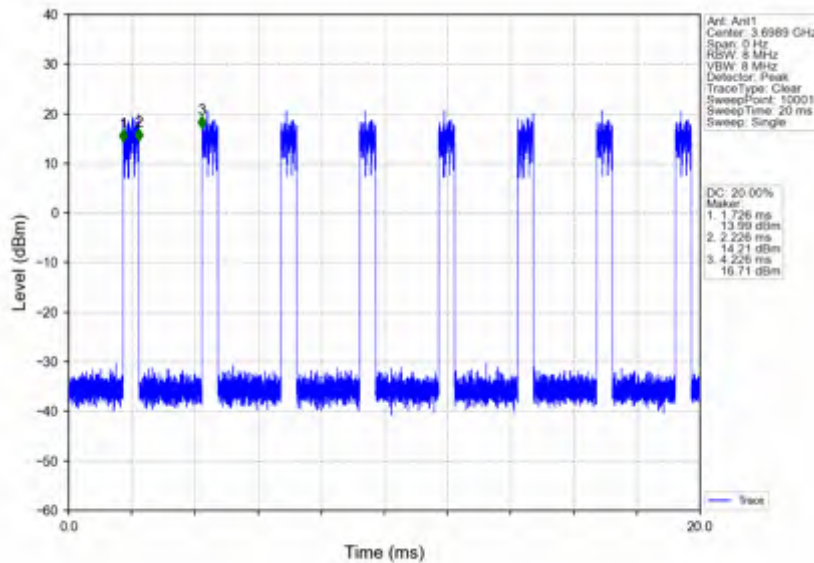
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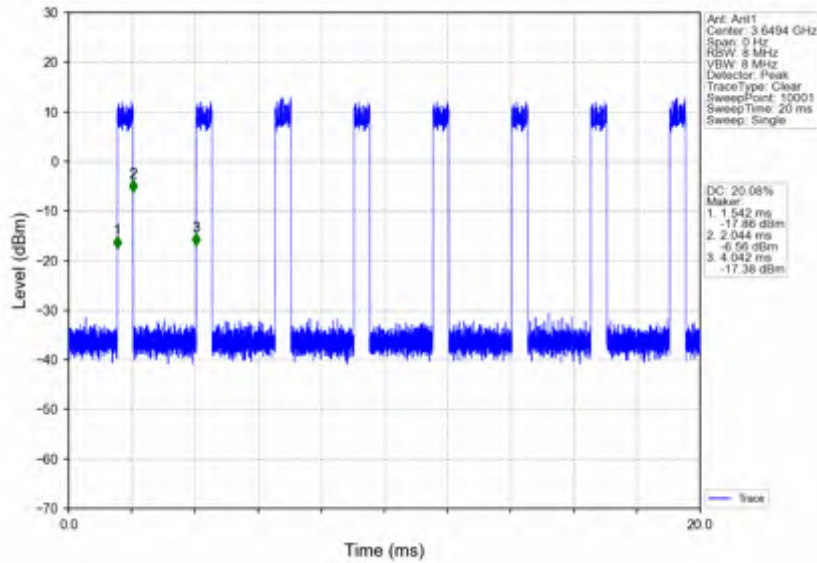
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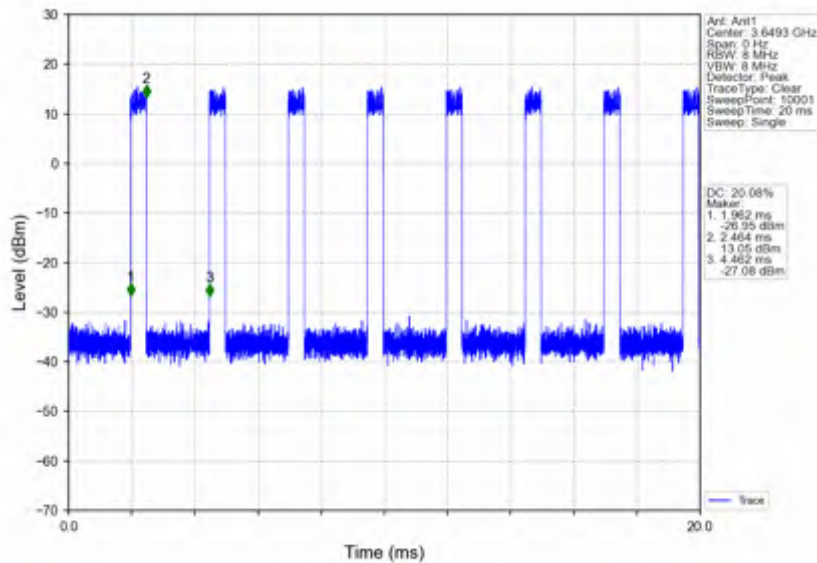
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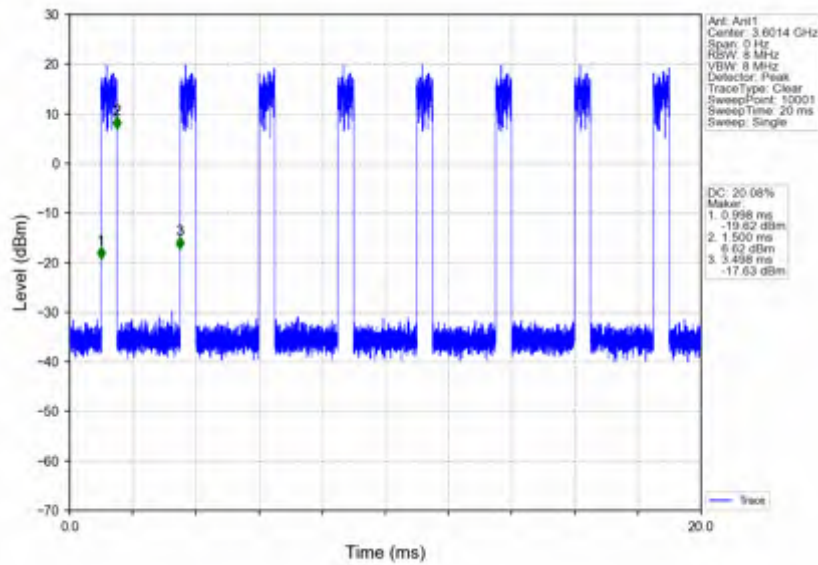
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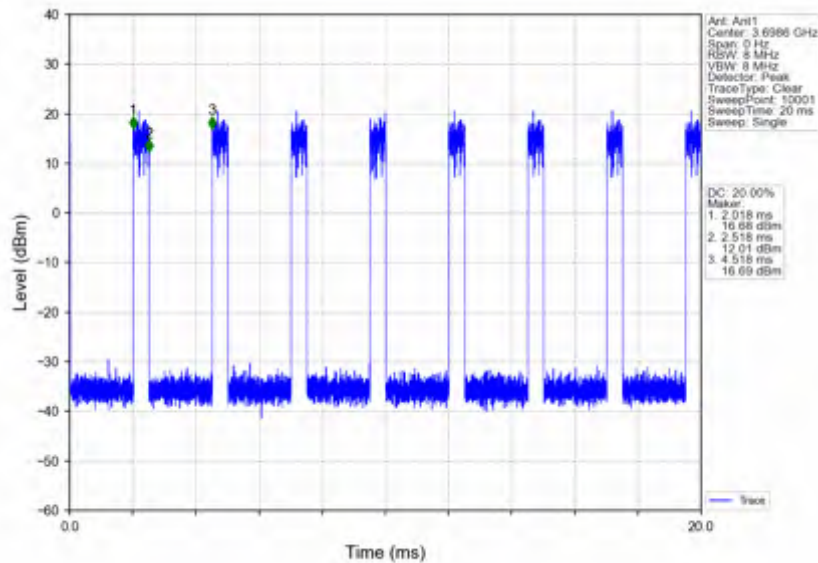
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3649.98MHz_Inner_1RB_Left



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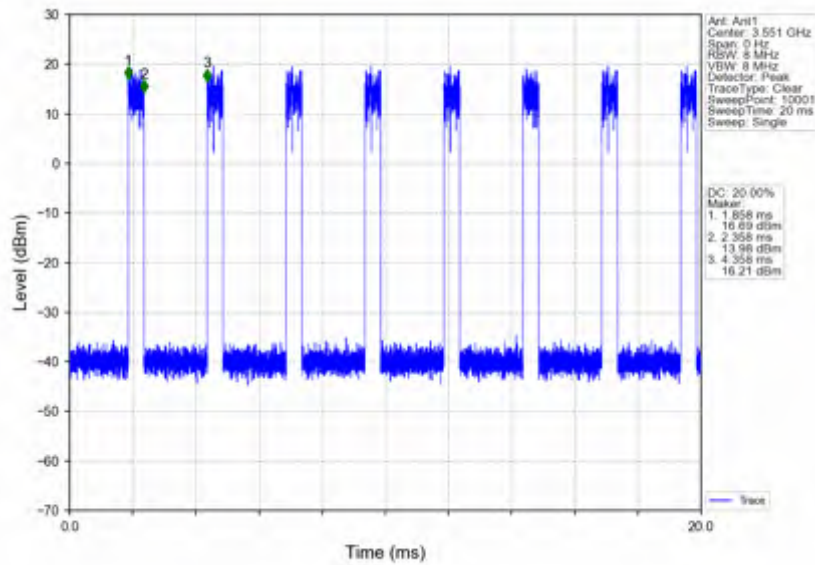


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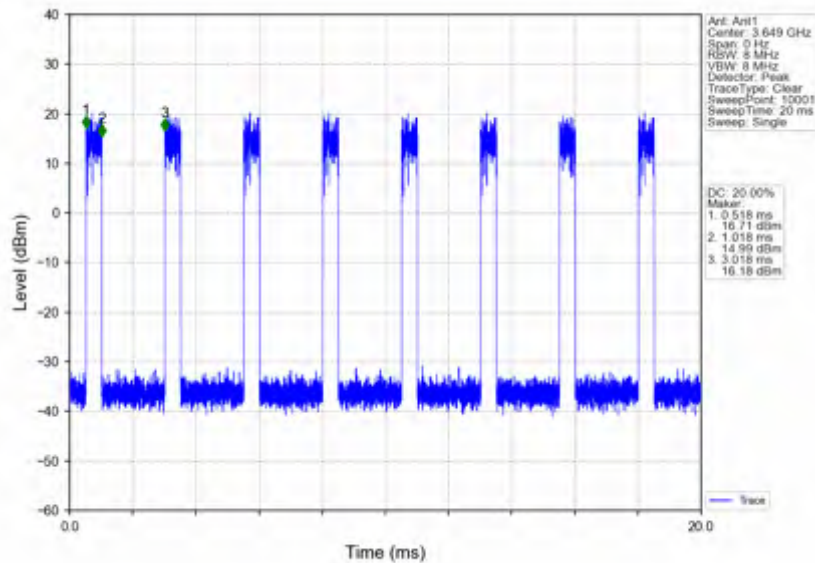
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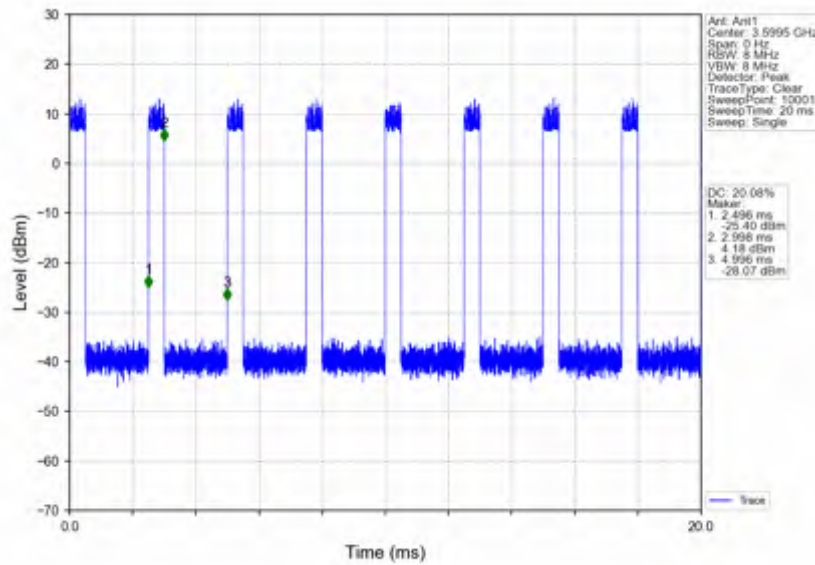
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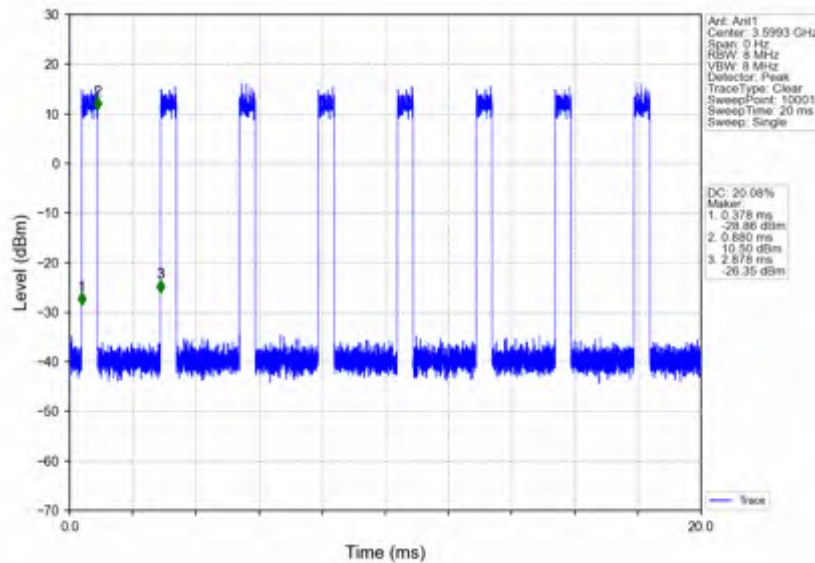
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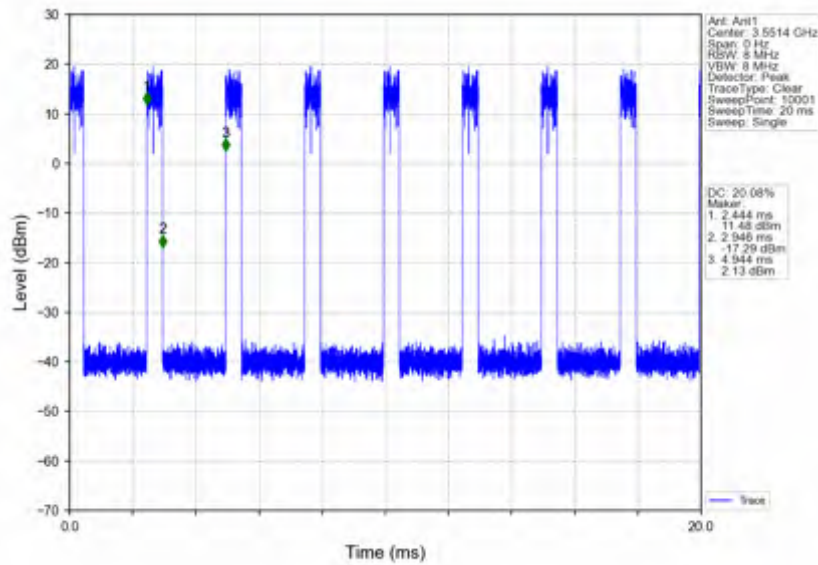
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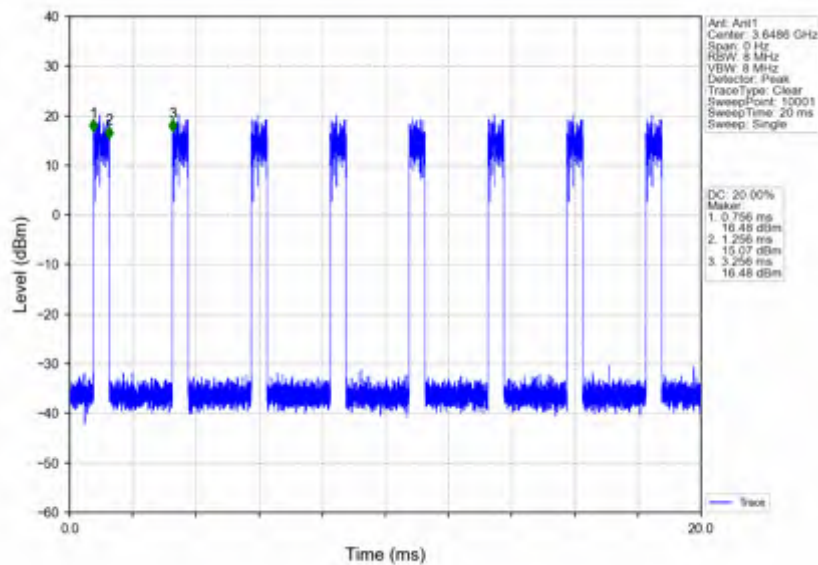
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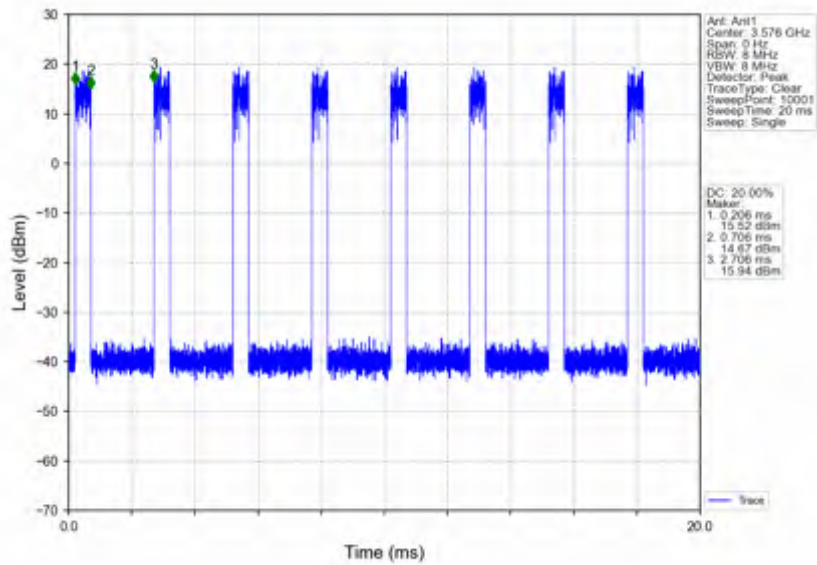
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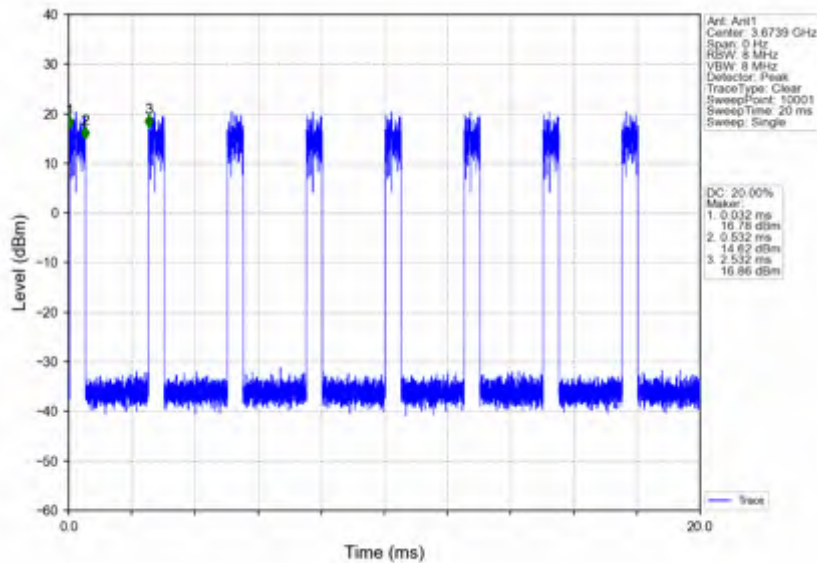
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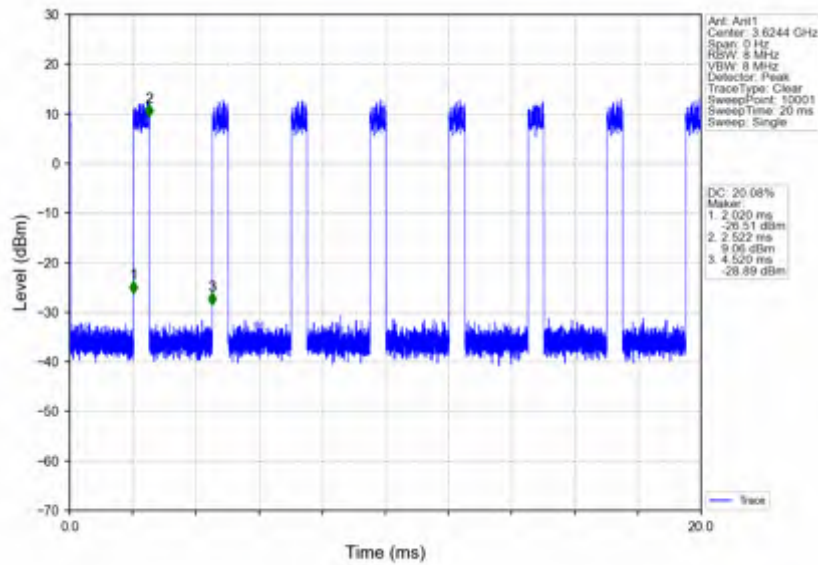
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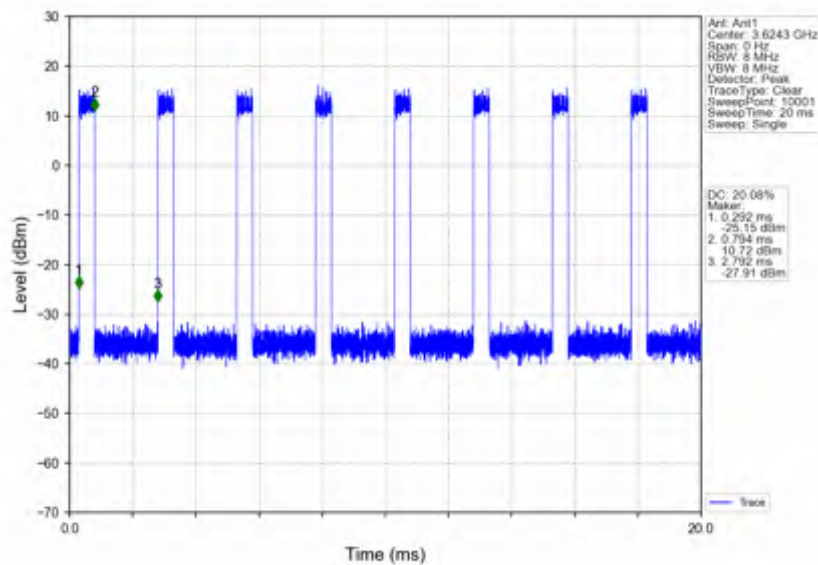
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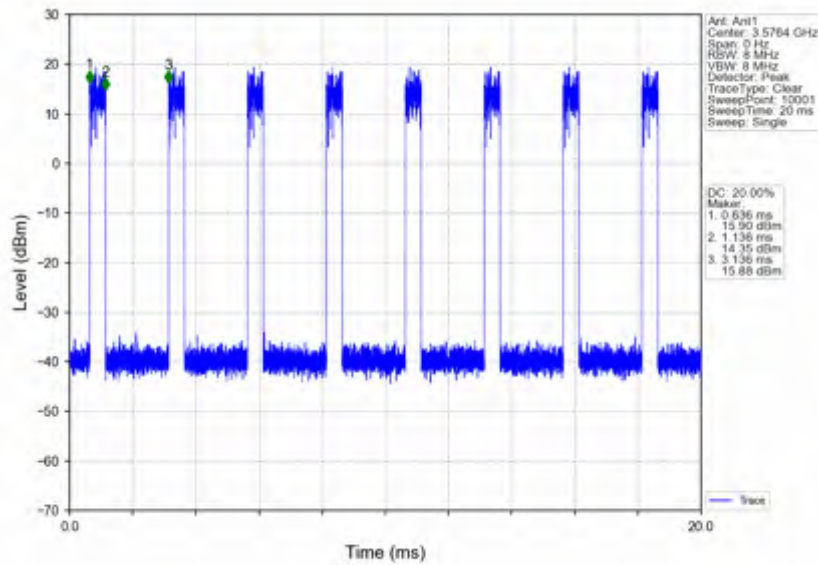


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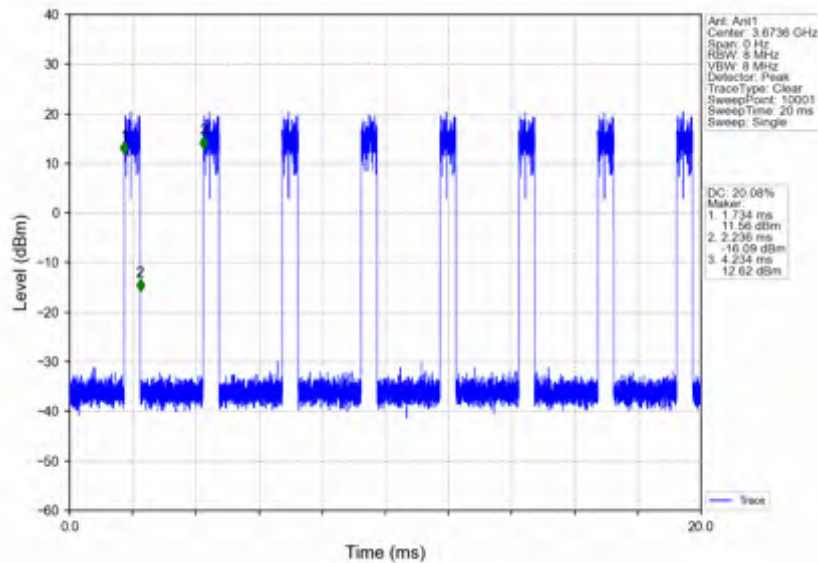
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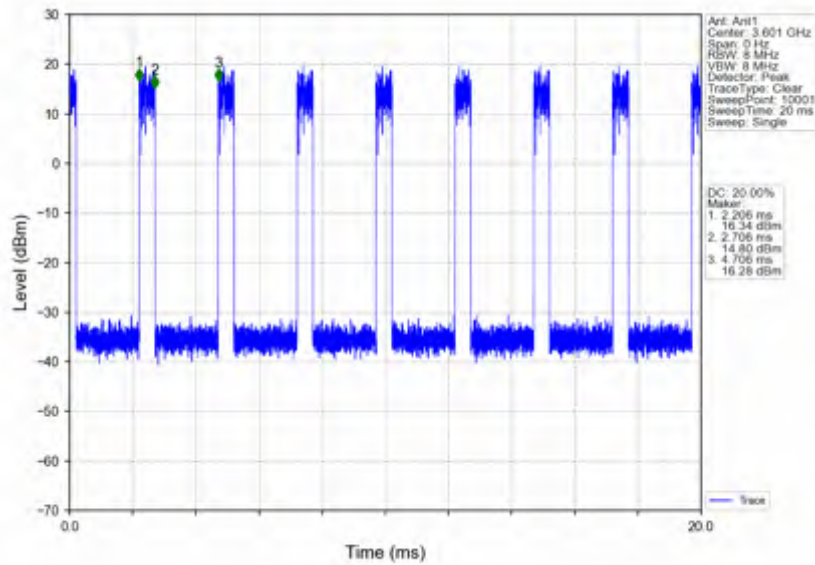


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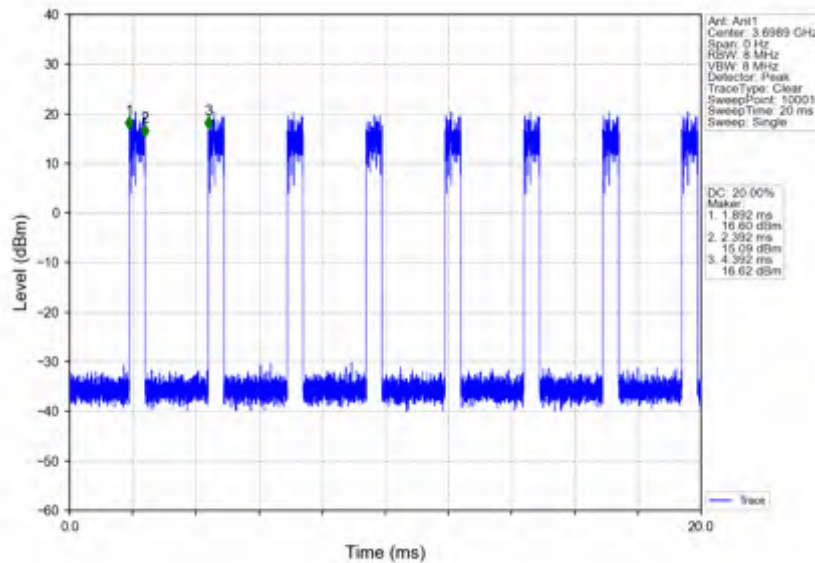
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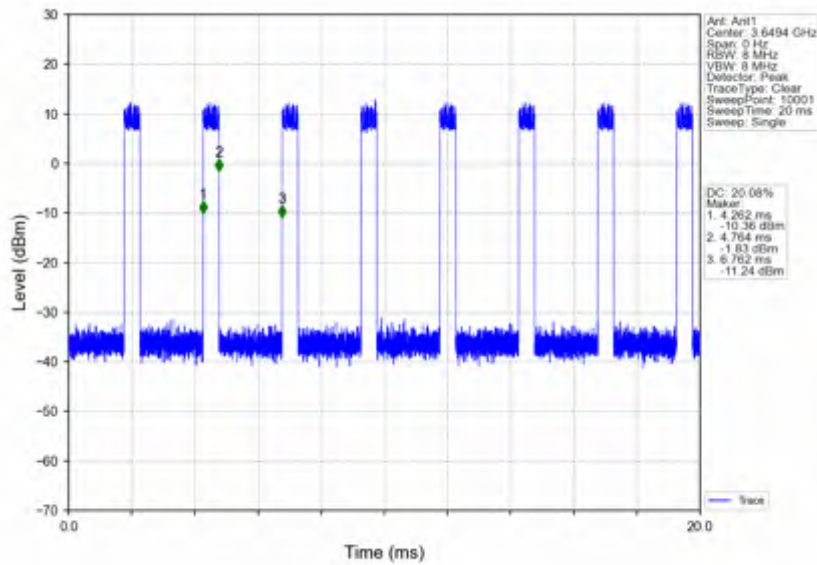


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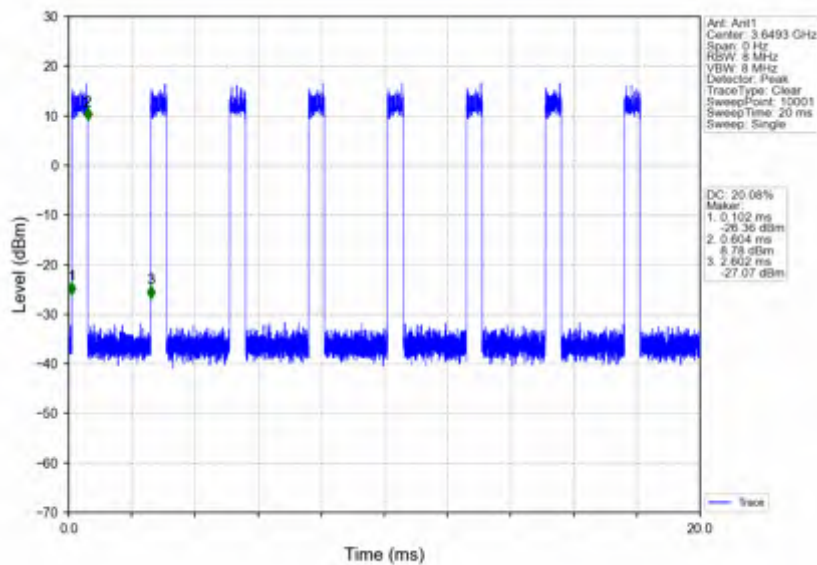
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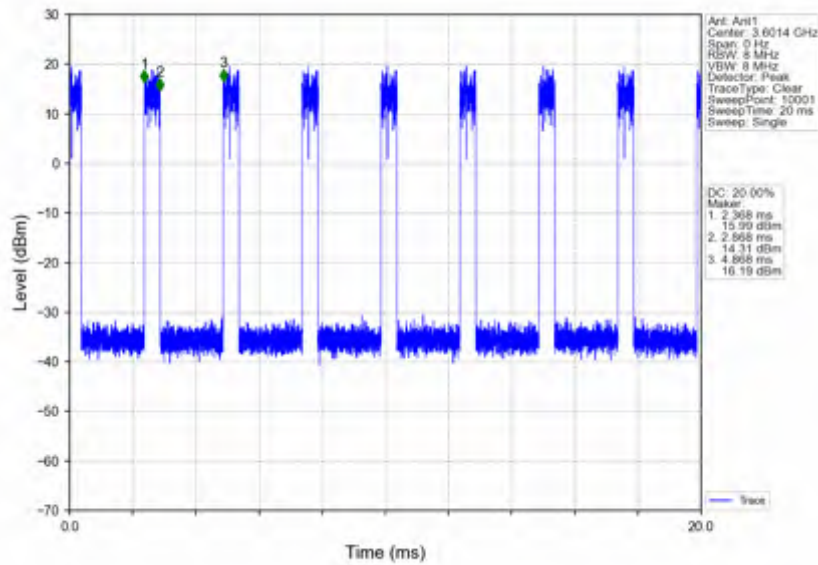


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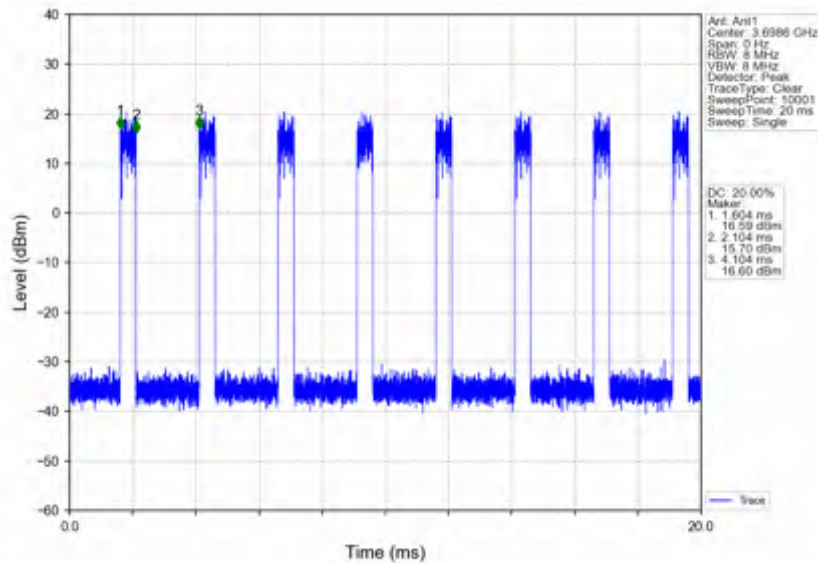
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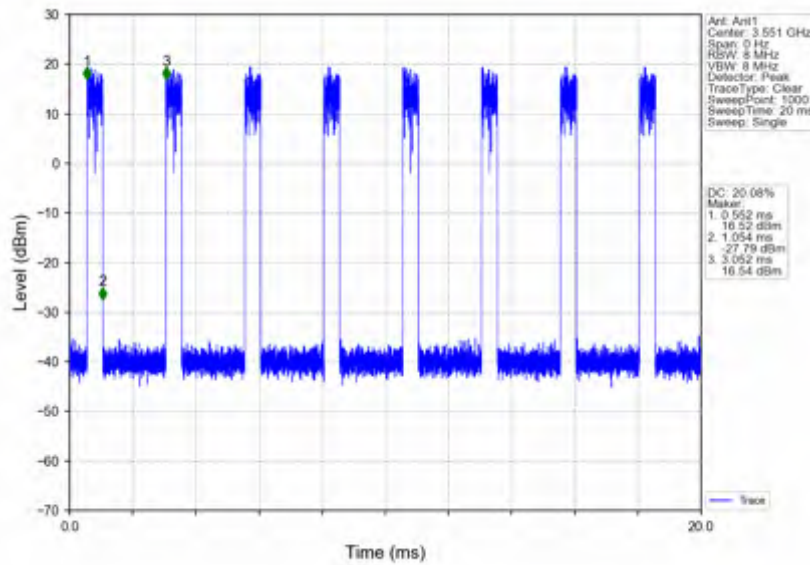


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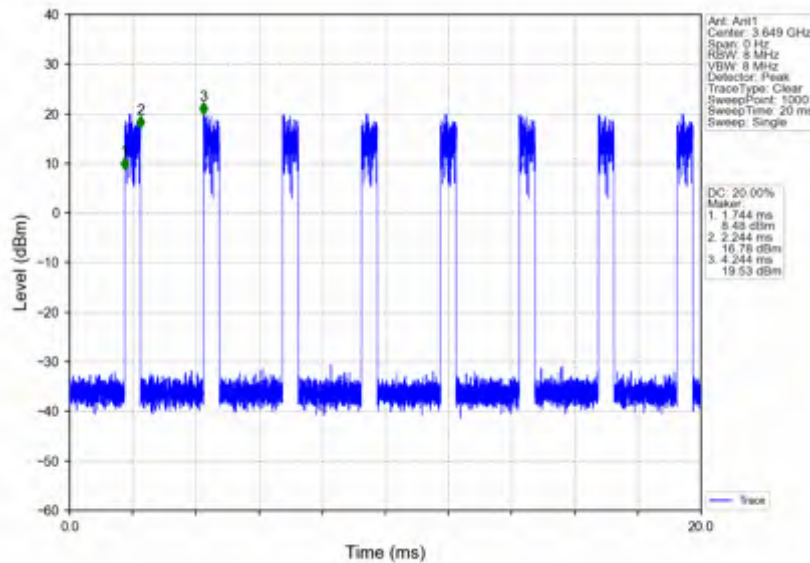
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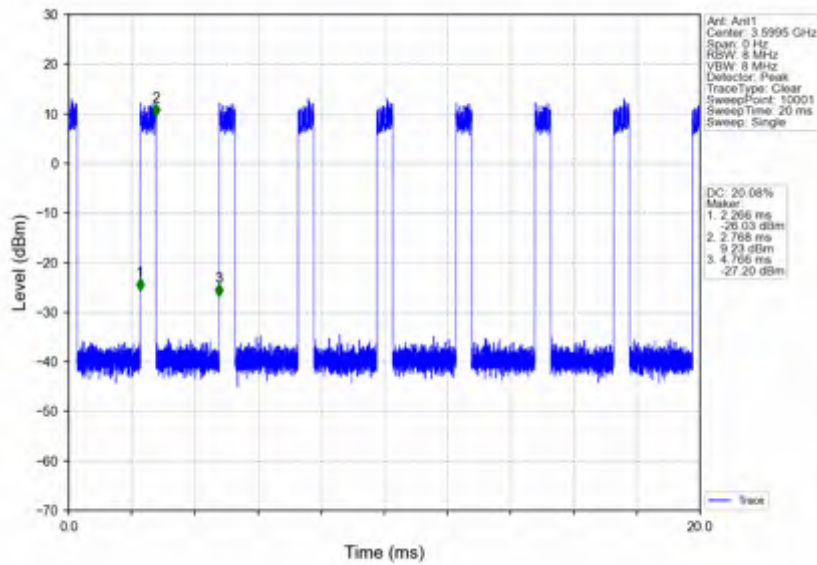


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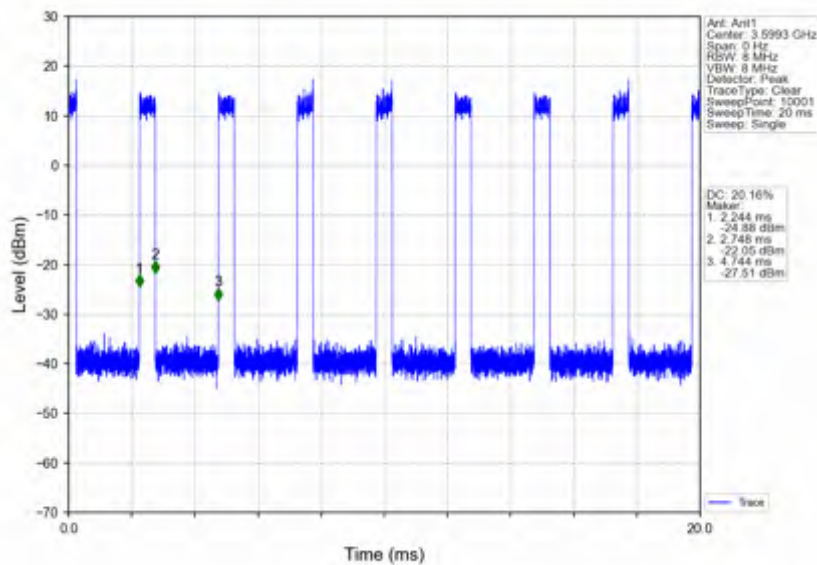
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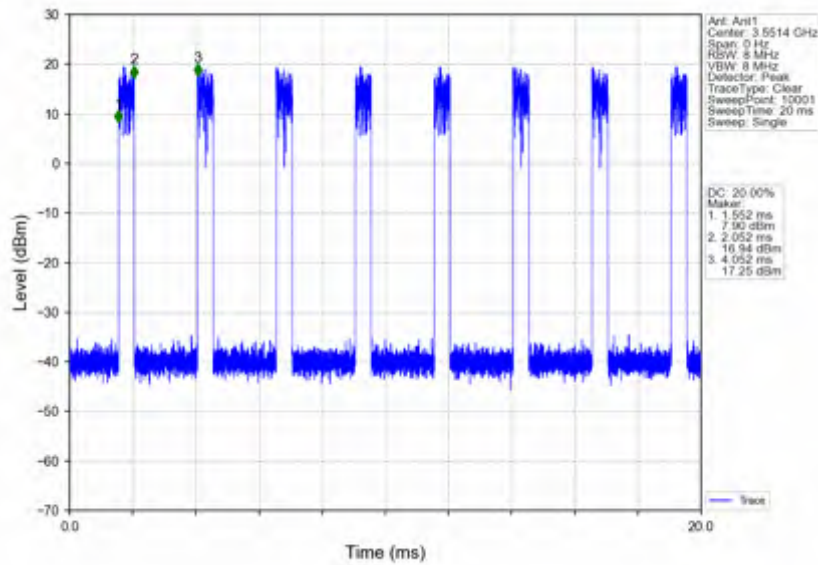


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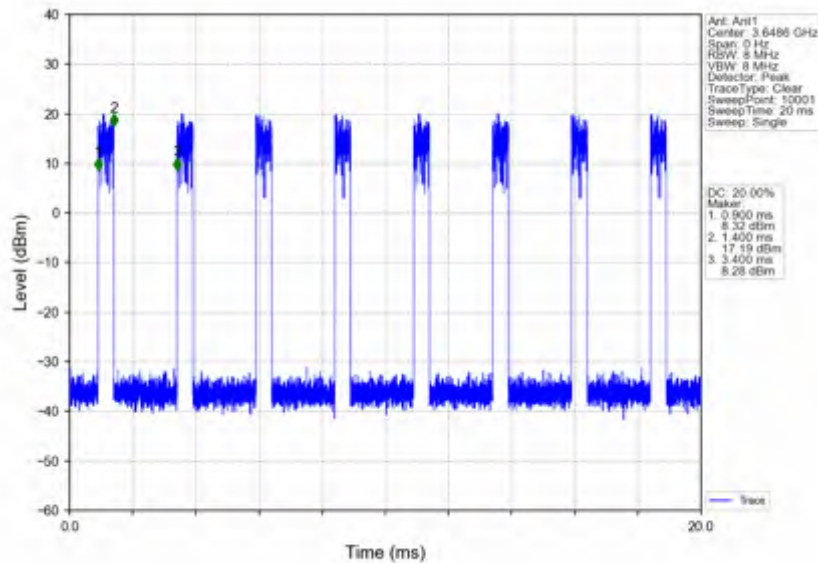
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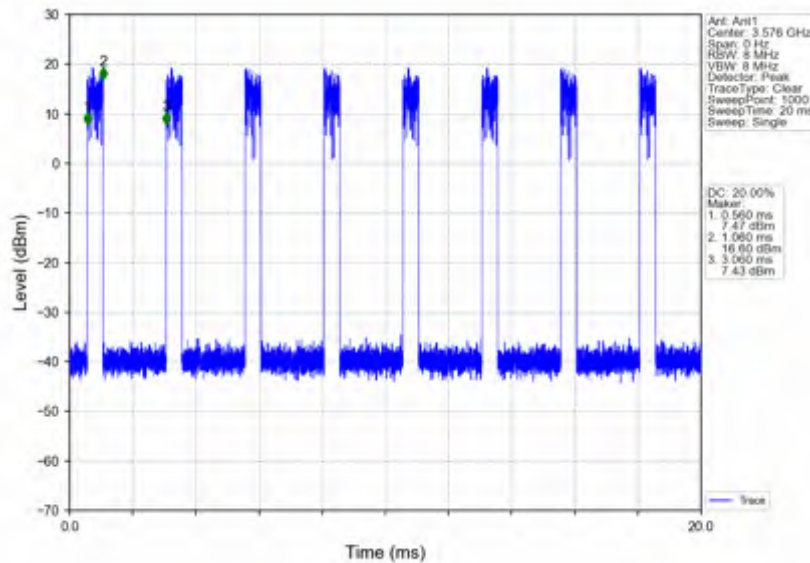
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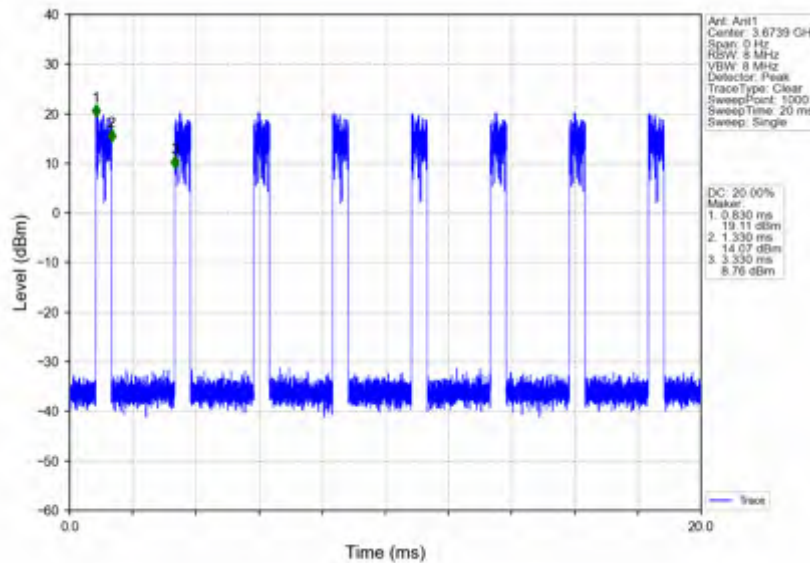
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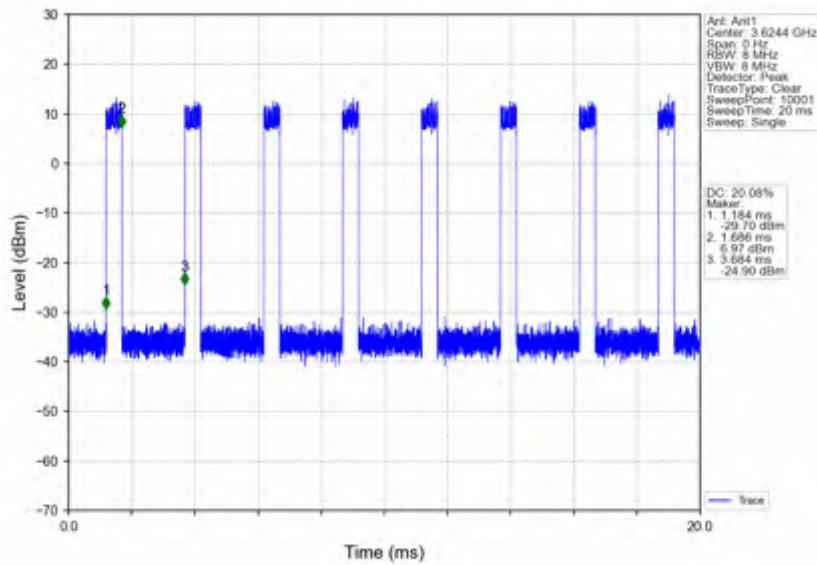
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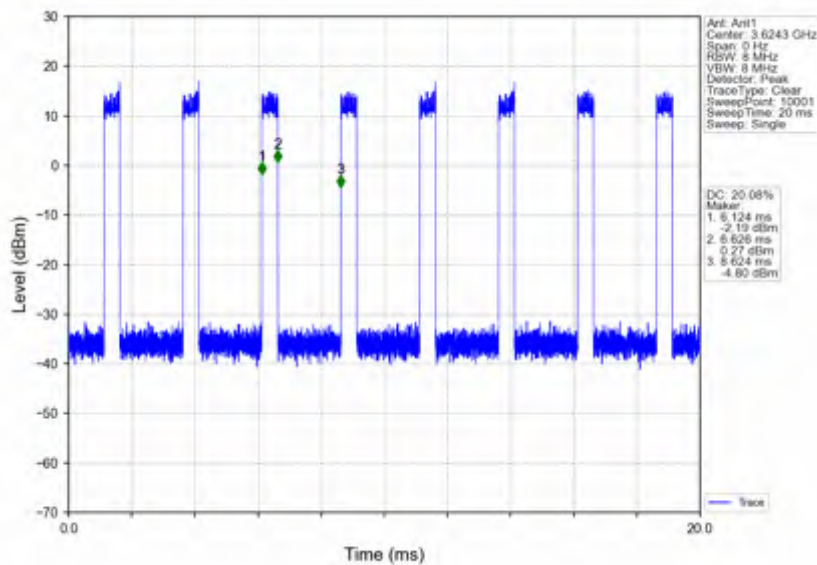
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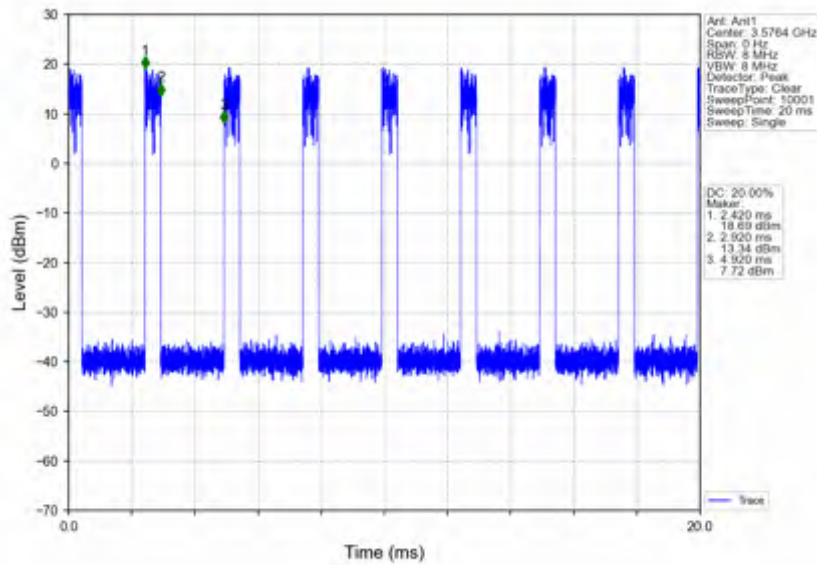
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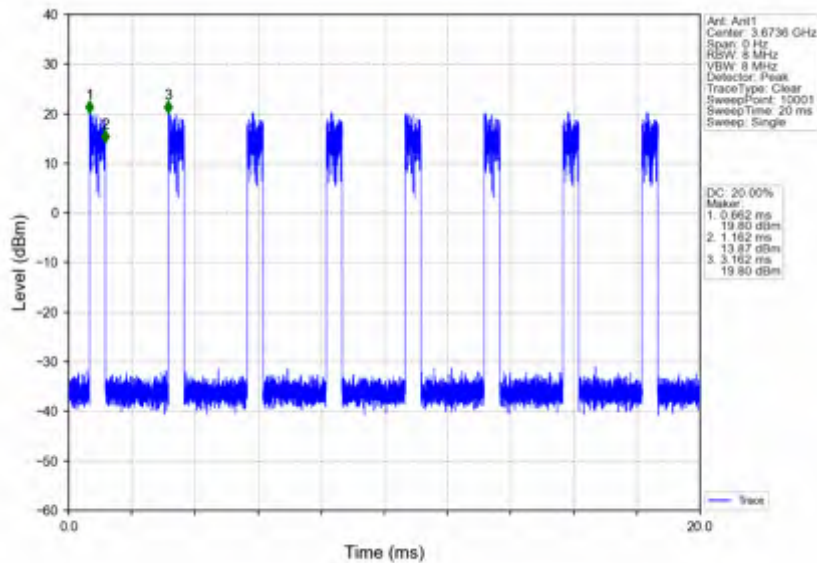
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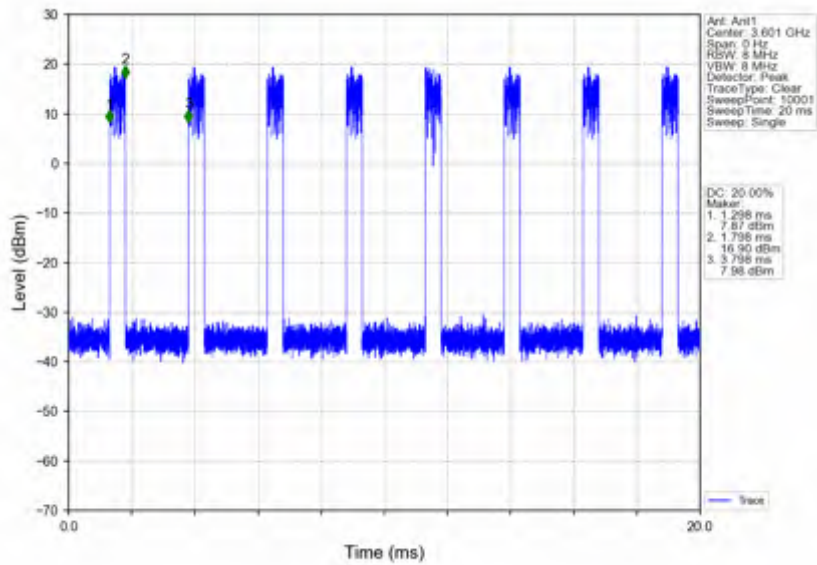


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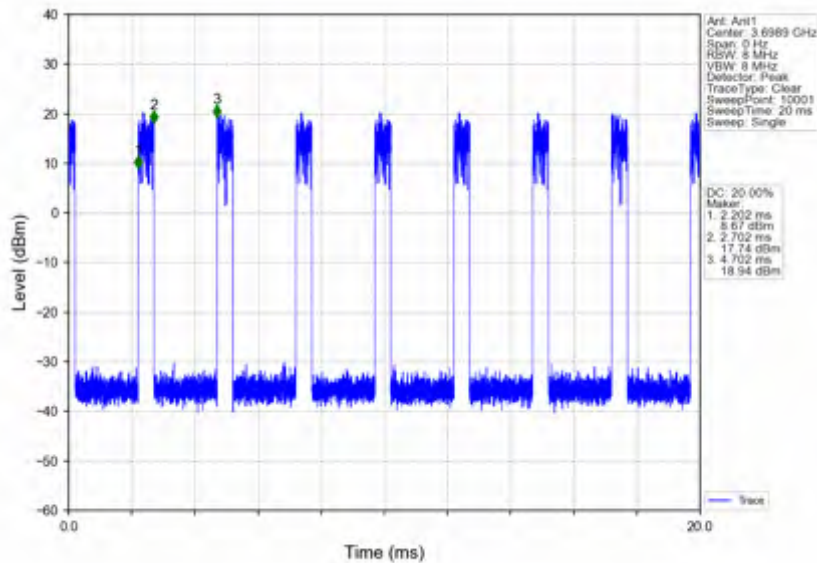
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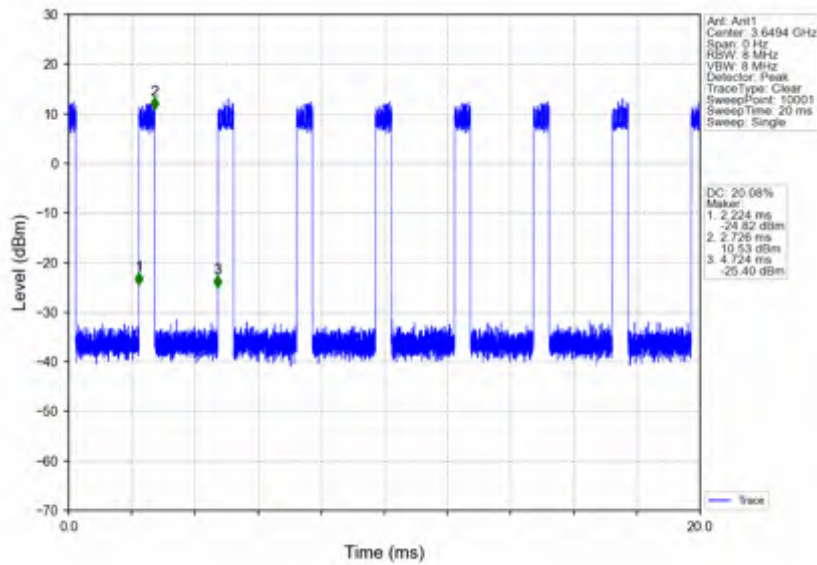


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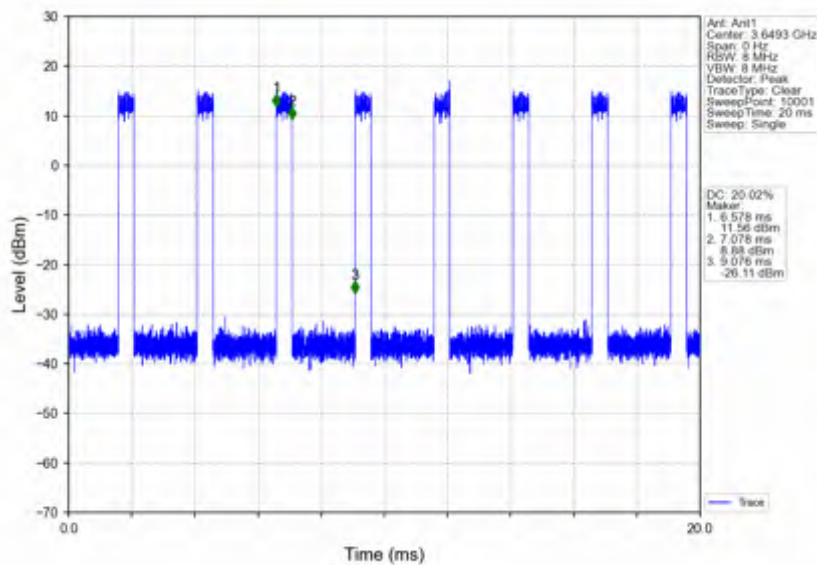
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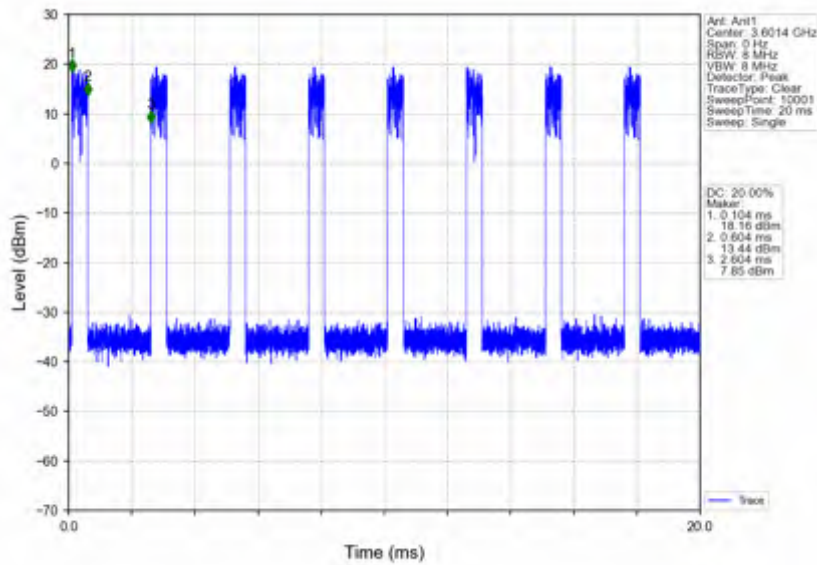
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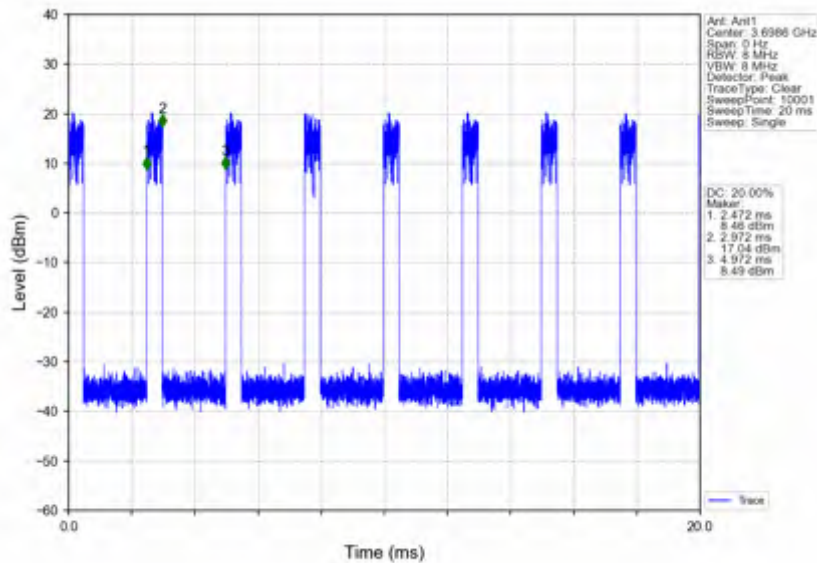
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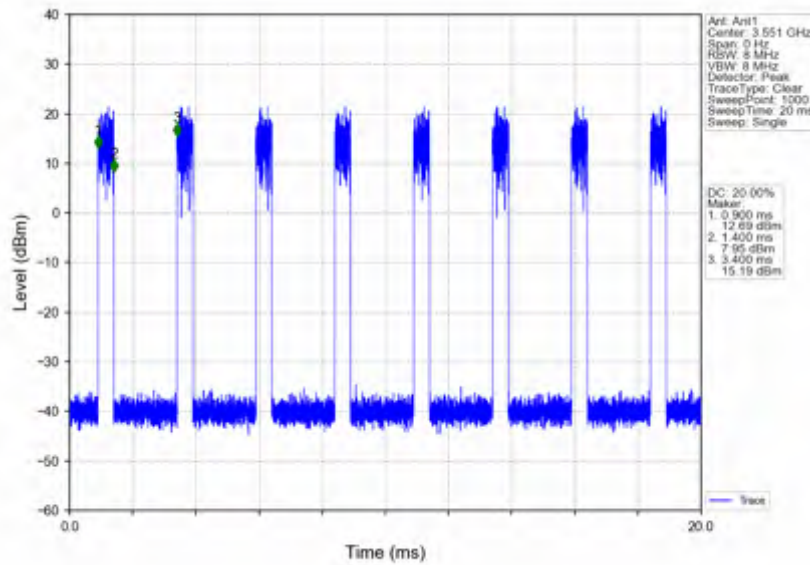


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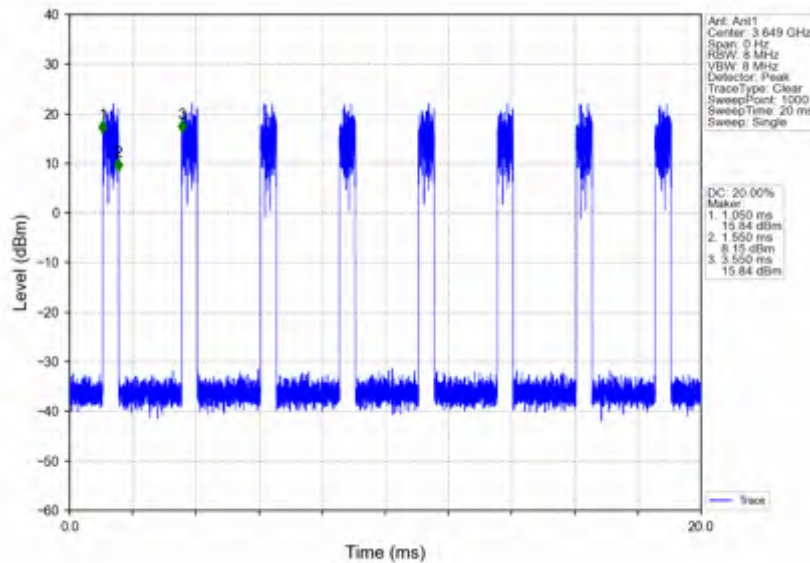
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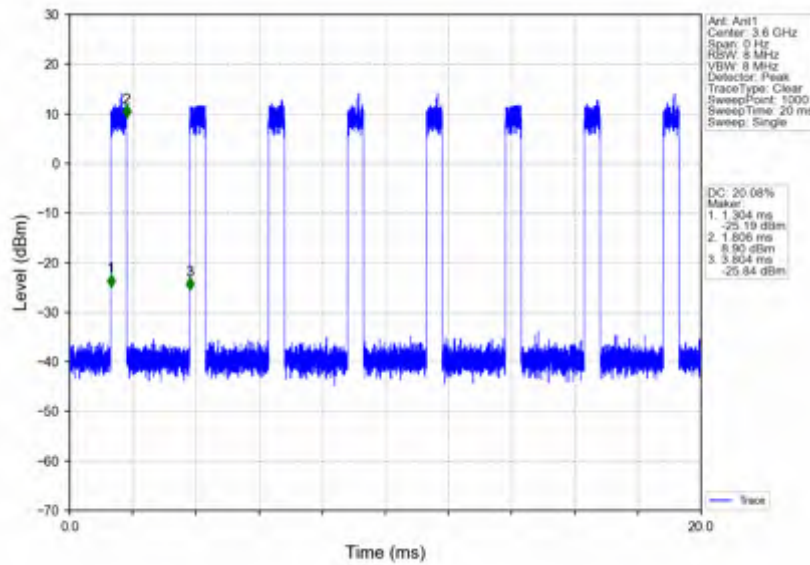
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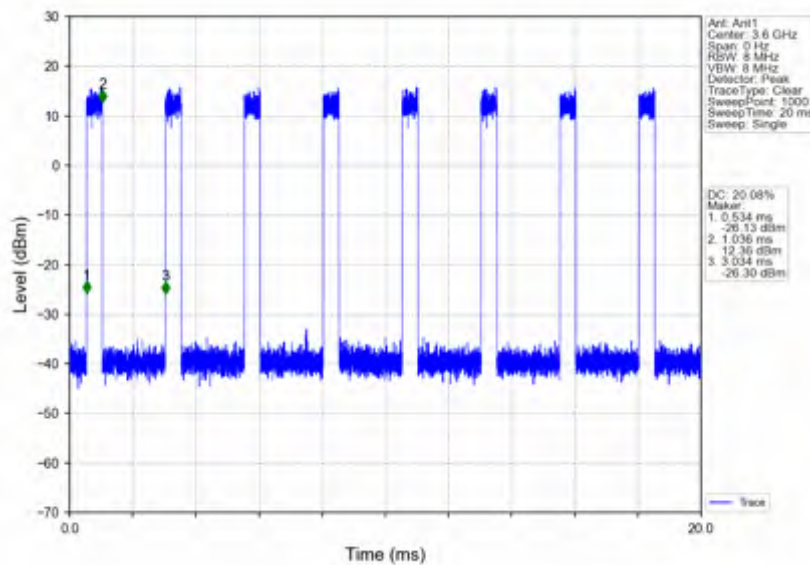
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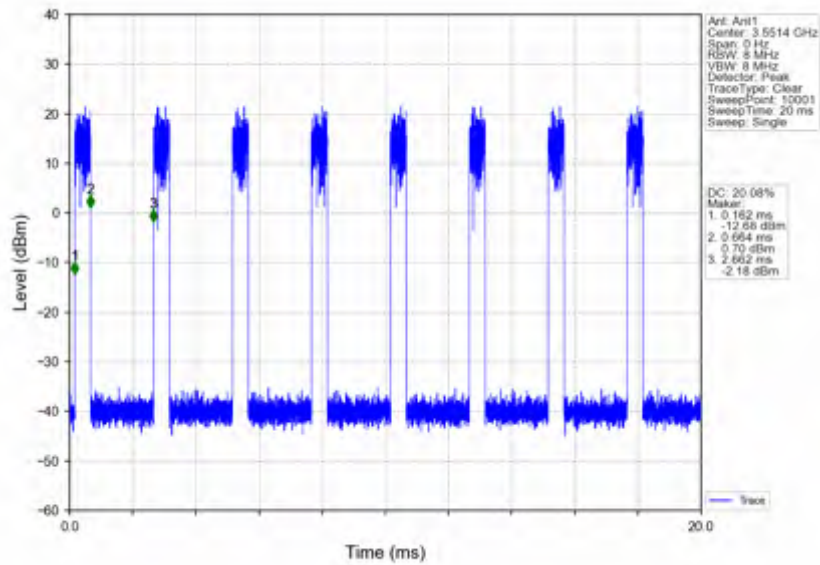


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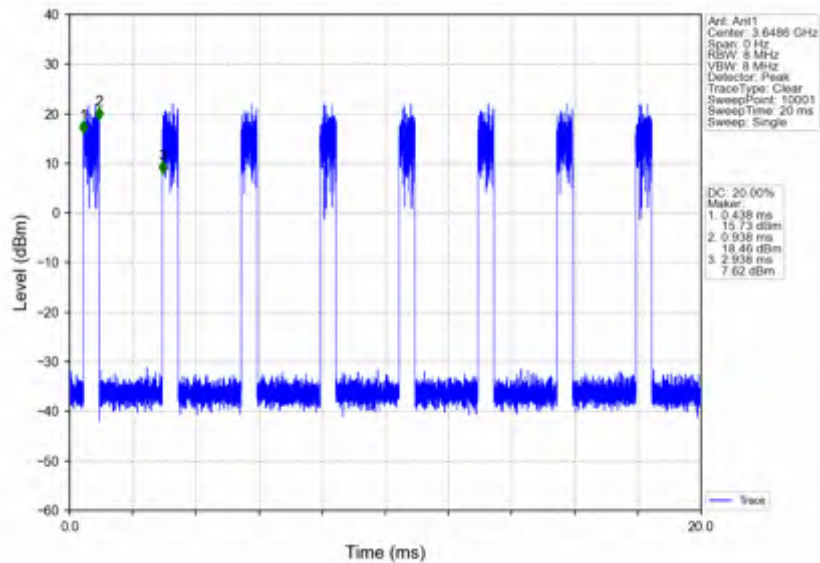
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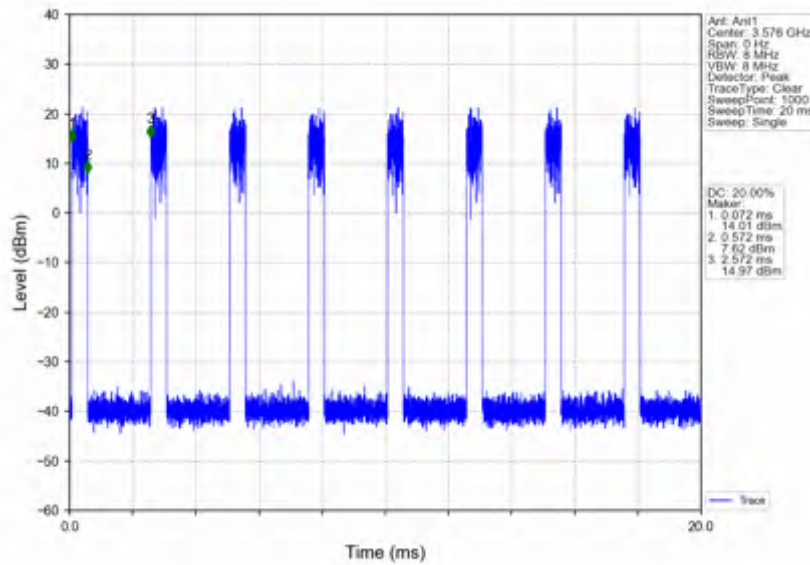


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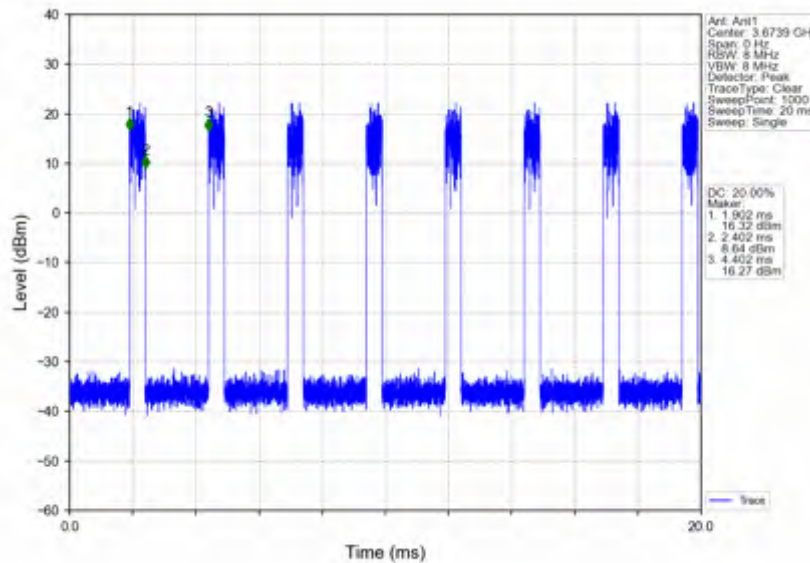
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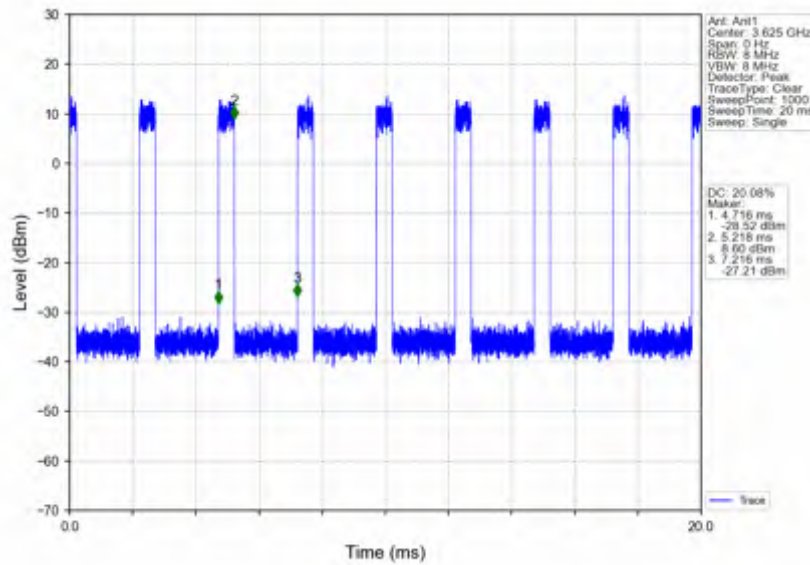


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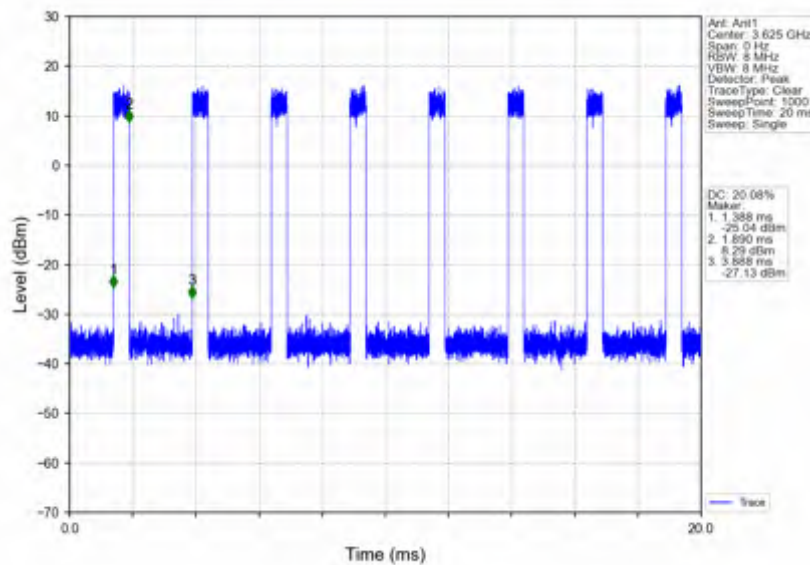
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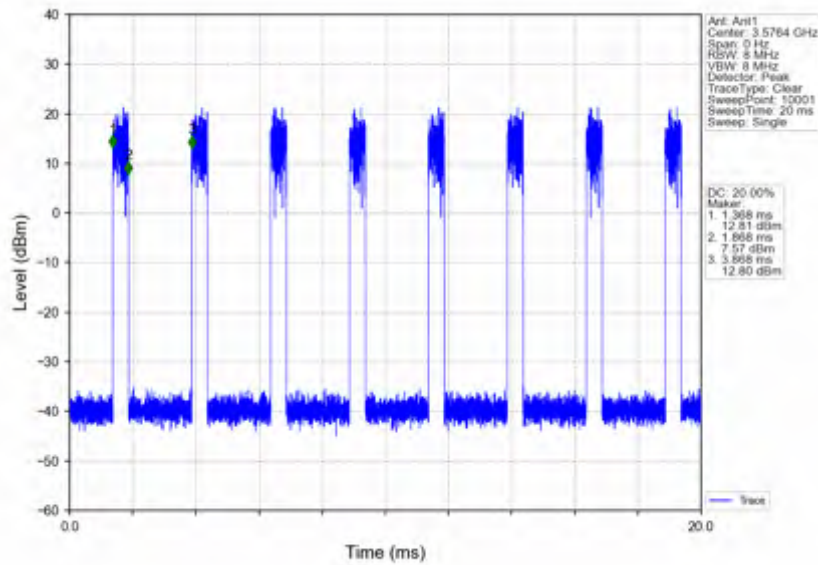
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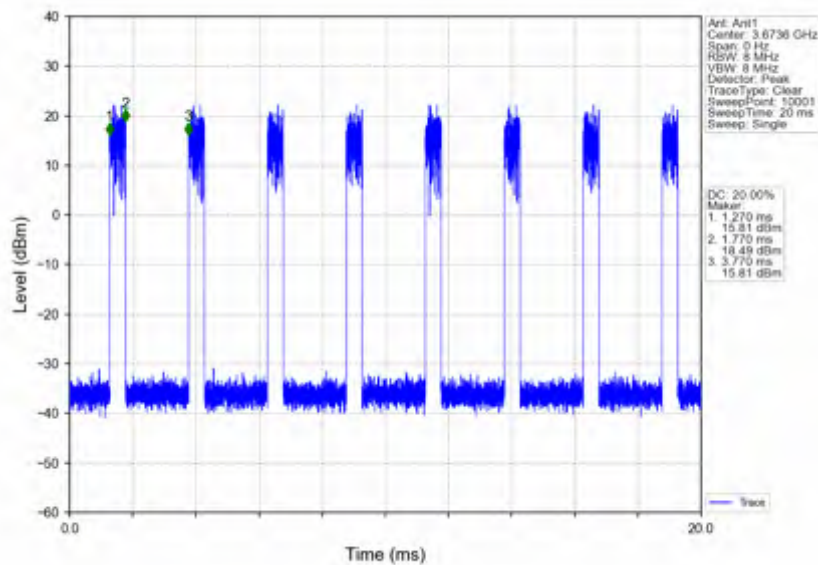
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3624.99MHz_Inner_1RB_Left



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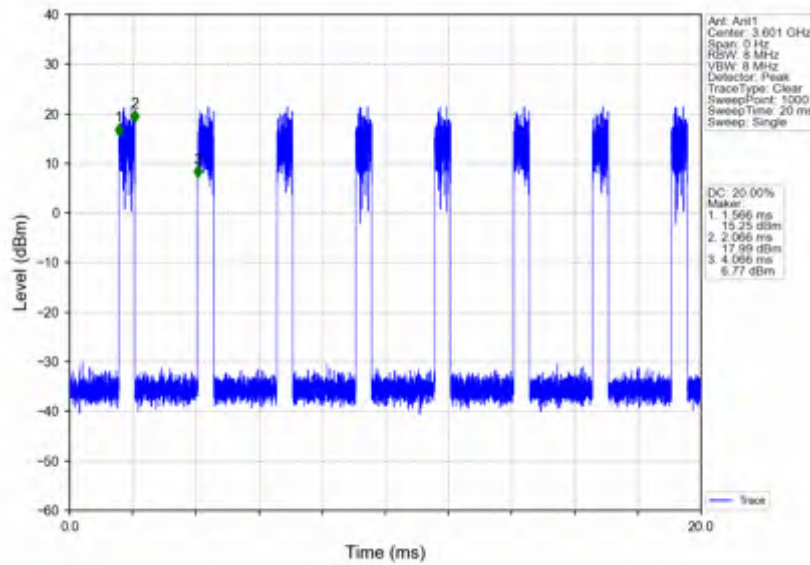


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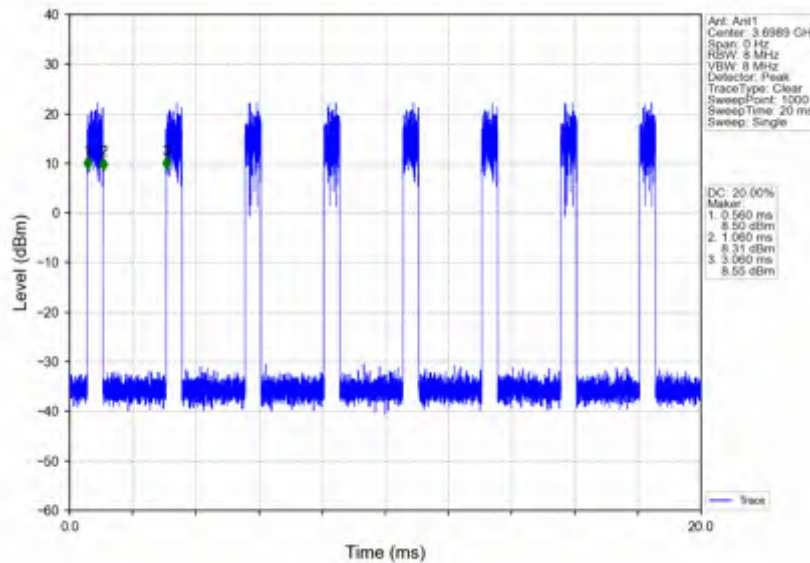
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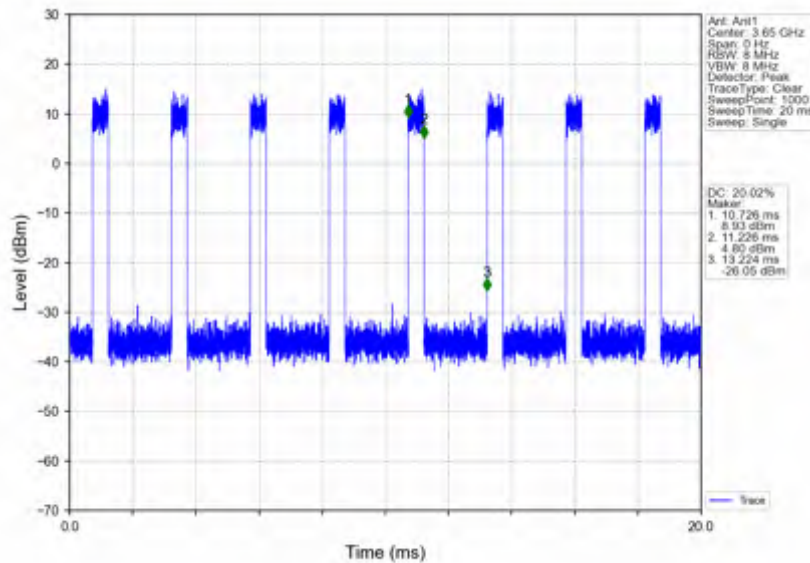


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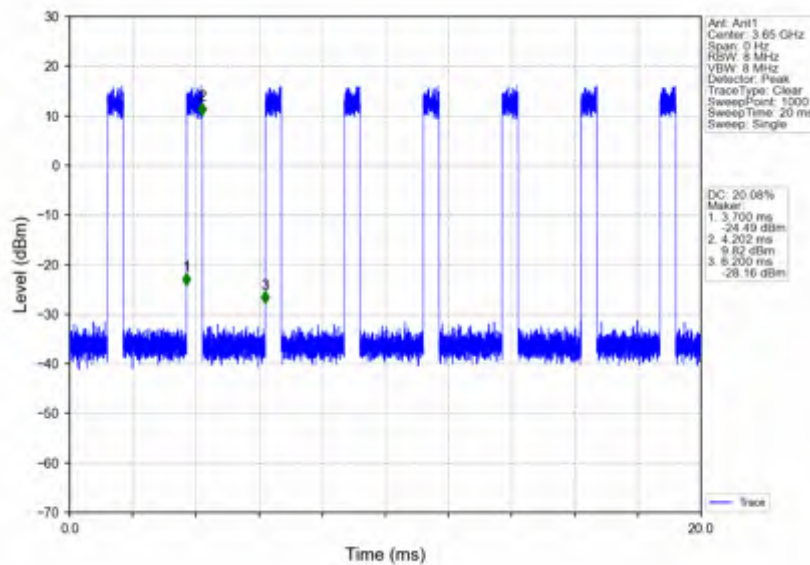
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3649.98MHz_Outer_Full



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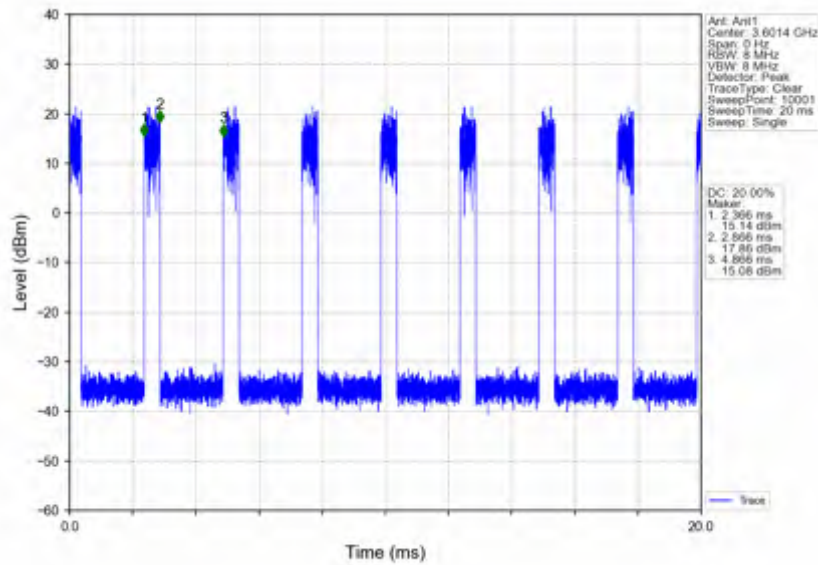
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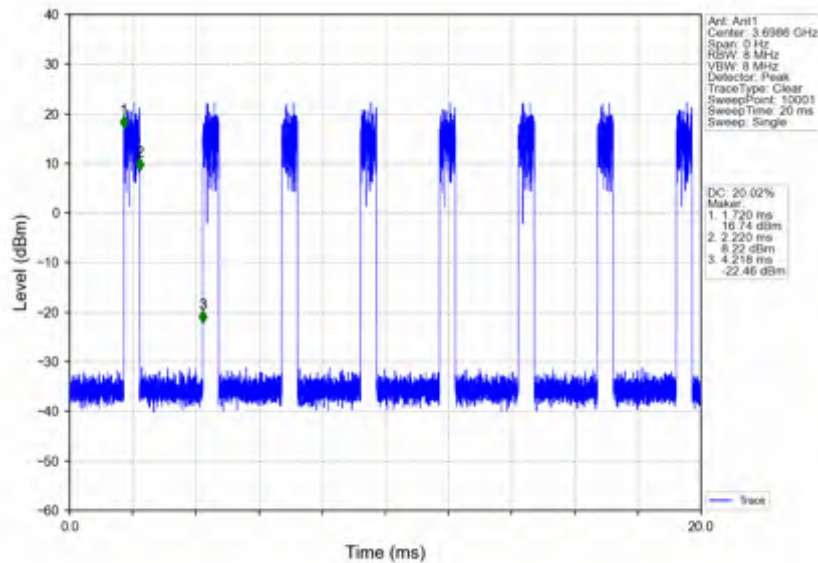
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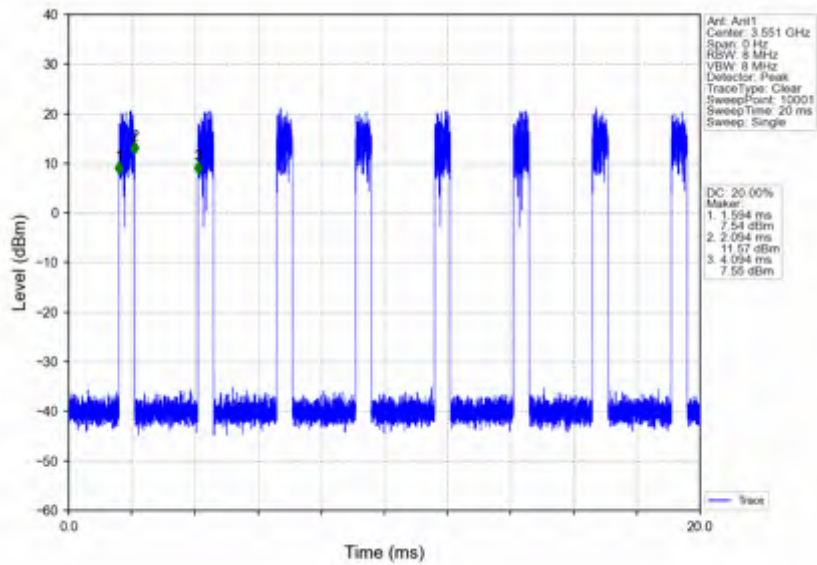


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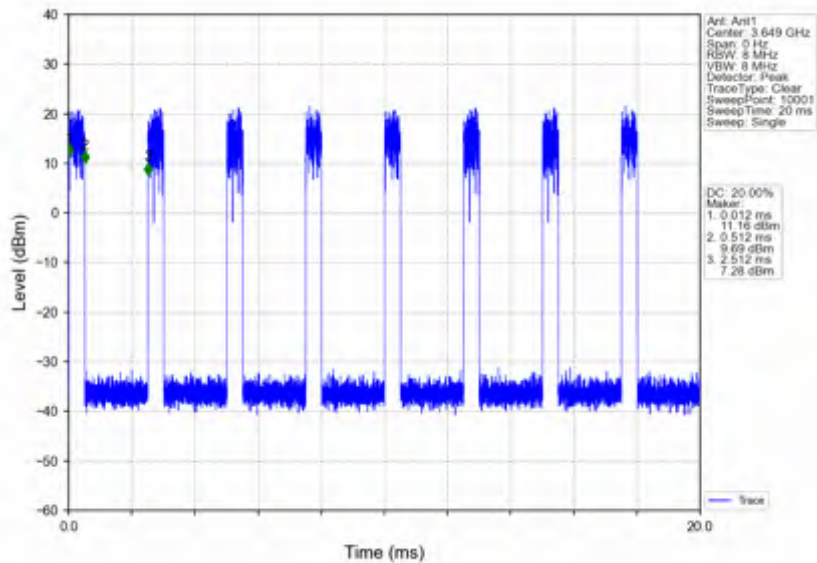
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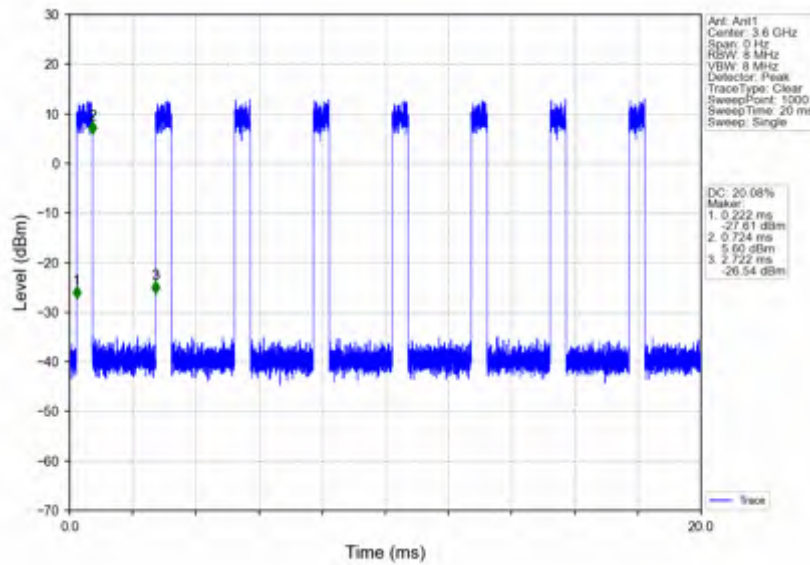


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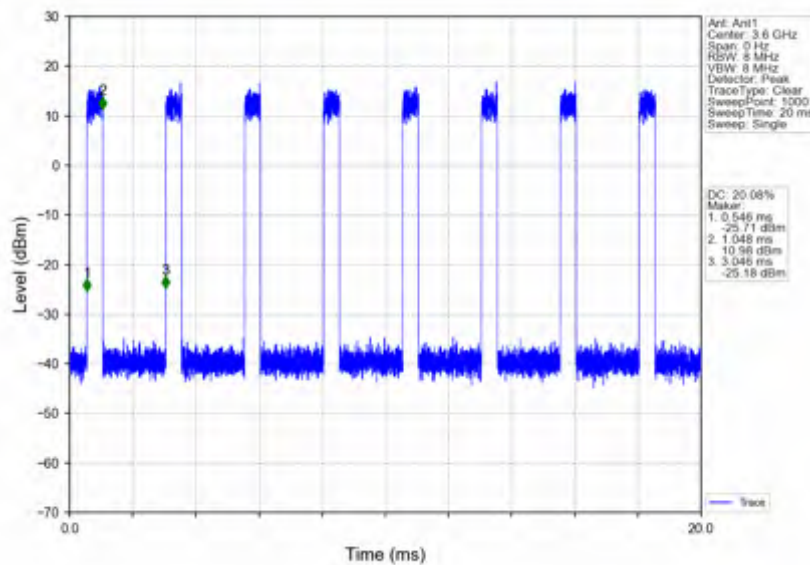
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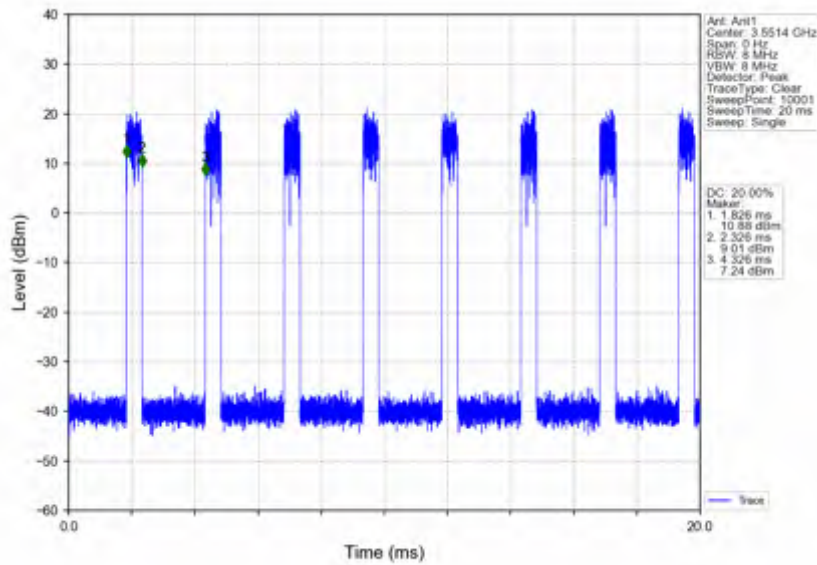


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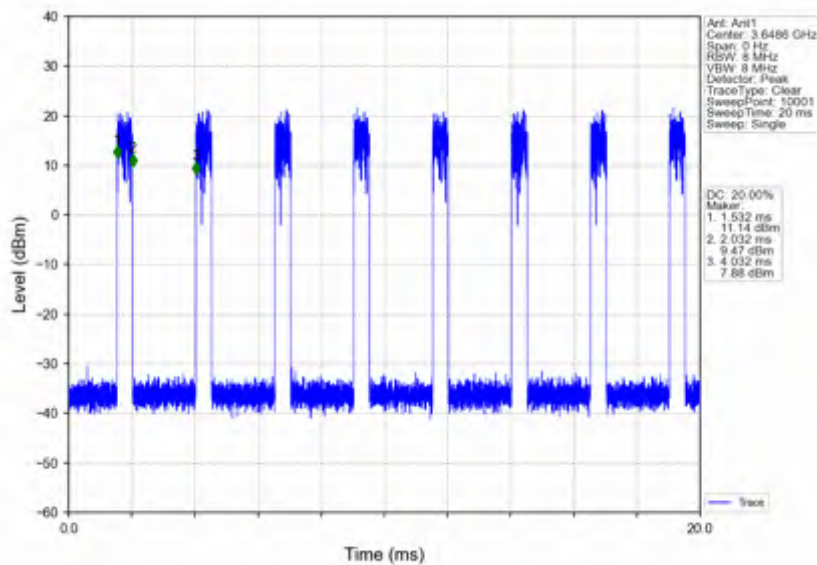
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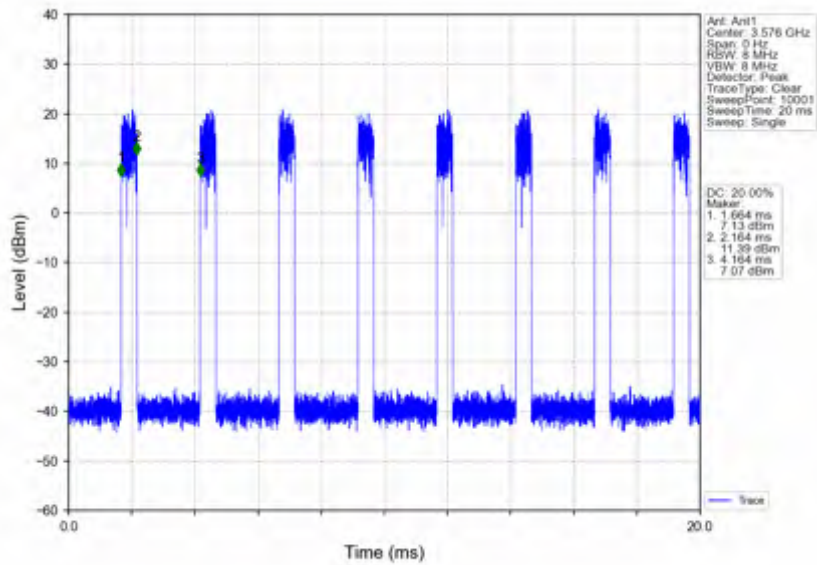
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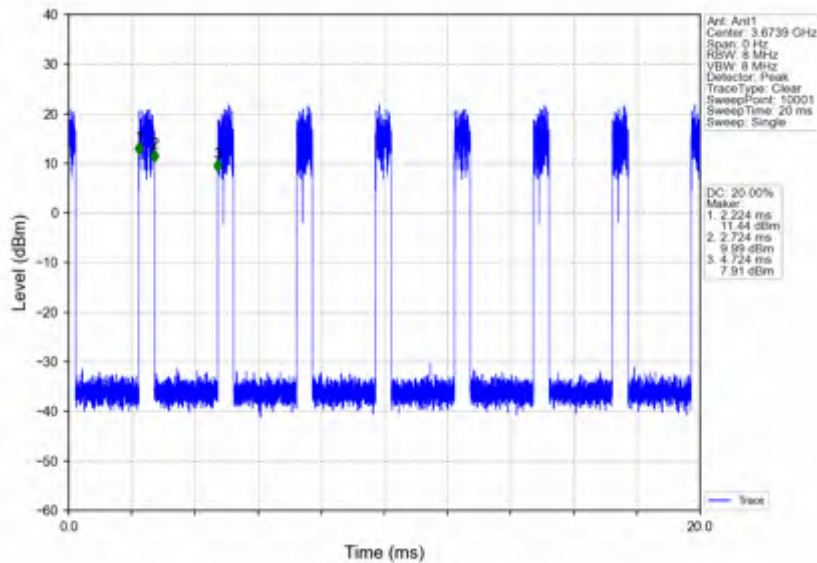
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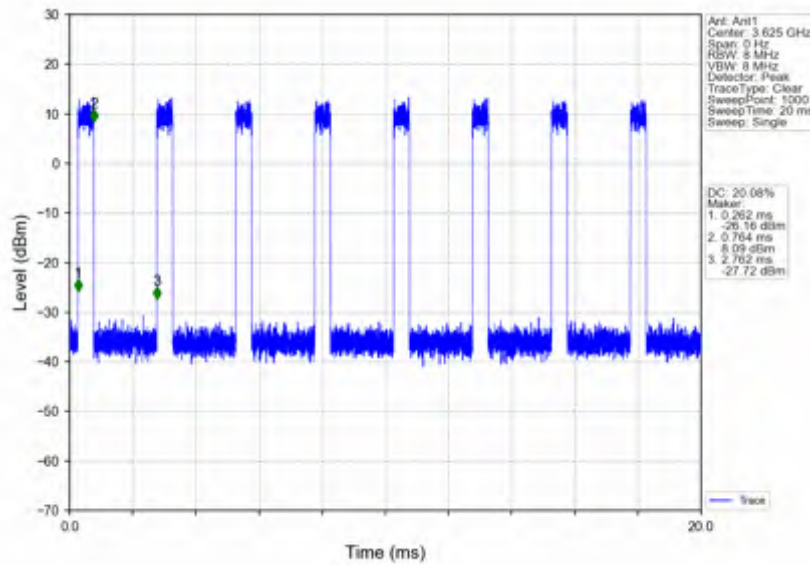


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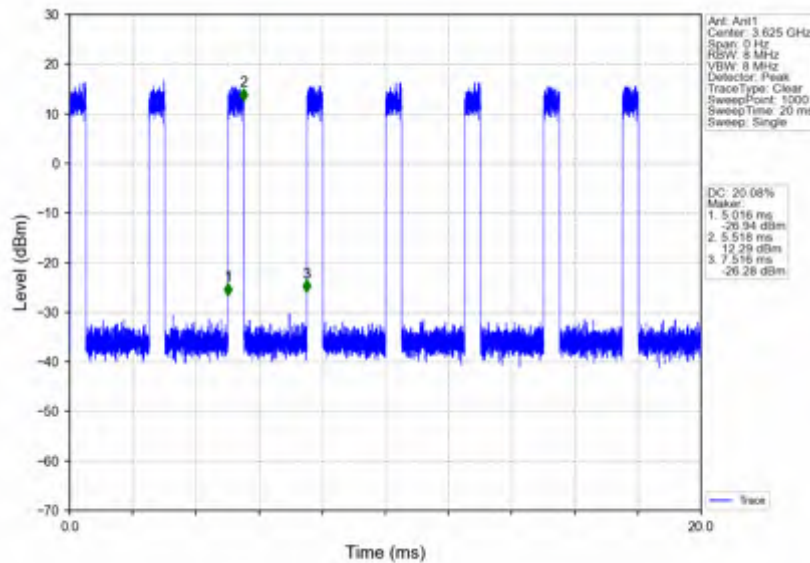
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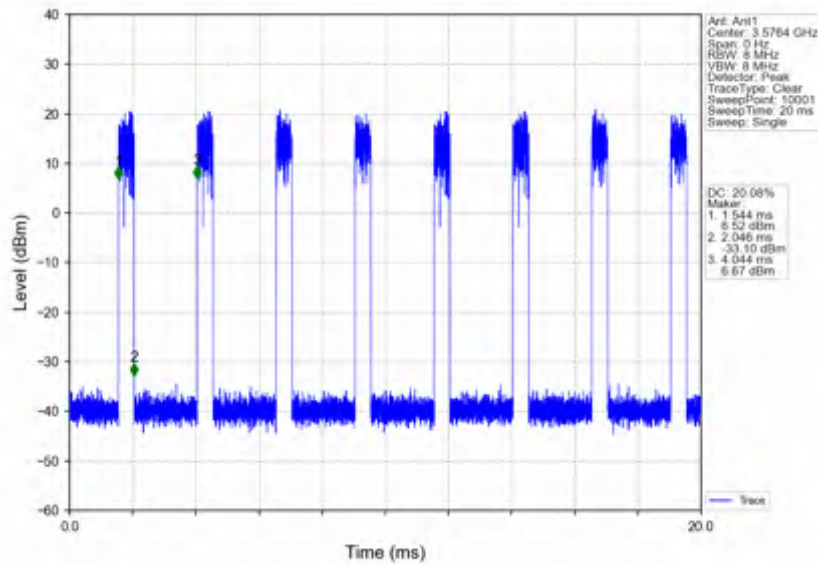
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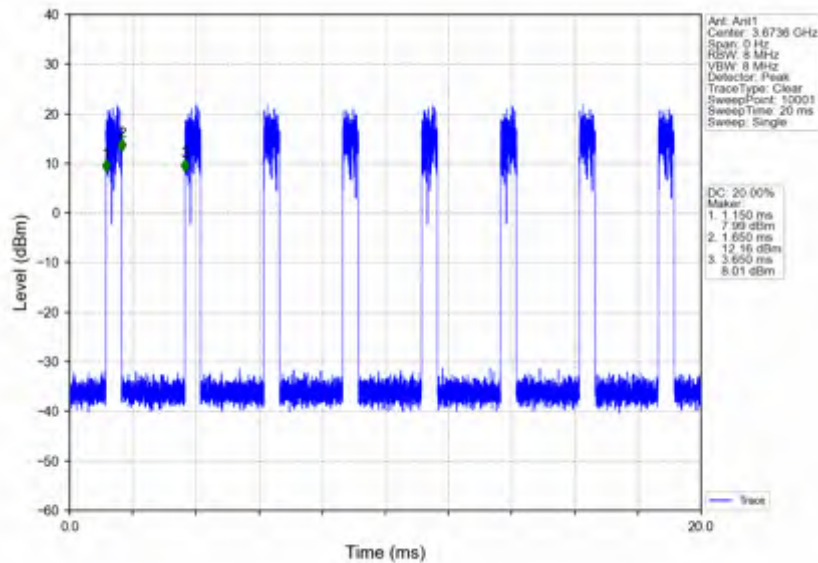
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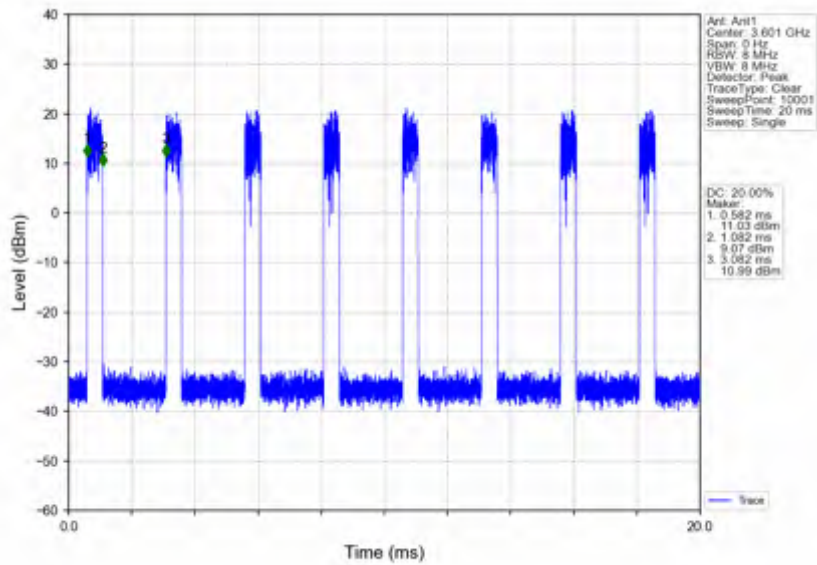


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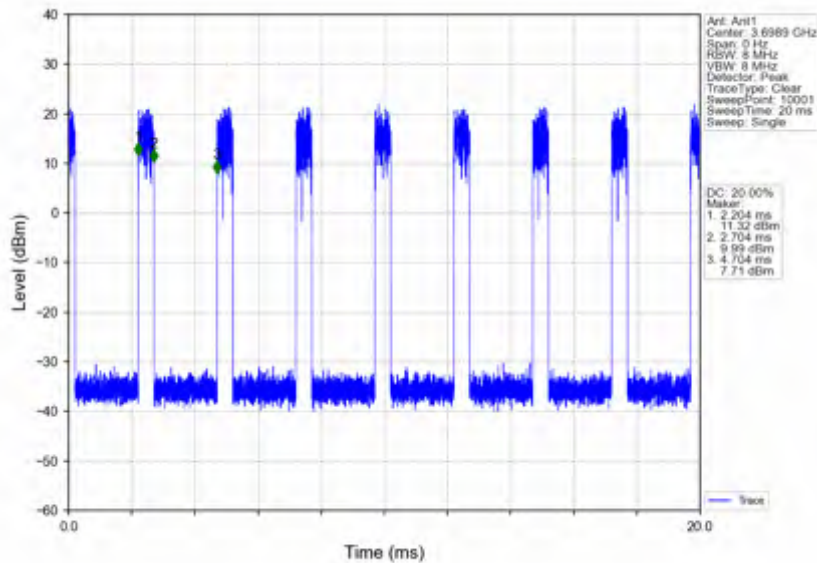
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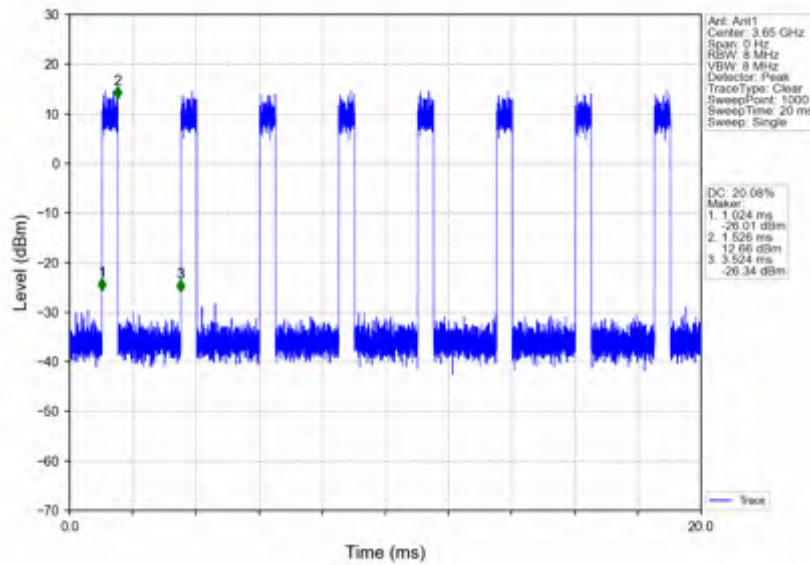
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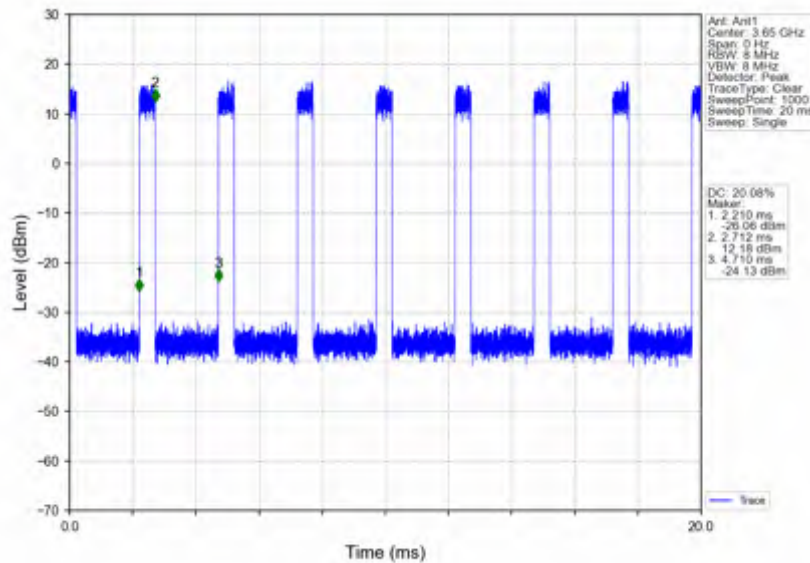
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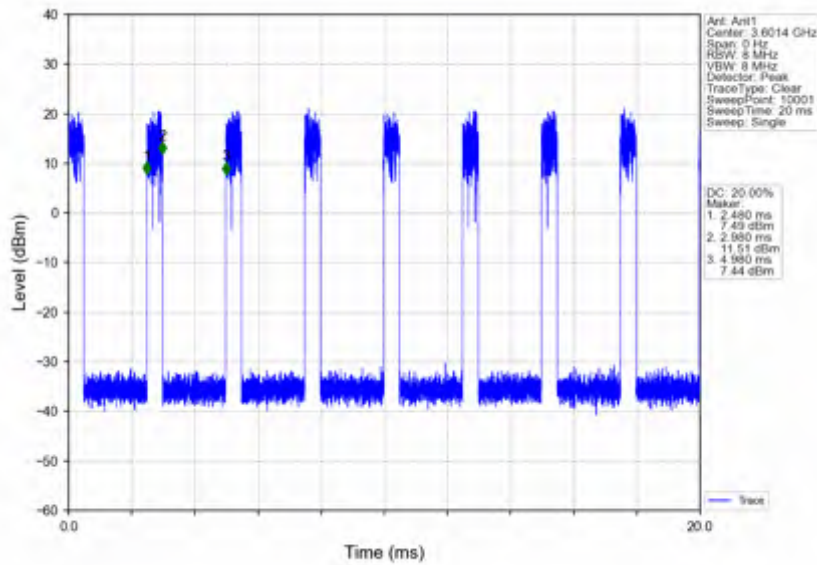
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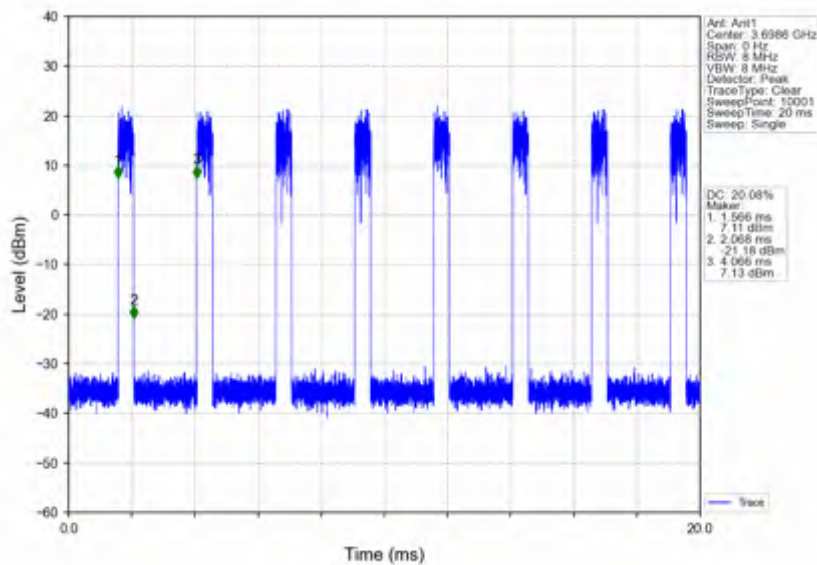
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3649.98MHz_Inner_1RB_Left



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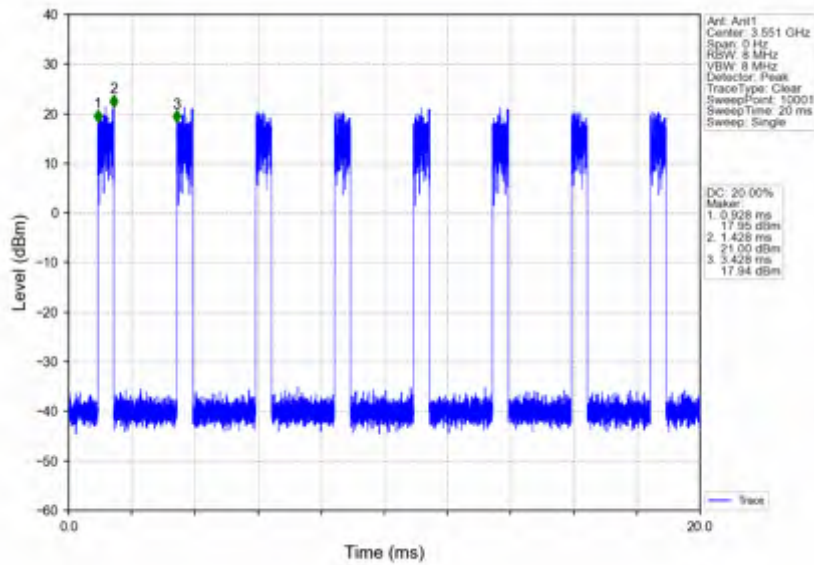


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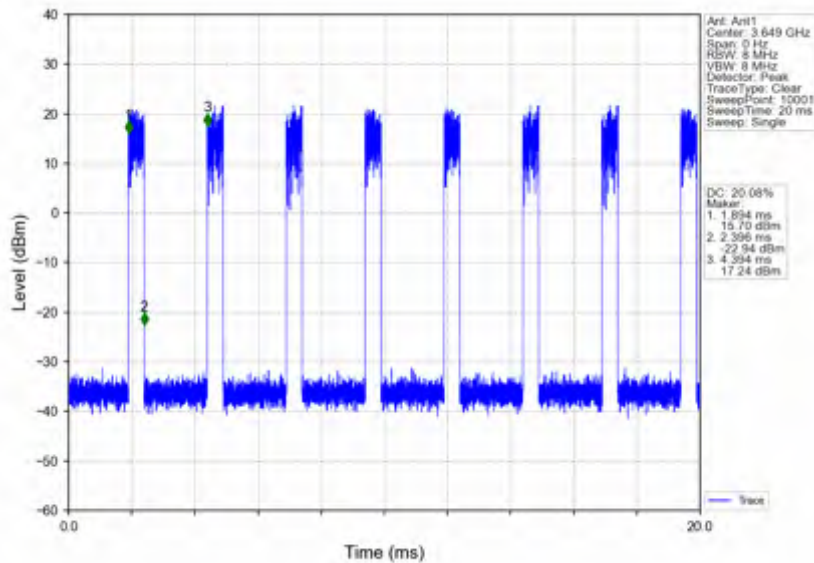
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3600MHz_Edge_1RB_Left



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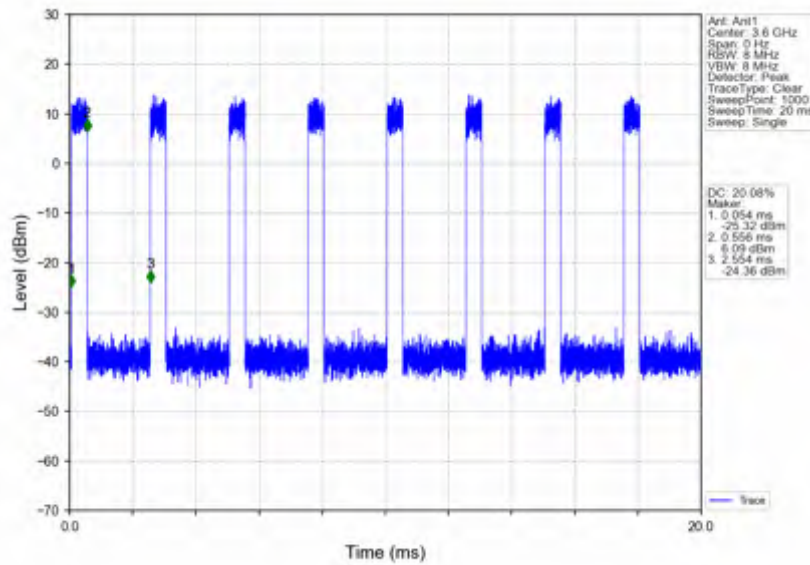
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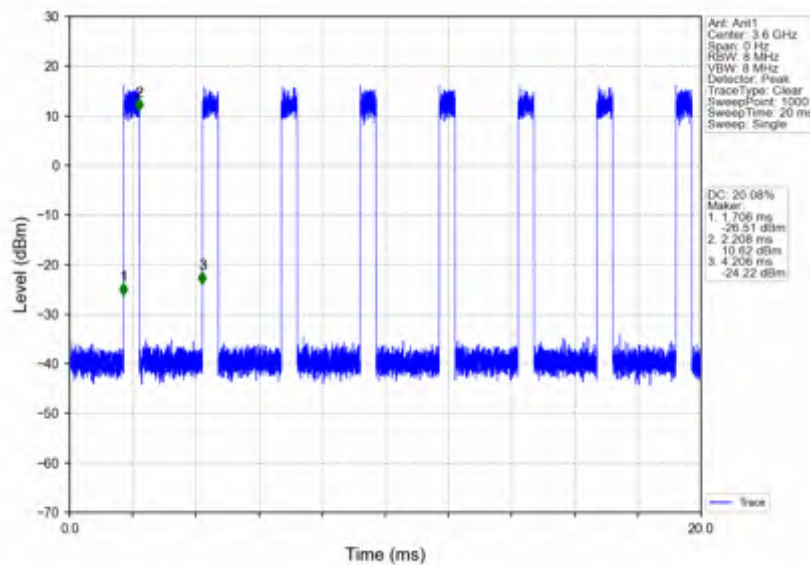
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3600MHz_Outer_Full



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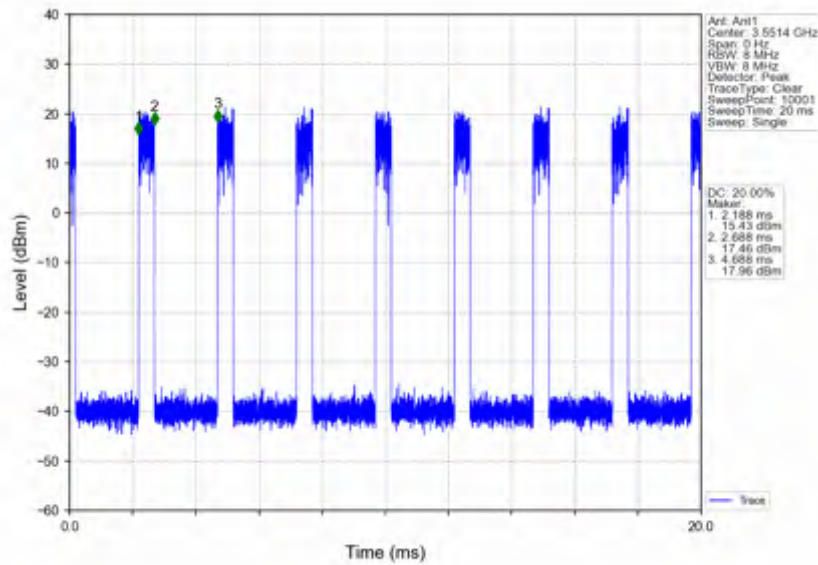


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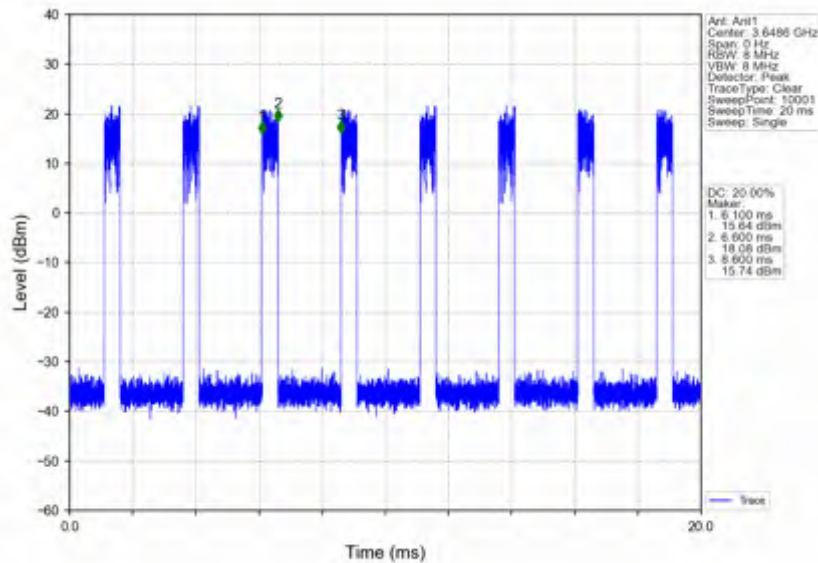
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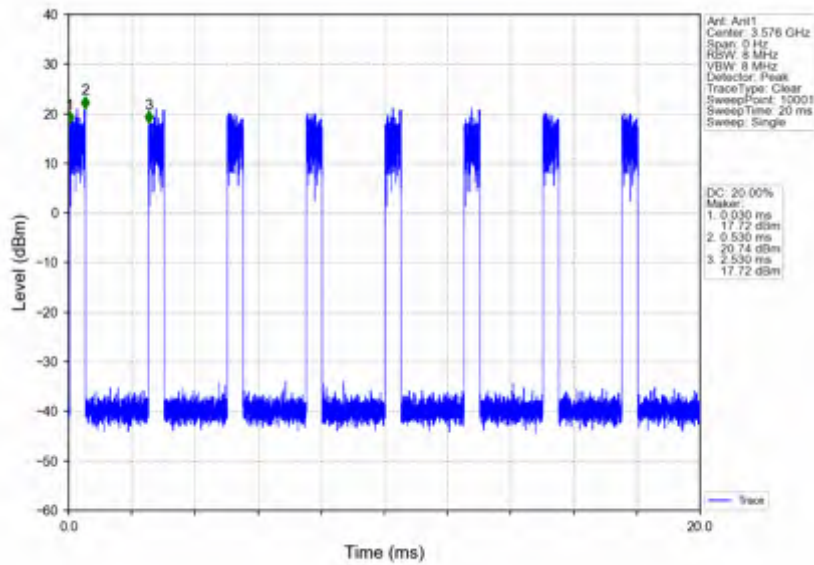


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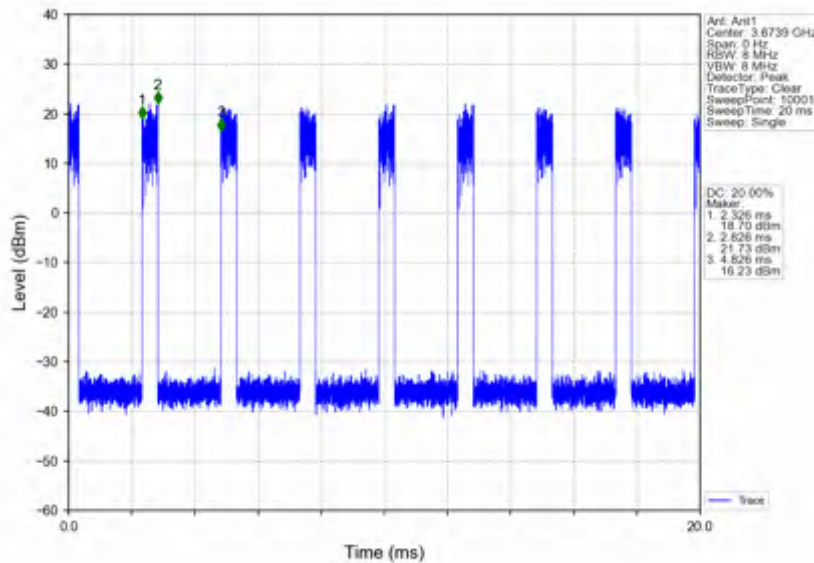
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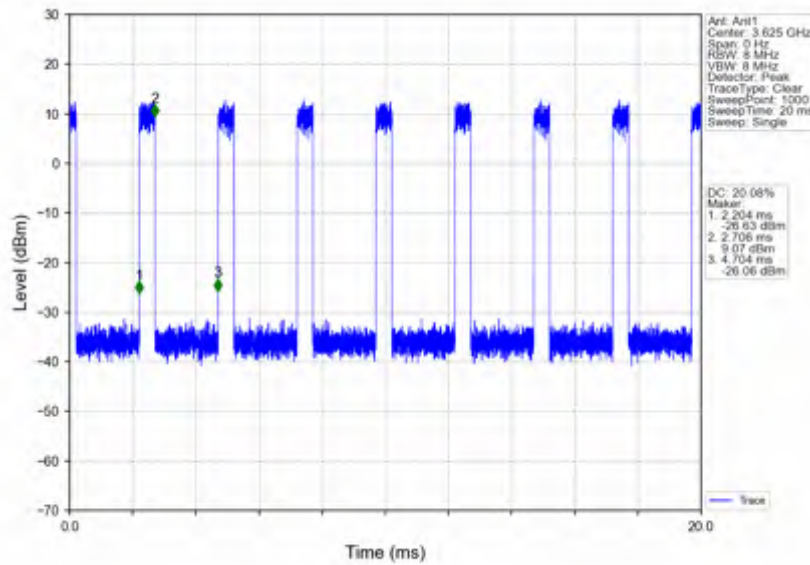


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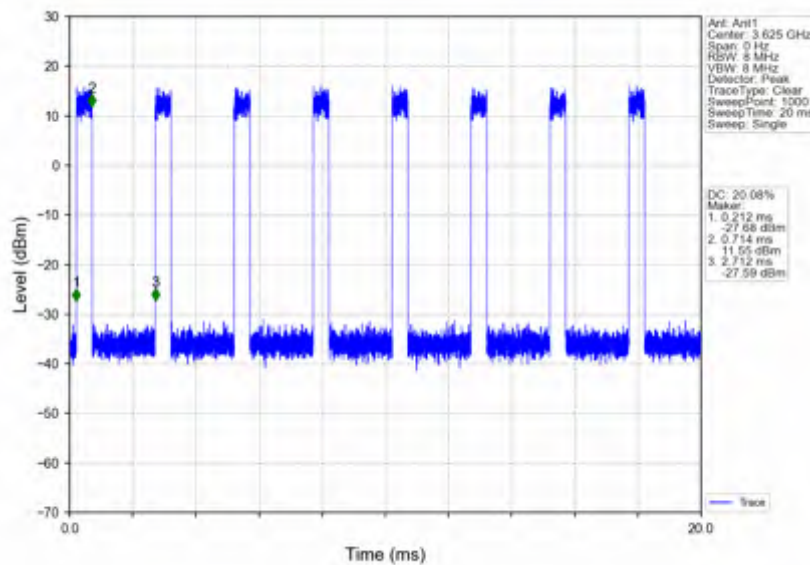
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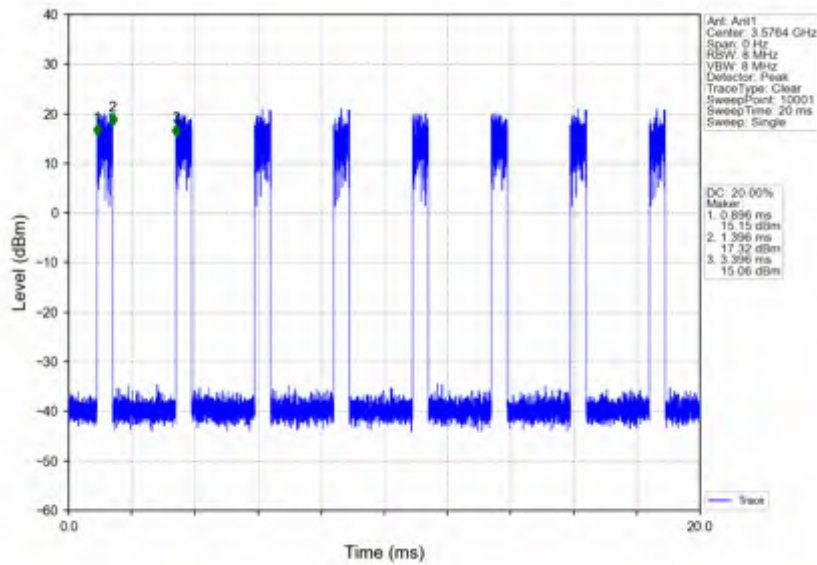
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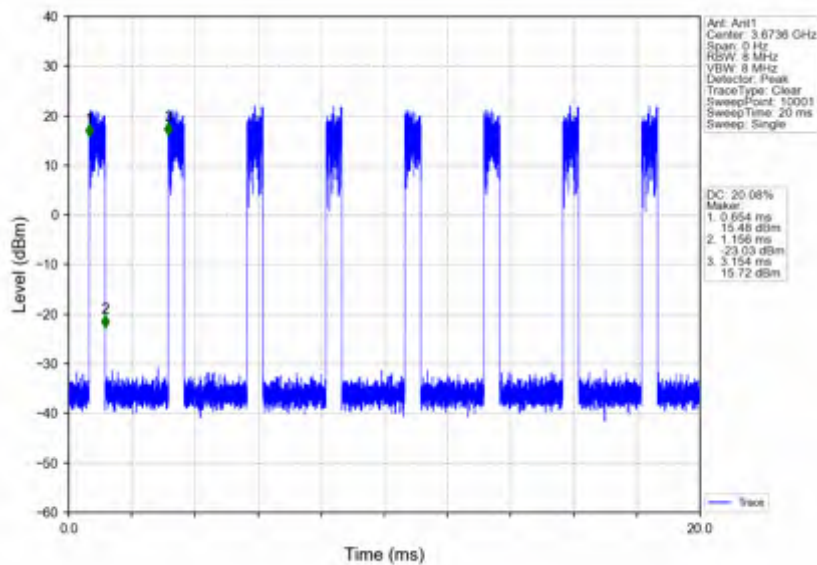
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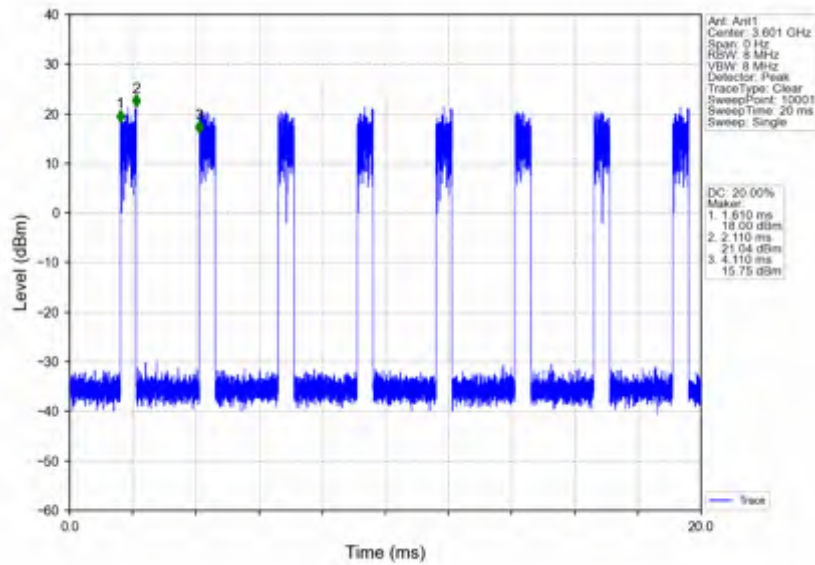


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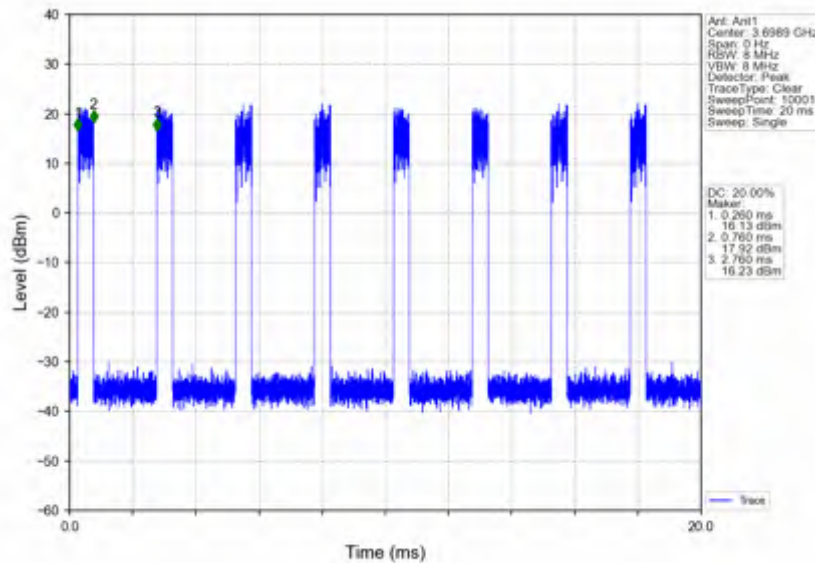
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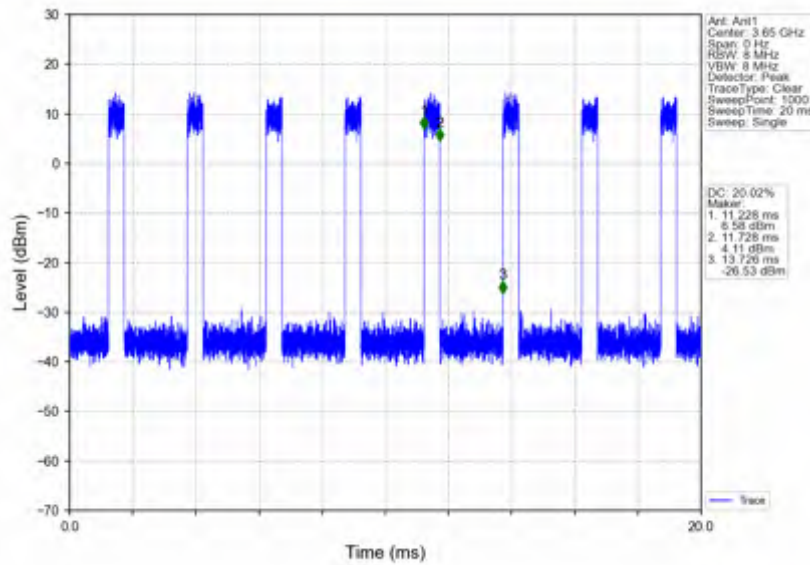


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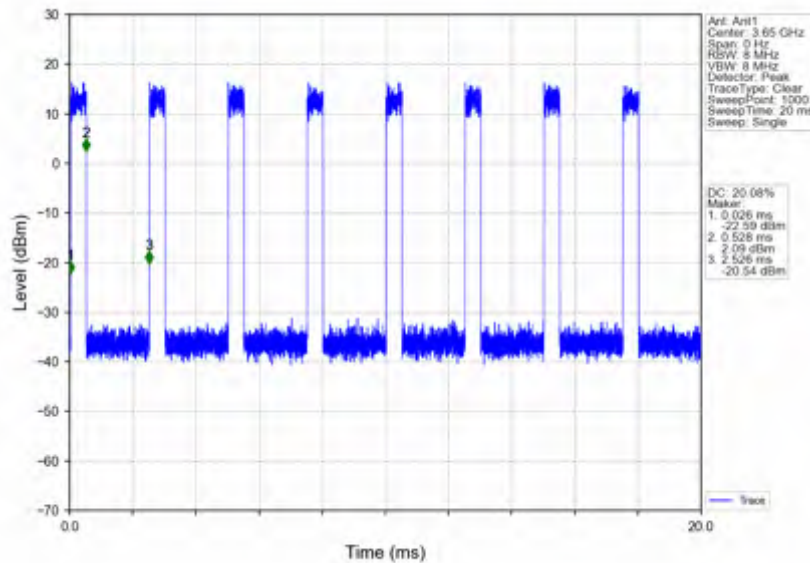
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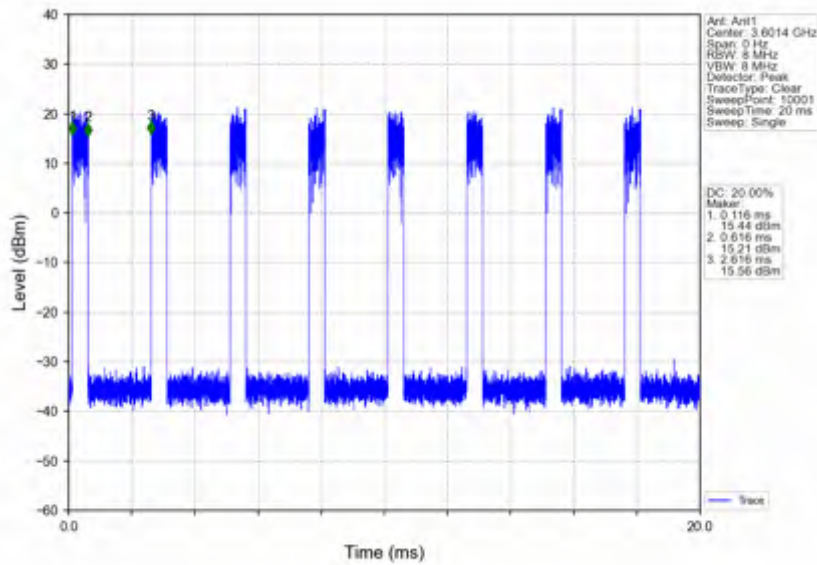
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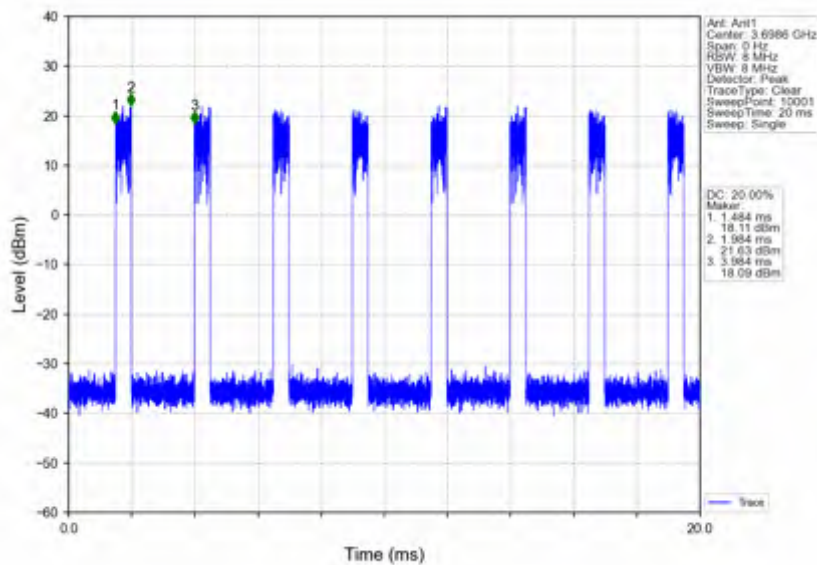
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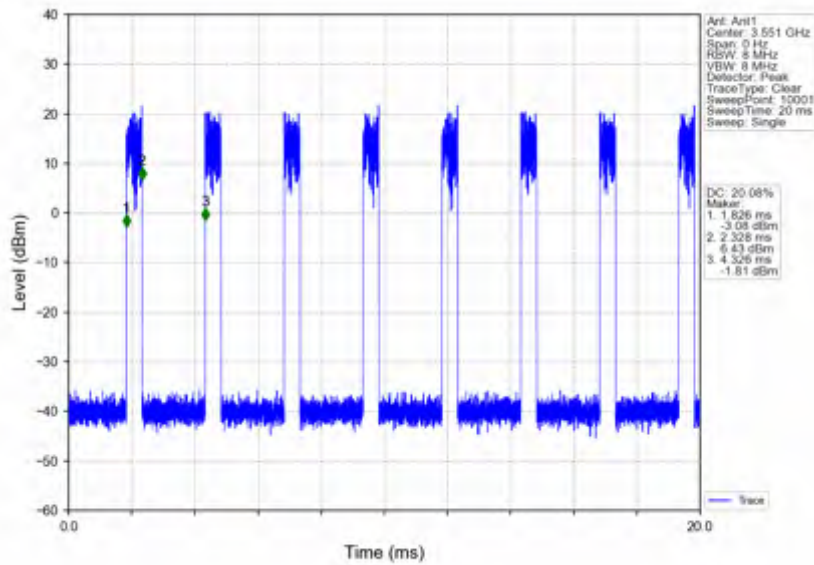


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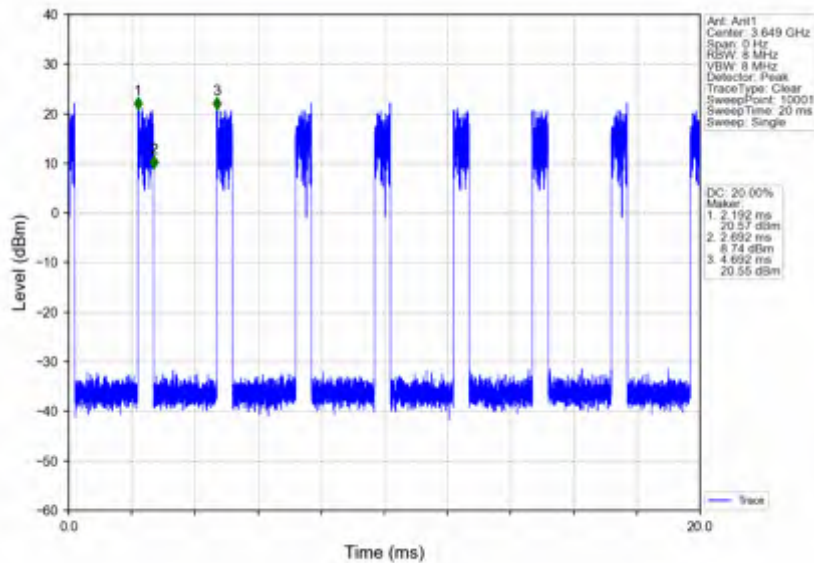
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