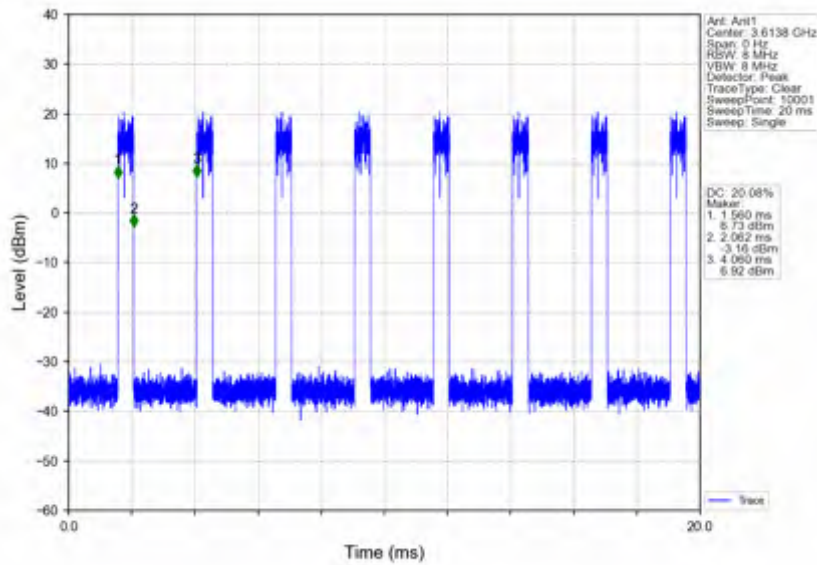
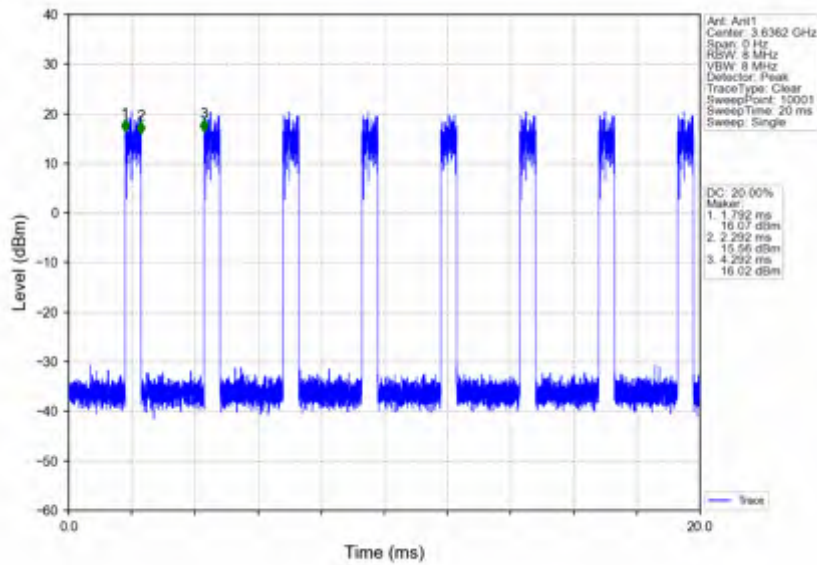


n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Inner_1RB_Left



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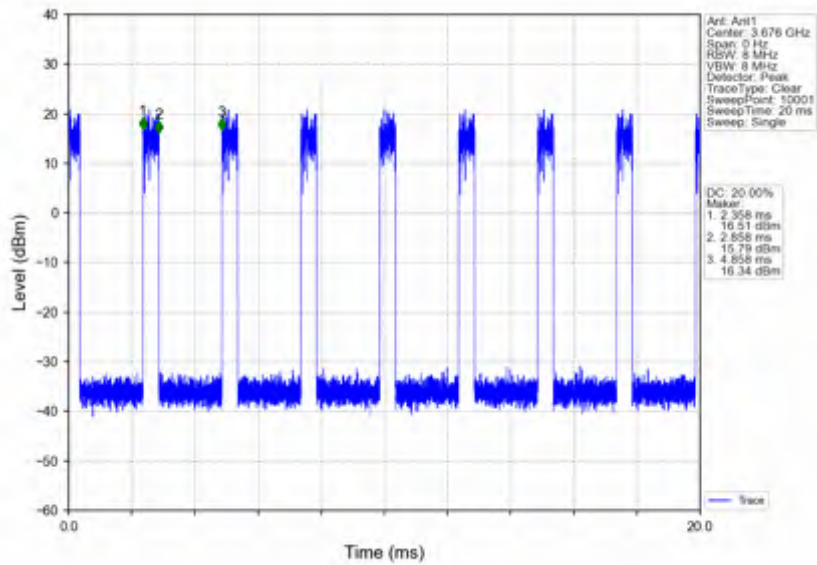


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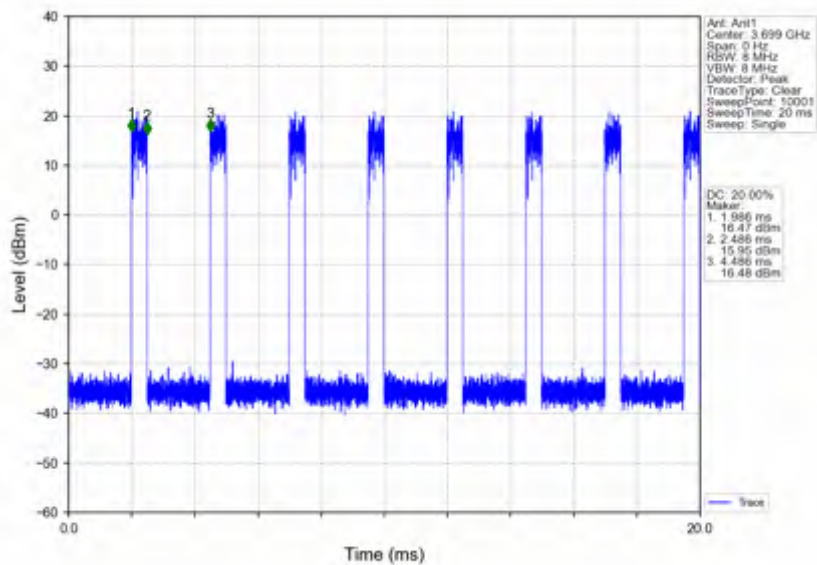
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3687.48MHz_Edge_1RB_Left



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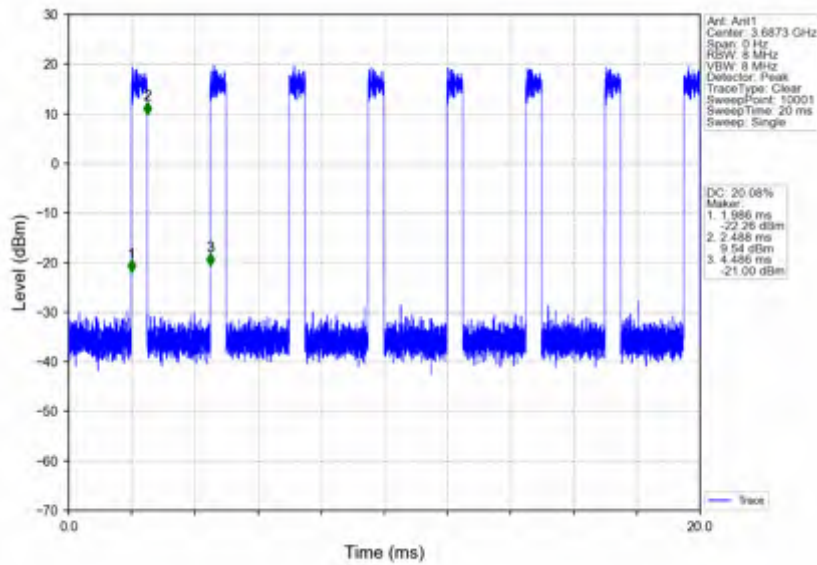


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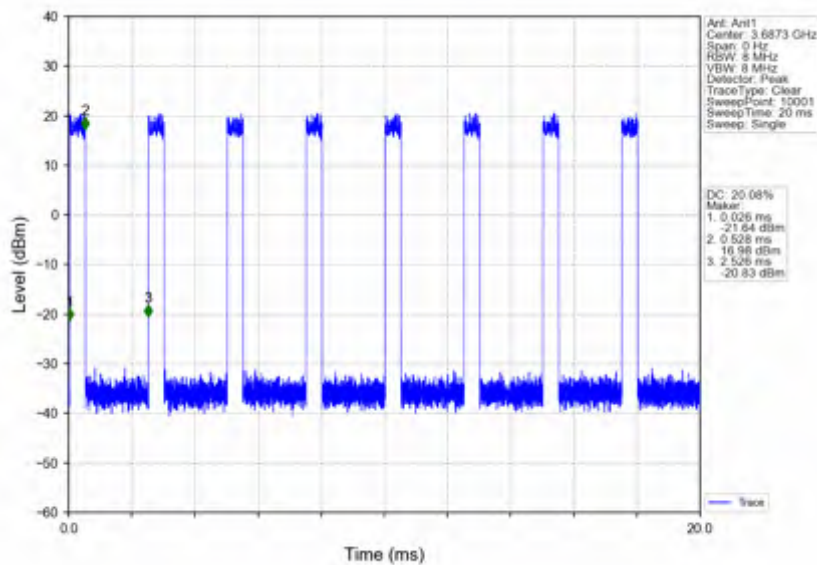
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3687.48MHz_Outer_Full



n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3687.48MHz_Inner_Full



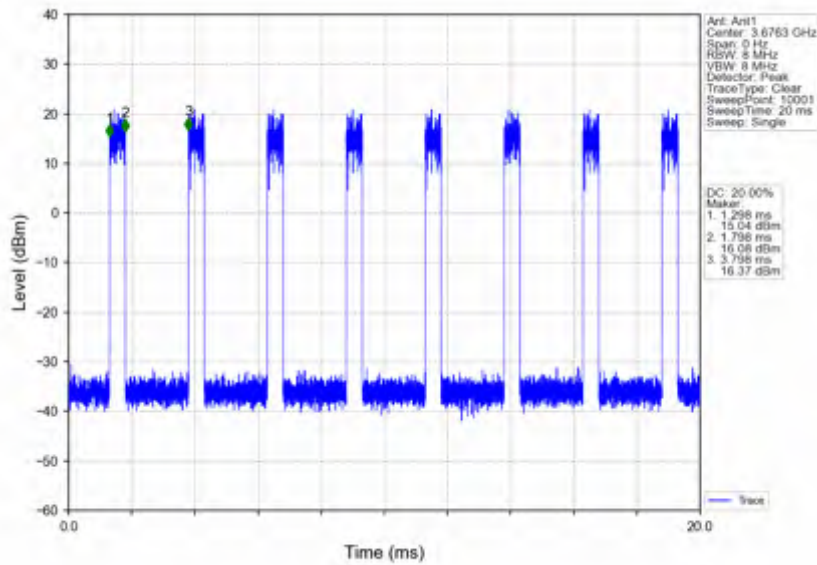
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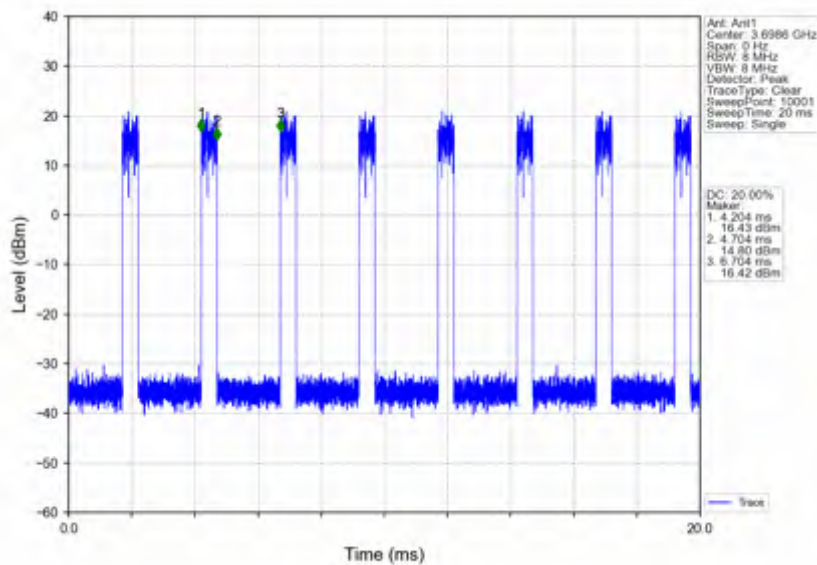
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3687.48MHz_Inner_1RB_Left



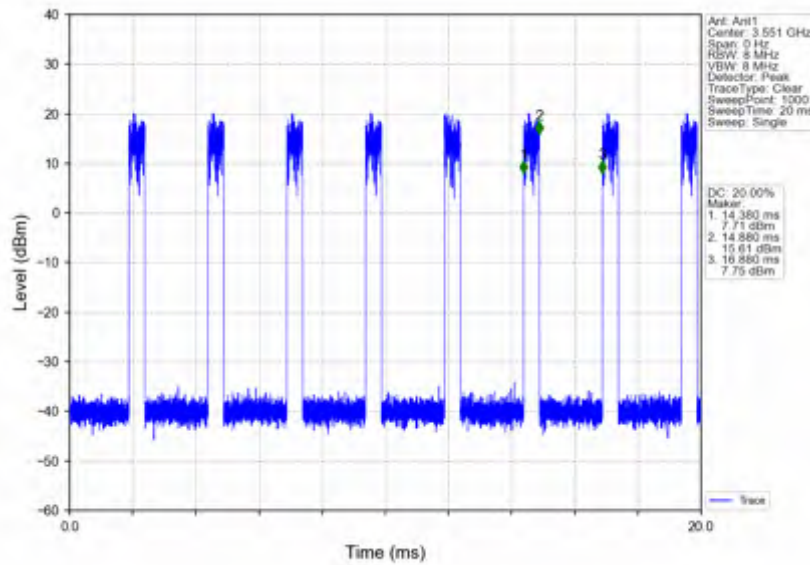
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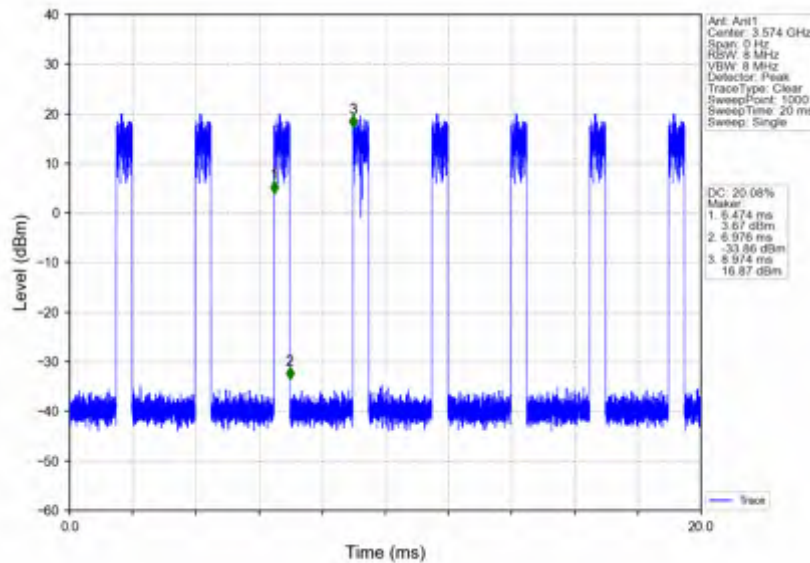
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_3562.5MHz_Edge_1RB_Left



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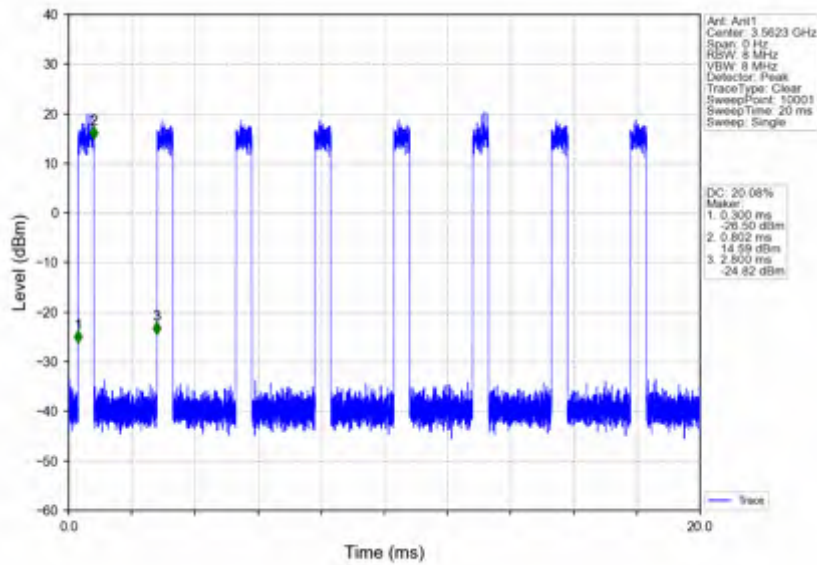


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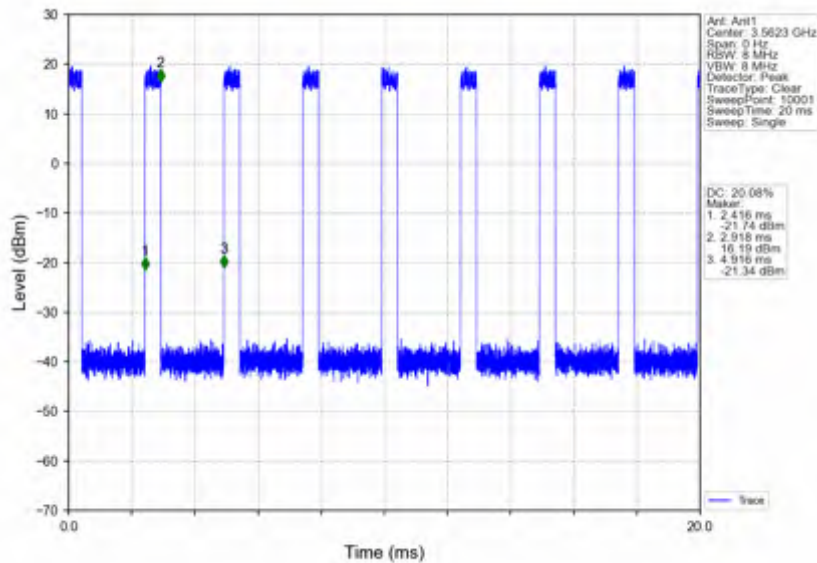
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_3562.5MHz_Outer_Full



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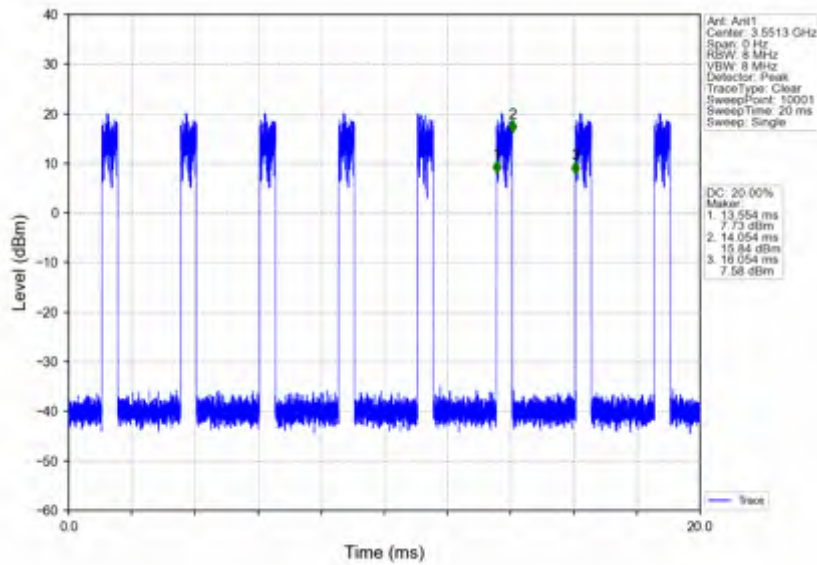


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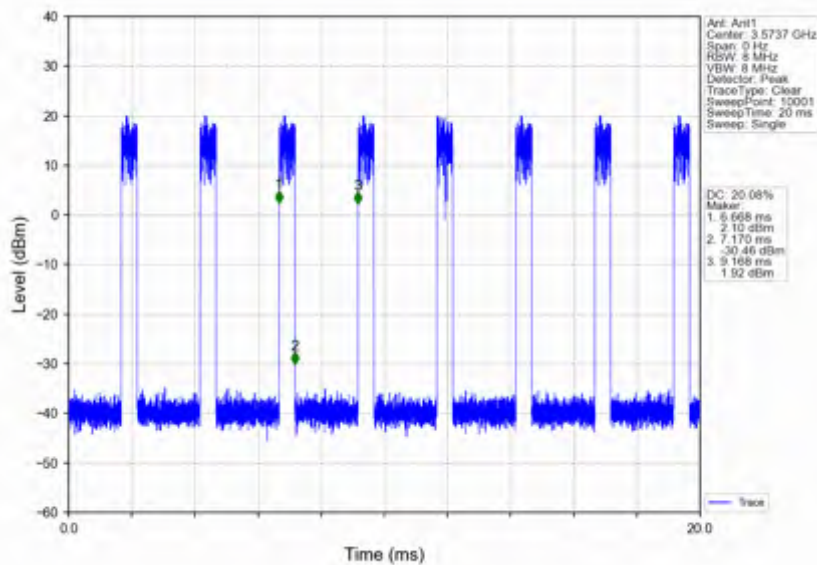
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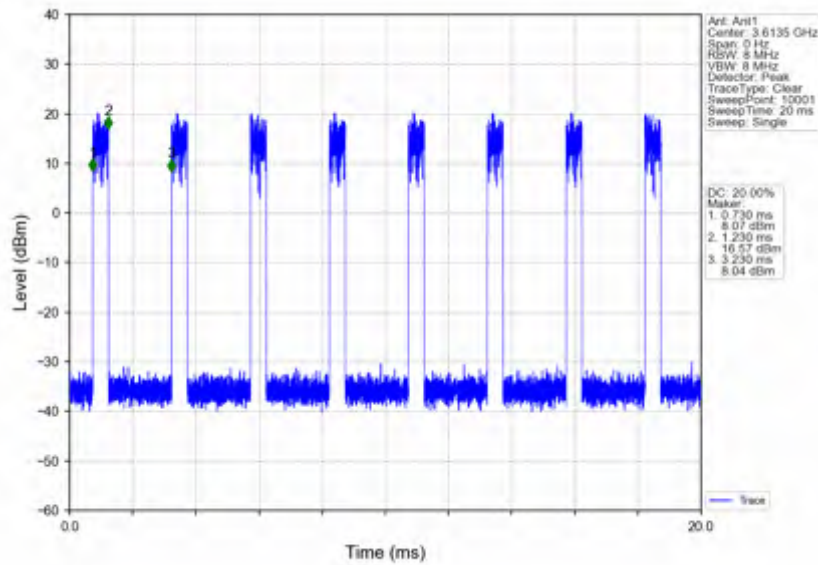


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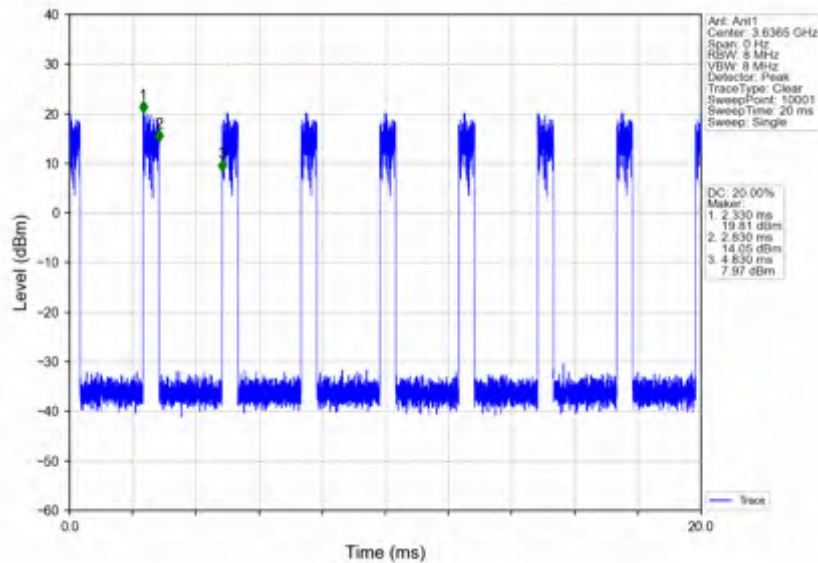
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



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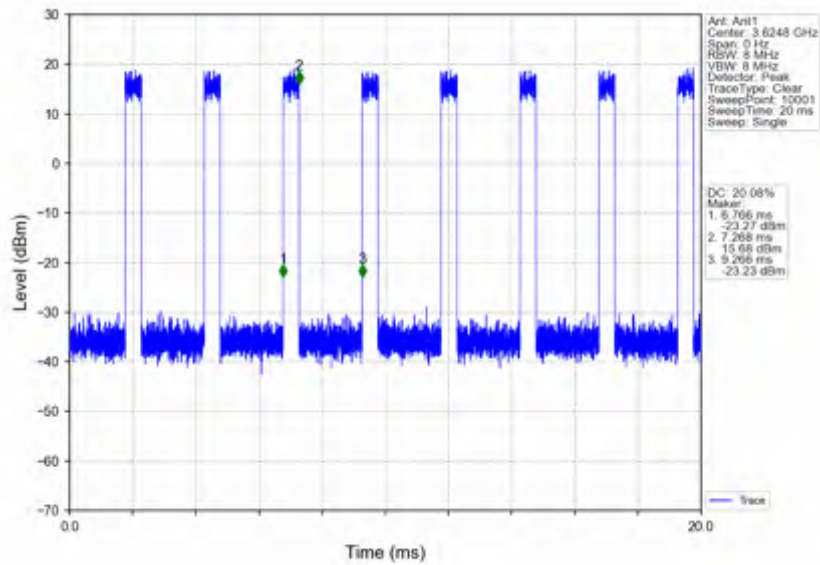


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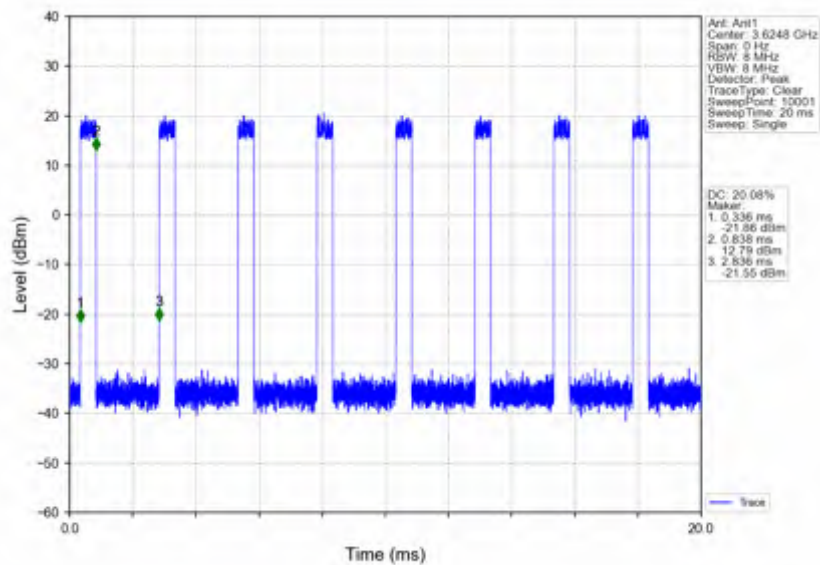
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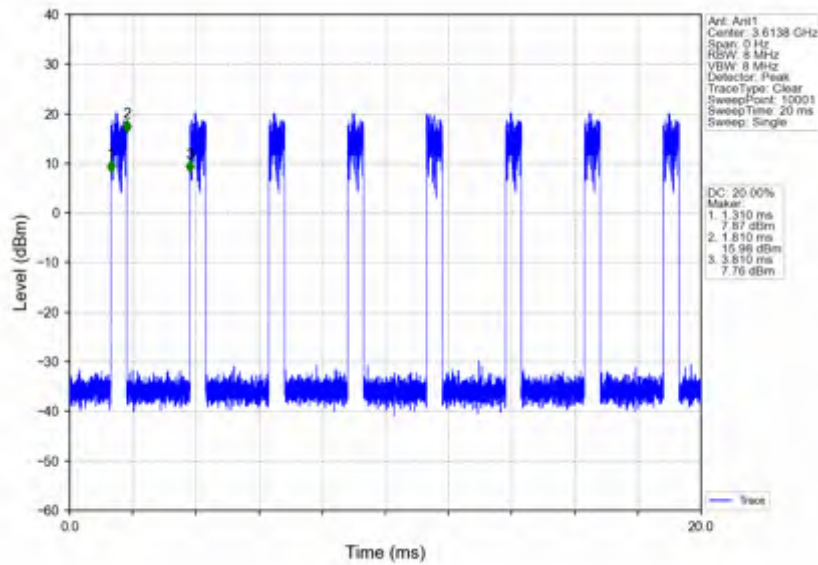


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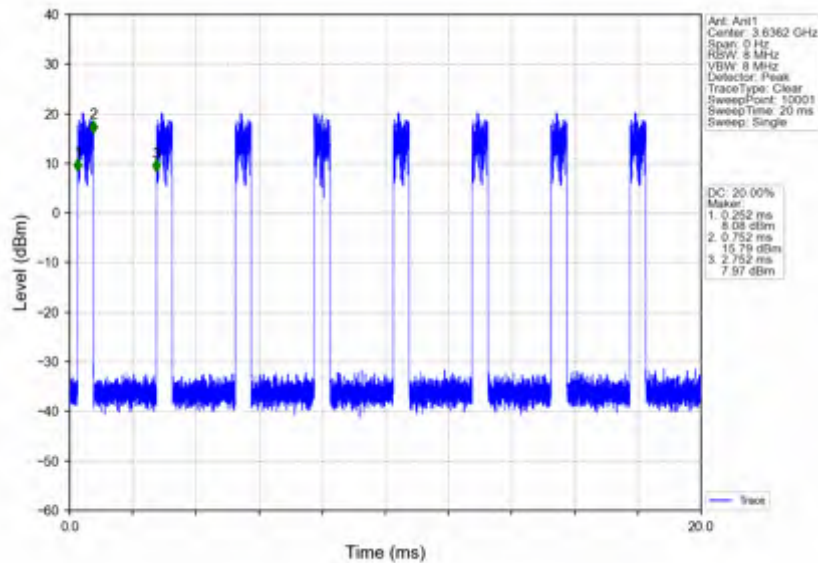
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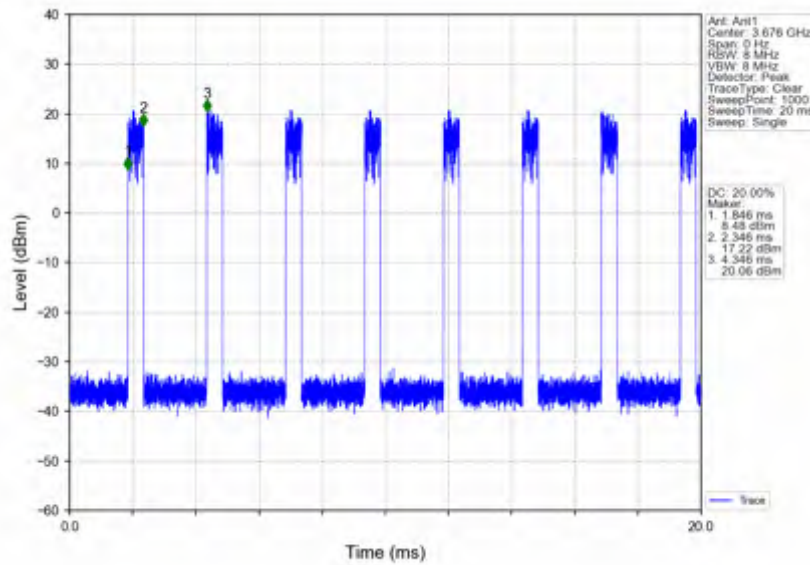


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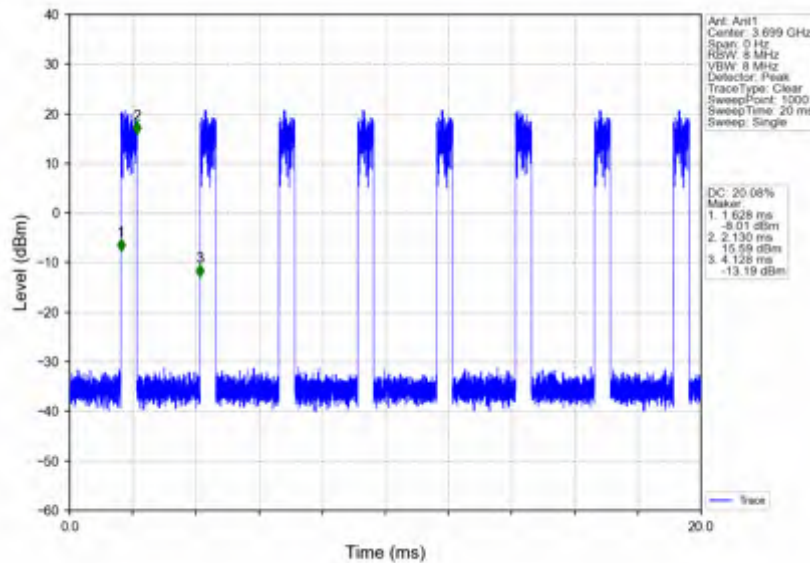
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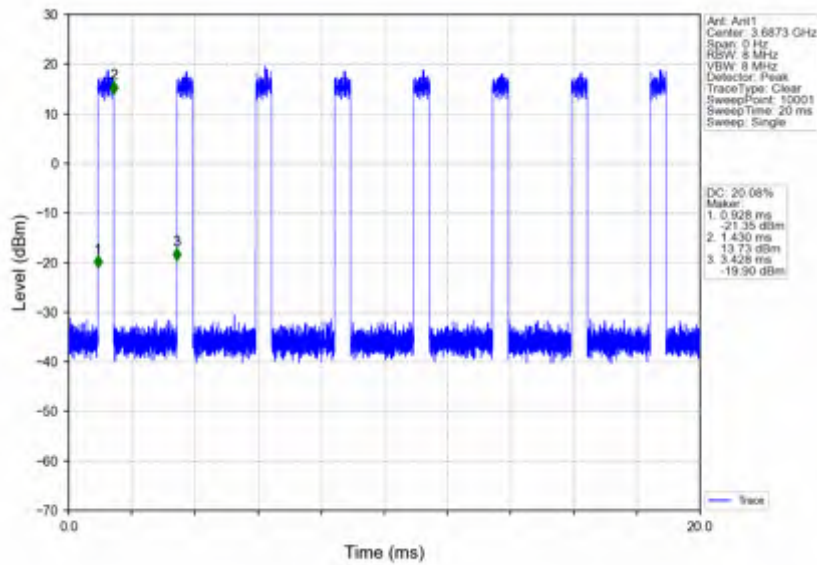
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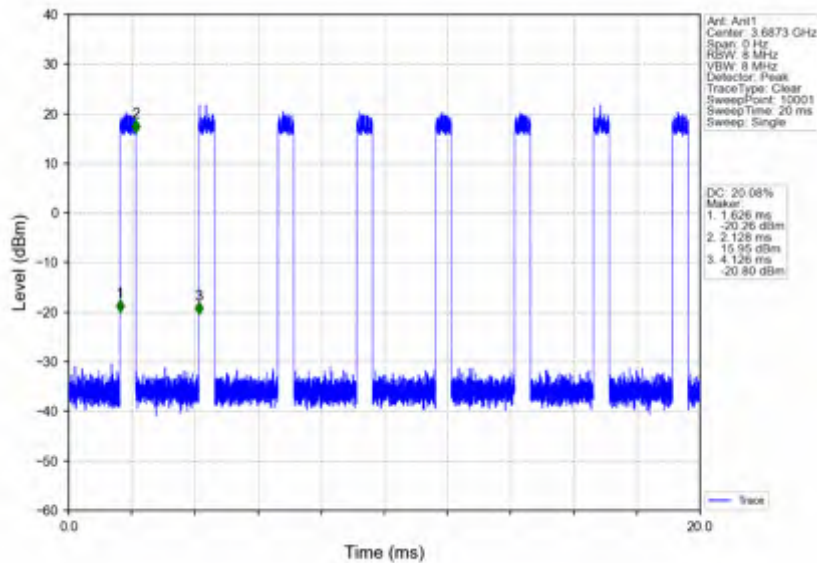
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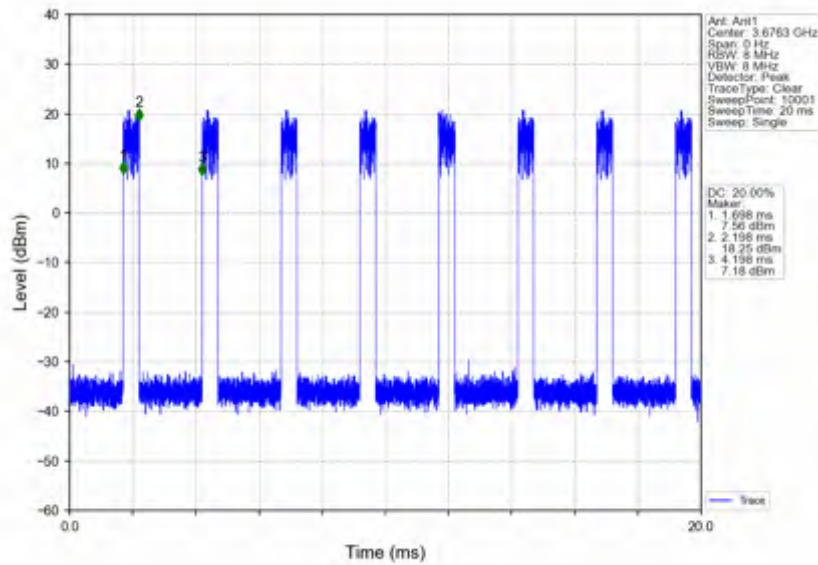
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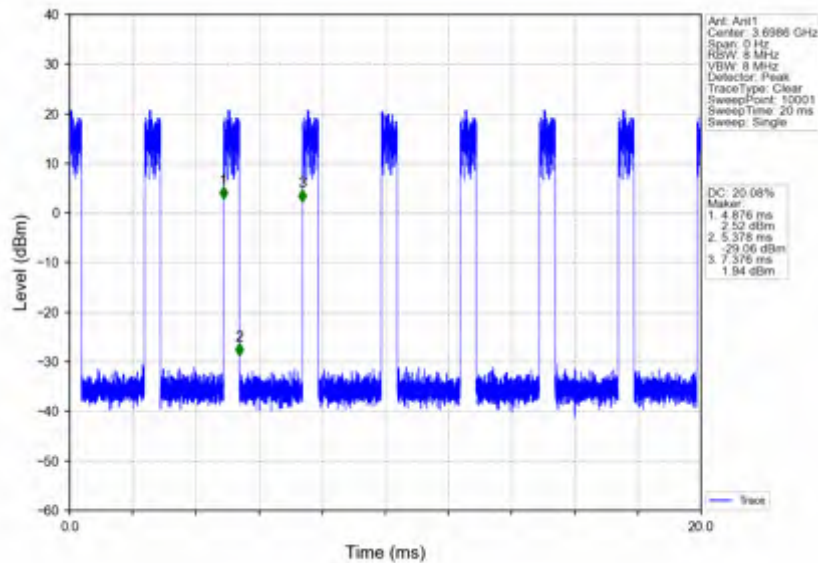
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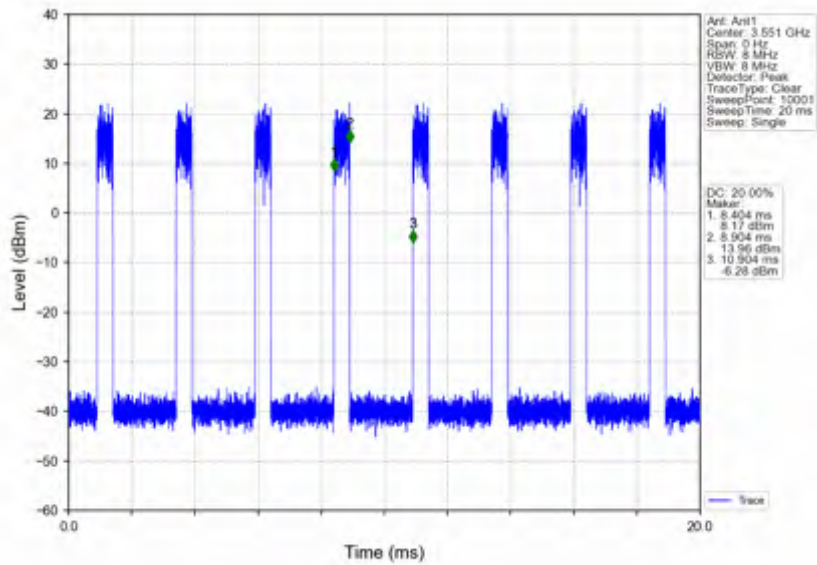


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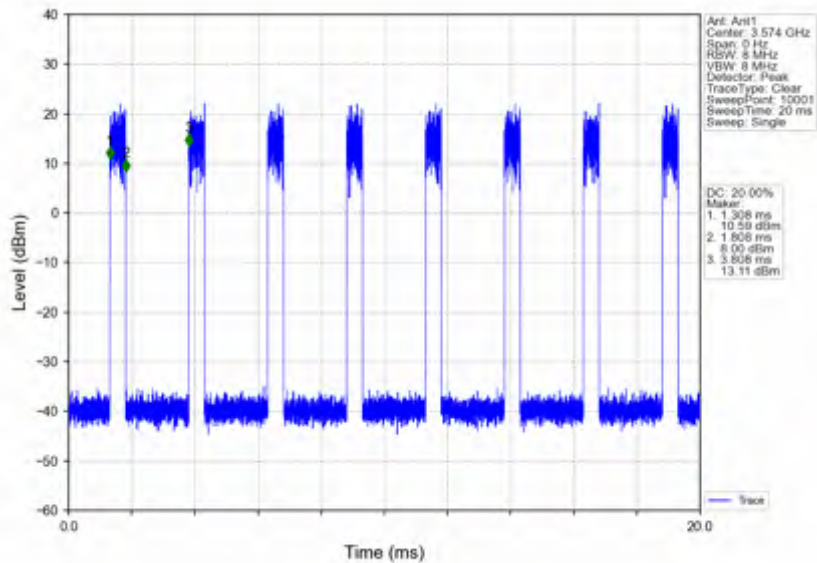
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3562.5MHz_Edge_1RB_Left



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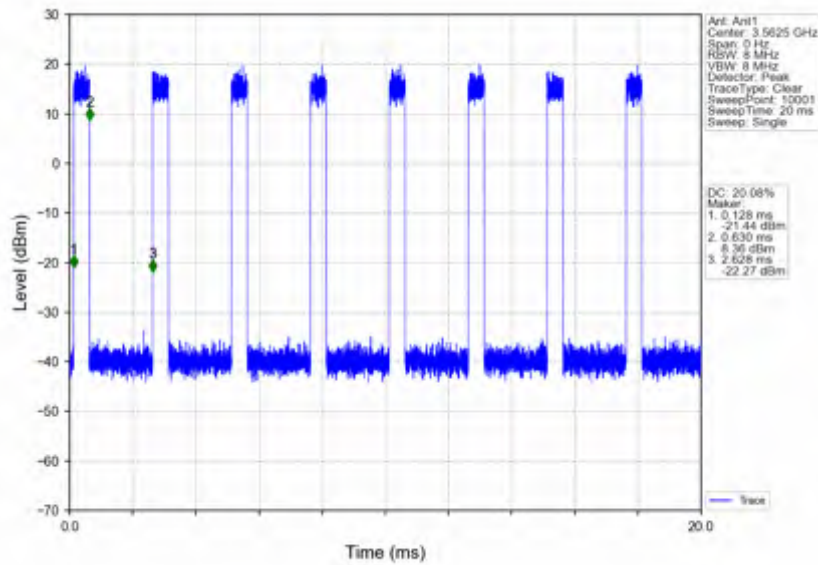


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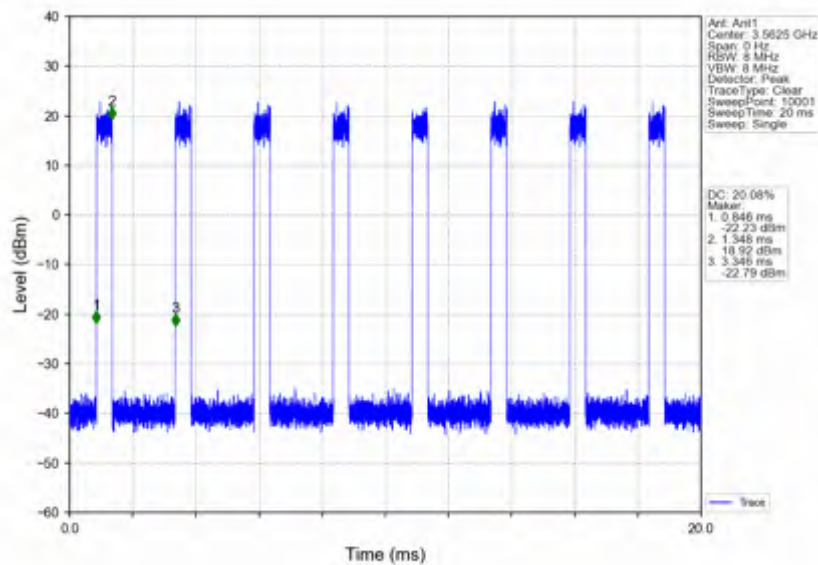
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3562.5MHz_Outer_Full



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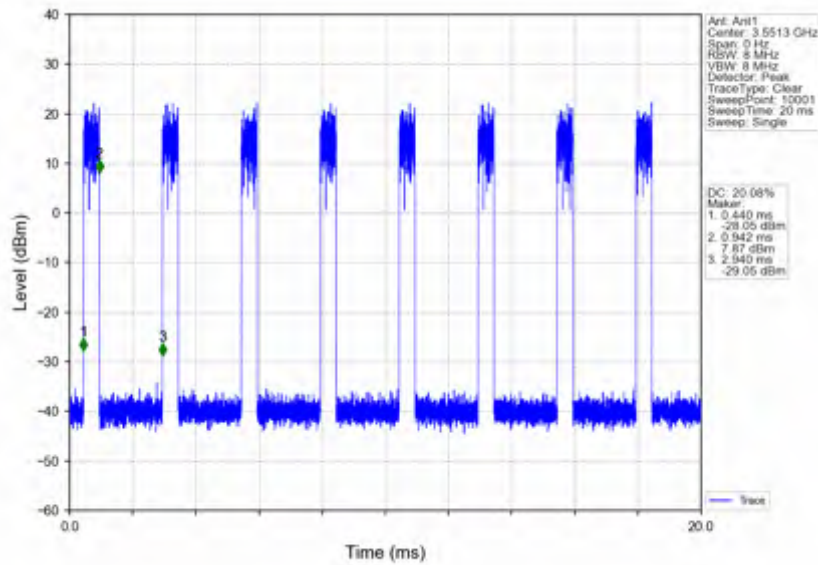


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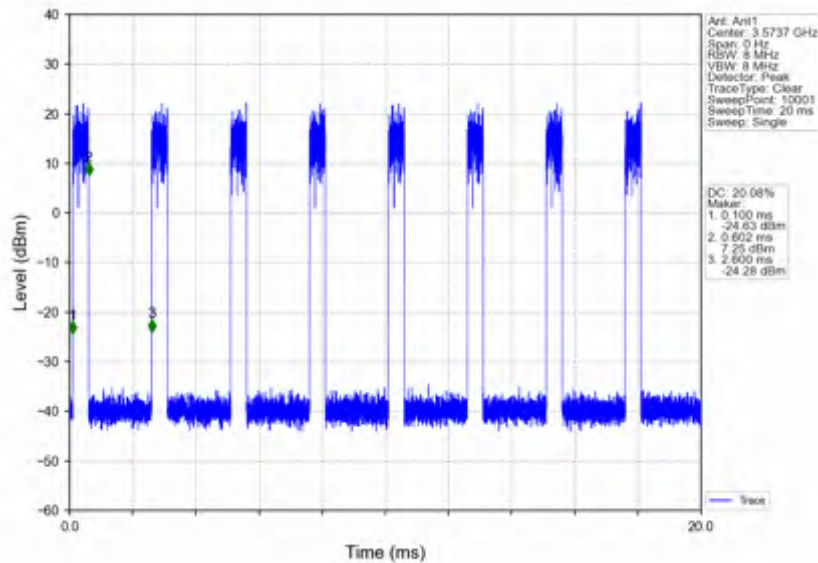
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3562.5MHz_Inner_1RB_Left



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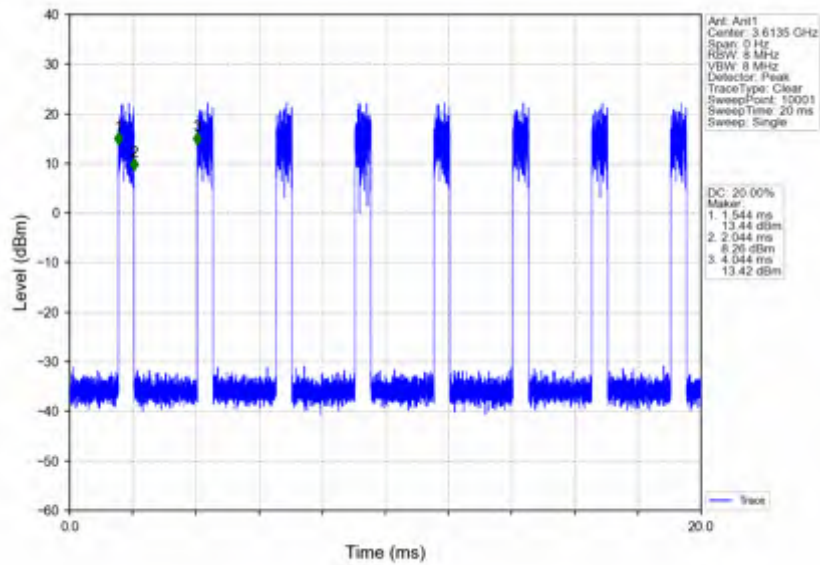


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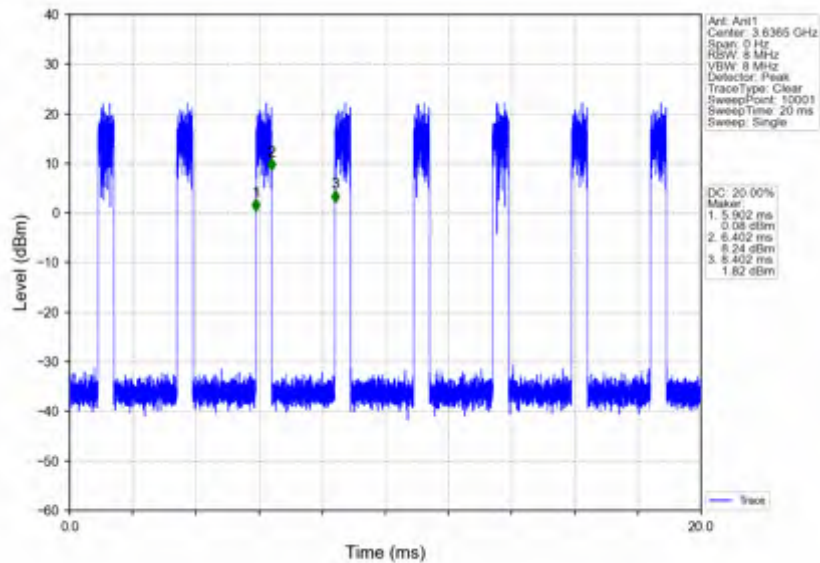
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n78d_30kHz_SISO_NTV_25MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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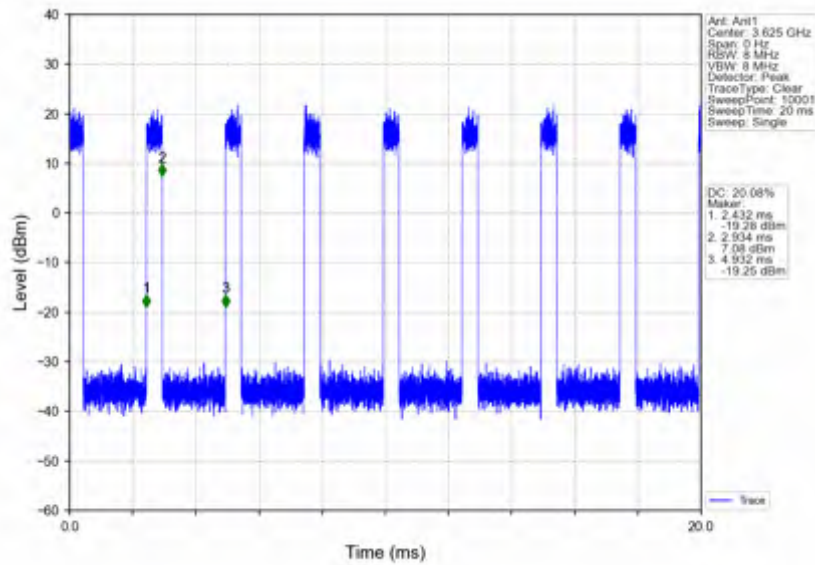
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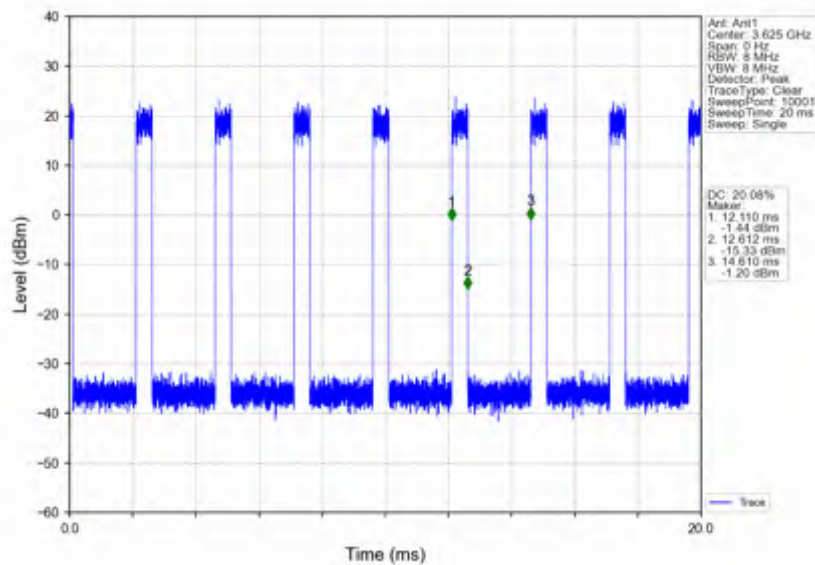
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



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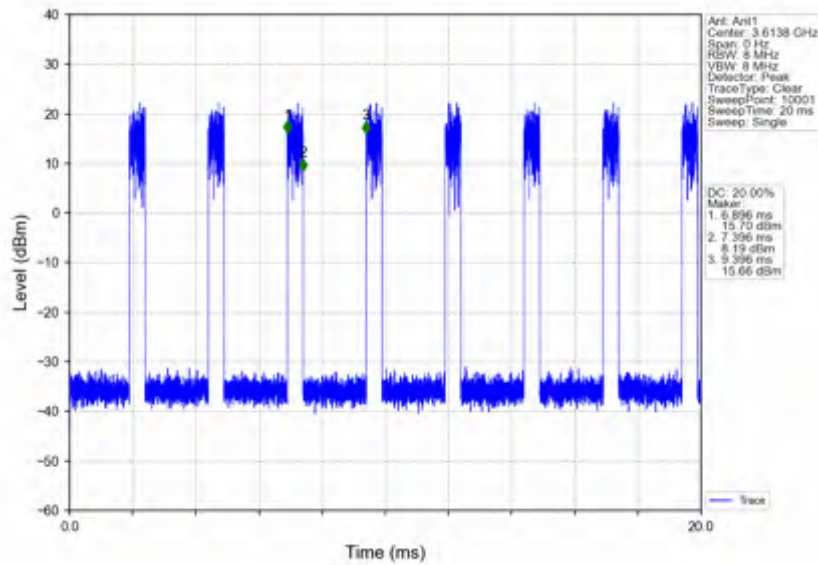


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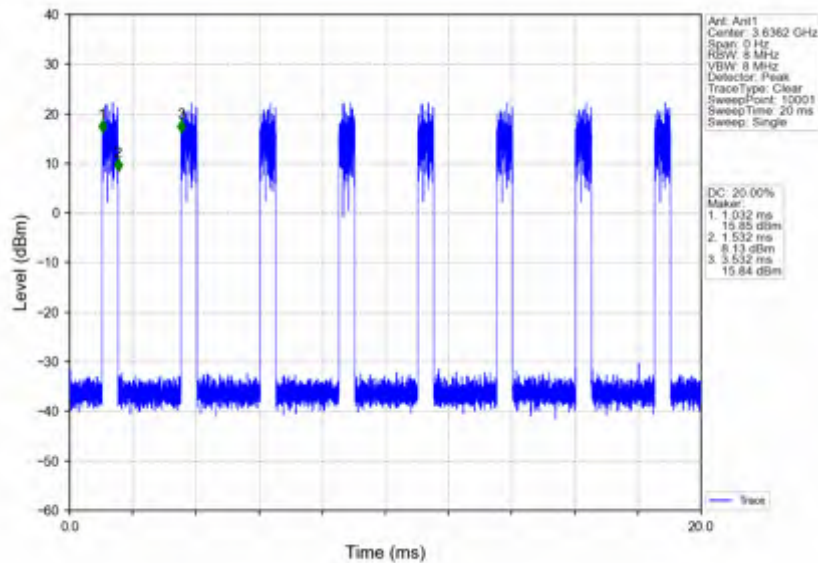
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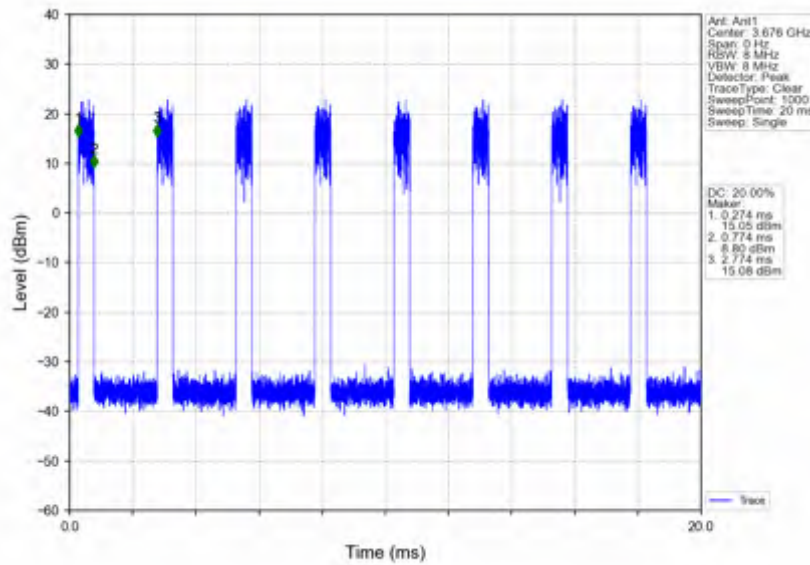


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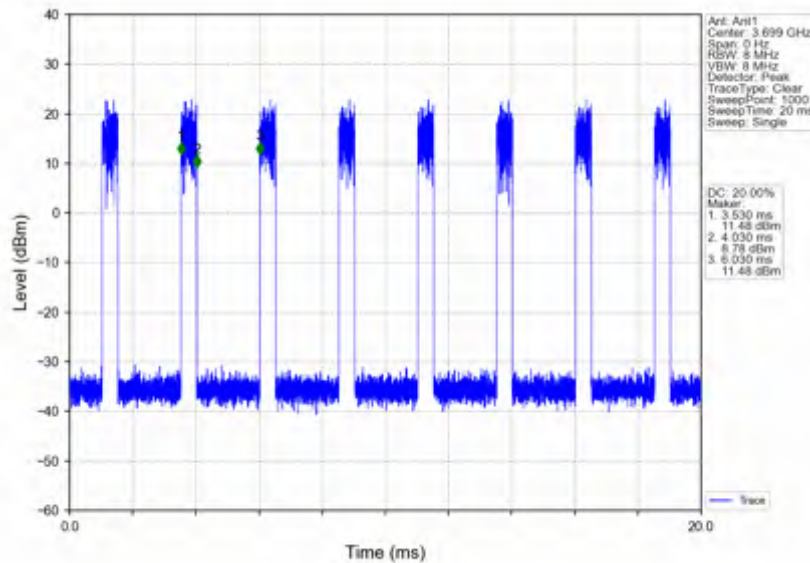
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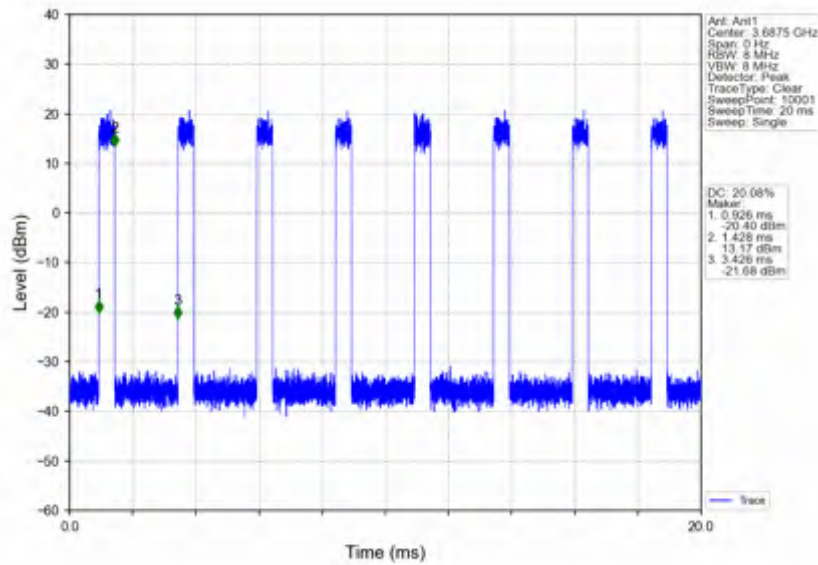
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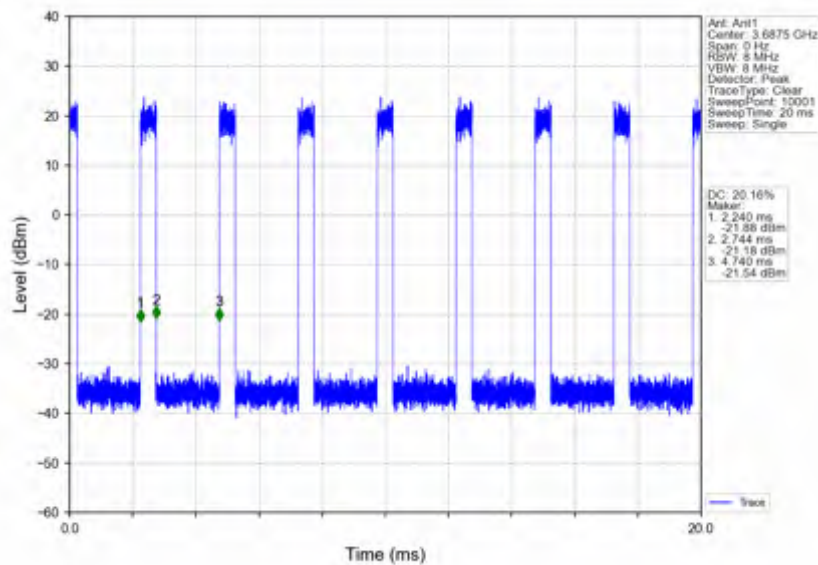
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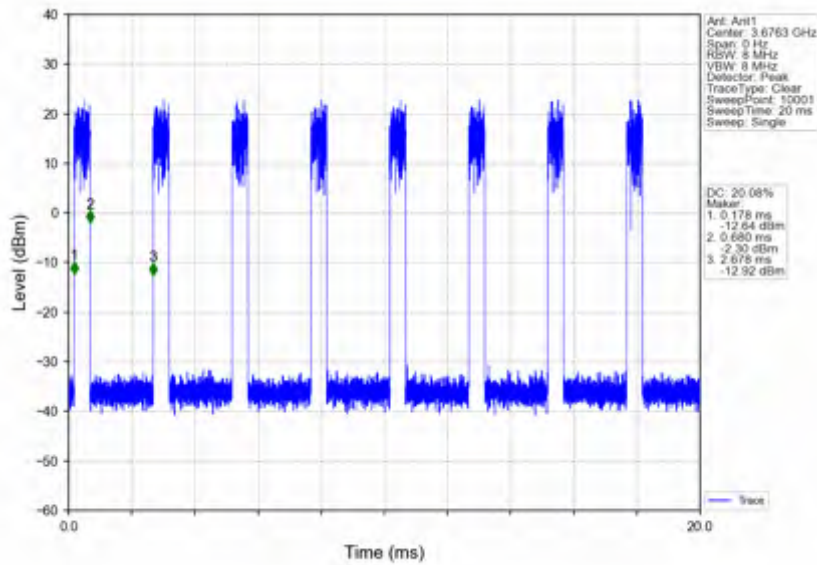


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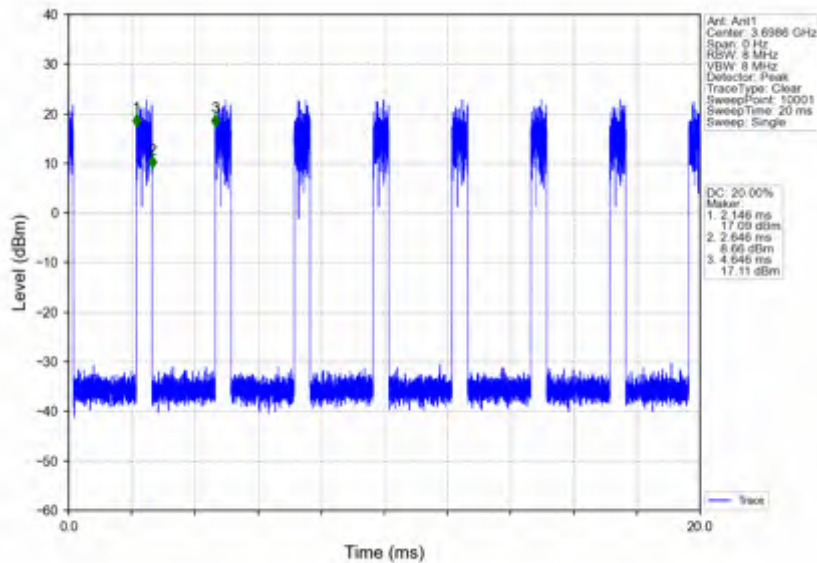
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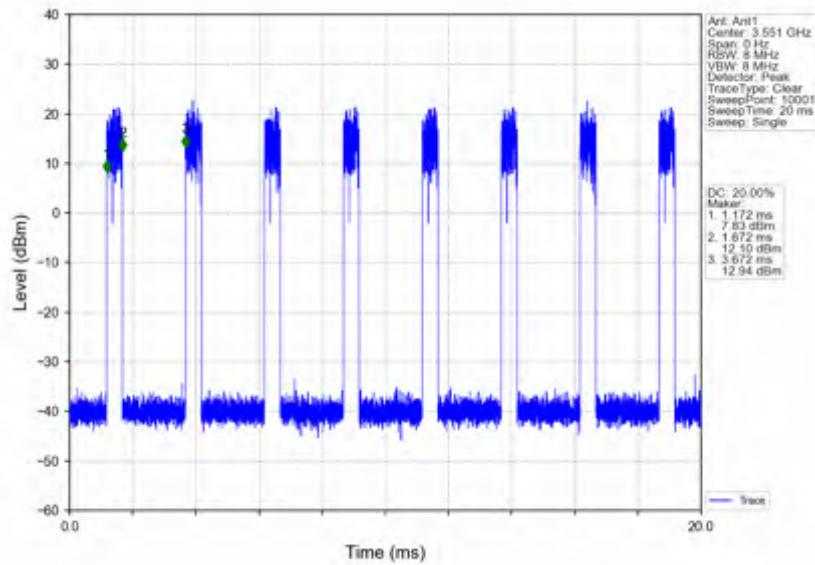
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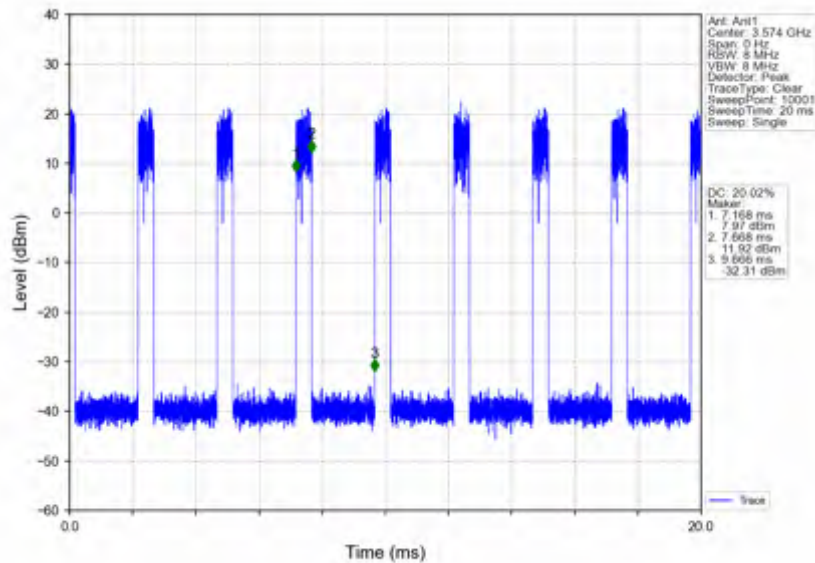
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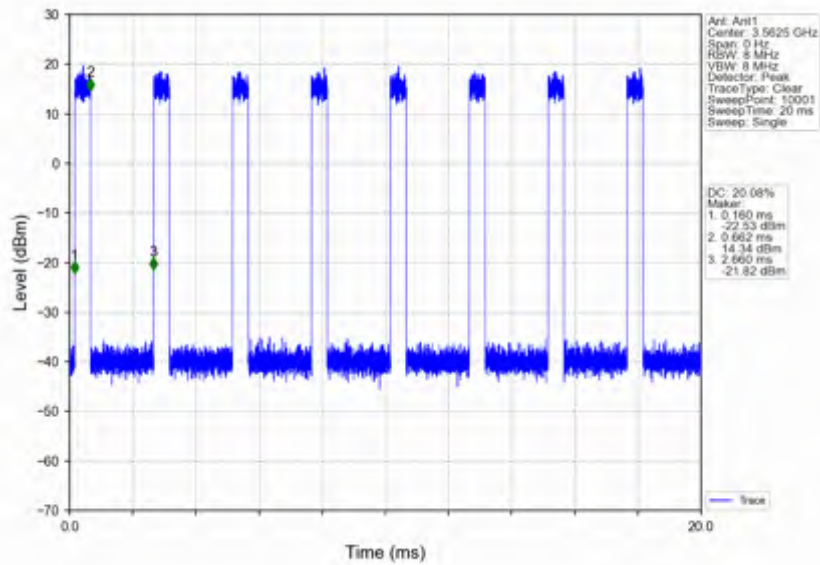


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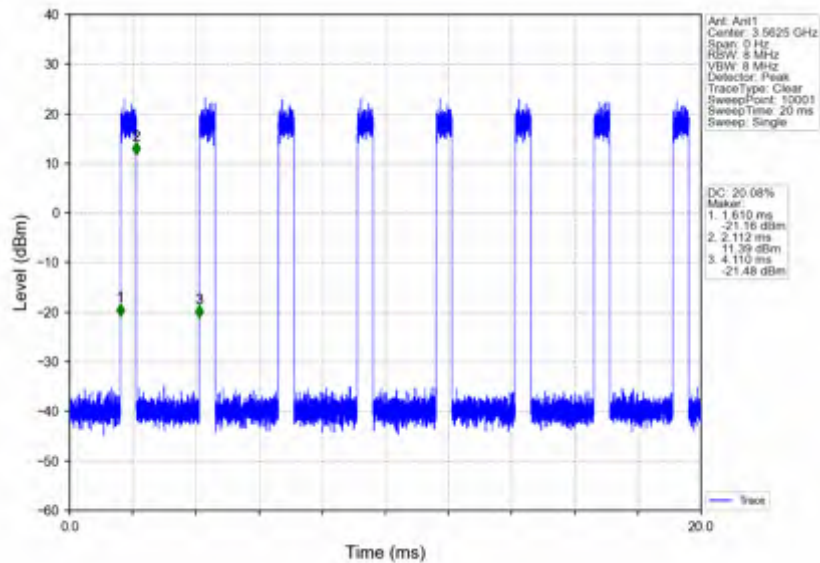
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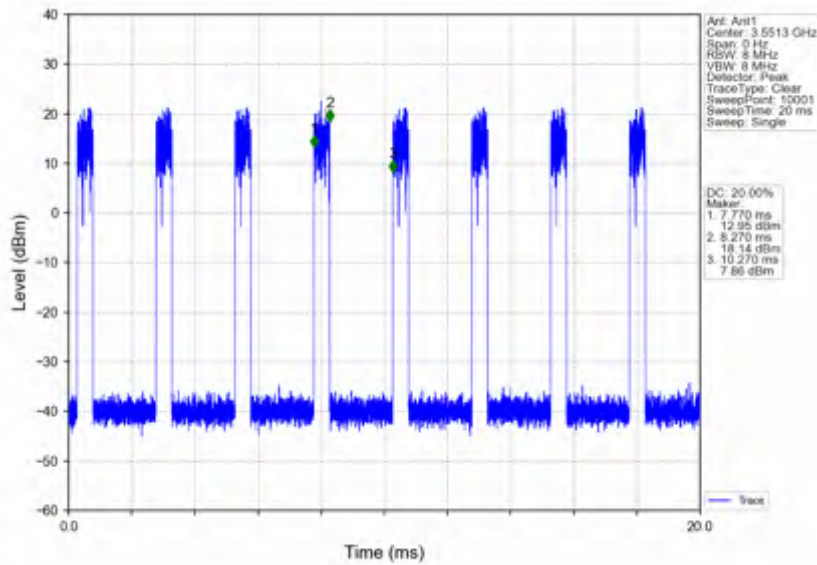


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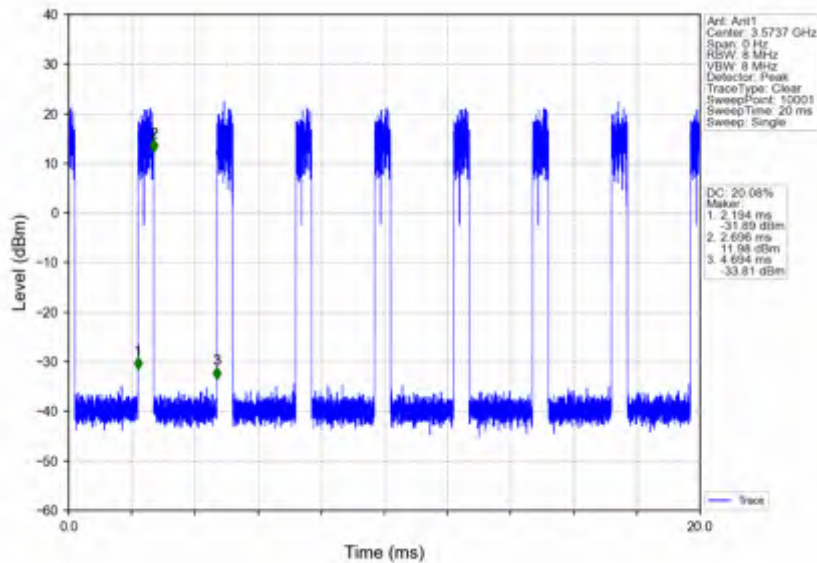
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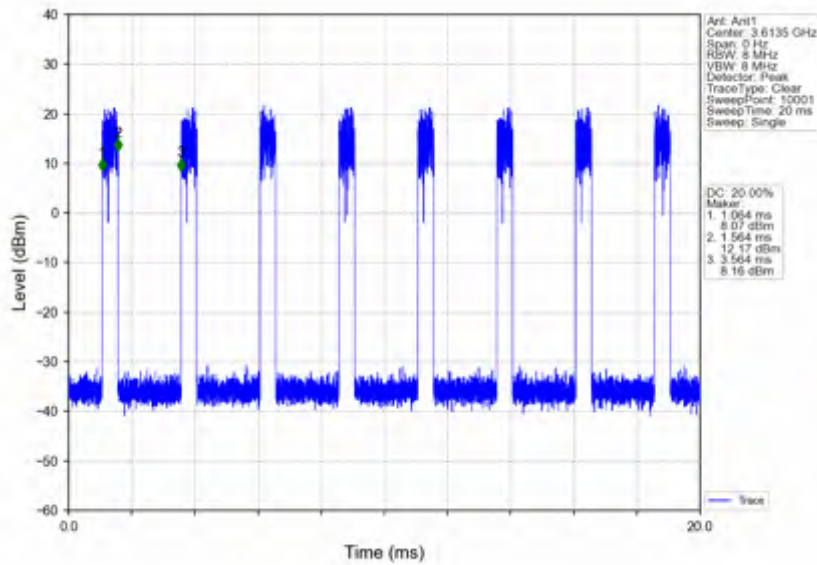
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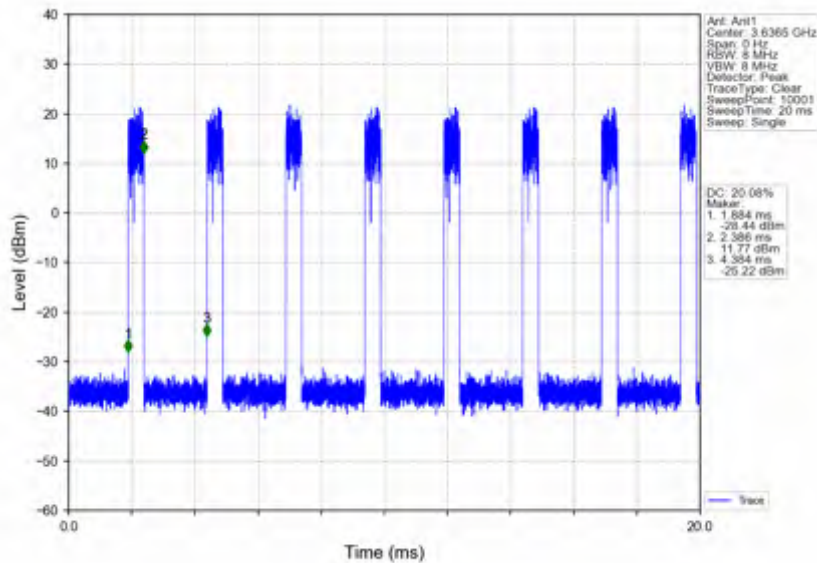
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_3624.99MHz_Edge_1RB_Left



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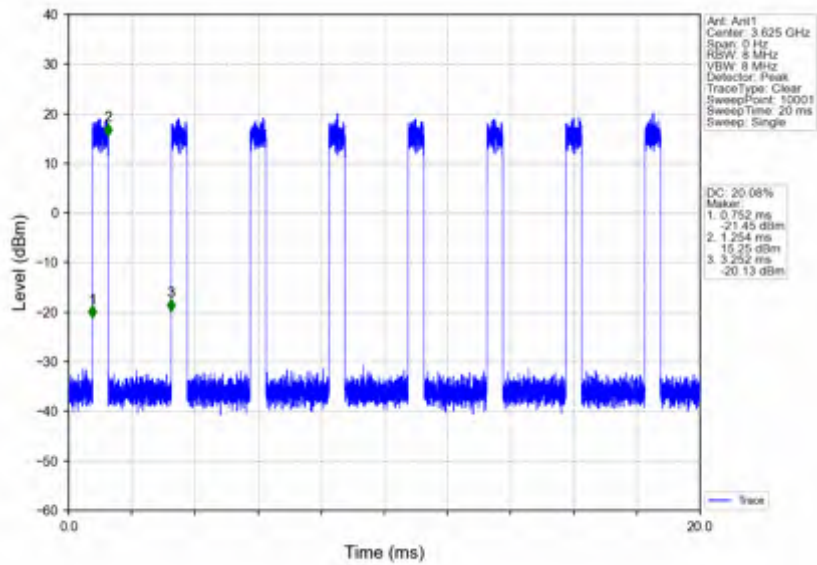


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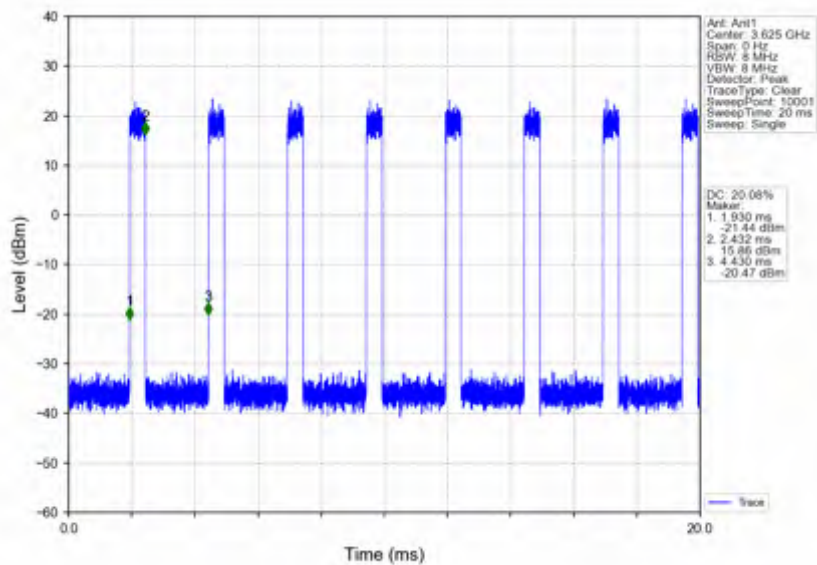
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



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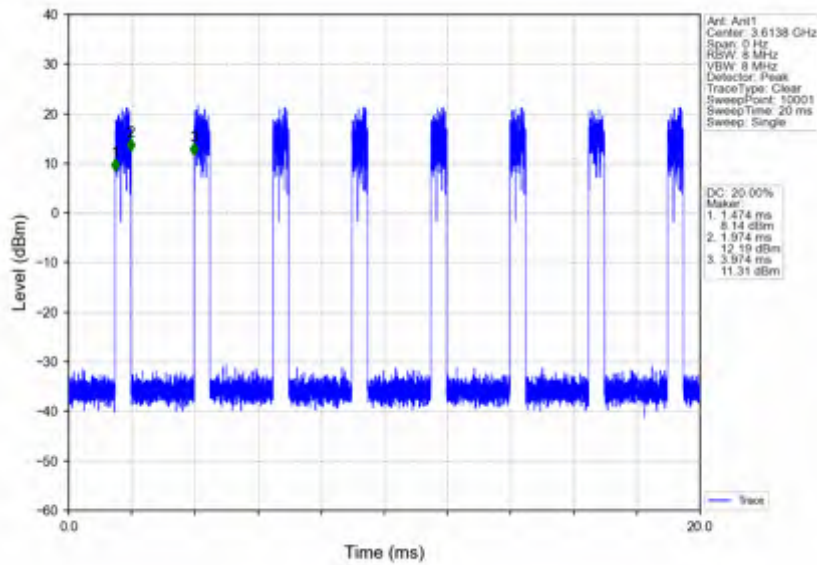


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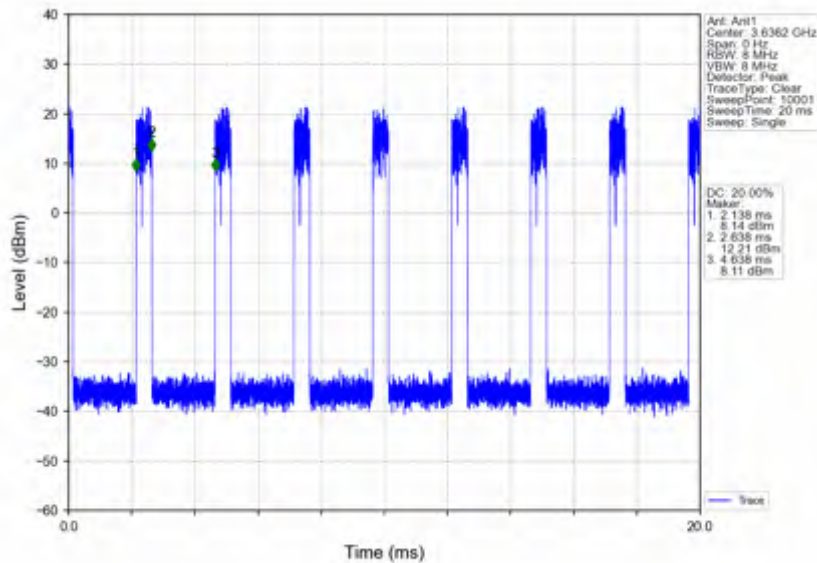
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_3624.99MHz_Inner_1RB_Left



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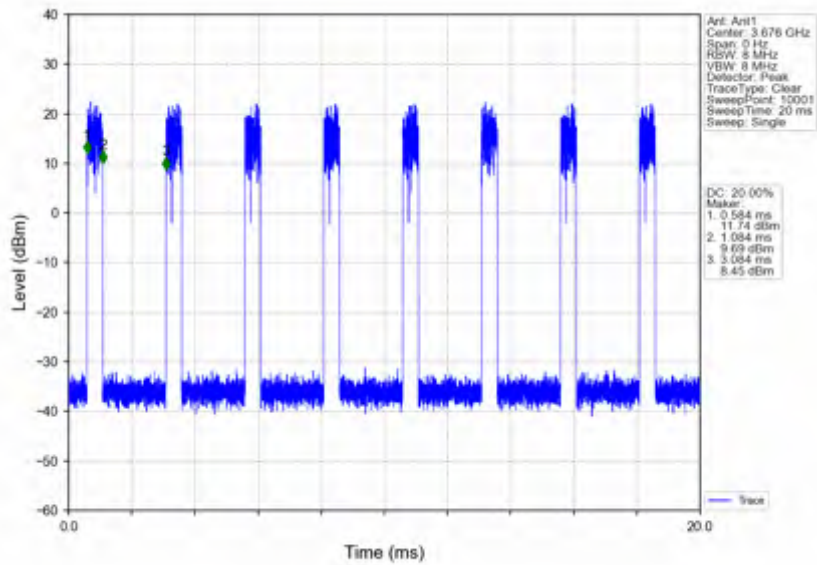


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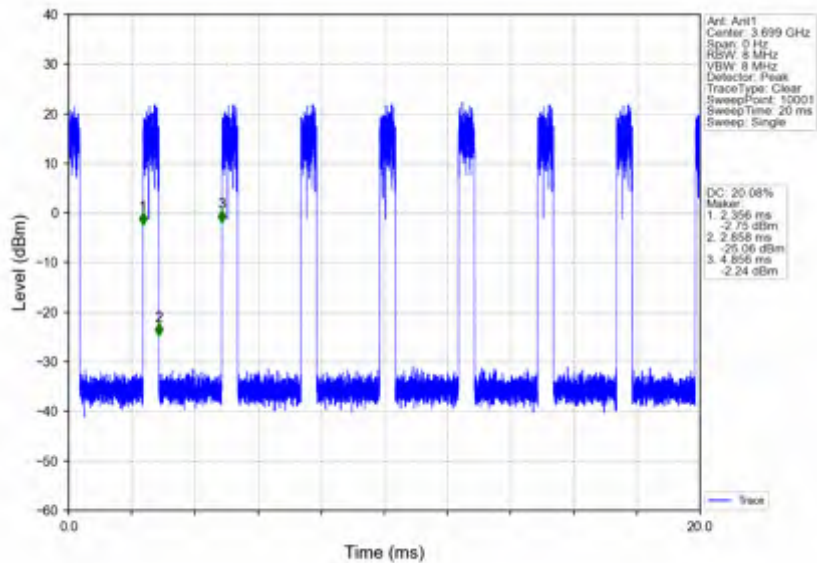
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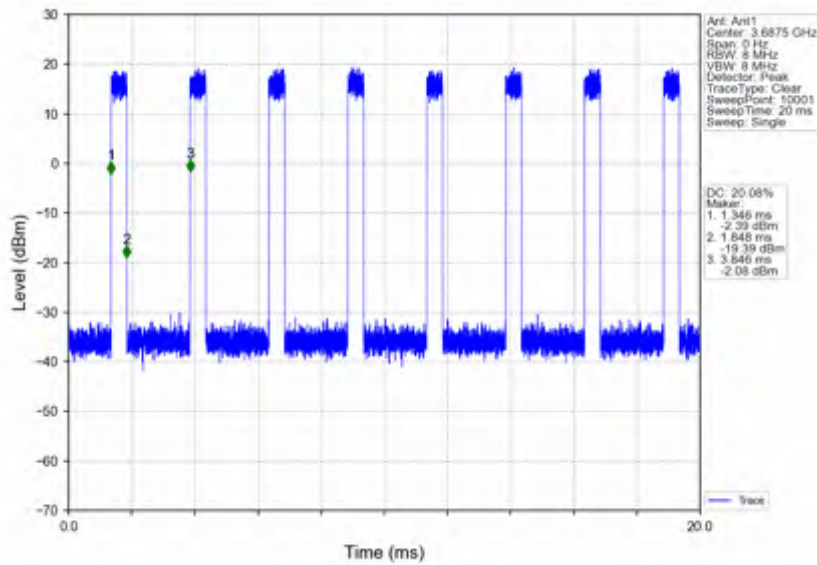
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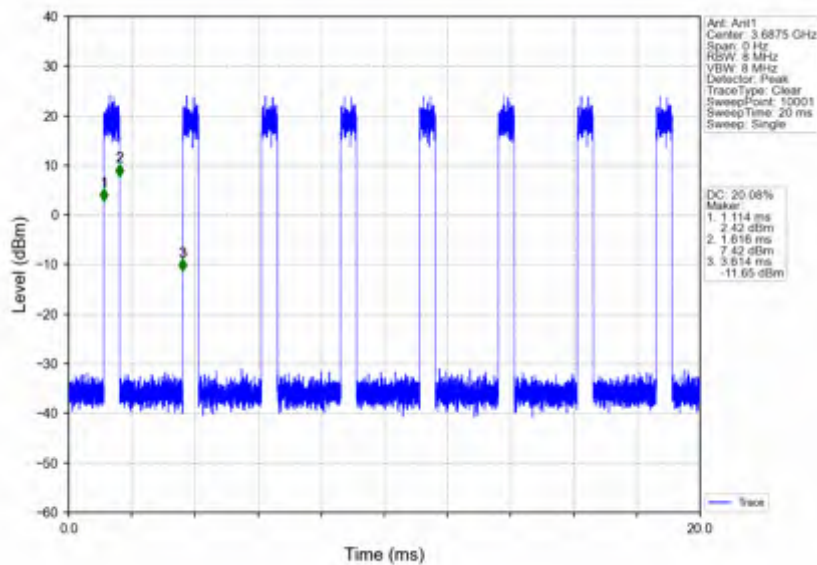
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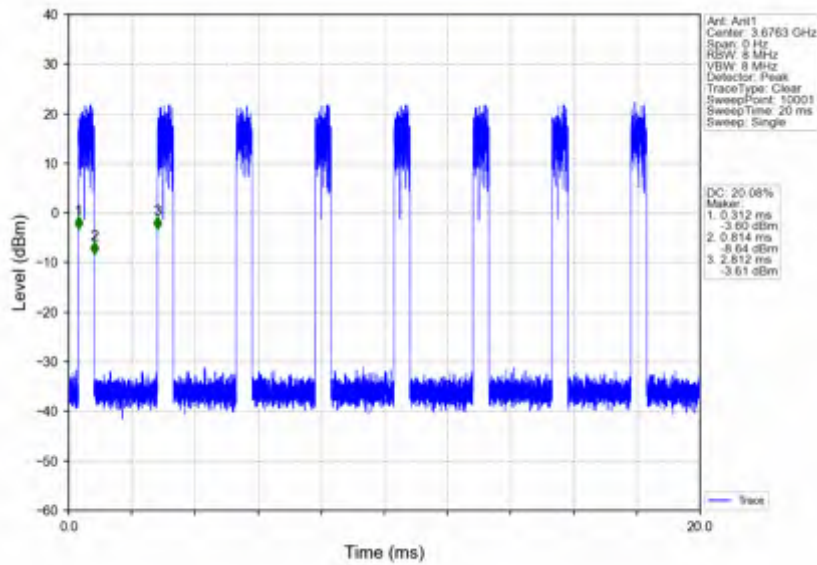


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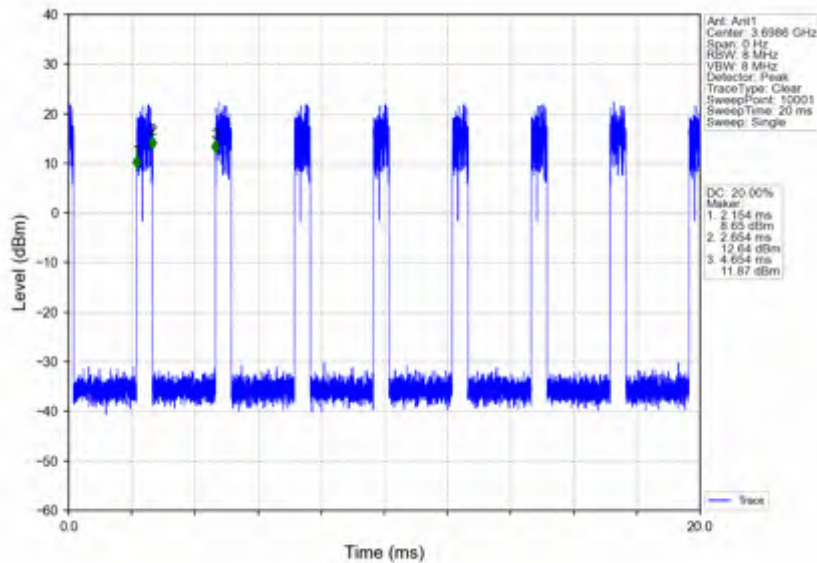
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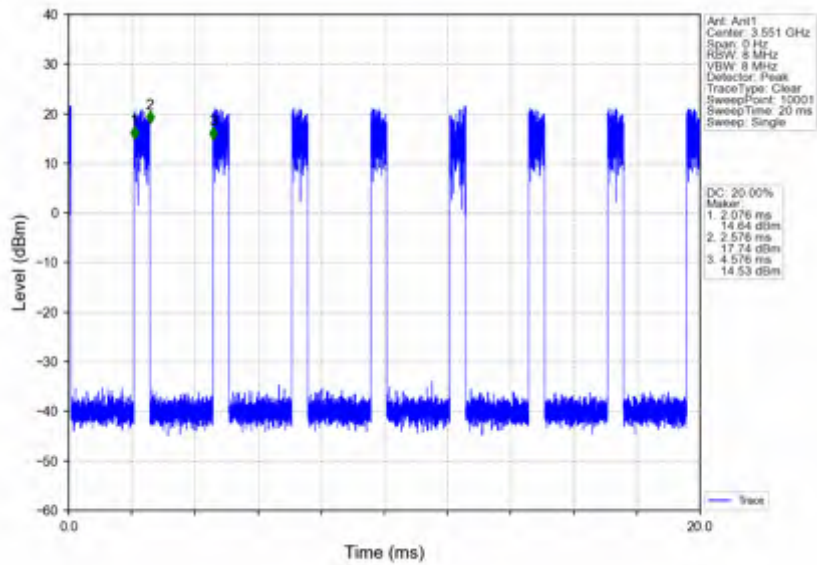


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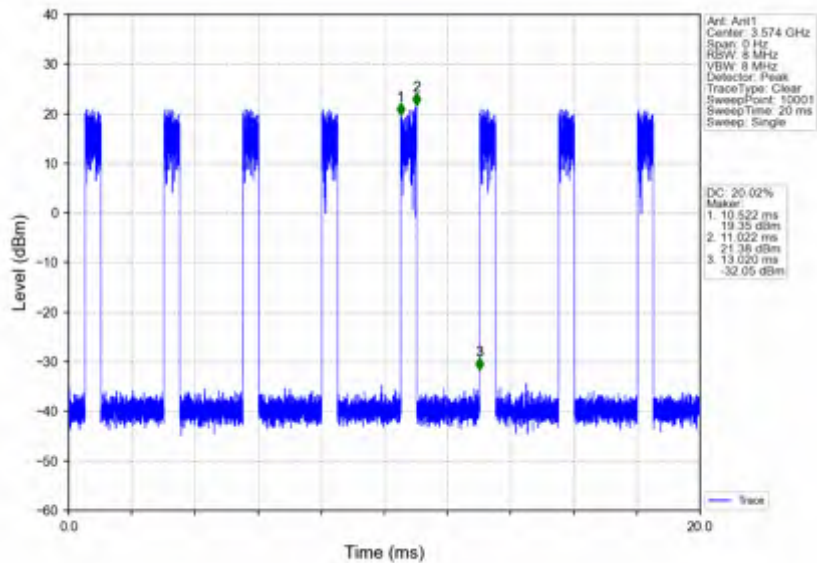
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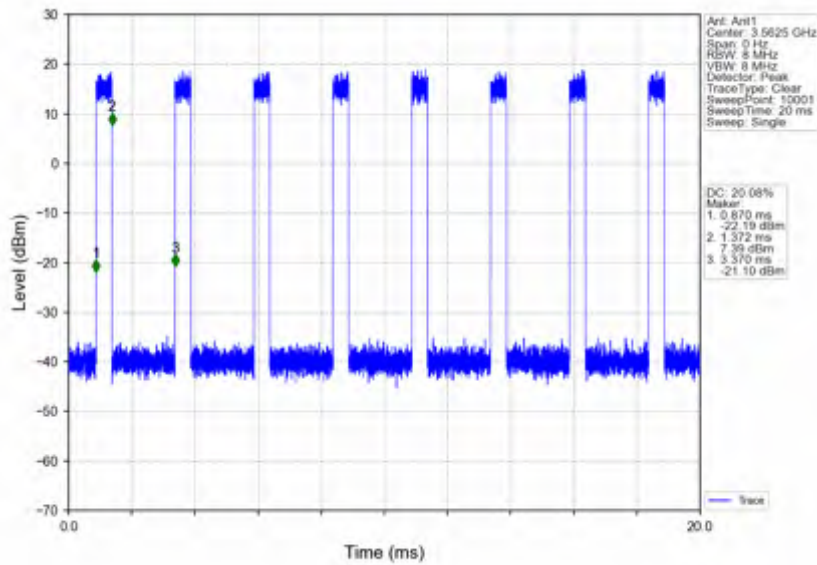
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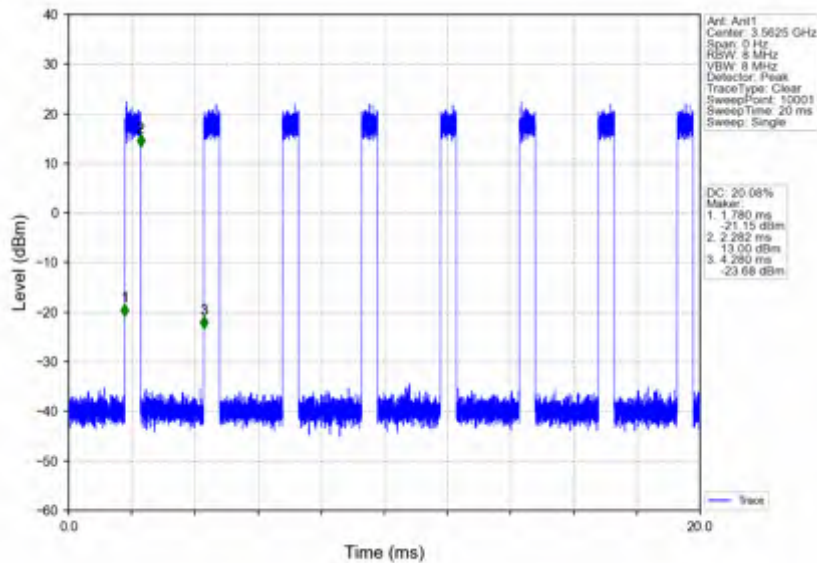
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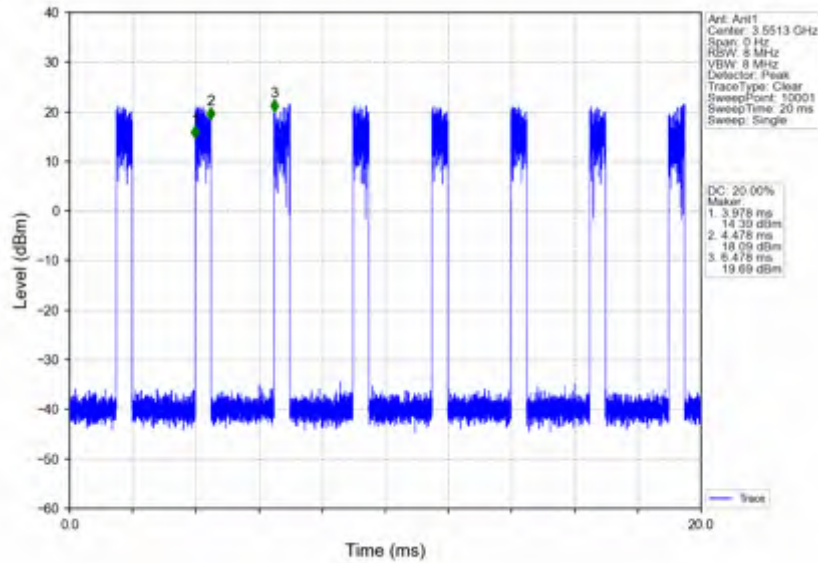


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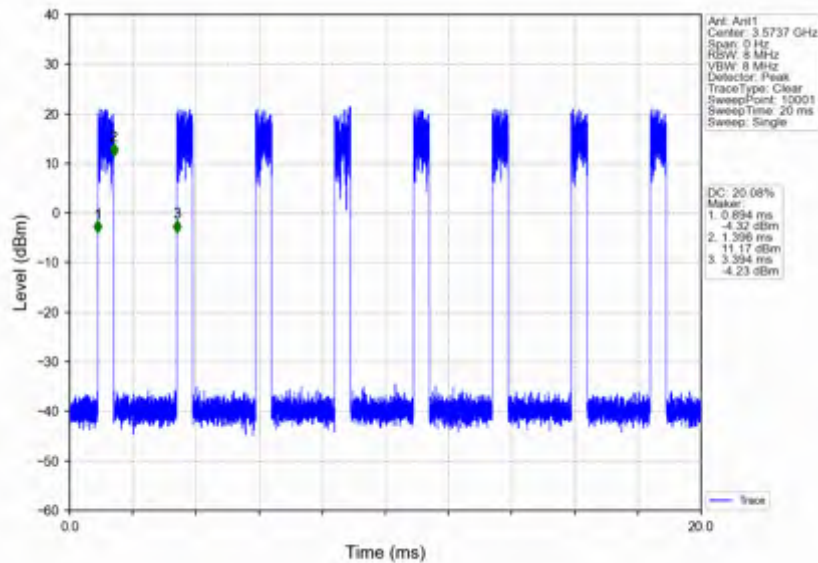
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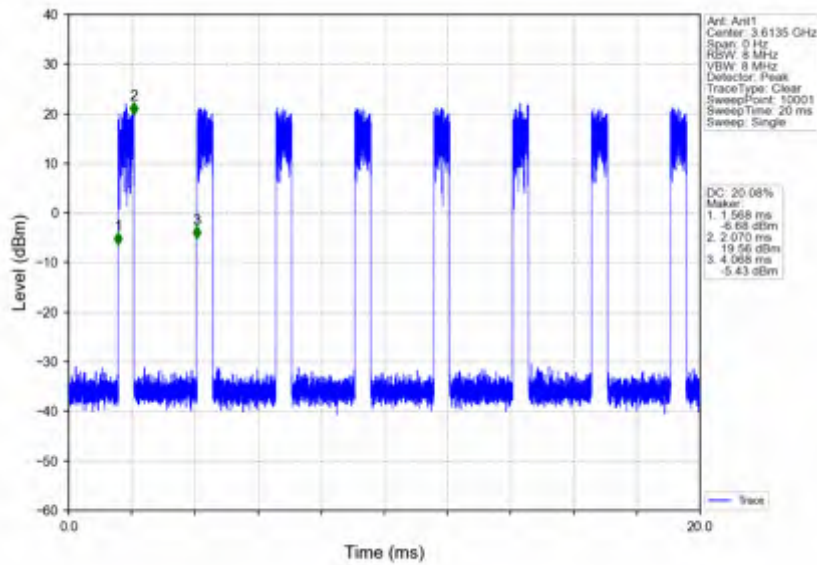


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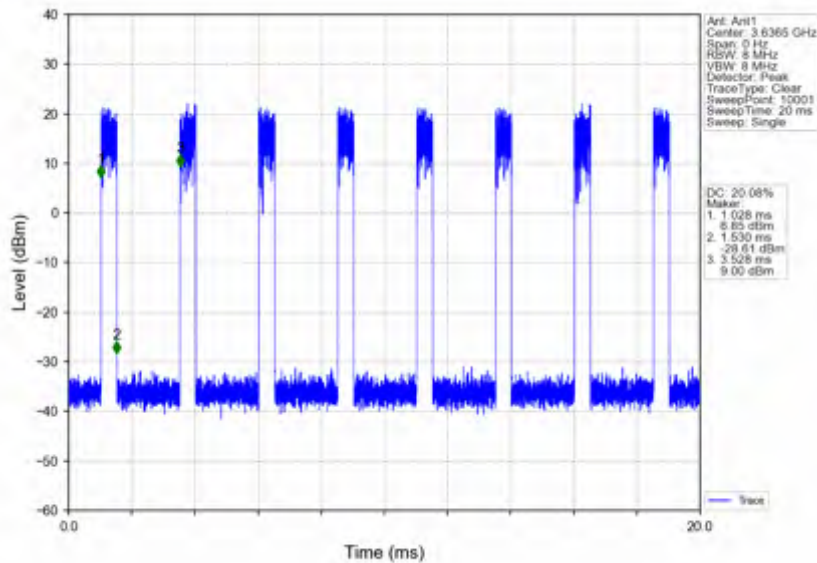
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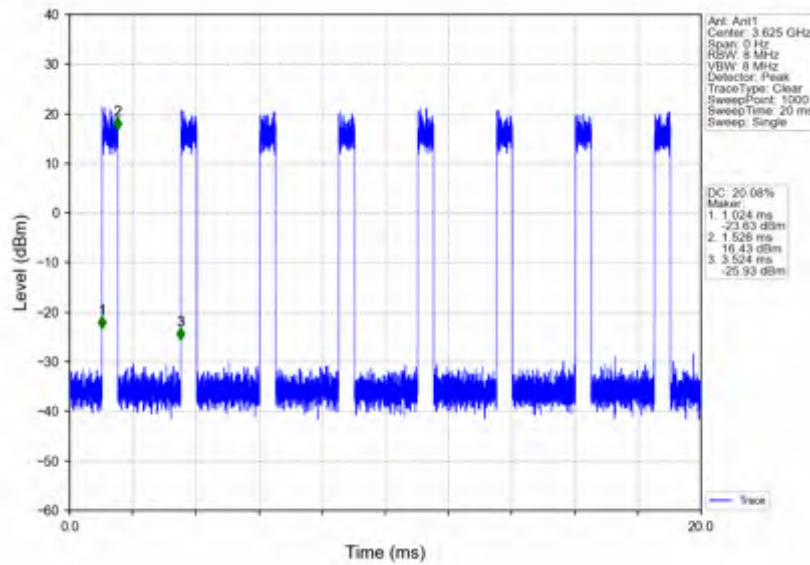


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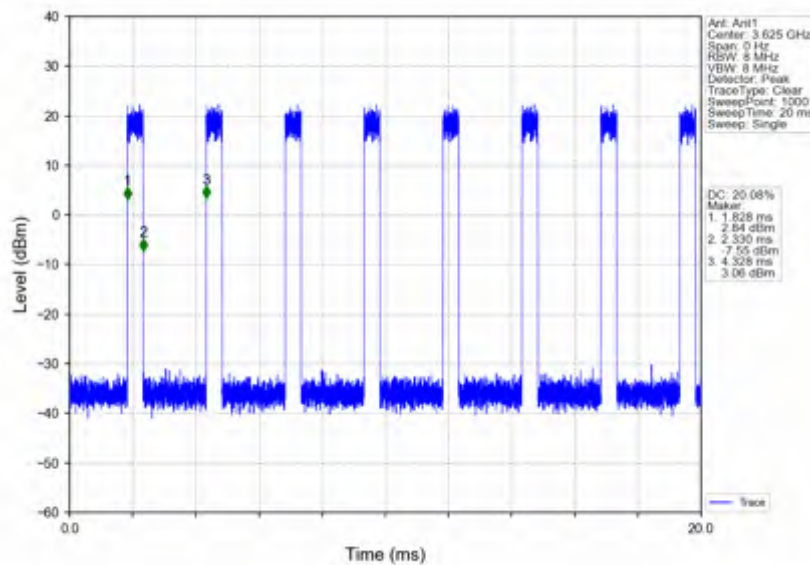
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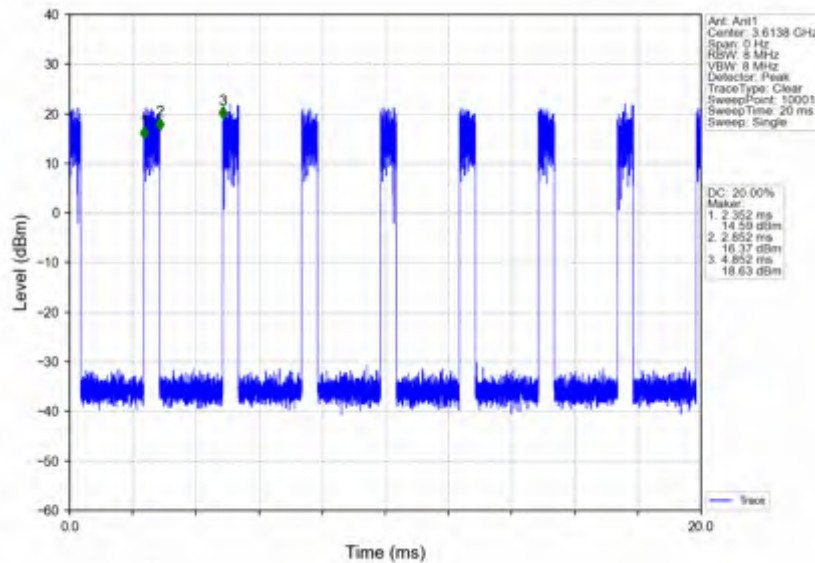


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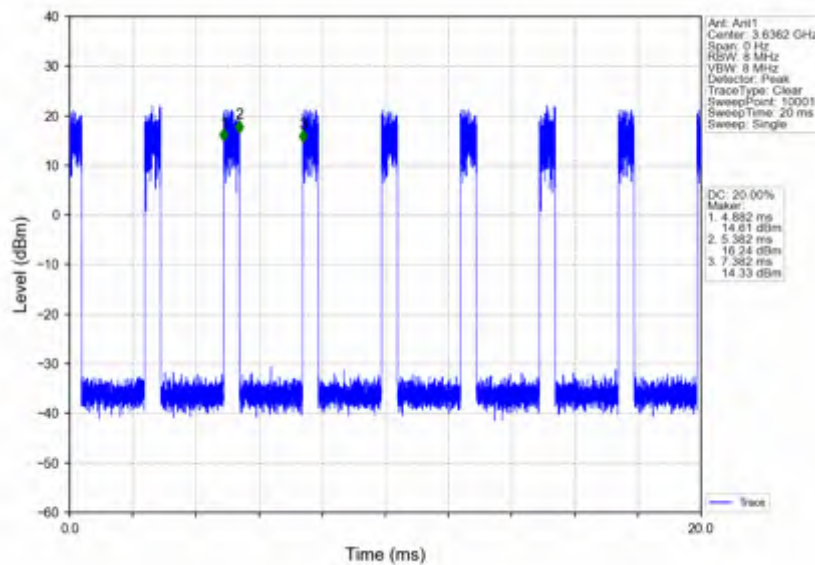
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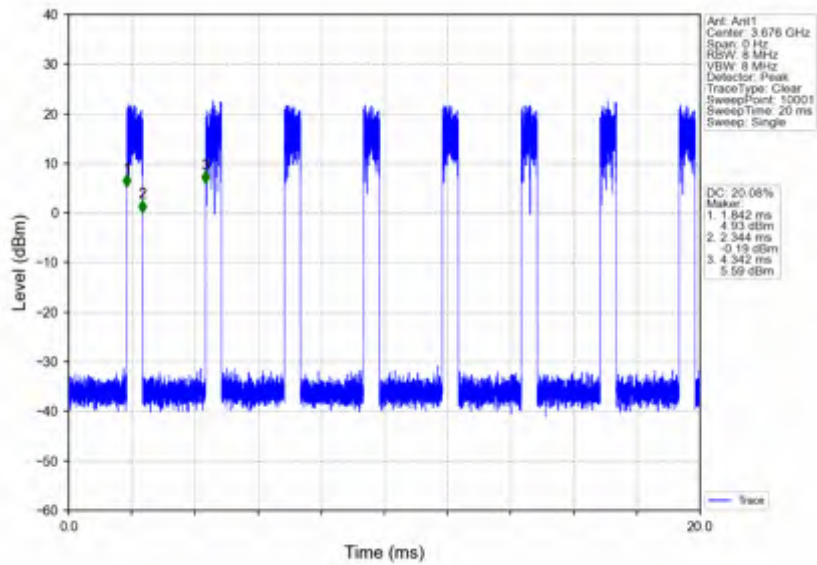


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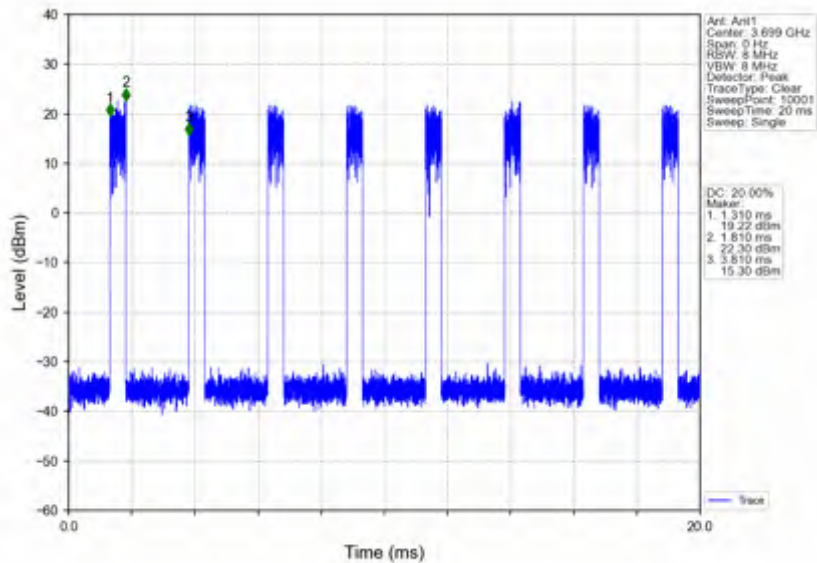
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n78d_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_3687.48MHz_Edge_1RB_Left



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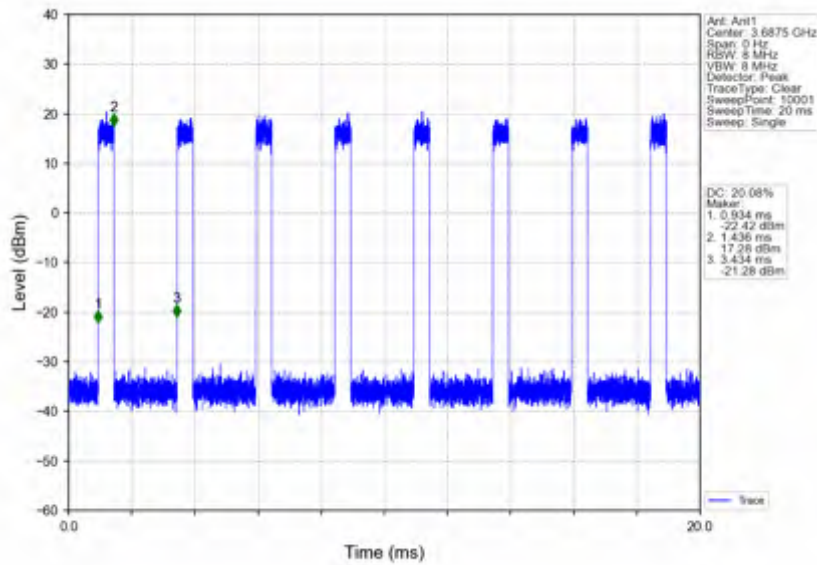


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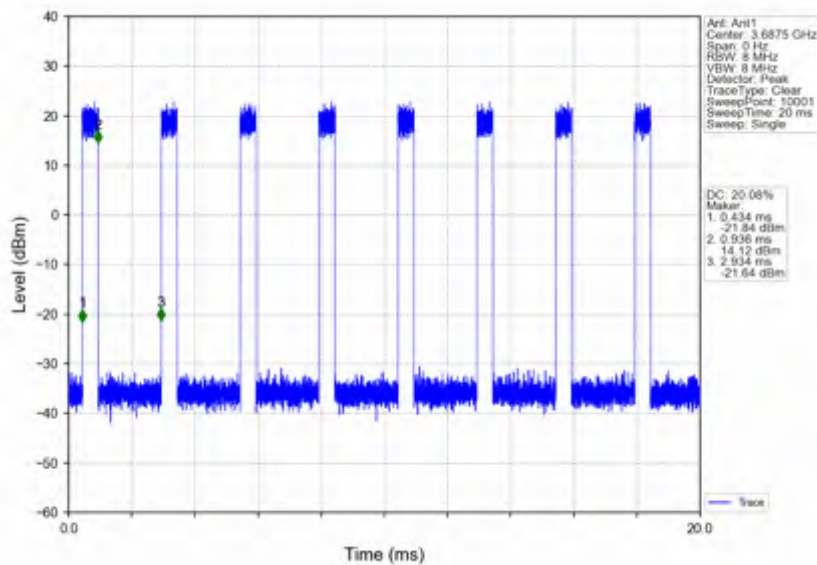
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n78d_30kHz_SISO_NTV_25MHz_CP-OFDM 64 QAM_3687.48MHz_Outer_Full



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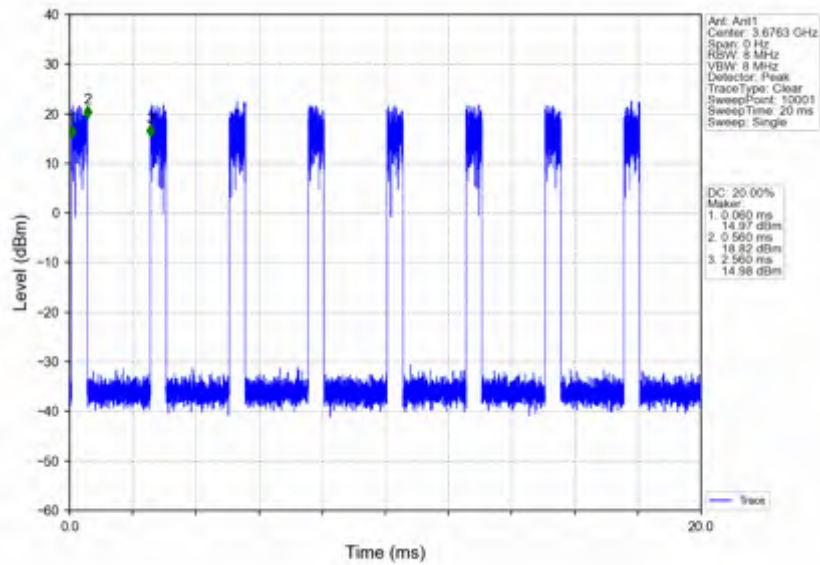
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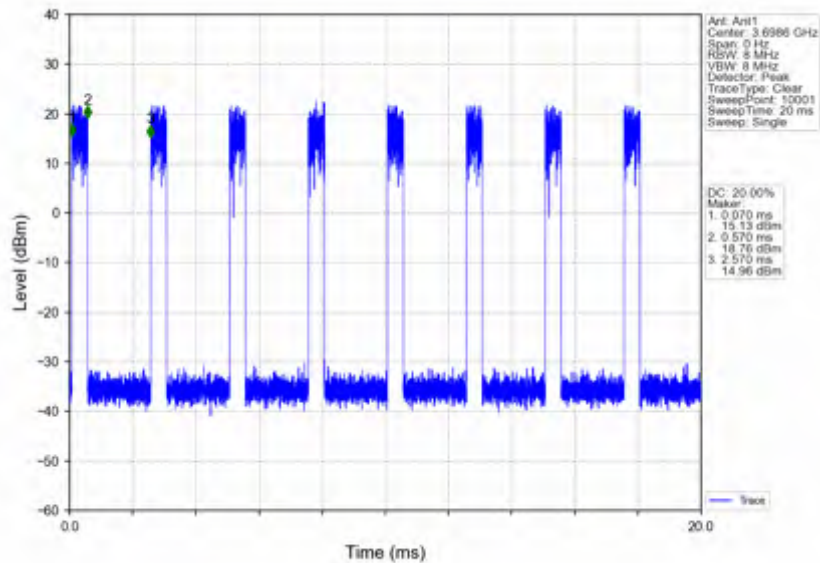
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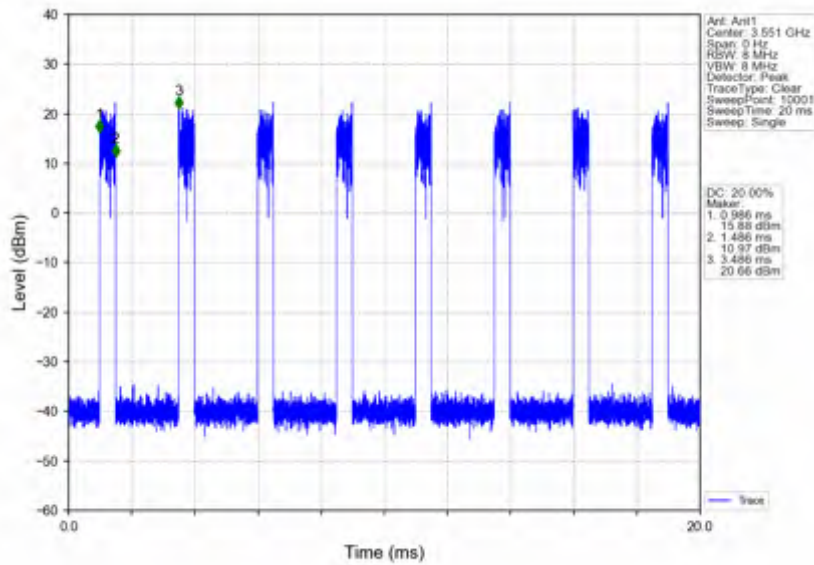


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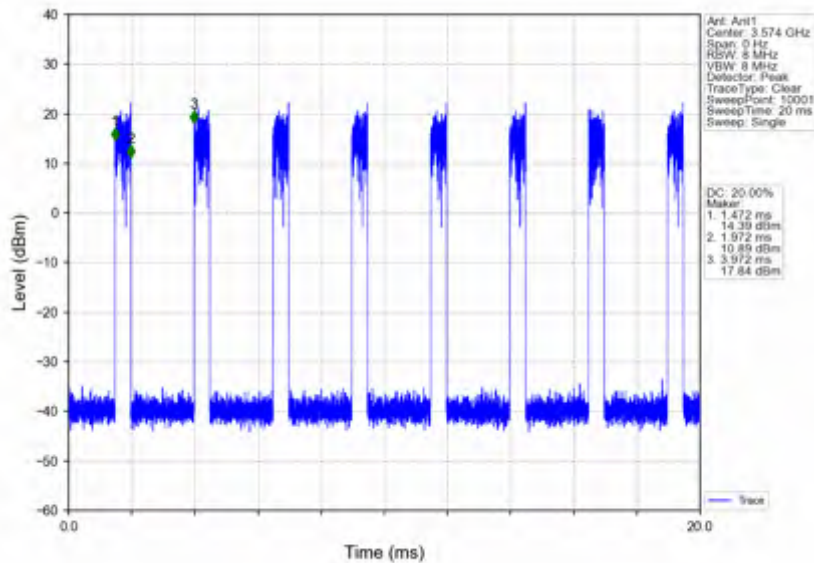
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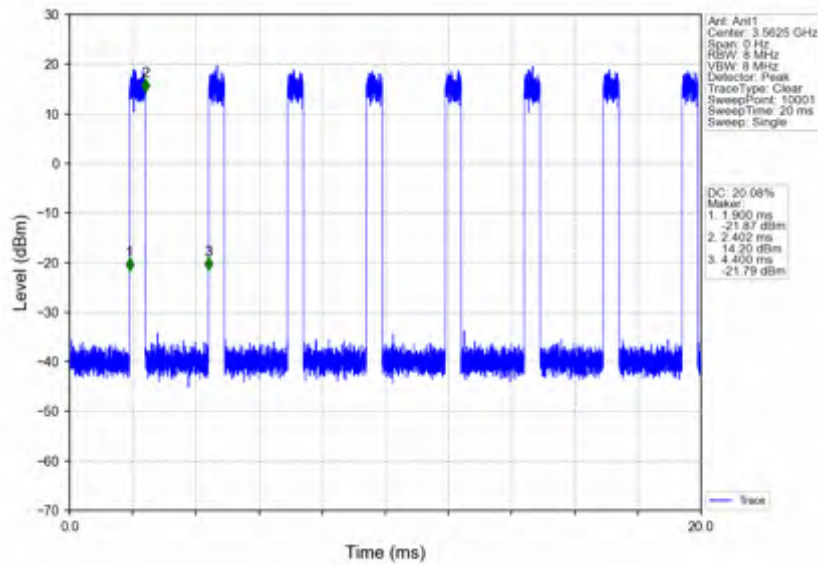
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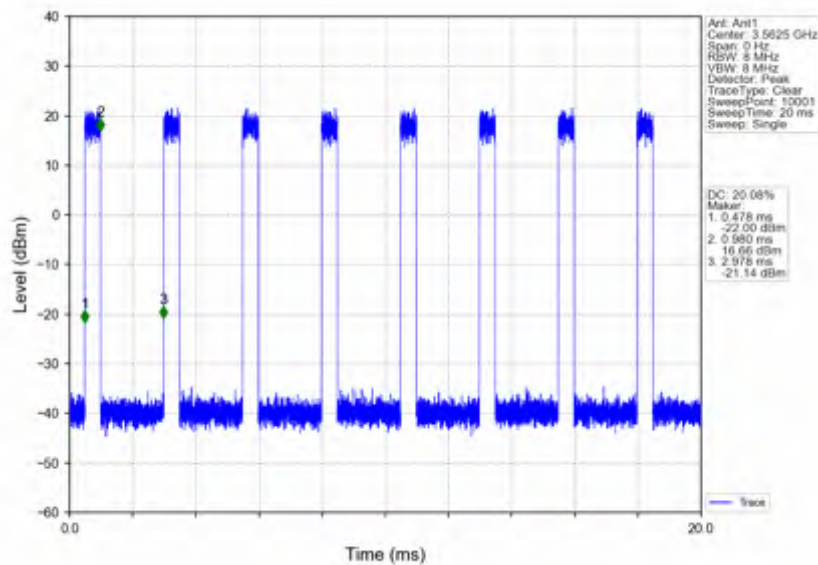
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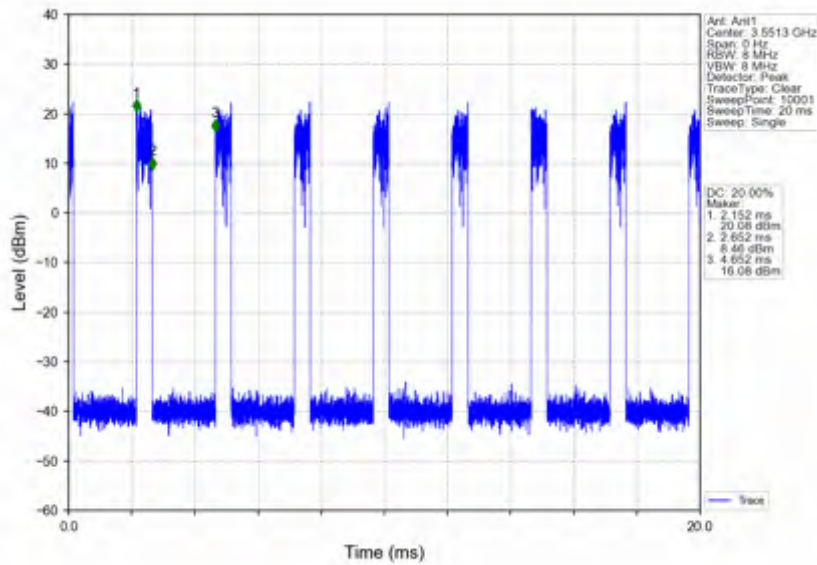
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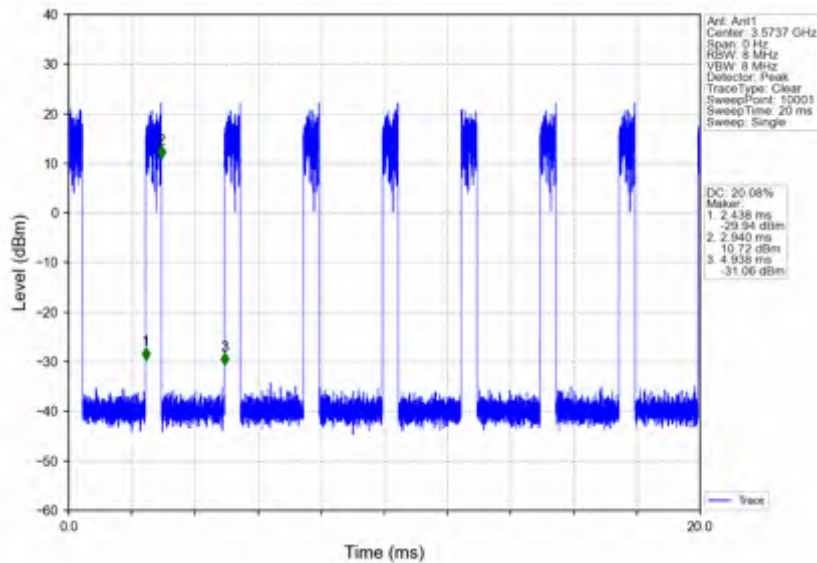
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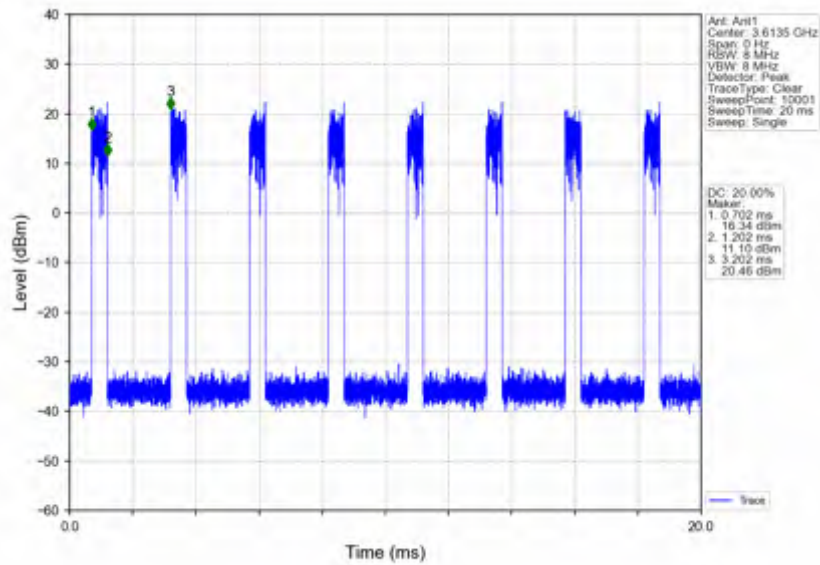
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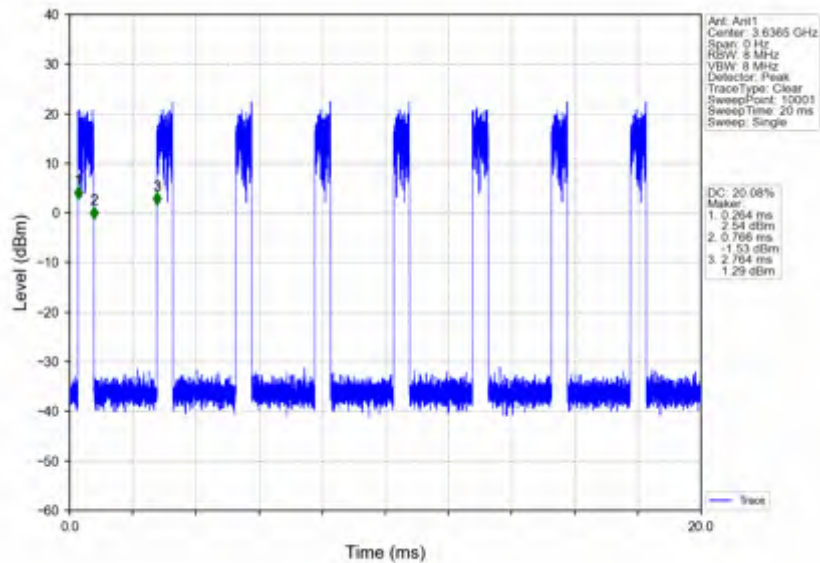
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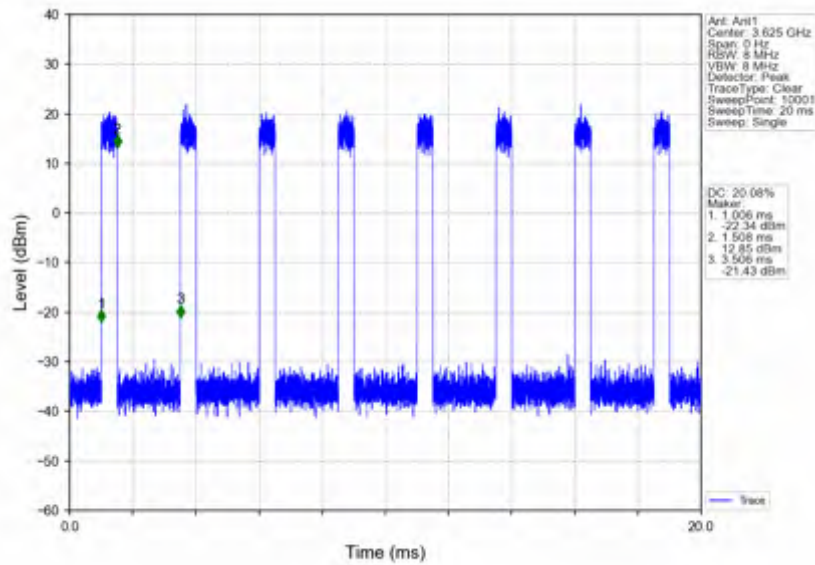
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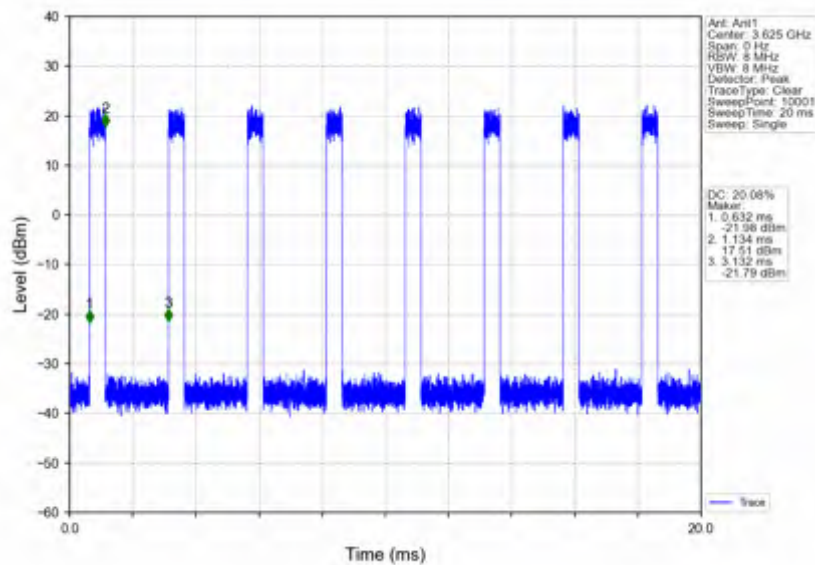
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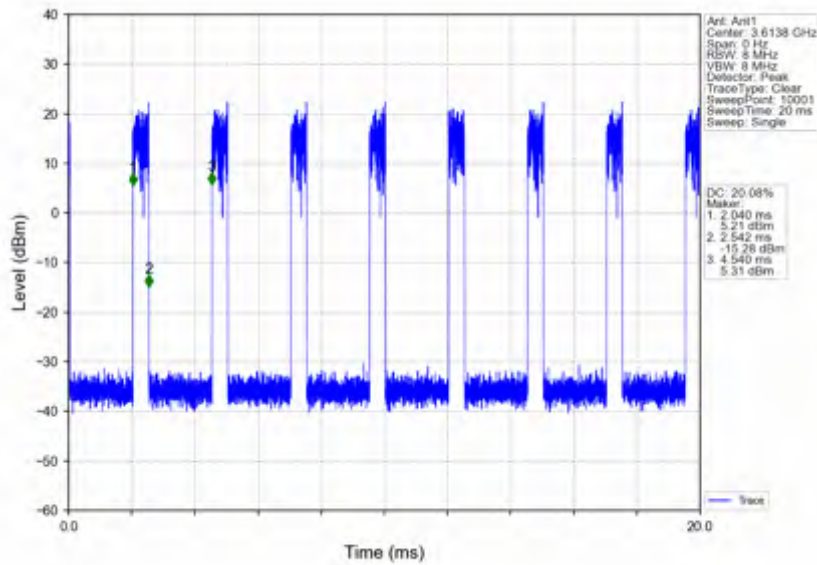
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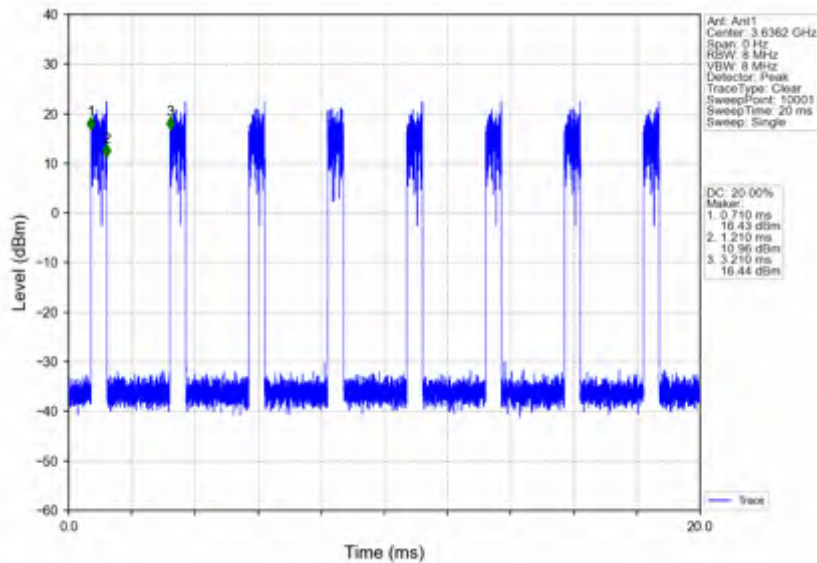
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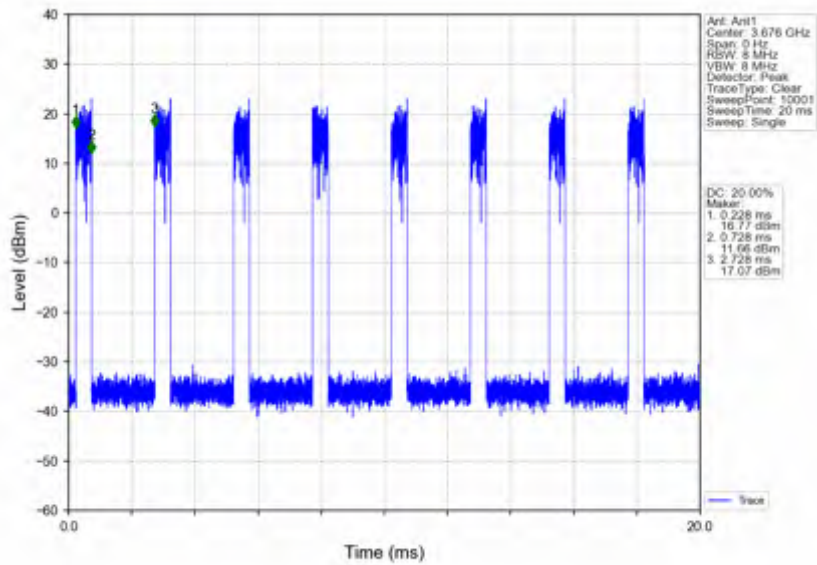
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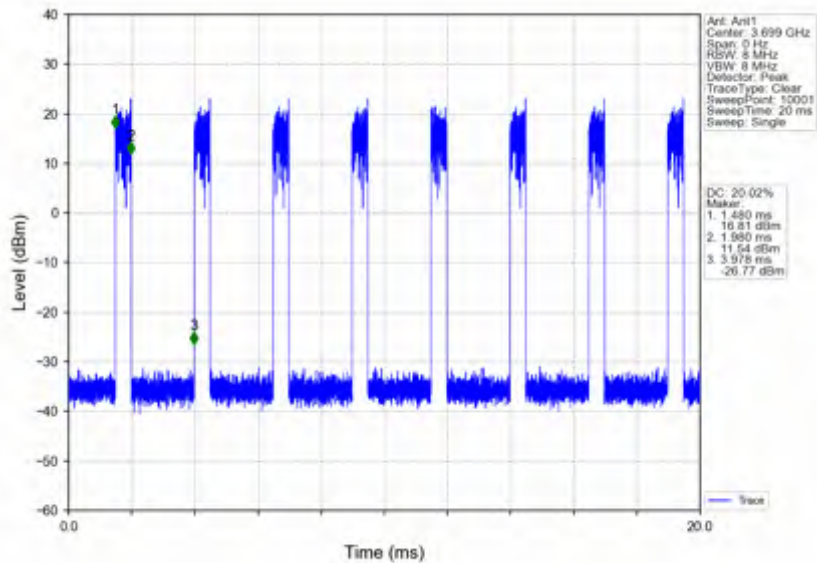
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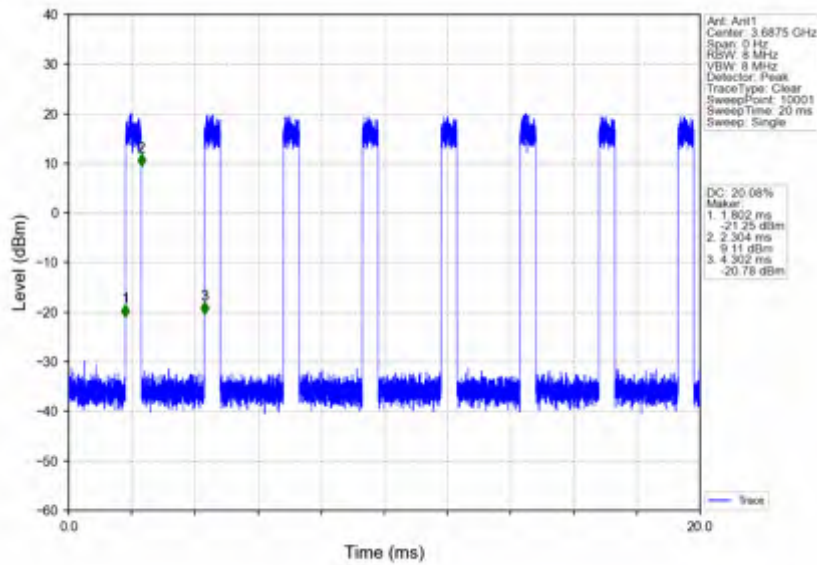


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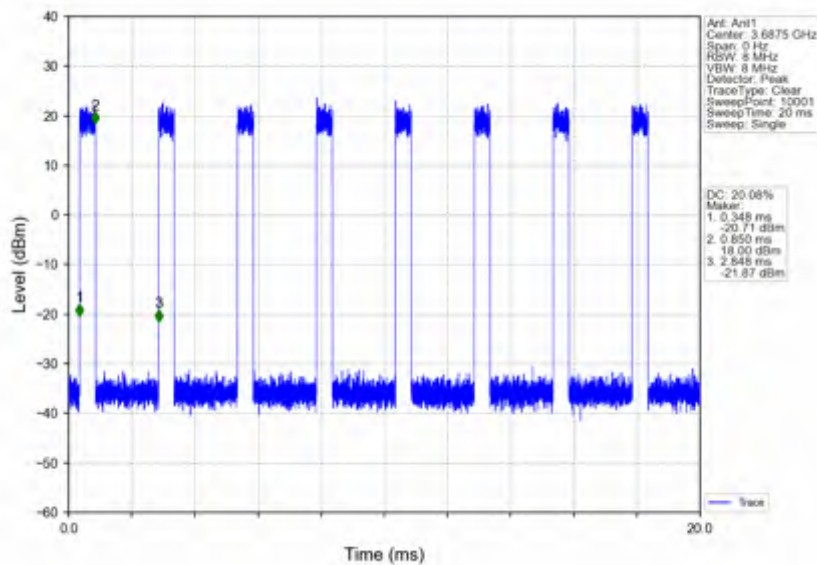
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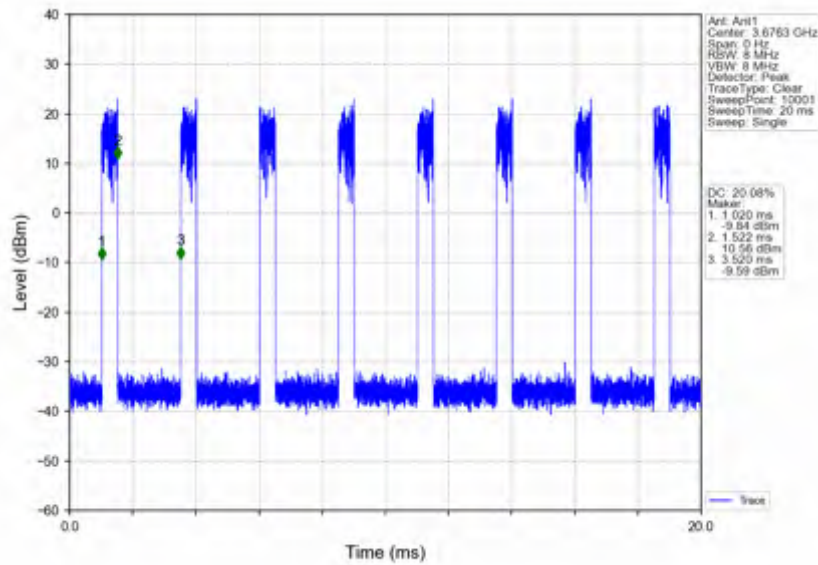


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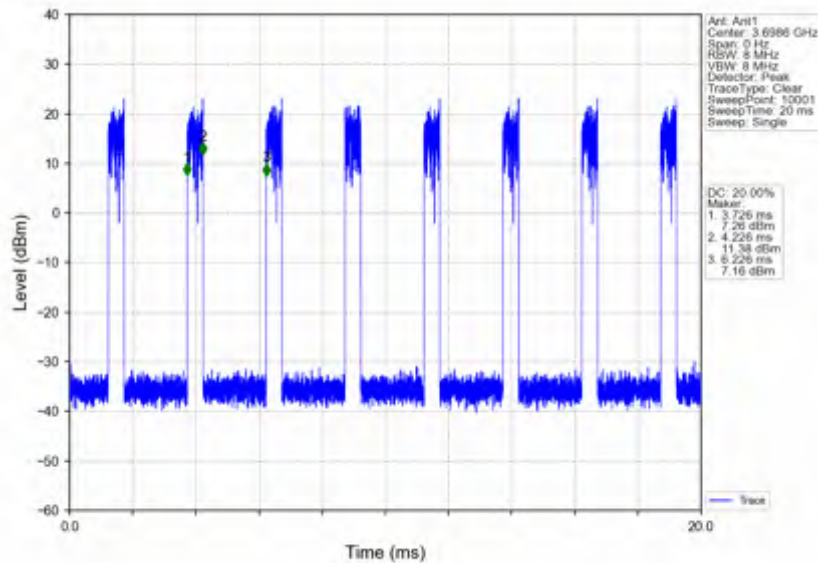
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1.12 30k_SISO_30MHz_NTNV

1.12.1 Test Result

5G NR n78d SCS=30kHz SISO 30MHz 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	3565.02	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
		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
	3624.99	Edge_1RB_Left	0.500	2.498	20.02	6.99	0.06
		Edge_1RB_Right	0.508	2.500	20.32	6.92	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
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.08
		Inner_1RB_Right	0.506	2.500	20.24	6.94	0.00
	3684.99	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	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
DFT-s-OFDM QPSK	3565.02	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.06
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.06
		Outer_Full	0.504	2.500	20.16	6.96	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	0.06
		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	0.08
		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	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08
	3684.99	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	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
DFT-s-OFDM 16 QAM	3565.02	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.06
		Outer_Full	0.502	2.498	20.10	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	0.06
	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



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		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		
	3684.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
		Outer_Full	0.502	2.500	20.08	6.97	0.00		
			0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
		DFT-s-OFDM 64 QAM	3565.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06
				Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08
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	0.14		
Inner_1RB_Right	0.500			2.500	20.00	6.99	0.06		
3624.99	Edge_1RB_Left		0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
	Outer_Full		0.502	2.500	20.08	6.97	0.00		
			0.502	2.500	20.08	6.97	0.00		
	Inner_1RB_Left		0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
3684.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00			
		0.500	2.500	20.00	6.99	0.06			
	Outer_Full	0.502	2.500	20.08	6.97	0.08			
		0.502	2.500	20.08	6.97	0.06			
	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00			
		0.500	2.500	20.00	6.99	0.00			
DFT-s-OFDM 256 QAM	3565.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06		
		Edge_1RB_Right	0.500	2.500	20.00	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		
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08		
	3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.08		
		Outer_Full	0.502	2.500	20.08	6.97	0.00		
			0.502	2.500	20.08	6.97	0.08		
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
3684.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00			
		0.500	2.500	20.00	6.99	0.06			
	Outer_Full	0.502	2.500	20.08	6.97	0.00			
		0.502	2.500	20.08	6.97	0.00			
	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00			
		0.502	2.500	20.08	6.97	0.00			
CP-OFDM QPSK	3565.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00		
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.08		
		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	0.06		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06		
	3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		



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		Outer_Full	0.504	2.500	20.16	6.96	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	
		3684.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06
			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	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
CP-OFDM 16 QAM	3565.02	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06	
		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	0.500	2.500	20.00	6.99	0.00	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.06	
	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	0.08	
		Inner_Full	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.08	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08	
	3684.99	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	
	CP-OFDM 64 QAM	3565.02	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.08
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08
			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	0.06
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
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	0.08	
		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	
3684.99		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	0.502	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	0.06	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00	
CP-OFDM 256 QAM		3565.02	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	0.504	2.500	20.16	6.96	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	0.06
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
	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	



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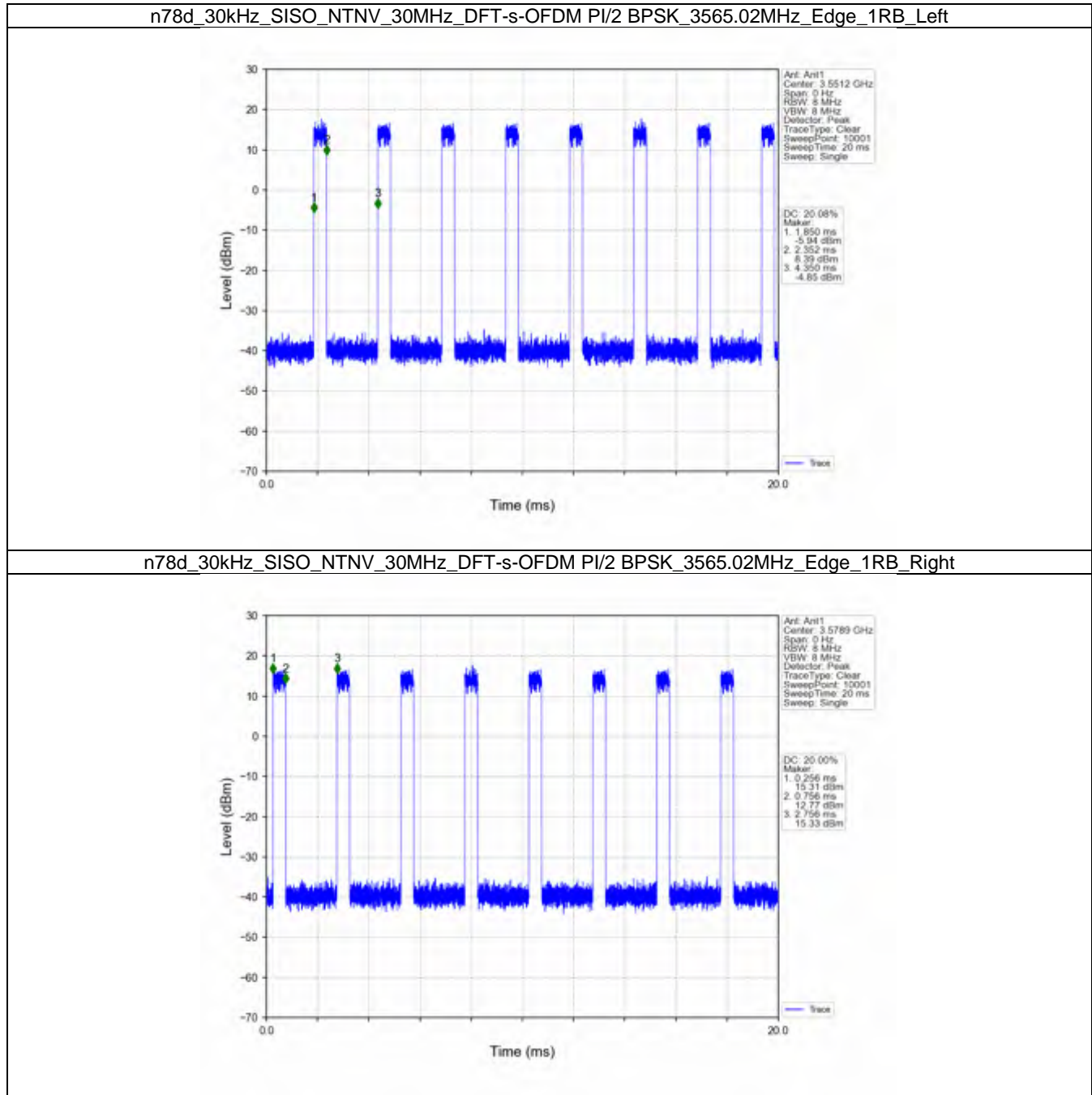
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
	3684.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			0.500	2.500	20.00	6.99	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
			0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			0.500	2.500	20.00	6.99	0.00



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1.12.2 Test Graph

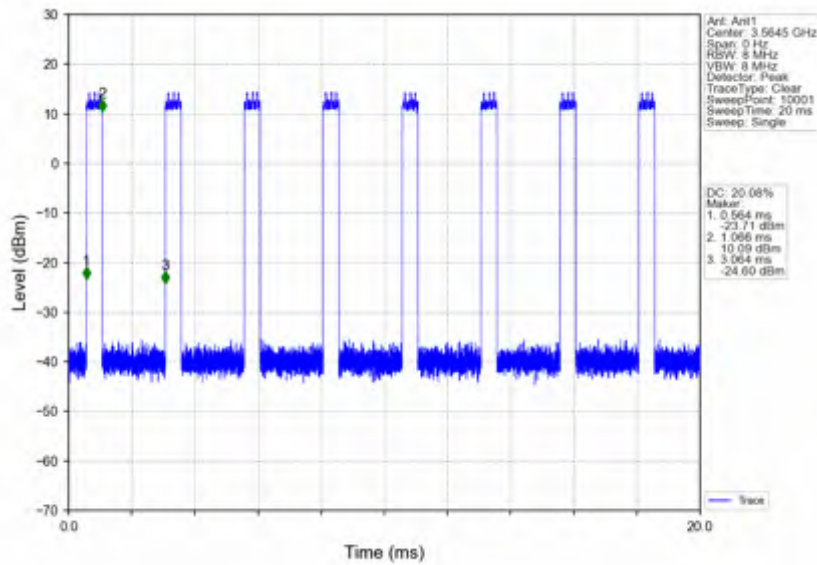


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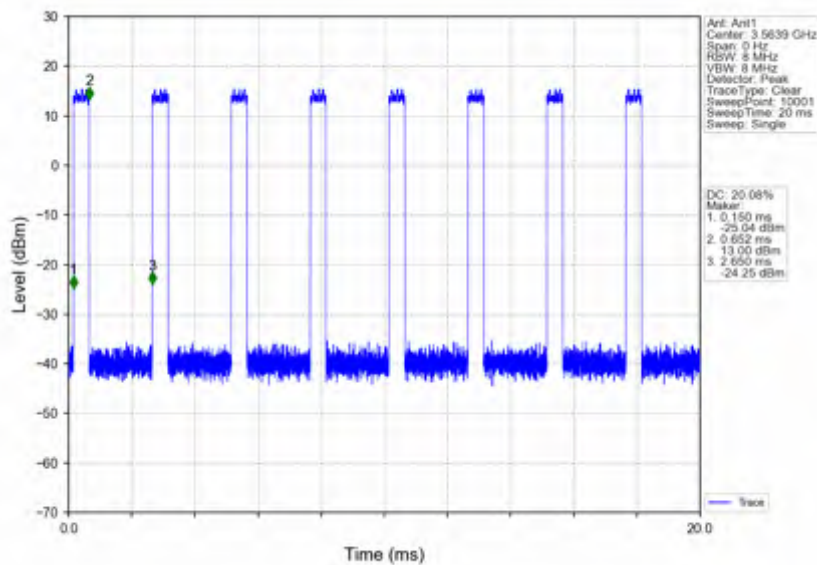
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3565.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3565.02MHz_Inner_Full

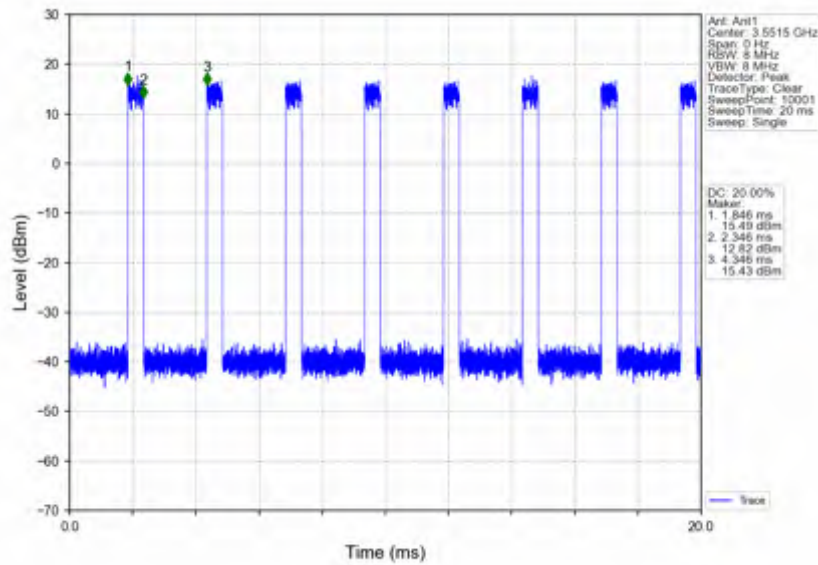


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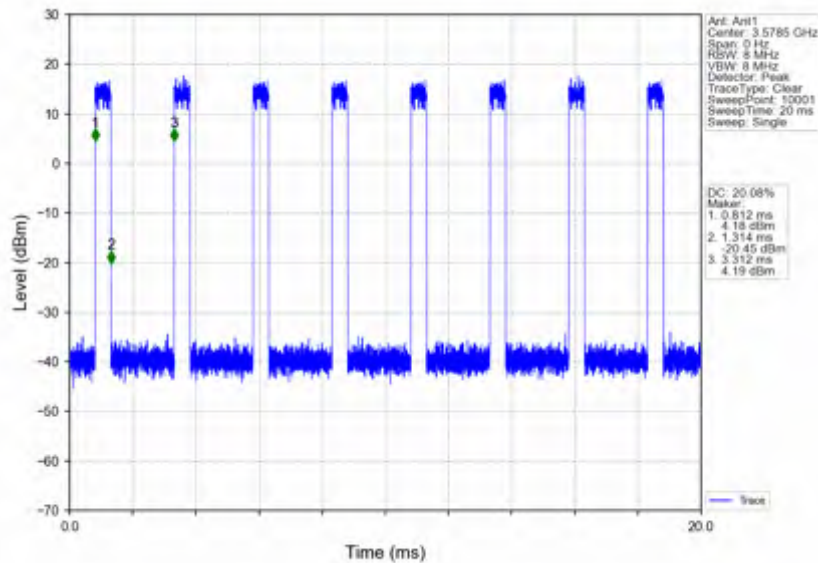
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3565.02MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3565.02MHz_Inner_1RB_Right

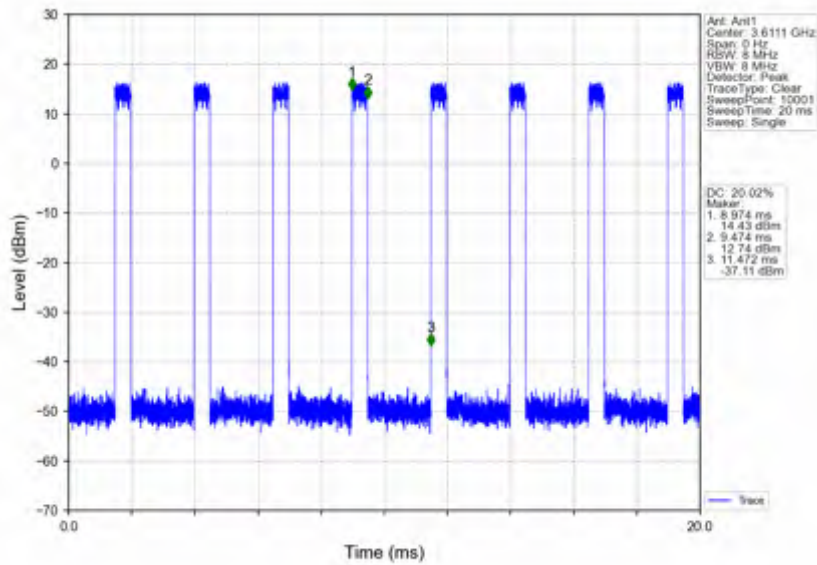


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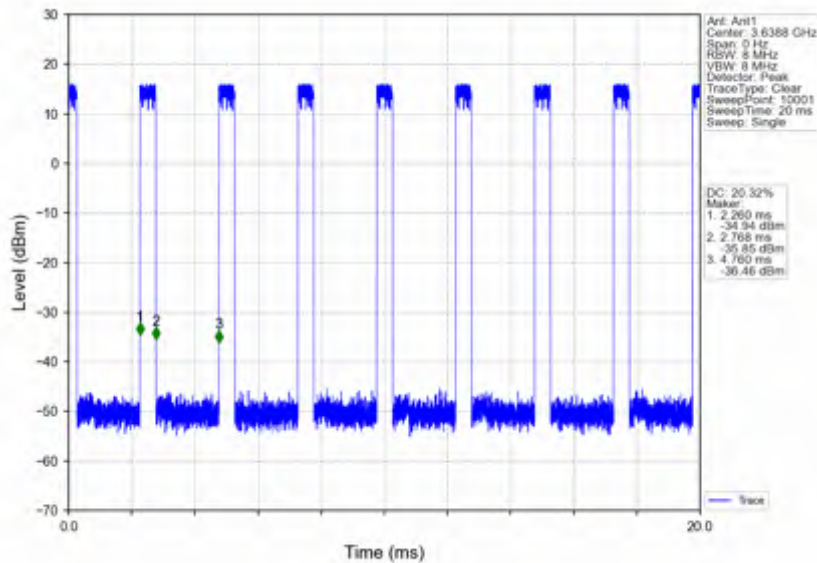
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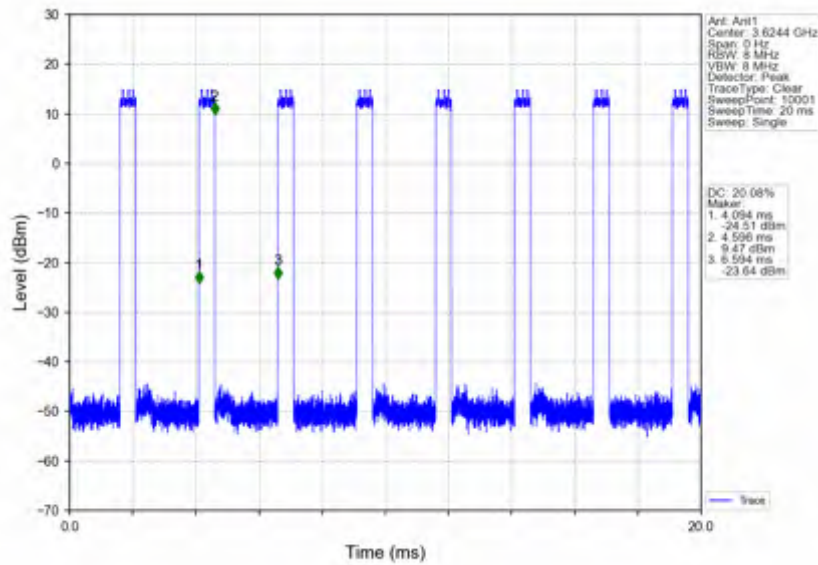
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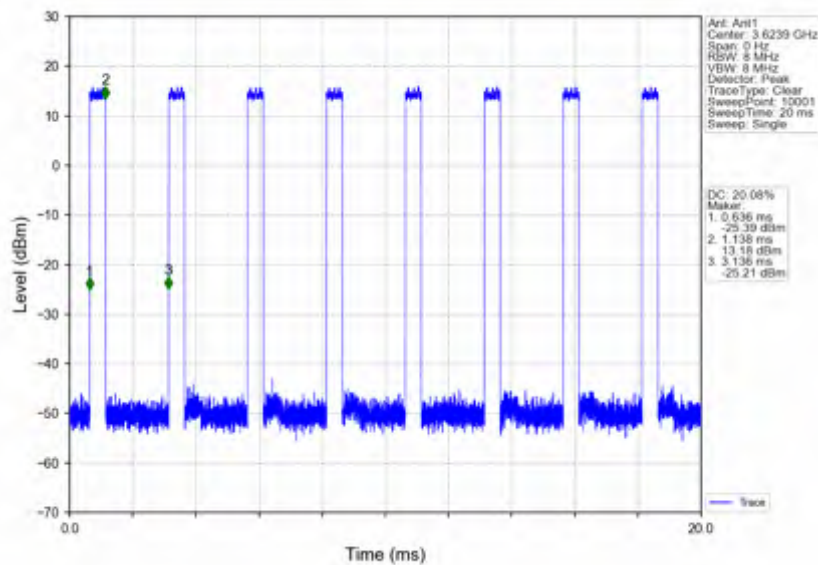
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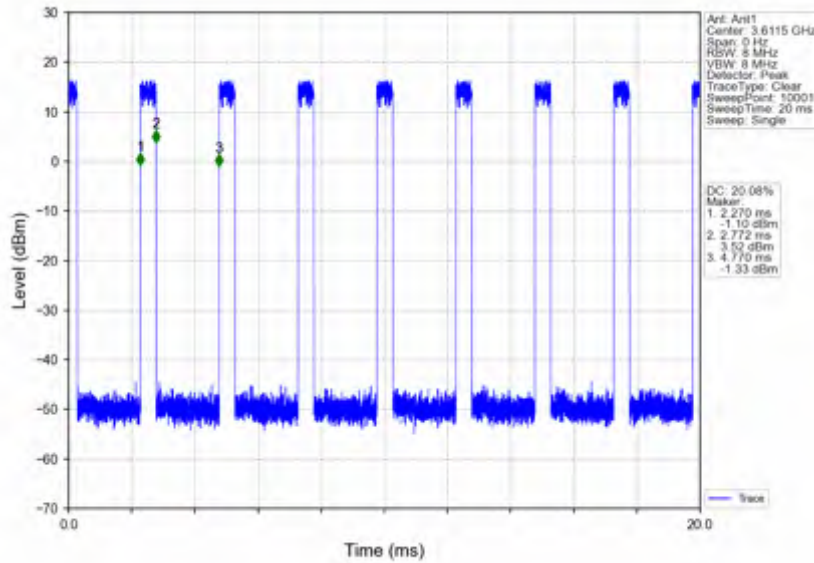
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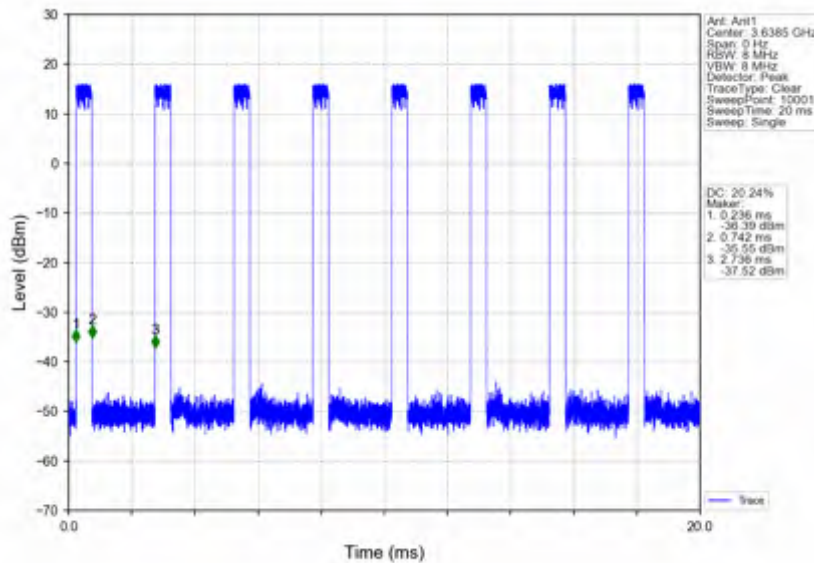
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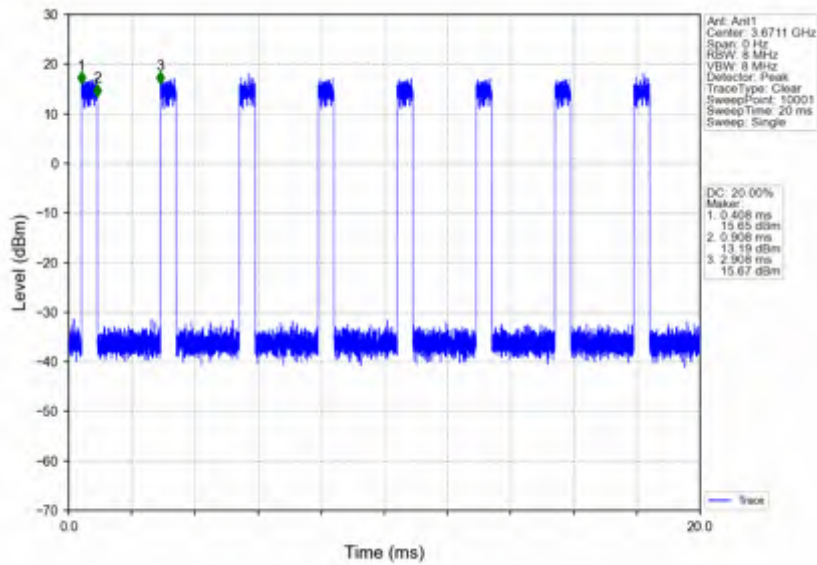


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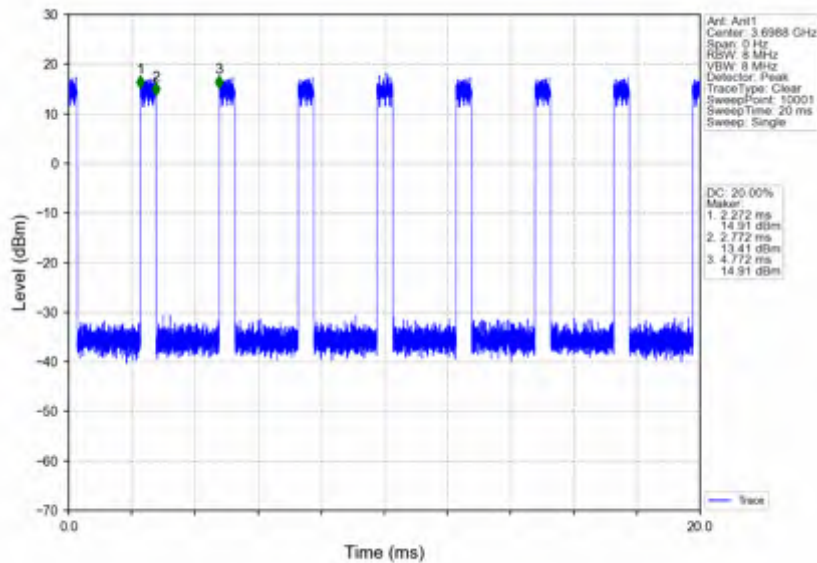
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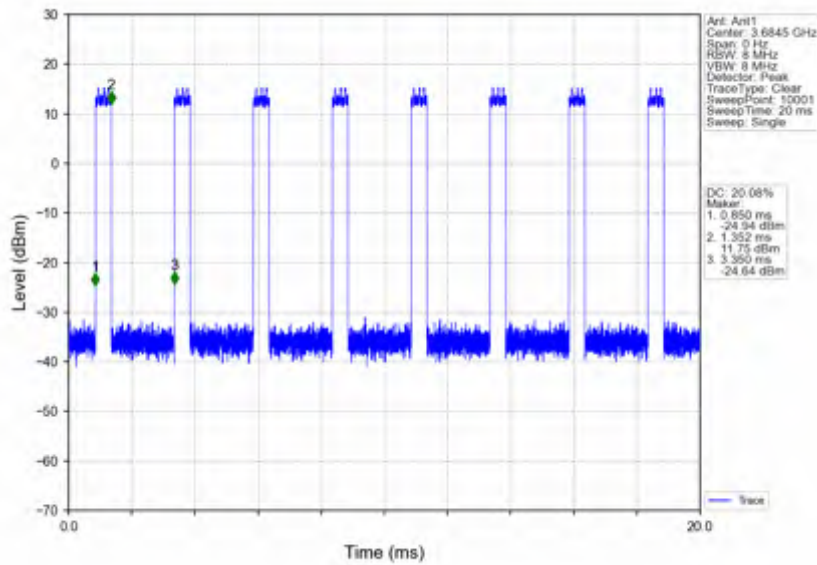
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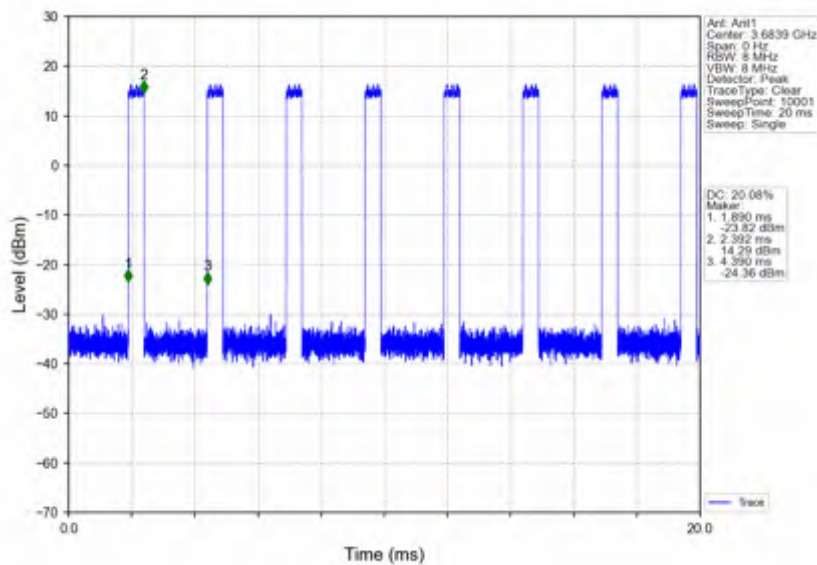
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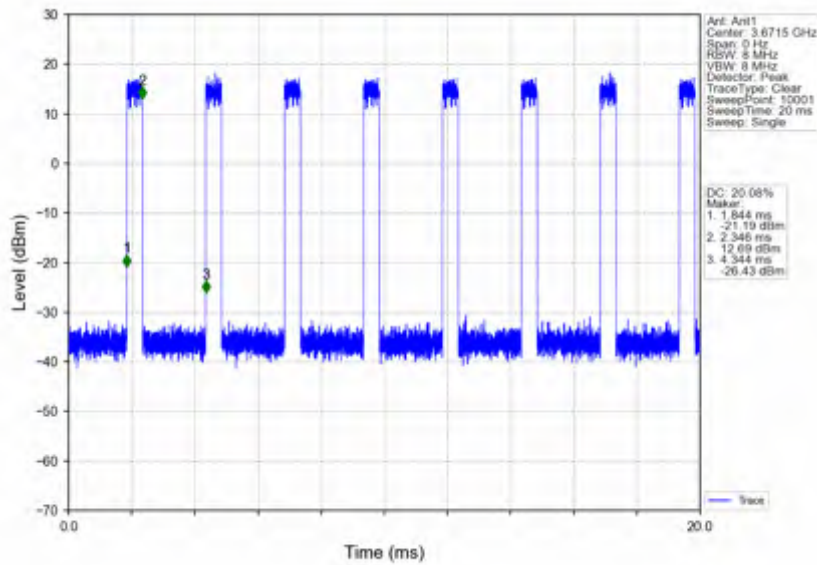
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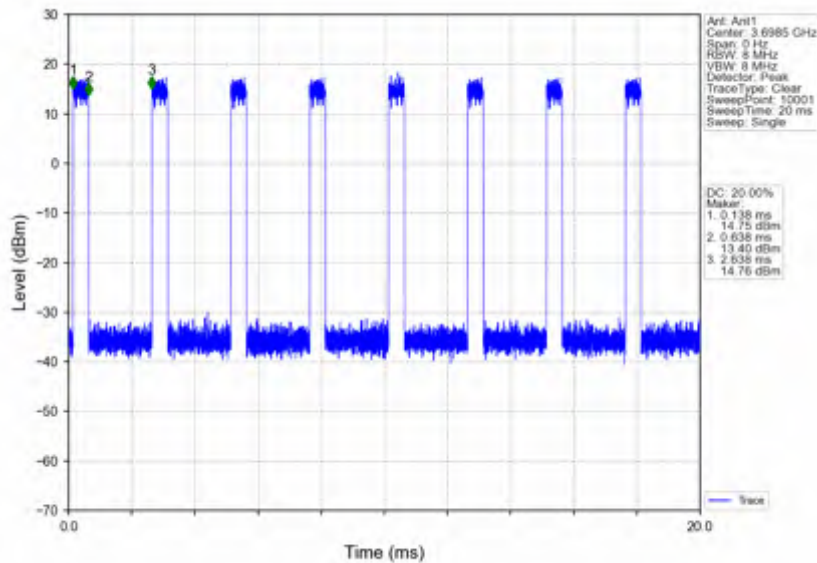
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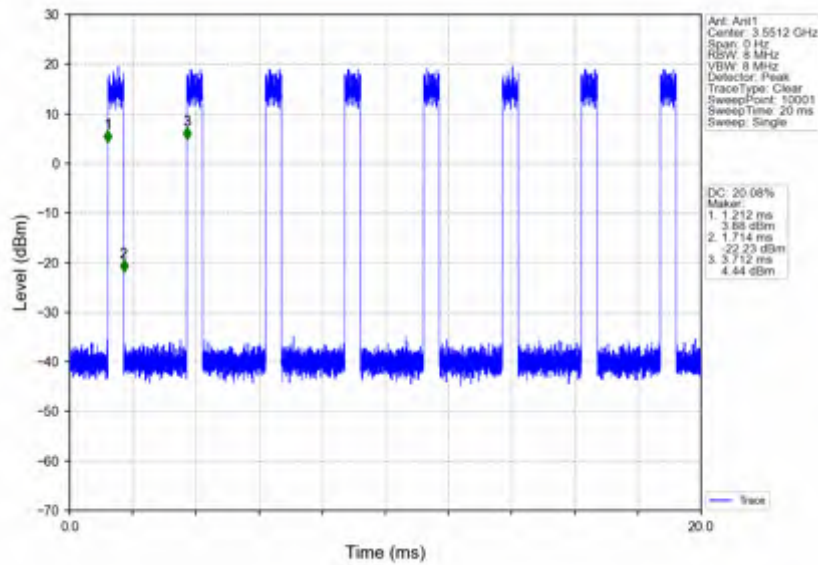


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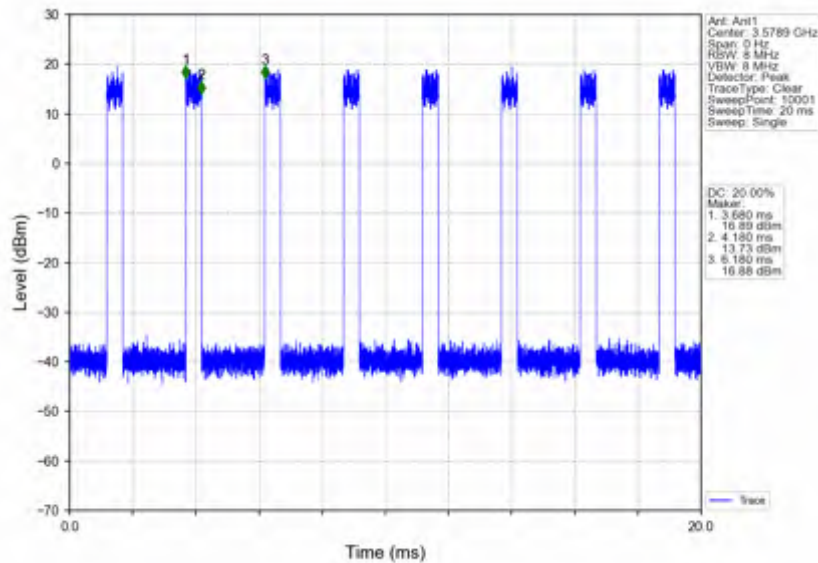
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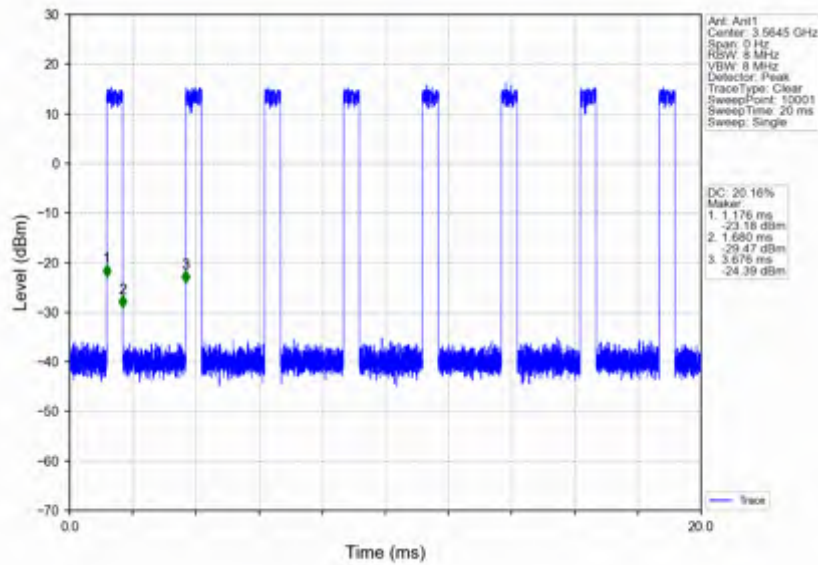
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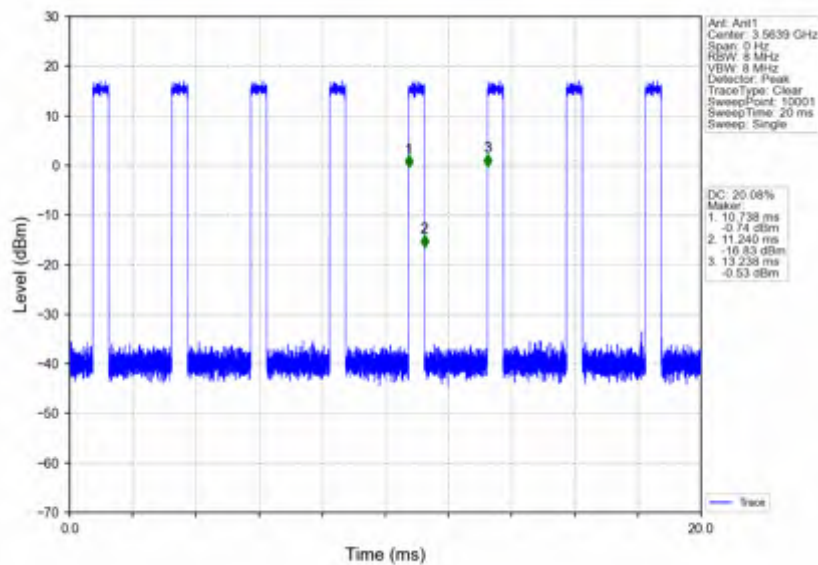
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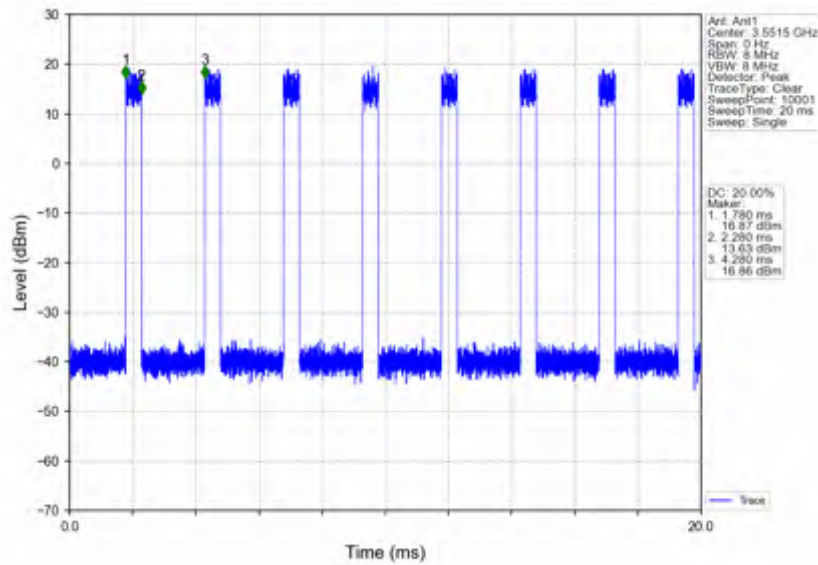


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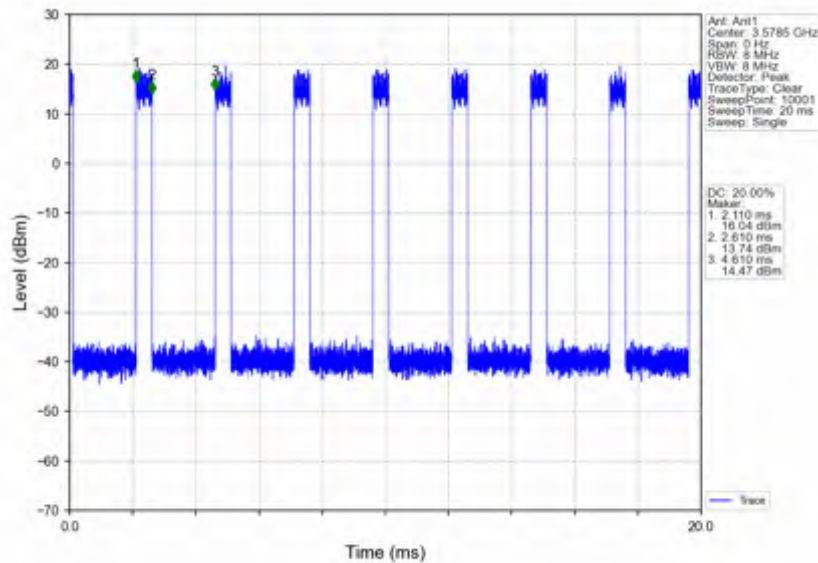
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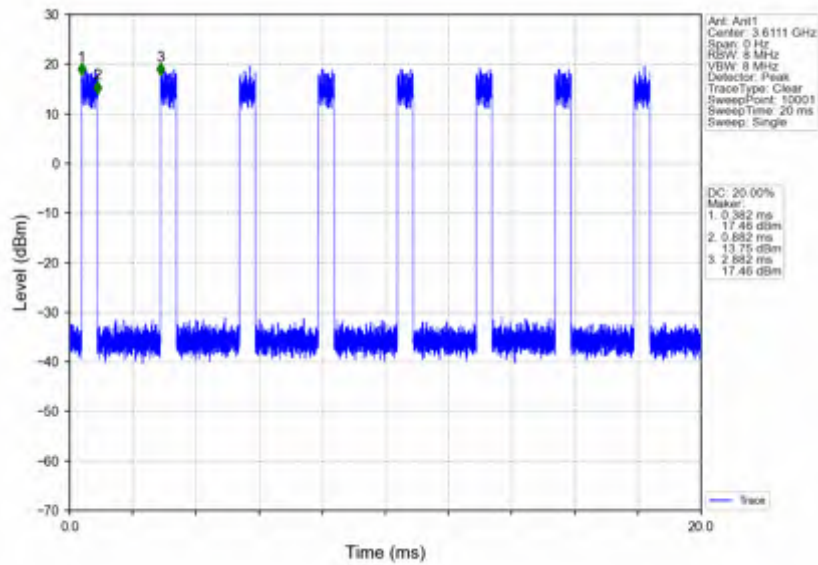
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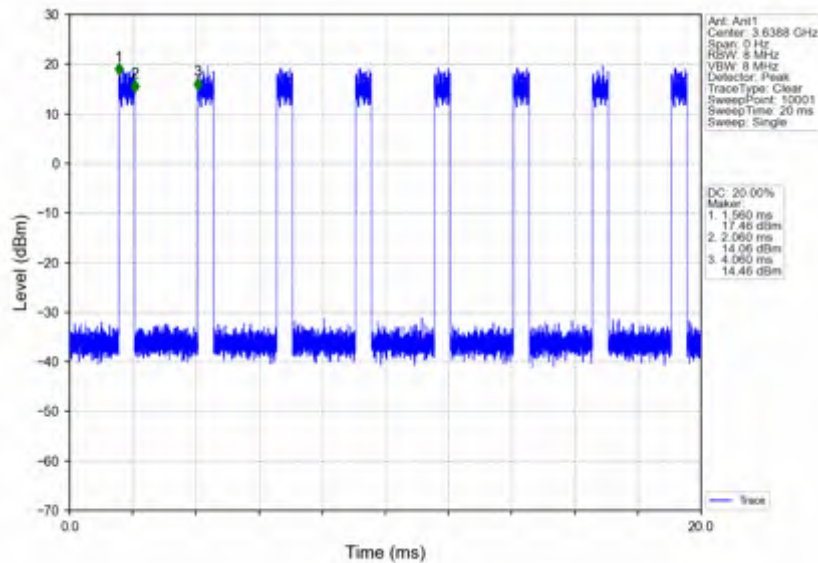
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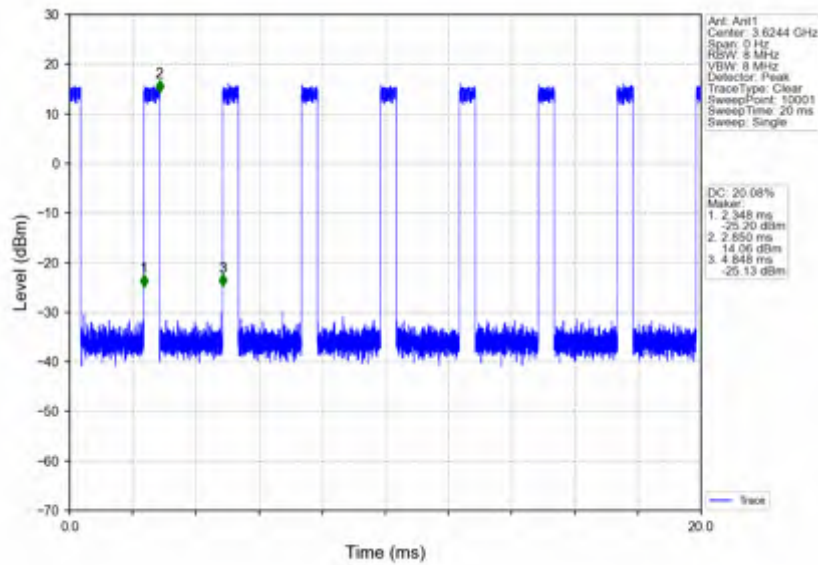


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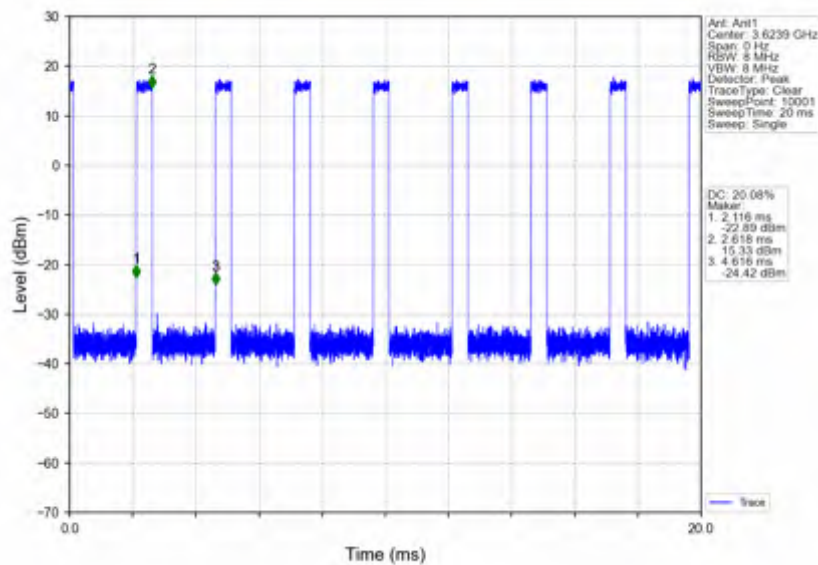
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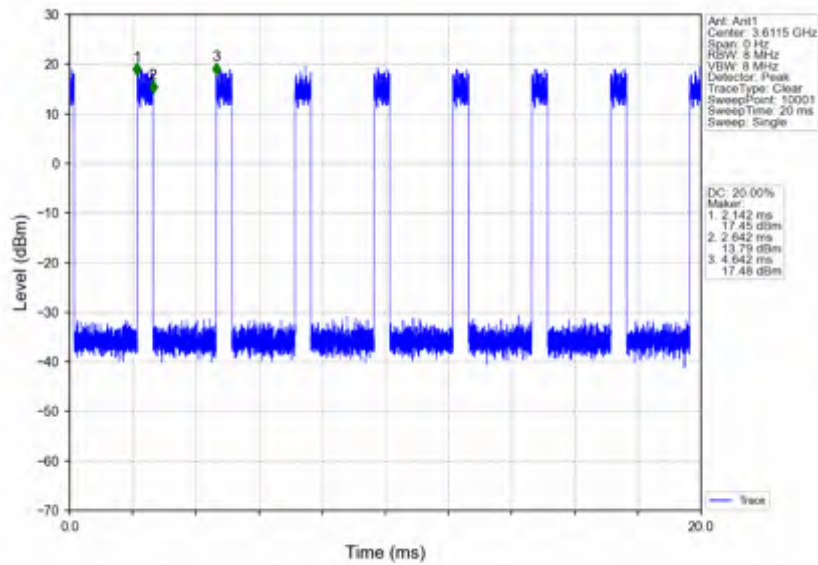
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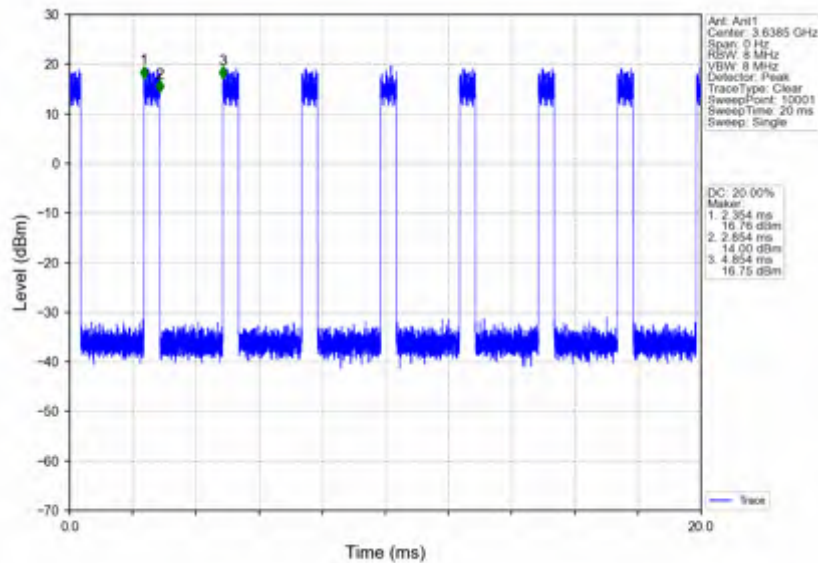
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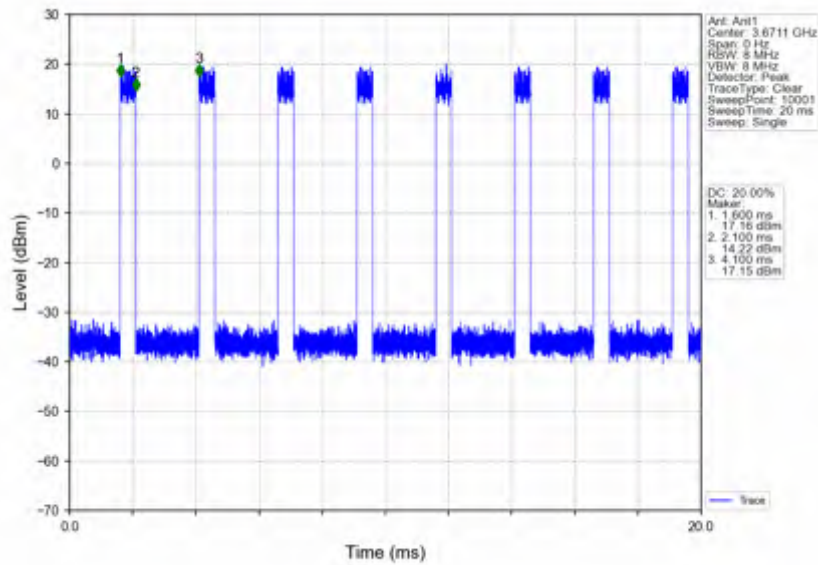


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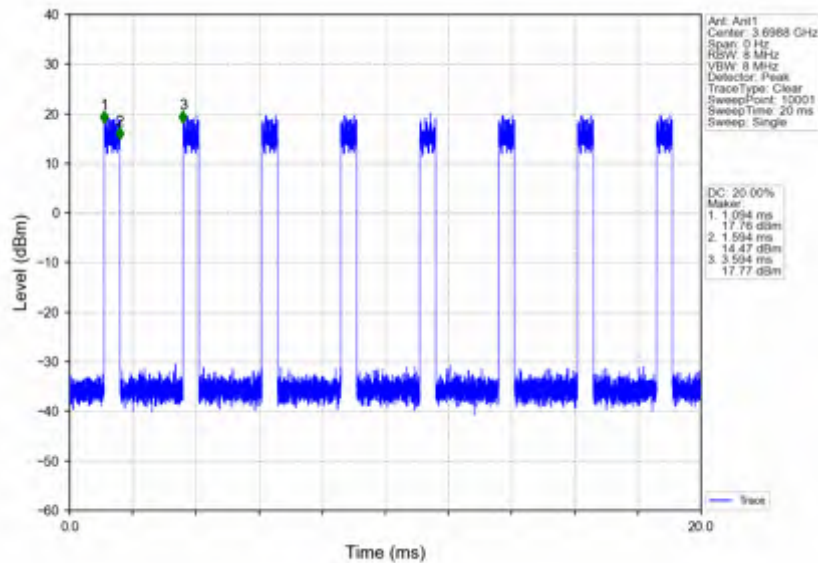
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Edge_1RB_Left



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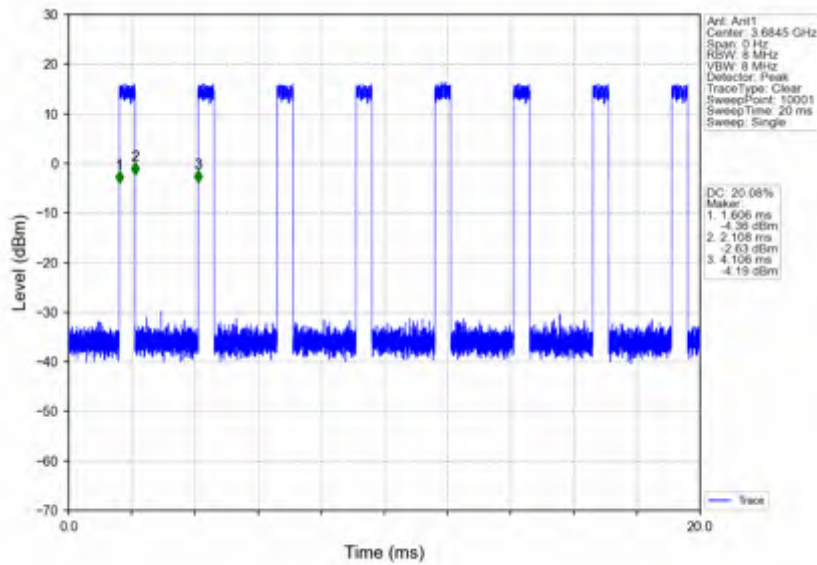
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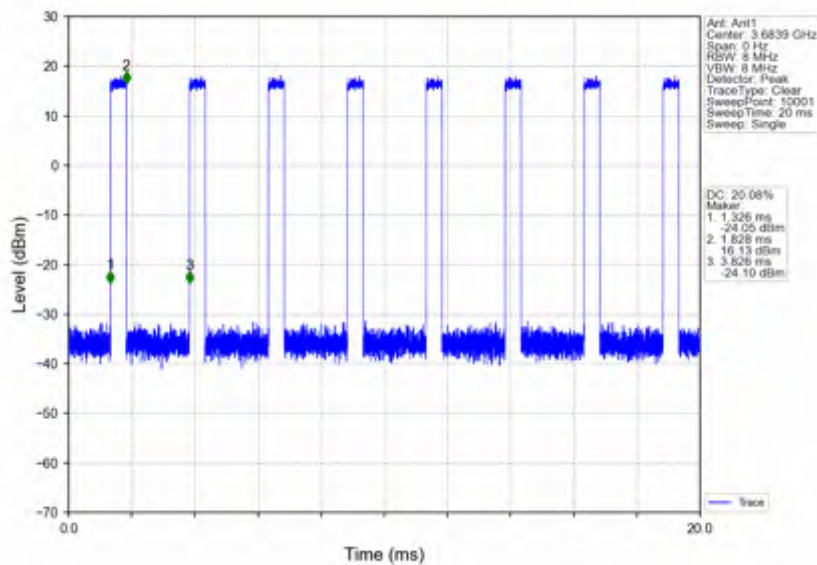
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Outer_Full



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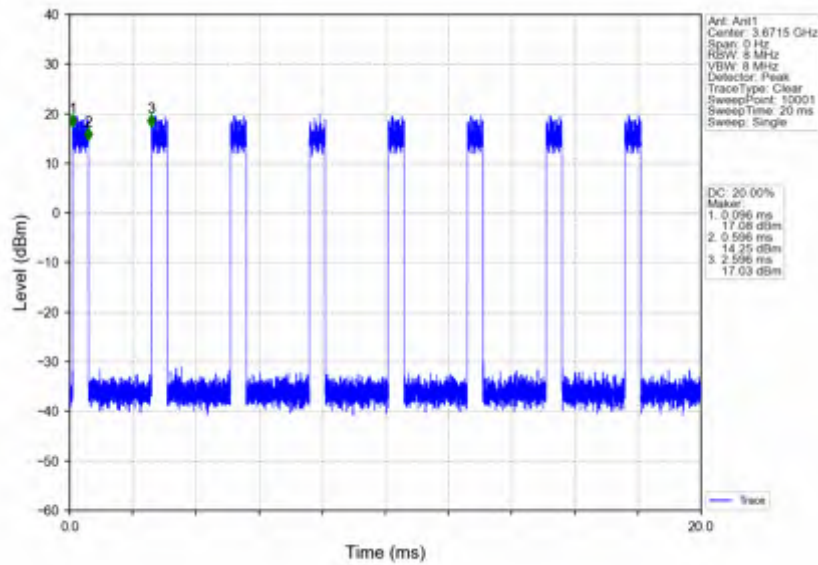
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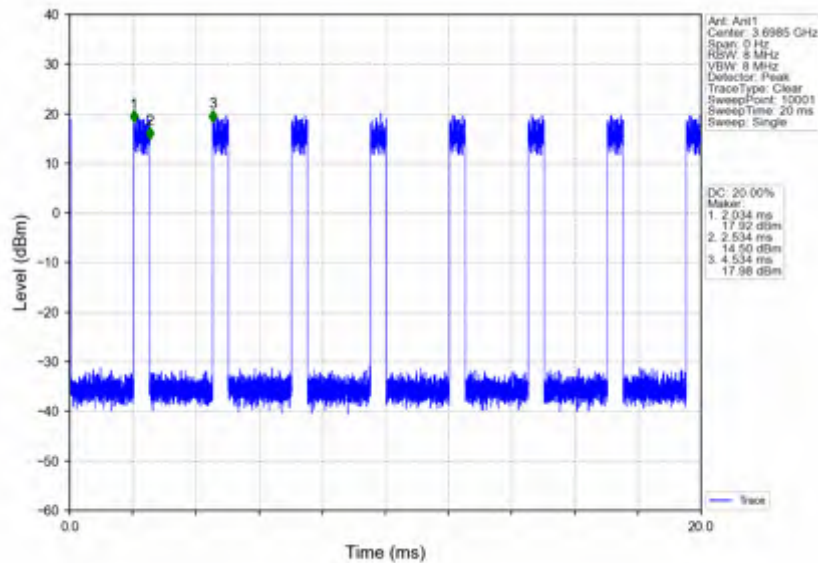
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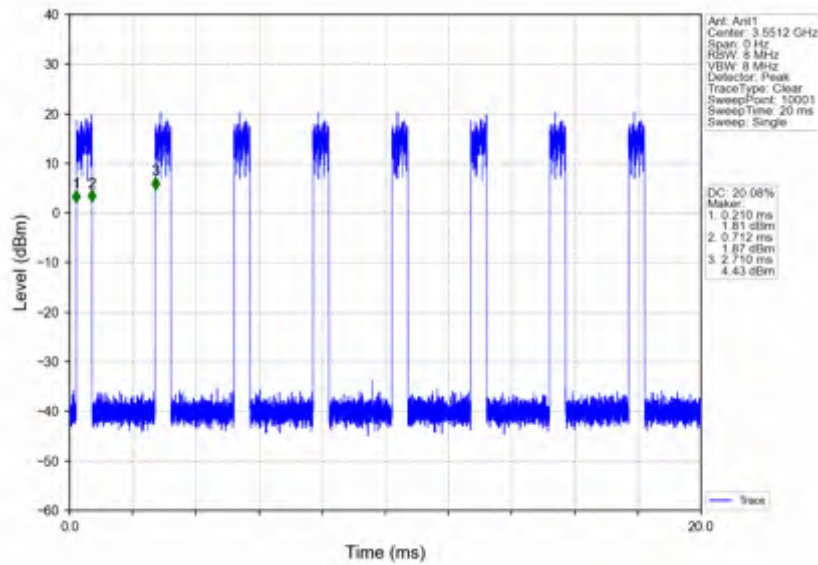
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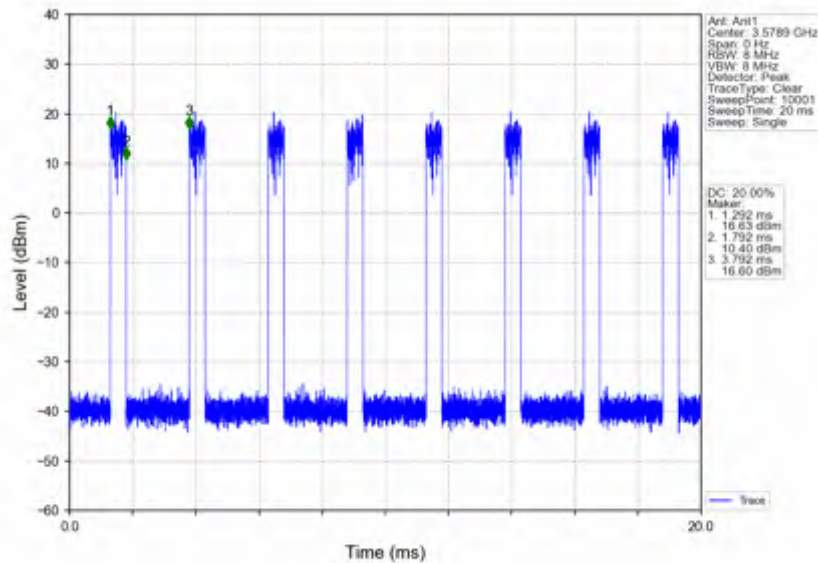
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16 QAM_3565.02MHz_Edge_1RB_Left



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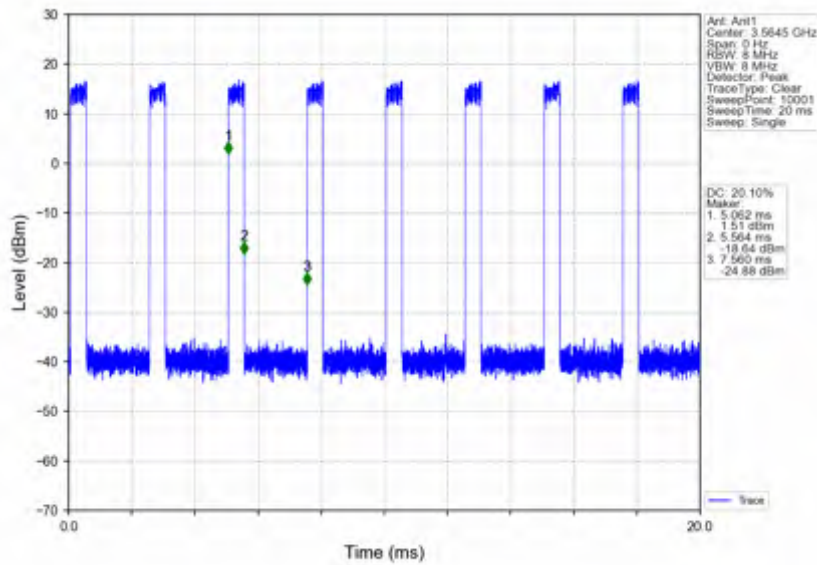


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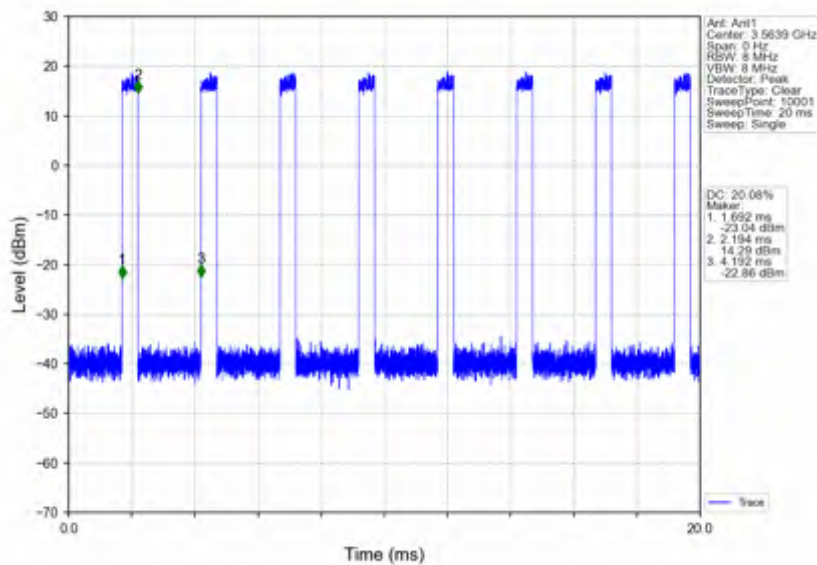
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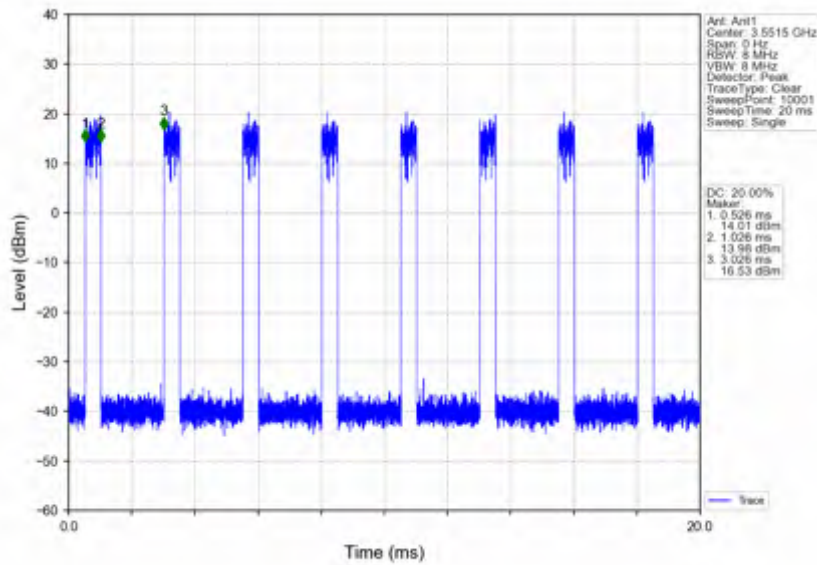
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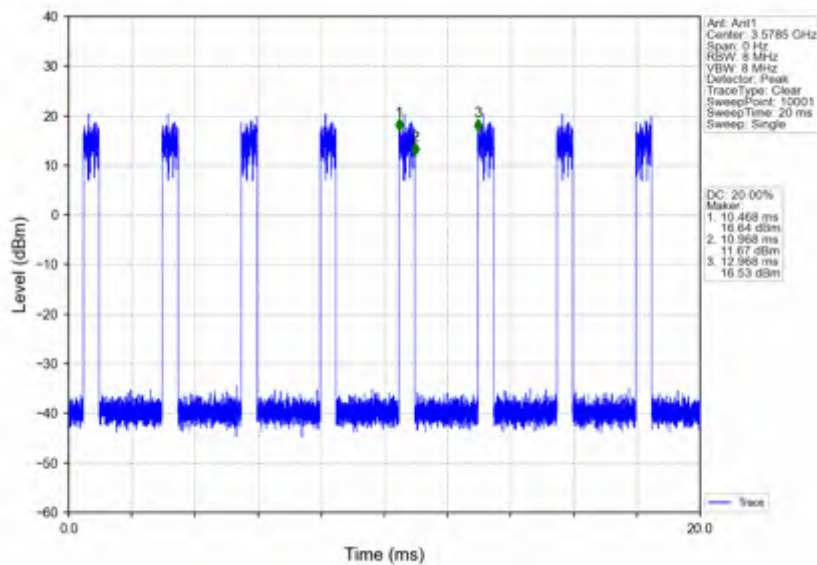
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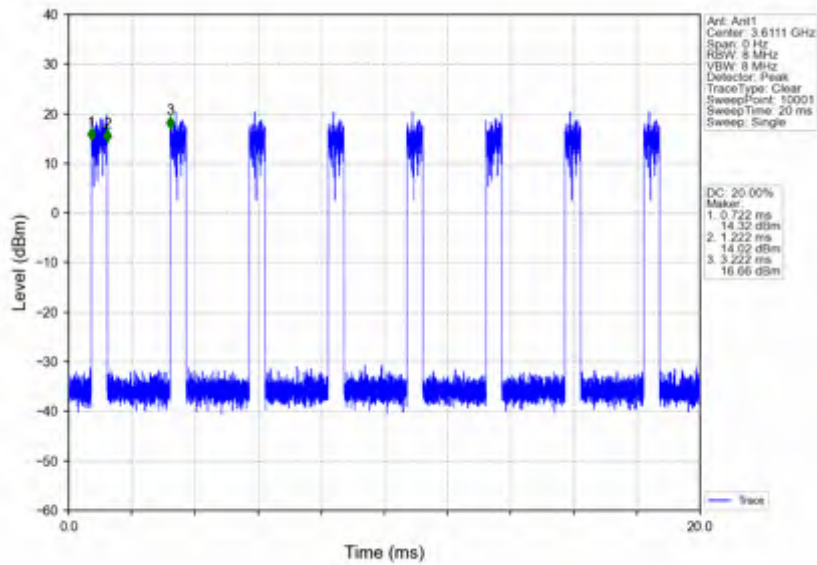
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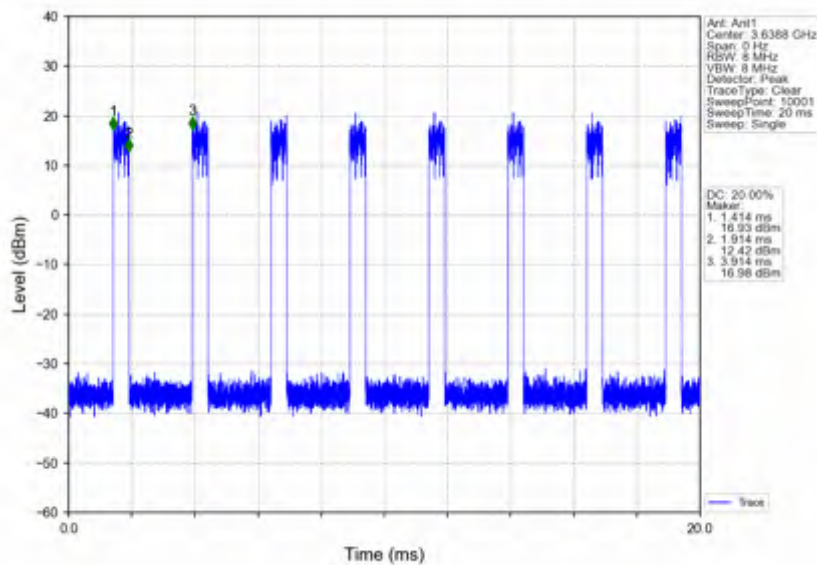
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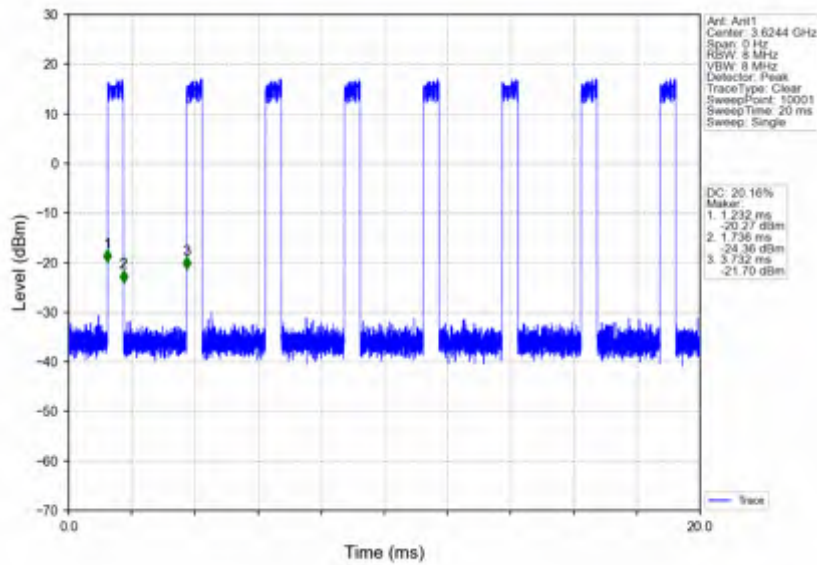
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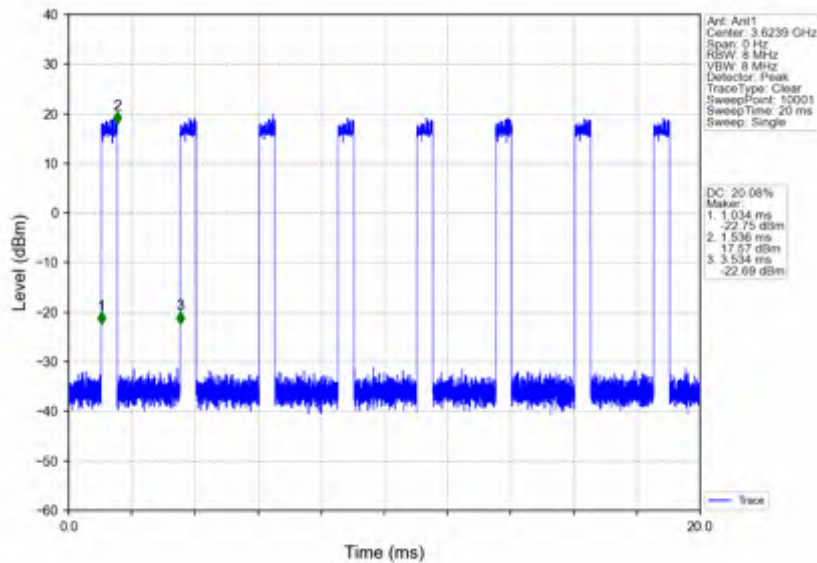
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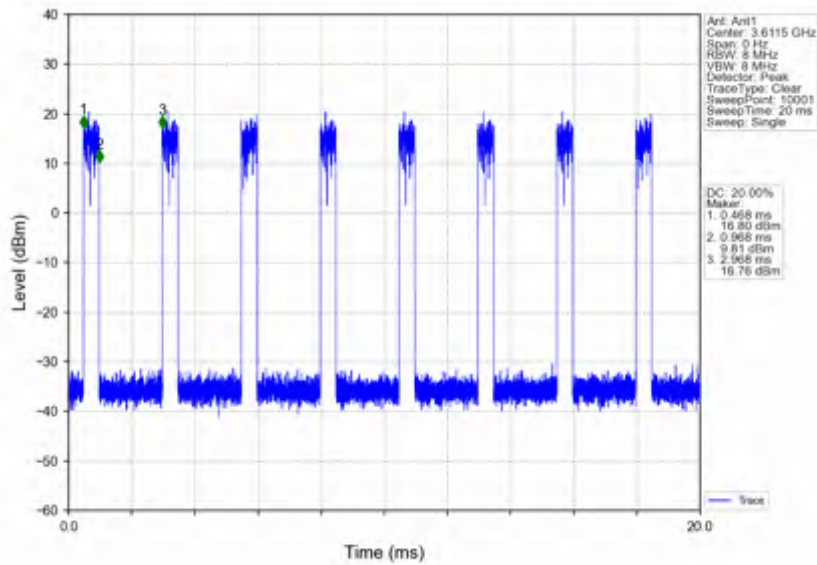
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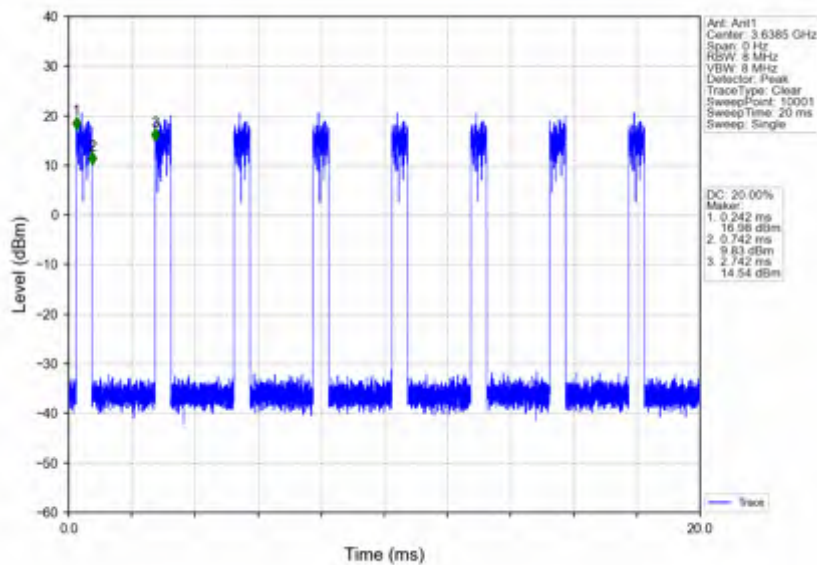
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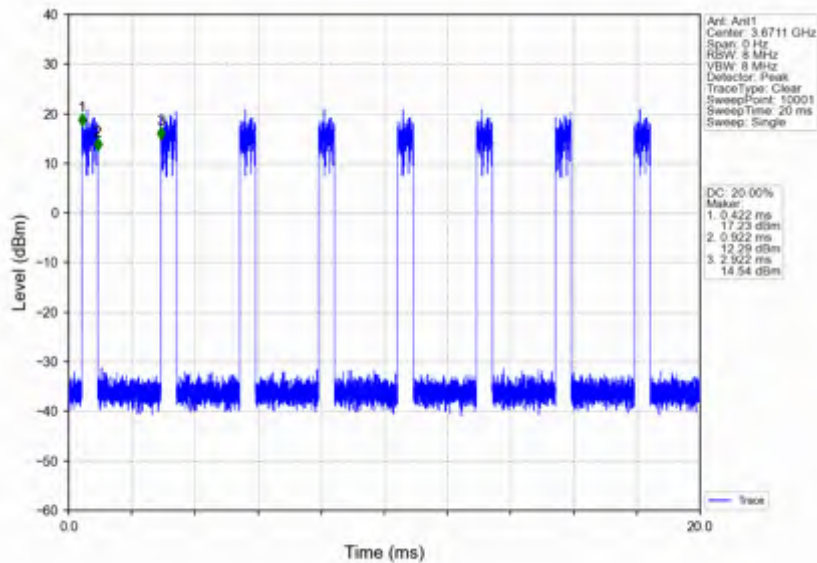


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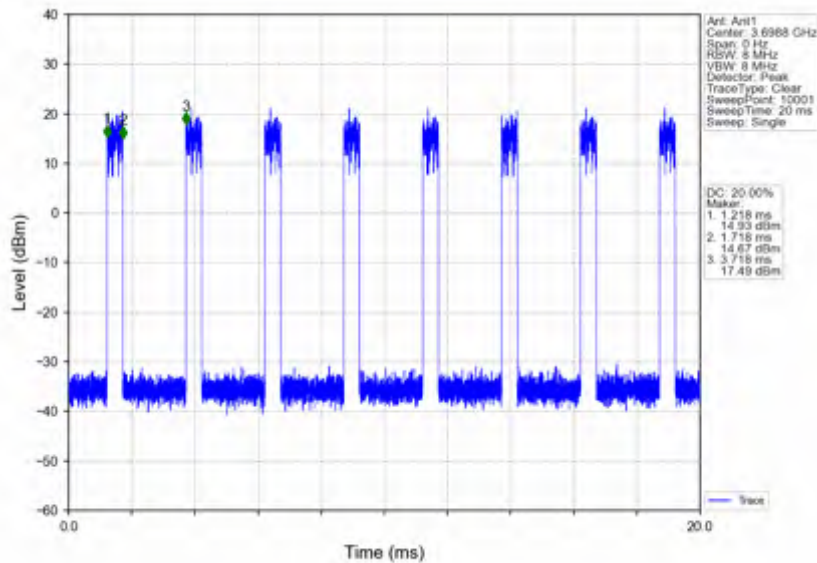
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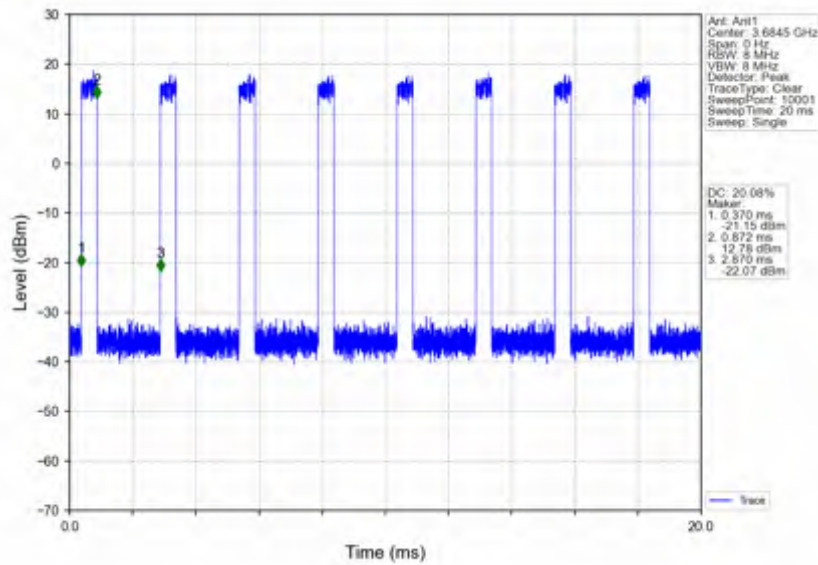


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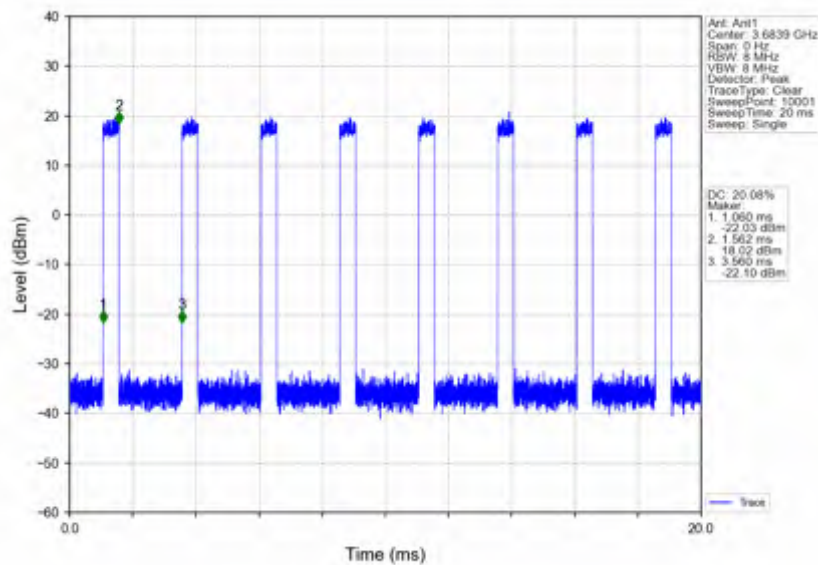
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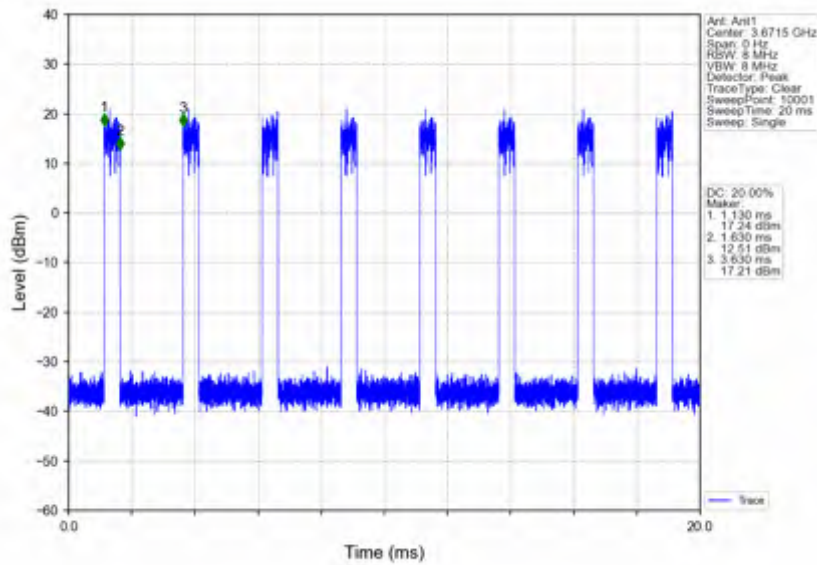
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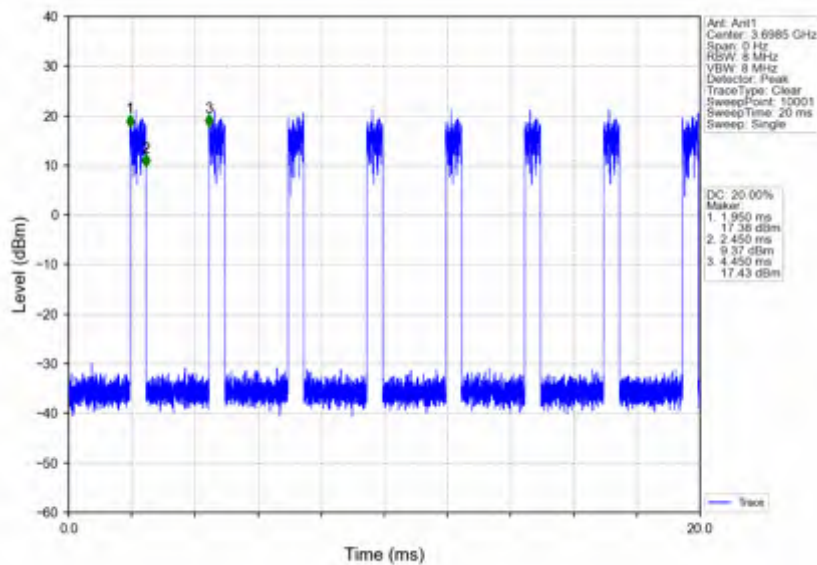
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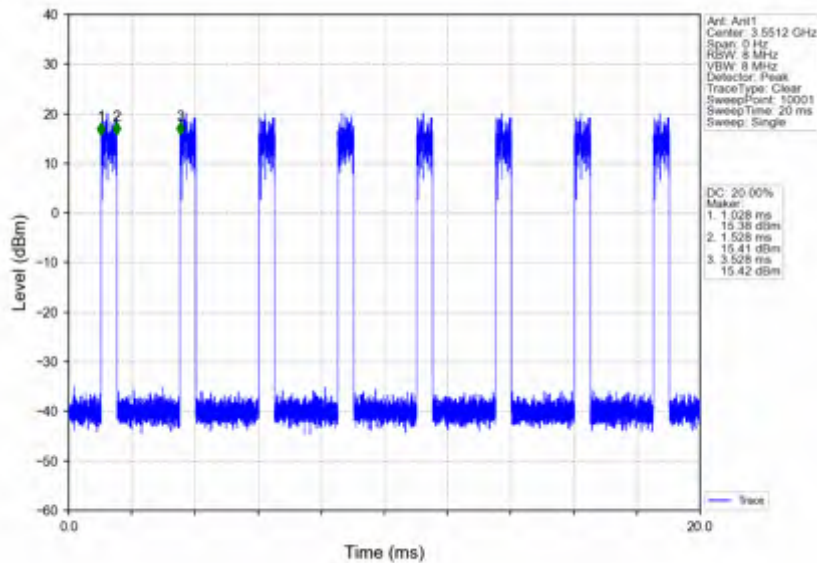
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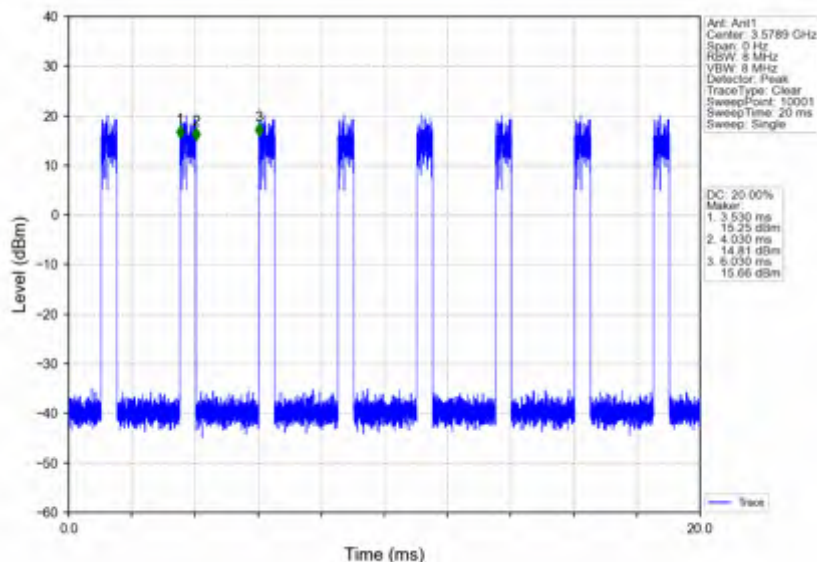
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Edge_1RB_Left



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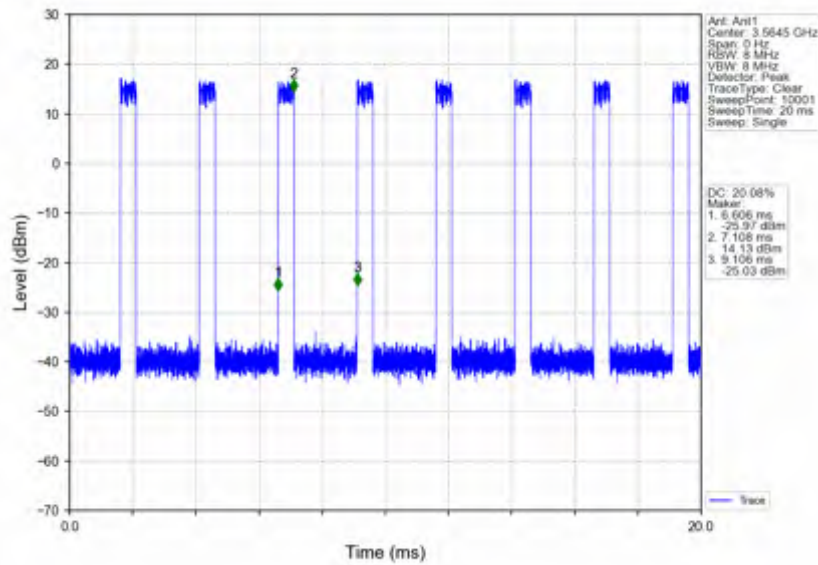


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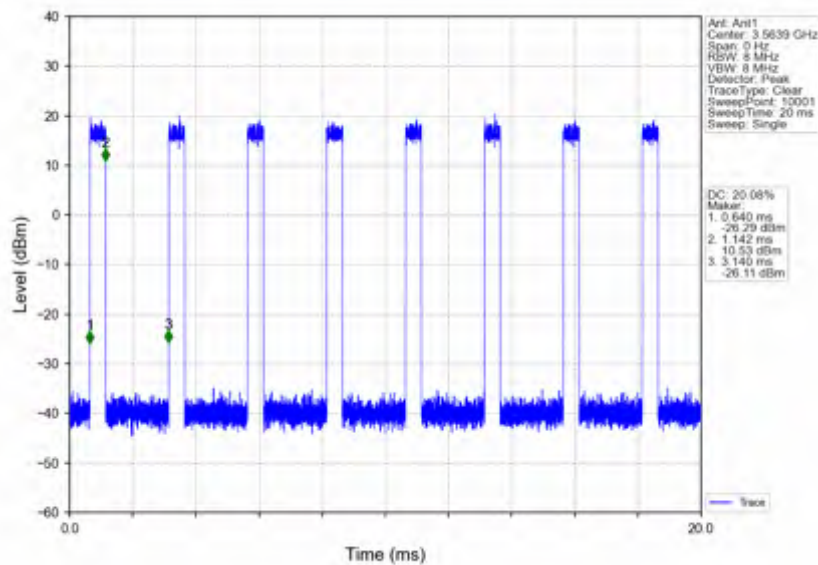
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Outer_Full



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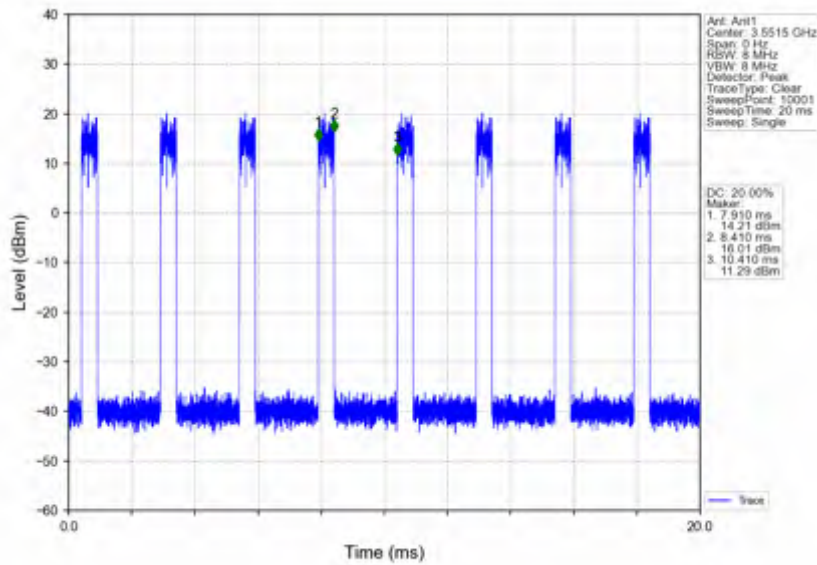


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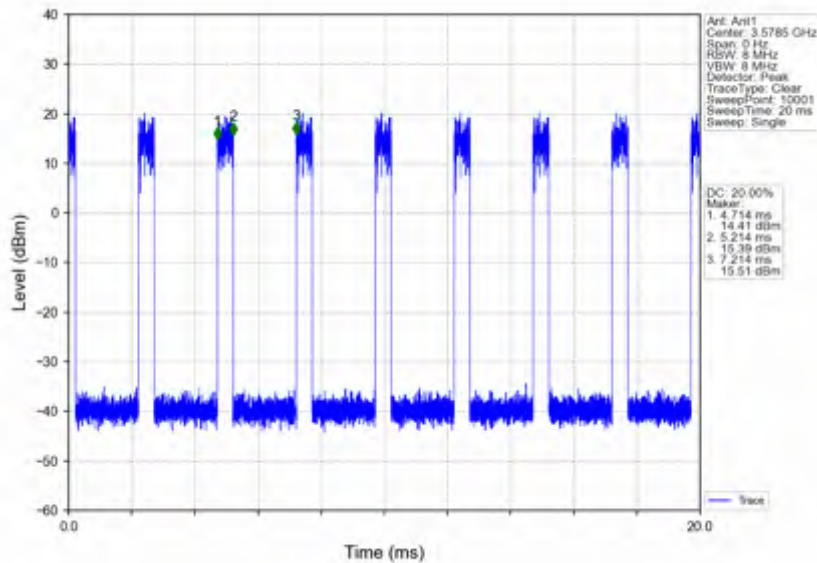
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3565.02MHz_Inner_1RB_Left



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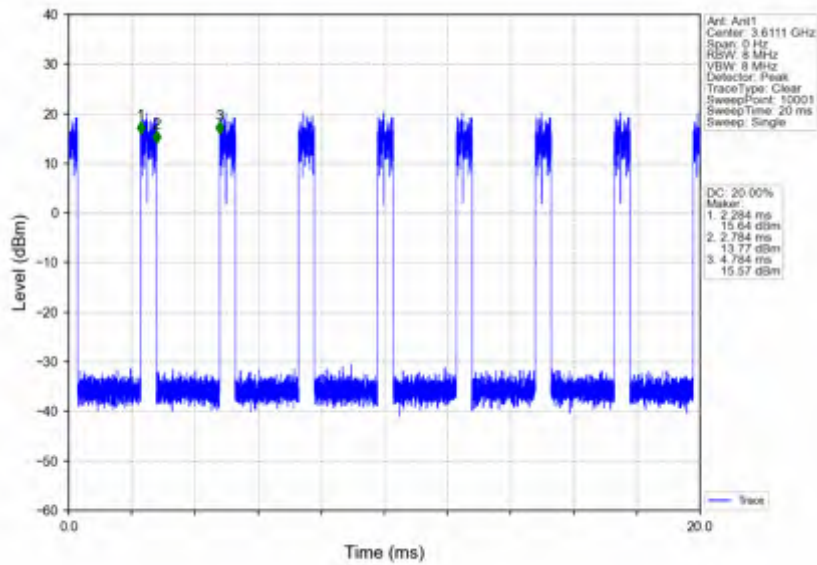
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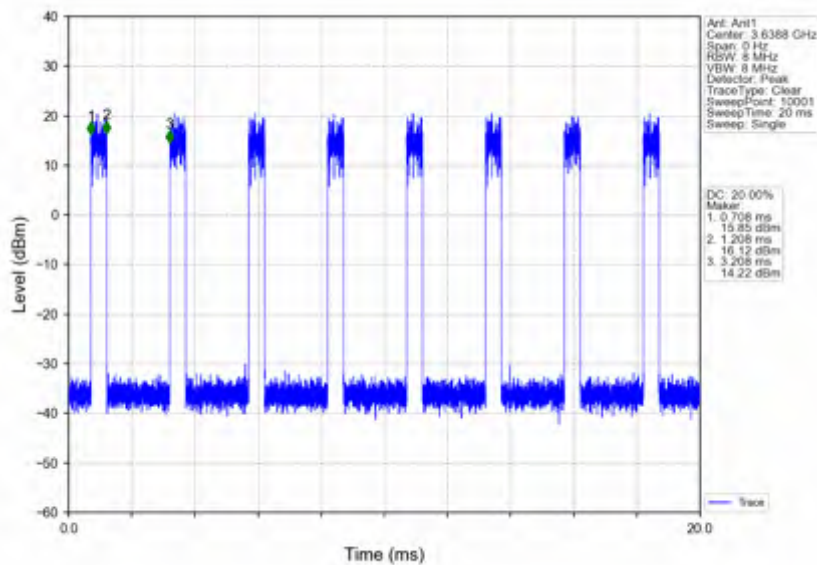
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Edge_1RB_Left



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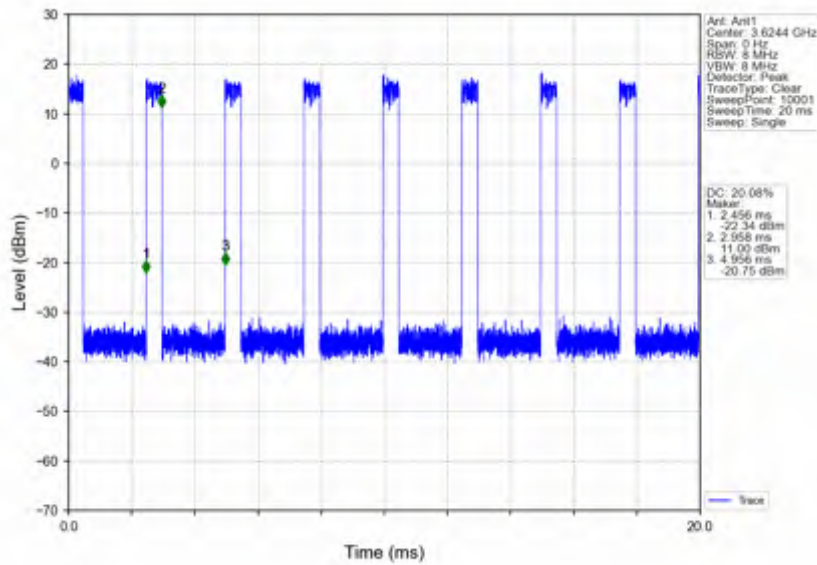
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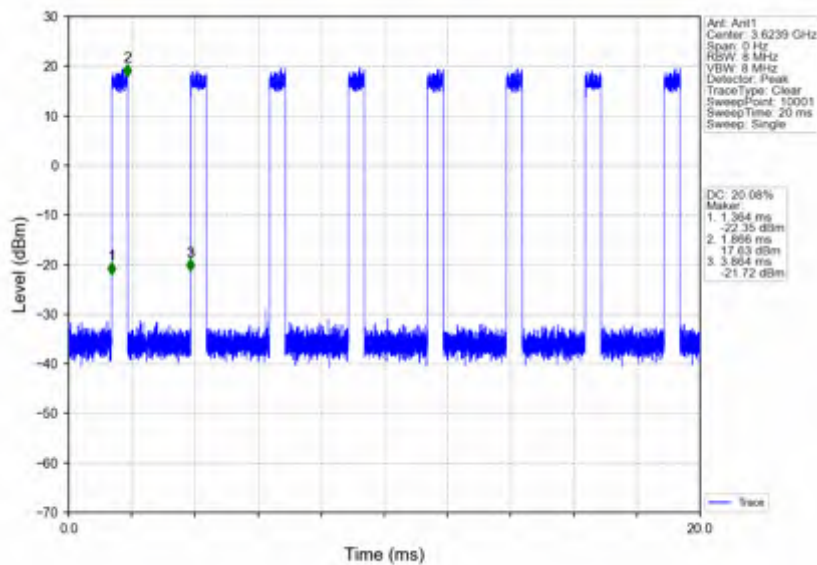
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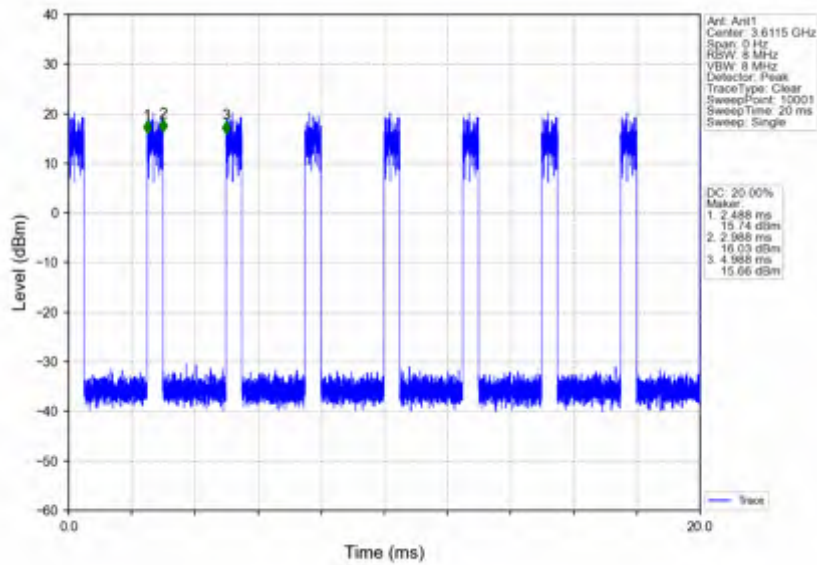
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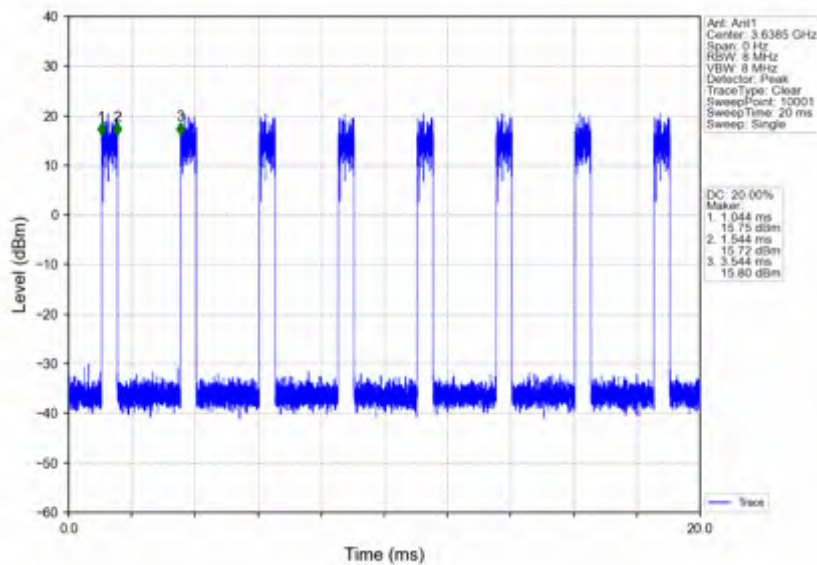
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Inner_1RB_Left



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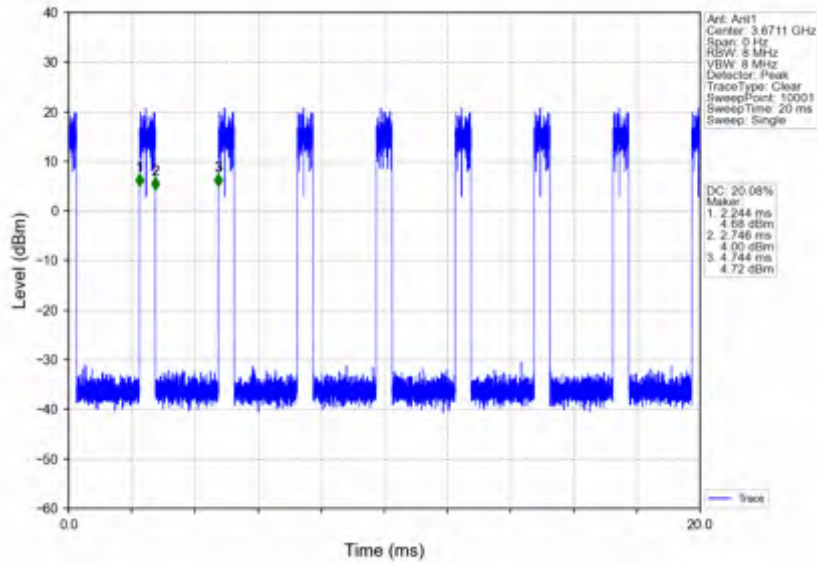


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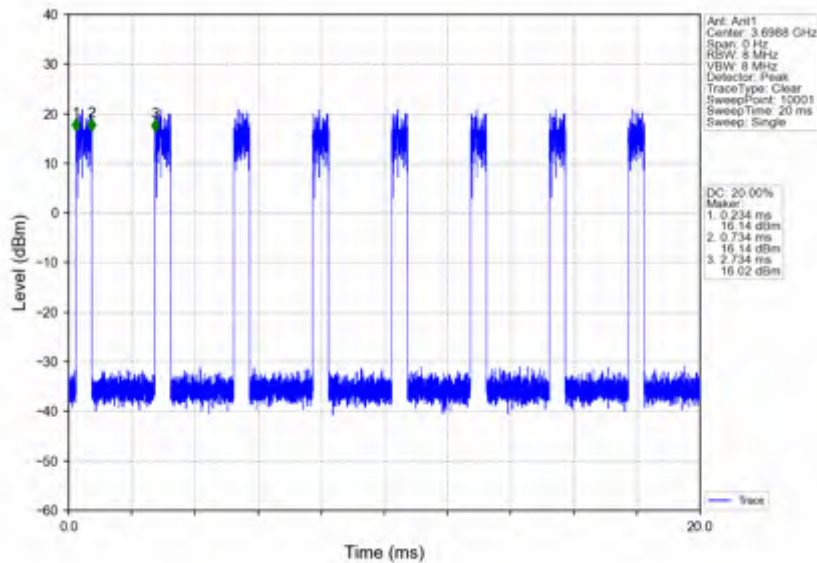
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3684.99MHz_Edge_1RB_Left



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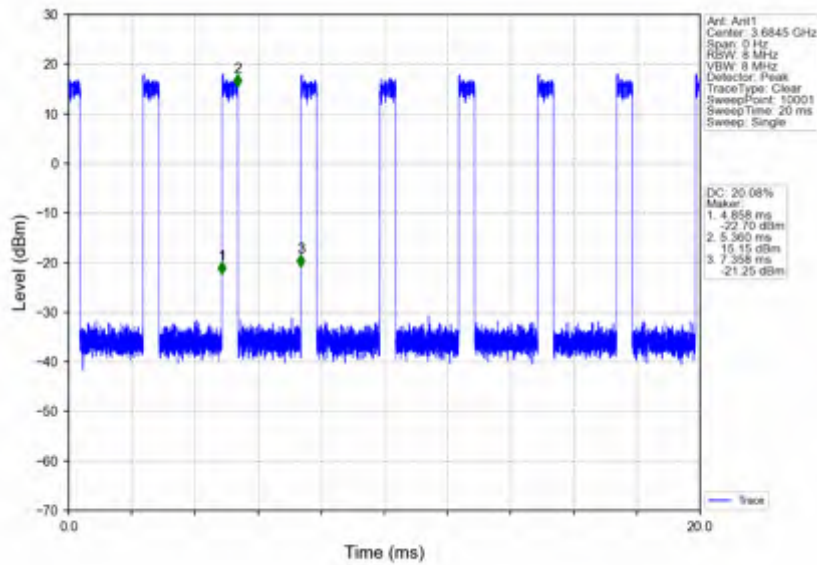
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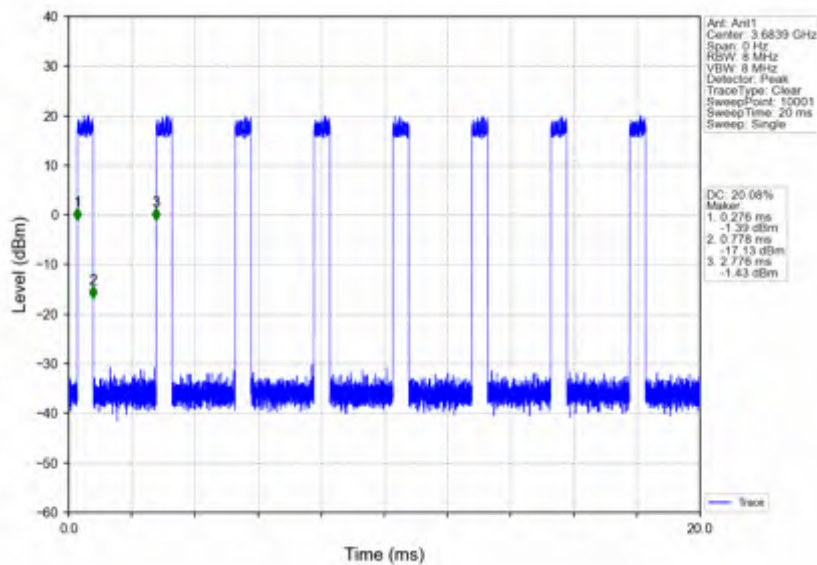
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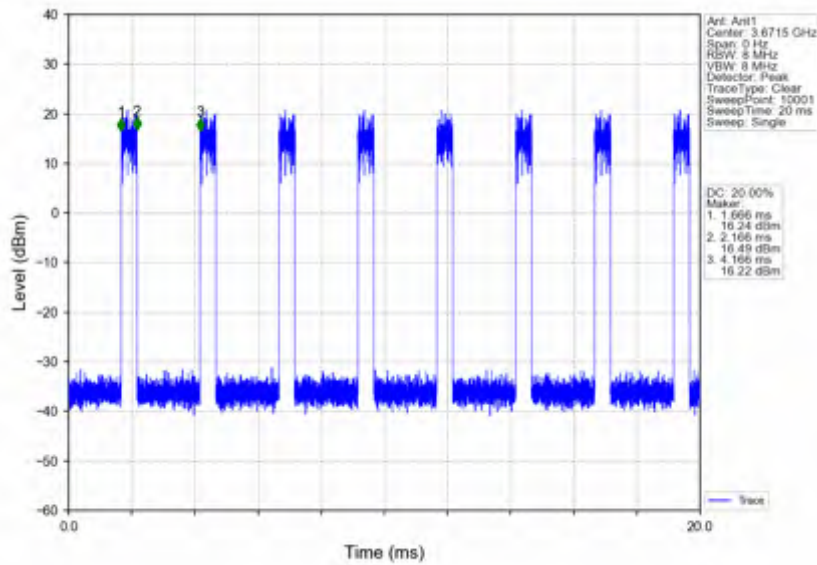
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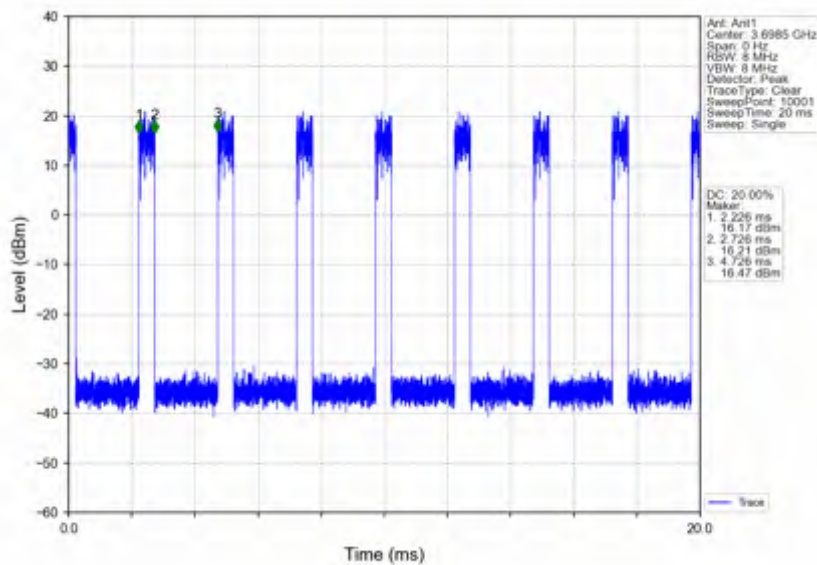
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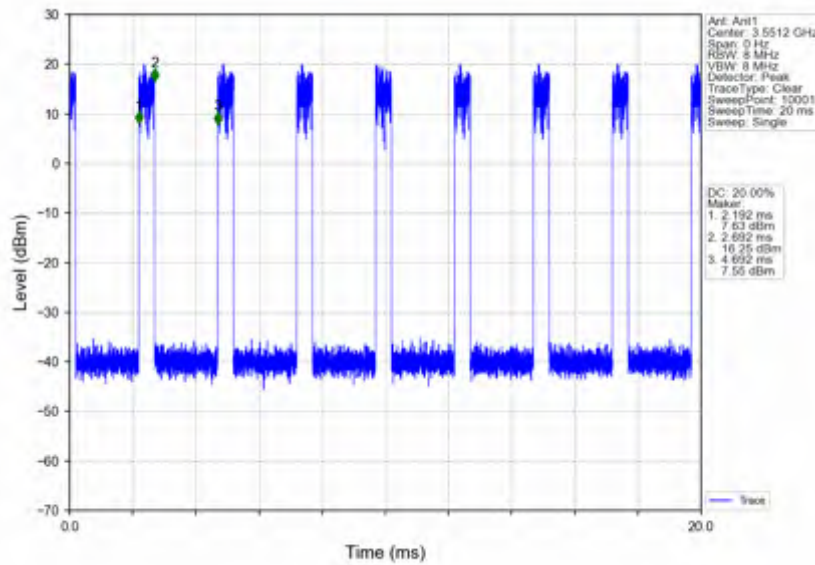


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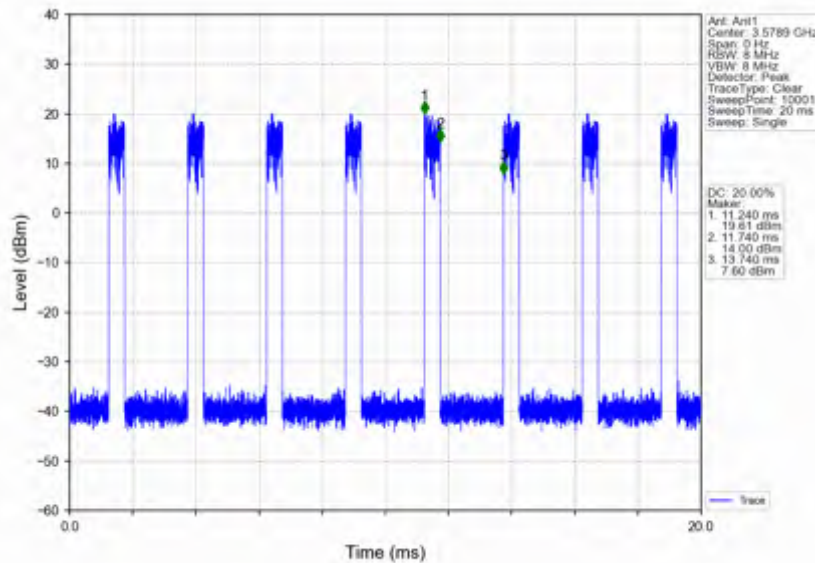
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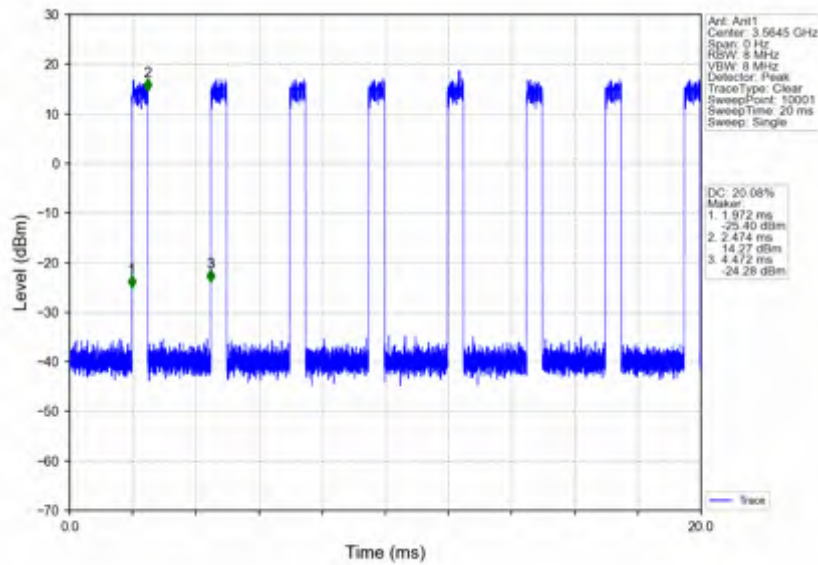


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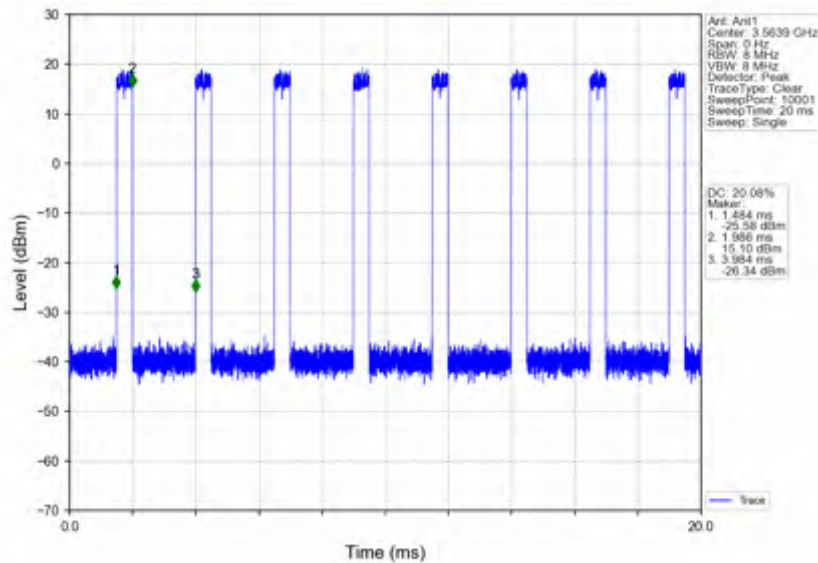
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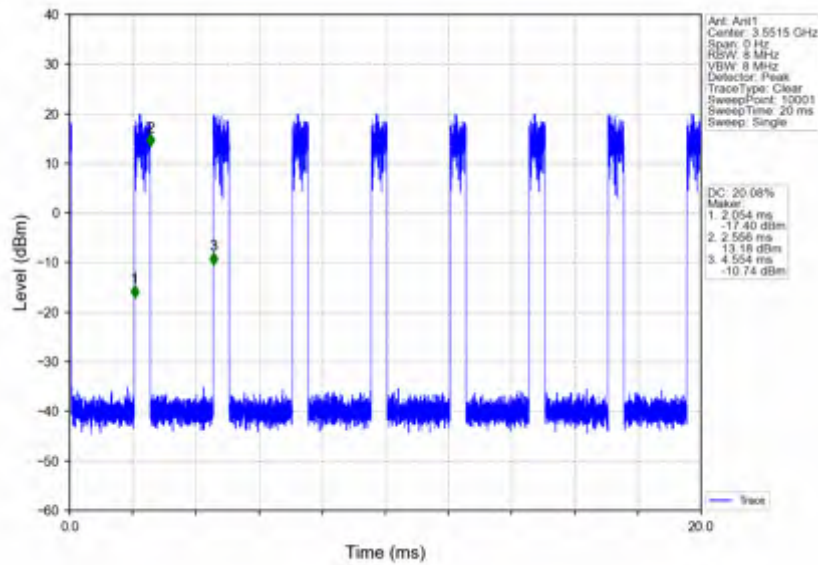


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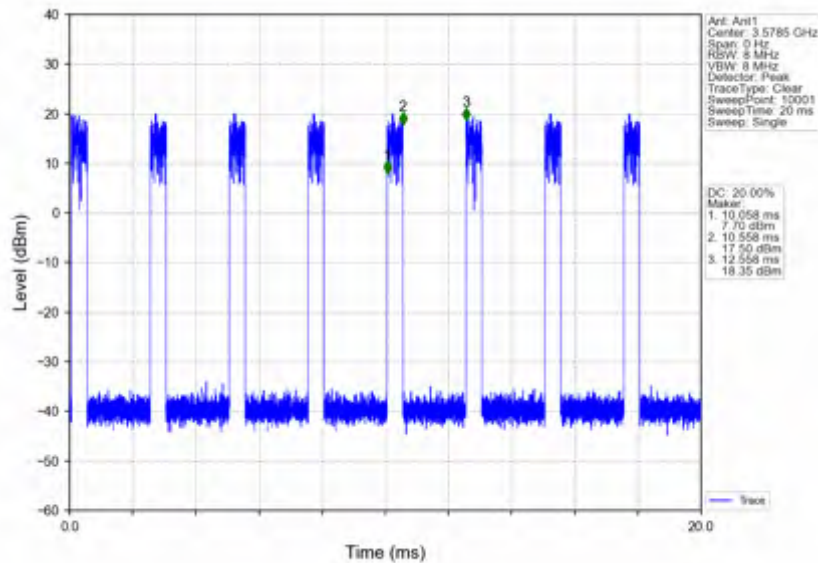
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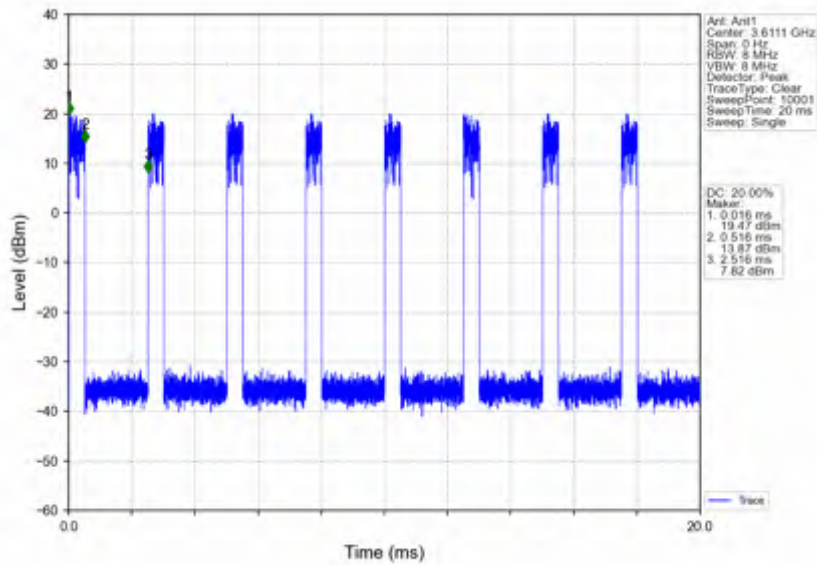


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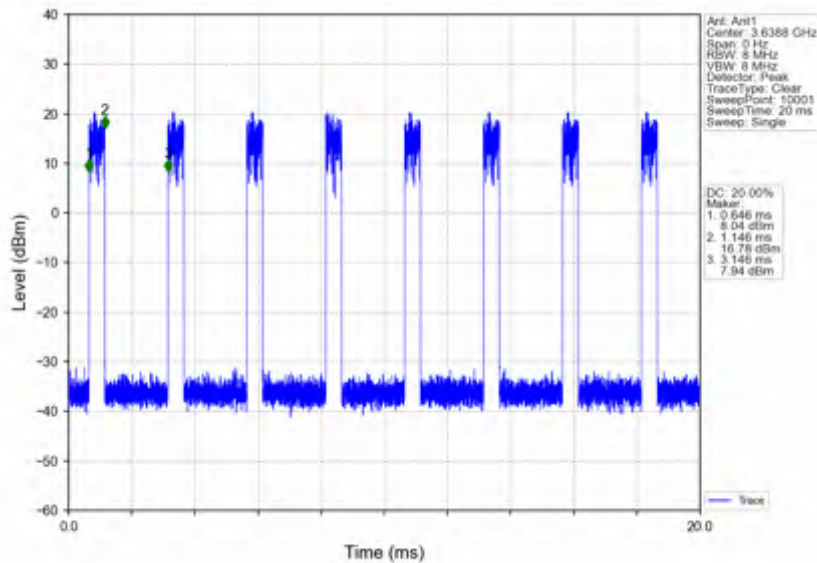
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



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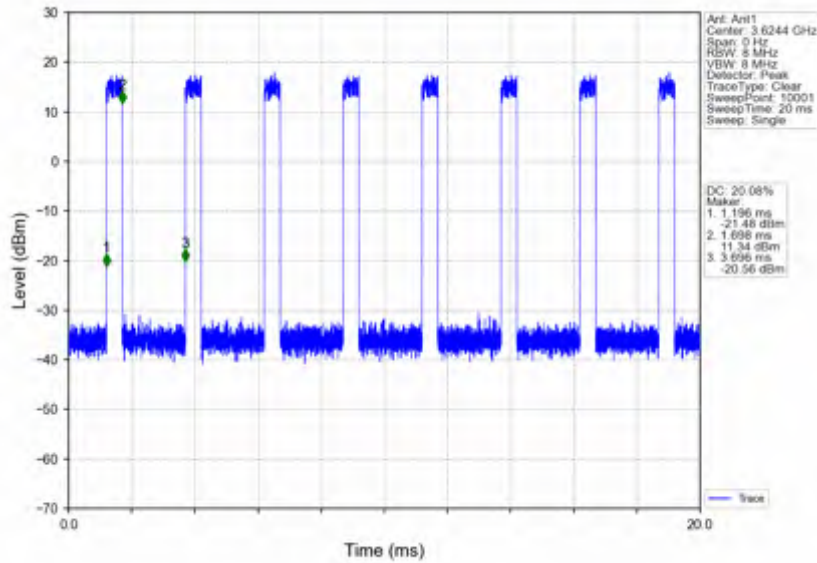
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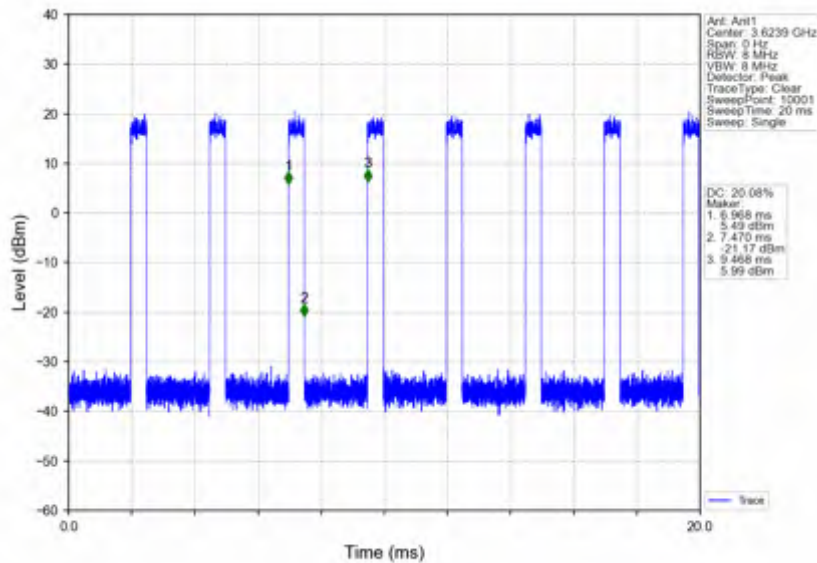
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full



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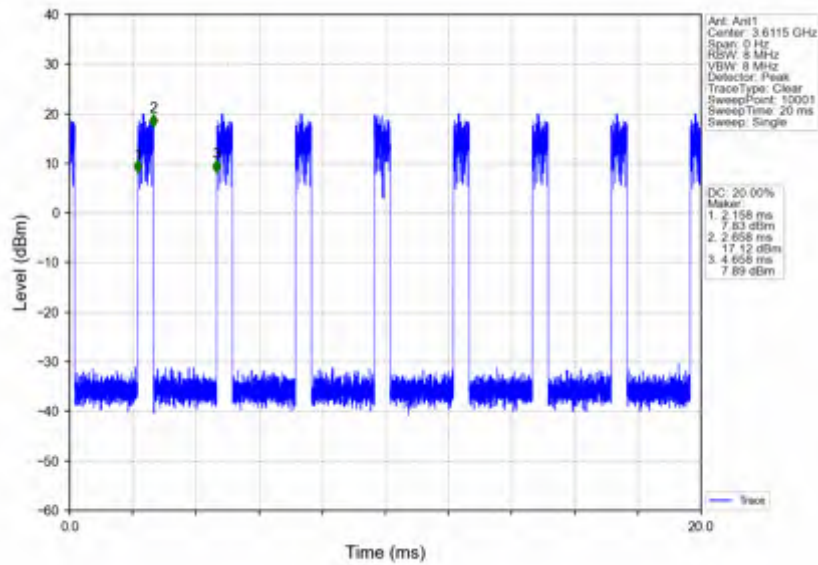


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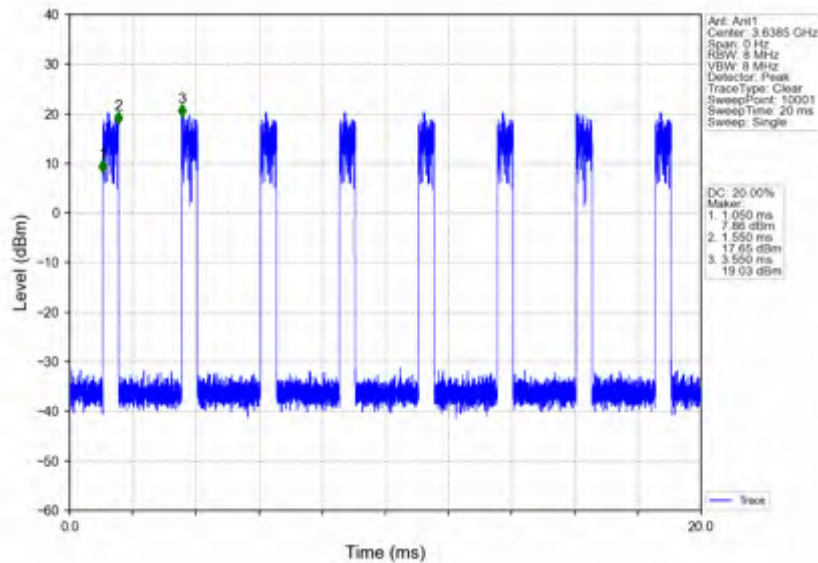
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



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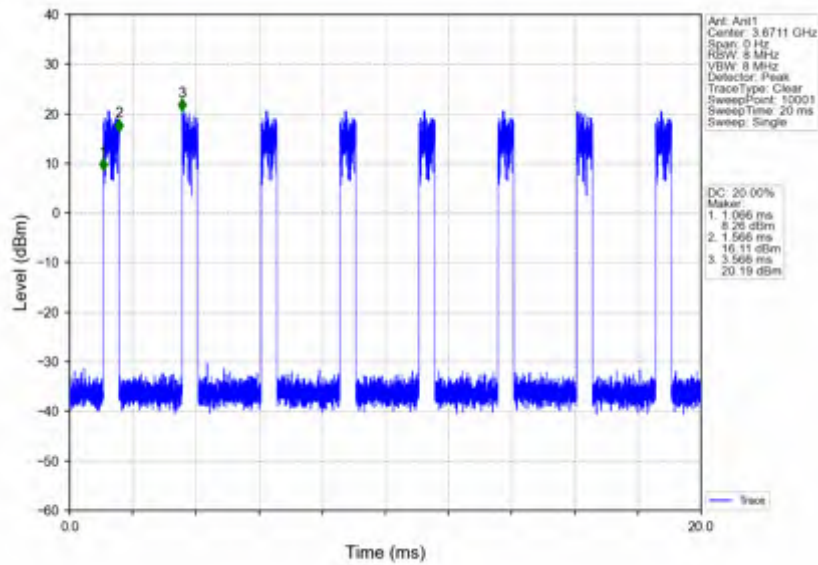


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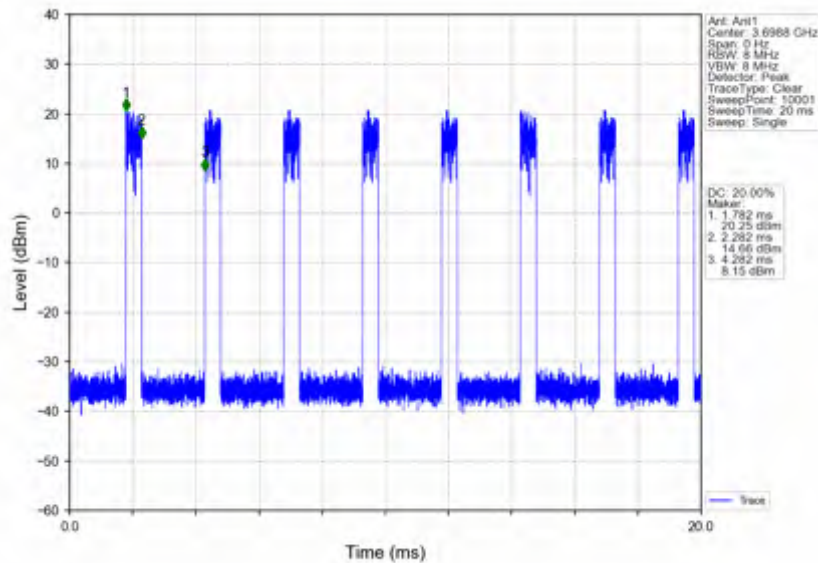
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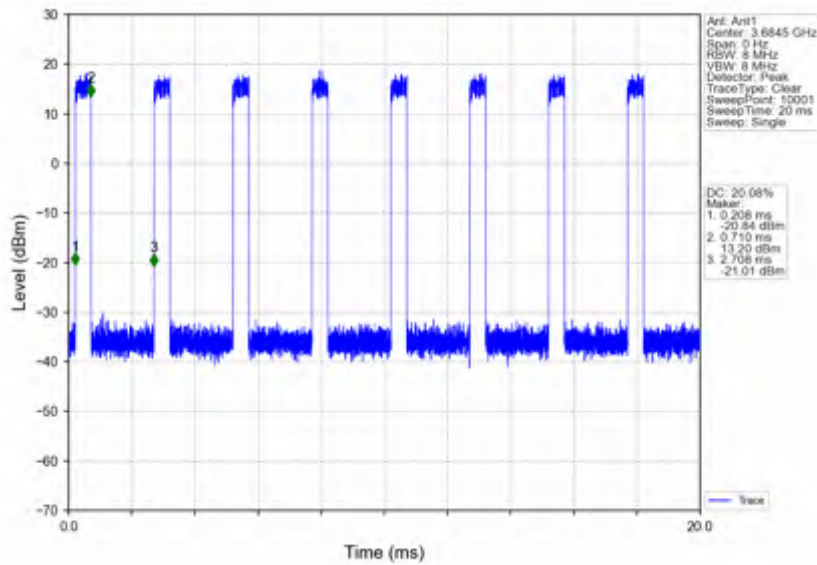


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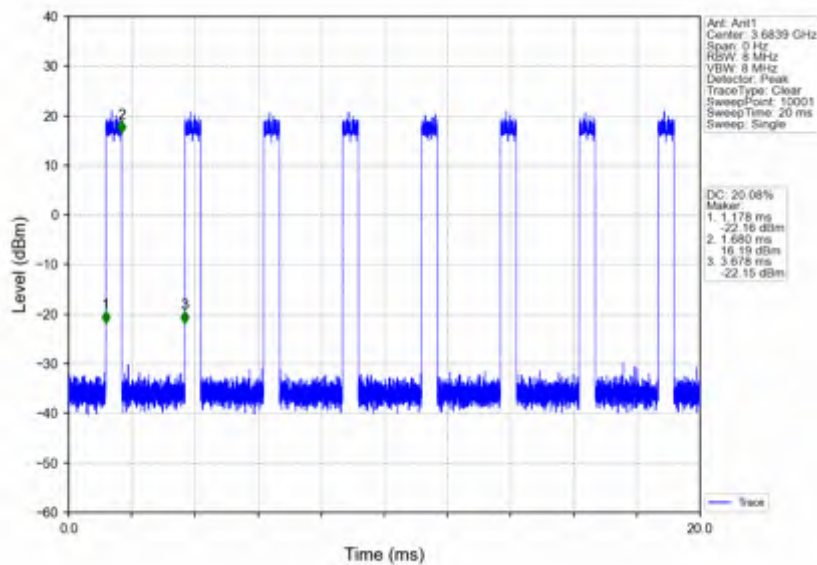
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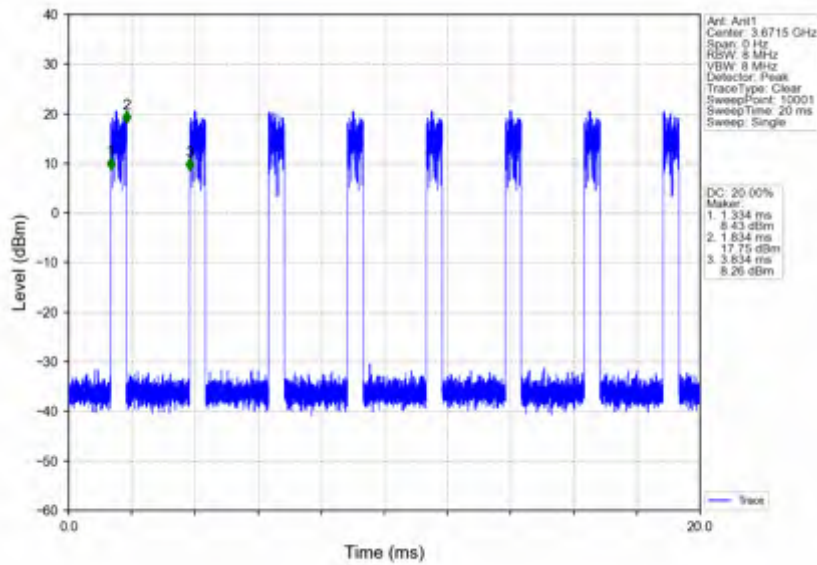


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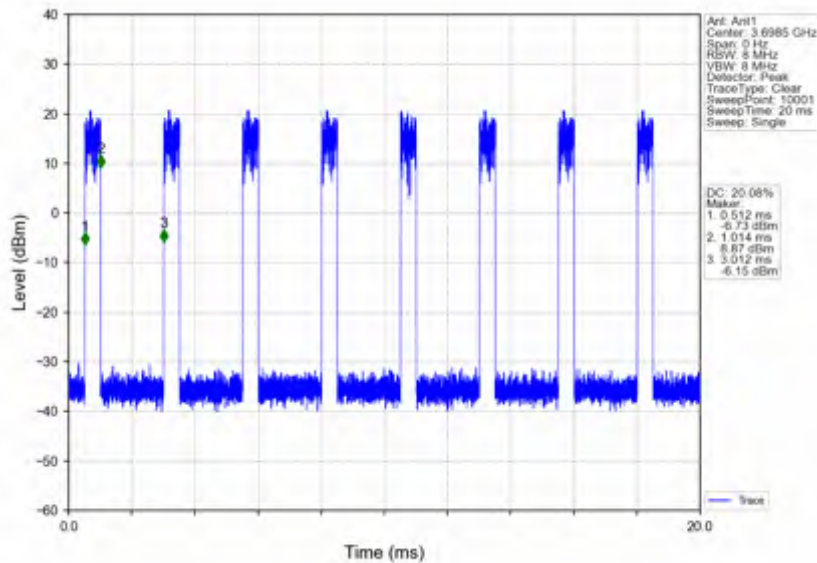
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3684.99MHz_Inner_1RB_Left



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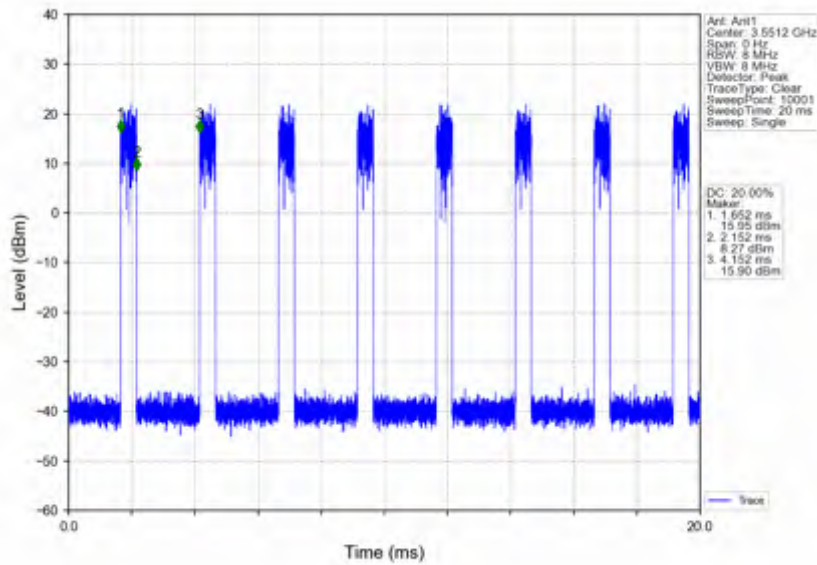


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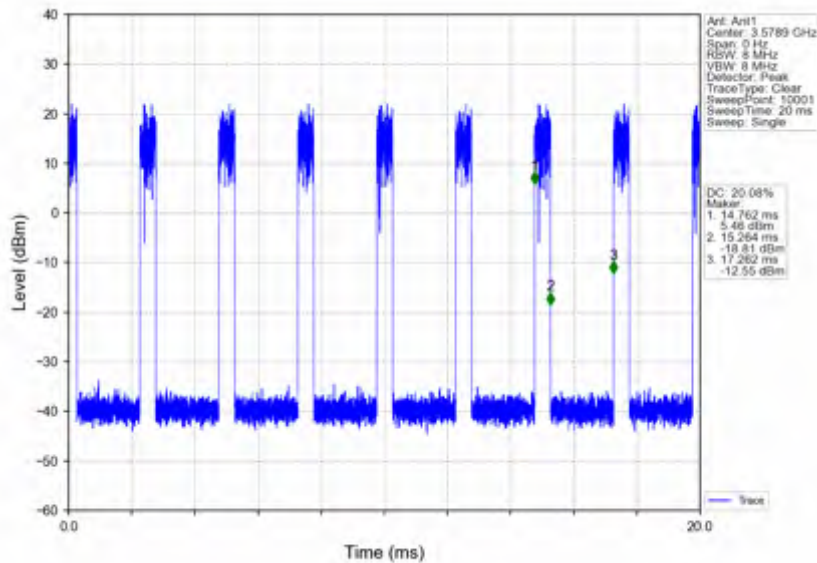
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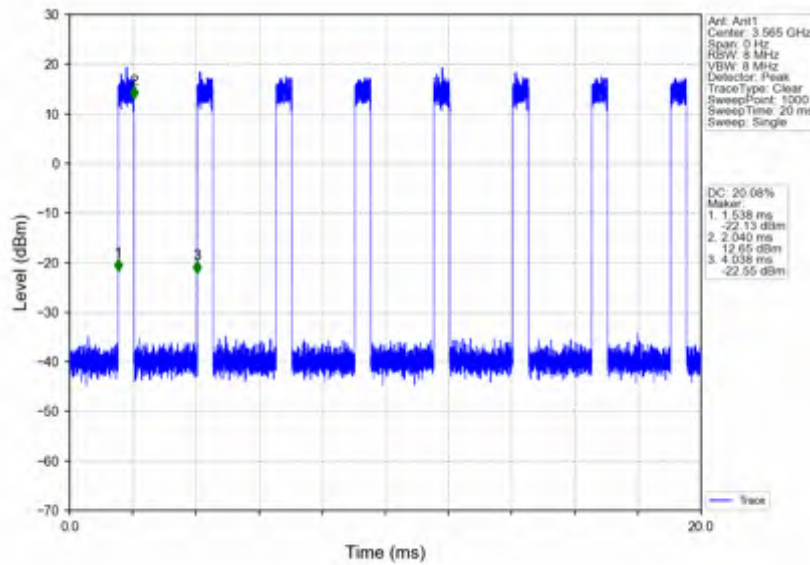


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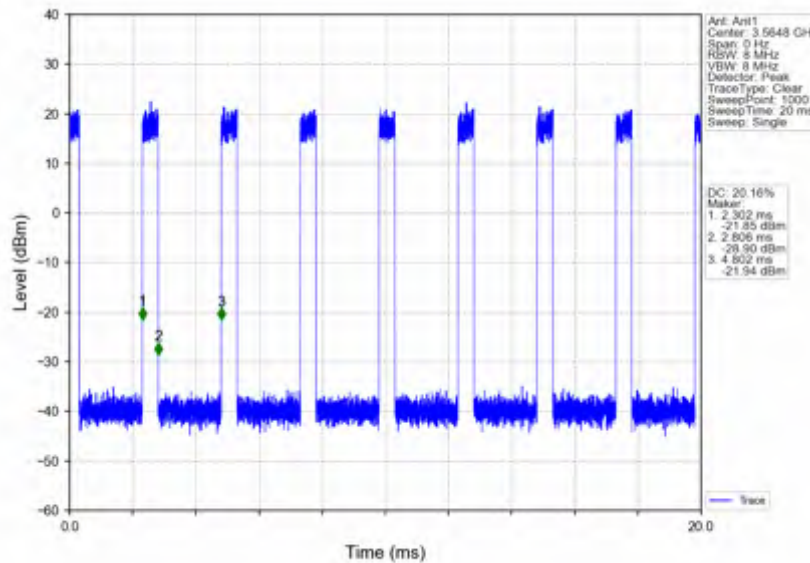
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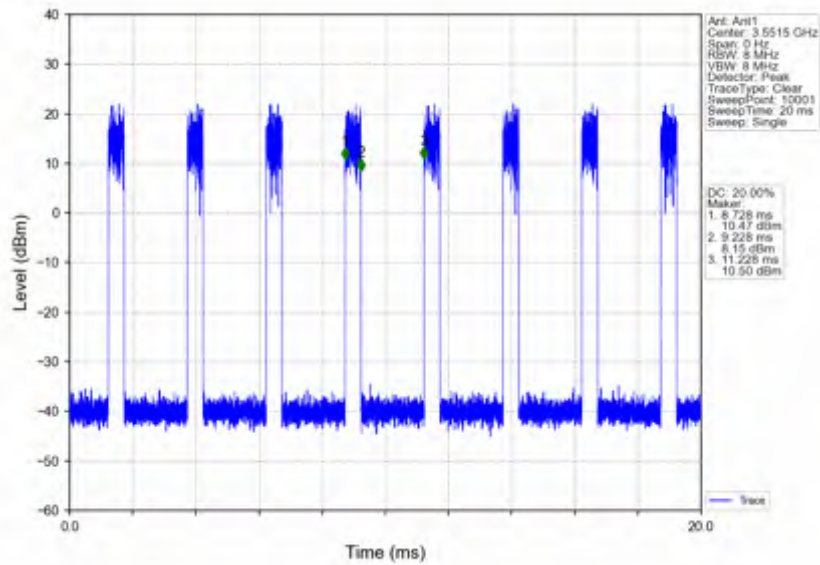
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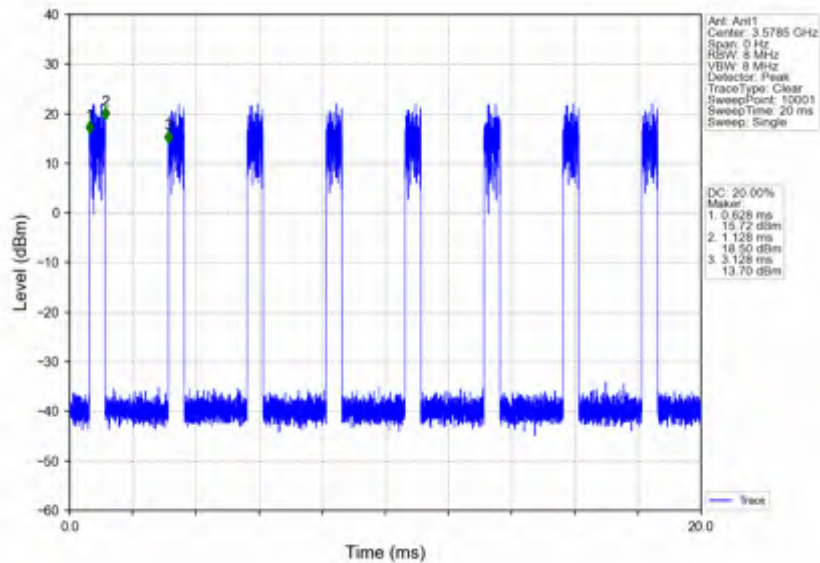
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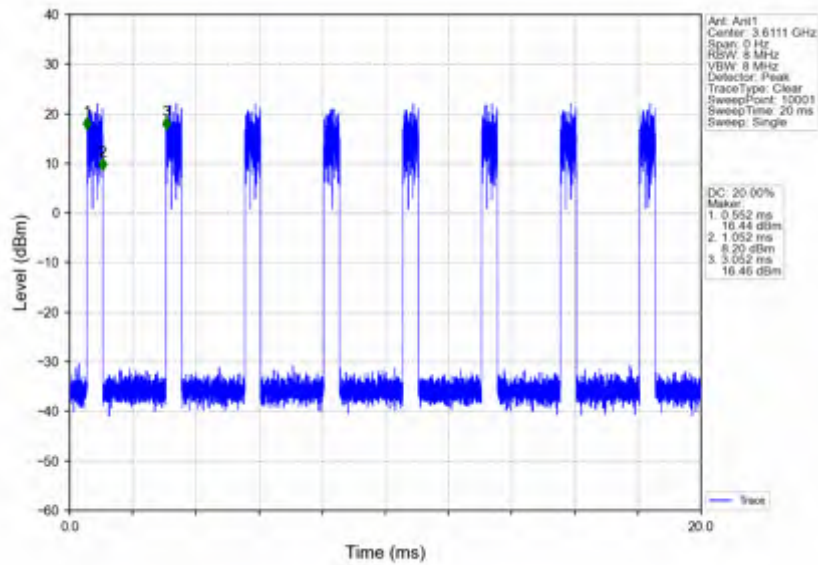
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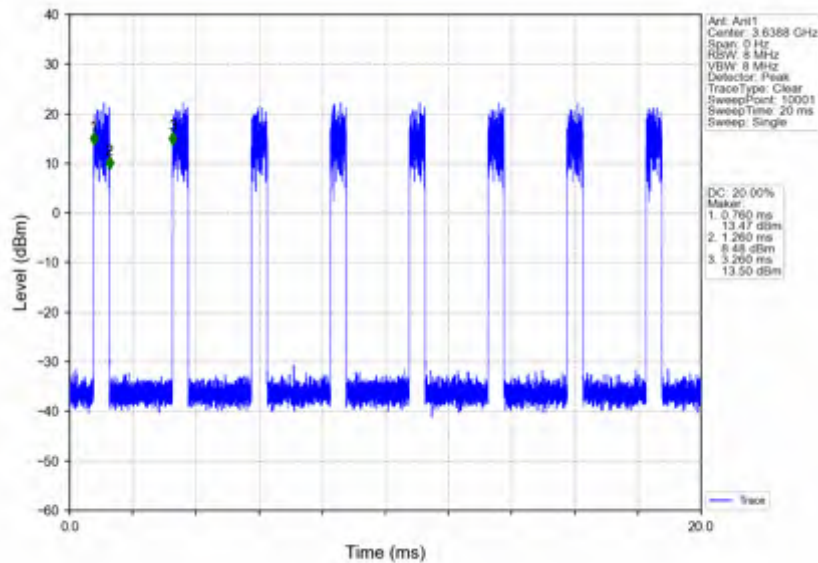
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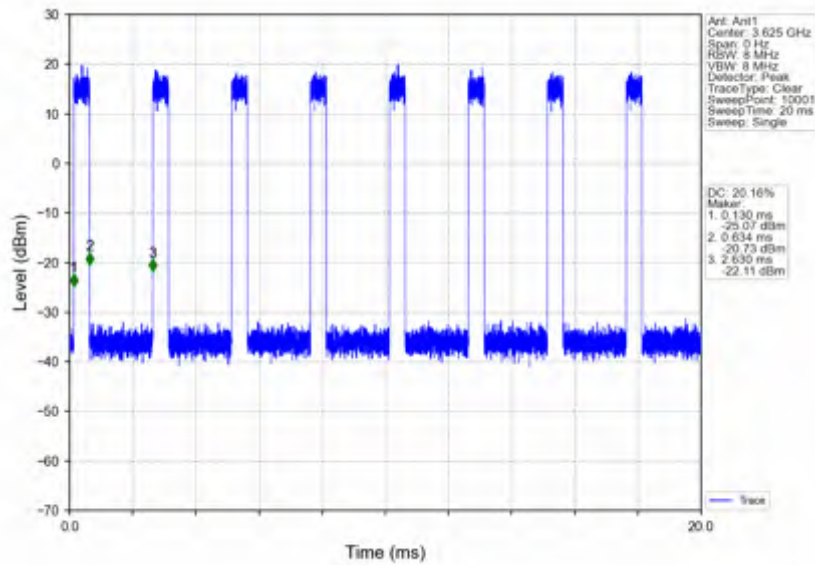
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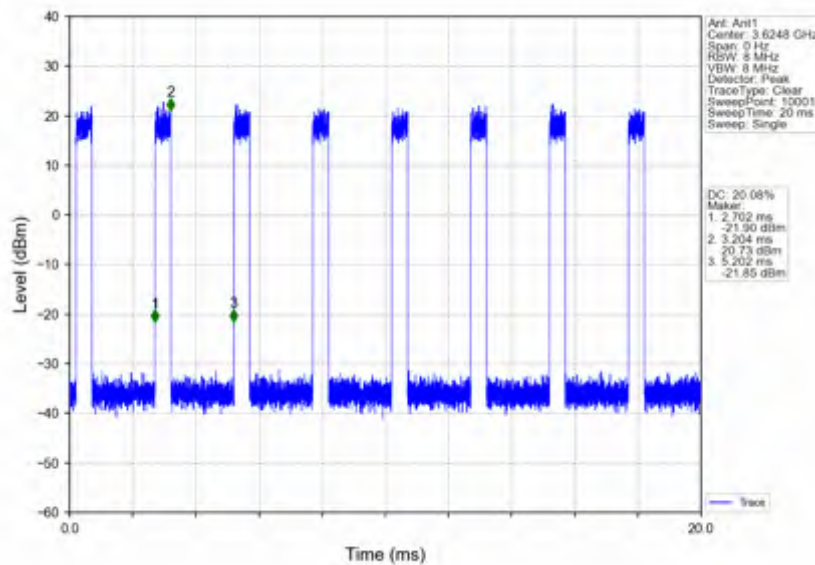
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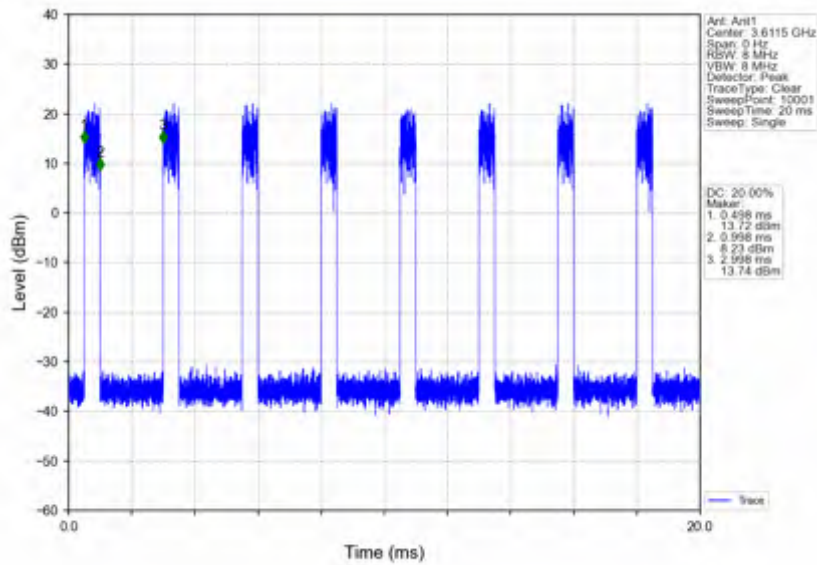
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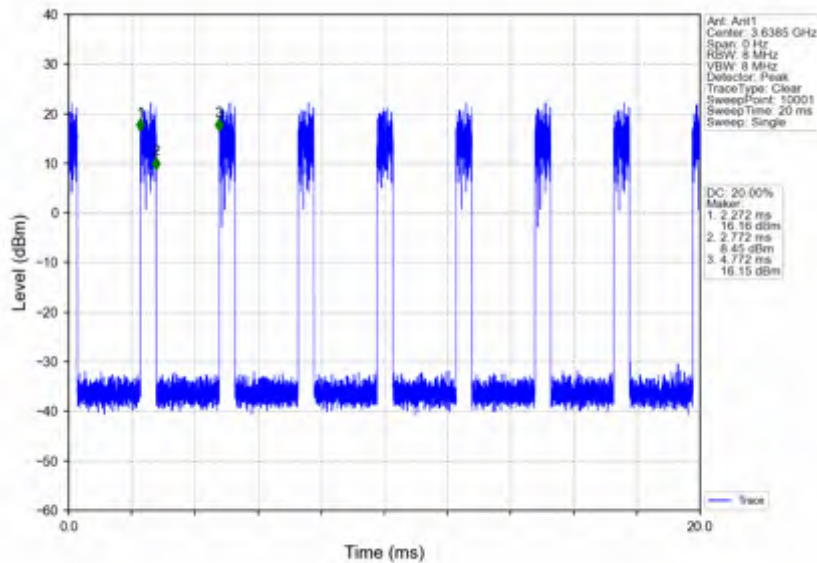
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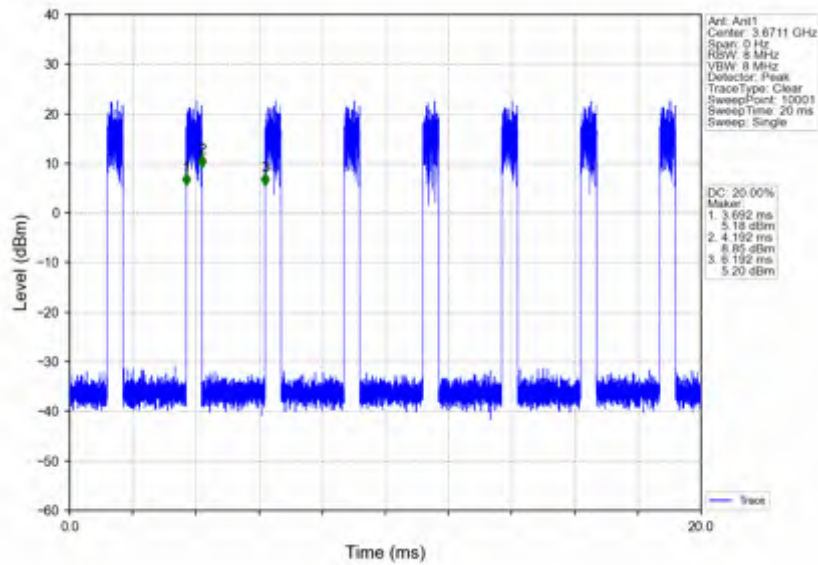


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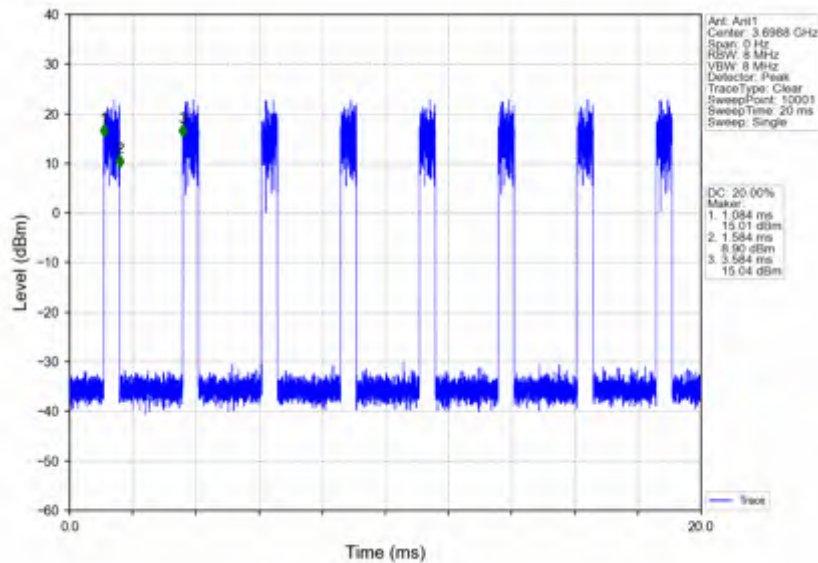
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n78d_30kHz_SISO_NTVV_30MHz_CP-OFDM QPSK_3684.99MHz_Edge_1RB_Left



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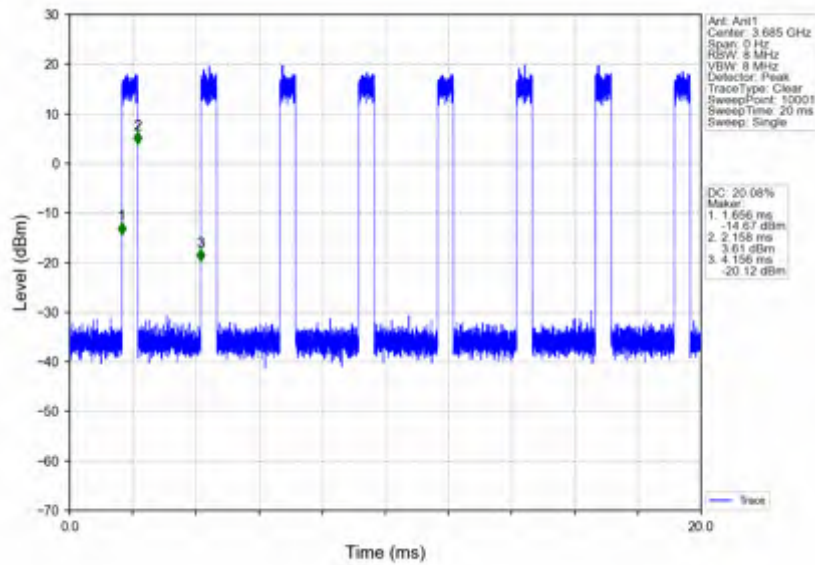
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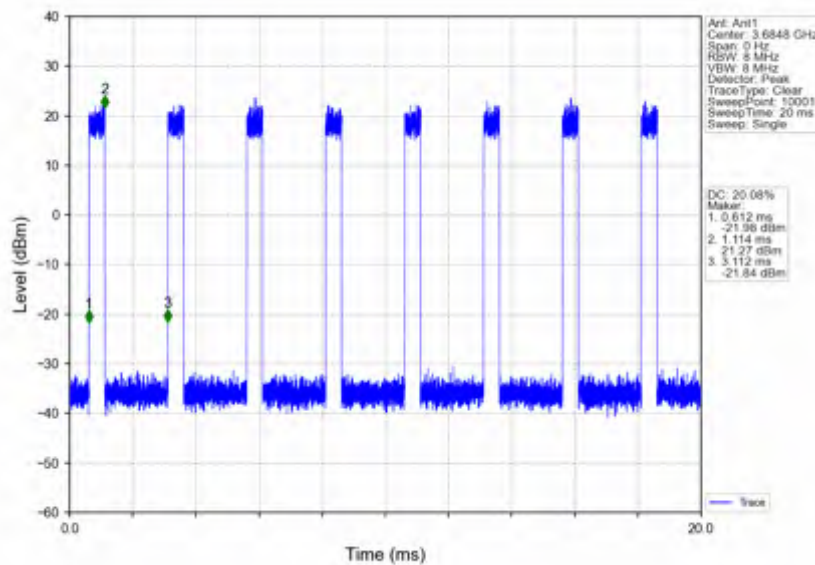
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3684.99MHz_Outer_Full



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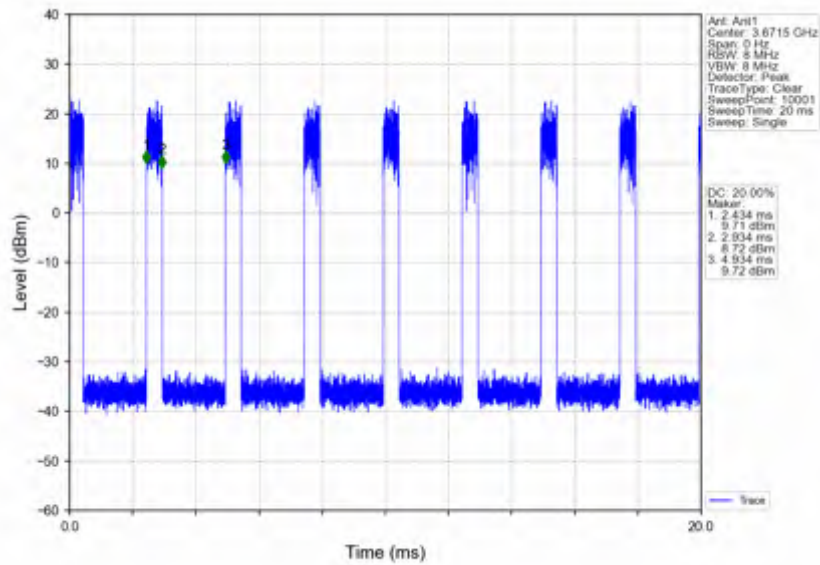


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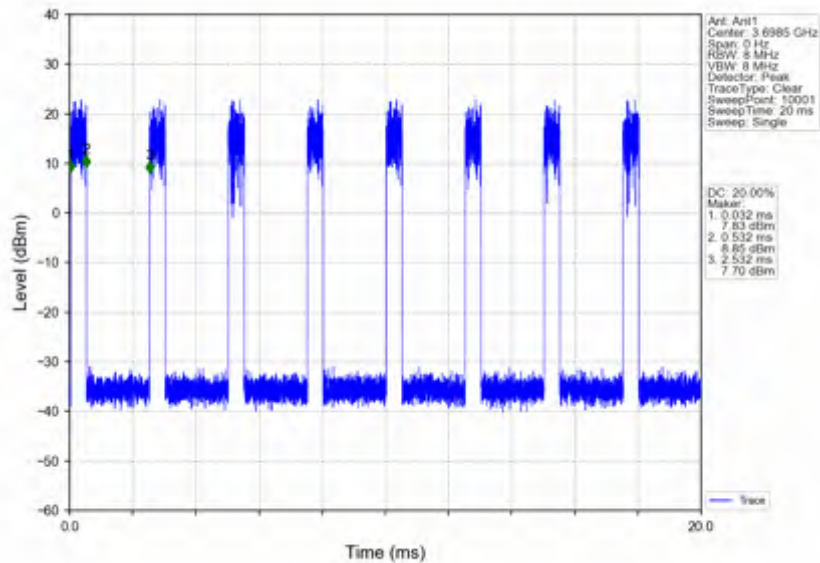
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3684.99MHz_Inner_1RB_Left



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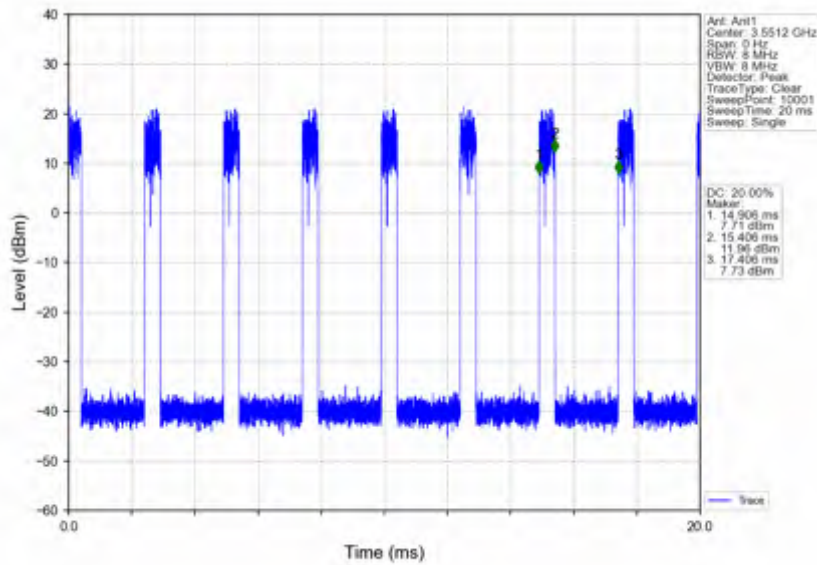


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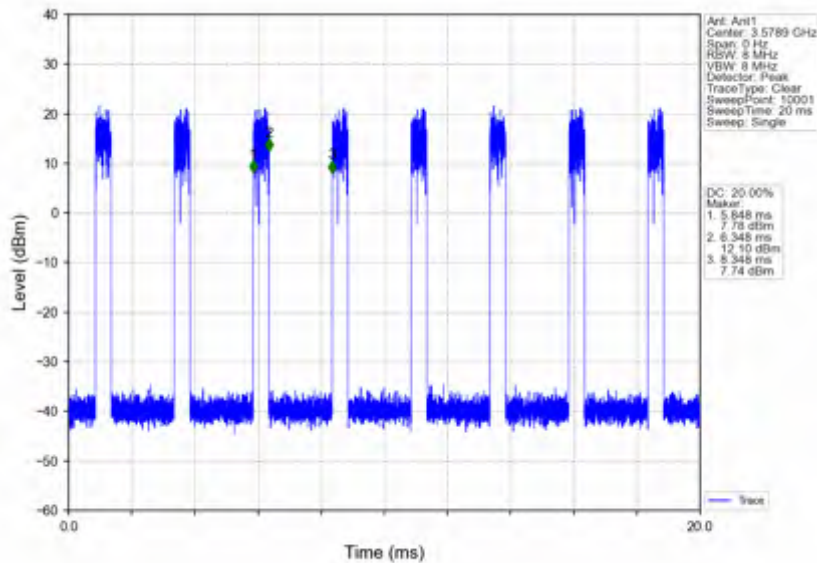
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3565.02MHz_Edge_1RB_Left



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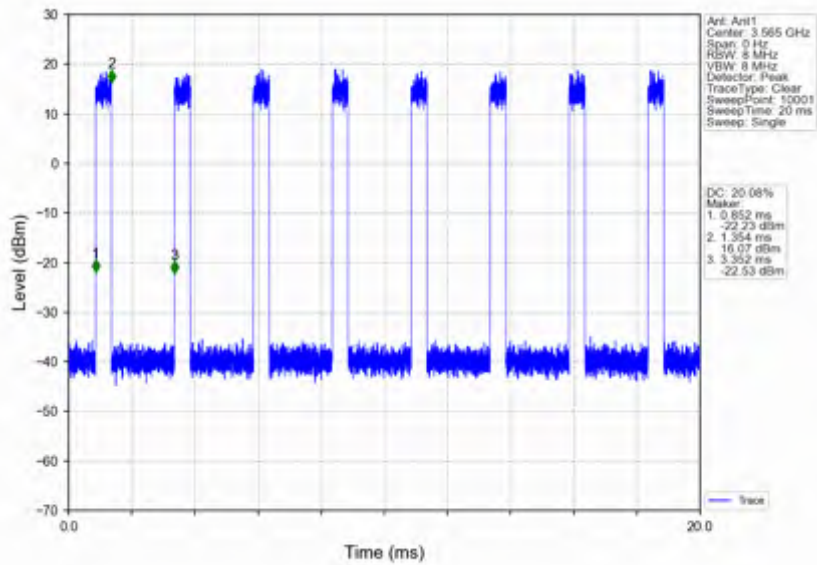


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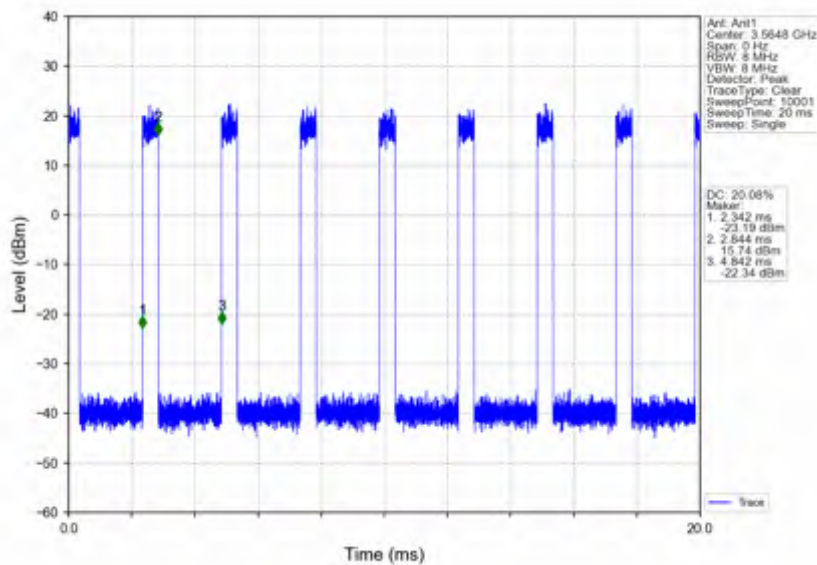
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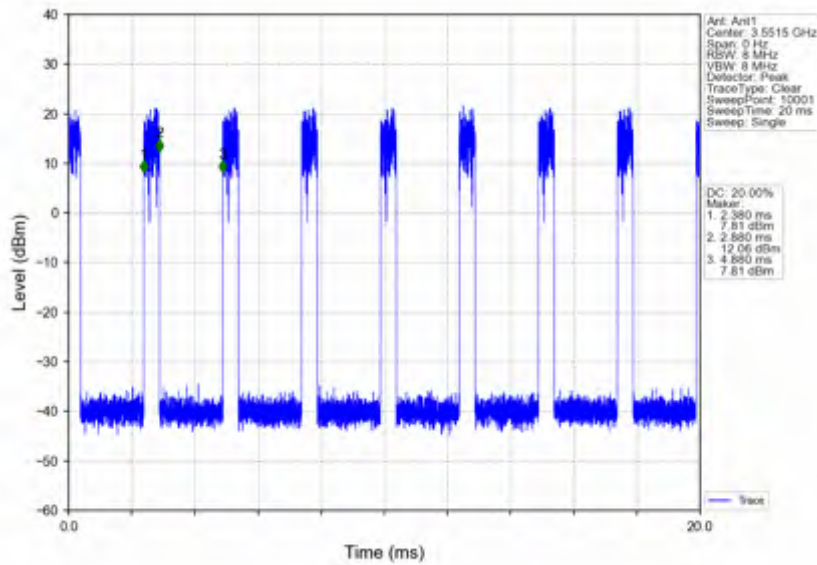
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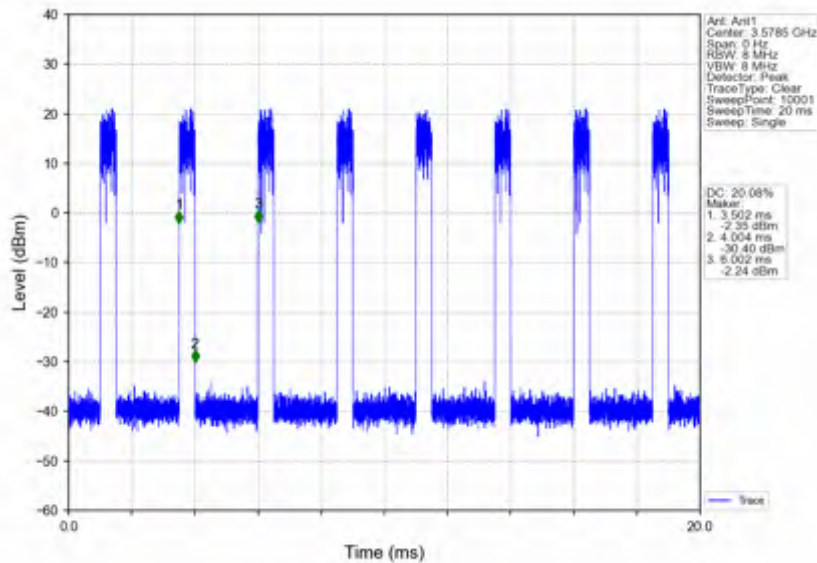
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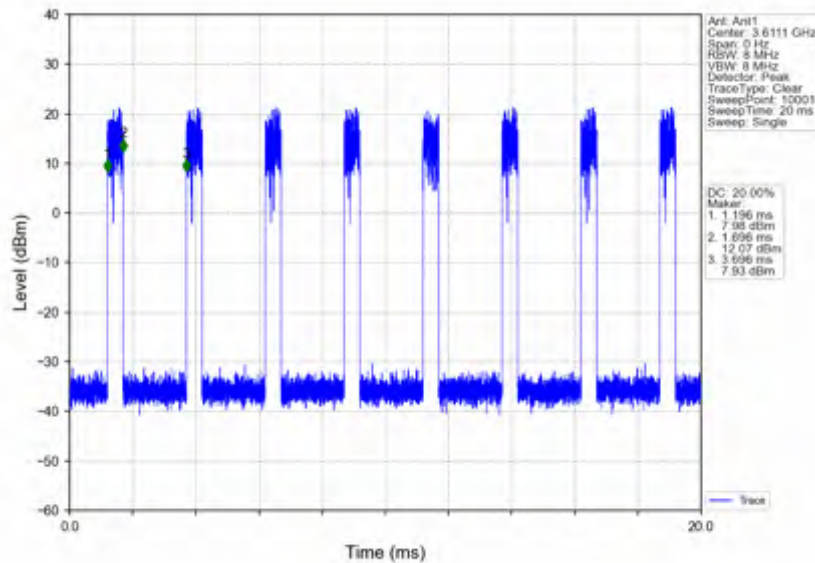


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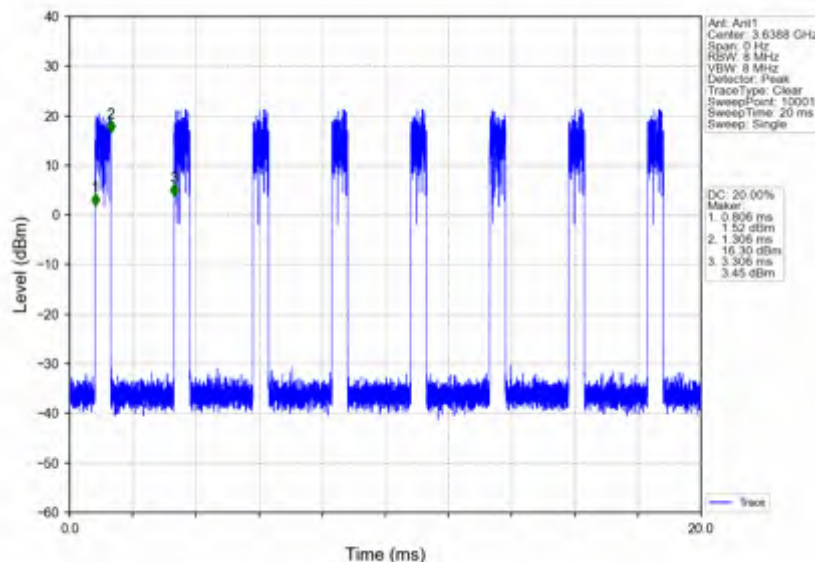
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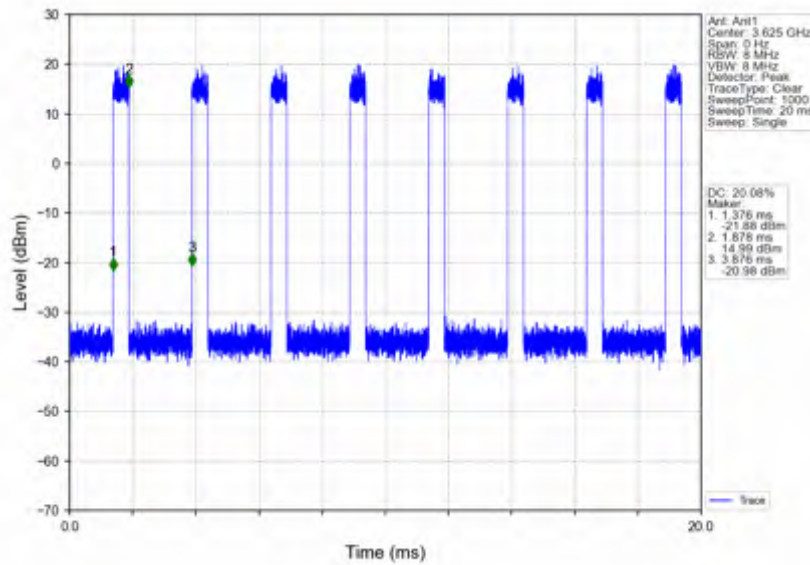


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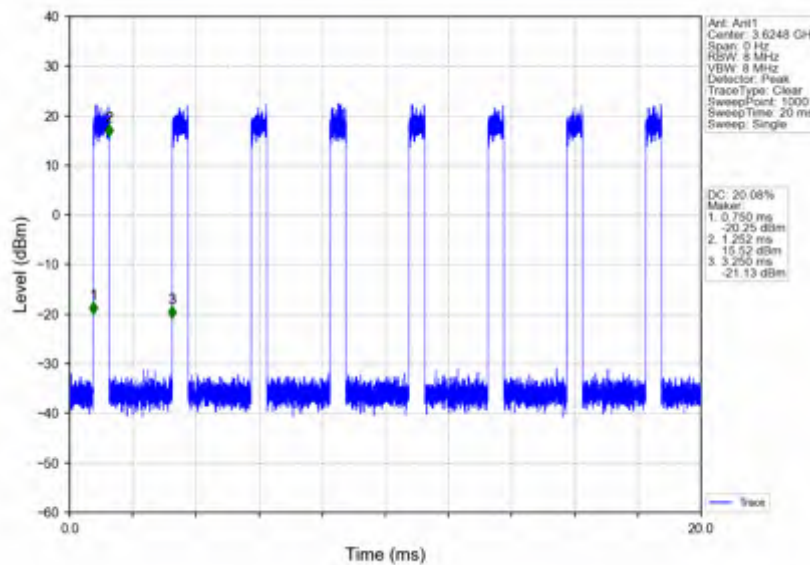
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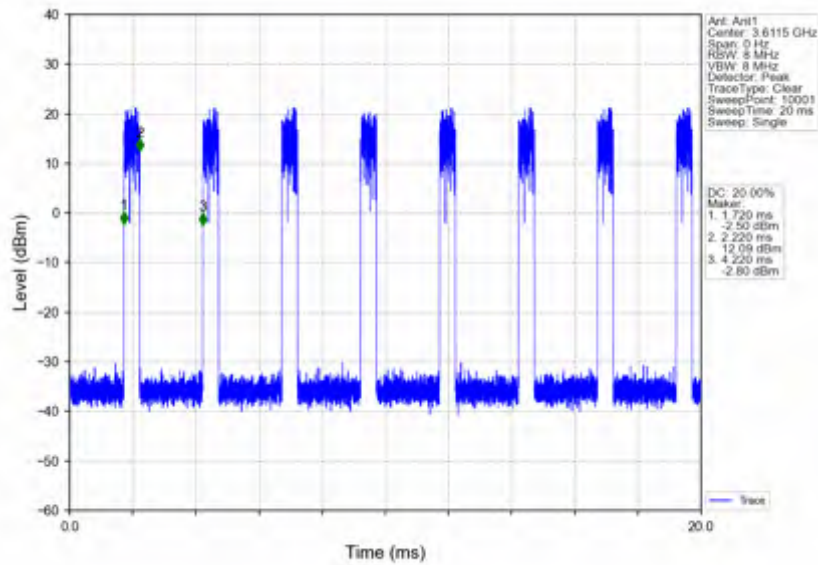
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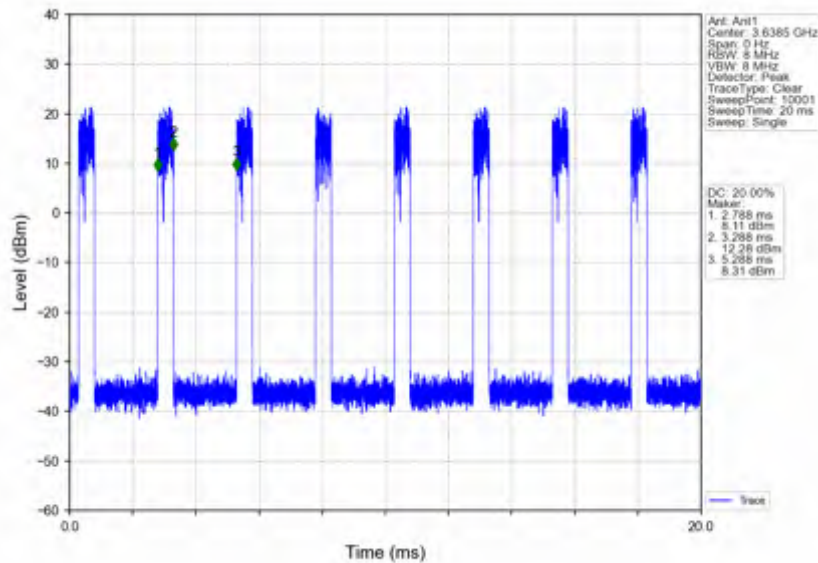
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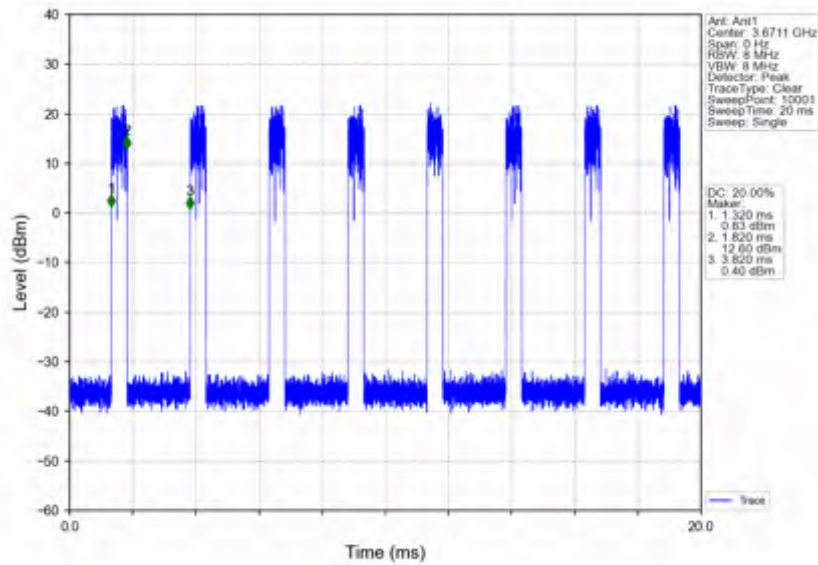


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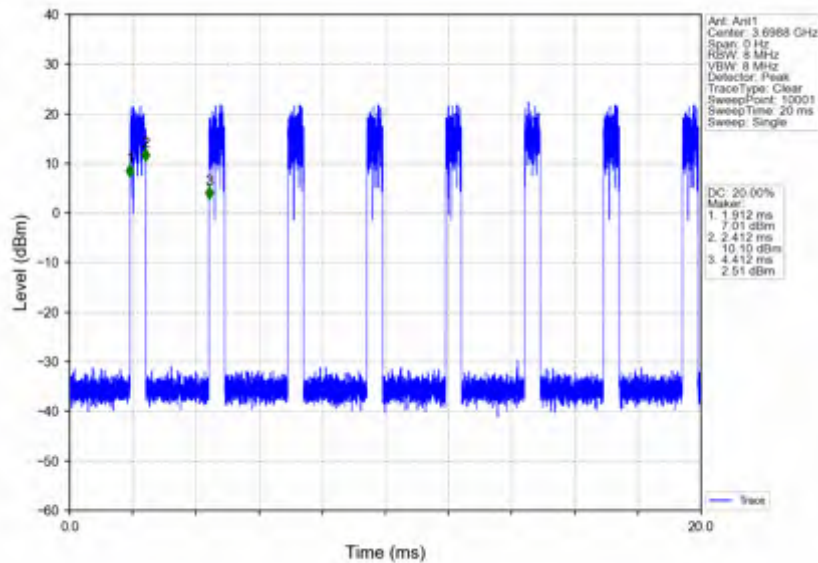
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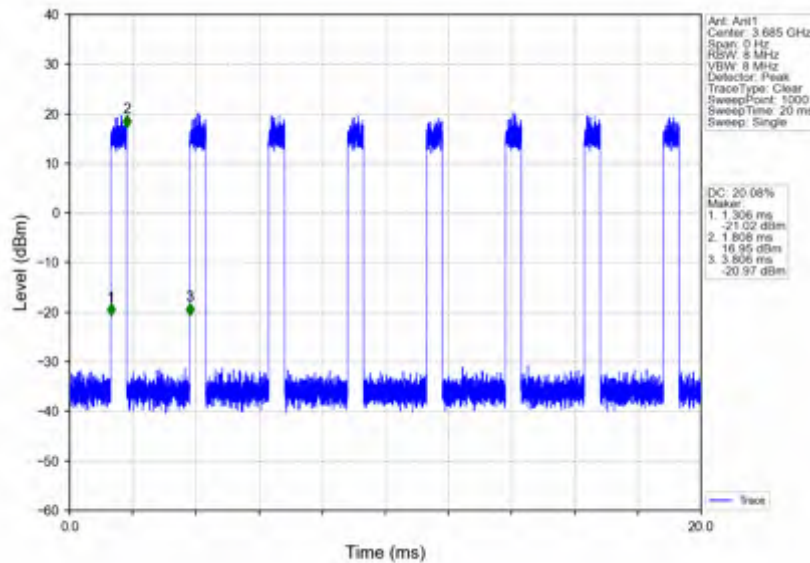


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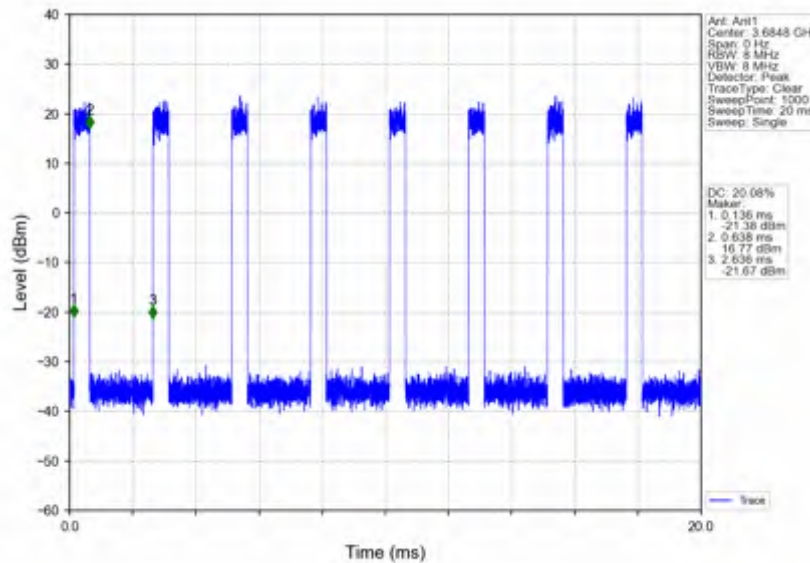
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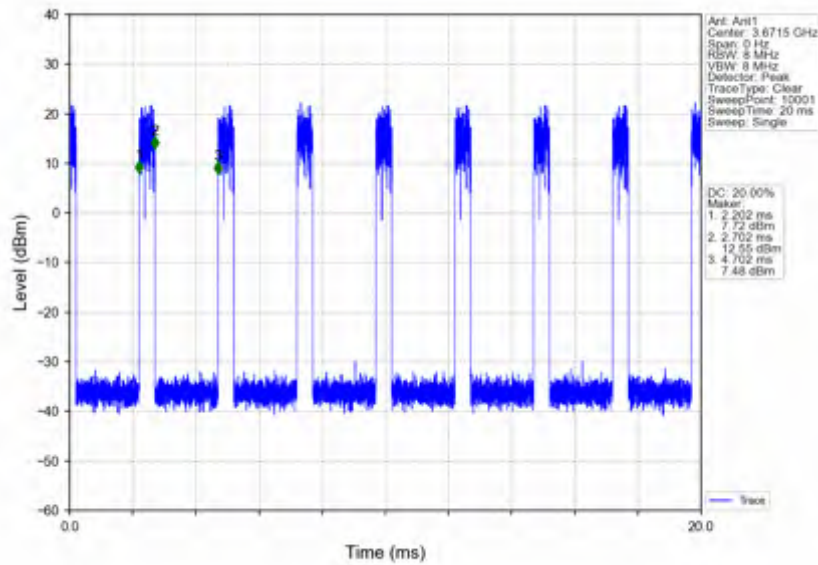
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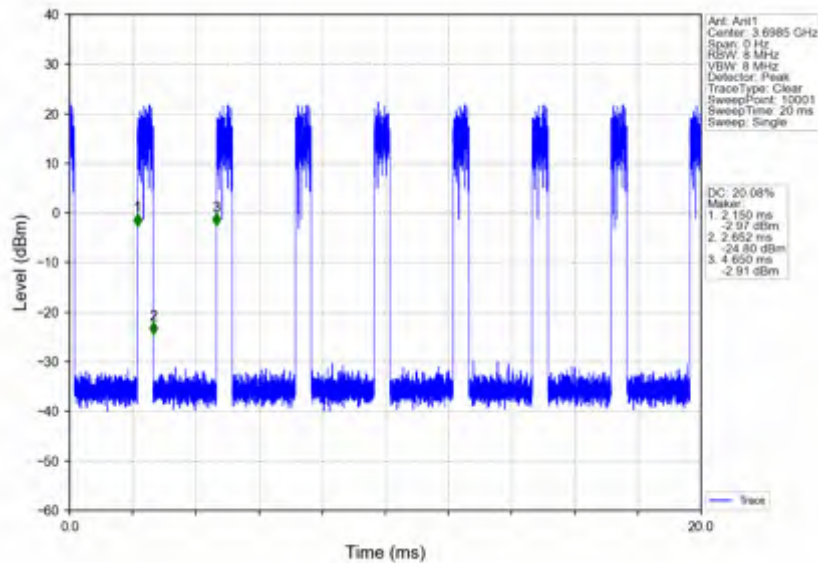
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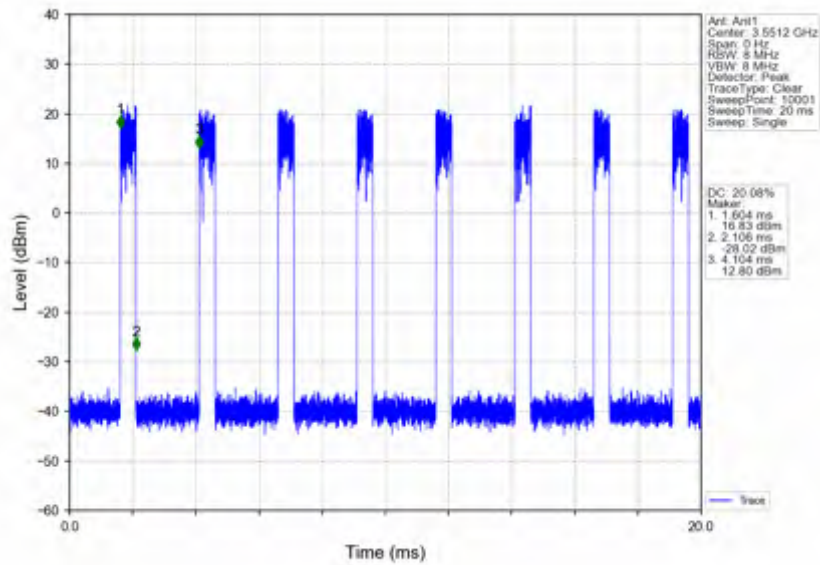


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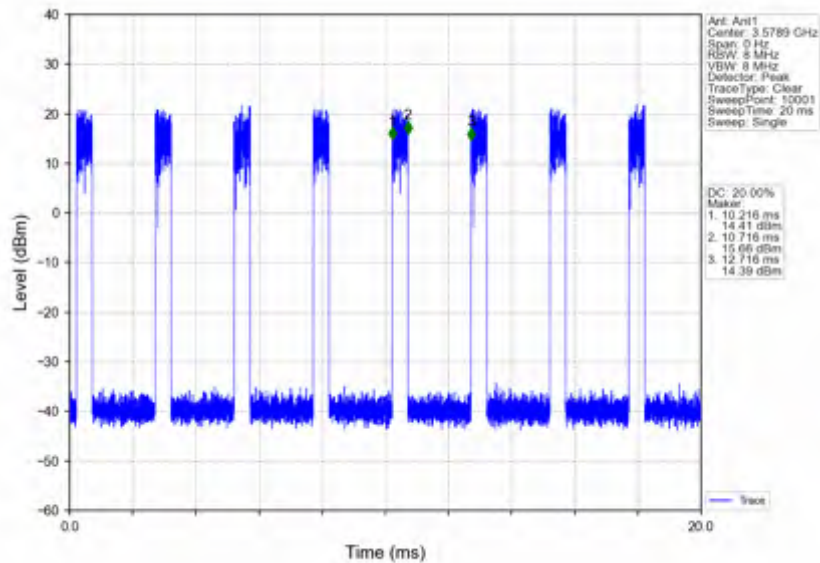
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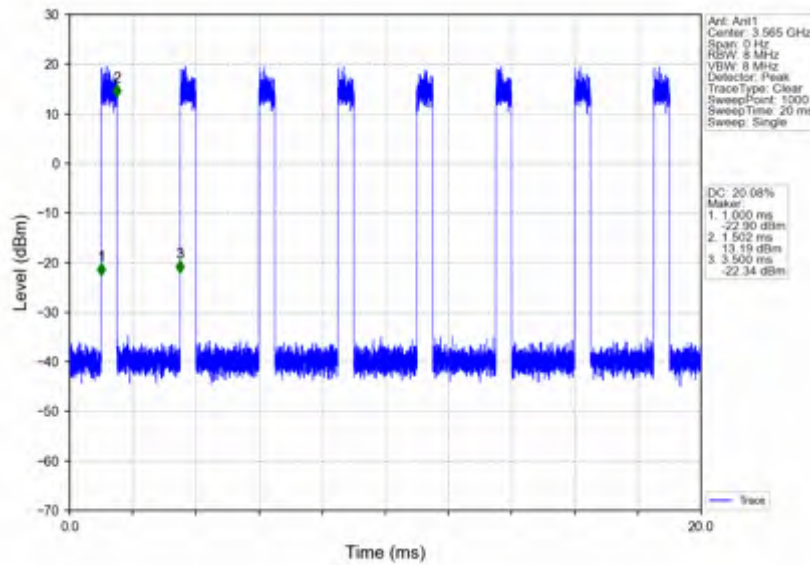


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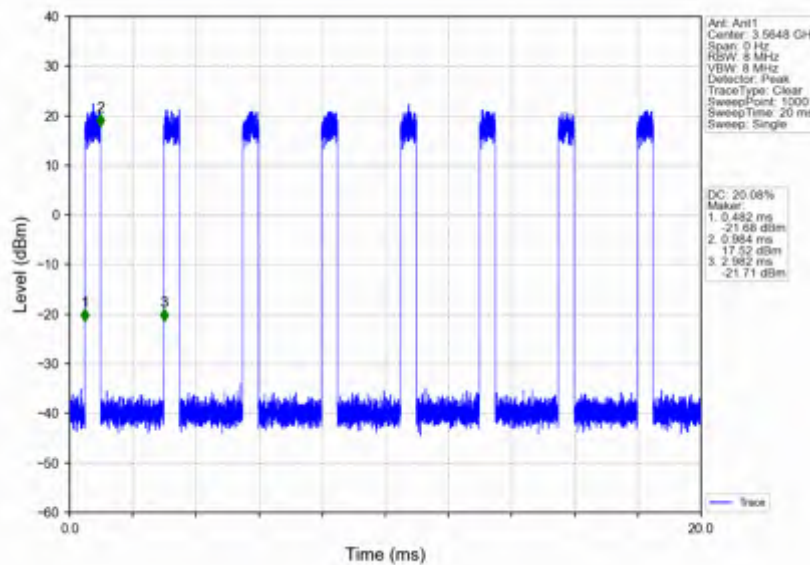
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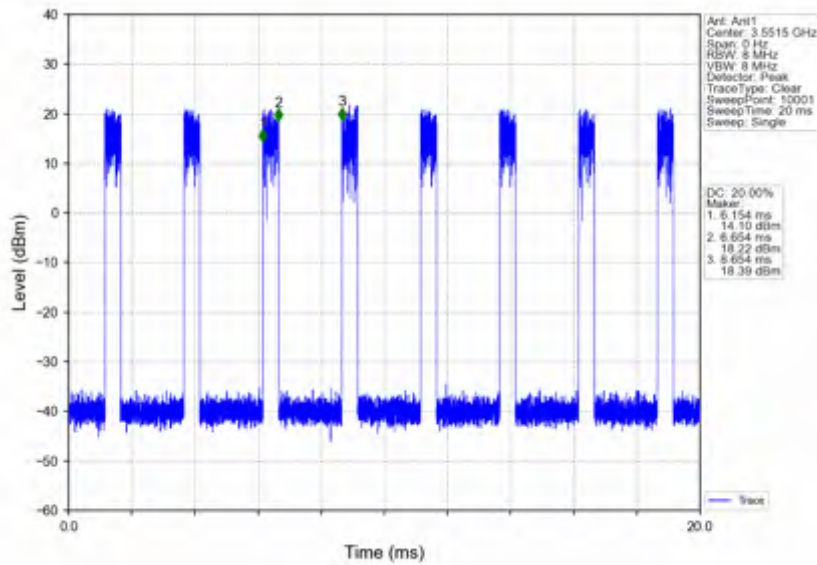
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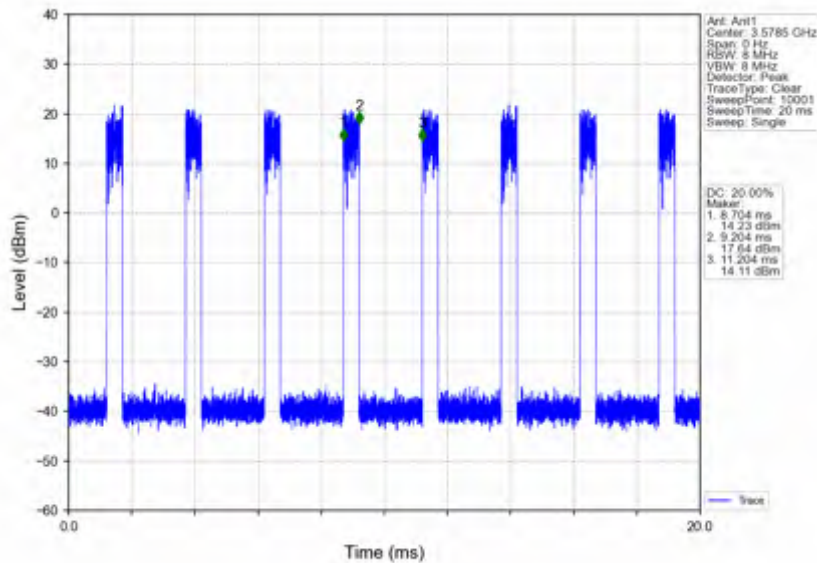
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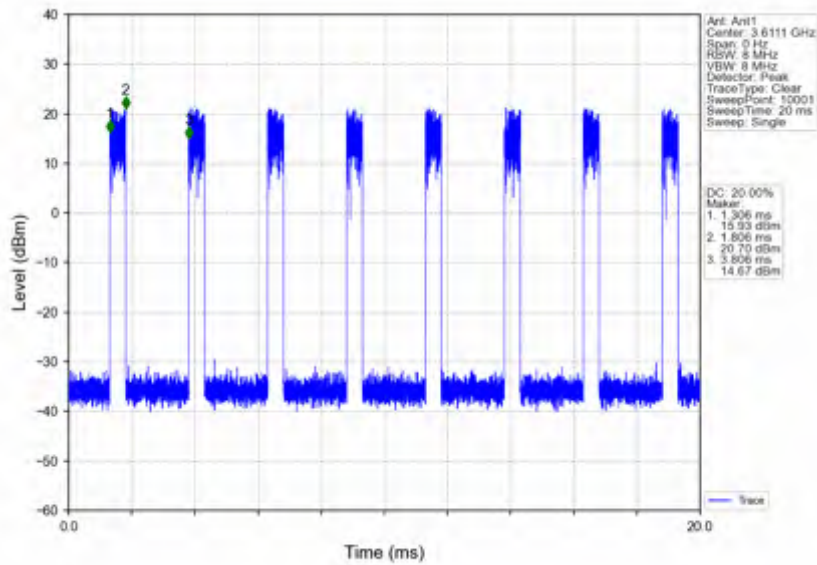


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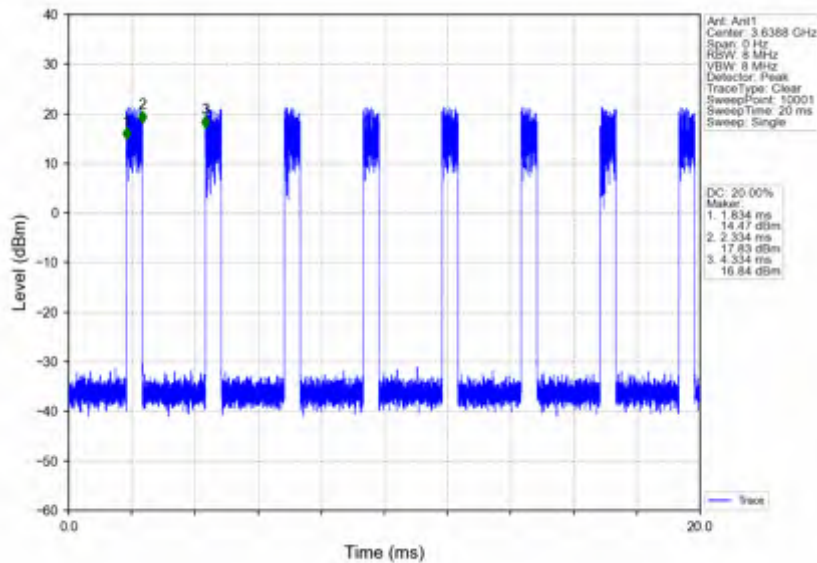
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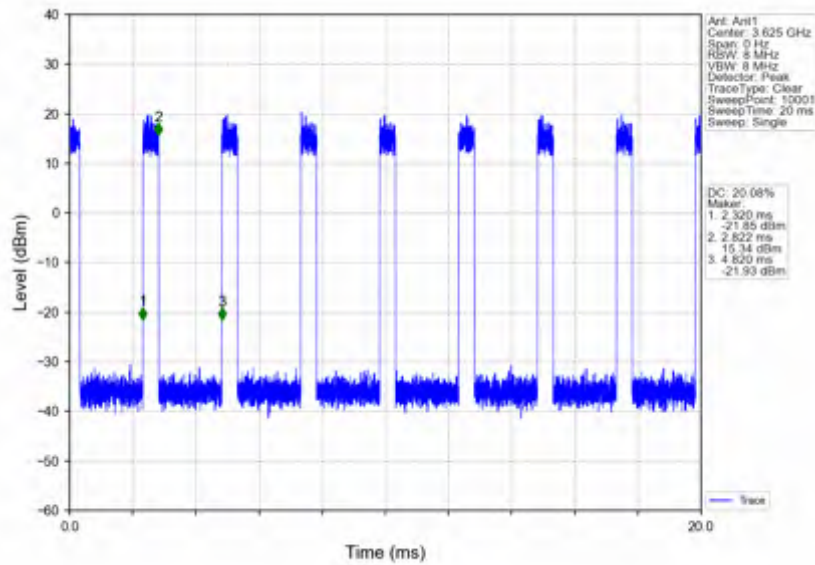
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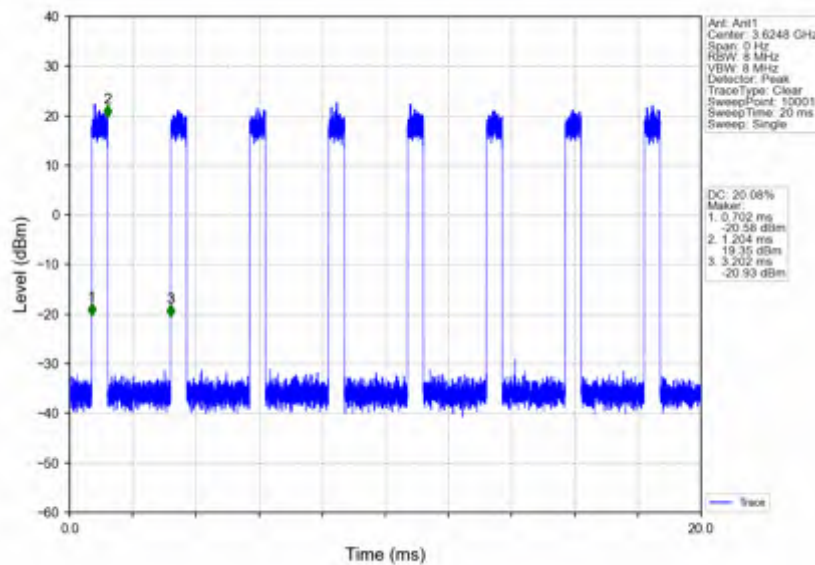
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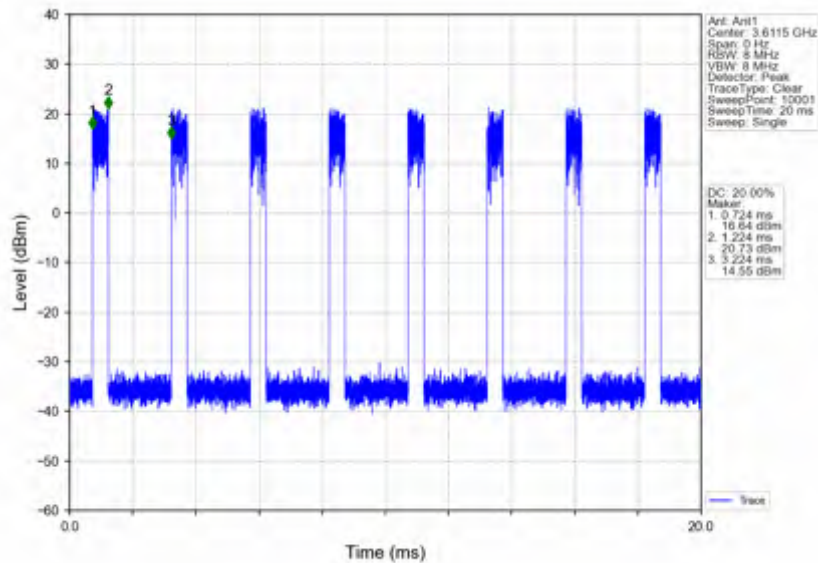
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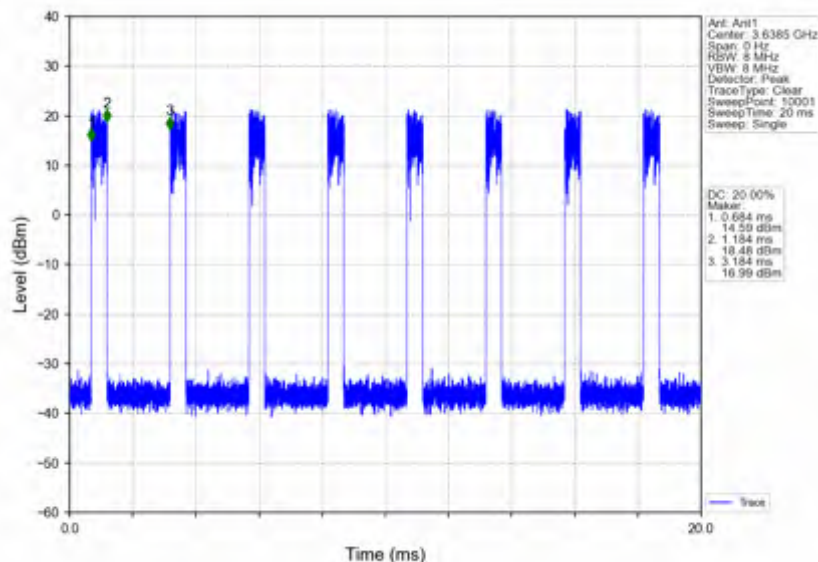
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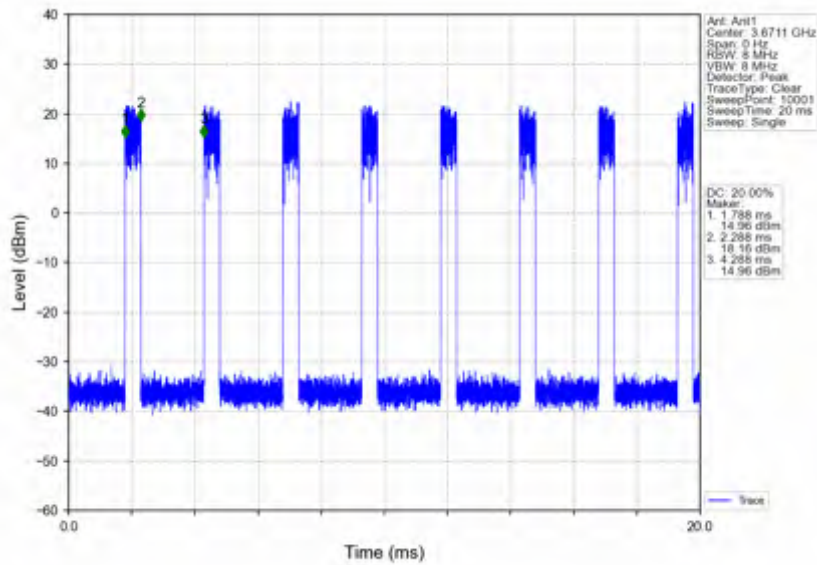


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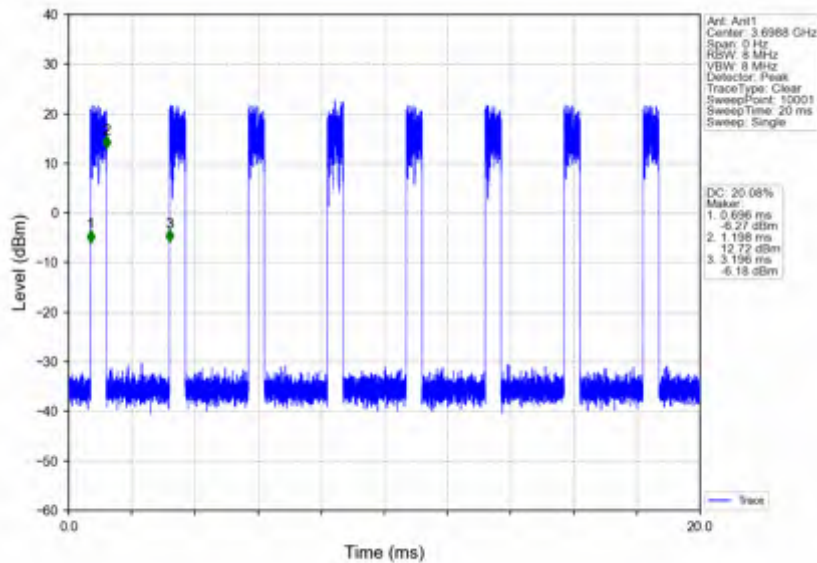
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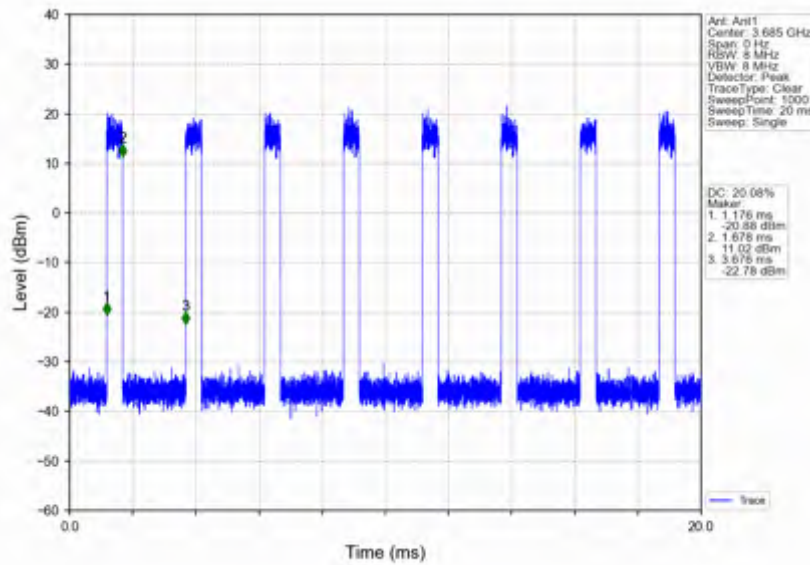


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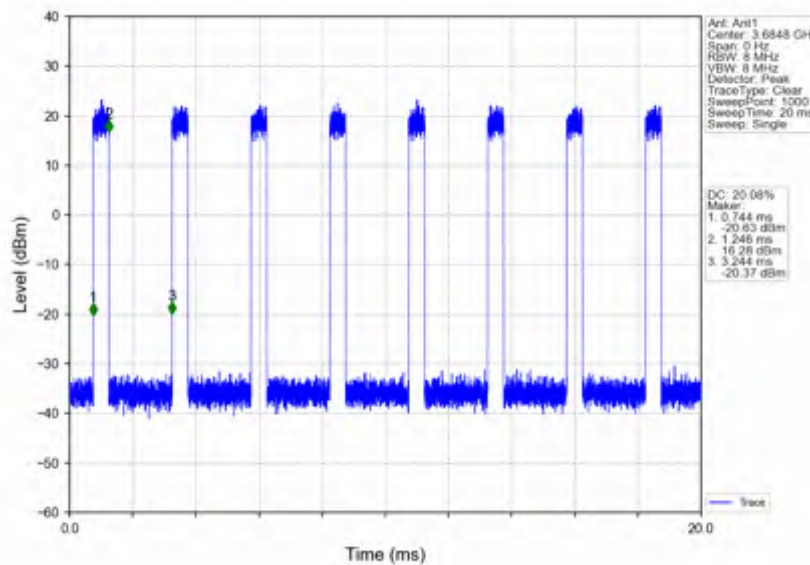
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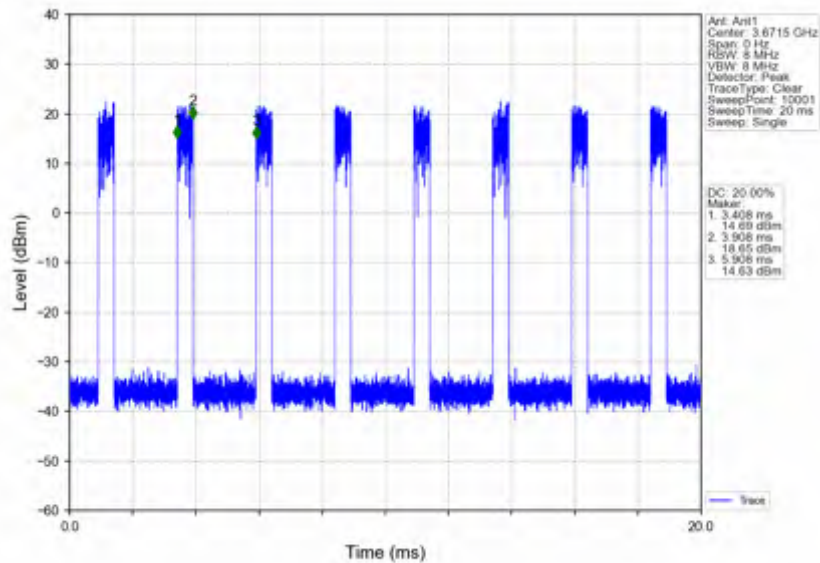


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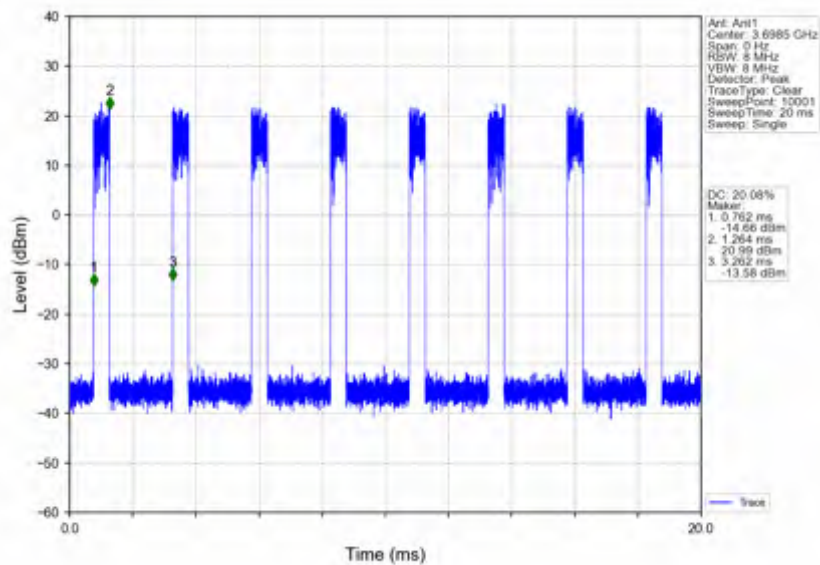
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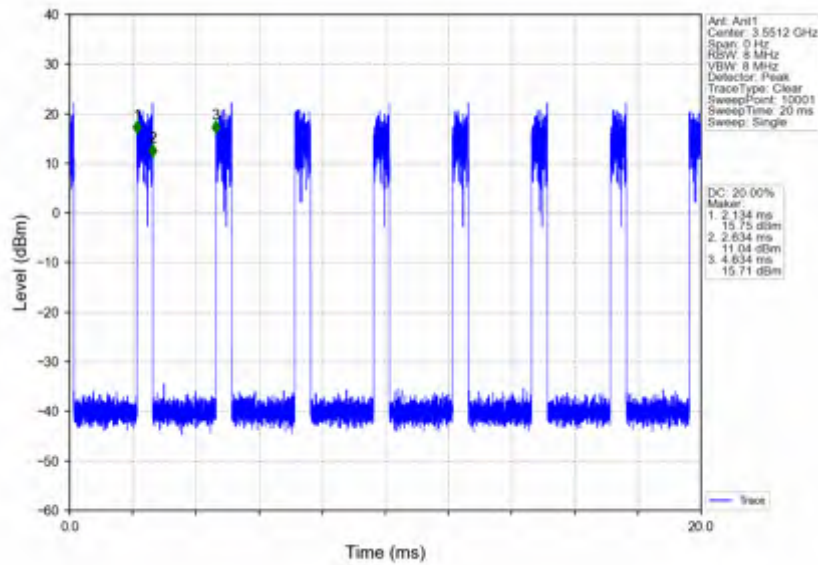


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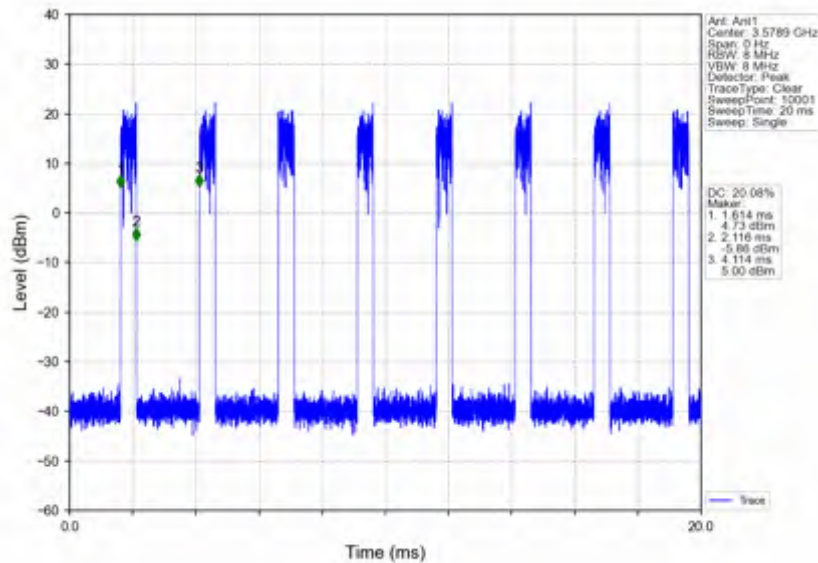
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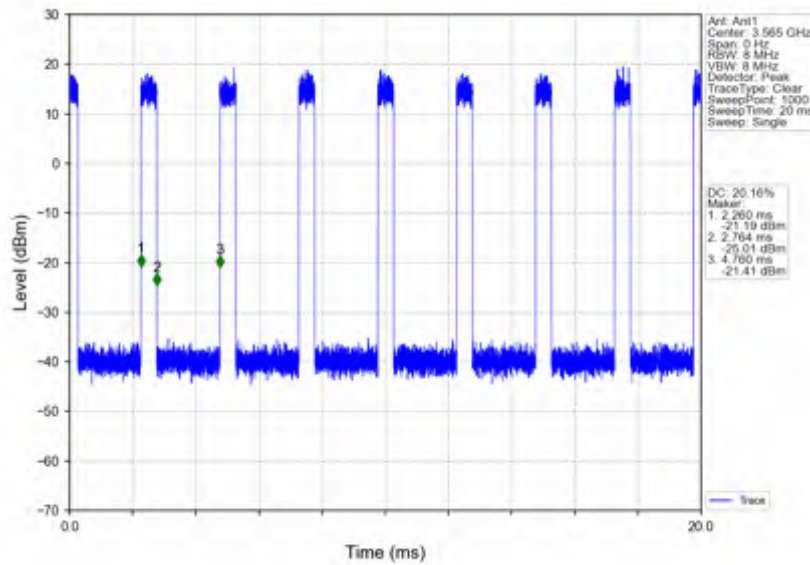


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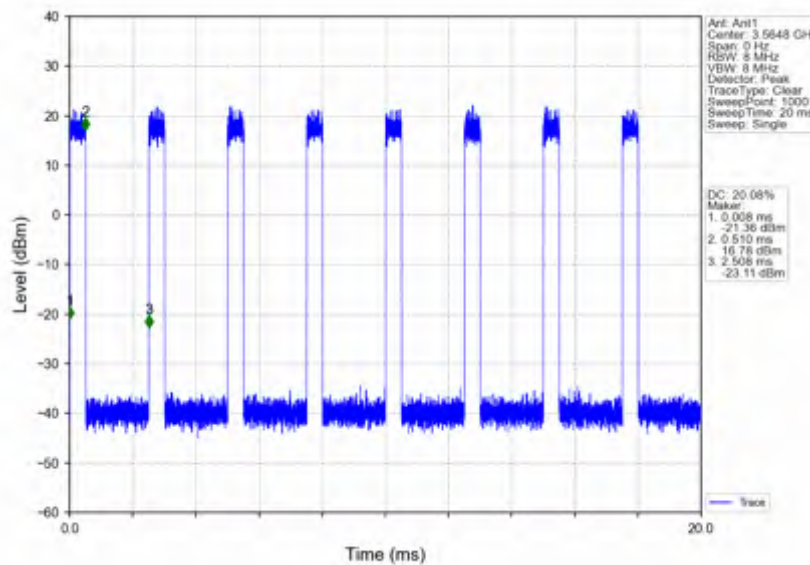
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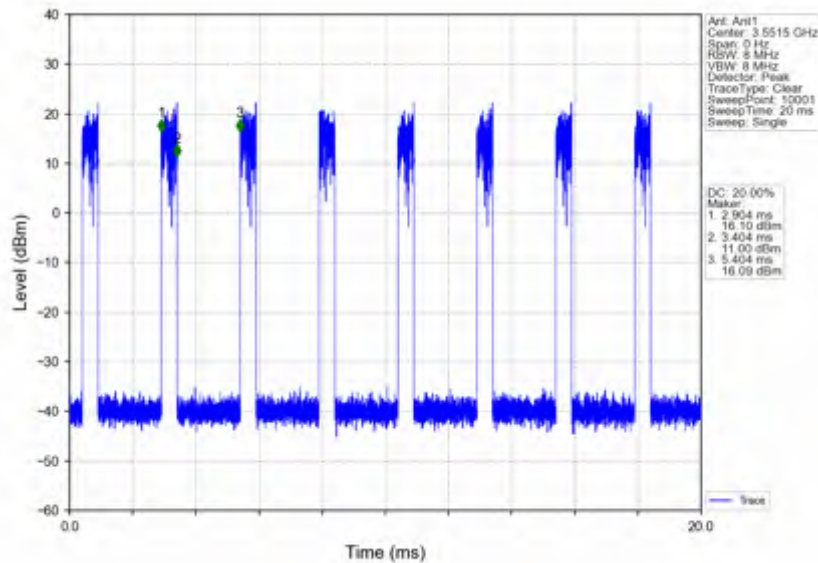


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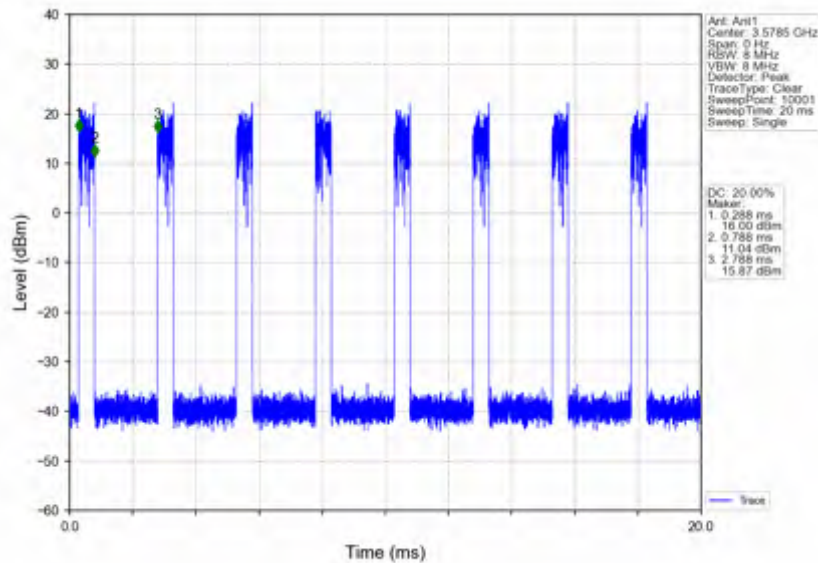
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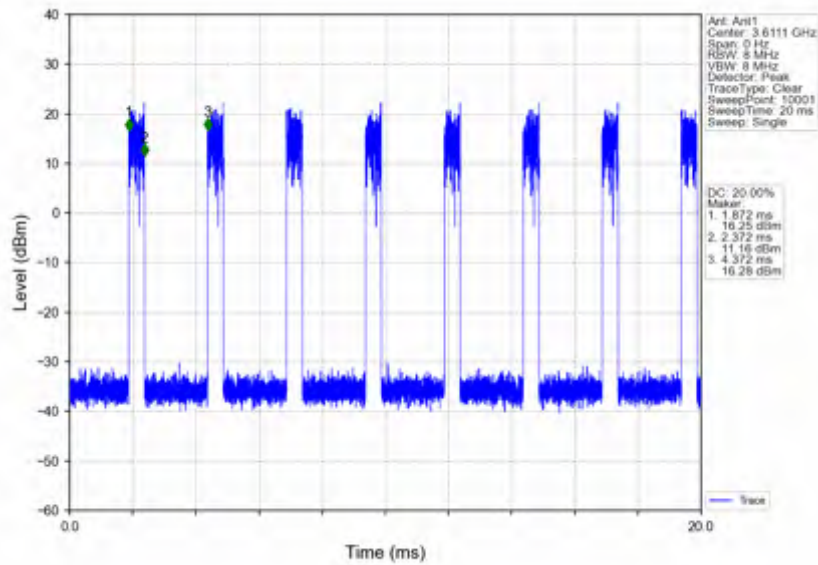


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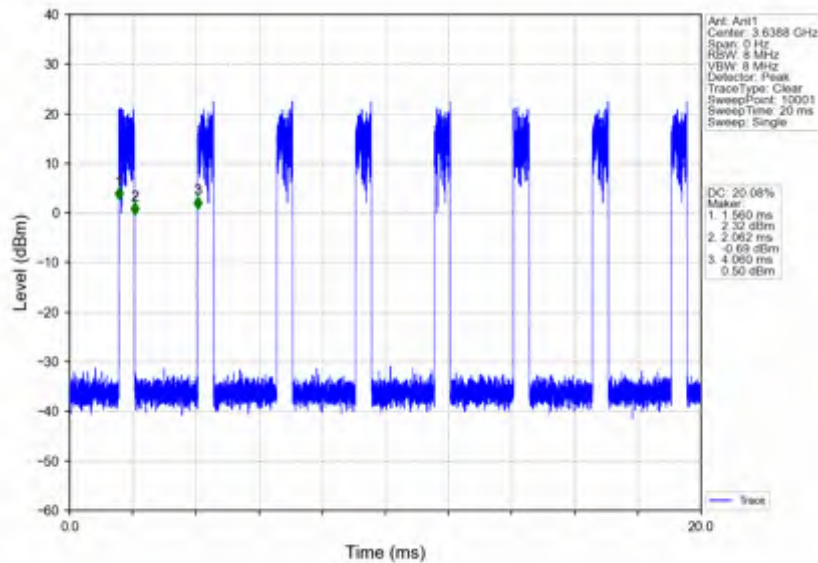
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Right

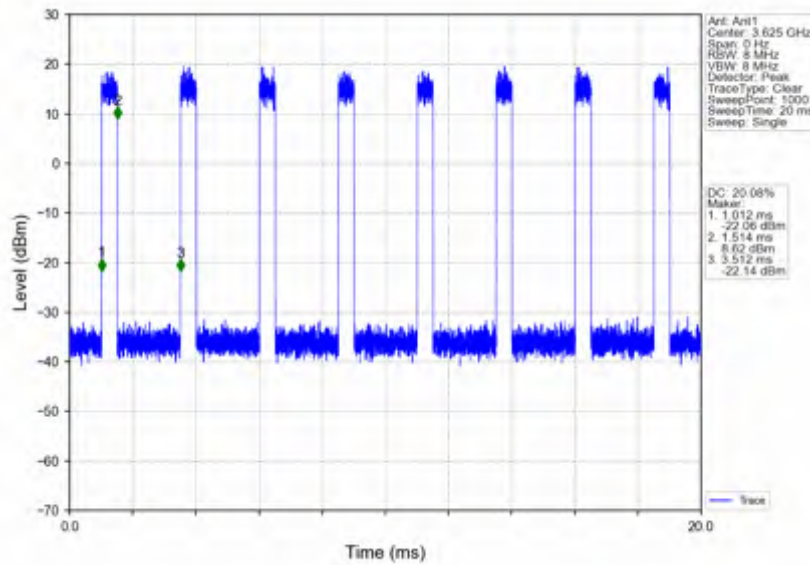


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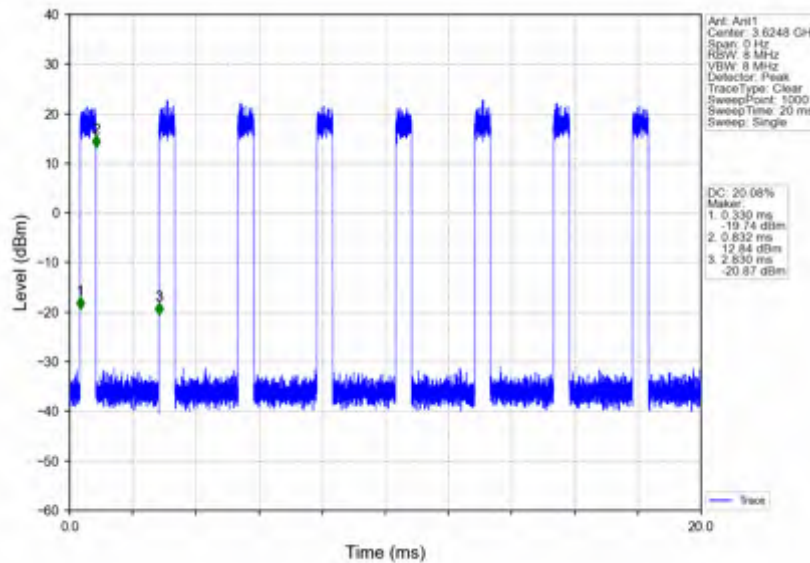
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full



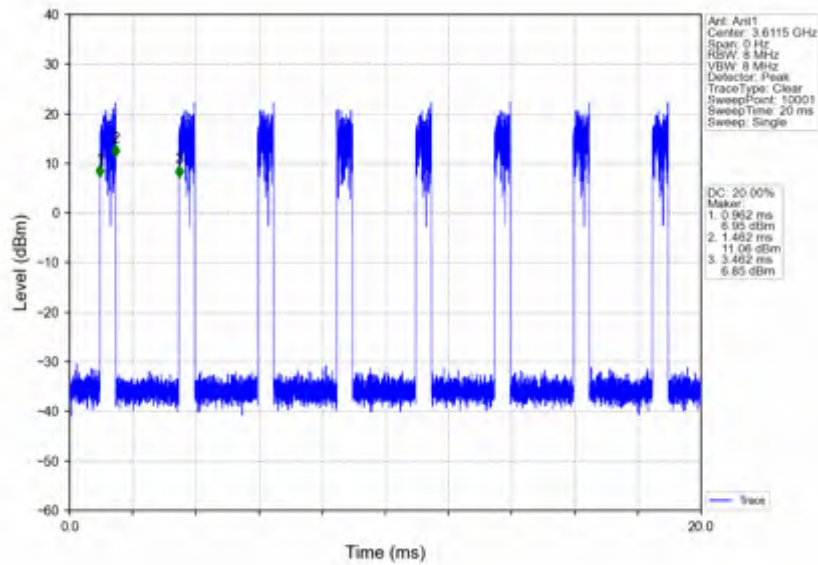
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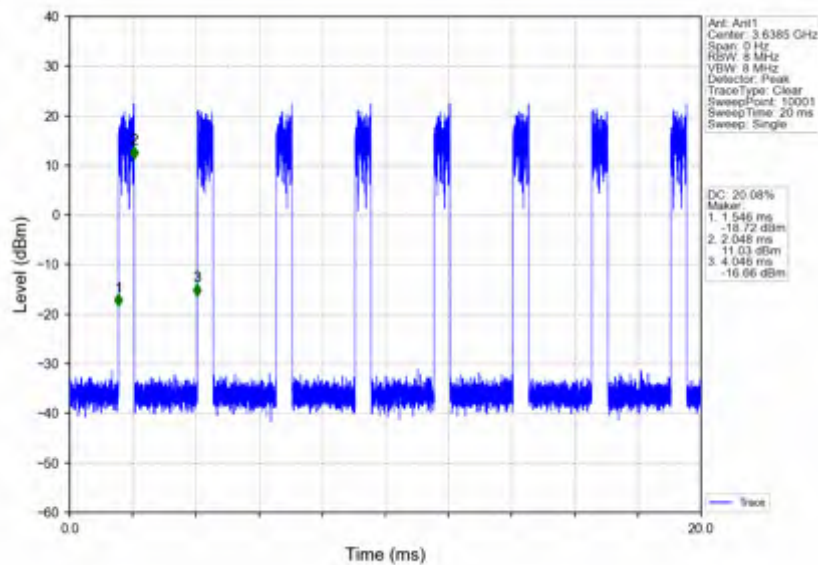
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Right

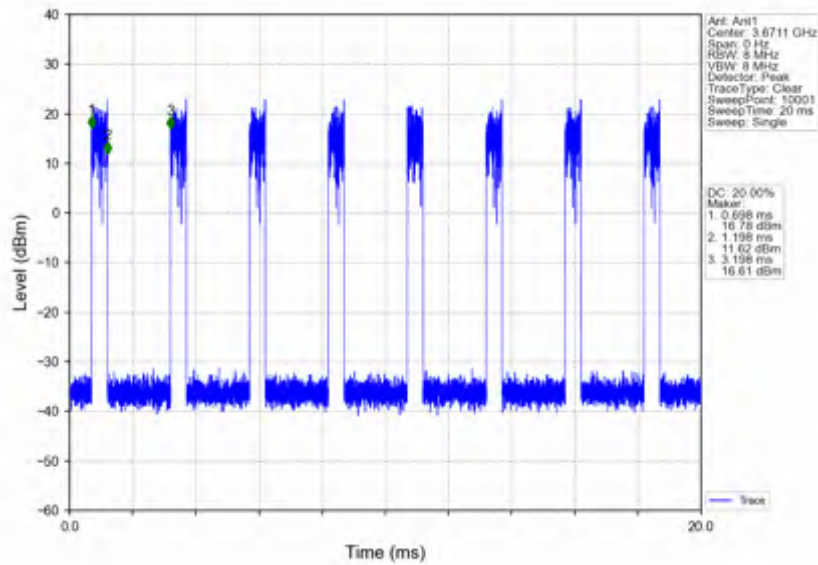


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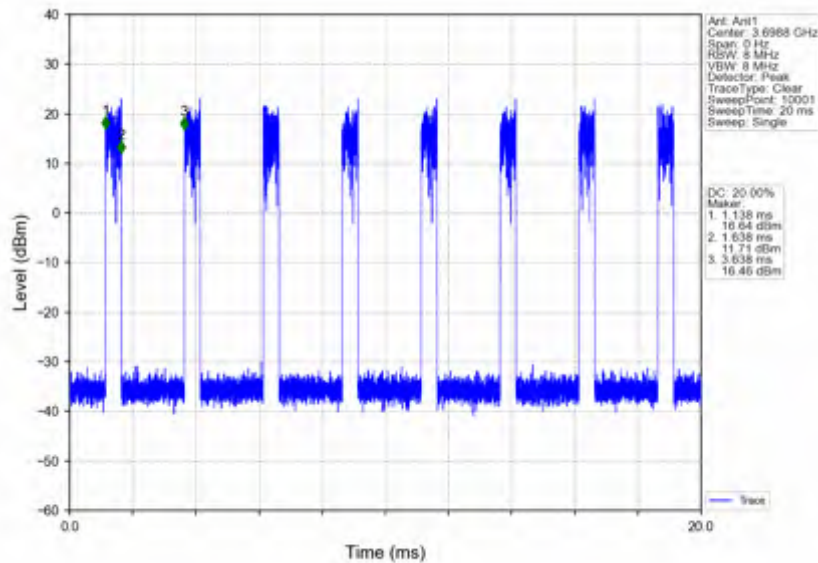
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Edge_1RB_Right

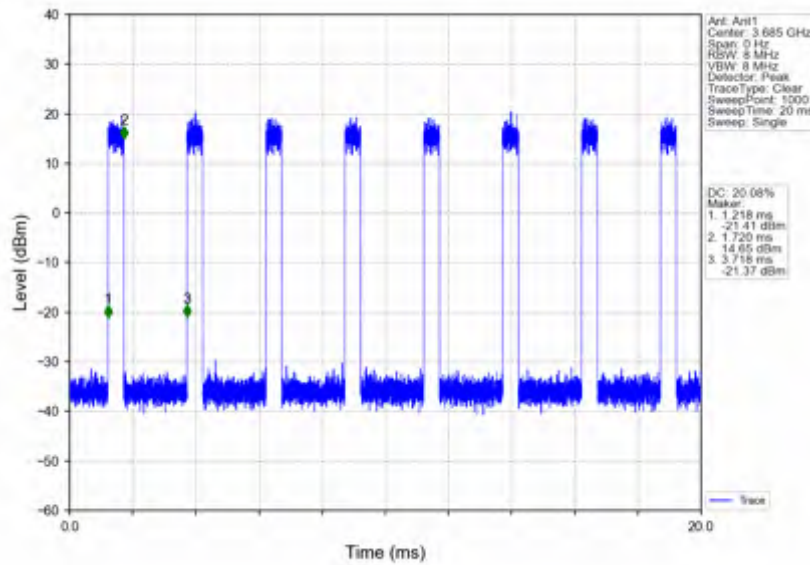


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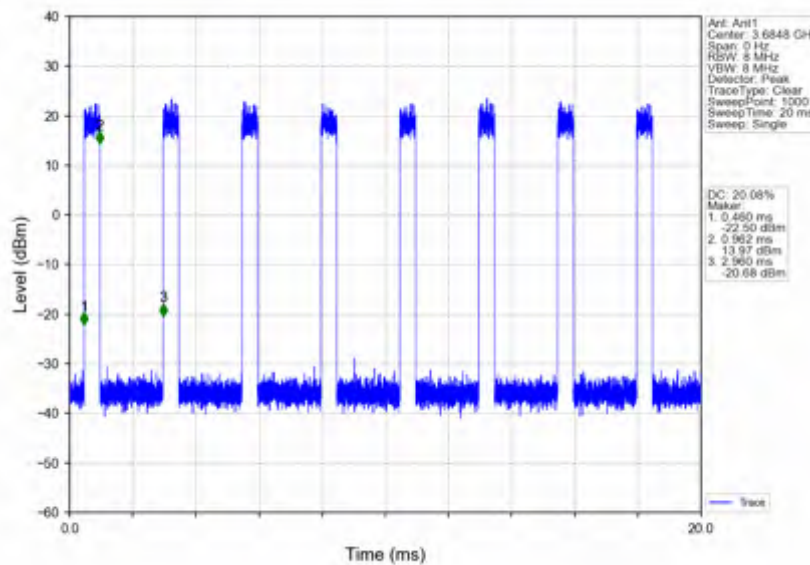
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Inner_Full



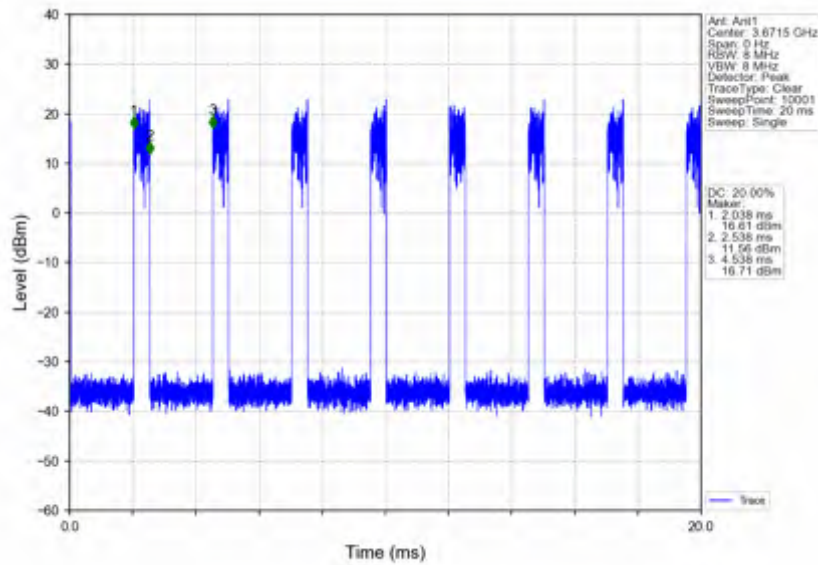
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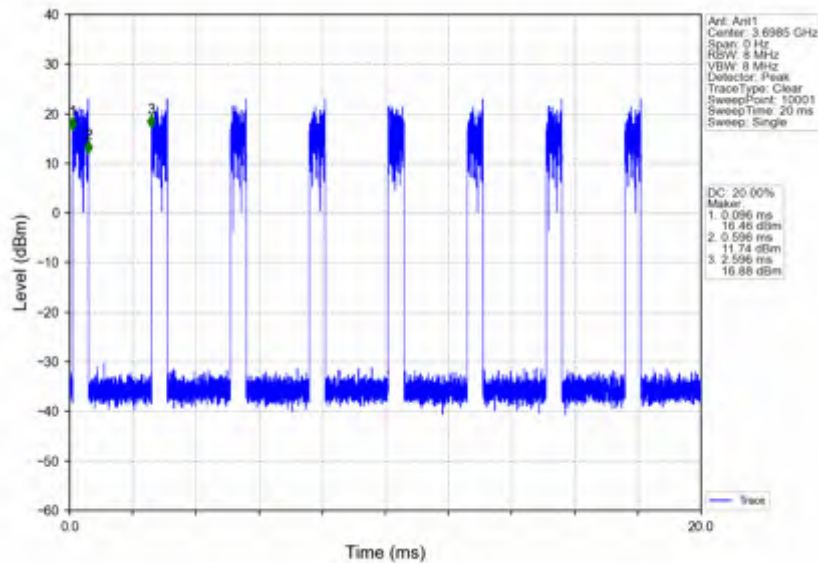
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3684.99MHz_Inner_1RB_Right



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1.13 30k_SISO_40MHz_NTNV

1.13.1 Test Result

5G NR n78d SCS=30kHz SISO 40MHz 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	3570	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
		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
	3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.16
		Edge_1RB_Right	0.504	2.500	20.16	6.96	0.14
		Outer_Full	0.504	2.500	20.16	6.96	0.08
		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	0.508	2.502	20.30	6.92	0.02
	3679.98	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
		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 QPSK	3570	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	0.504	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	0.500	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	0.502	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
	3679.98	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	0.504	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
DFT-s-OFDM 16 QAM	3570	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.06
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		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



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		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	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3679.98		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	0.502	2.500	20.08	6.97	0.00
	DFT-s-OFDM 64 QAM	3570	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	0.504	2.500	20.16	6.96	0.00
3624.99			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.06
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.06
			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
3679.98			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
DFT-s-OFDM 256 QAM	3570	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	
	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	0.502	2.500	20.08	6.97	0.00
	3679.98		Outer_Full	0.504	2.500	20.16	6.96	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
CP-OFDM QPSK	3570	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	
	3624.99		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	0.502	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	0.500	2.500	20.00	6.99	0.00		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00		
	3679.98	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00		
			0.502	2.500	20.08	6.97	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	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00		
		CP-OFDM 16 QAM	3570	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	0.08		
Inner_Full	0.502			2.500	20.08	6.97	0.06		
3624.99	Inner_1RB_Left		0.502	2.500	20.08	6.97	0.00		
			0.500	2.500	20.00	6.99	0.02		
	Inner_1RB_Right		0.500	2.500	20.00	6.99	0.02		
	Edge_1RB_Left		0.500	2.500	20.00	6.99	0.00		
	Edge_1RB_Right		0.500	2.500	20.00	6.99	0.08		
	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		
3679.98	Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00			
		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	0.502	2.500	20.08	6.97	0.00			
	Outer_Full	0.504	2.500	20.16	6.96	0.00			
	Inner_Full	0.502	2.500	20.08	6.97	0.08			
	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			
CP-OFDM 64 QAM	3570	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		
		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	0.500	2.500	20.00	6.99	0.00		
			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	0.08		
		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	0.500	2.500	20.00	6.99	0.00		
3679.98	Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00			
		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			
	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	0.502	2.500	20.08	6.97	0.00			
	Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00			
CP-OFDM 256 QAM	3570	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		
	3624.99	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00		
			0.500	2.500	20.00	6.99	0.00		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08		
		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	0.504	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		



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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	0.502	2.500	20.08	6.97	0.00
	3679.98	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	0.502	2.498	20.10	6.97	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



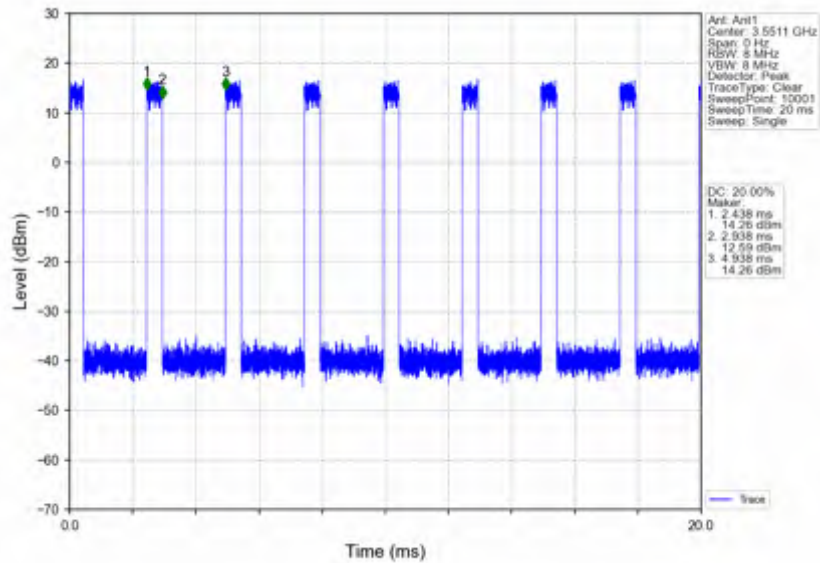
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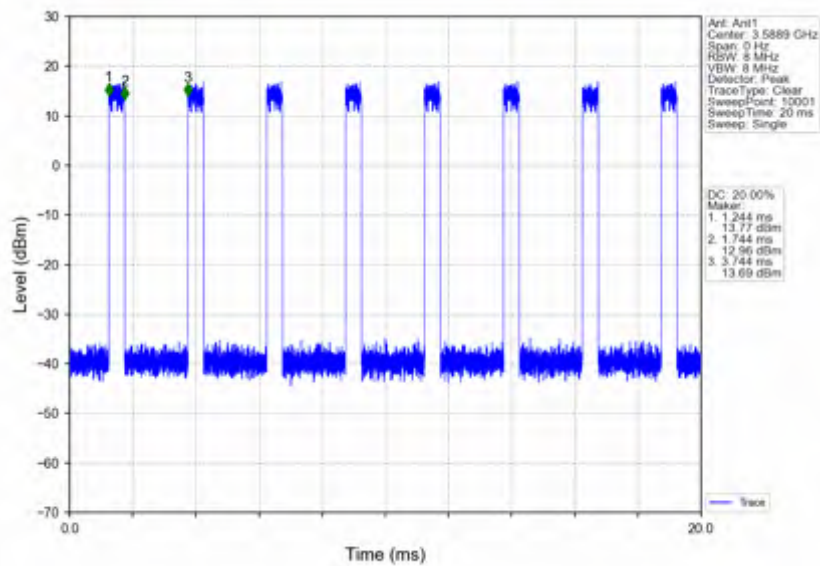
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1.13.2 Test Graph

n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Edge_1RB_Right

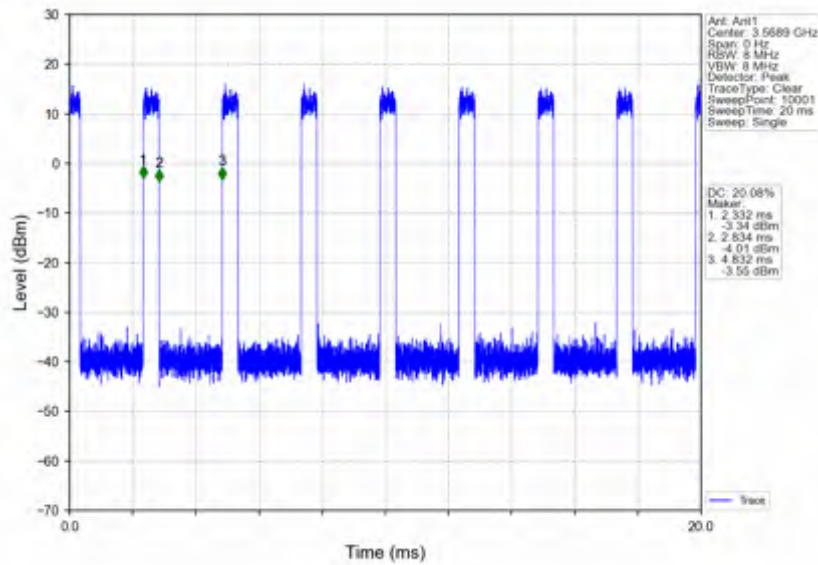


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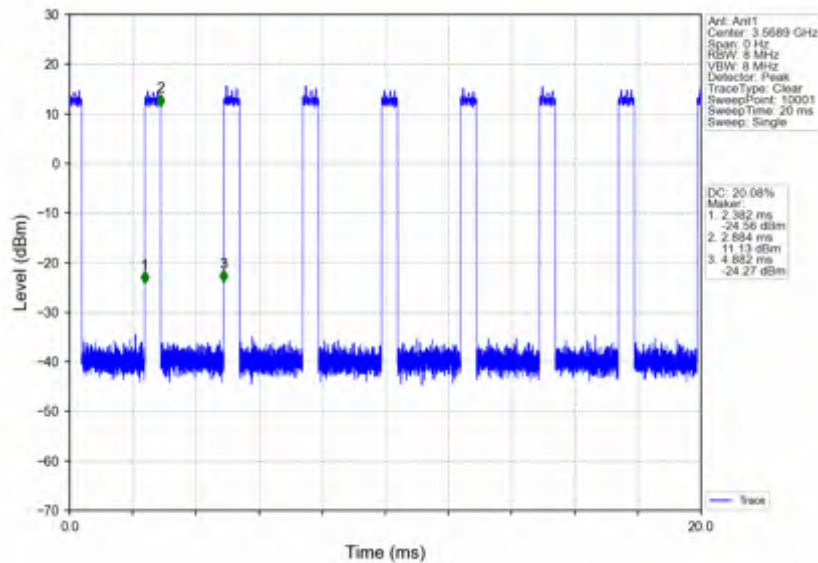
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Inner_Full



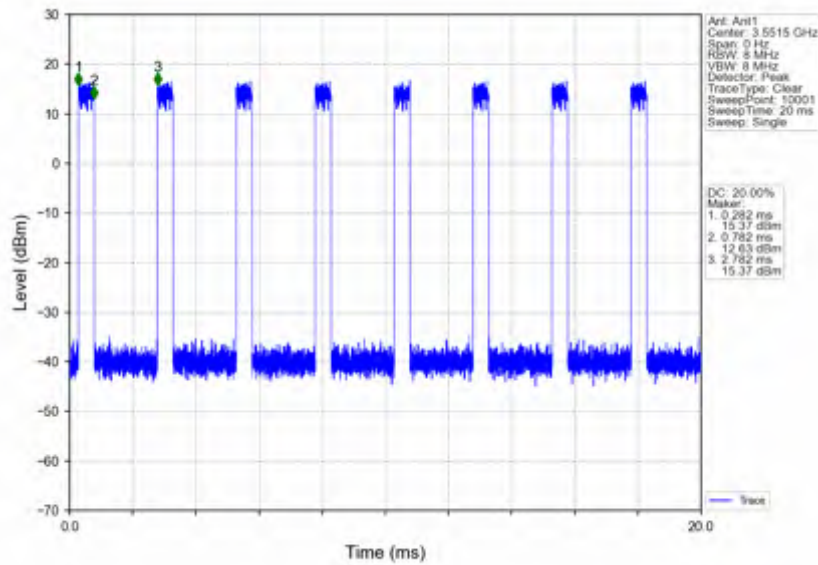
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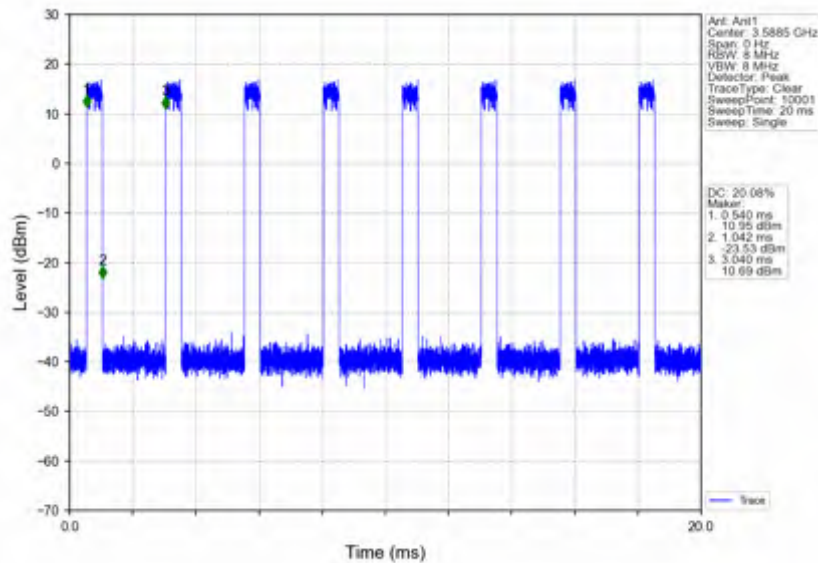
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Inner_1RB_Right



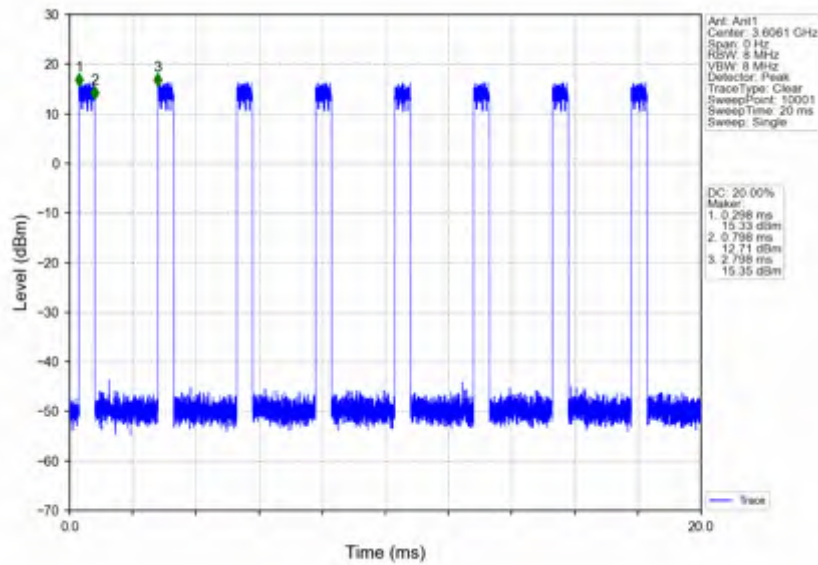
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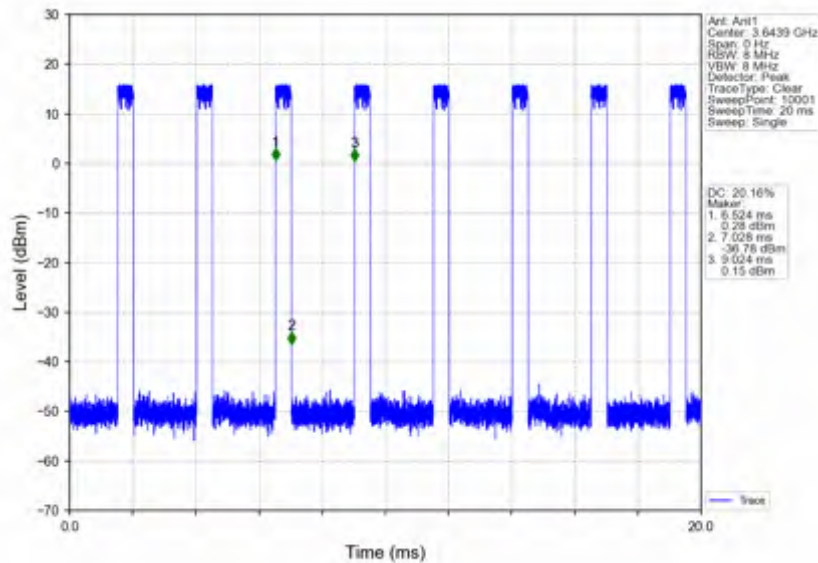
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Right

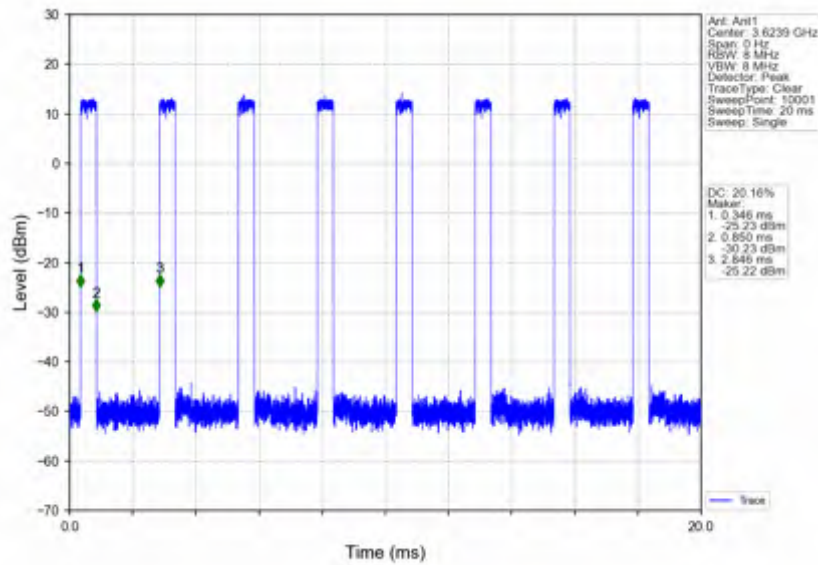


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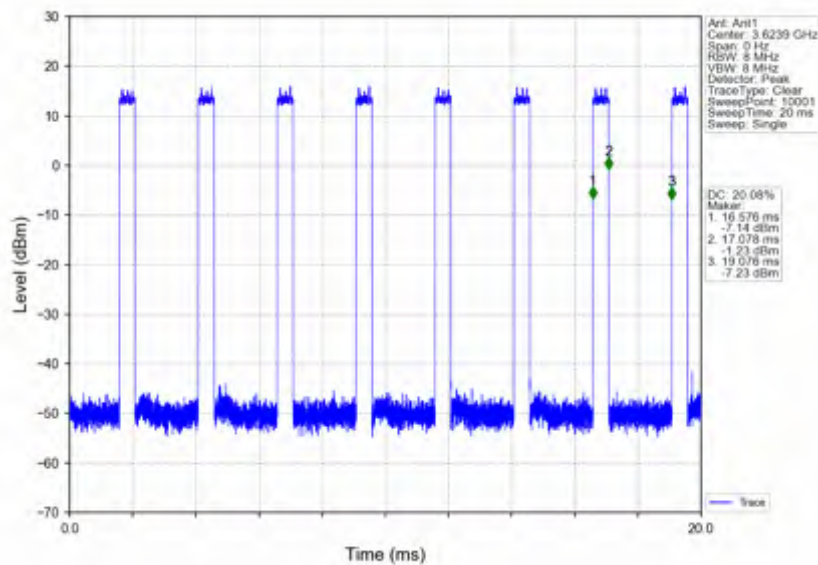
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_Full



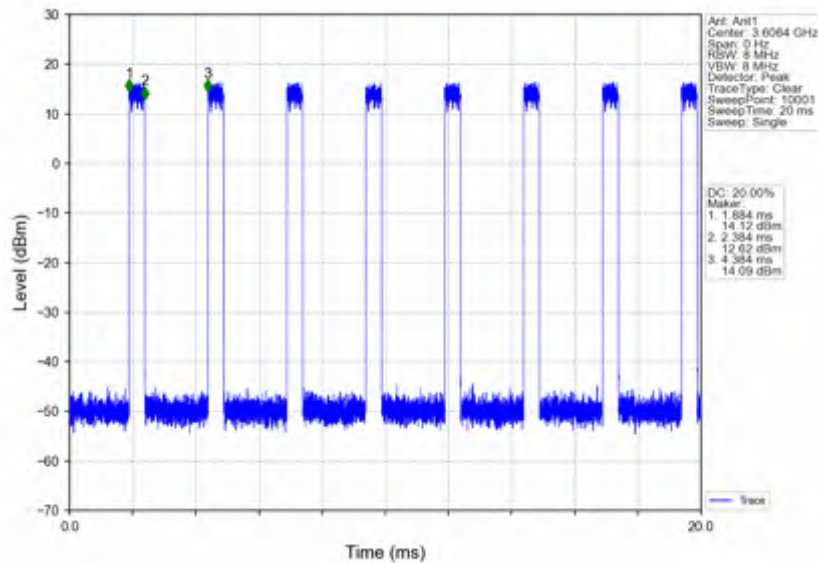
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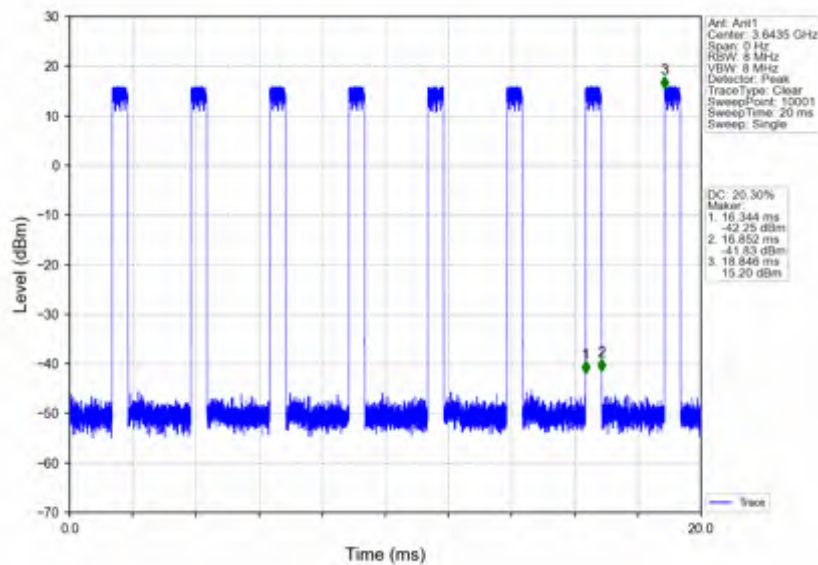
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_1RB_Right

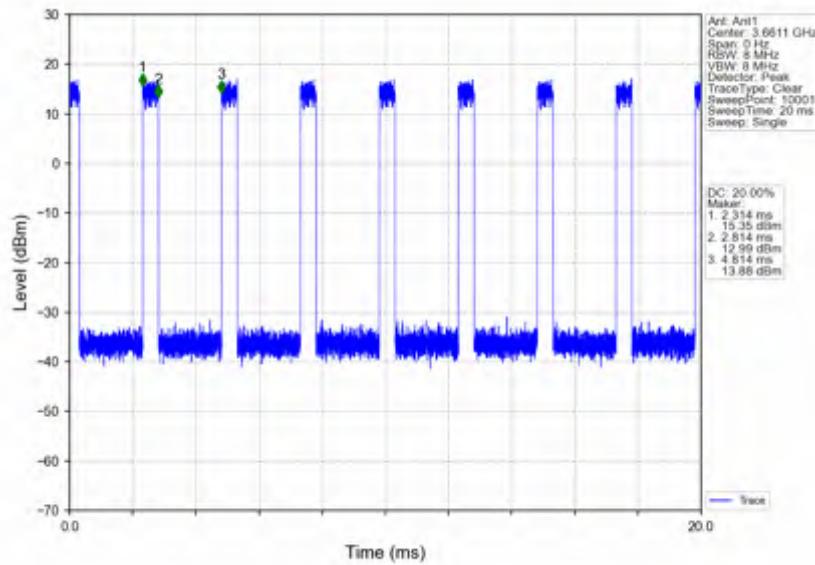


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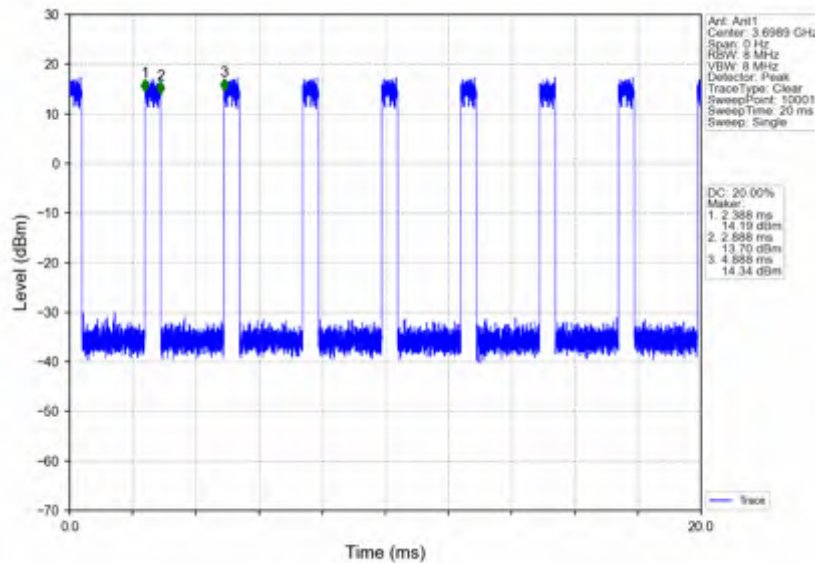
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Edge_1RB_Right

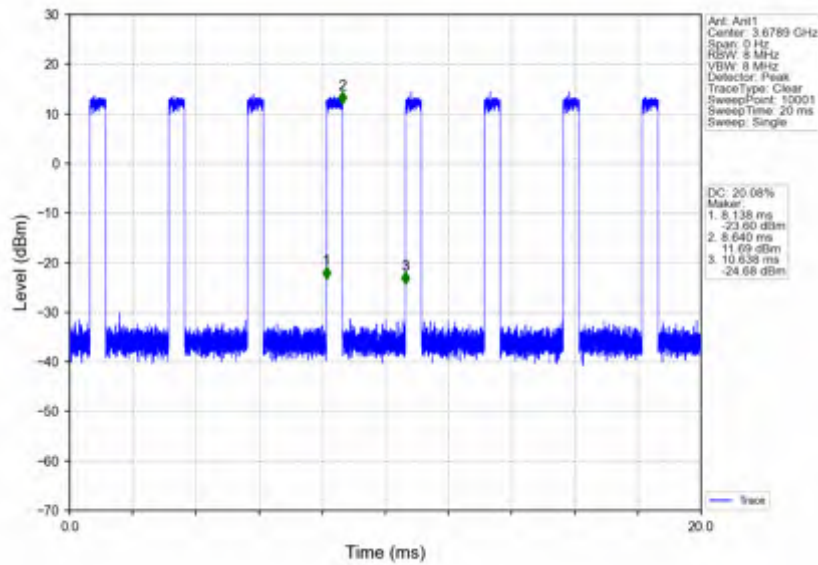


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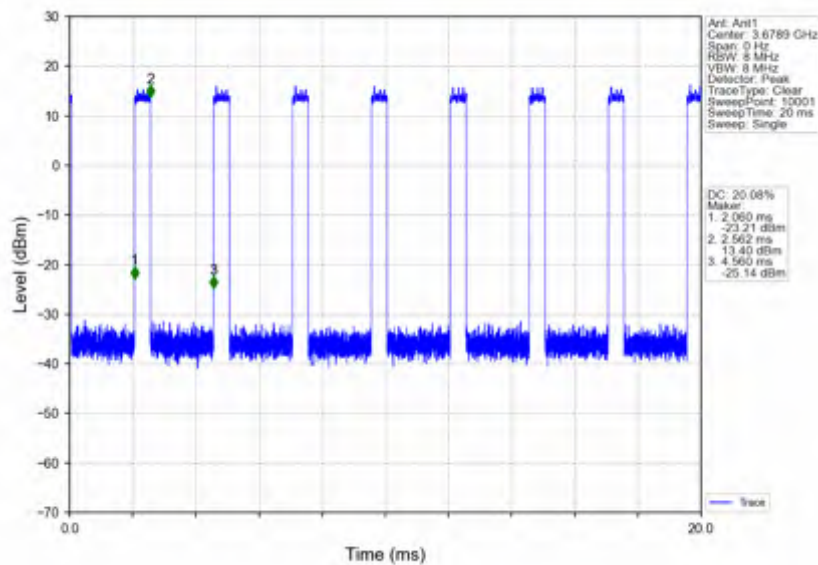
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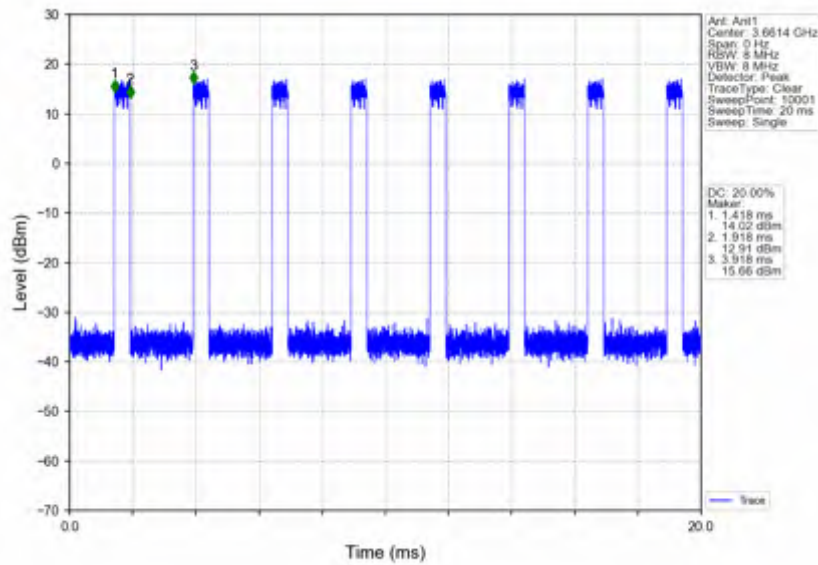
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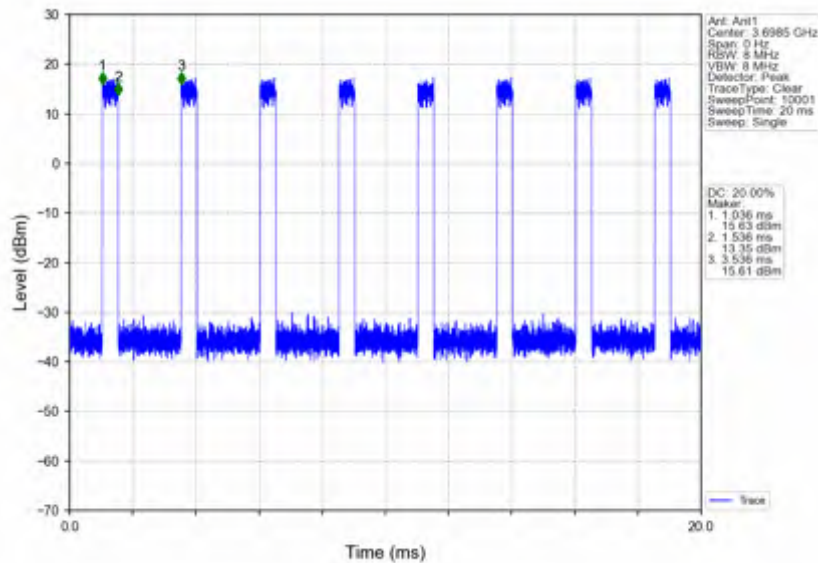
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Inner_1RB_Right

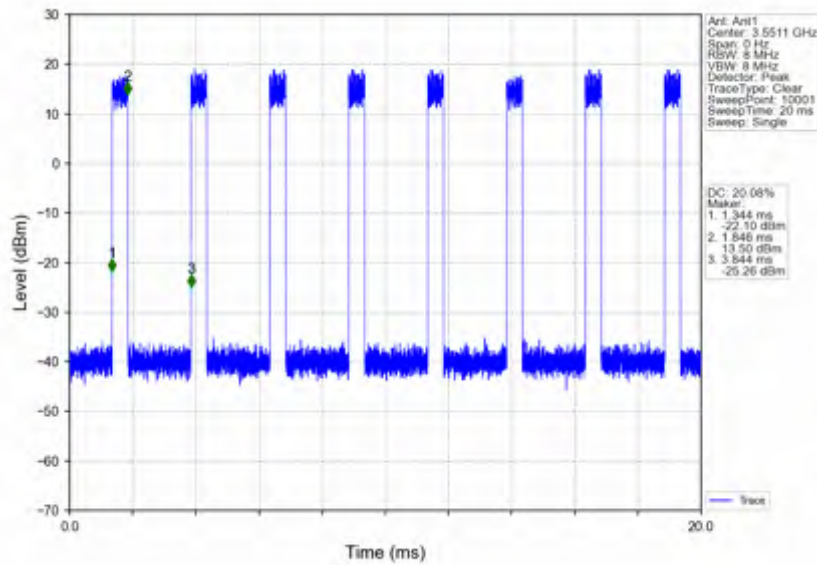


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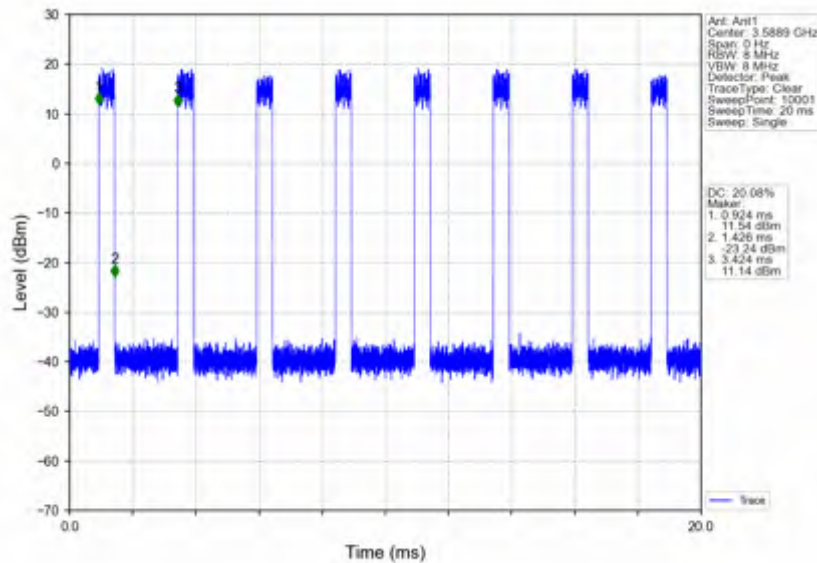
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Edge_1RB_Right



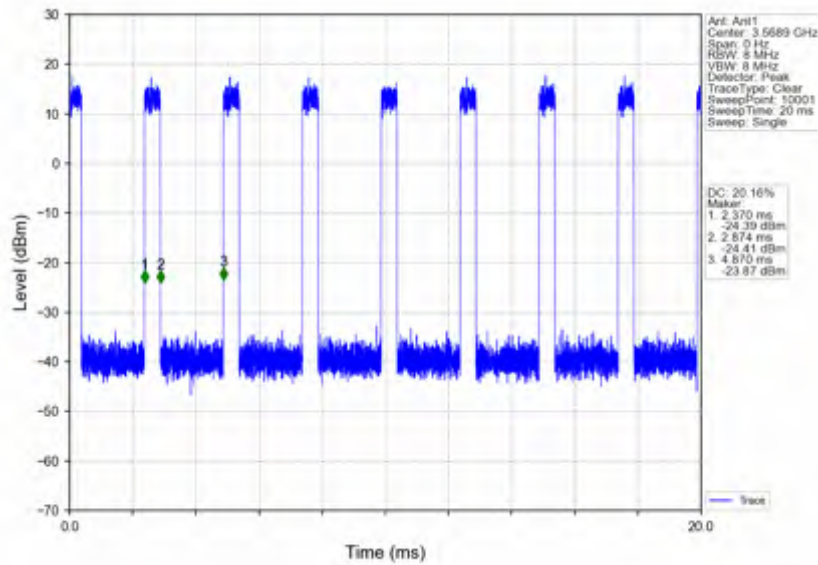
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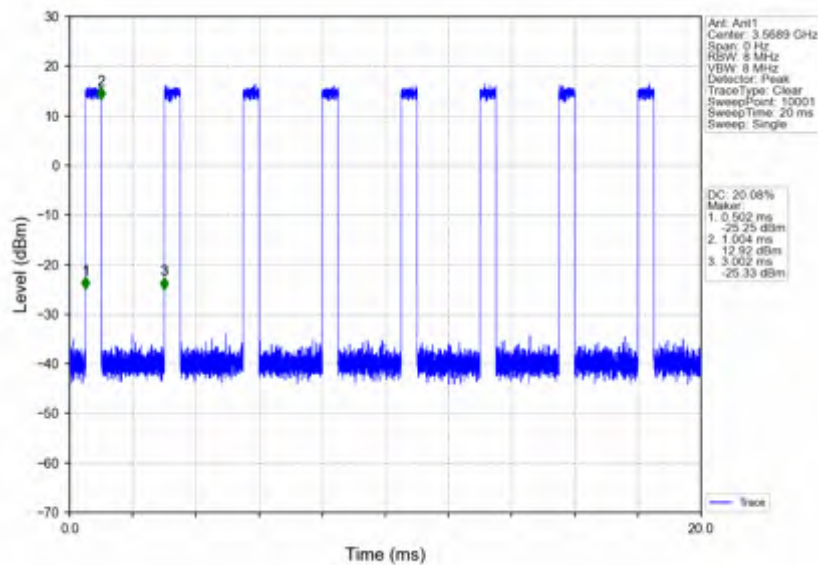
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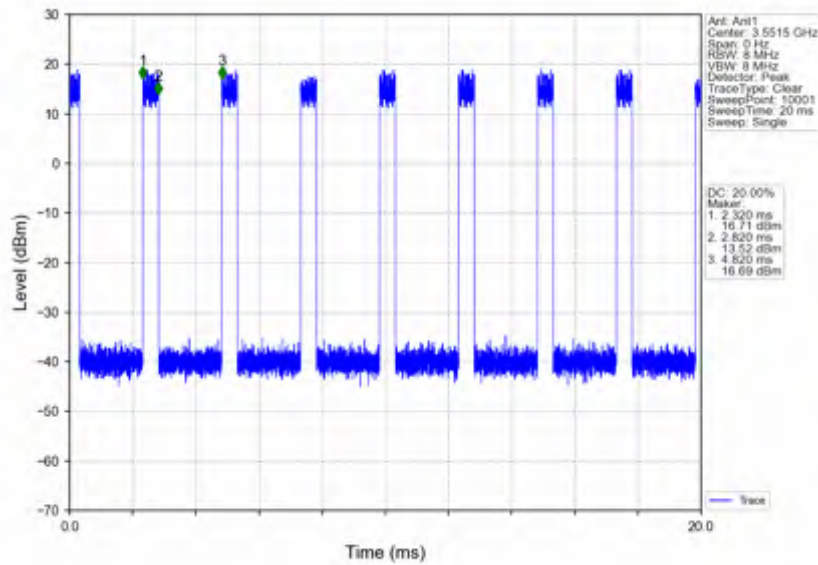


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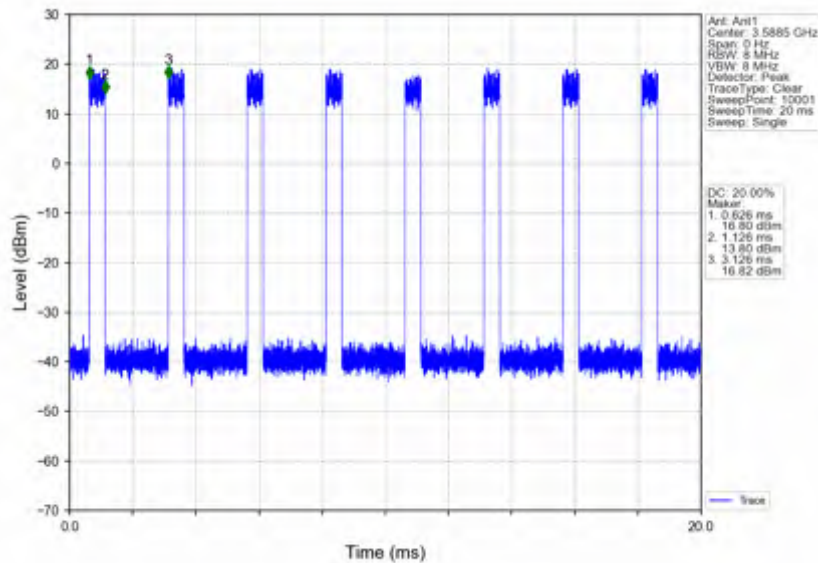
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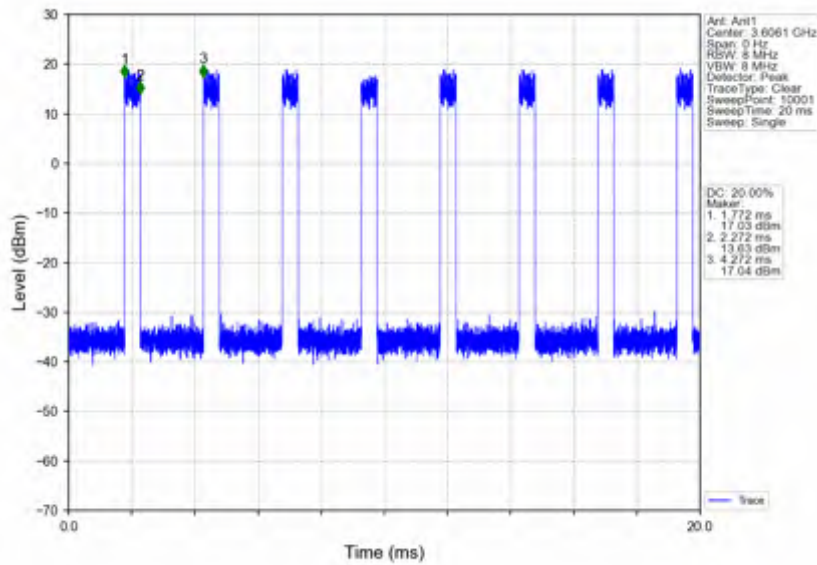


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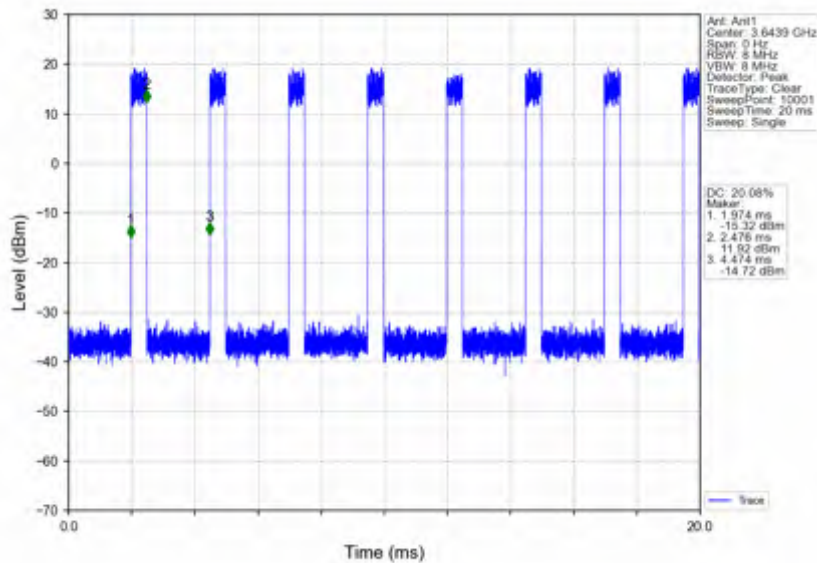
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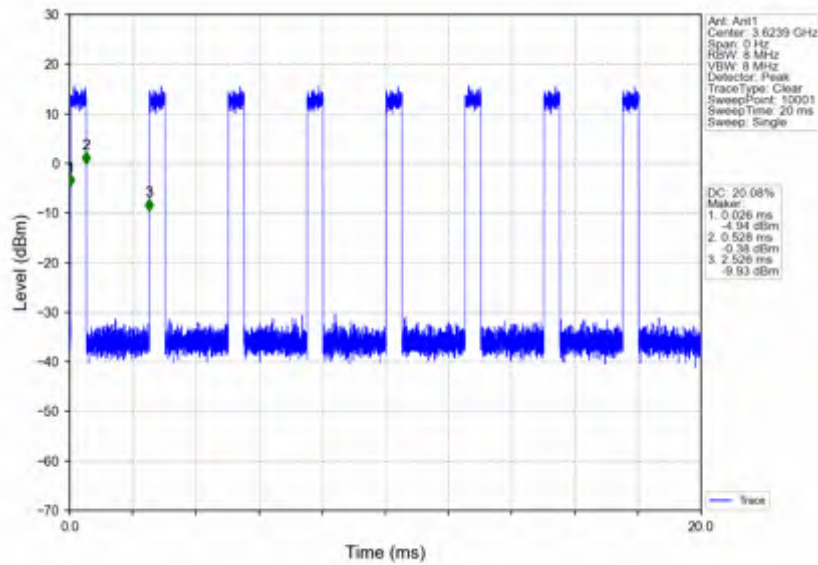
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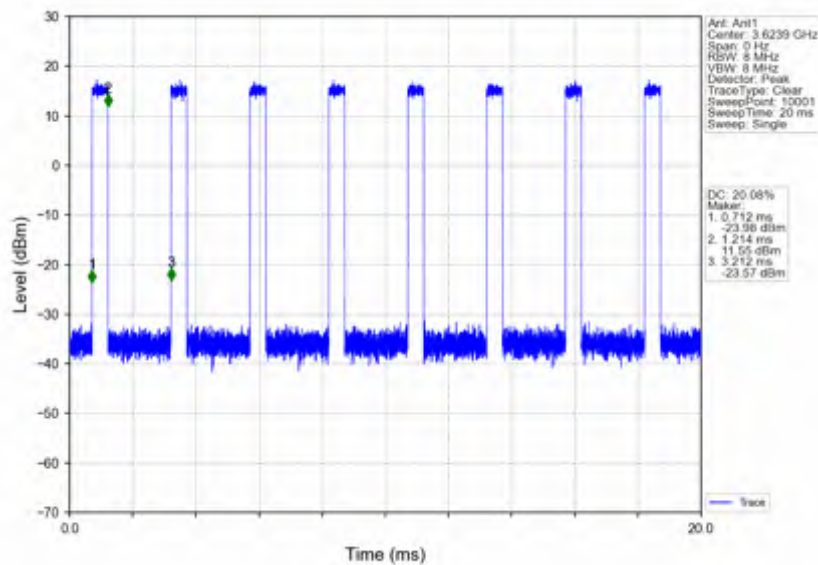
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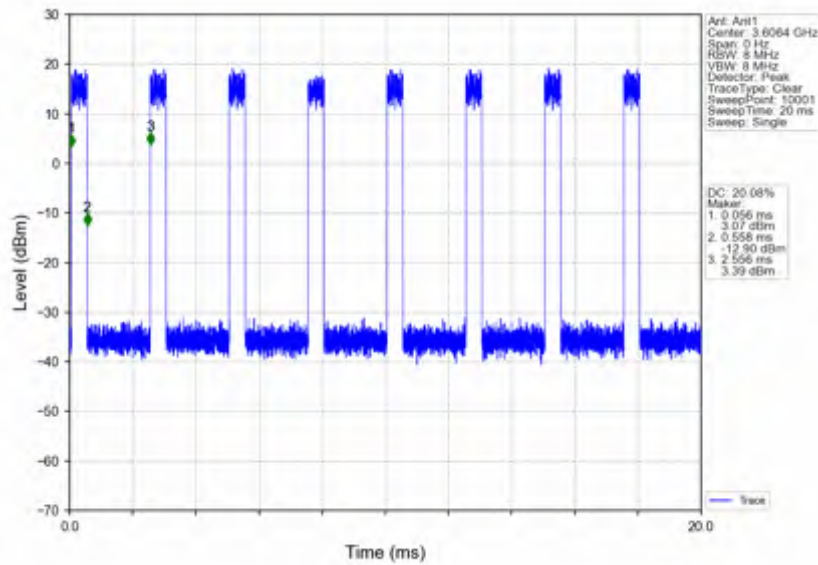
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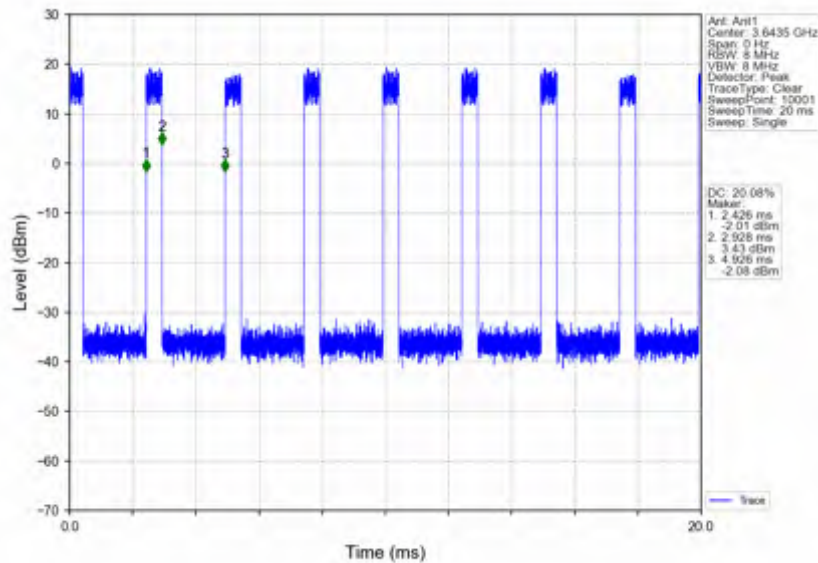
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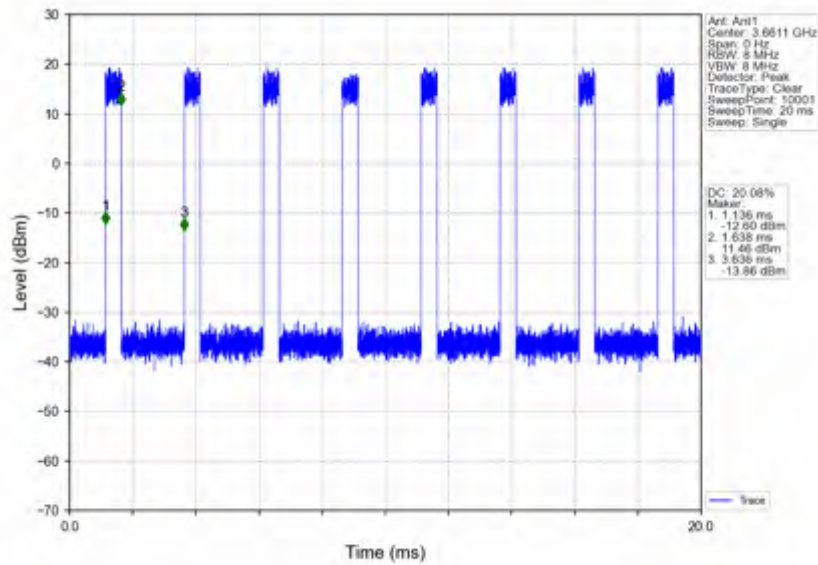


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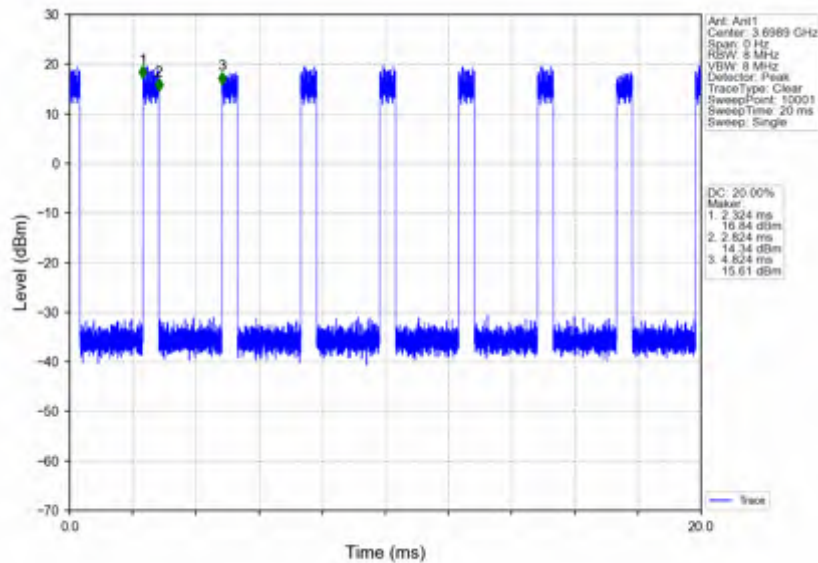
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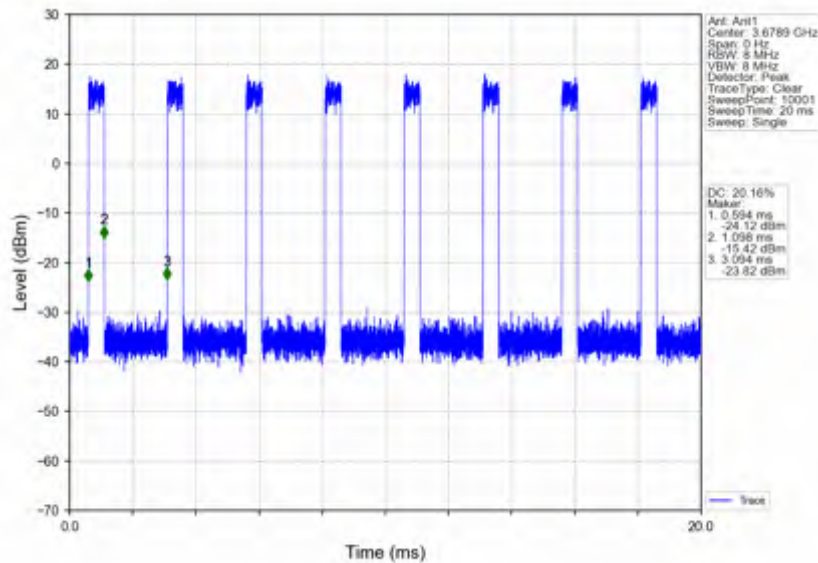


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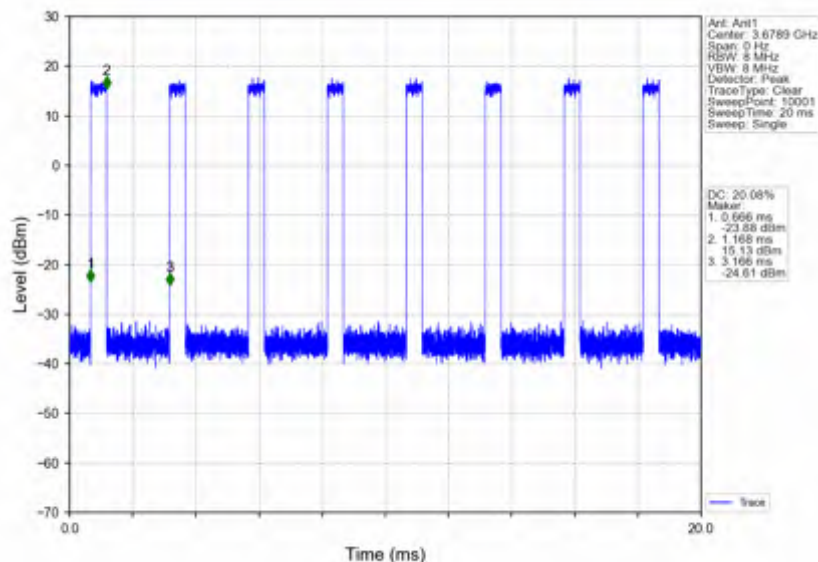
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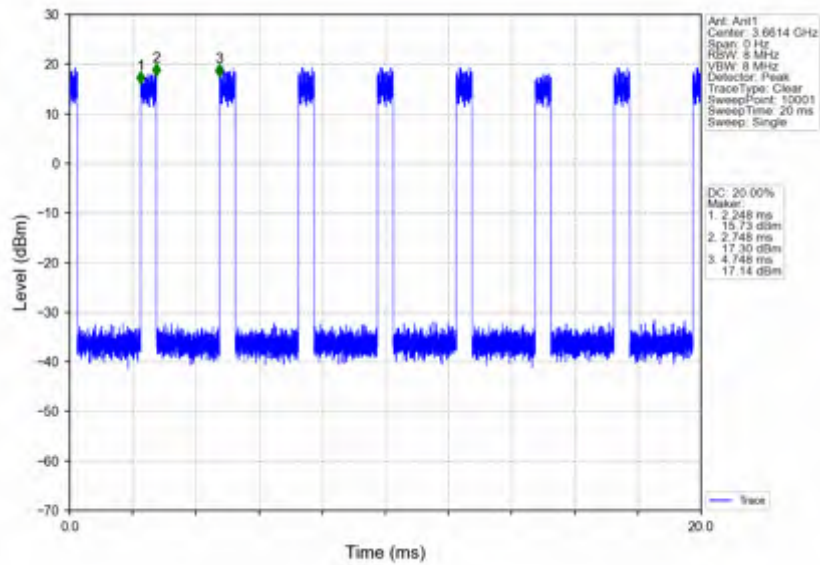
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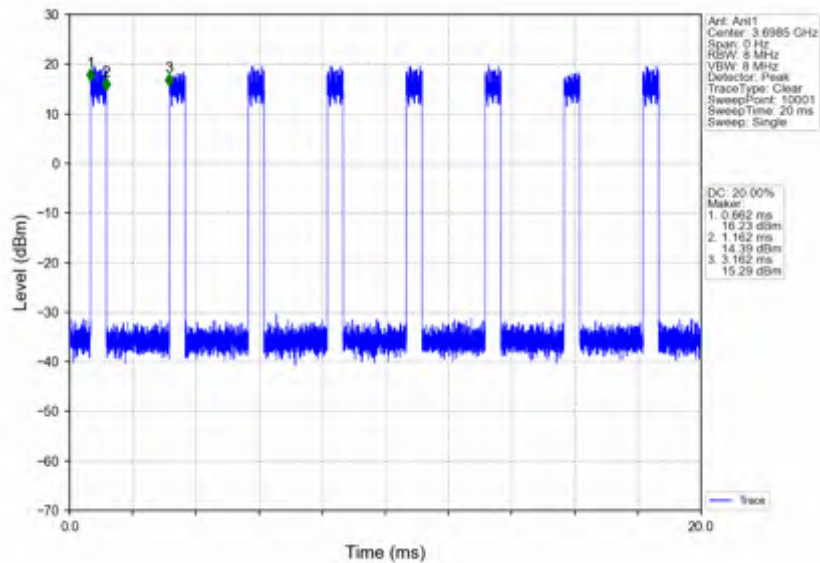
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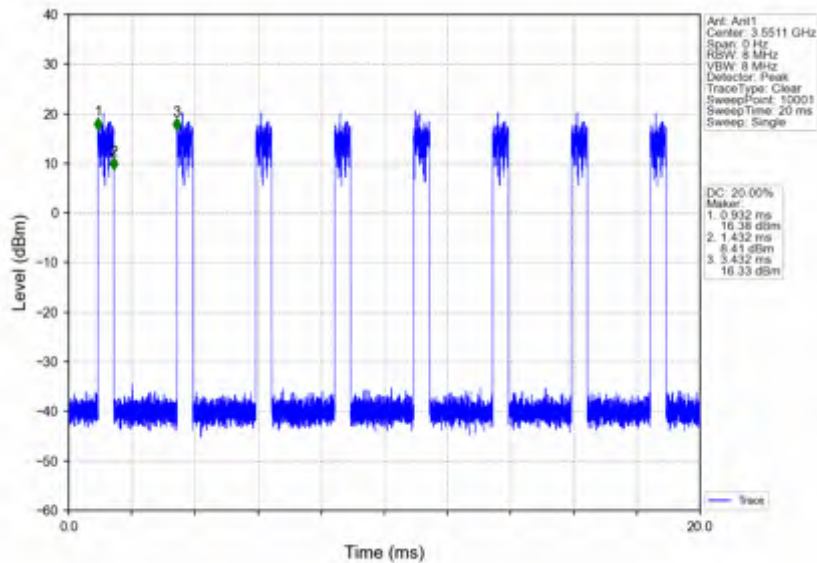


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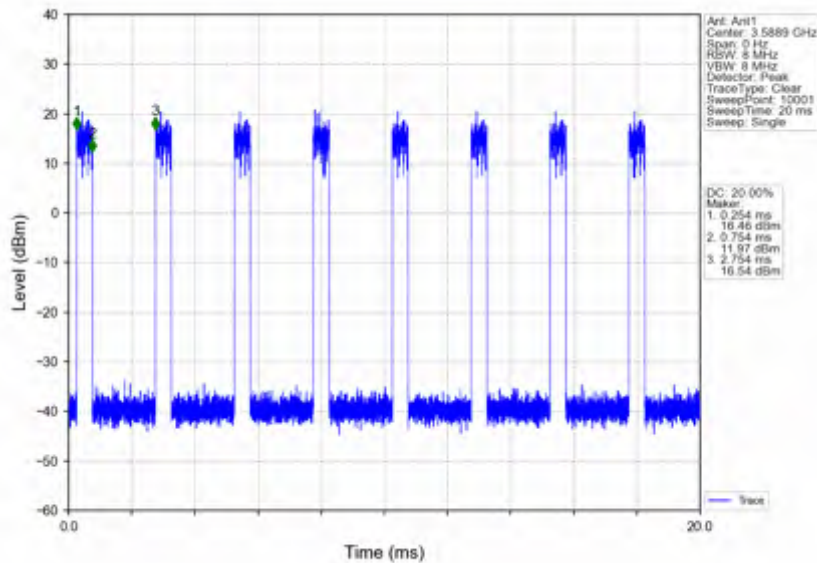
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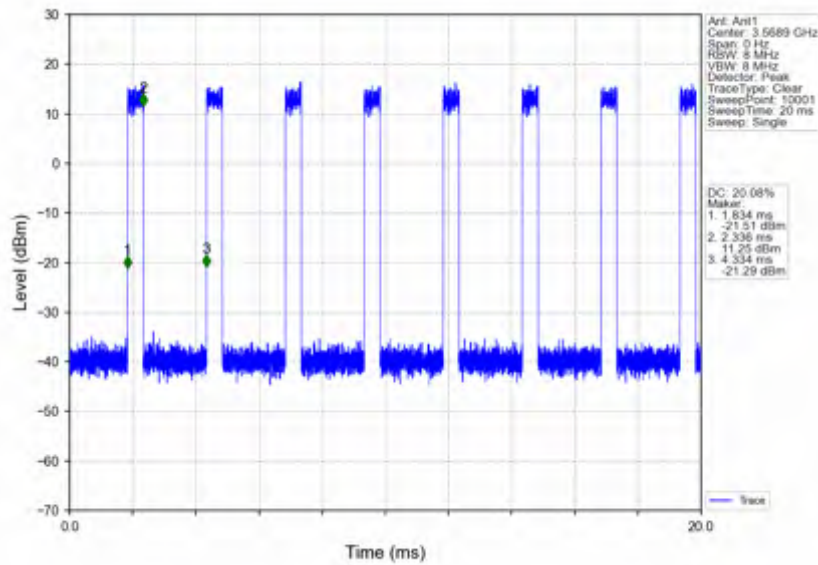
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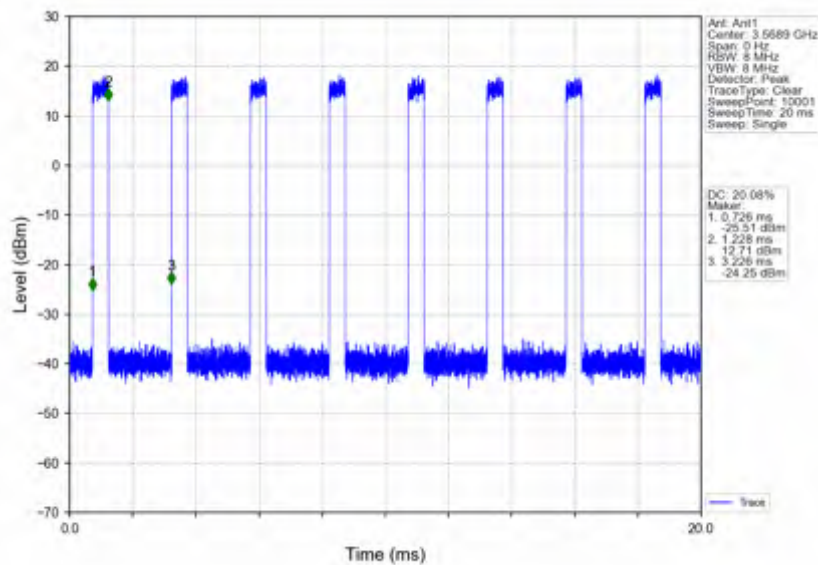
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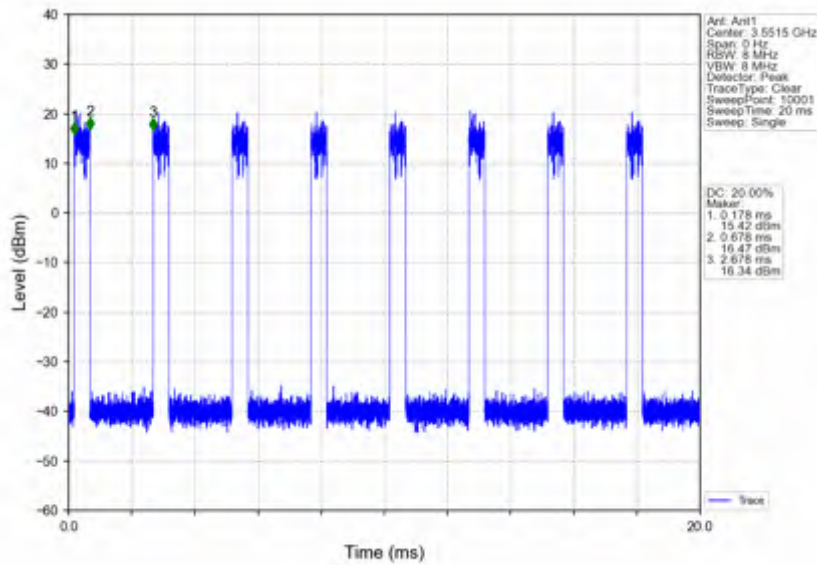
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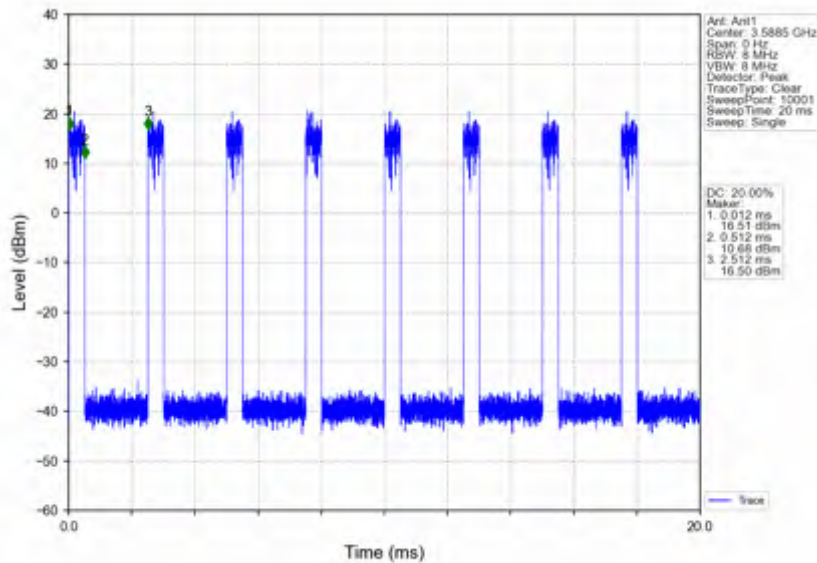
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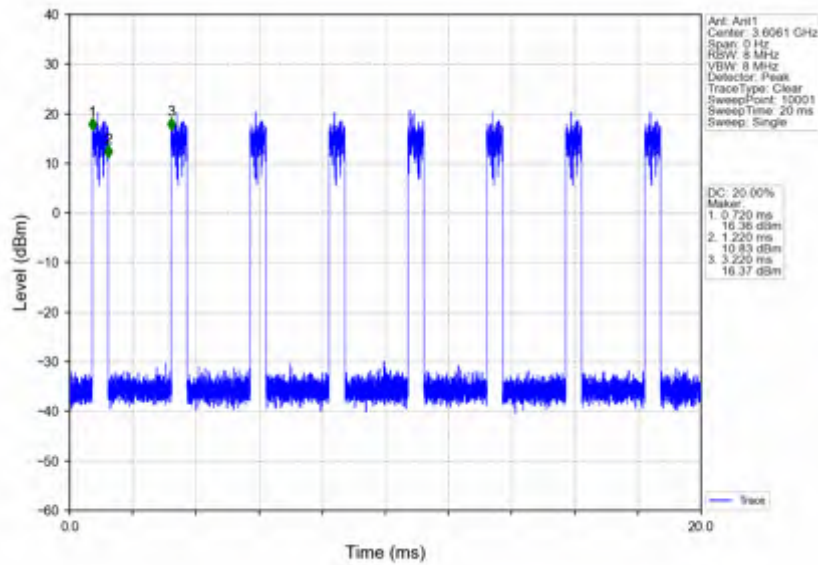
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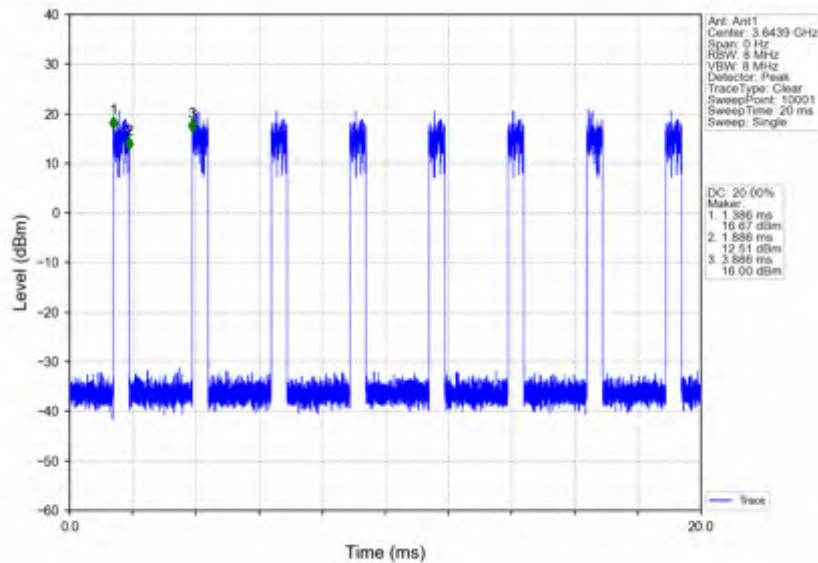
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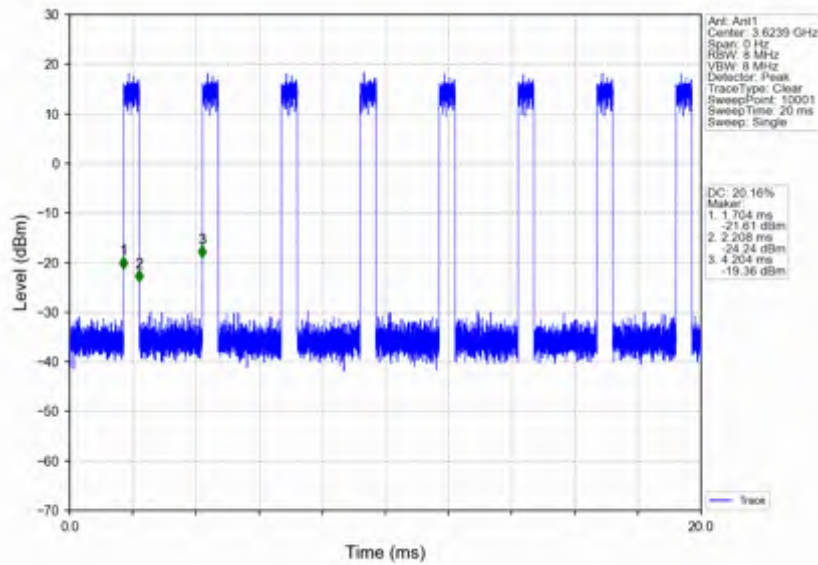
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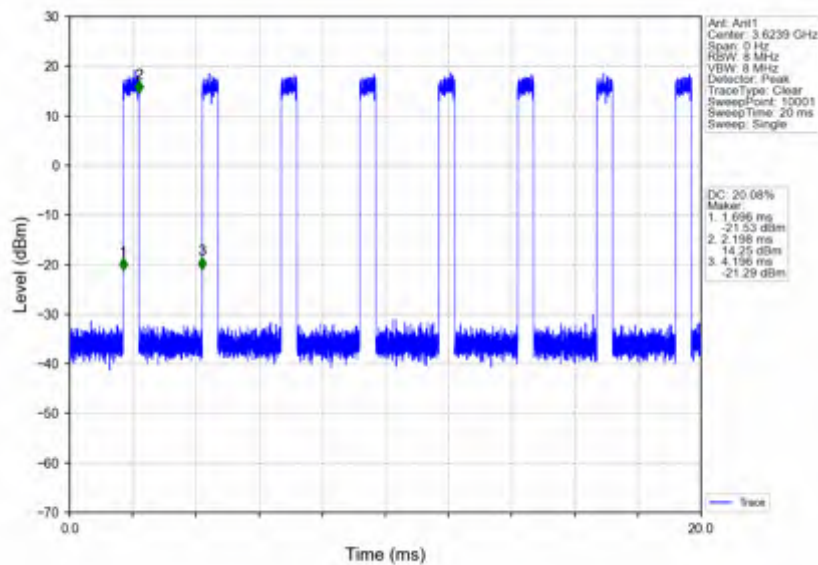
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full



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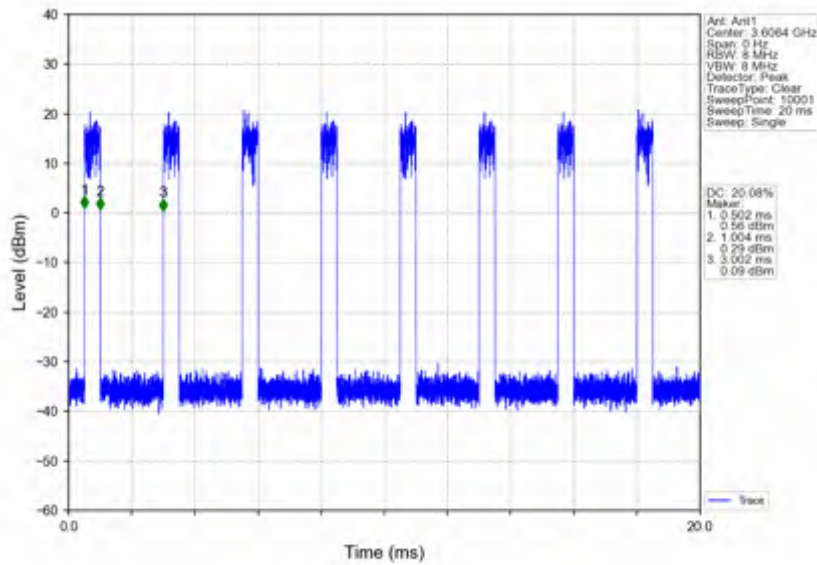


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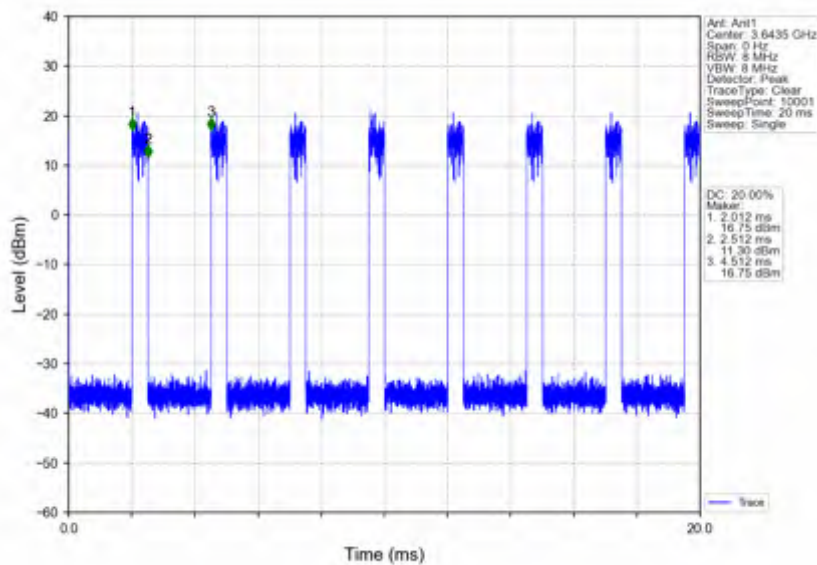
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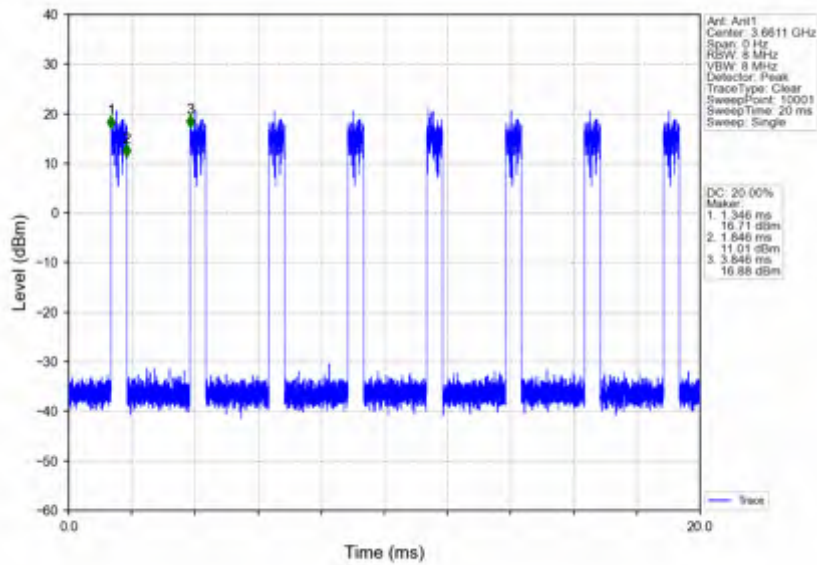
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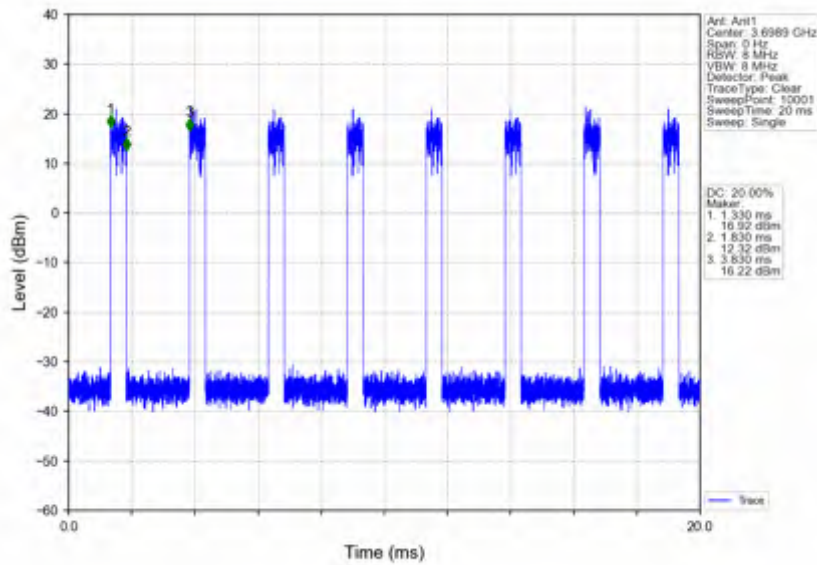
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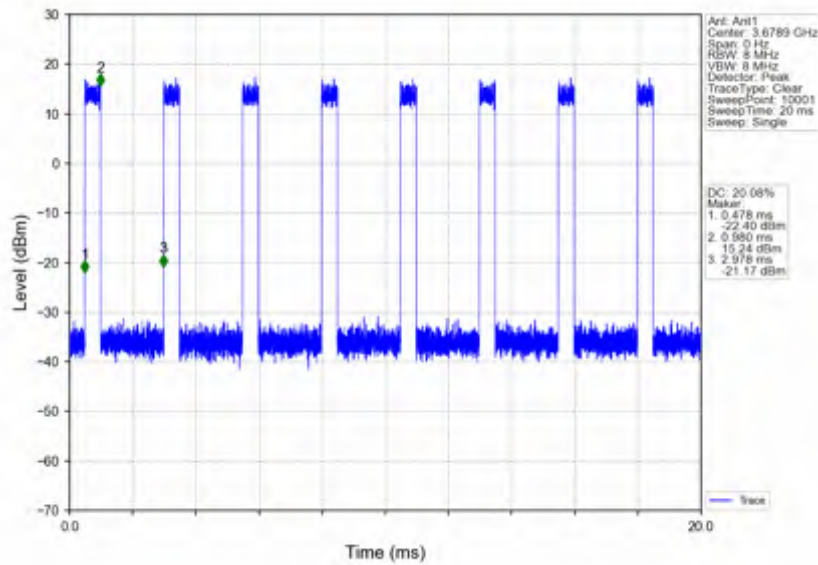


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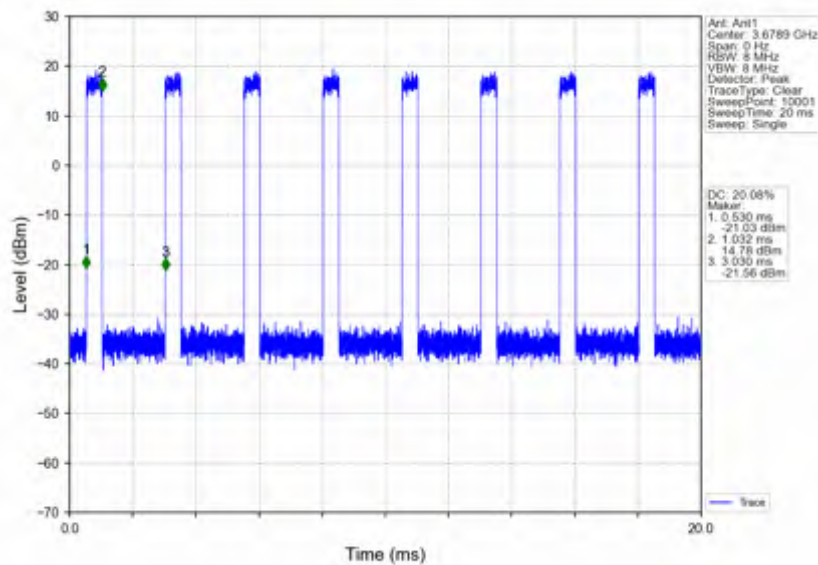
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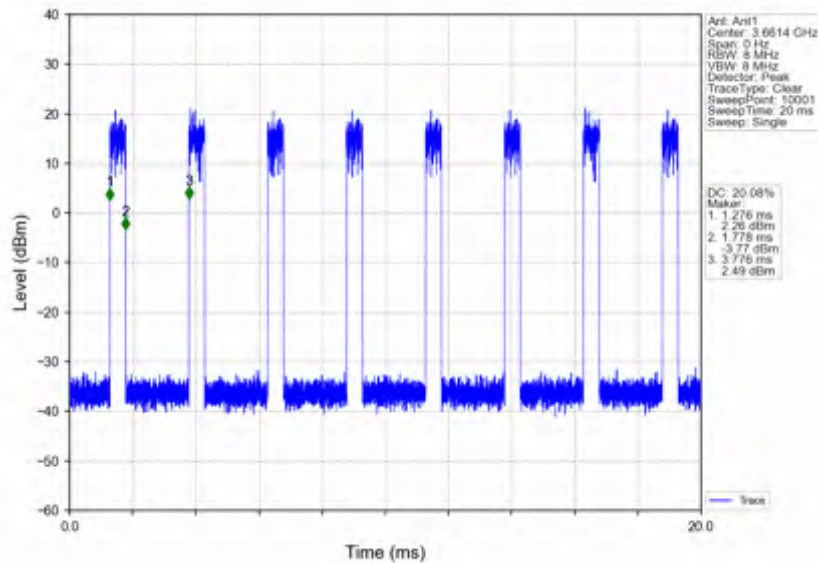
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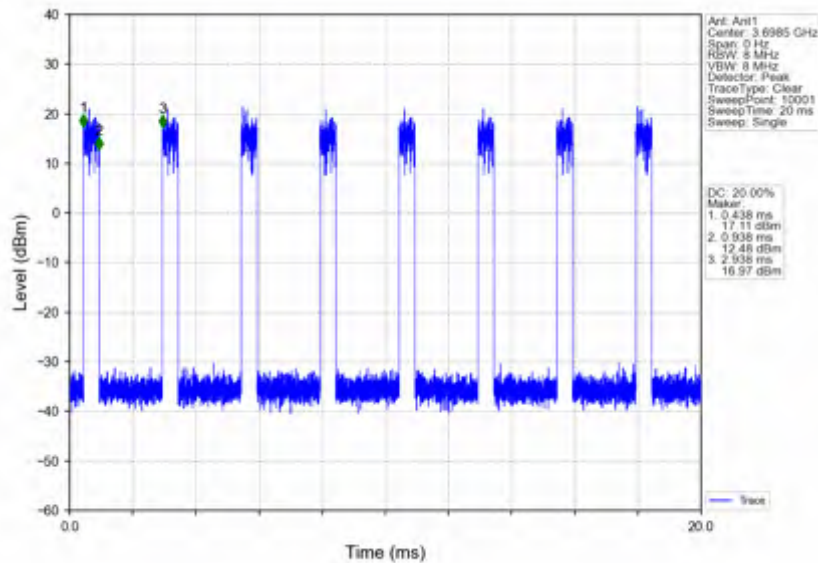
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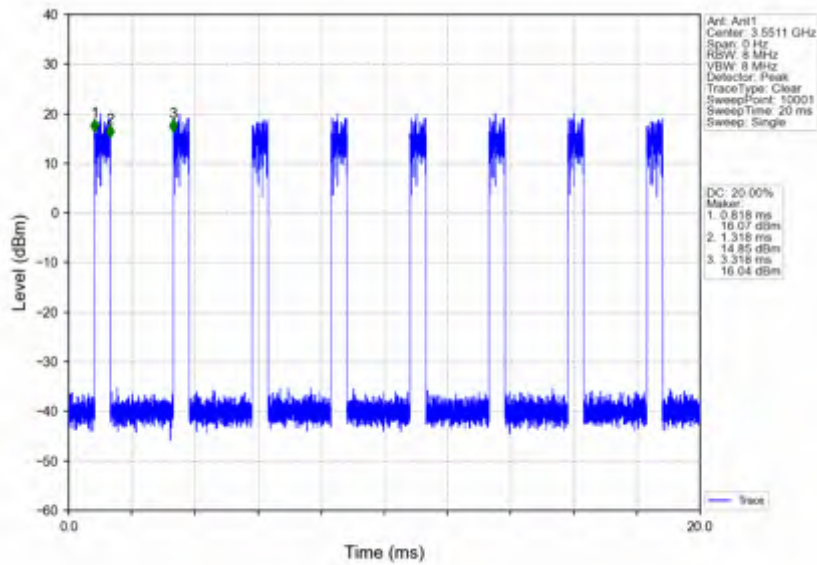
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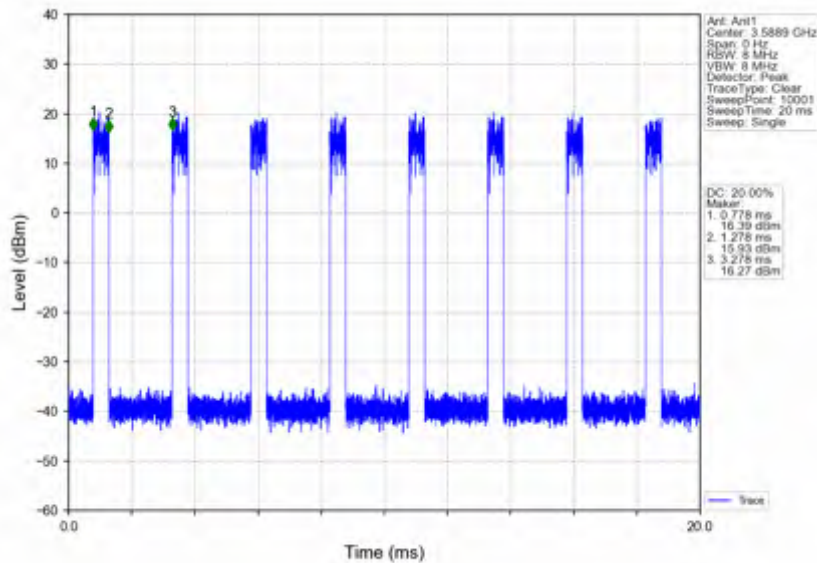
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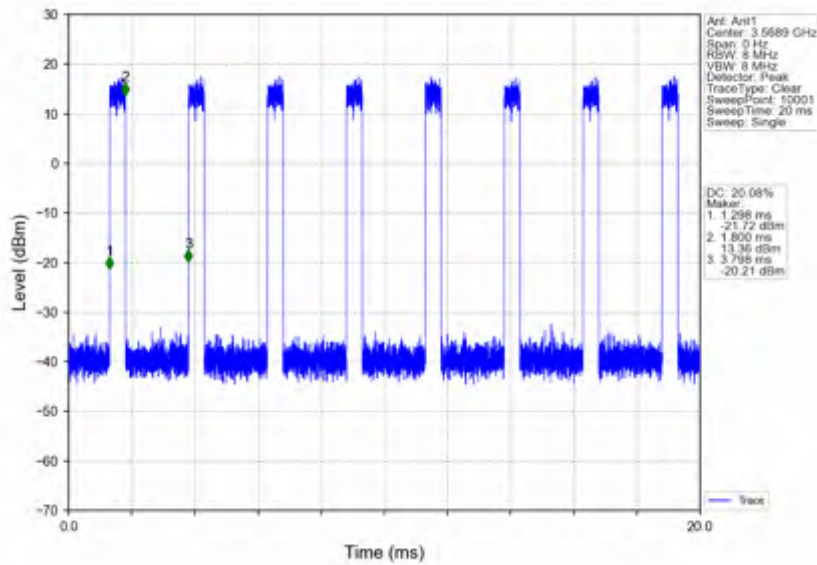


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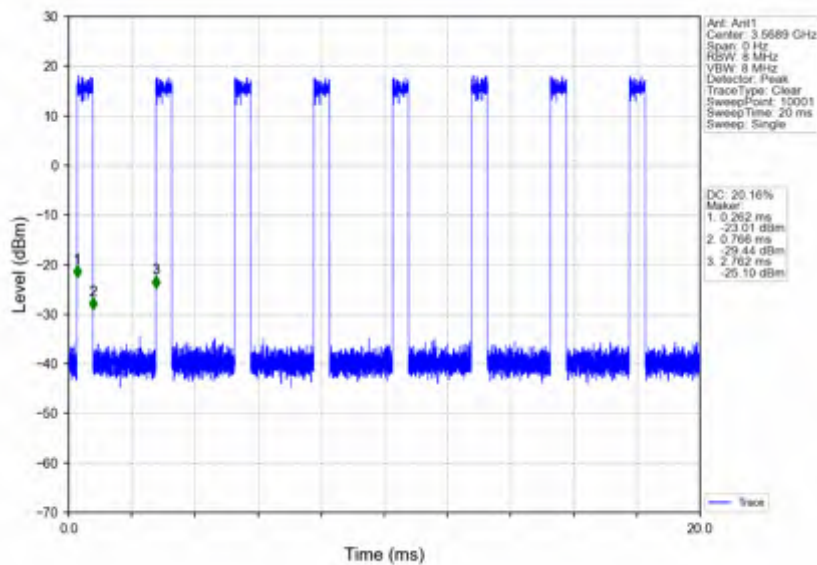
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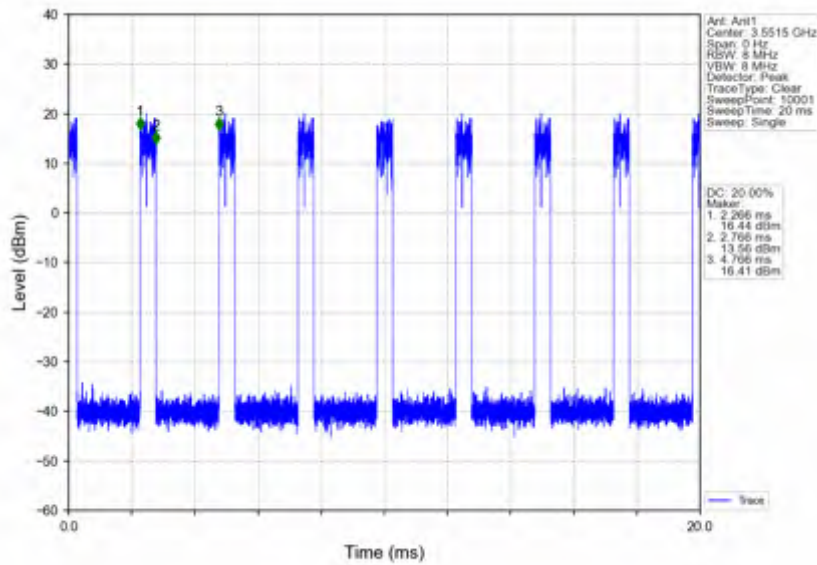
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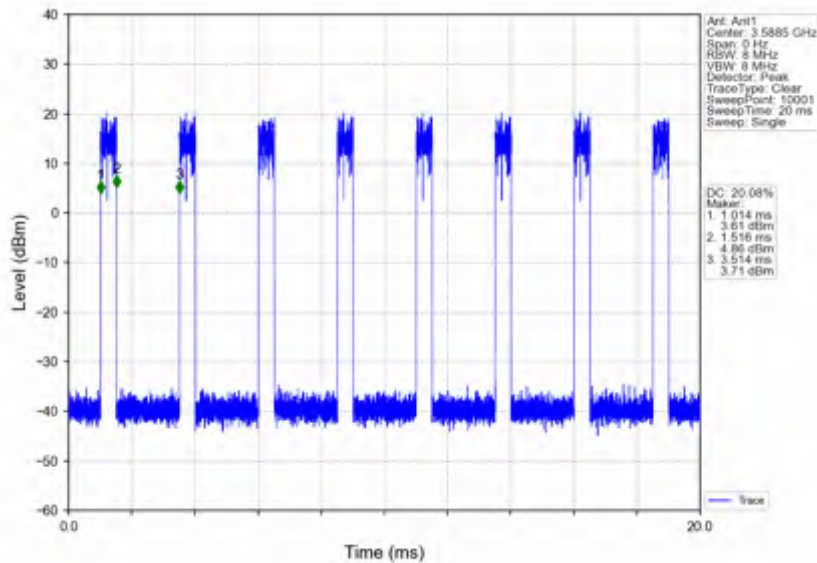
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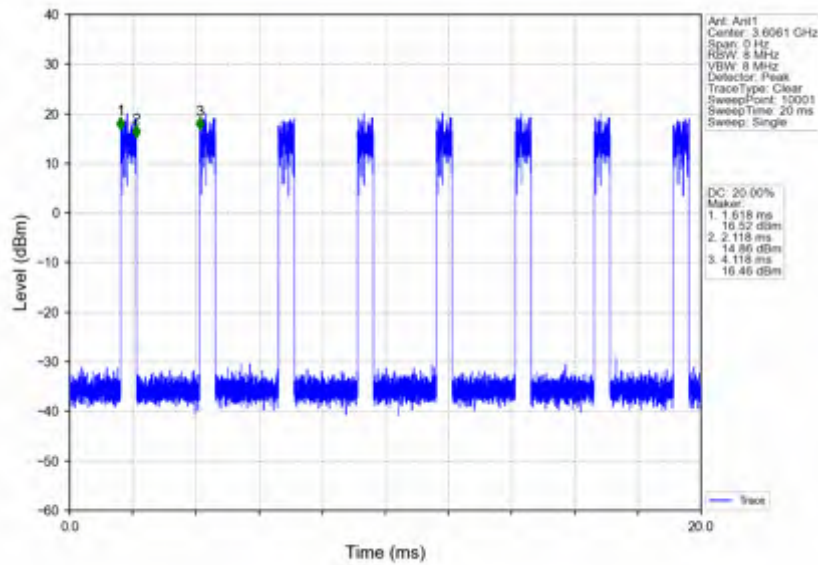
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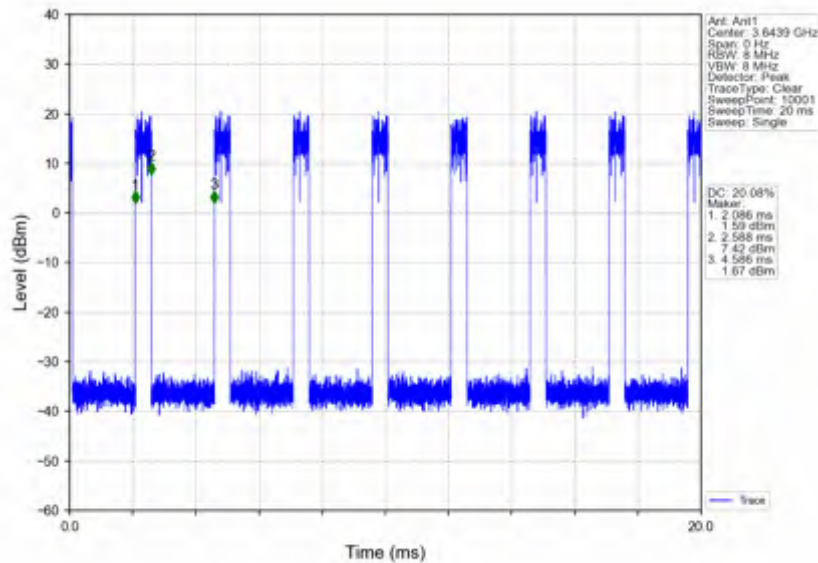
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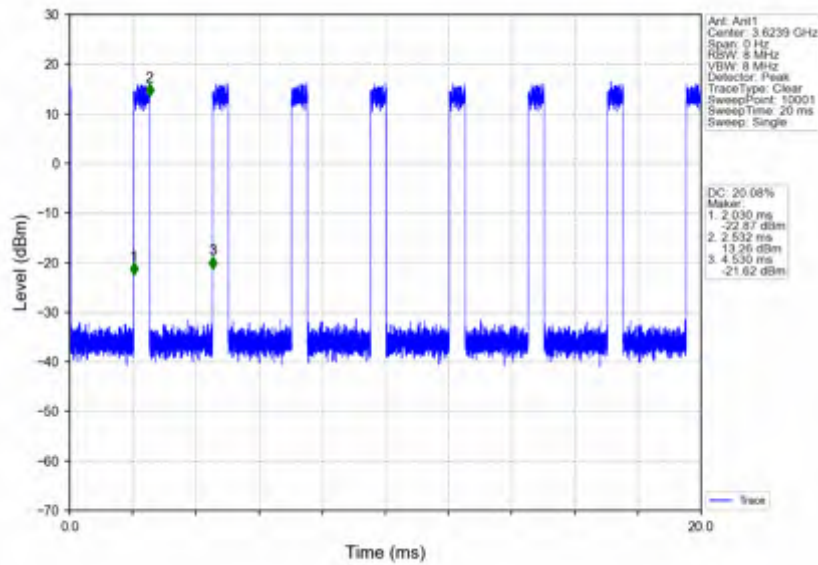


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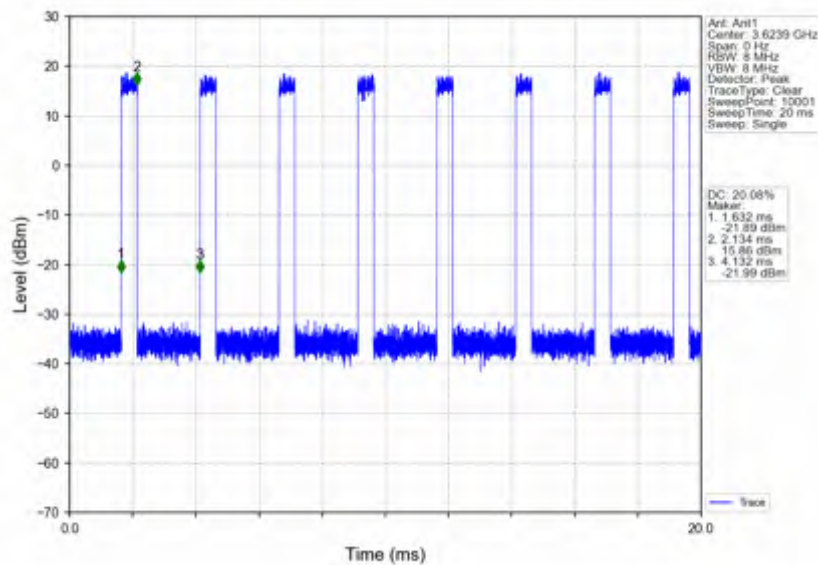
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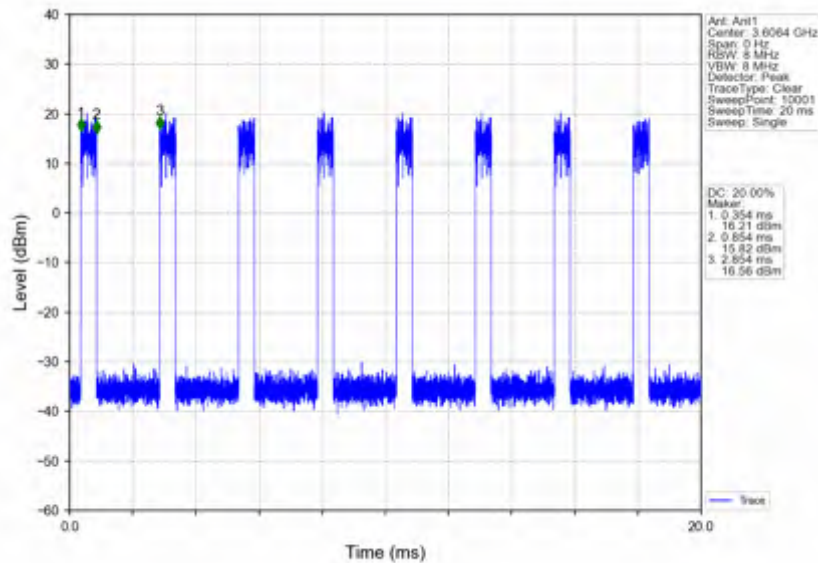


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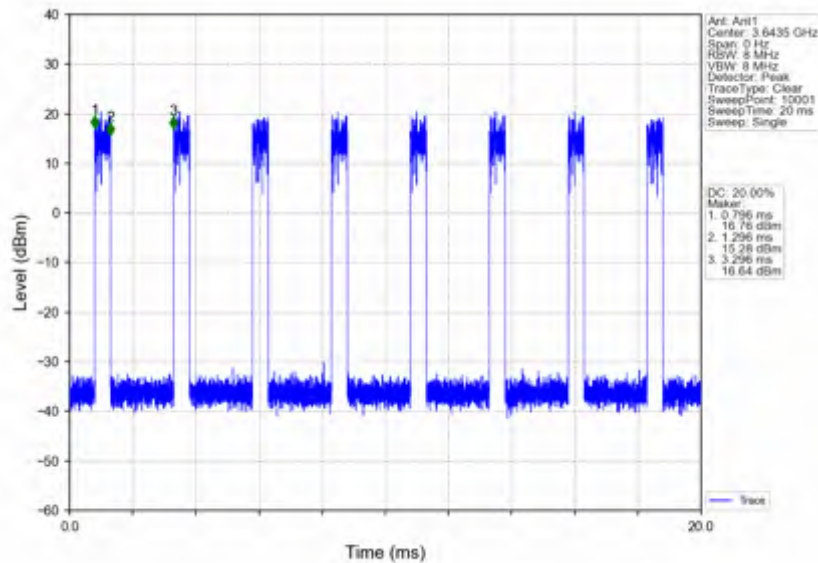
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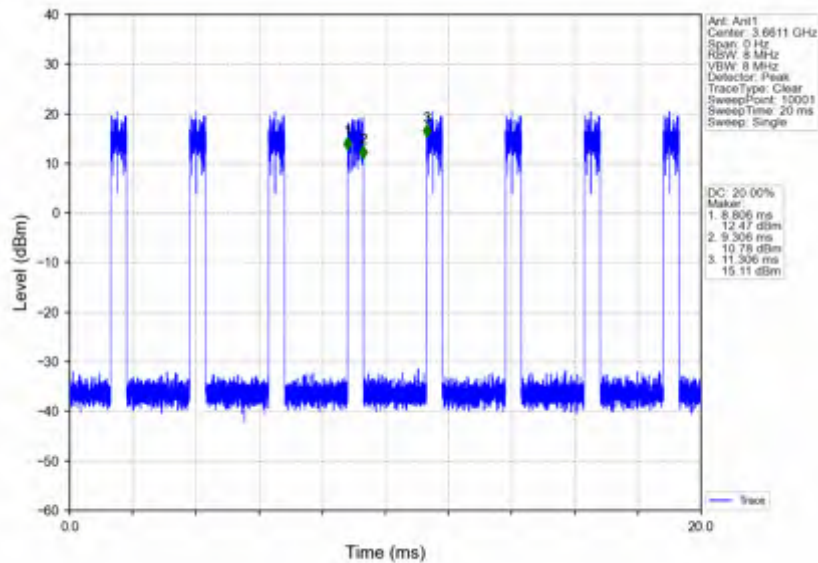
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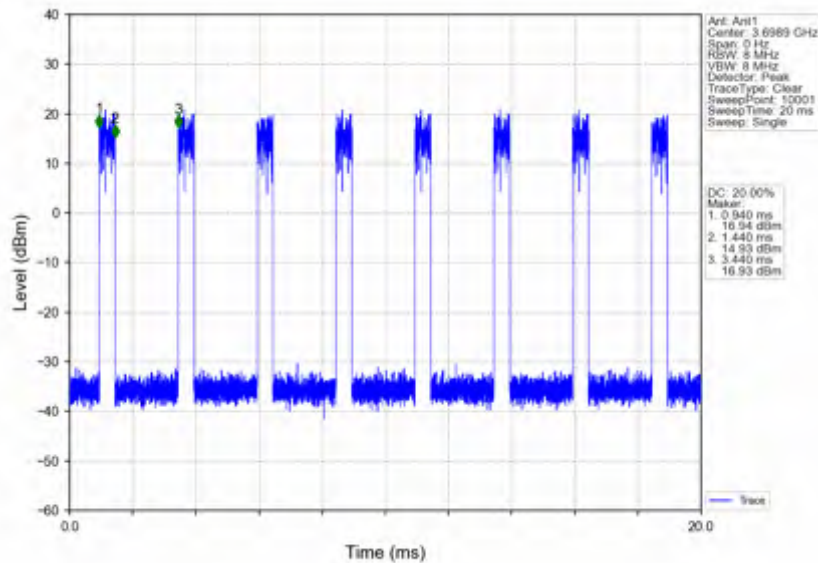
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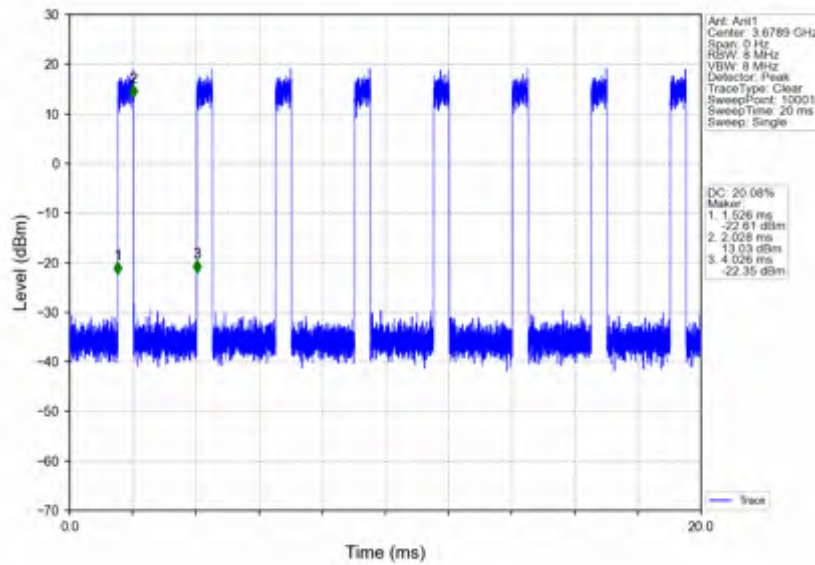
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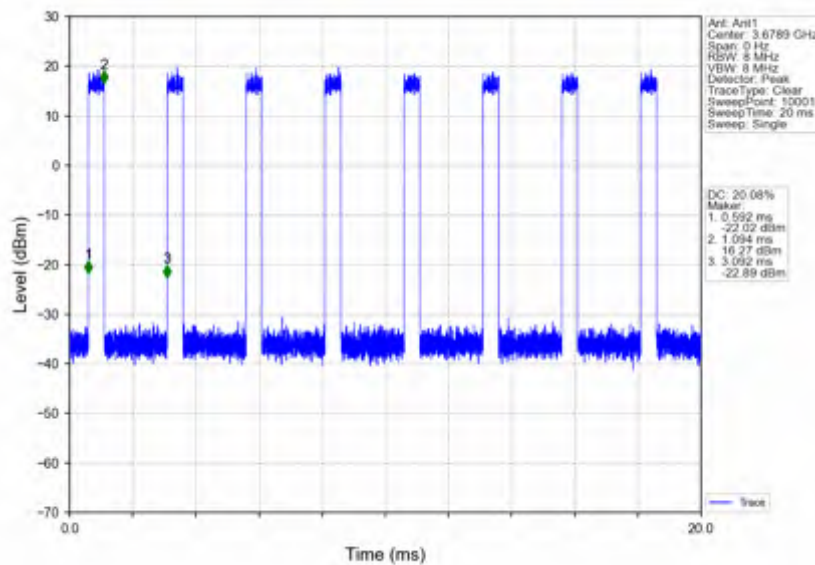
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Inner_Full

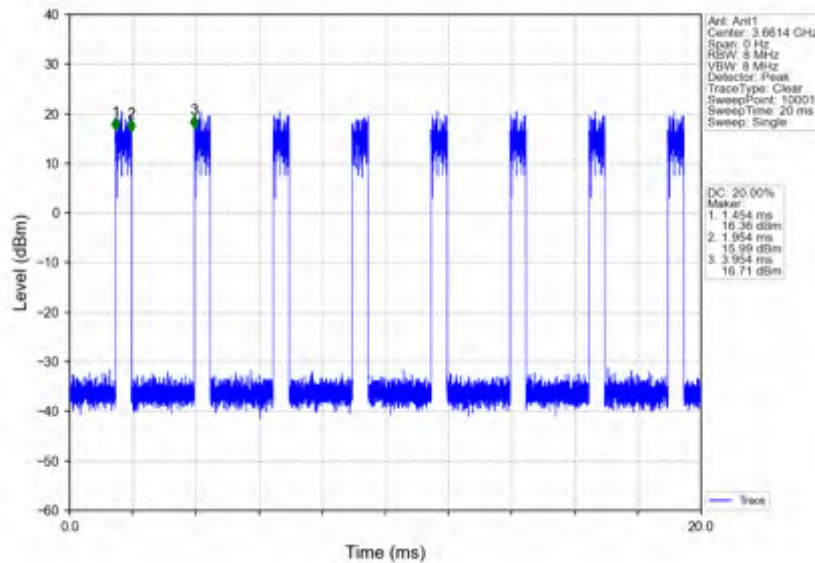


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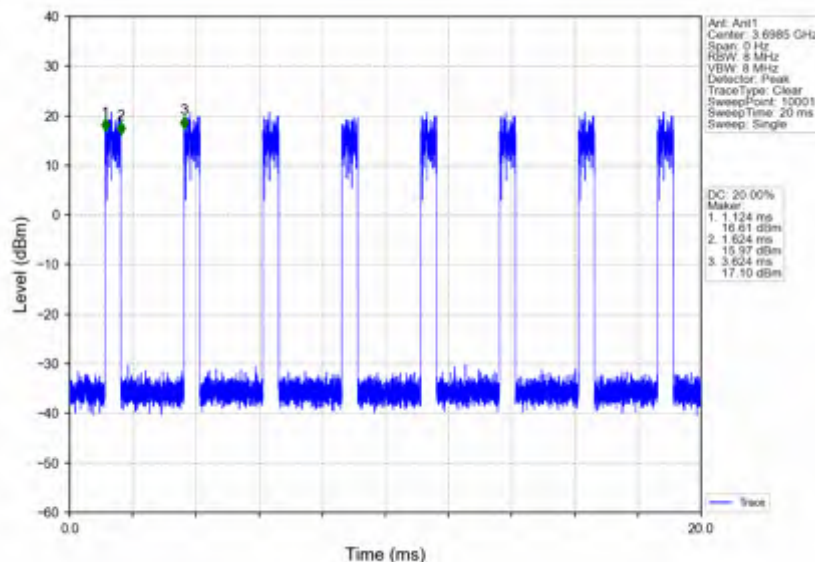
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3679.98MHz_Inner_1RB_Left



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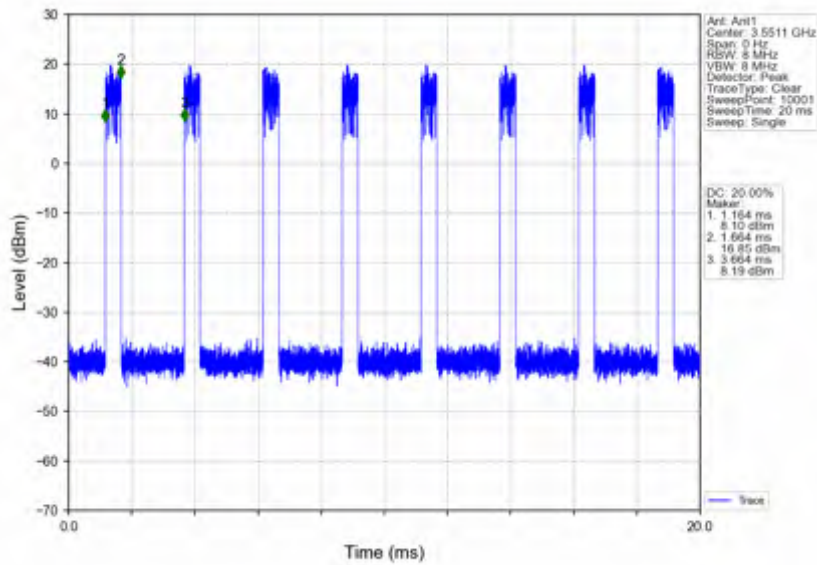
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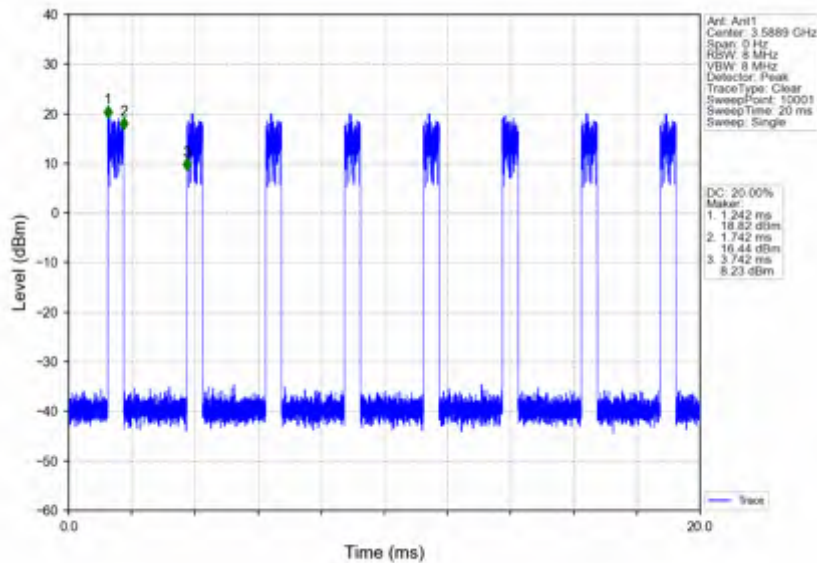
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3570MHz_Edge_1RB_Left



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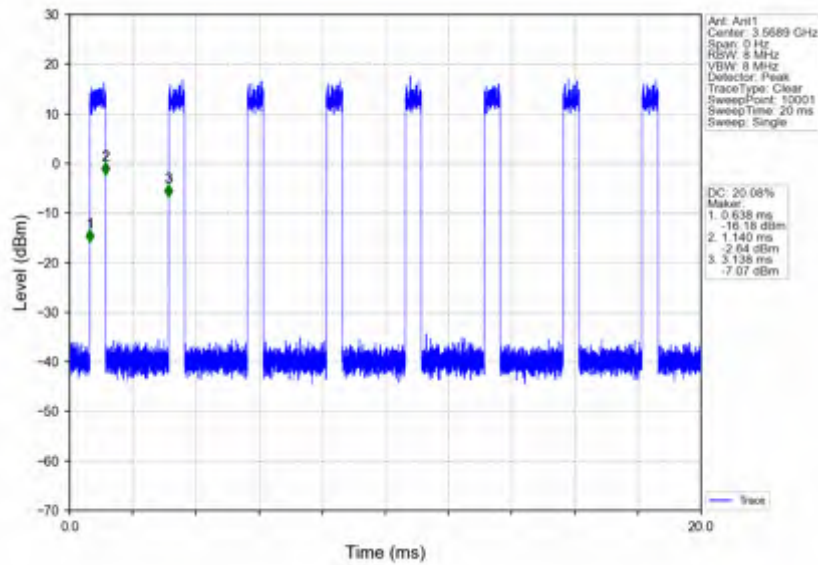
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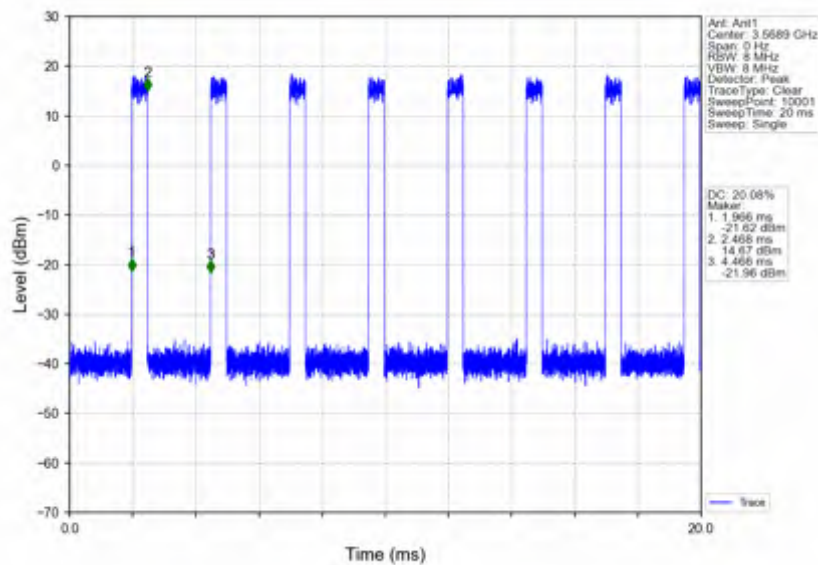
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n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3570MHz_Outer_Full



n78d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3570MHz_Inner_Full



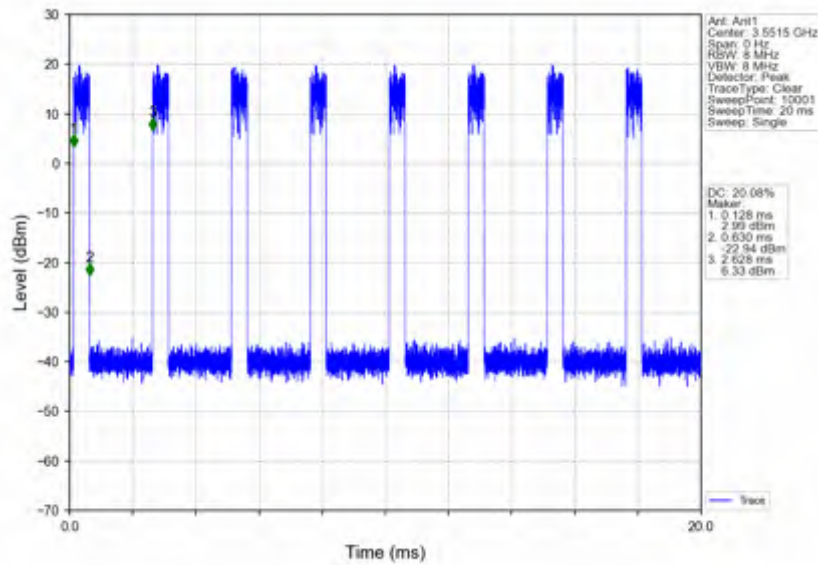
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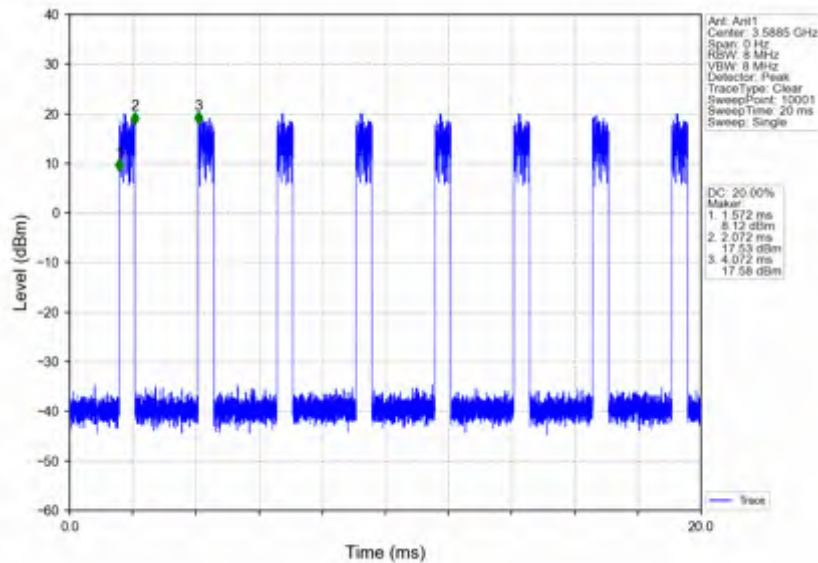
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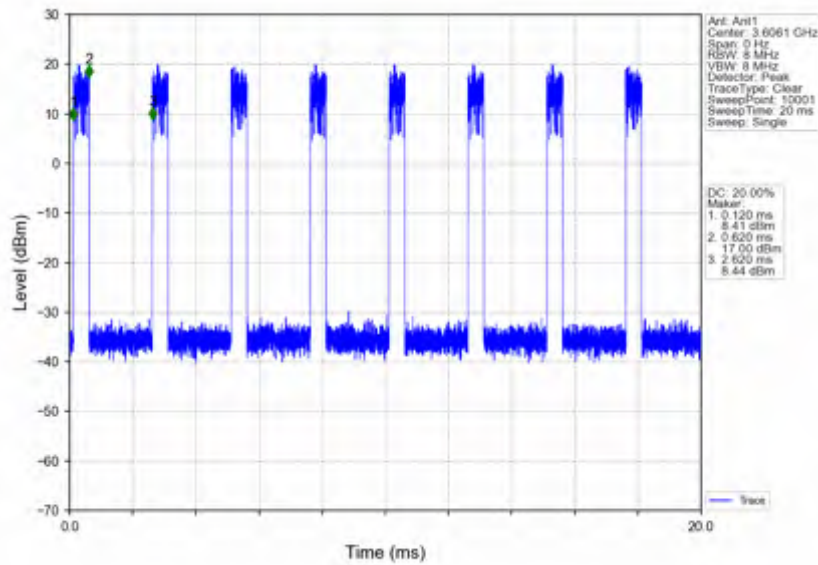


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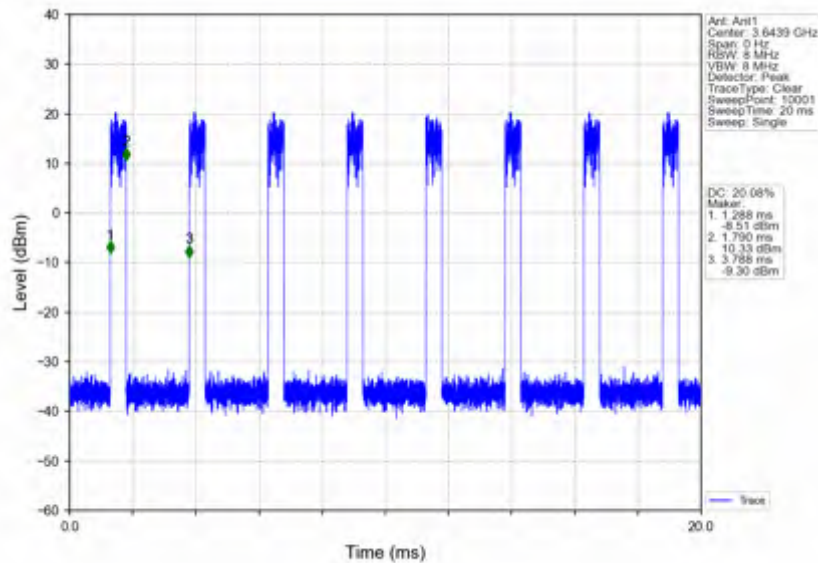
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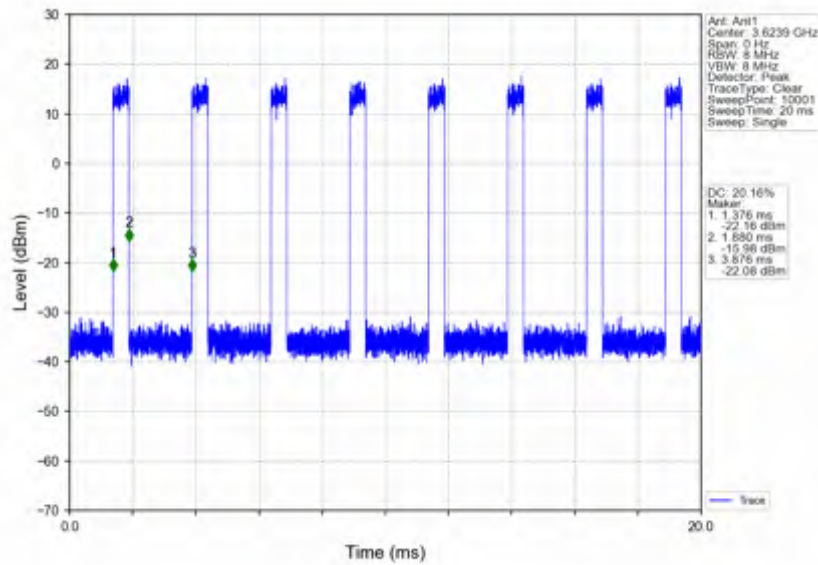
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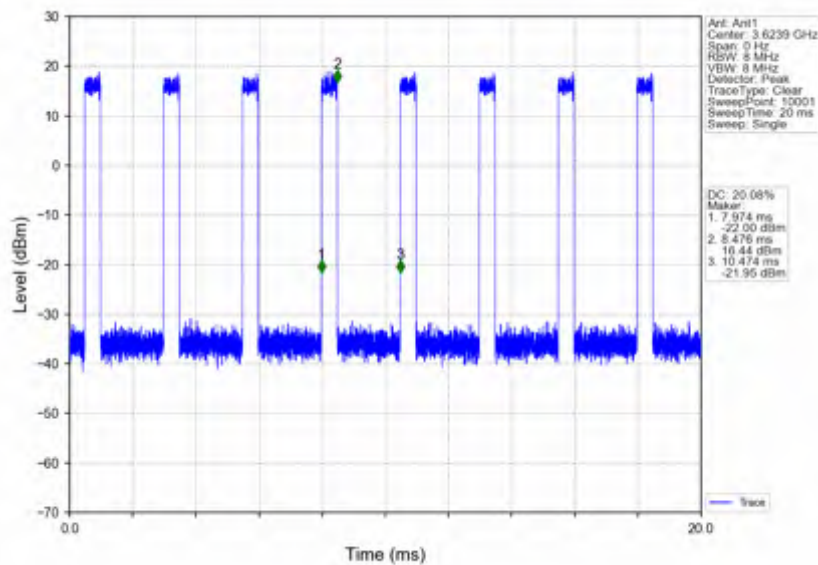
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