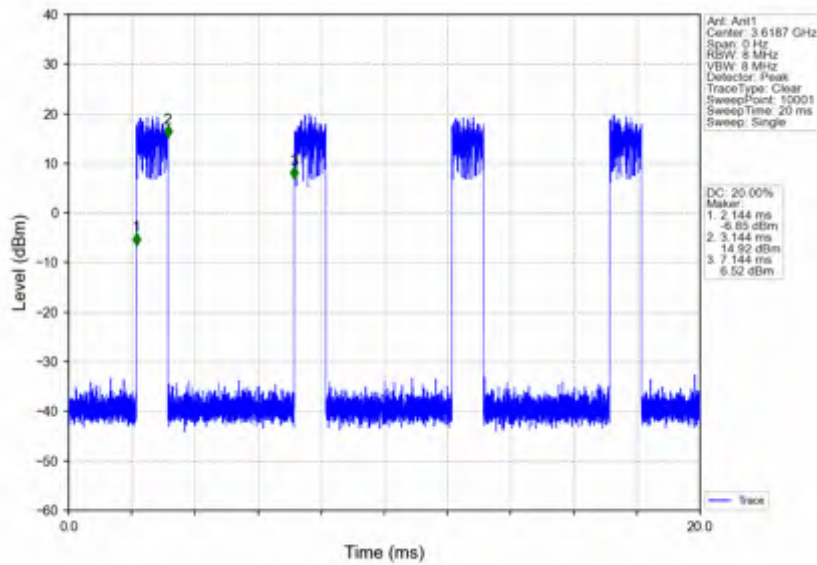
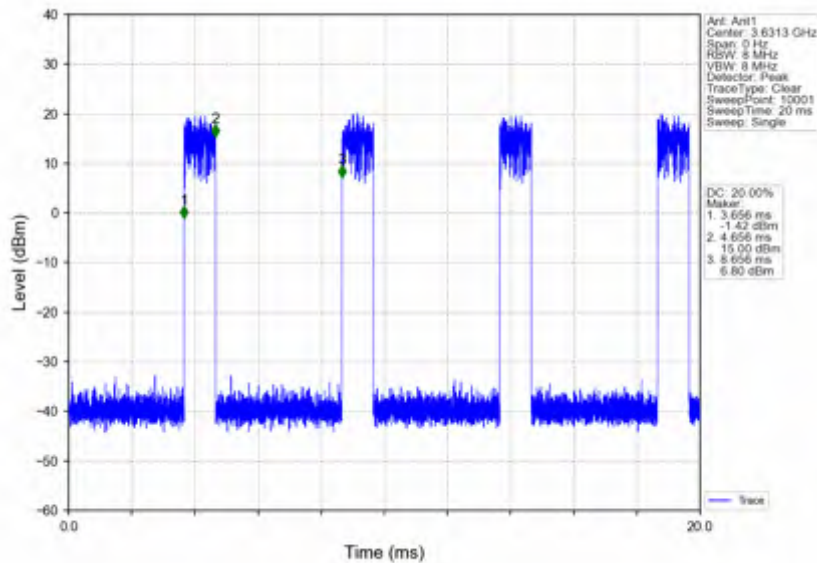


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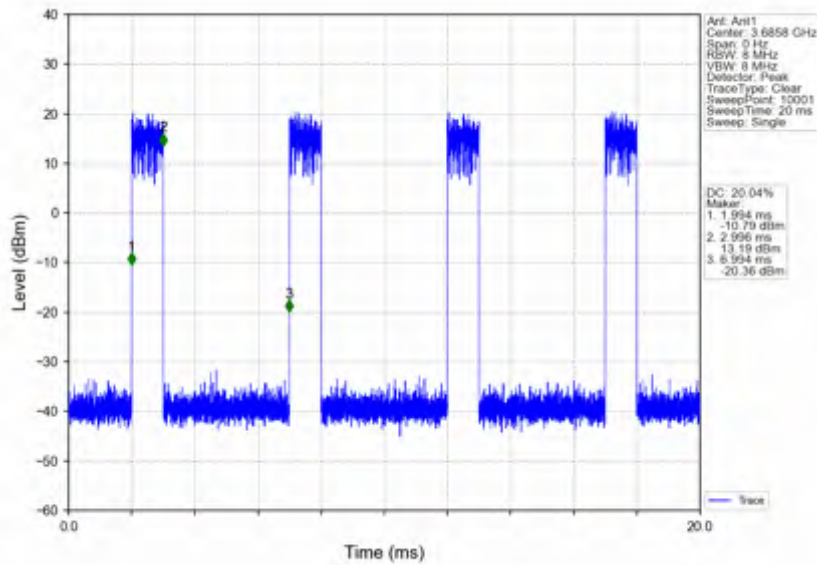
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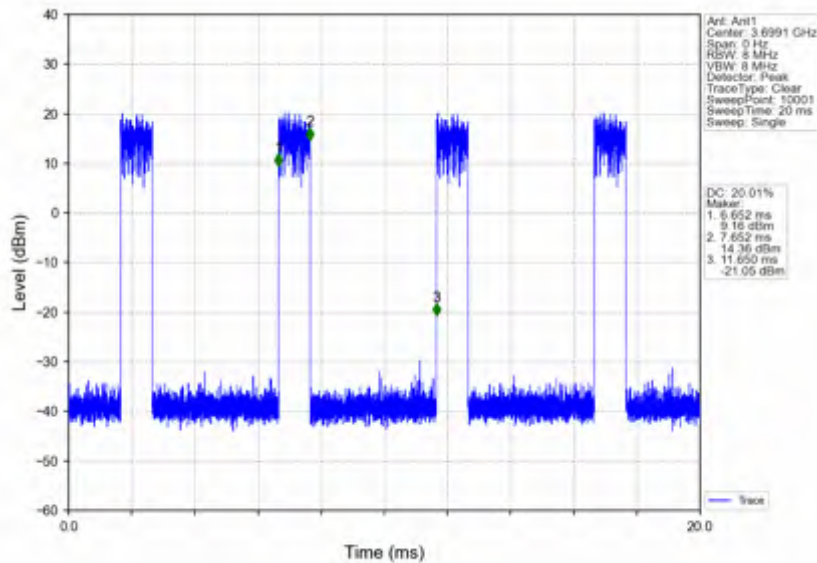
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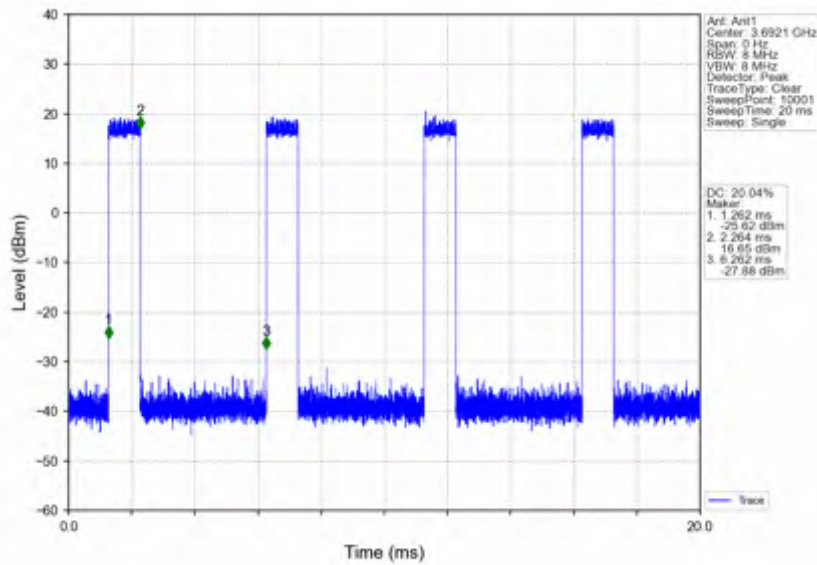
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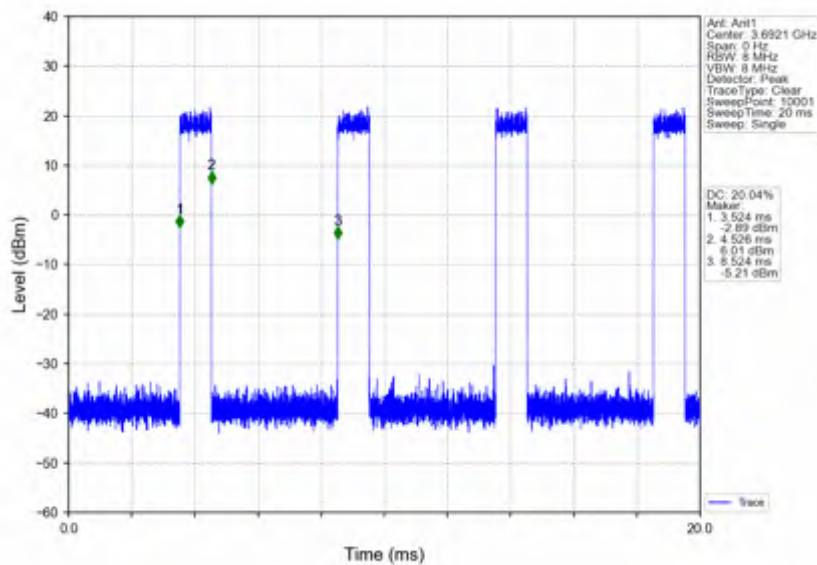
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_3692.49MHz_Outer_Full



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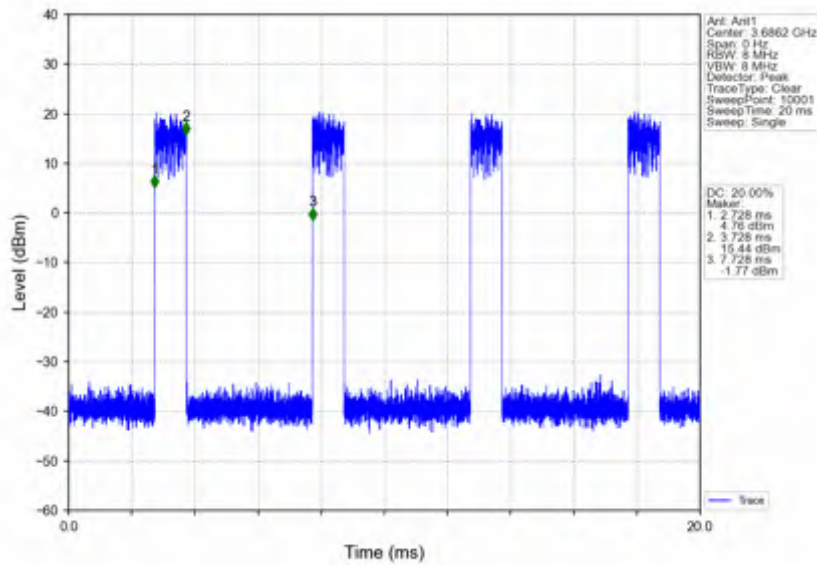
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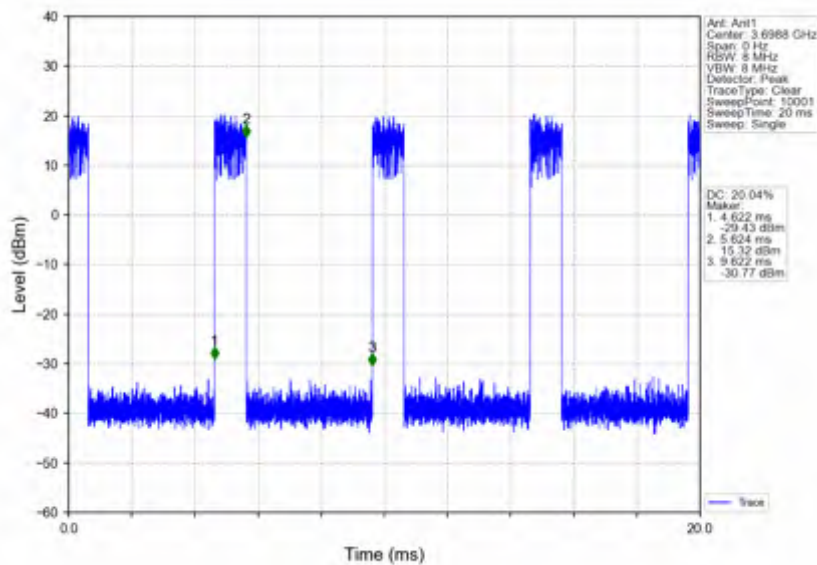
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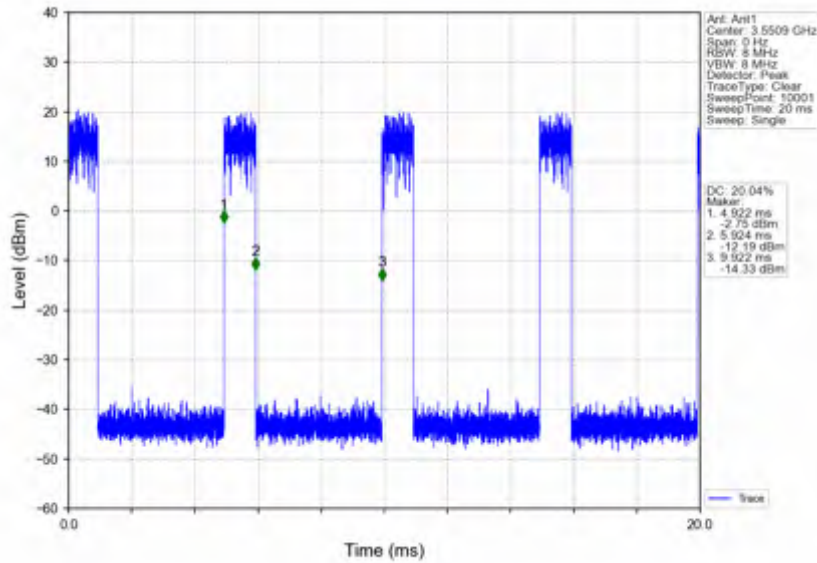
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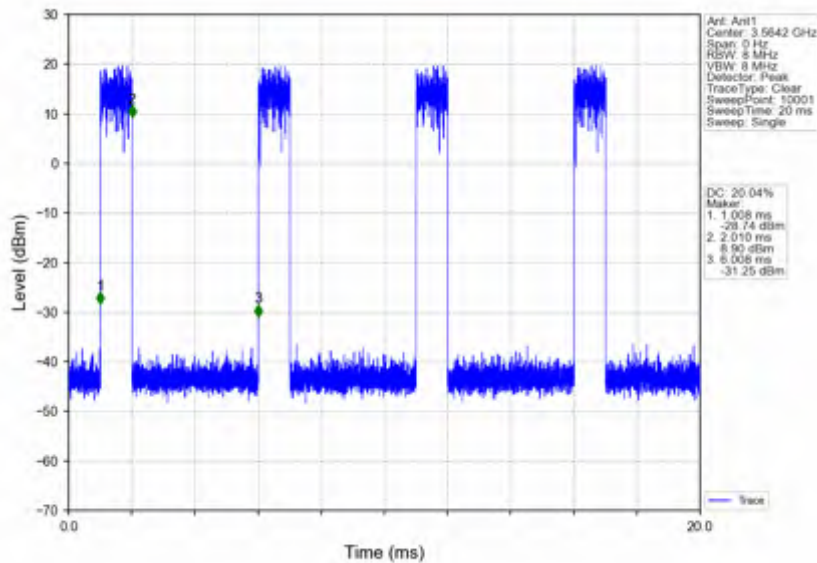
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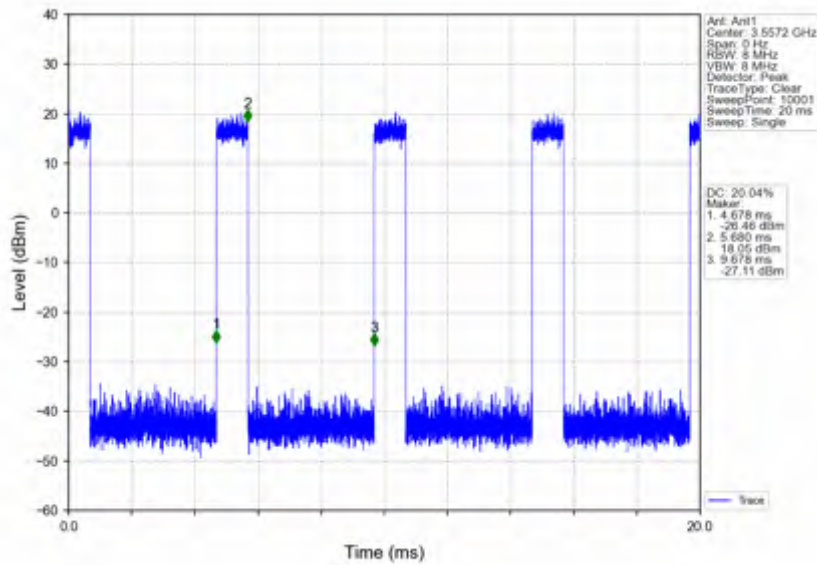


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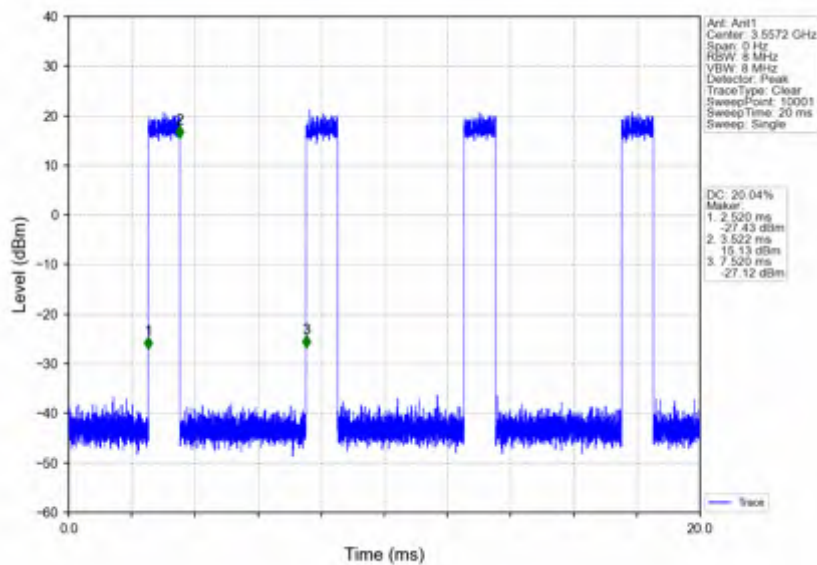
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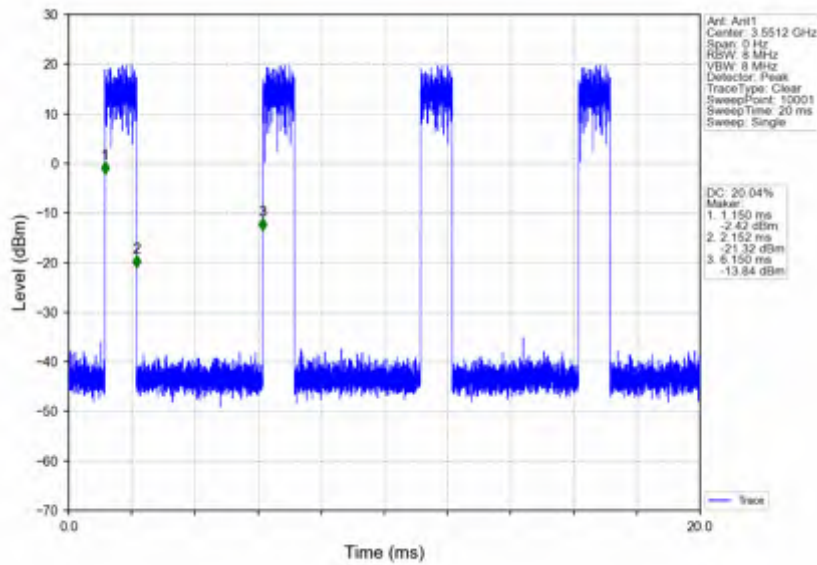
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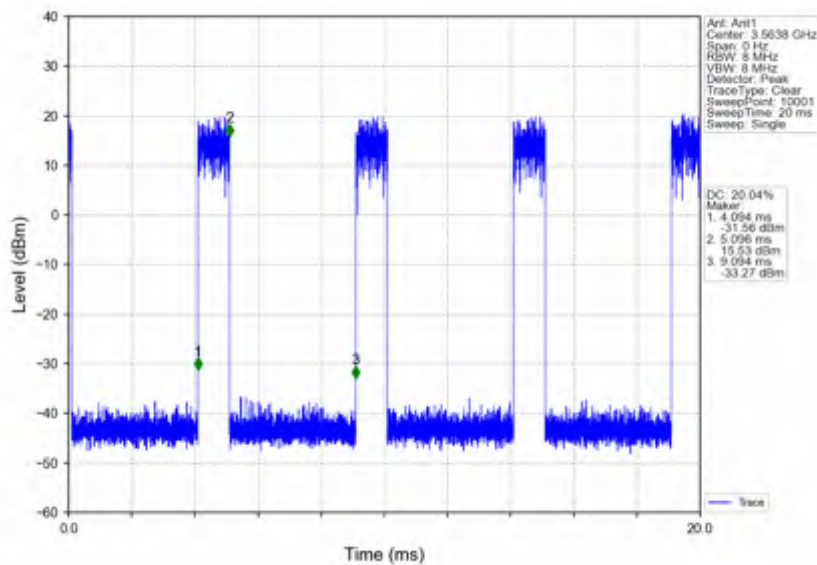
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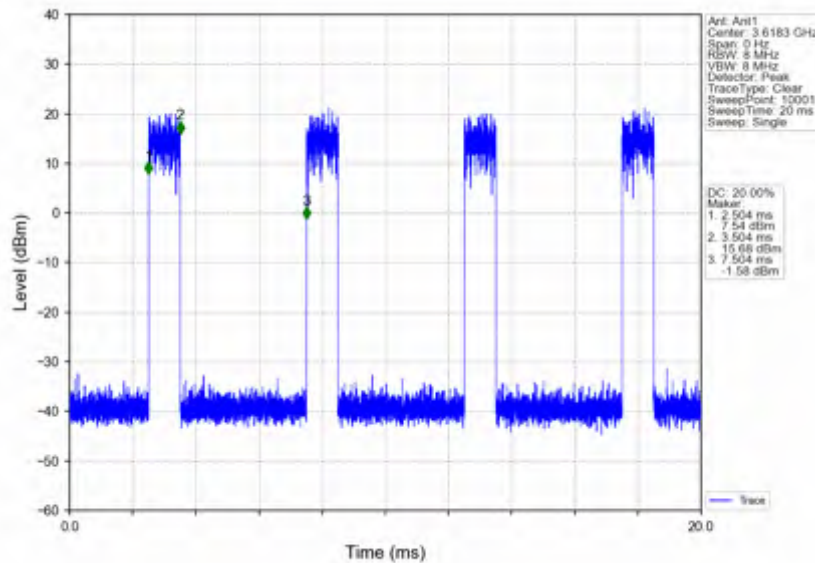
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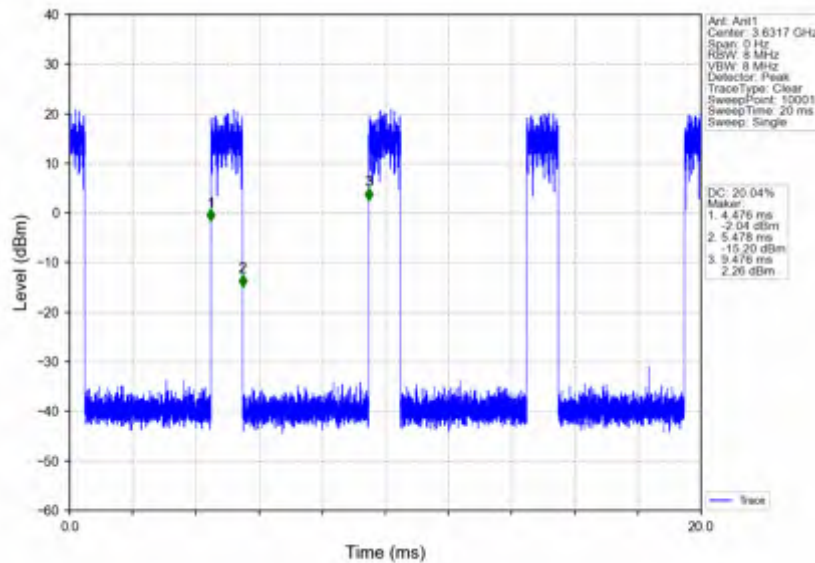
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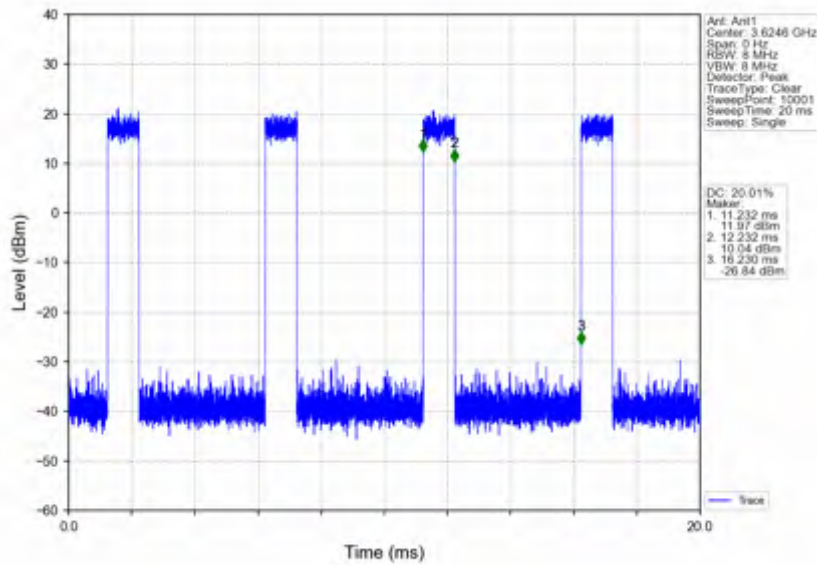
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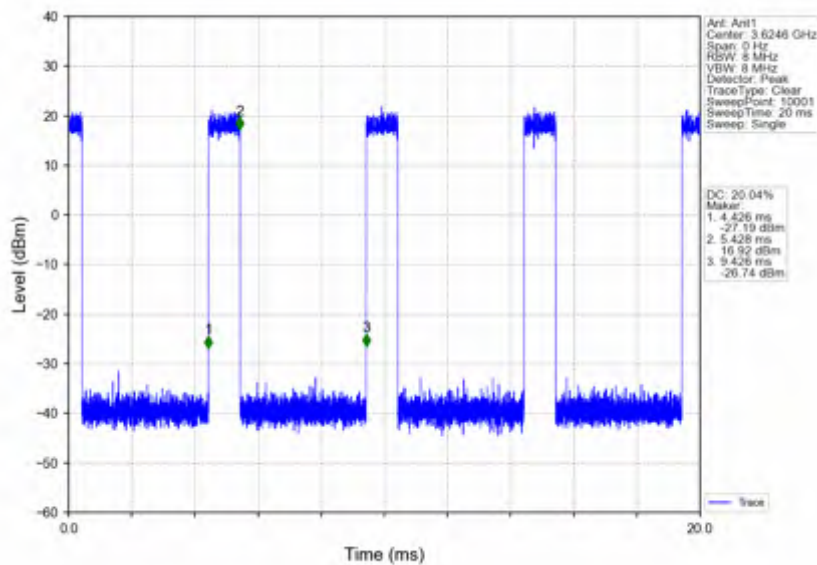
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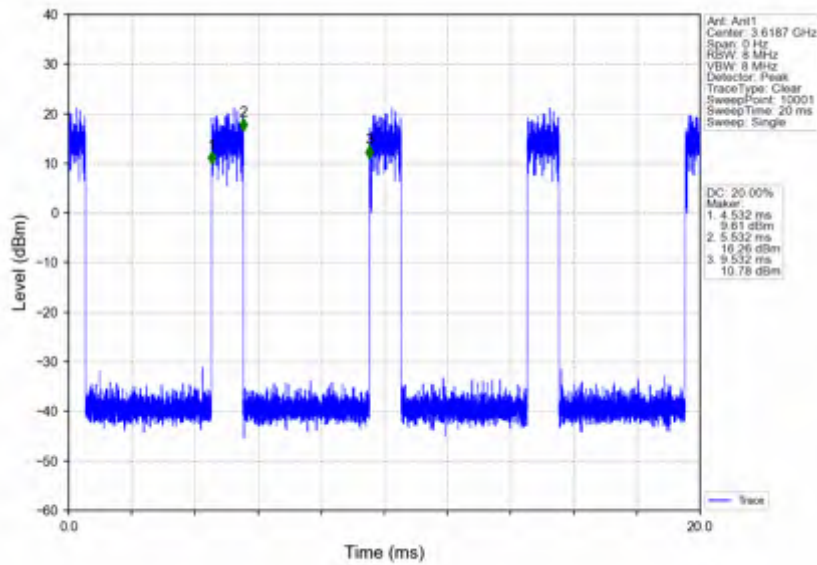
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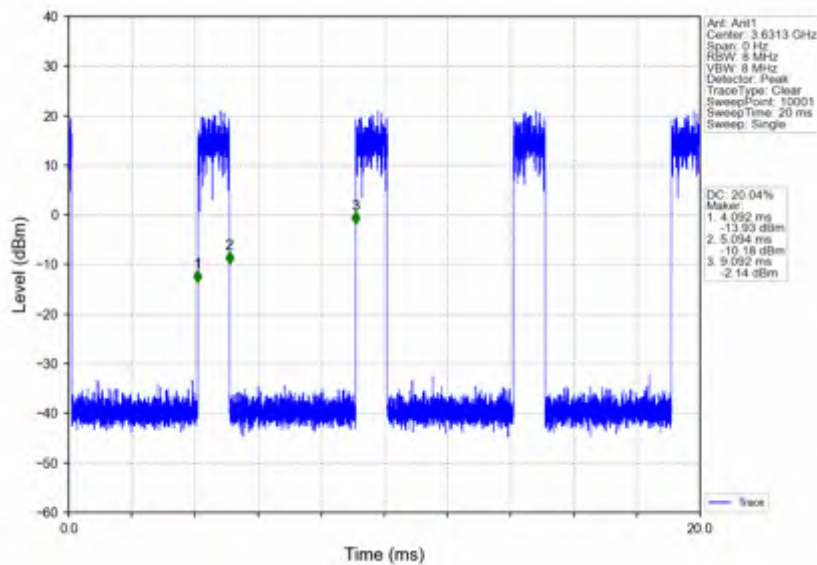
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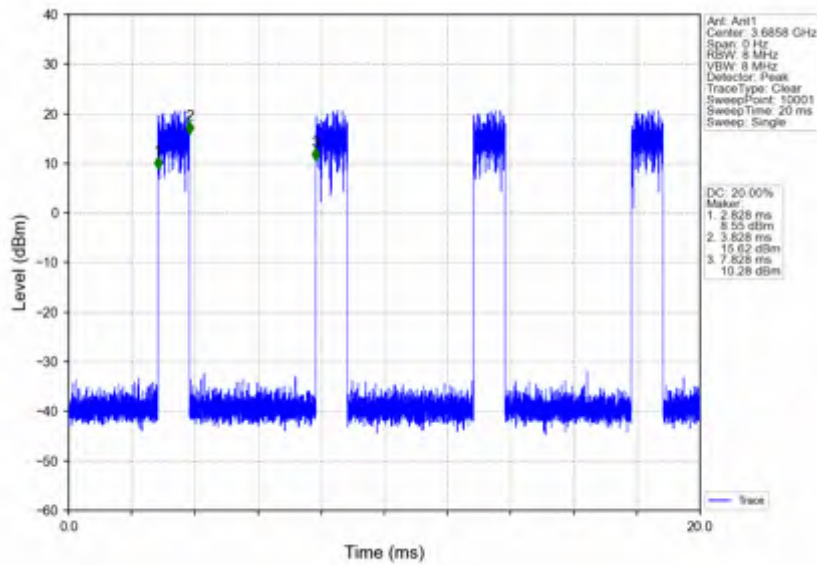
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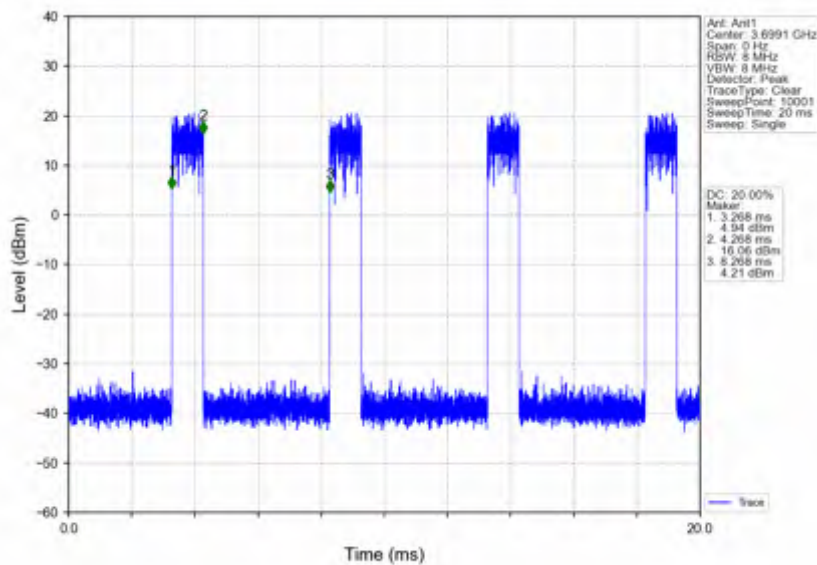
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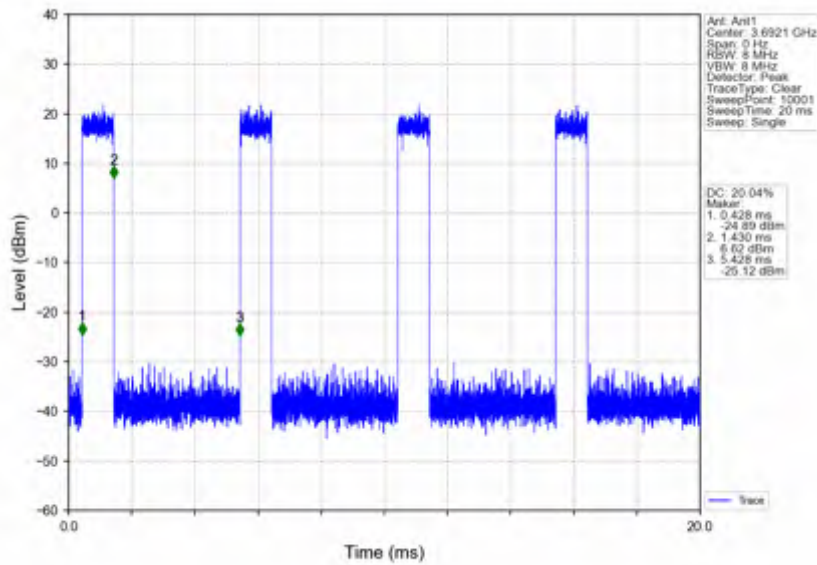
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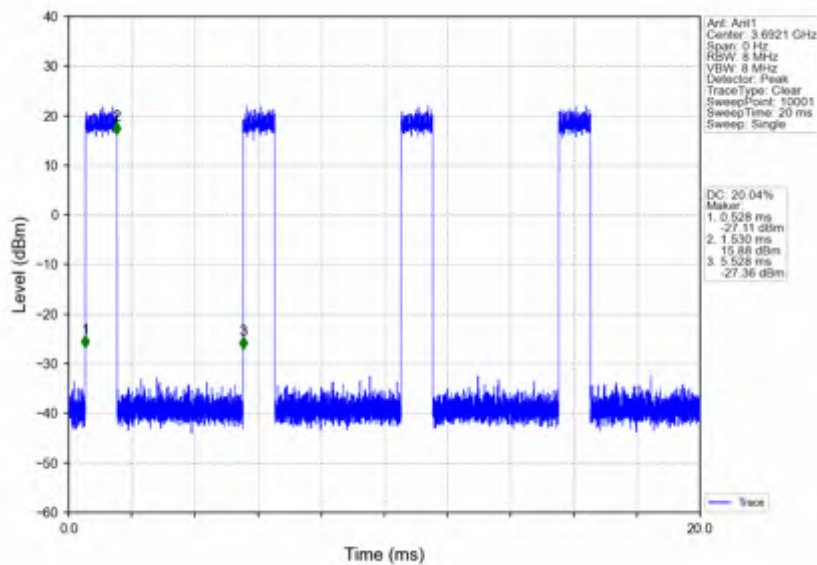
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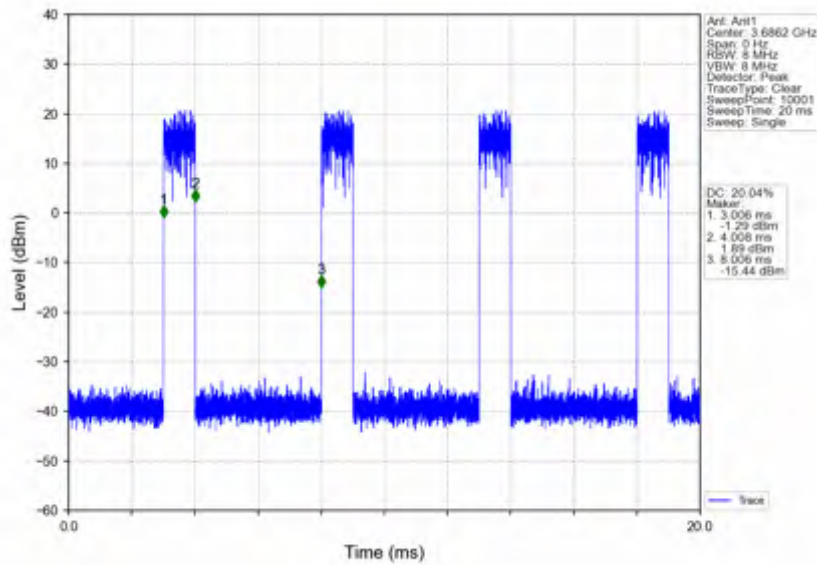


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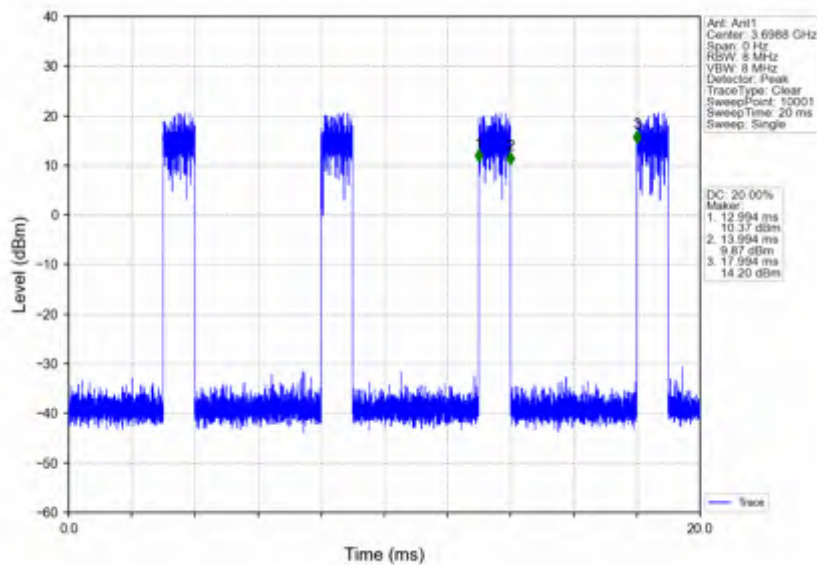
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_3692.49MHz_Inner_1RB_Left



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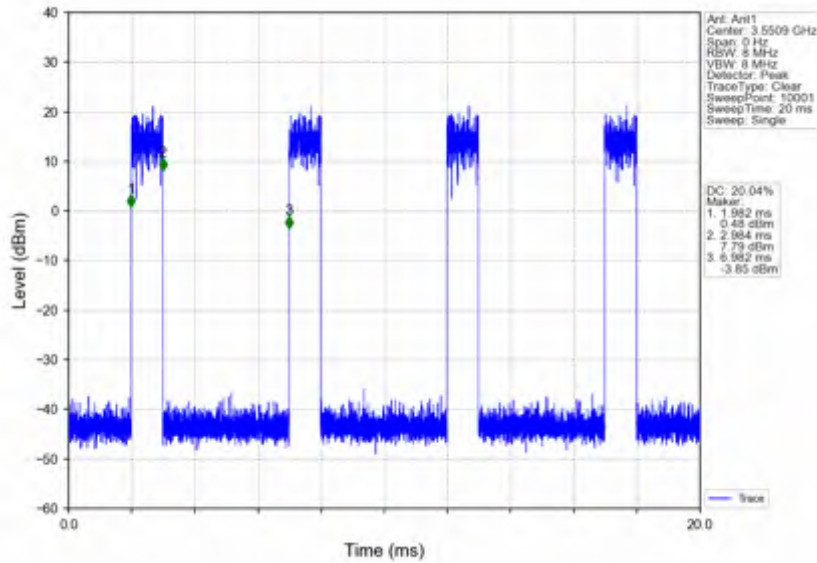


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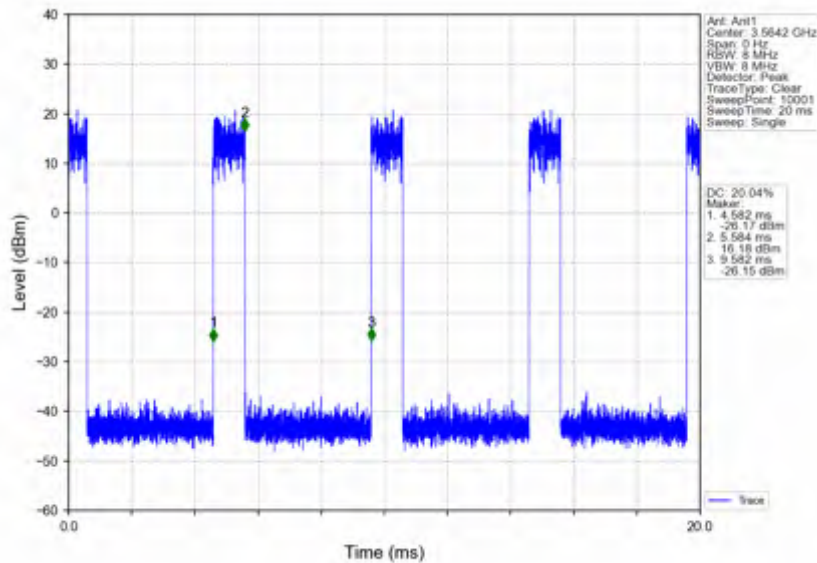
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_3557.52MHz_Edge_1RB_Left



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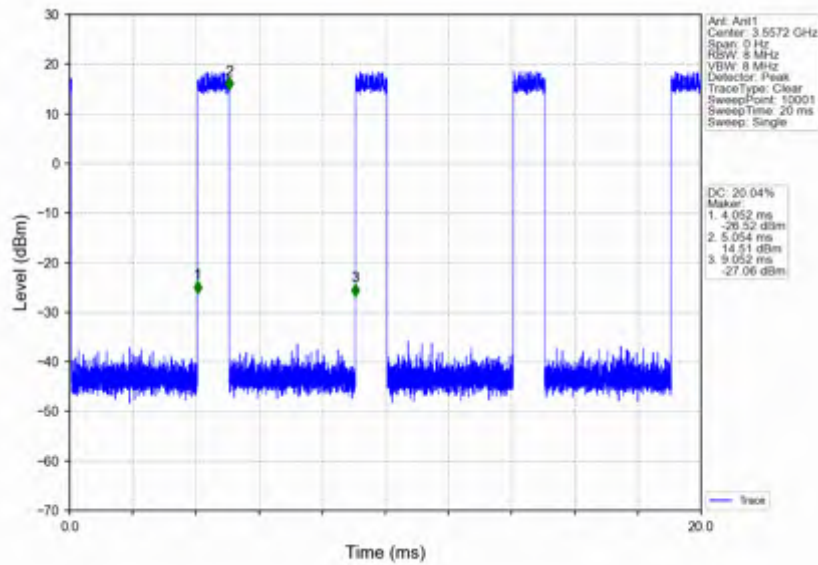


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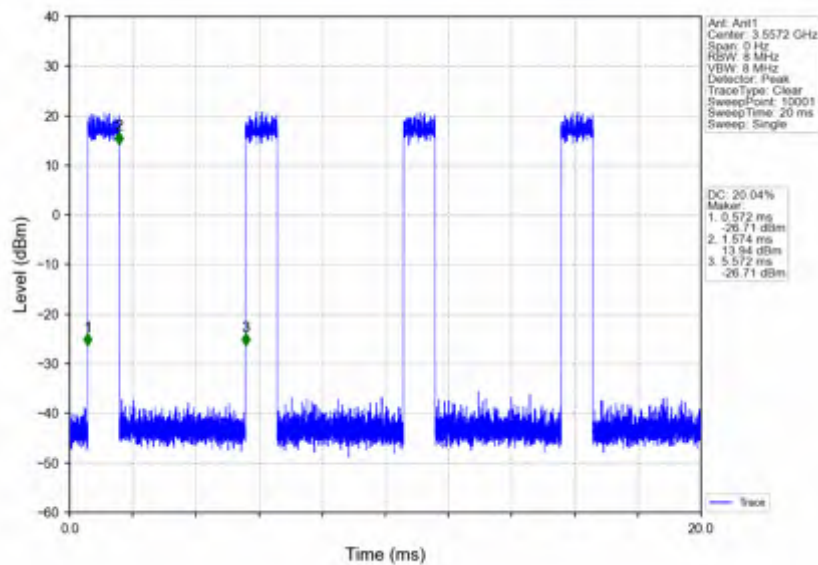
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_3557.52MHz_Outer_Full



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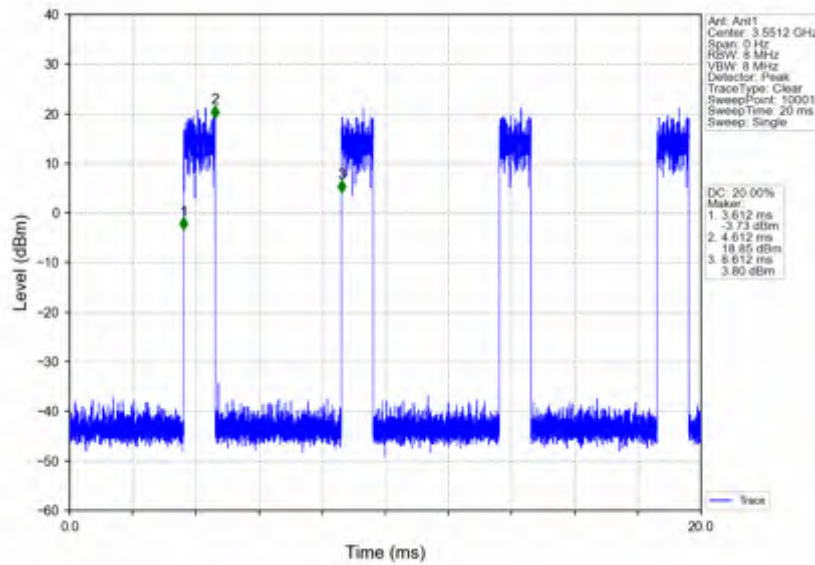


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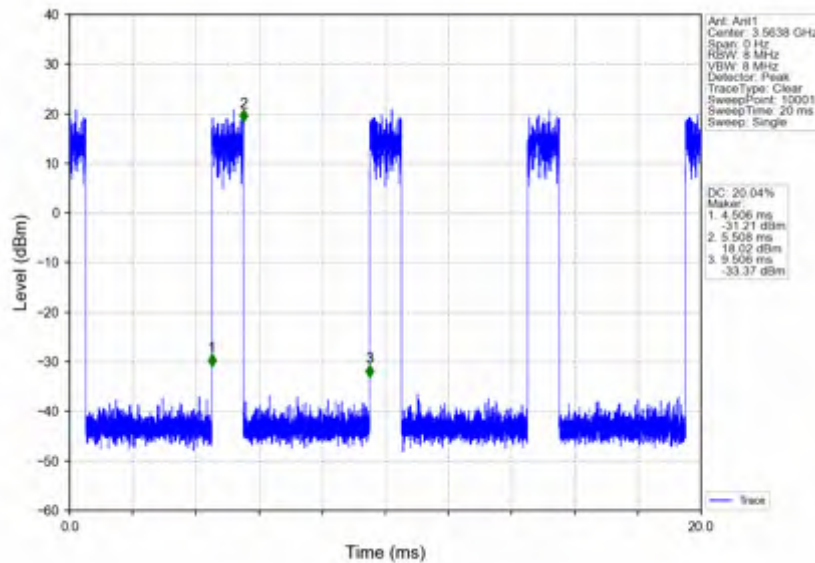
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_3557.52MHz_Inner_1RB_Left



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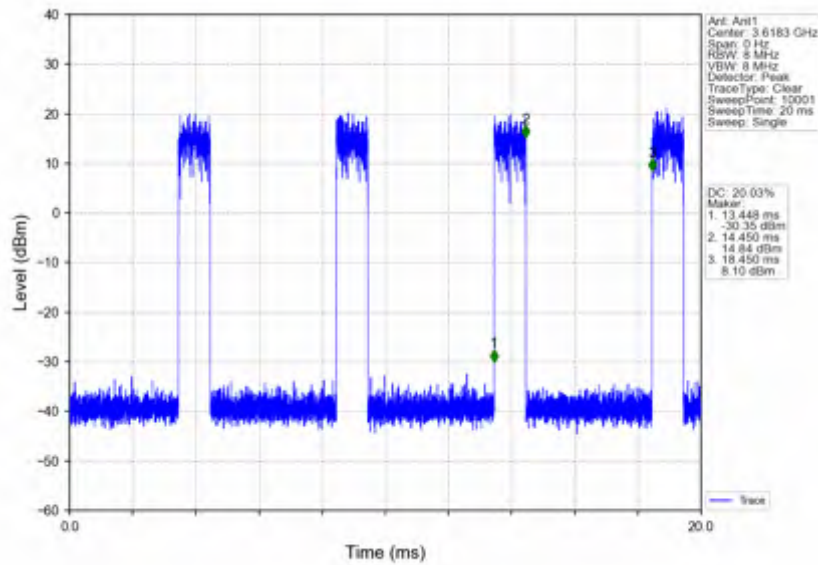
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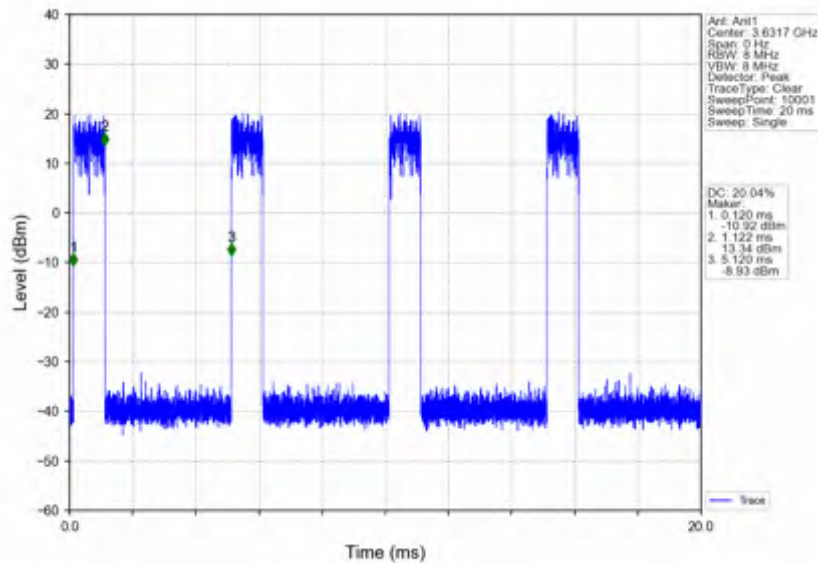
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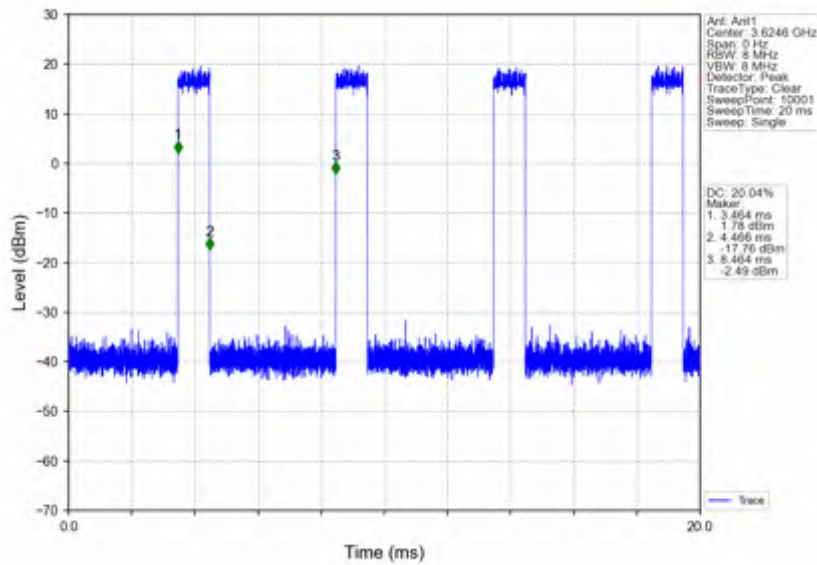
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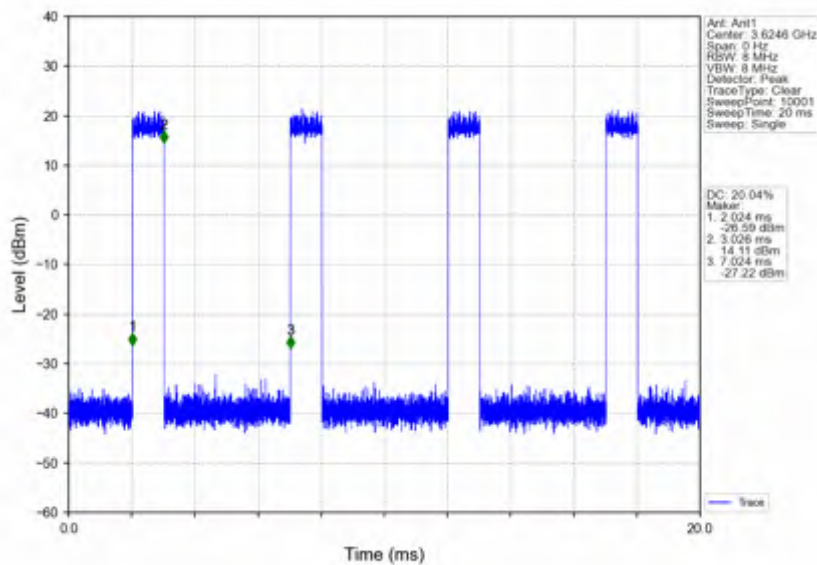
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full



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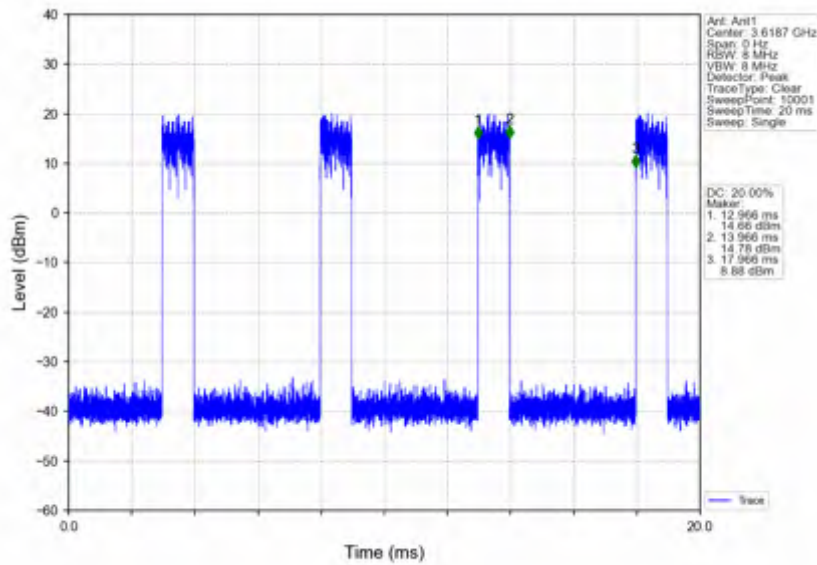


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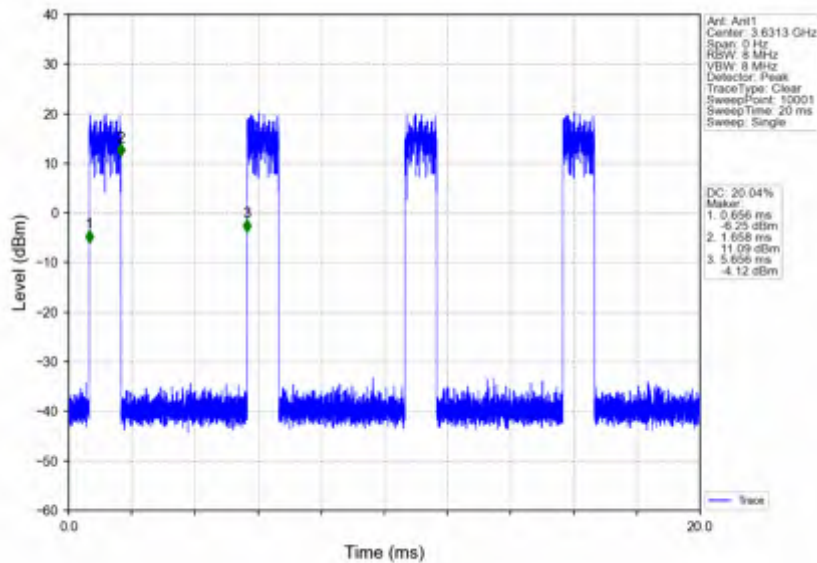
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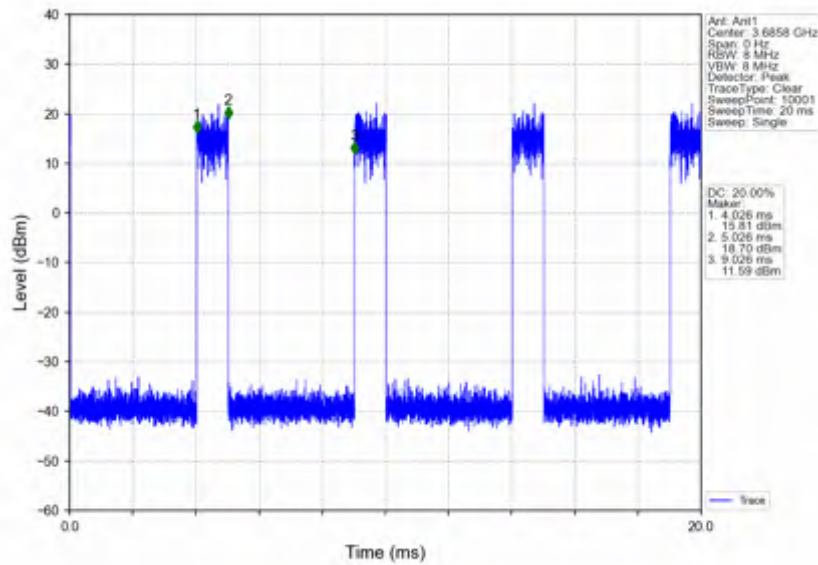
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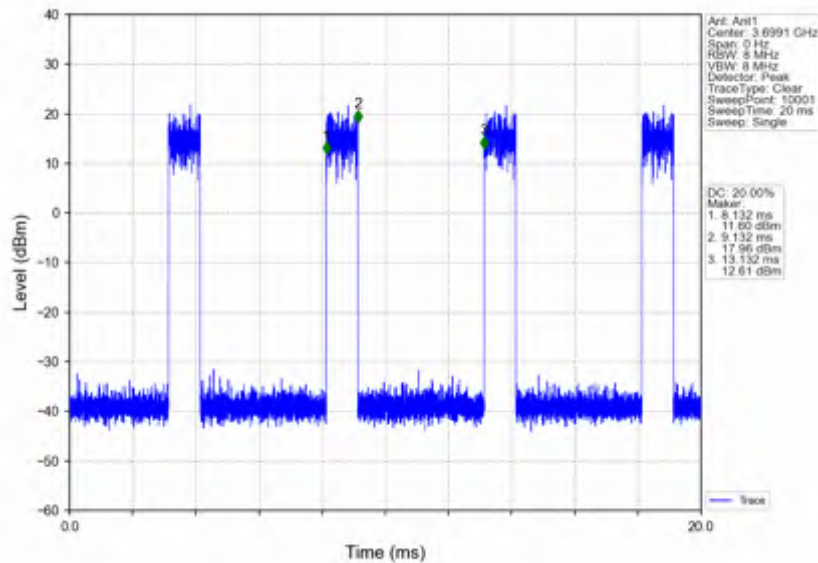
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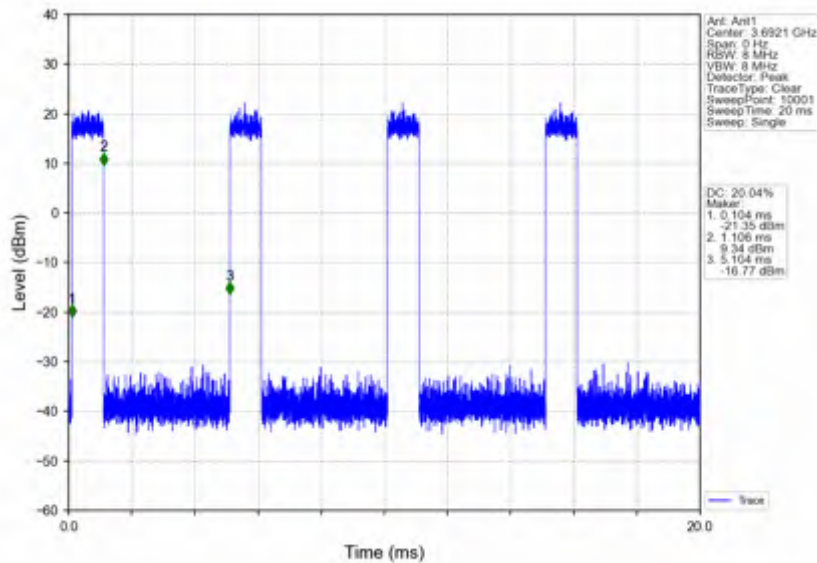
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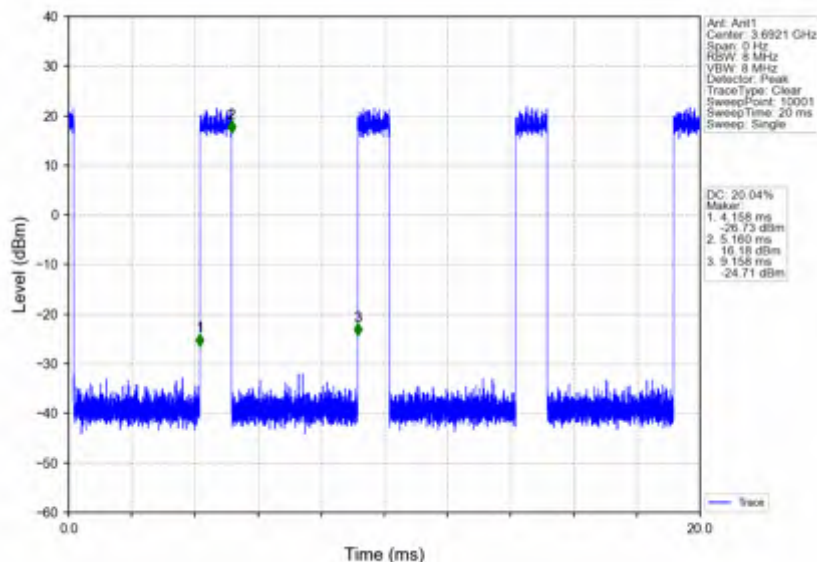
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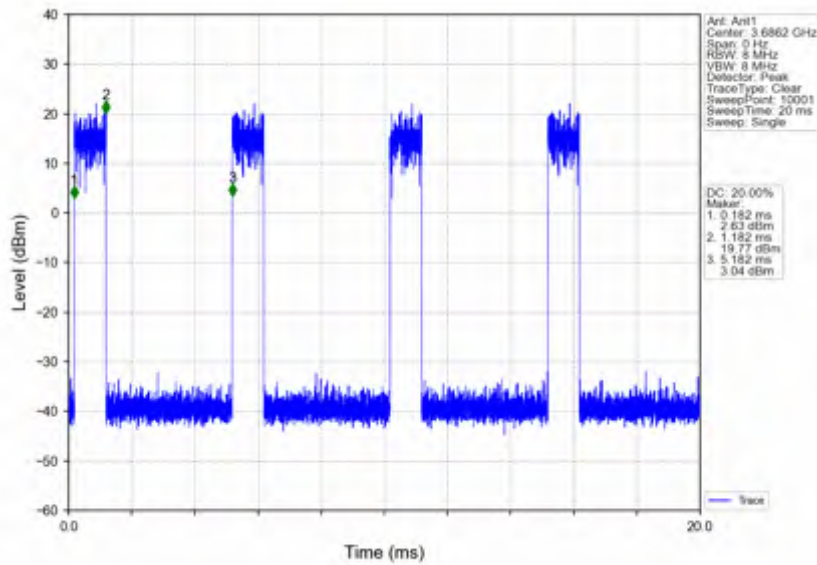
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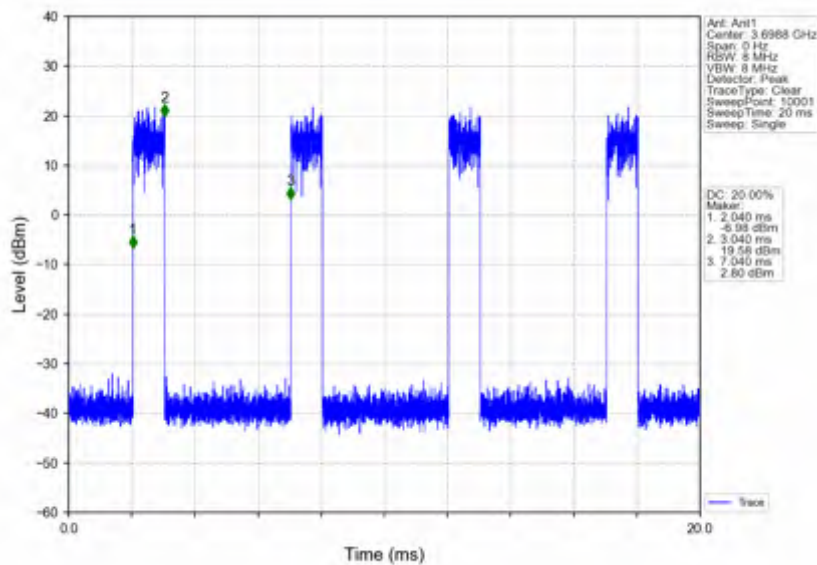
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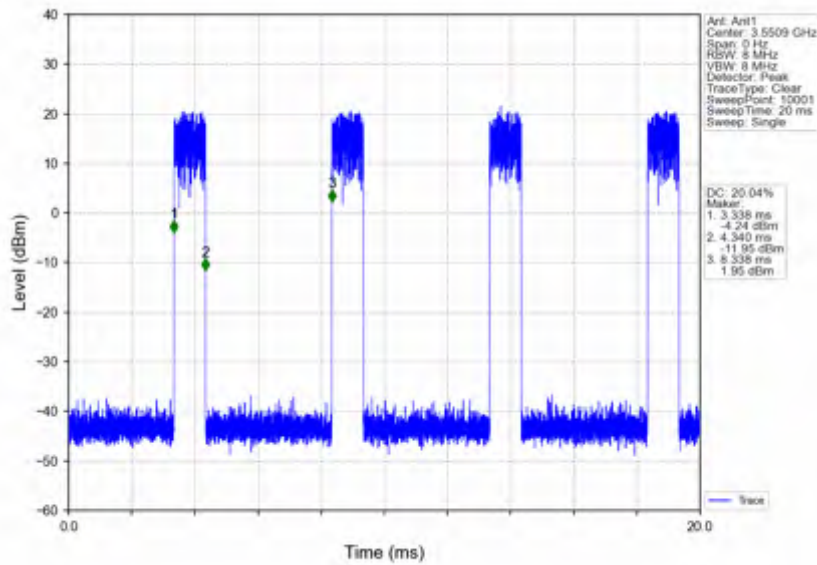
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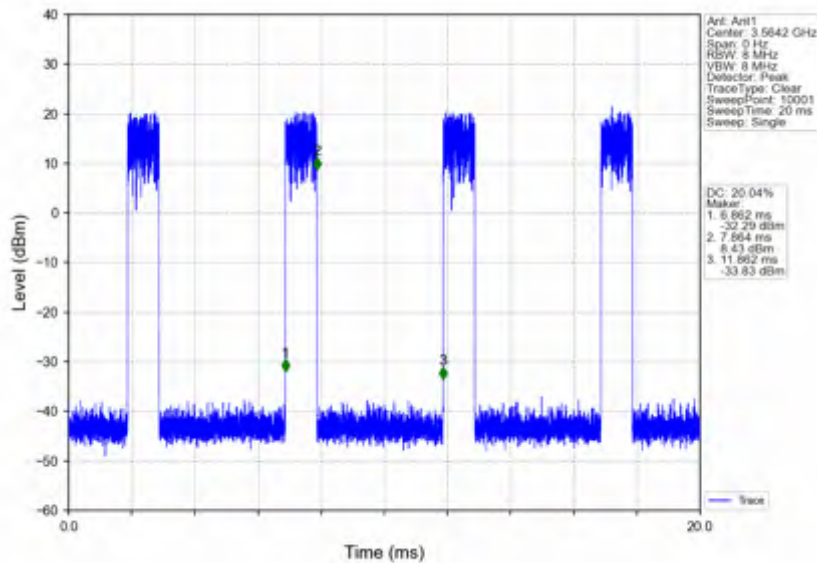
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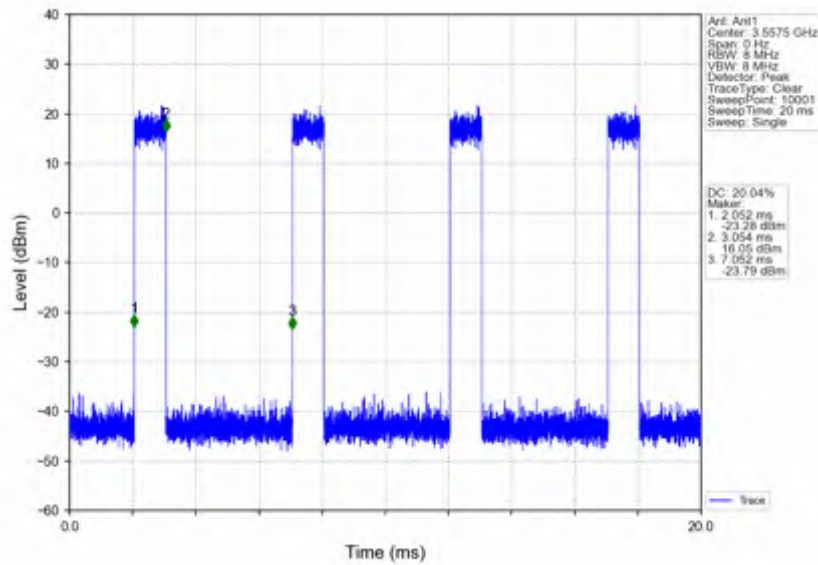
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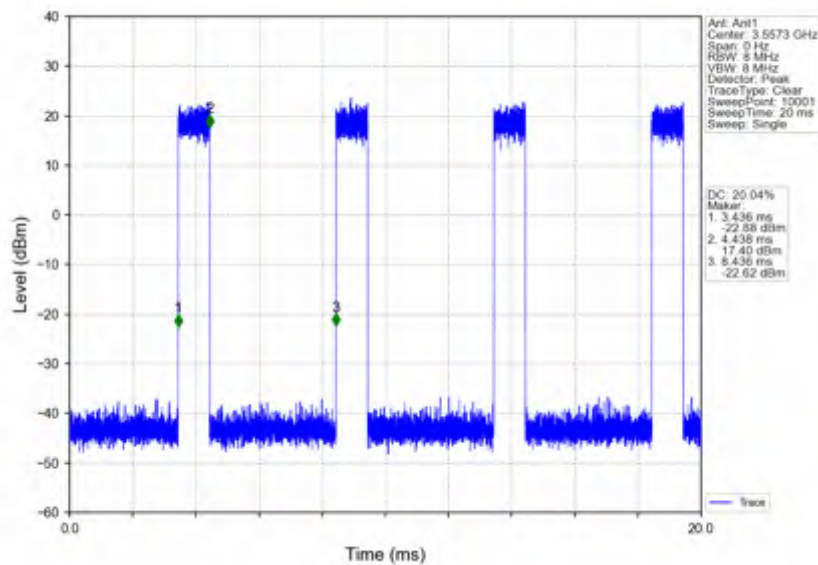
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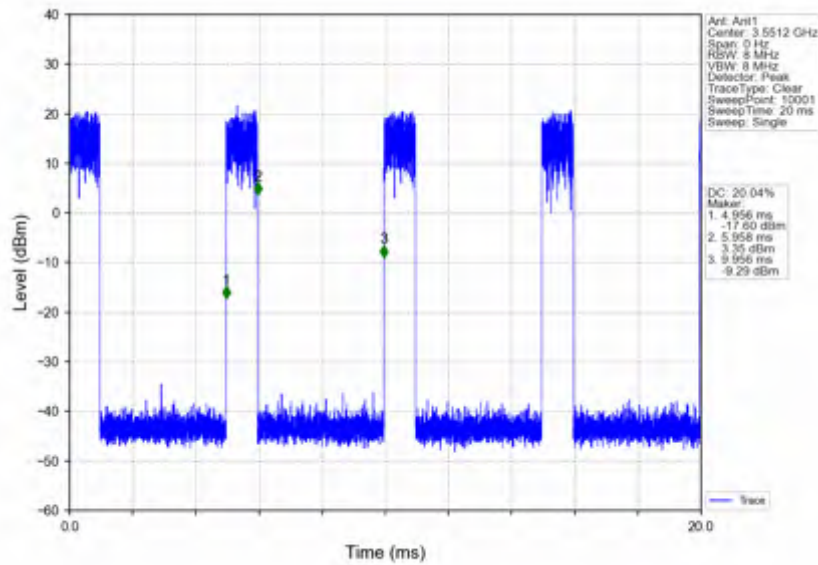


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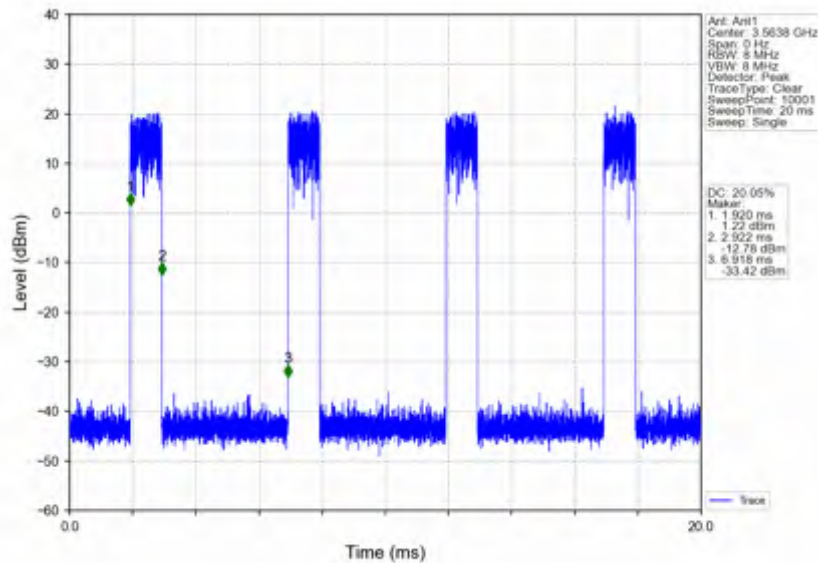
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3557.52MHz_Inner_1RB_Left



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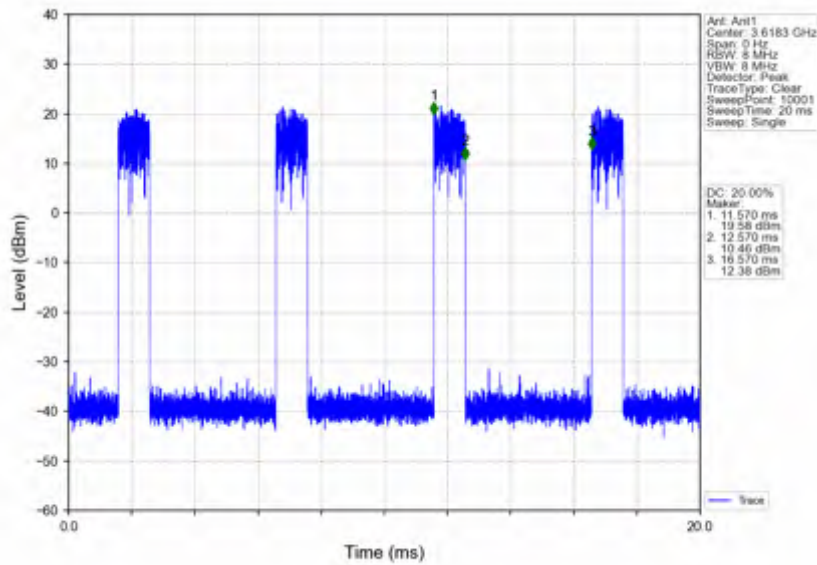


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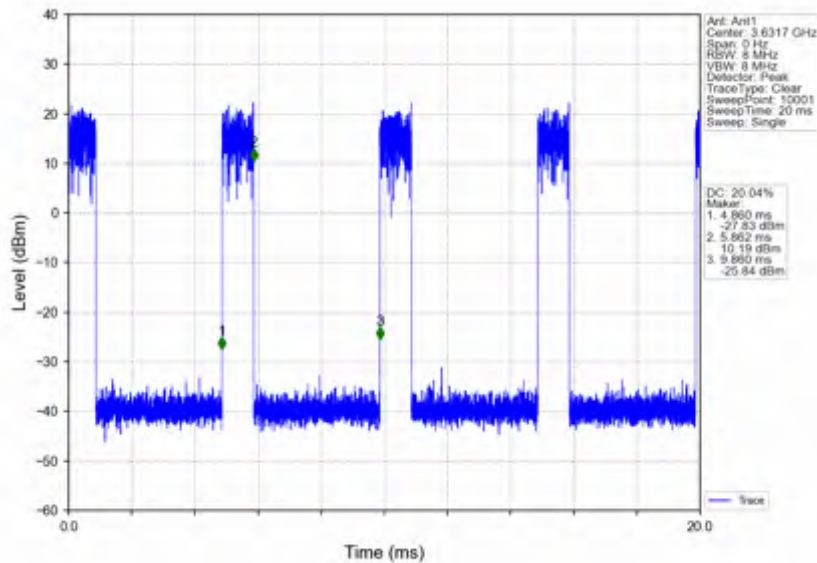
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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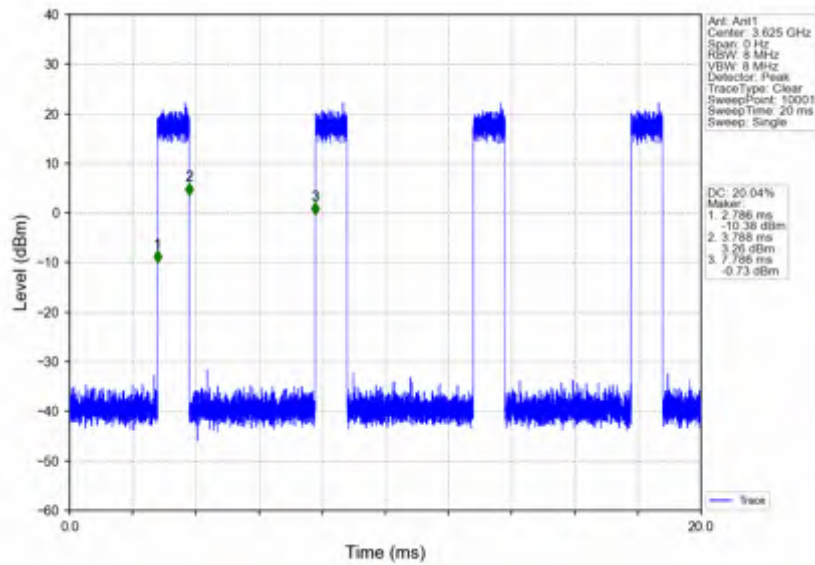
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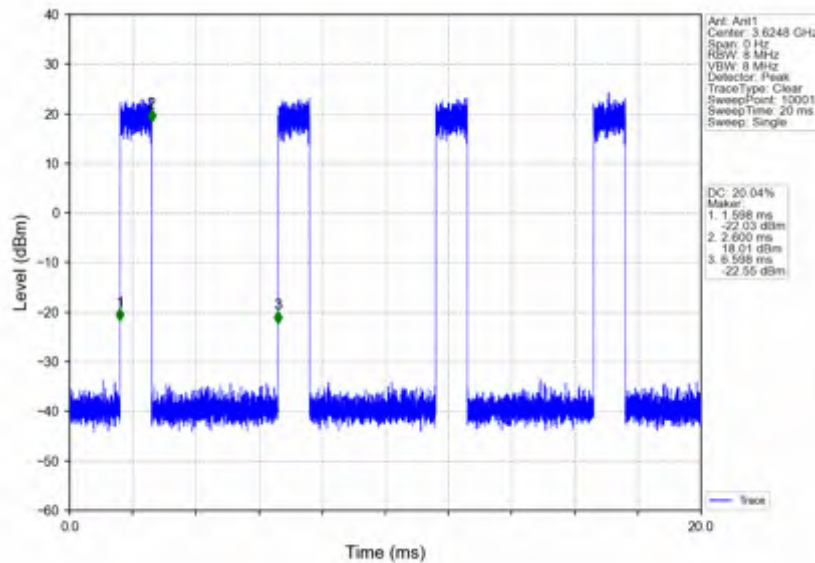
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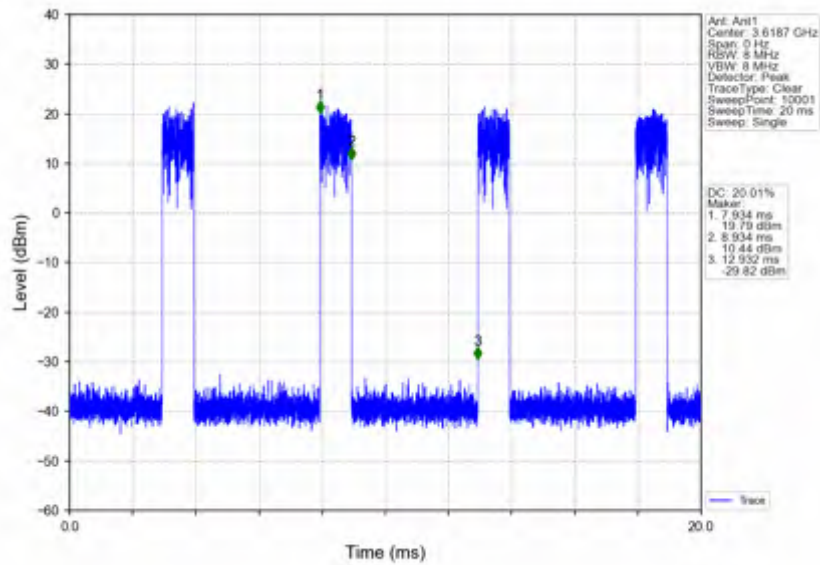
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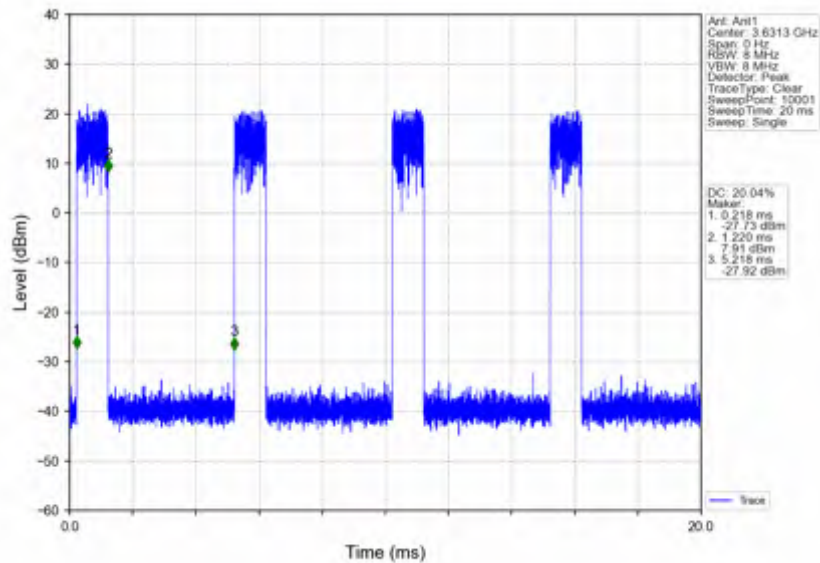
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3624.99MHz_Inner_1RB_Left



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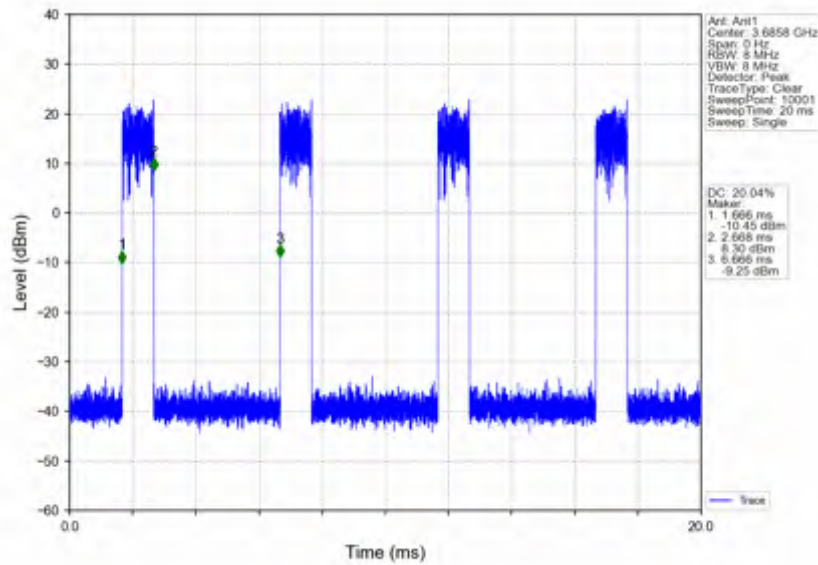


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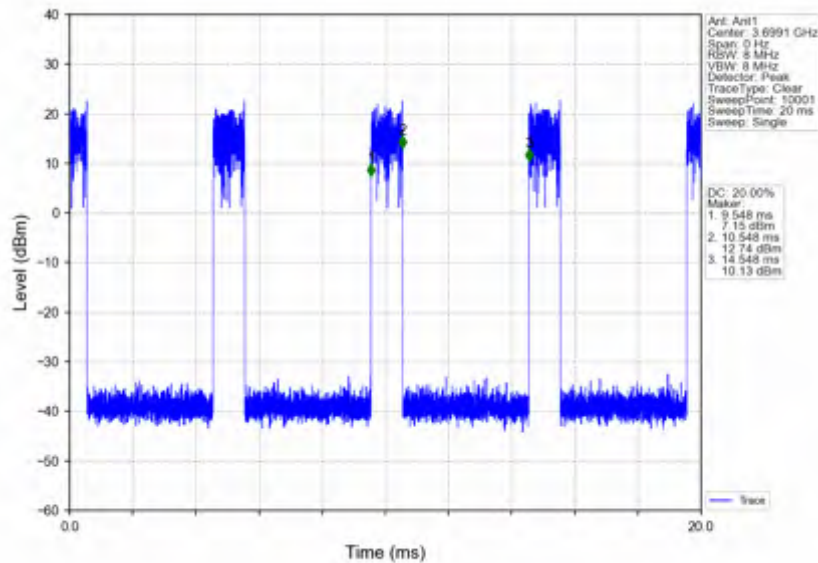
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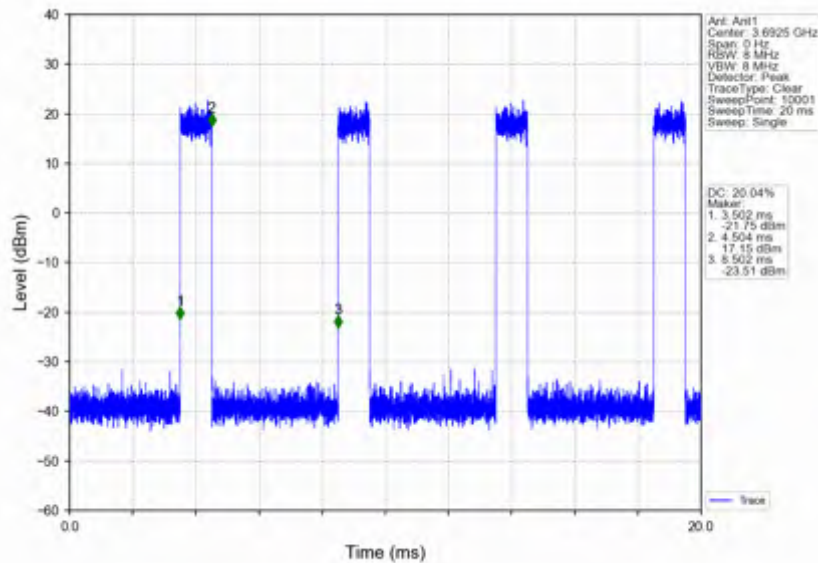


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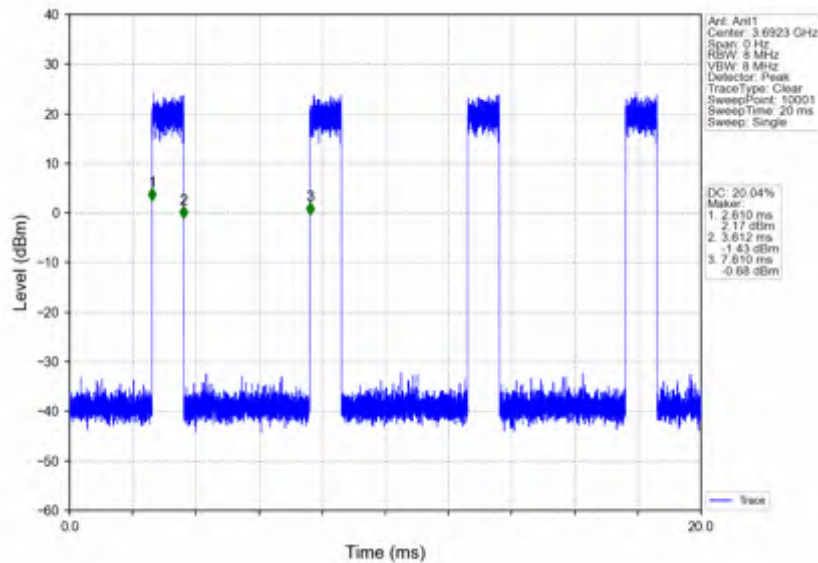
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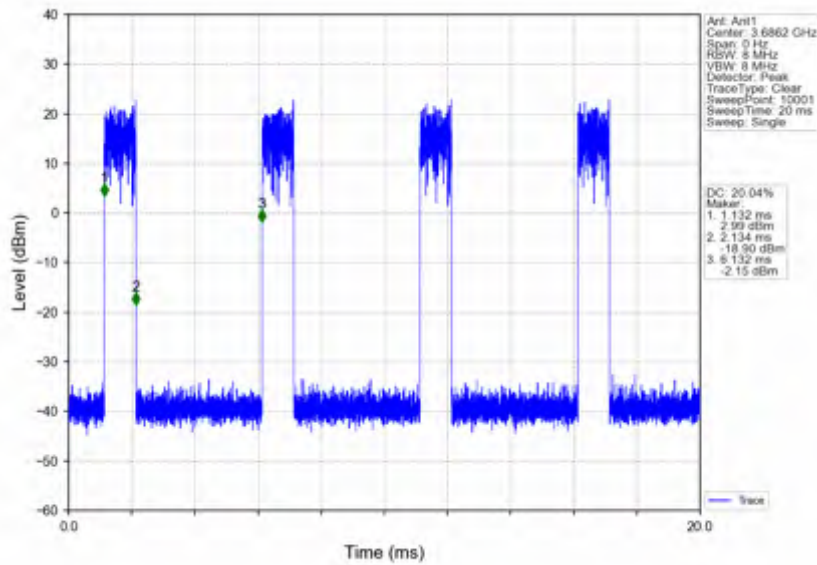
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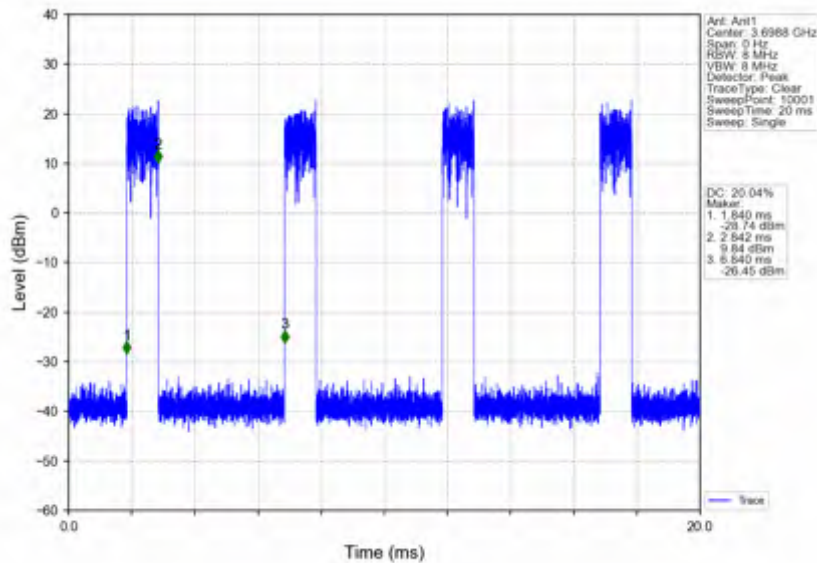
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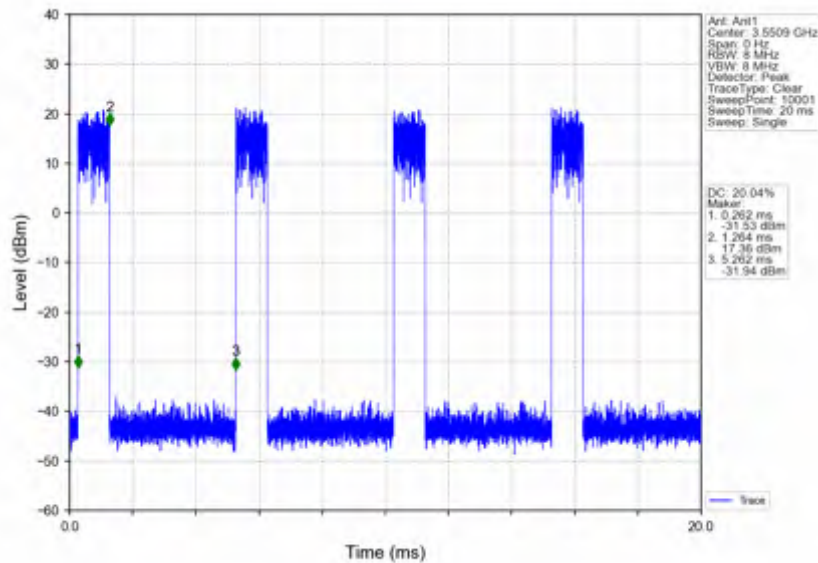
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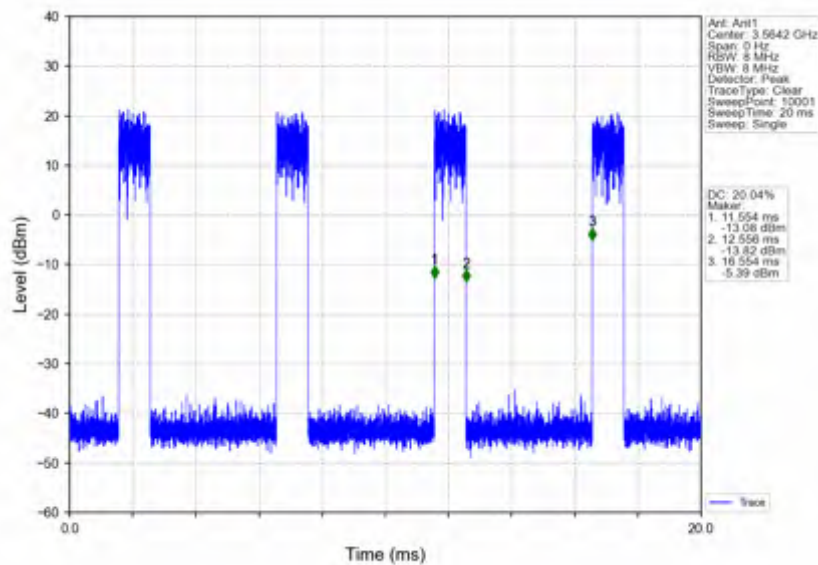
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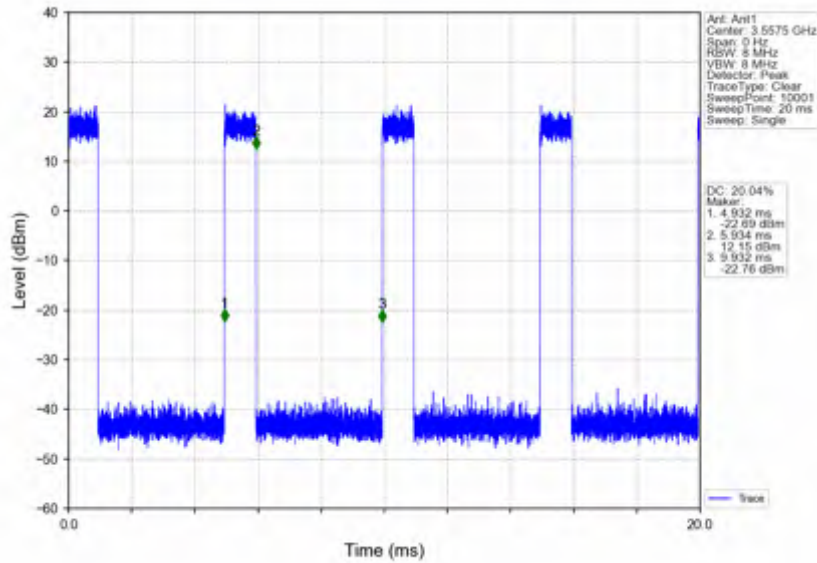


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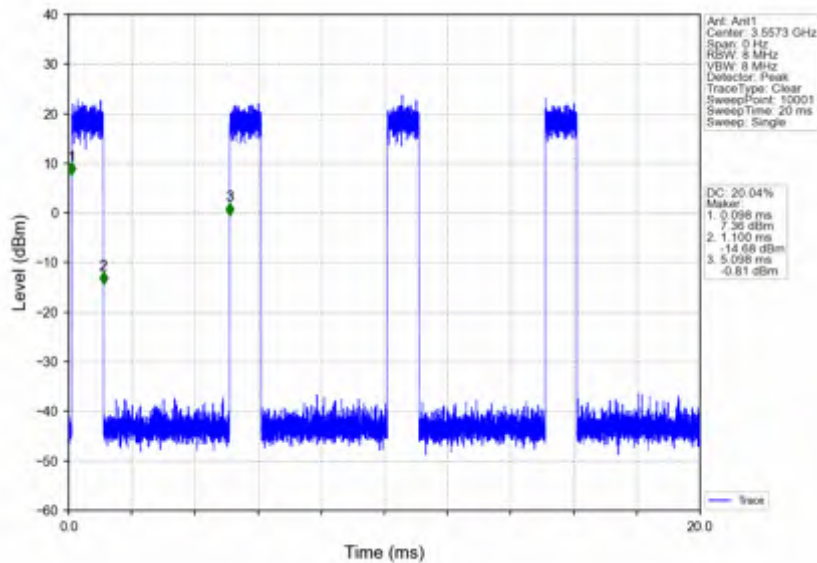
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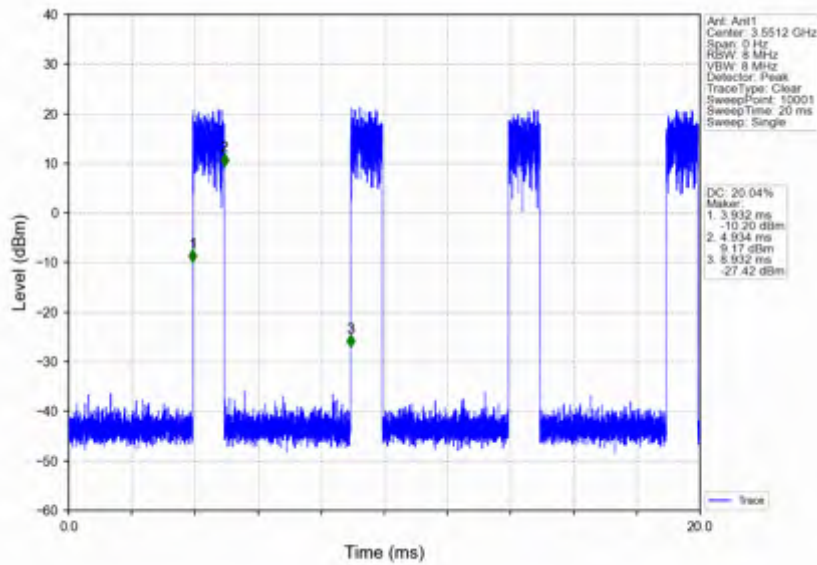


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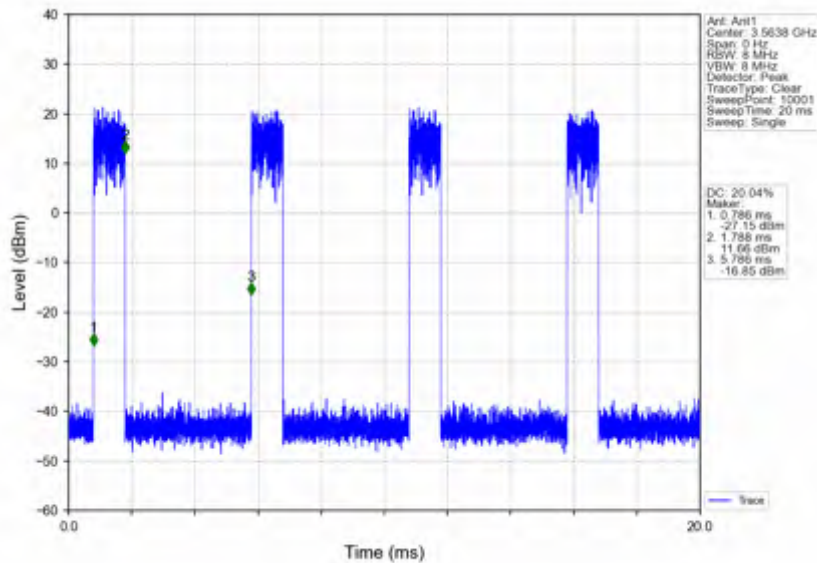
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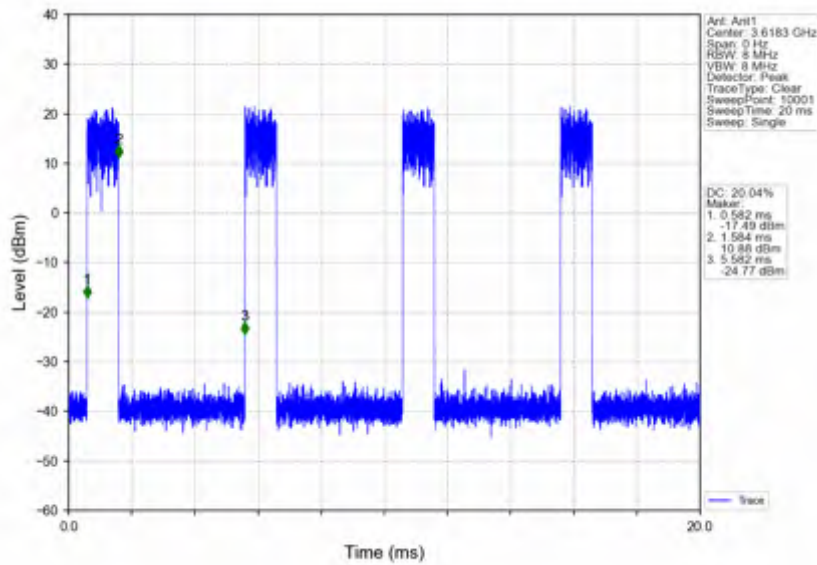


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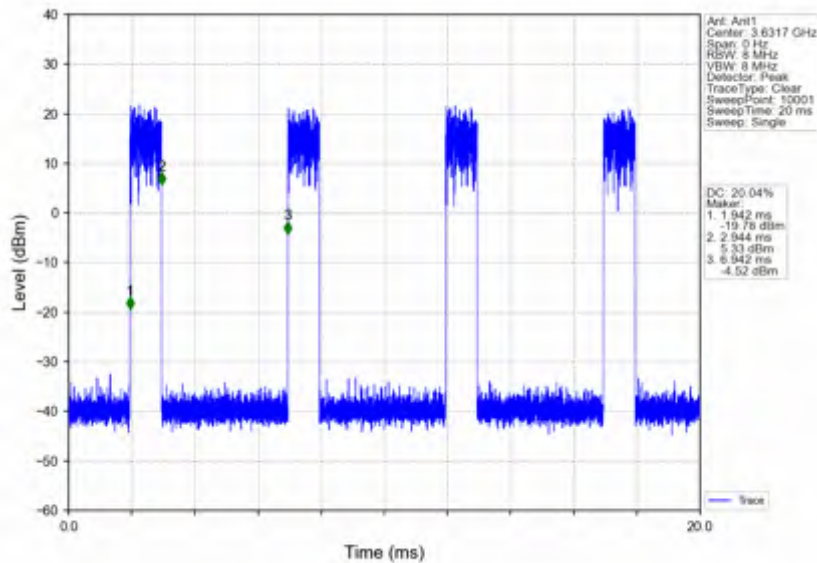
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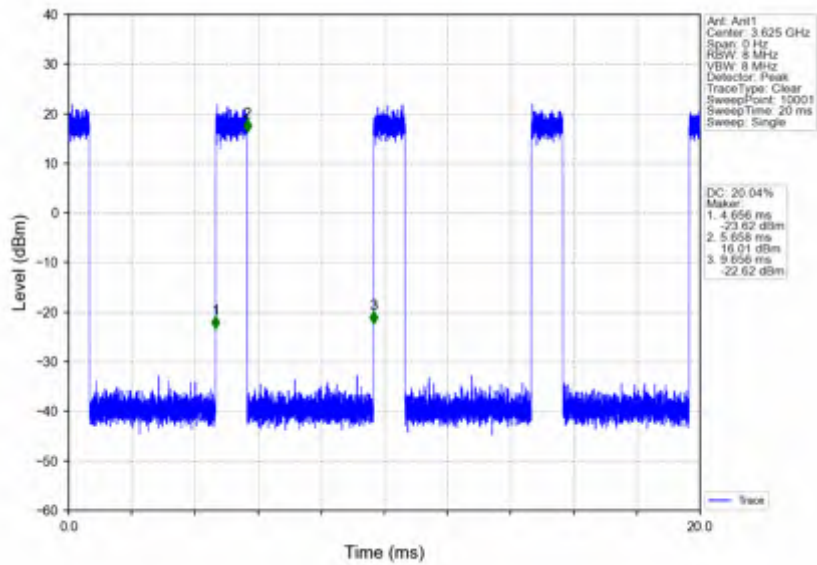
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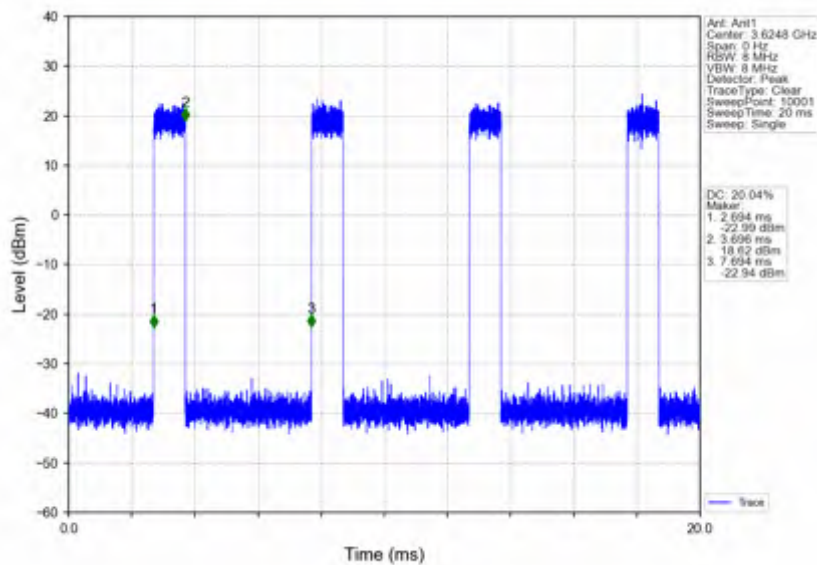
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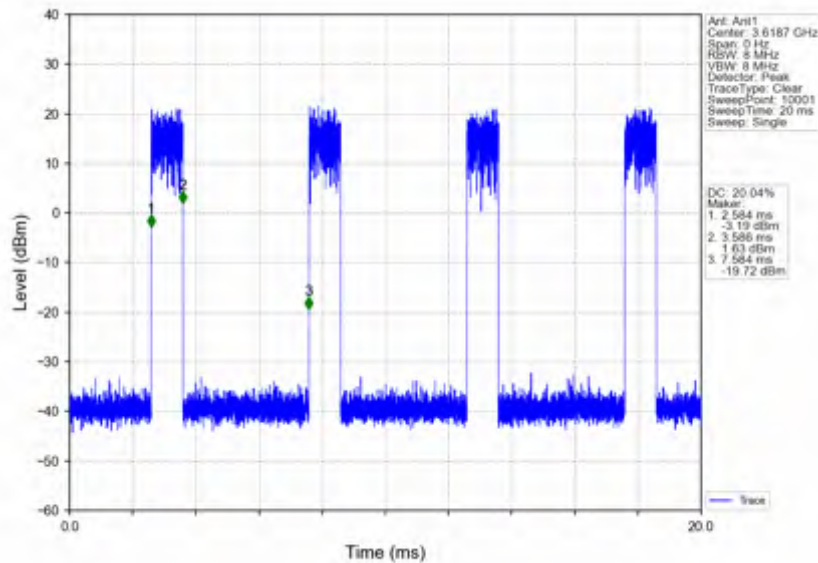


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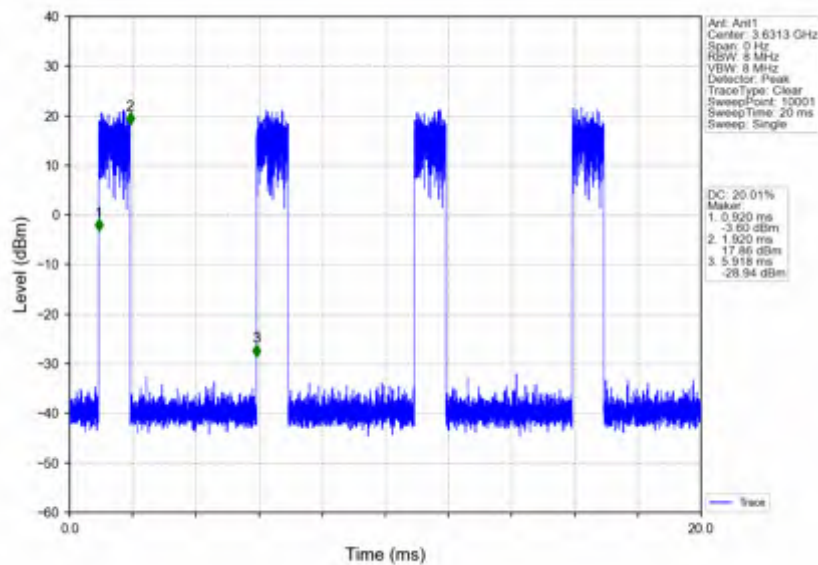
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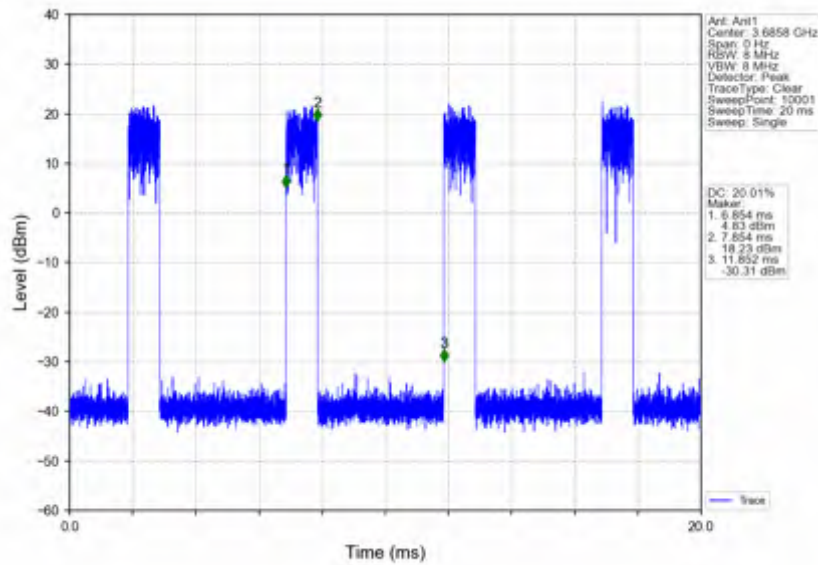
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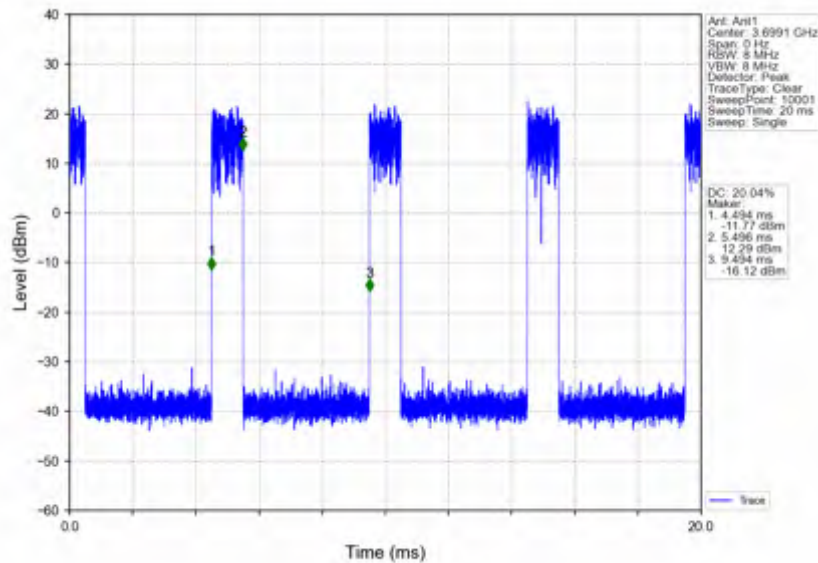
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_3692.49MHz_Edge_1RB_Left



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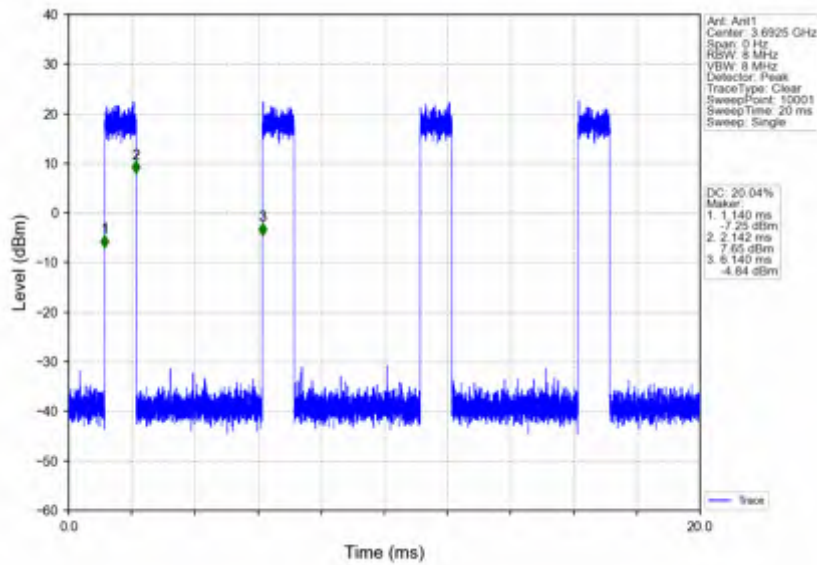


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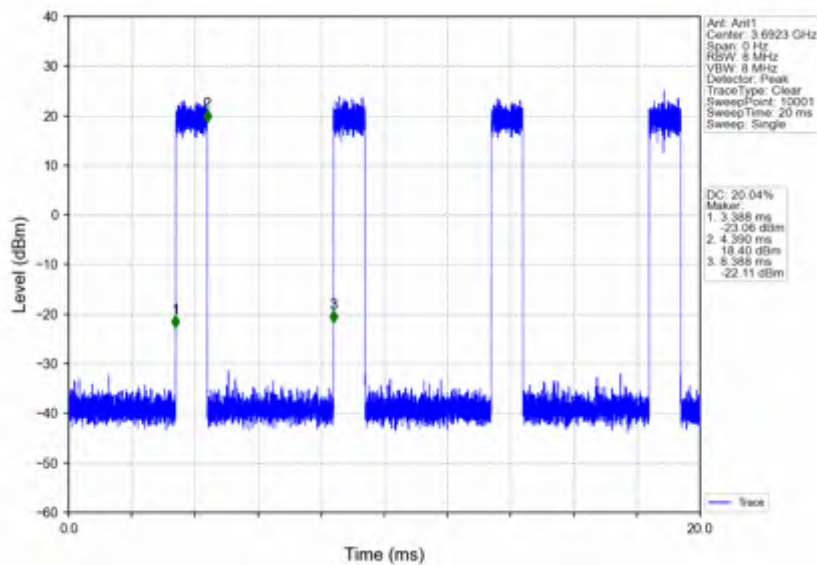
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n78d_30kHz_SISO_NTV_15MHz_CP-OFDM_16_QAM_3692.49MHz_Outer_Full



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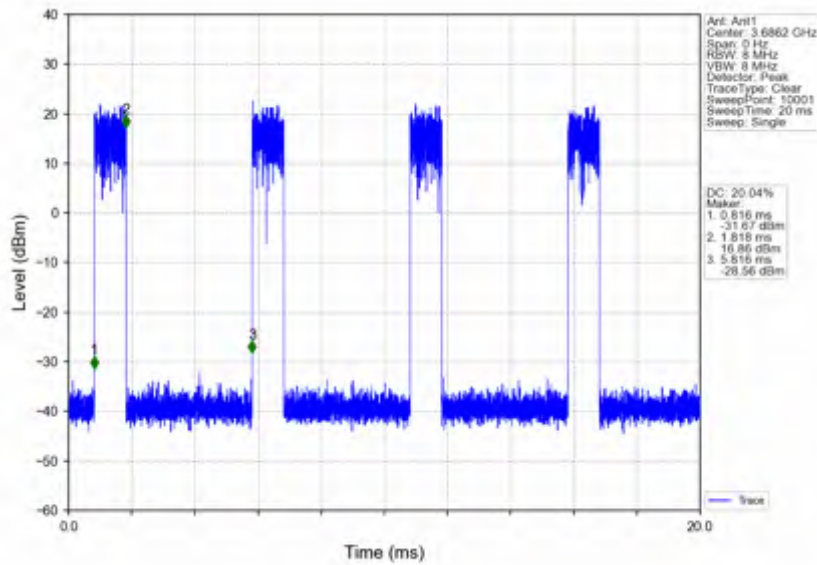


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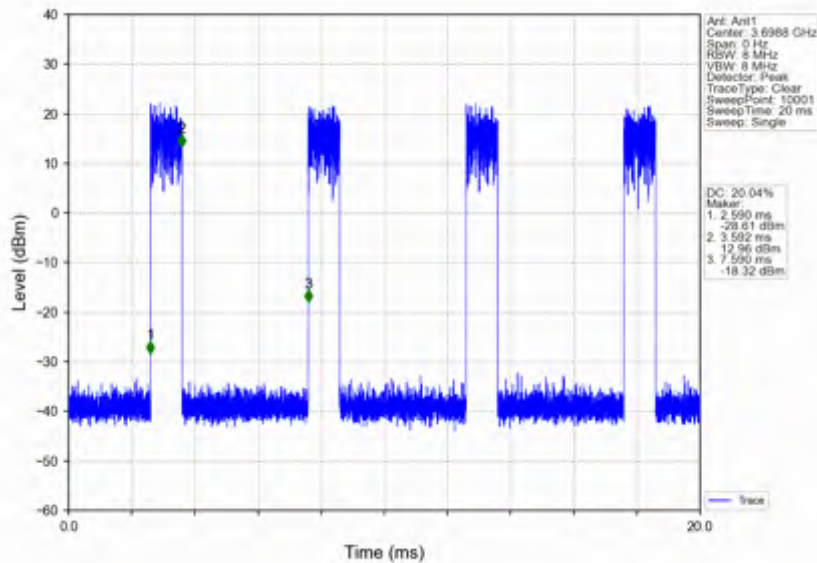
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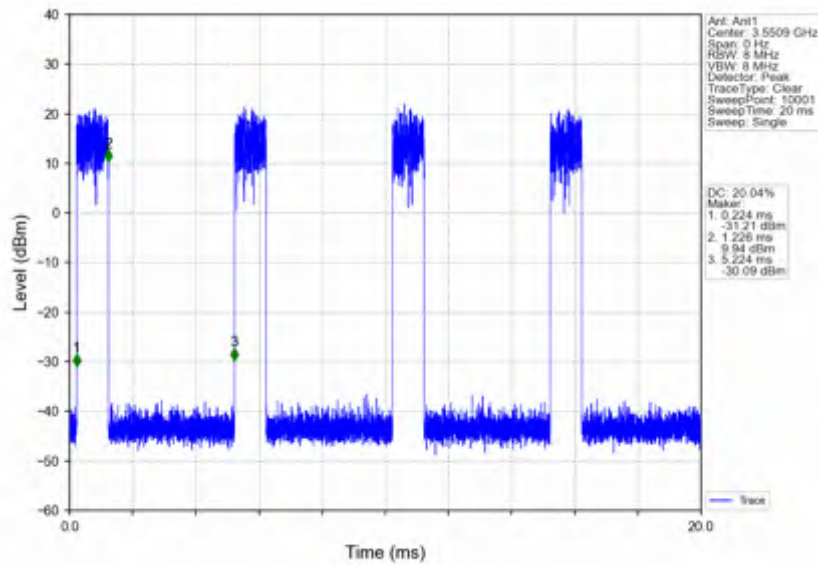
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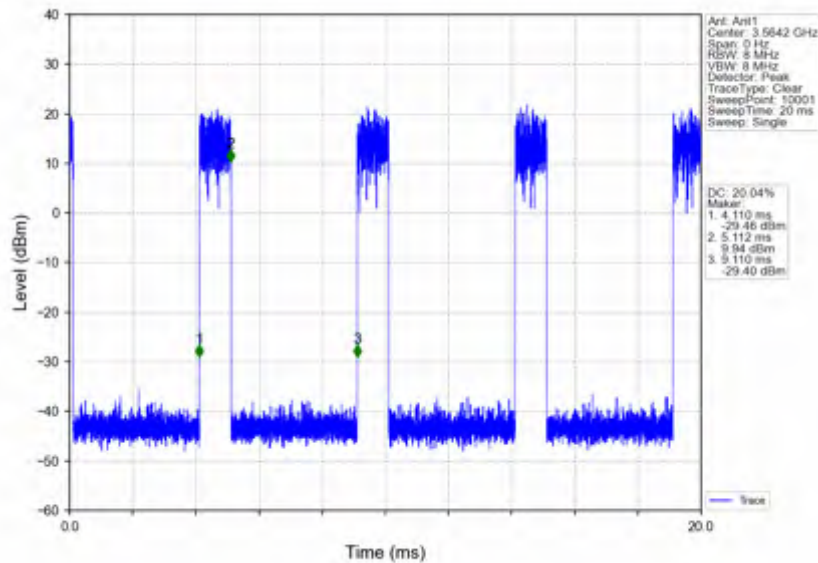
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3557.52MHz_Edge_1RB_Left



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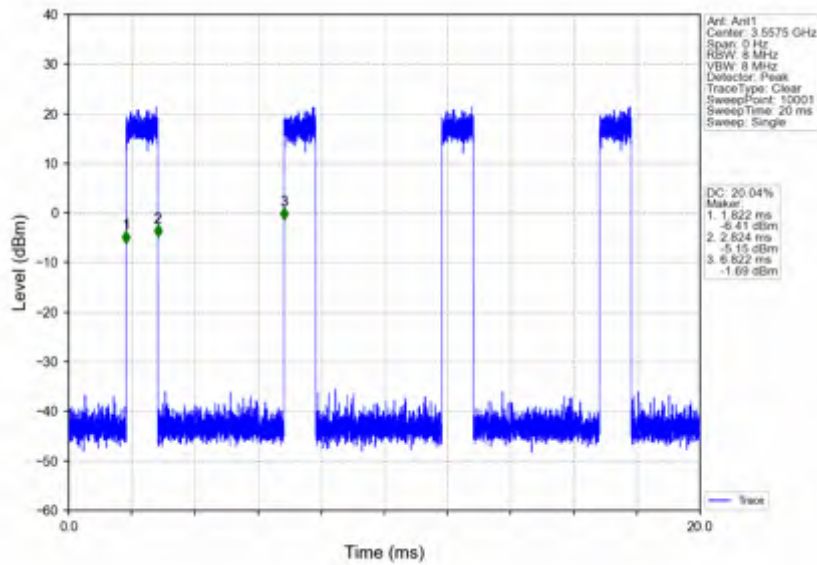


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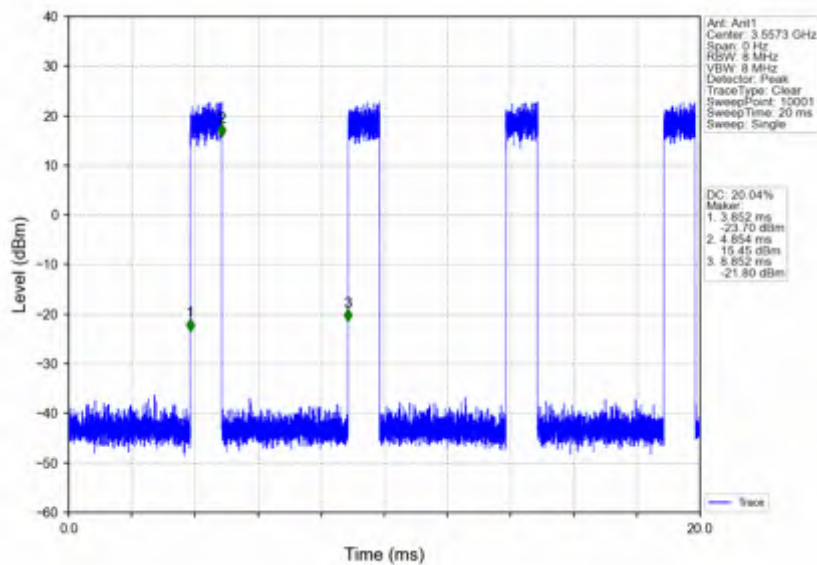
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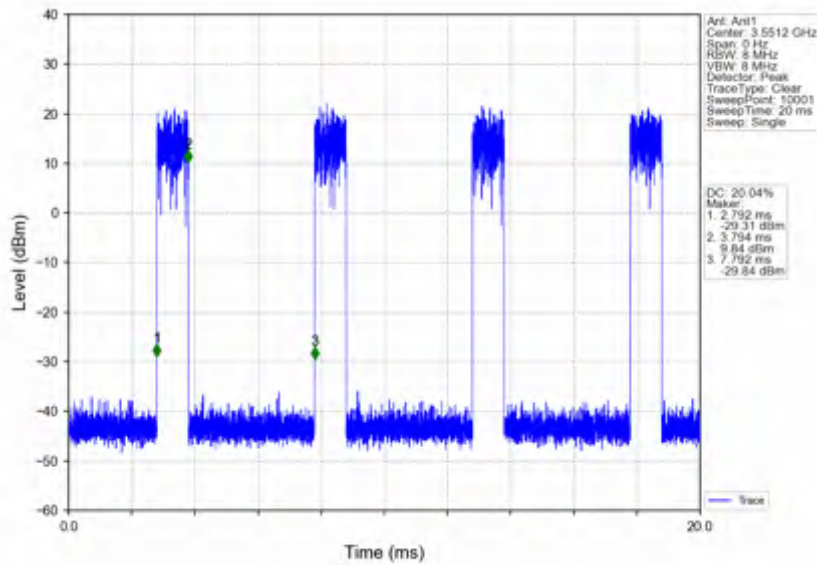
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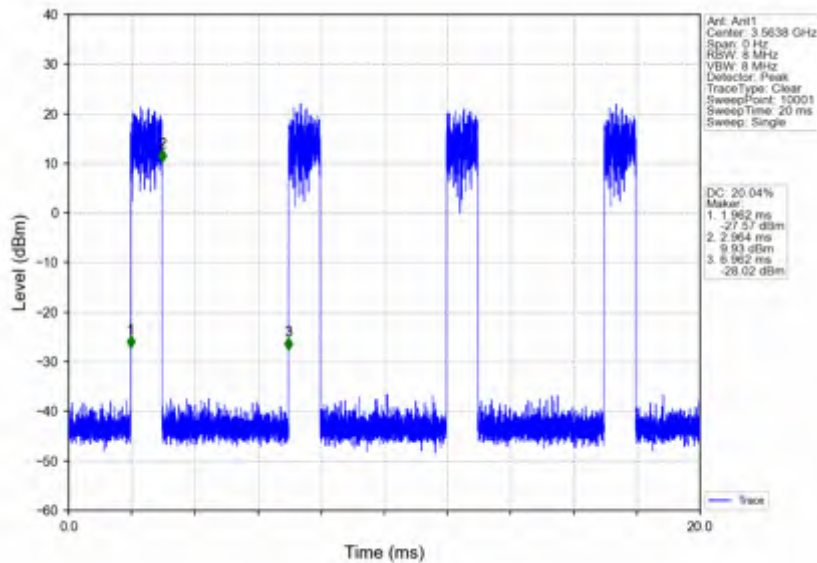
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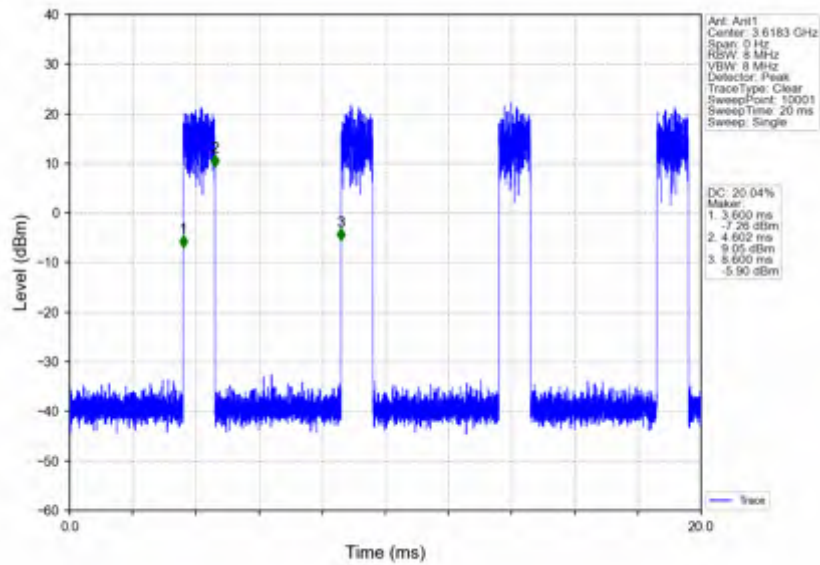
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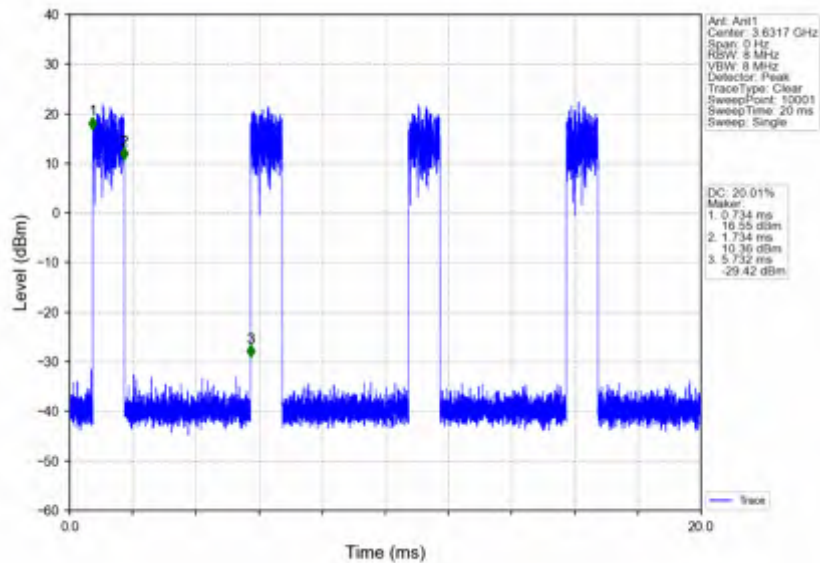
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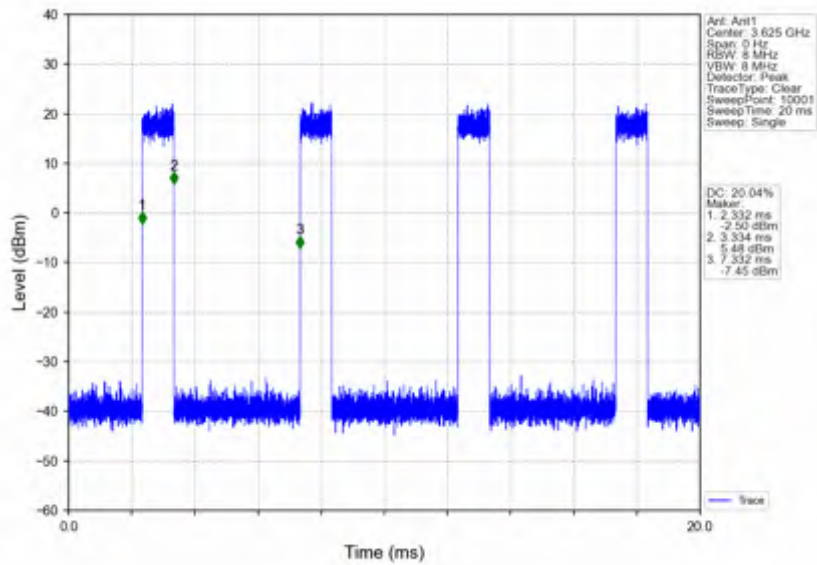
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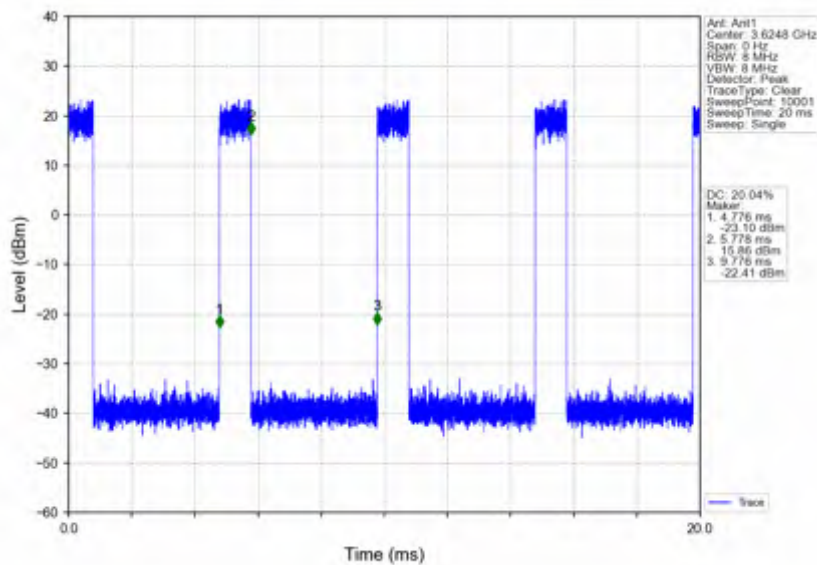
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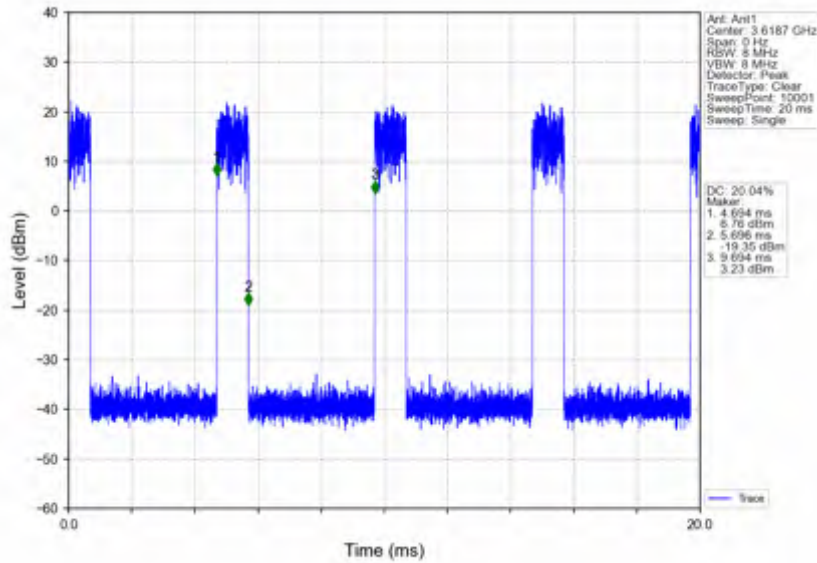
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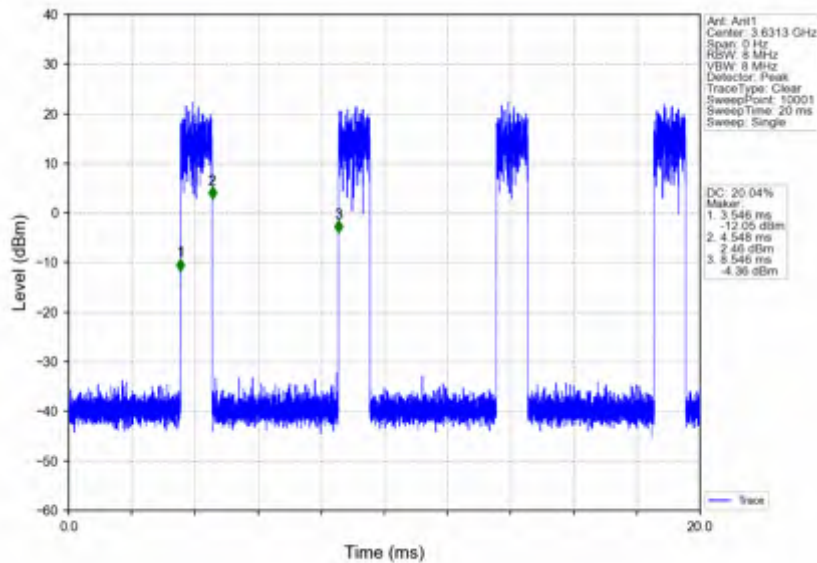
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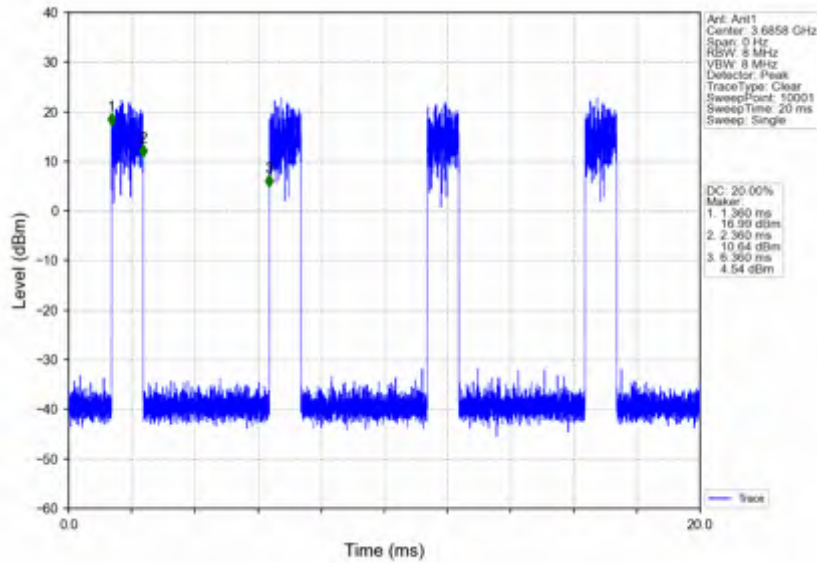


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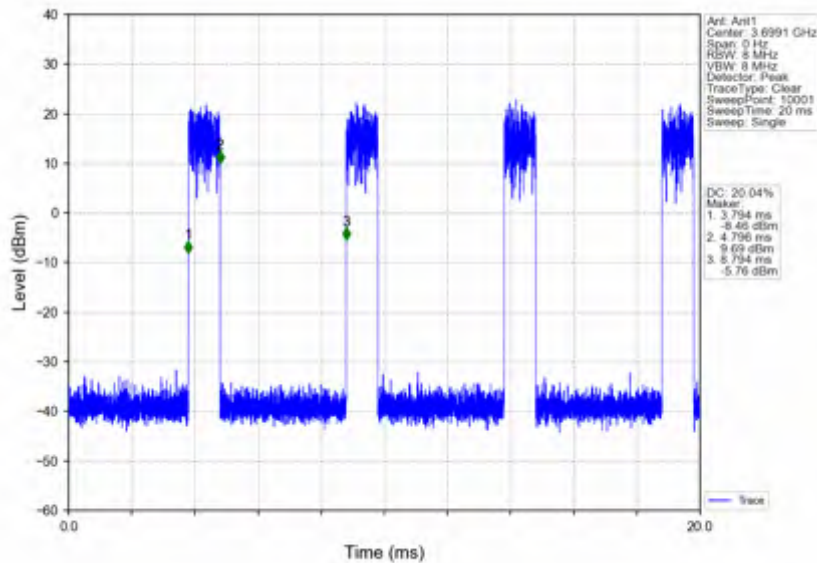
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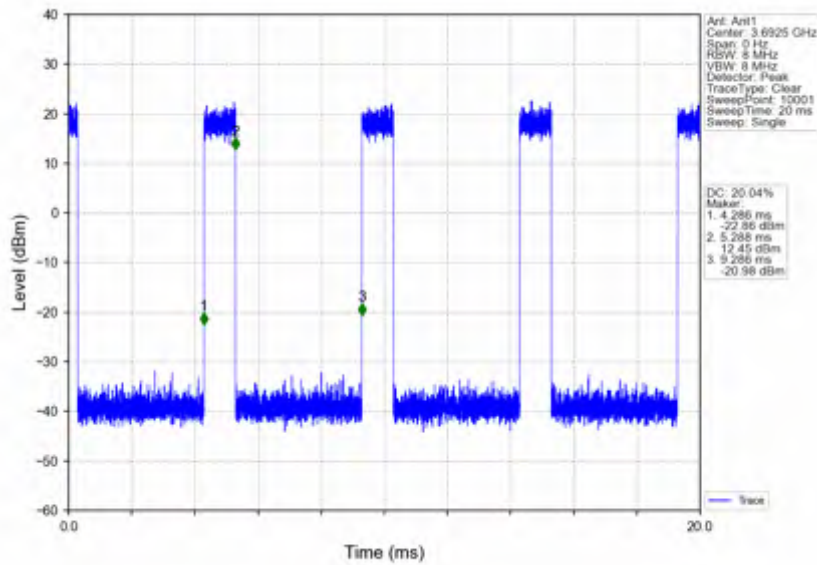


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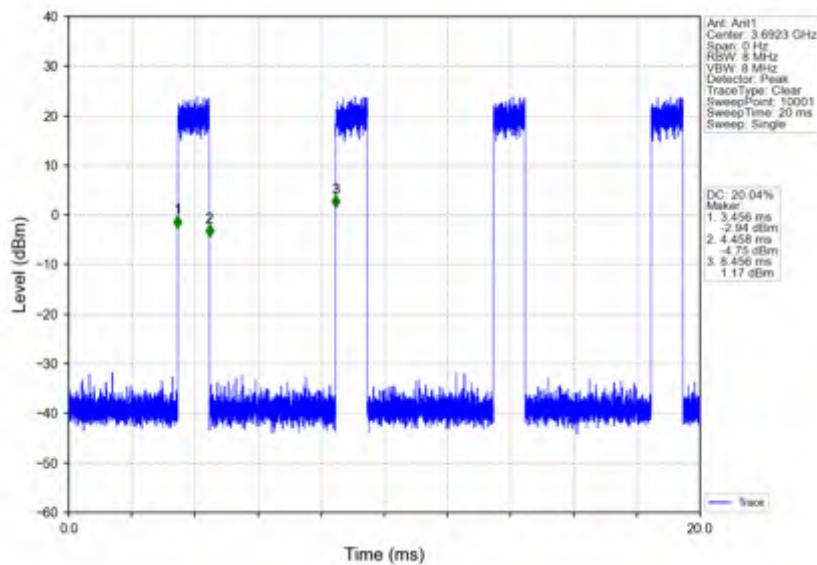
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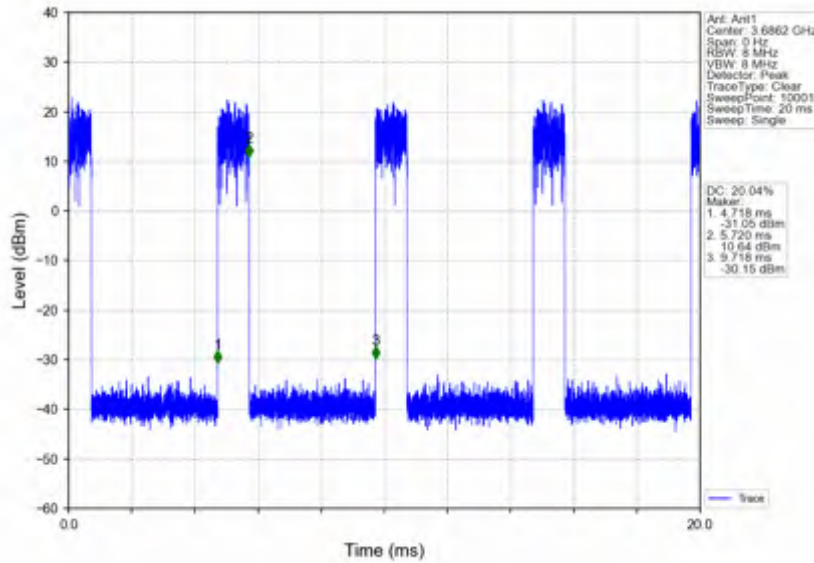


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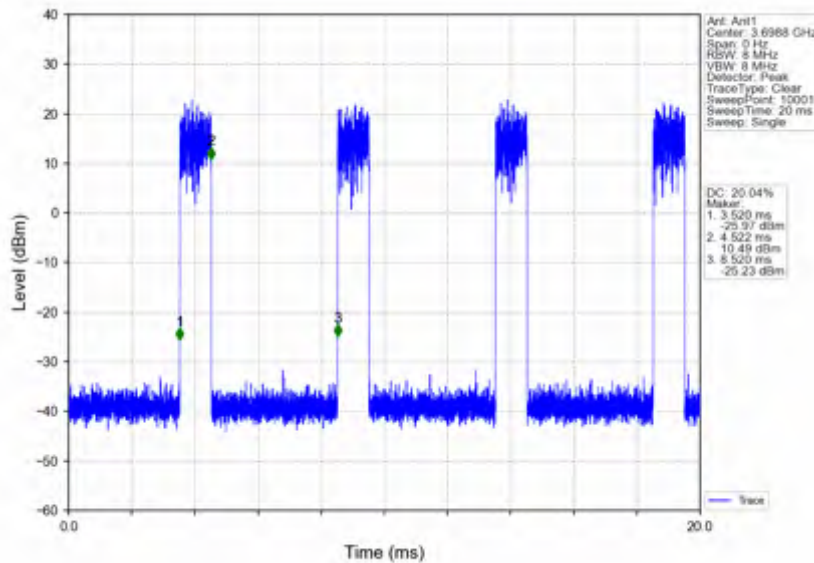
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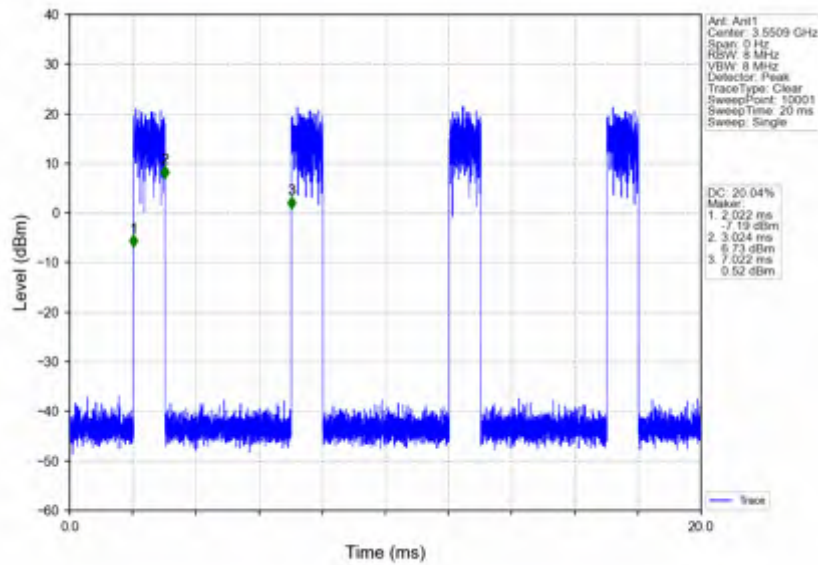
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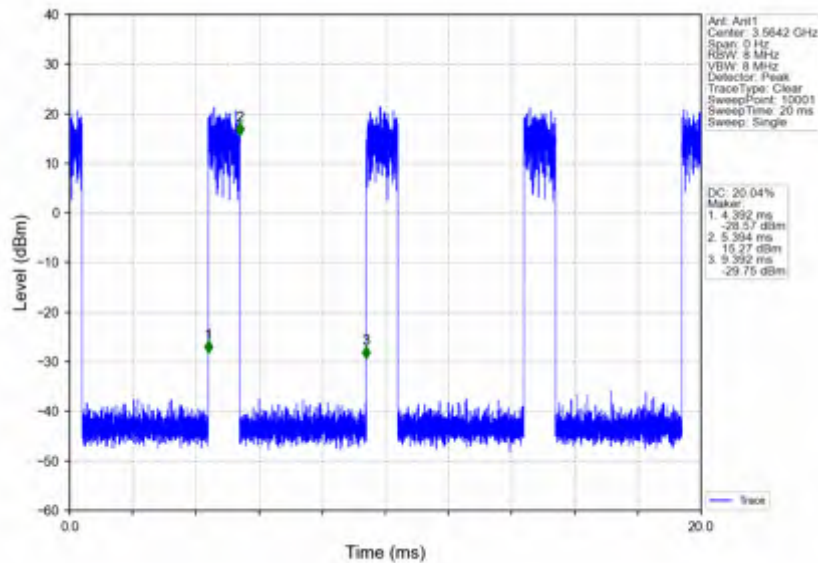
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Edge_1RB_Right



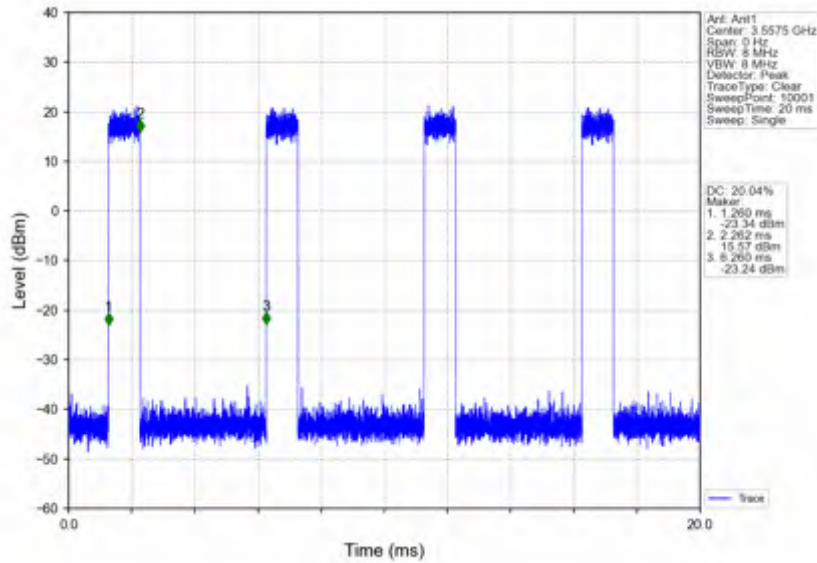
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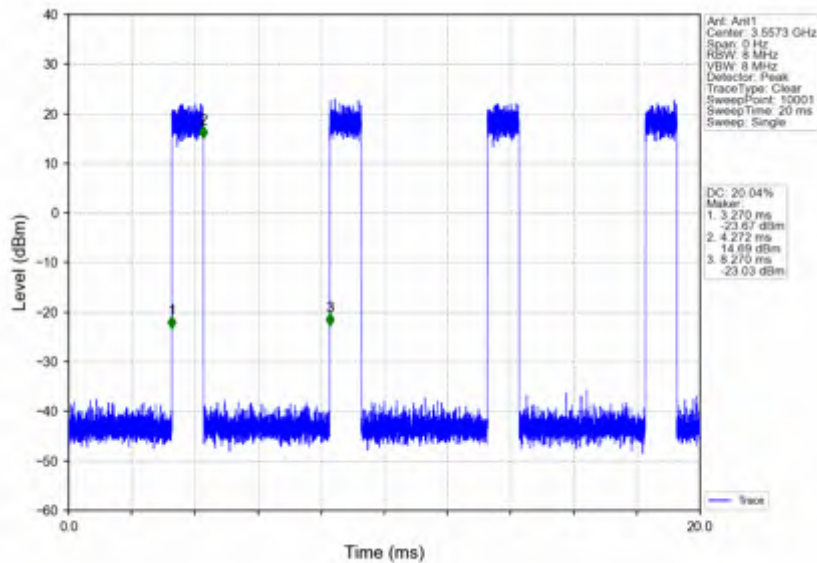
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Outer_Full



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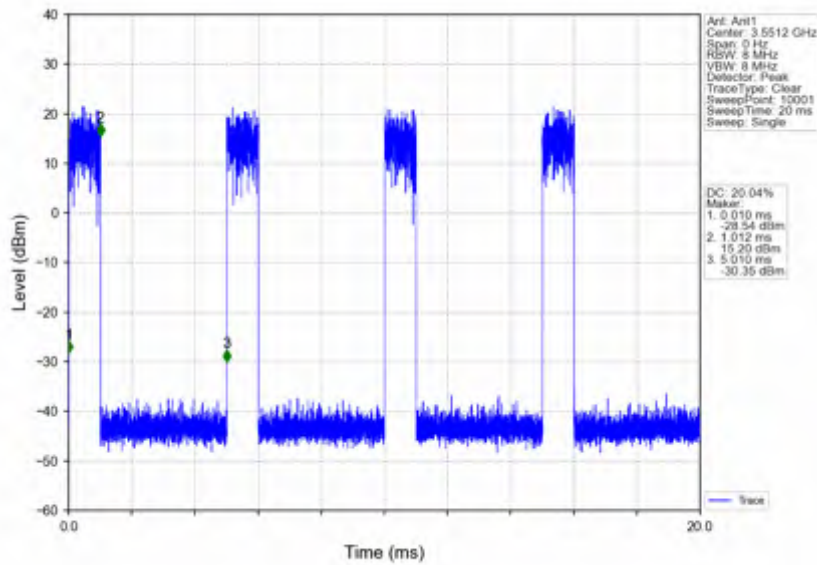
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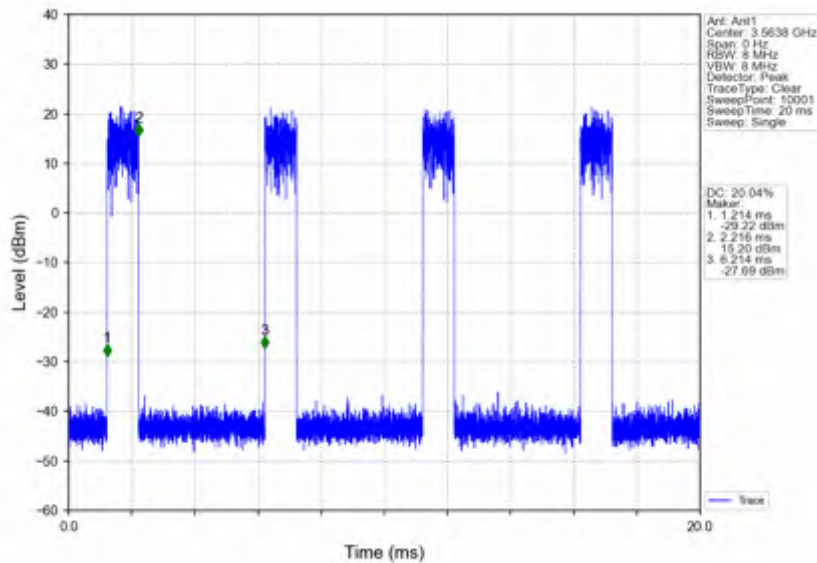
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Inner_1RB_Right

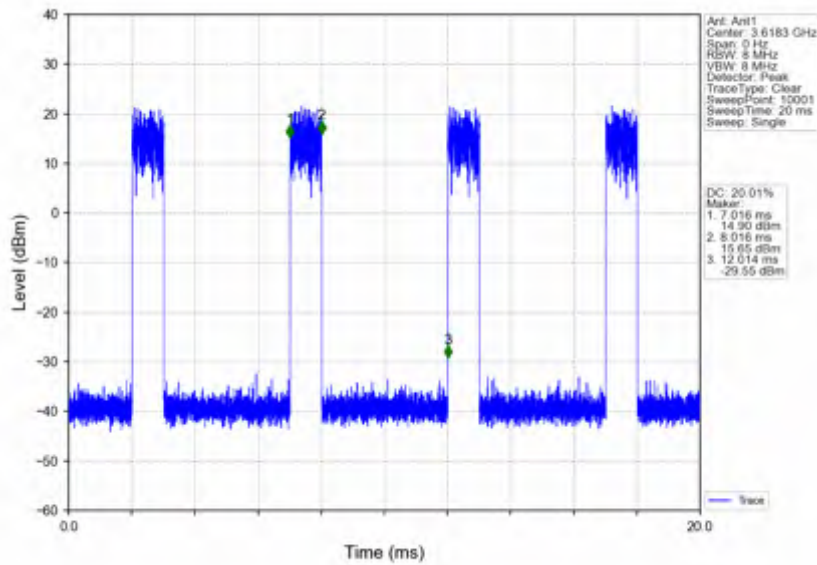


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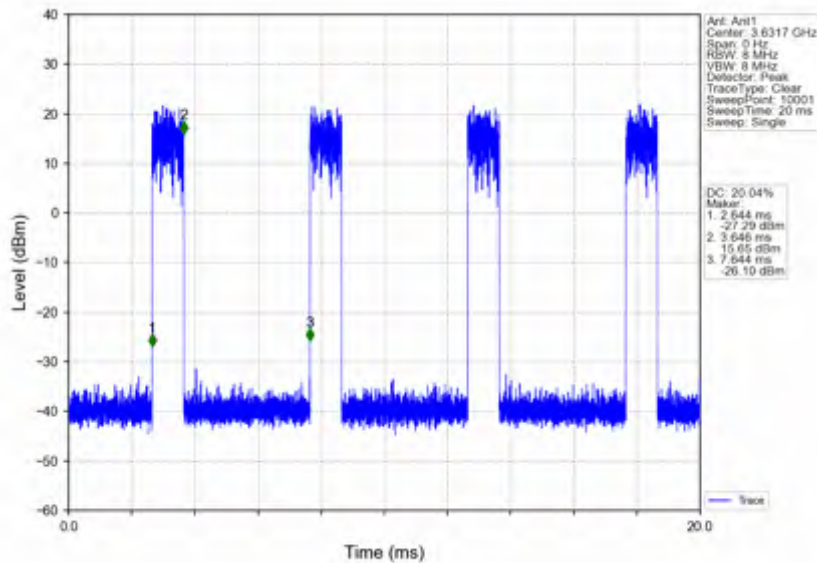
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Right

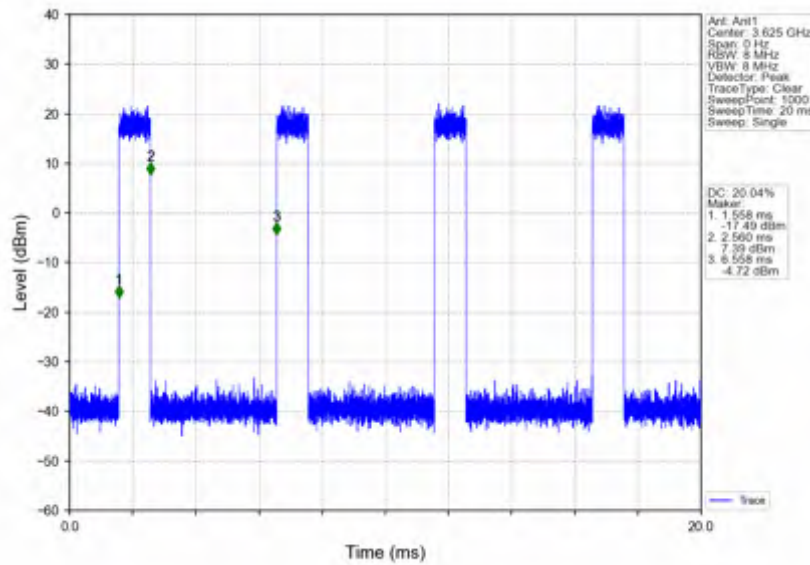


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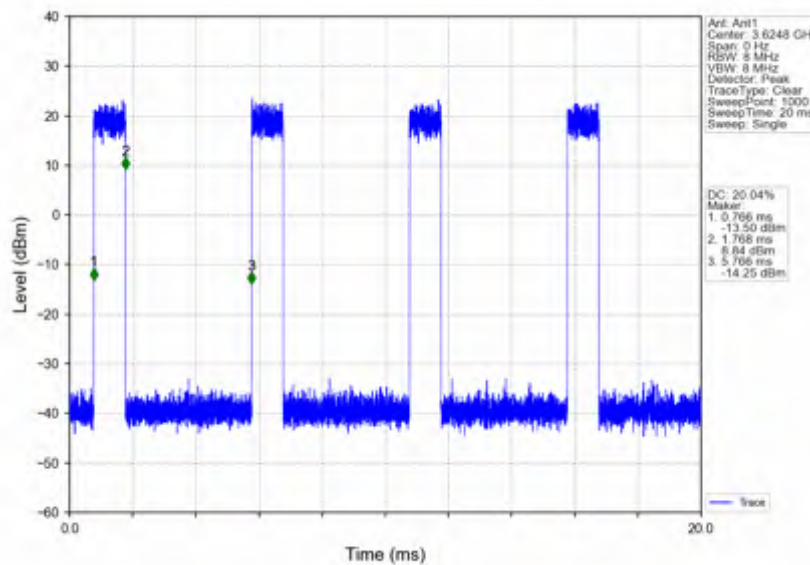
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full



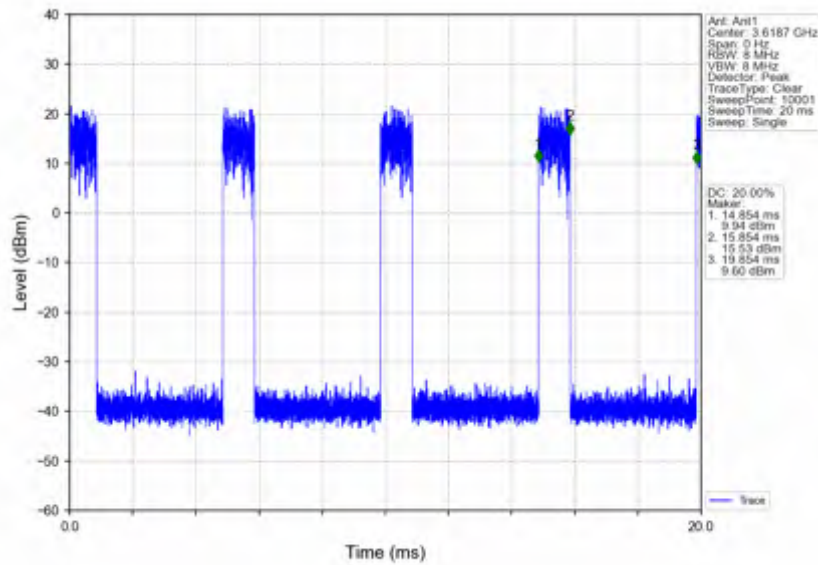
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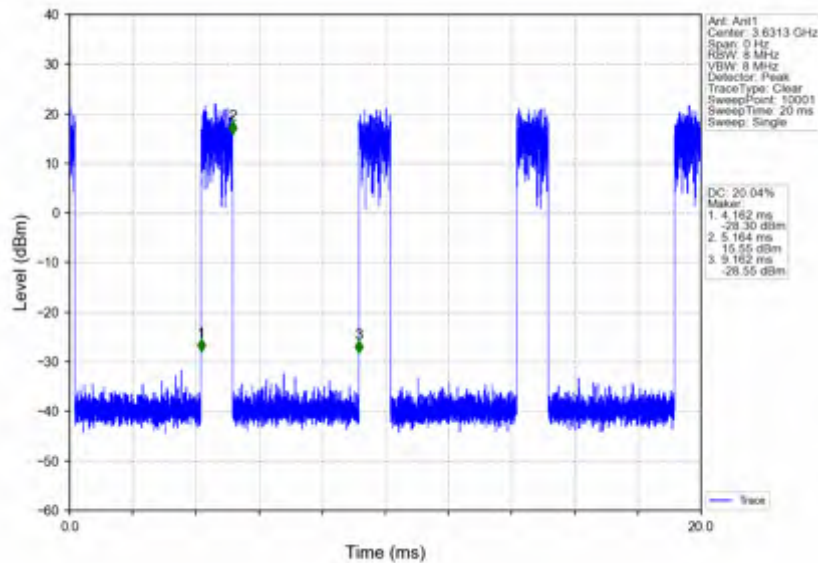
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right

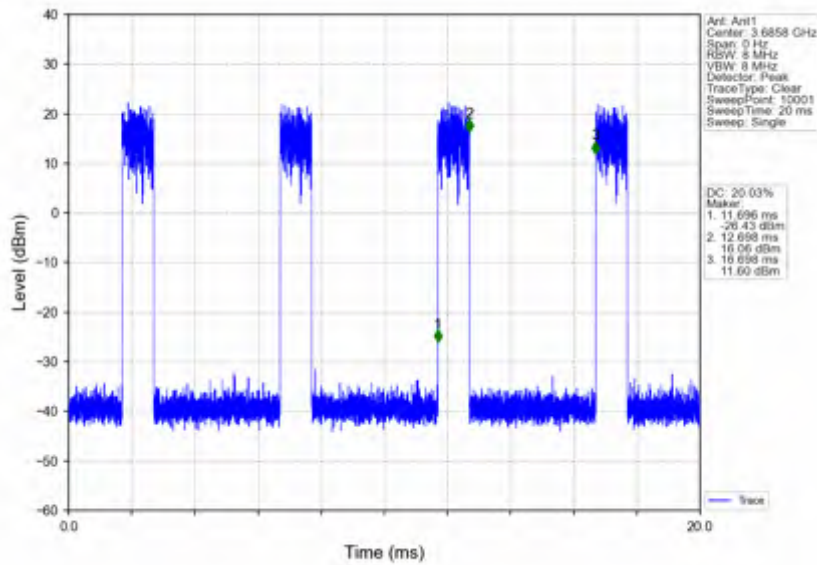


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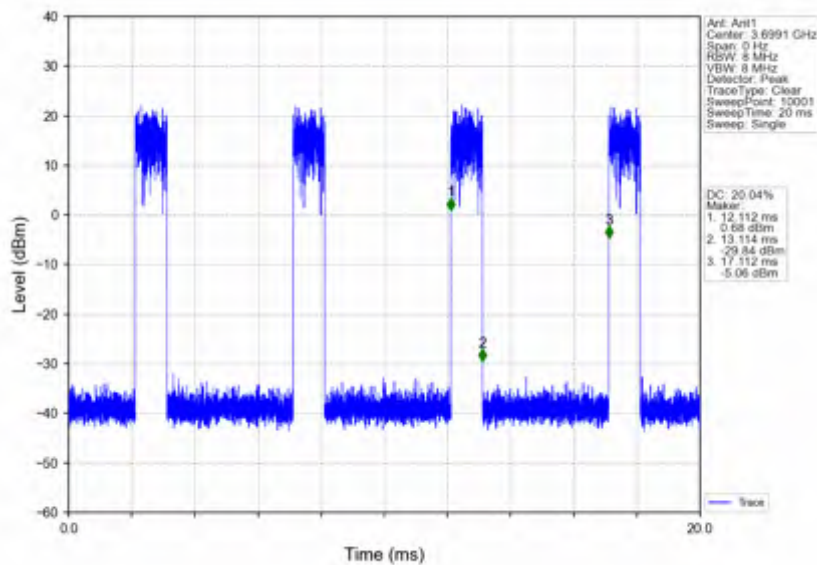
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Edge_1RB_Left



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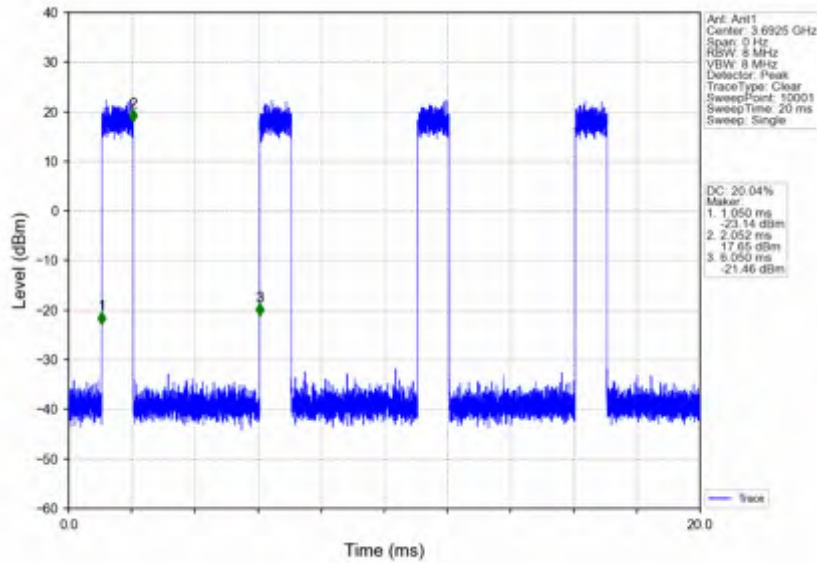


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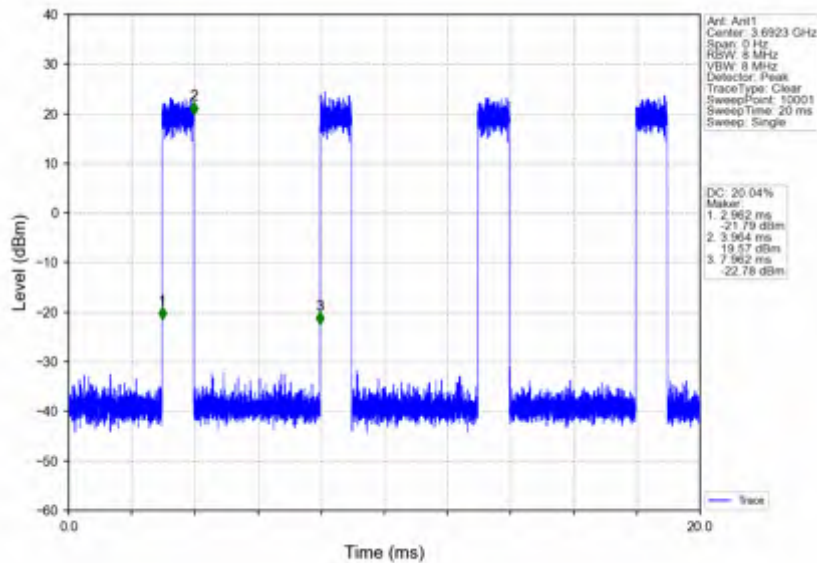
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Inner_Full



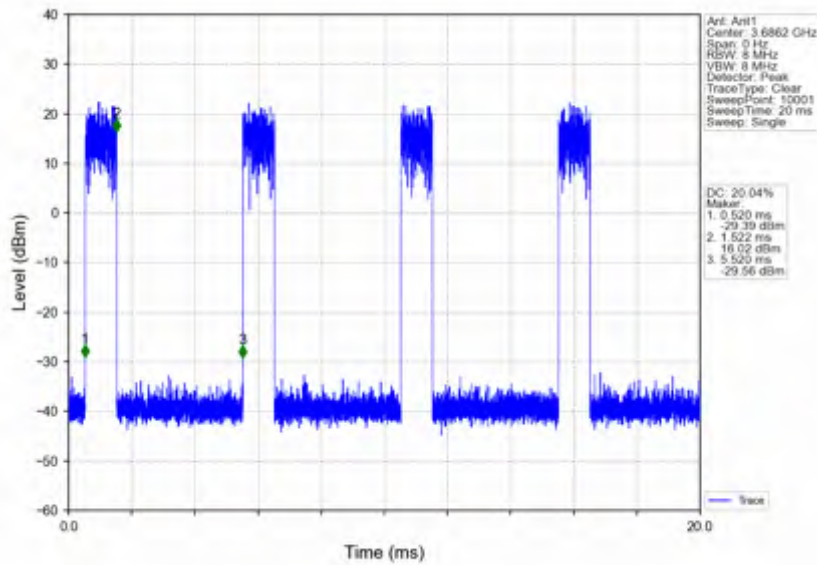
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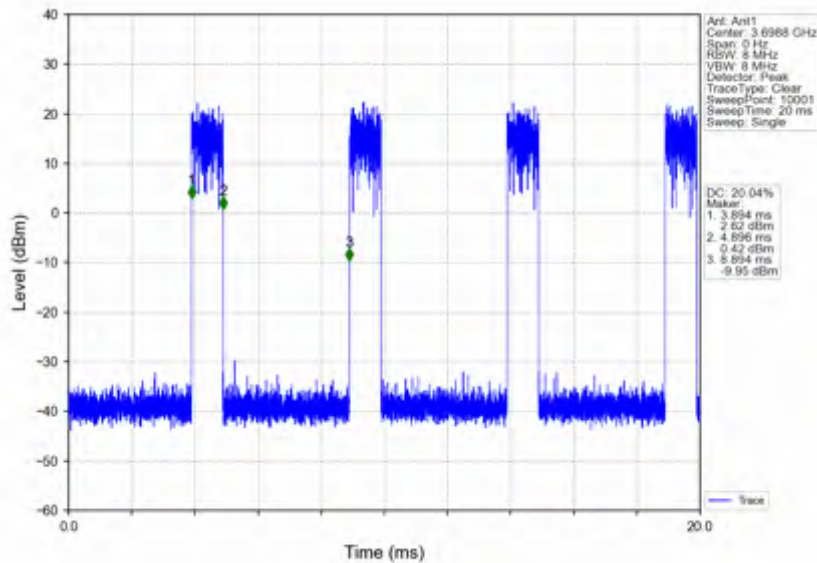
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n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Inner_1RB_Right



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1.10 30k_SISO_20MHz_NTNV

1.10.1 Test Result

5G NR n78d SCS=30kHz SISO 20MHz 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	3560.01	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	0.08
		Inner_Full	0.502	2.500	20.08	6.97	0.02
		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
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.16
		Edge_1RB_Right	0.506	2.500	20.24	6.94	0.08
		Outer_Full	0.504	2.500	20.16	6.96	0.08
		Inner_Full	0.504	2.500	20.16	6.96	0.08
		Inner_1RB_Left	0.504	2.500	20.16	6.96	0.08
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08
	3690	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	0.06
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
DFT-s-OFDM QPSK	3560.01	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.01
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.01
		Outer_Full	1.002	5.000	20.04	6.98	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Right	1.002	5.000	20.04	6.98	0.00
	3624.99	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
		Outer_Full	1.002	5.000	20.04	6.98	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3690	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
DFT-s-OFDM 16 QAM	3560.01	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
		Outer_Full	1.002	5.000	20.04	6.98	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00



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		Outer_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00	
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00	
	3690	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	0.08	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08	
		Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00	
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00	
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	1.004	5.000	20.08	6.97	0.00	
		Inner_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00	
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00	
	3624.99	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00	
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00	
		Outer_Full	0.502	2.500	20.08	6.97	0.06	
		Inner_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00	
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00	
		Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00	
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00	
	3690	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	0.06	
	DFT-s-OFDM 256 QAM	3560.01	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.04
			Edge_1RB_Right	1.000	5.000	20.00	6.99	0.03
			Outer_Full	1.002	5.000	20.04	6.98	0.00
			Inner_Full	1.002	5.000	20.04	6.98	0.00
			Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
			Inner_1RB_Right	1.002	5.000	20.04	6.98	0.00
		3624.99	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00
Outer_Full			0.502	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	2.498	20.02	6.99	0.06	
Inner_1RB_Right			0.500	2.500	20.00	6.99	0.06	
3690		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	0.502	2.500	20.08	6.97	0.00	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00	
		Edge_1RB_Right	1.002	5.000	20.04	6.98	0.00	
		Outer_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_Full	1.002	5.000	20.04	6.98	0.00	
		Inner_1RB_Left	1.000	4.998	20.01	6.99	0.03	
	3624.99	Inner_1RB_Right	1.002	5.000	20.04	6.98	0.00	
		Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00	
		Edge_1RB_Right	0.500	2.498	20.02	6.99	0.06	



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 0512-57350883 0512-57370910 sgs.china@sgs.com

		Outer_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.08		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06		
	3690	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	0.06		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06		
		CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00
				Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
Outer_Full	1.002			5.000	20.04	6.98	0.00		
Inner_Full	1.002			5.000	20.04	6.98	0.00		
Inner_1RB_Left	1.000			4.998	20.01	6.99	0.03		
Inner_1RB_Right	1.002			5.000	20.04	6.98	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	0.06		
	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		
3690	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	0.00			
	Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00			
CP-OFDM 64 QAM	3560.01	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.03		
		Edge_1RB_Right	1.002	5.002	20.03	6.98	0.05		
		Outer_Full	1.002	5.000	20.04	6.98	0.00		
		Inner_Full	1.002	5.000	20.04	6.98	0.00		
		Inner_1RB_Left	1.000	4.998	20.01	6.99	0.03		
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.04		
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00		
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08		
		Outer_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.06		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00		
	3690	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.10		
		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	0.06		
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00		
CP-OFDM 256 QAM	3560.01	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.01		
		Edge_1RB_Right	1.002	5.000	20.04	6.98	0.00		
		Outer_Full	1.004	5.000	20.08	6.97	0.00		
		Inner_Full	1.002	5.000	20.04	6.98	0.00		
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.01		
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.03		
	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	0.502	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
	3690	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06
		Edge_1RB_Right	0.502	2.500	20.08	6.97	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



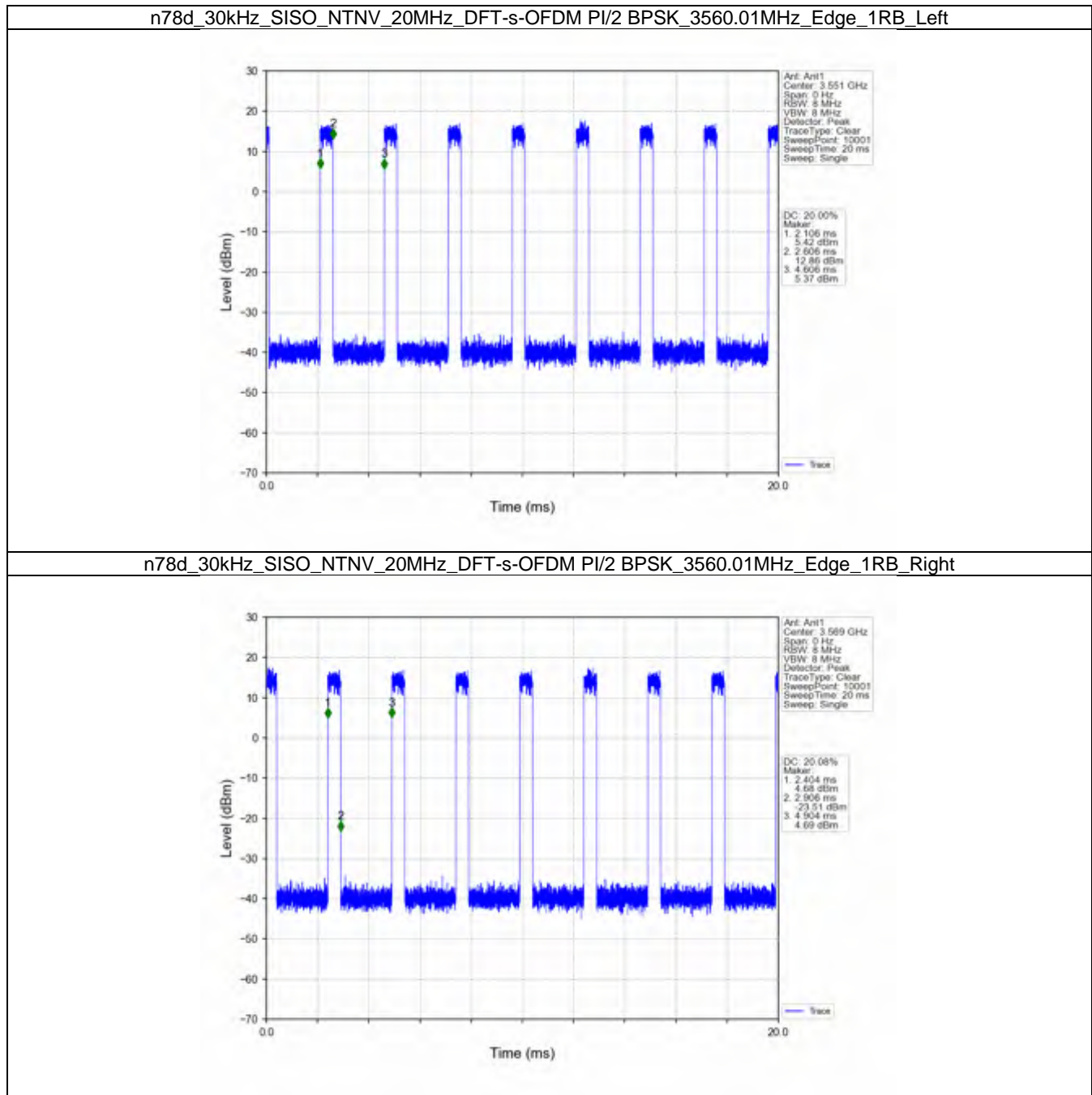
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1.10.2 Test Graph



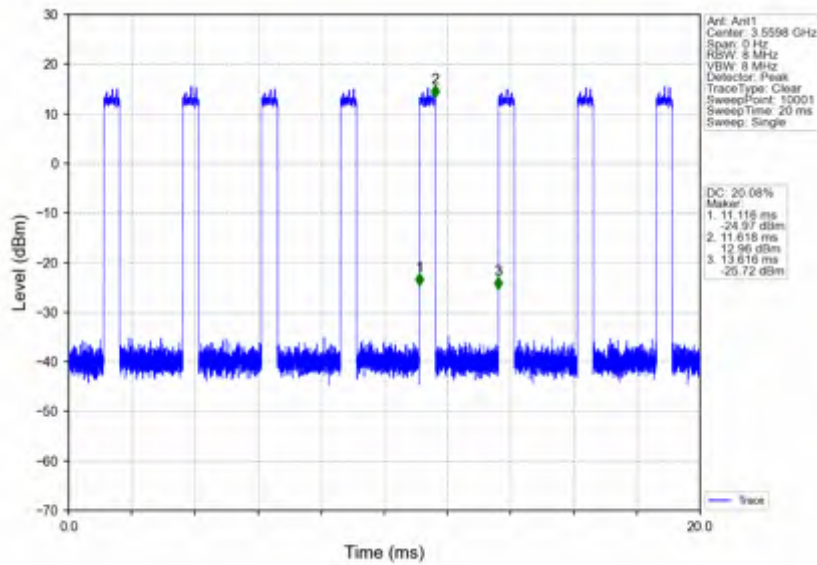
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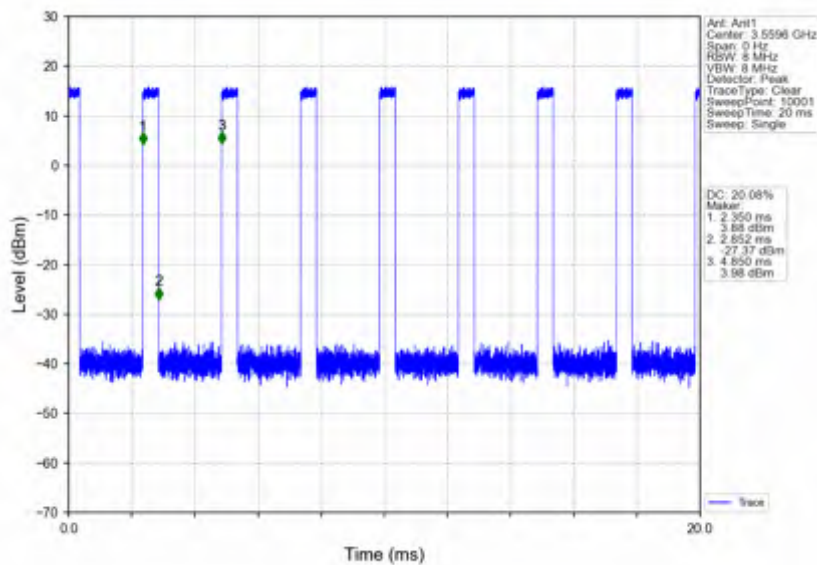
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3560.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3560.01MHz_Inner_Full



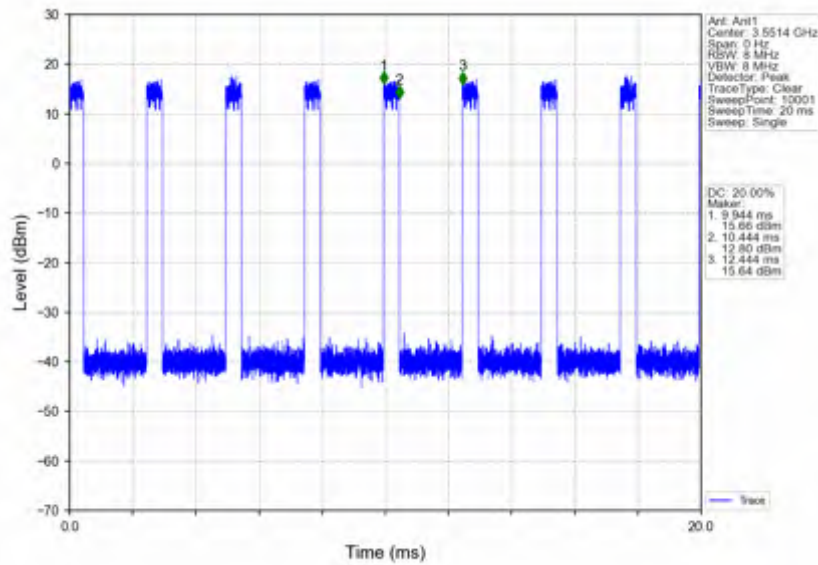
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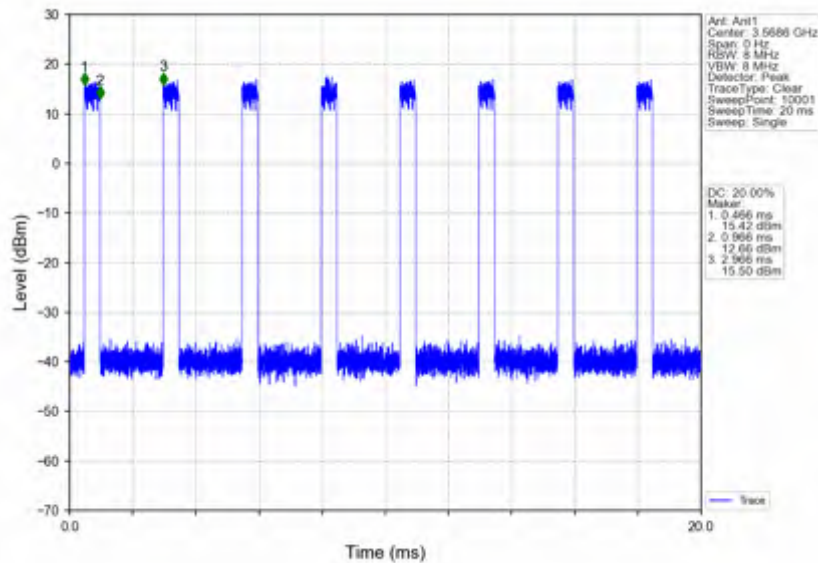
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3560.01MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3560.01MHz_Inner_1RB_Right

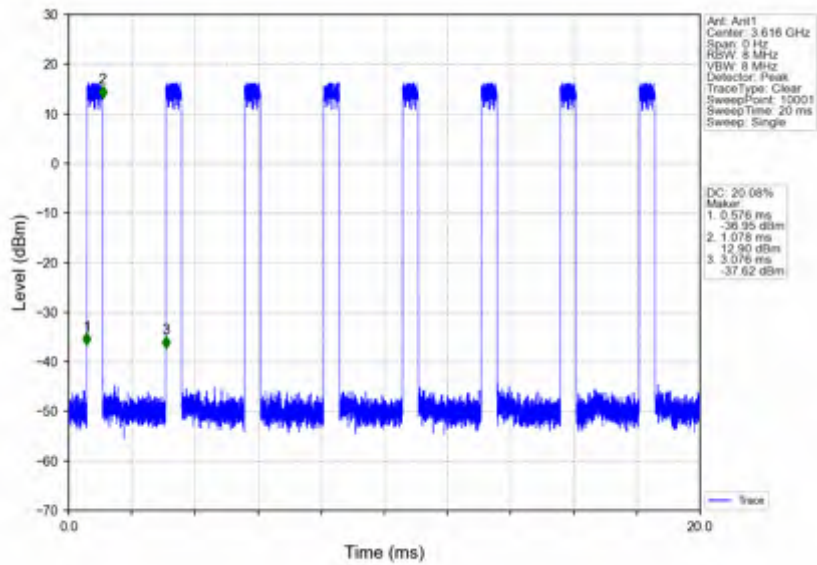


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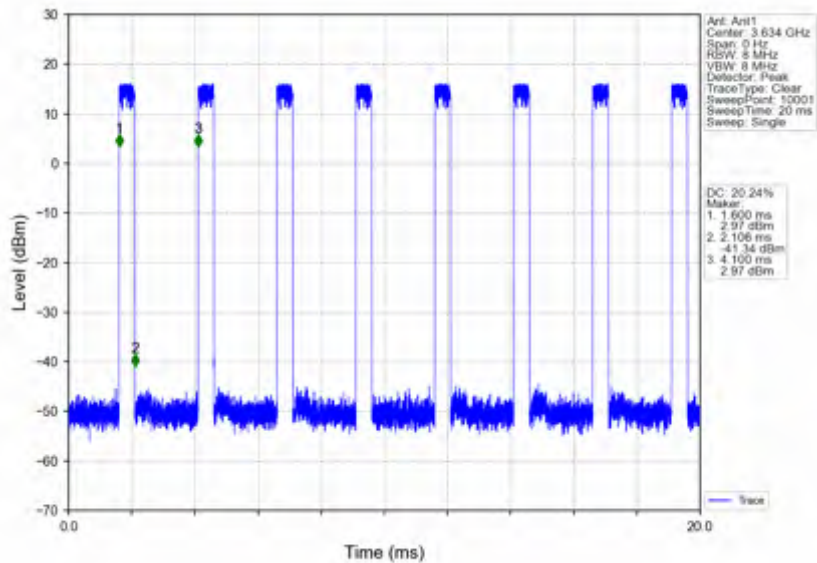
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Edge_1RB_Right



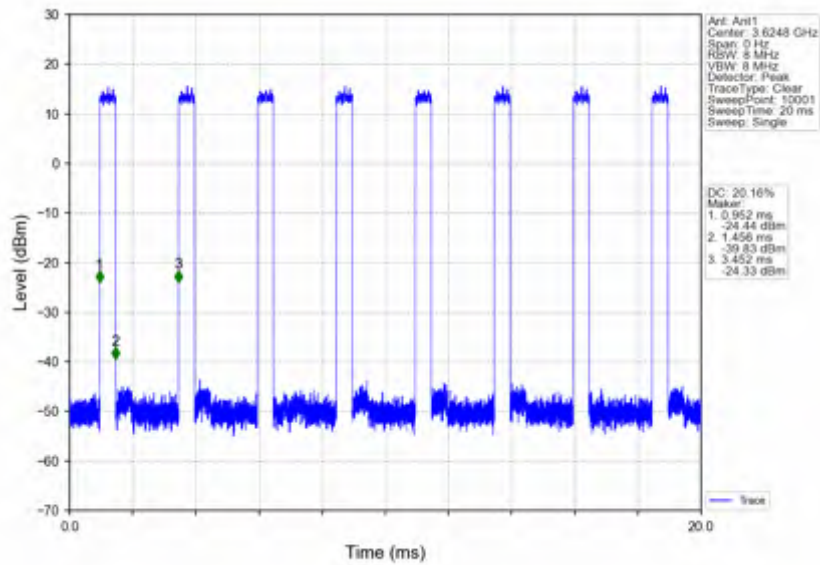
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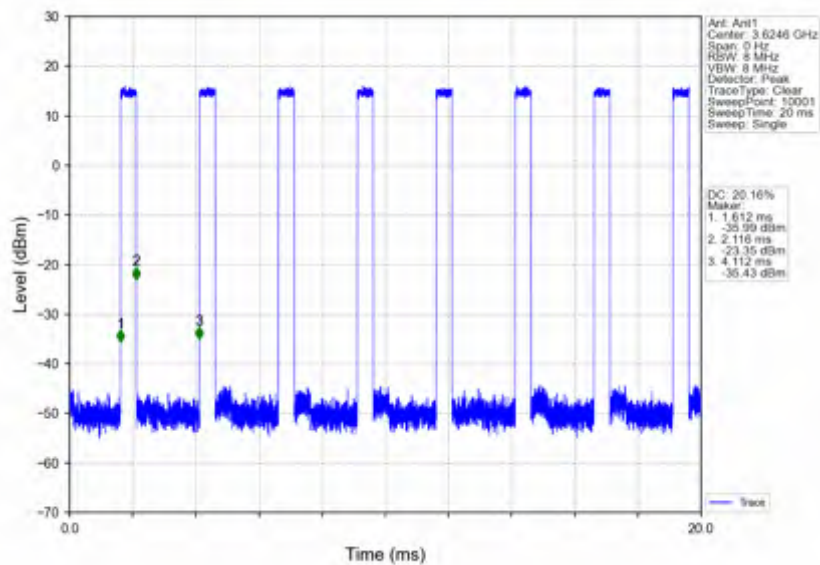
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Inner_Full



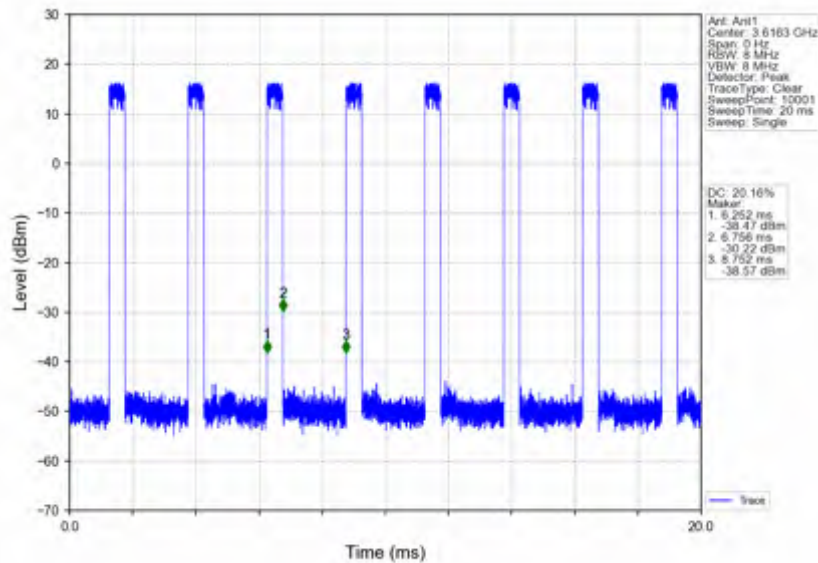
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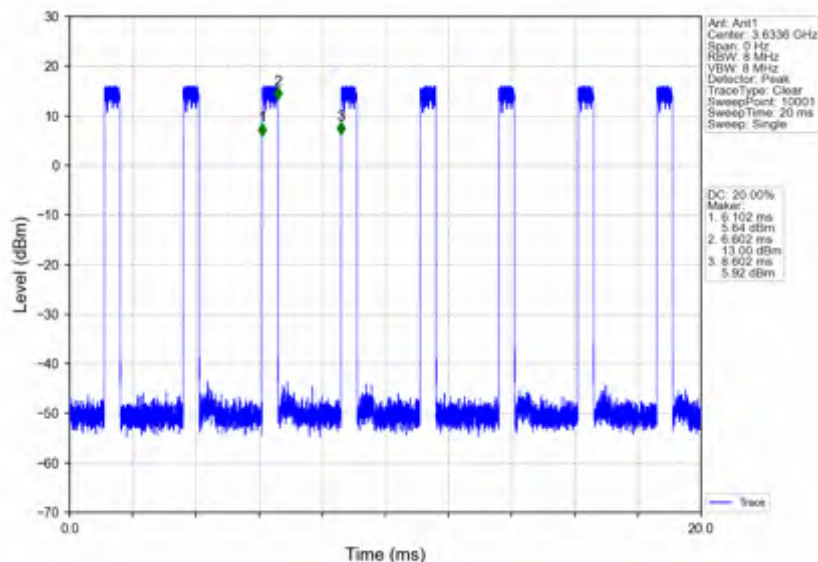
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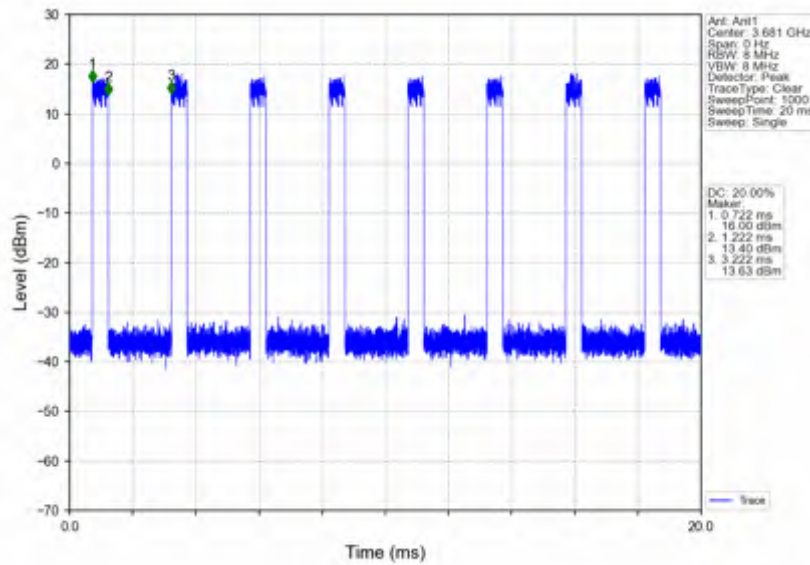


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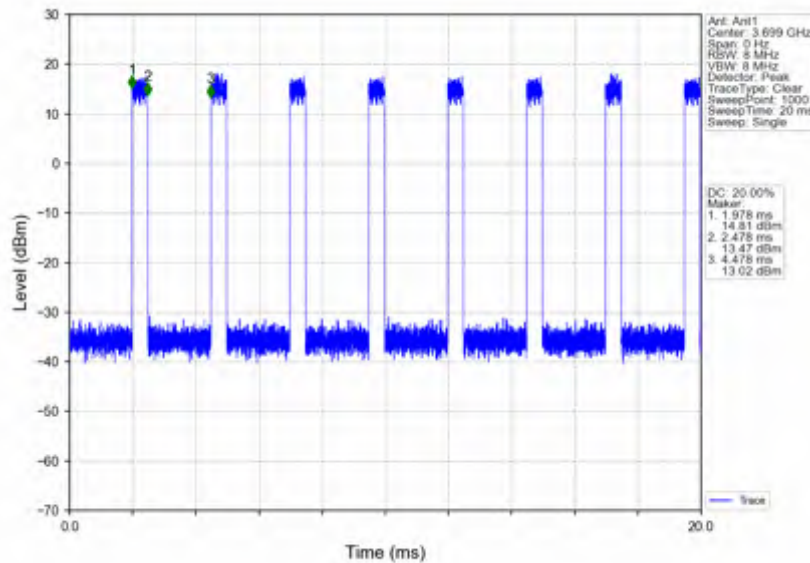
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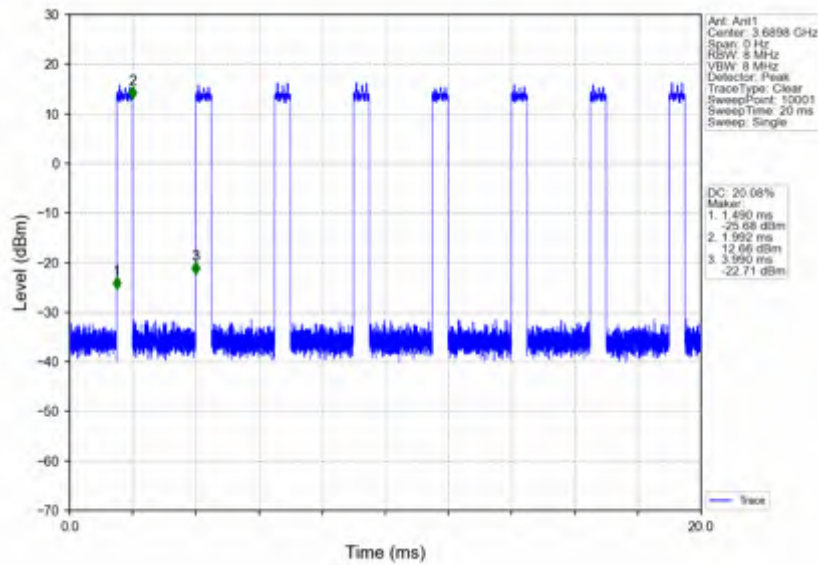
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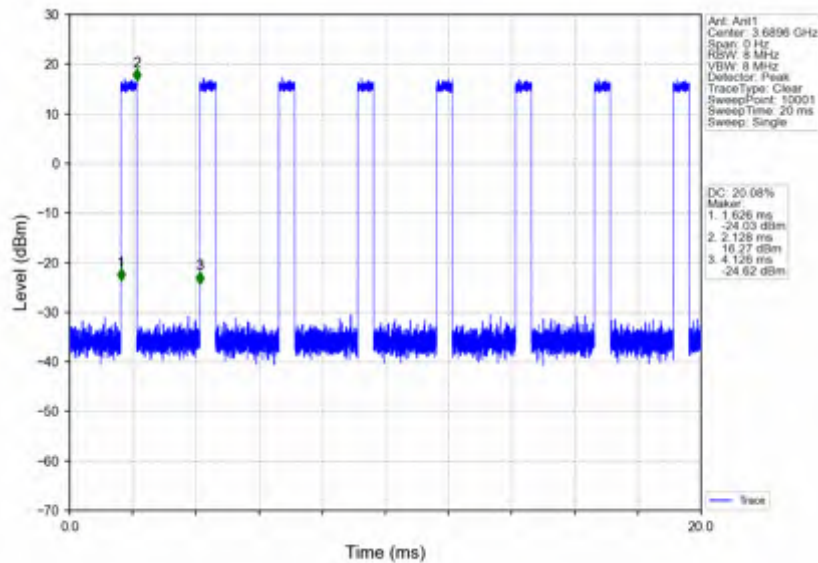
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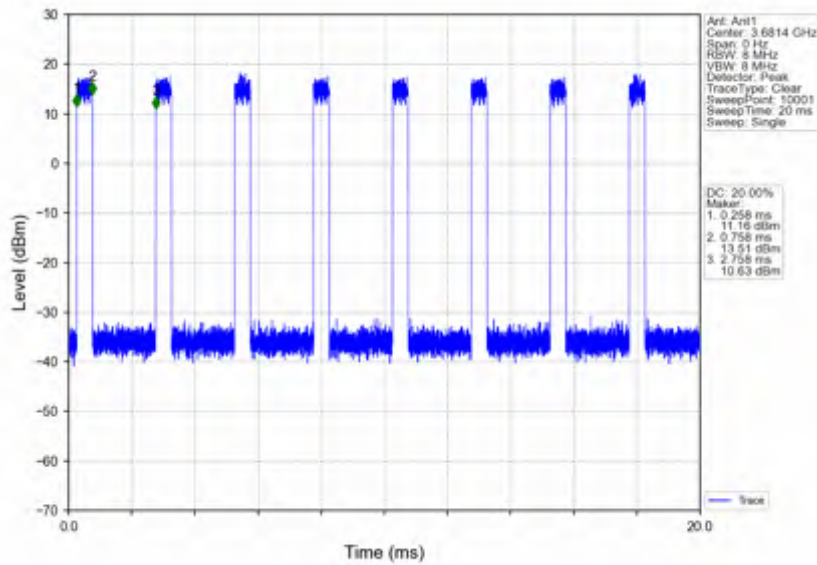
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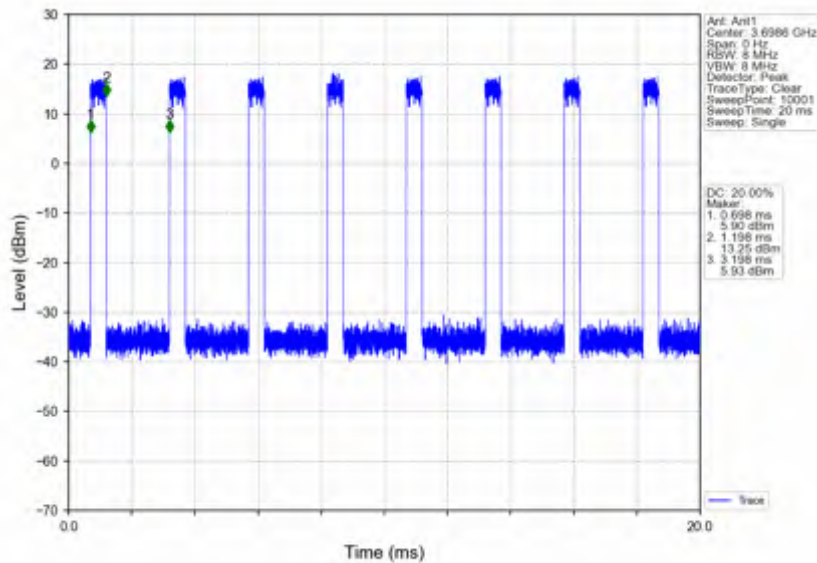
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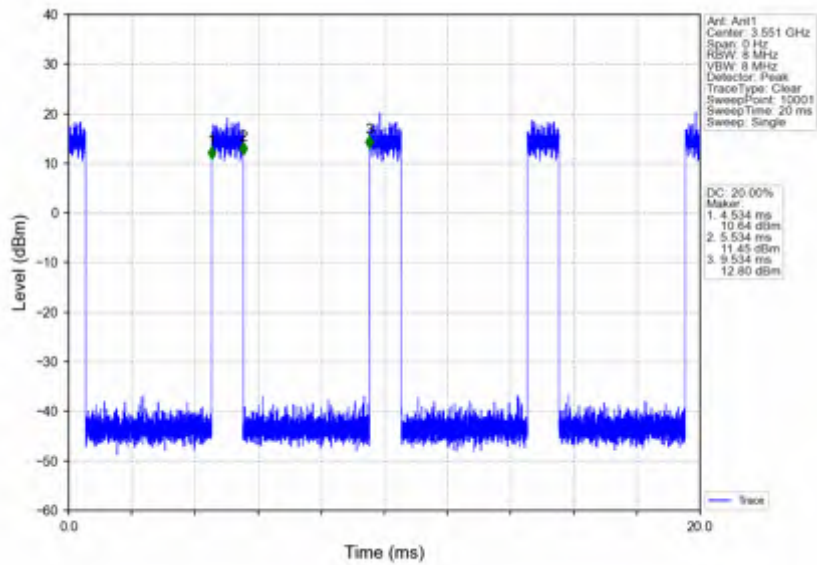
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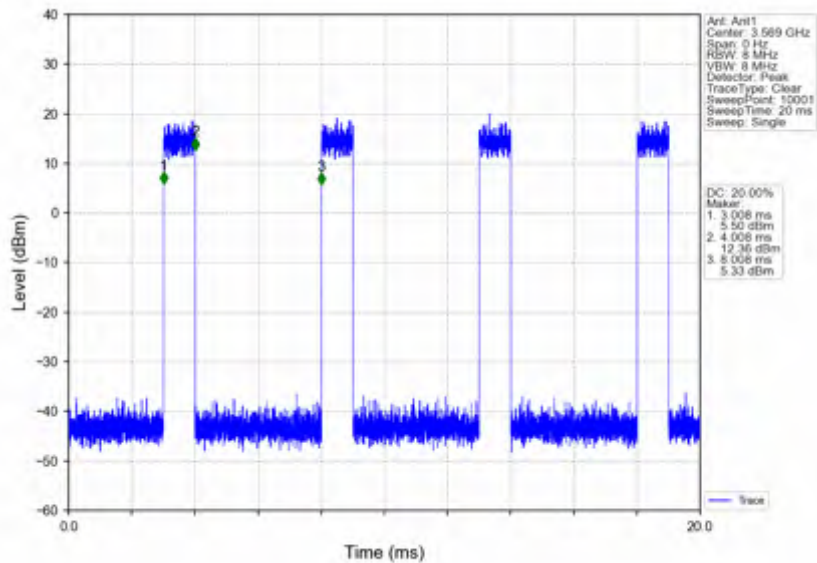
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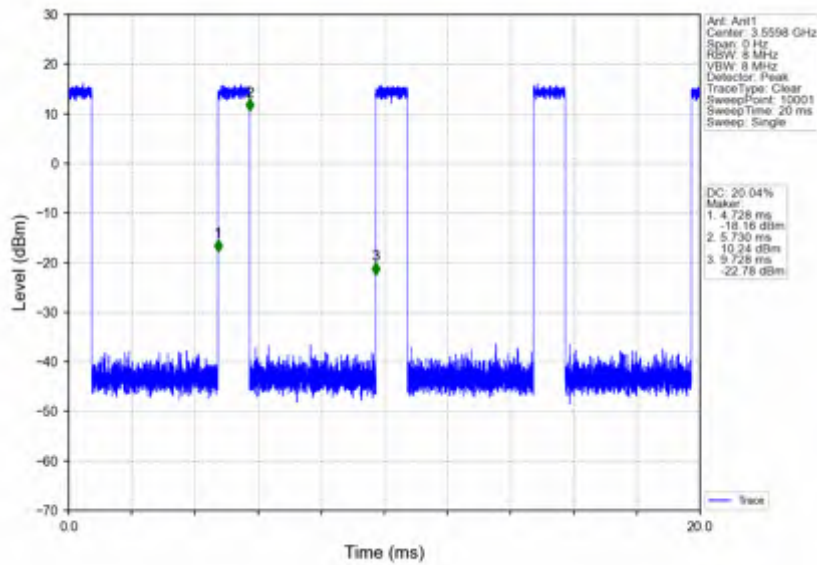
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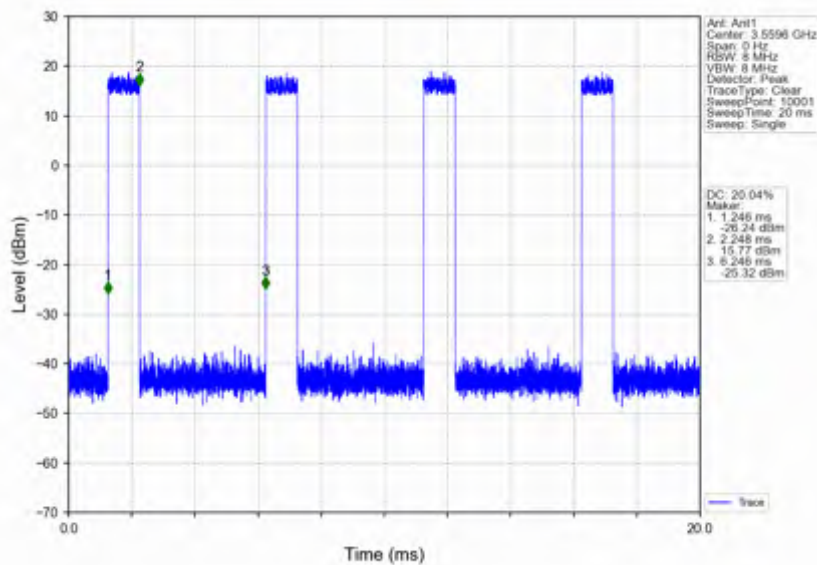
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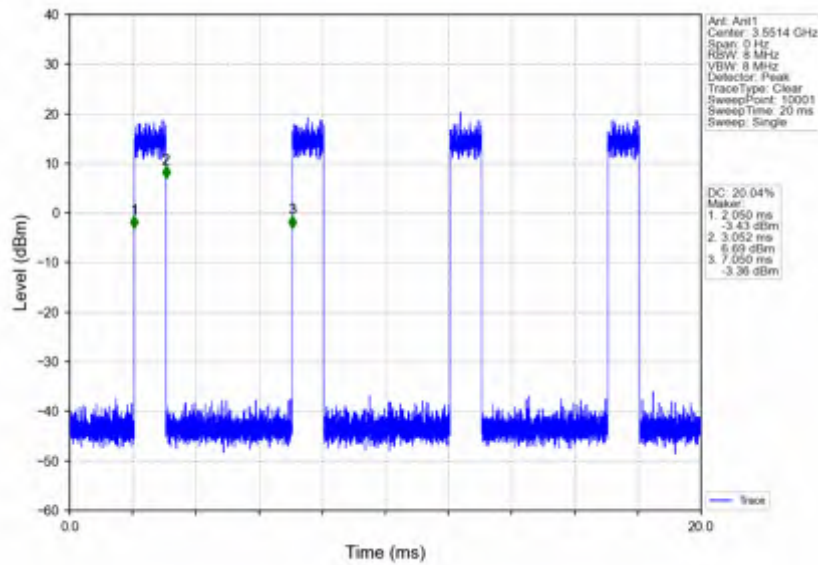
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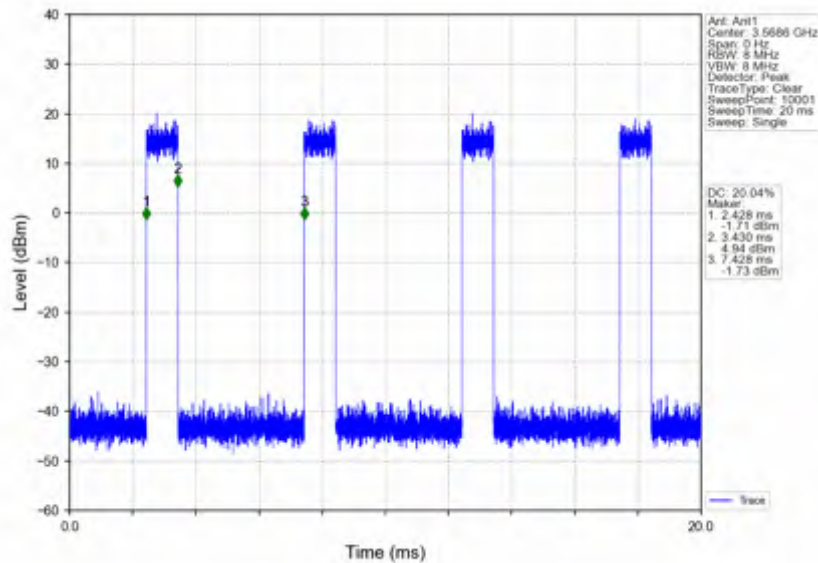
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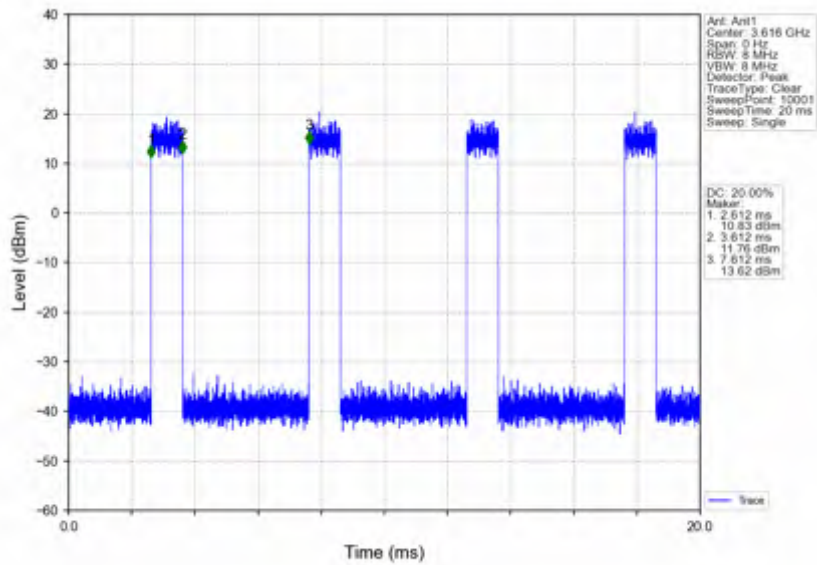
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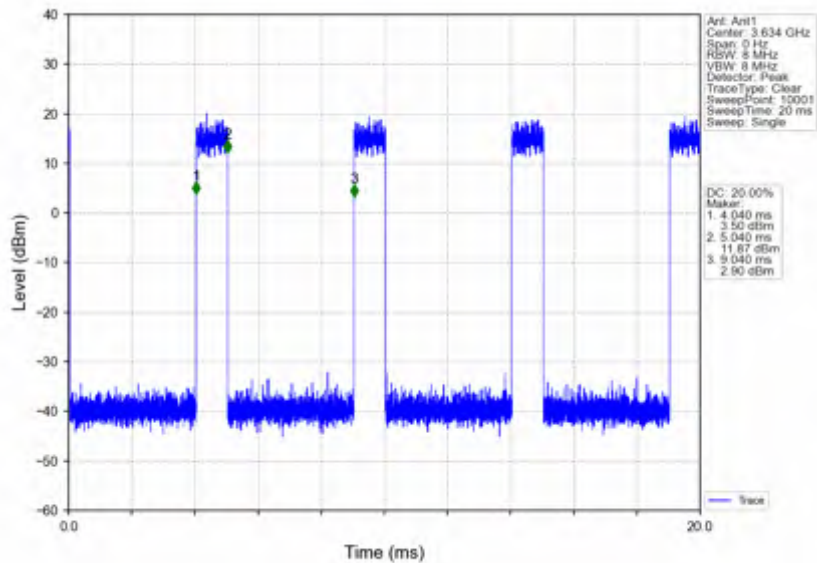
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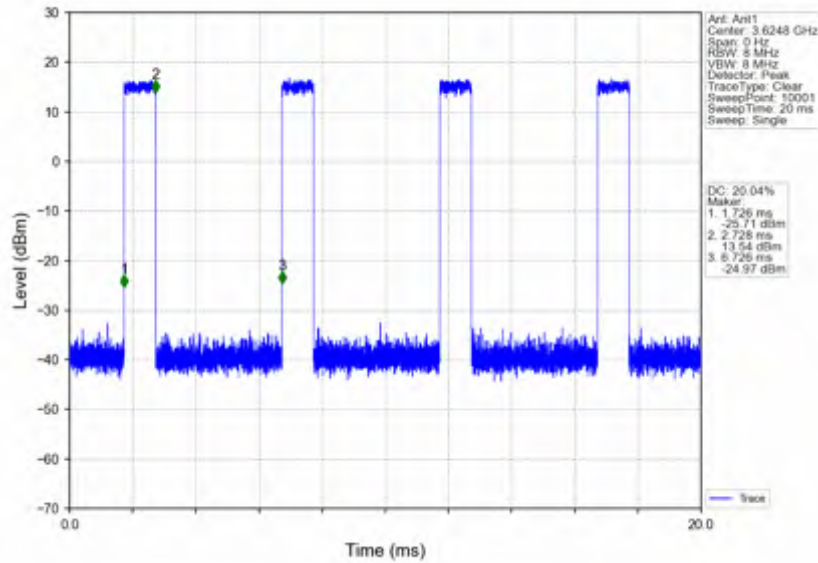
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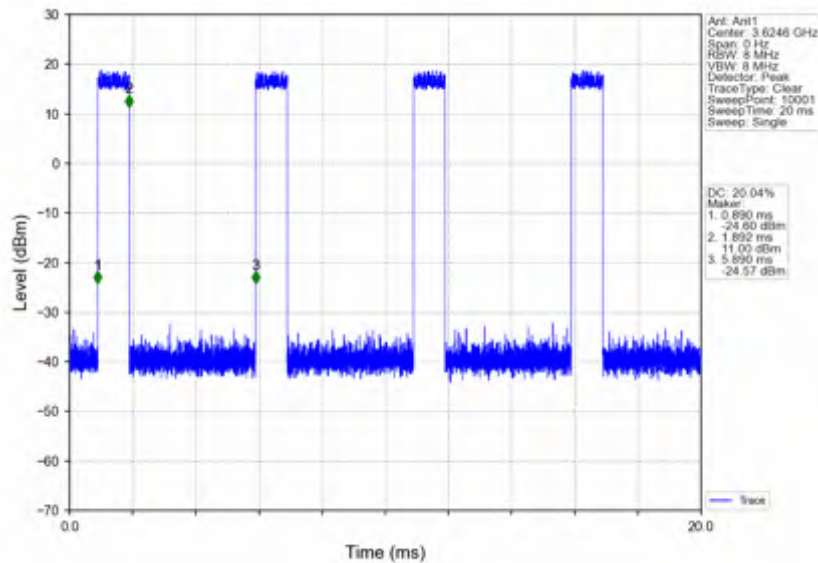
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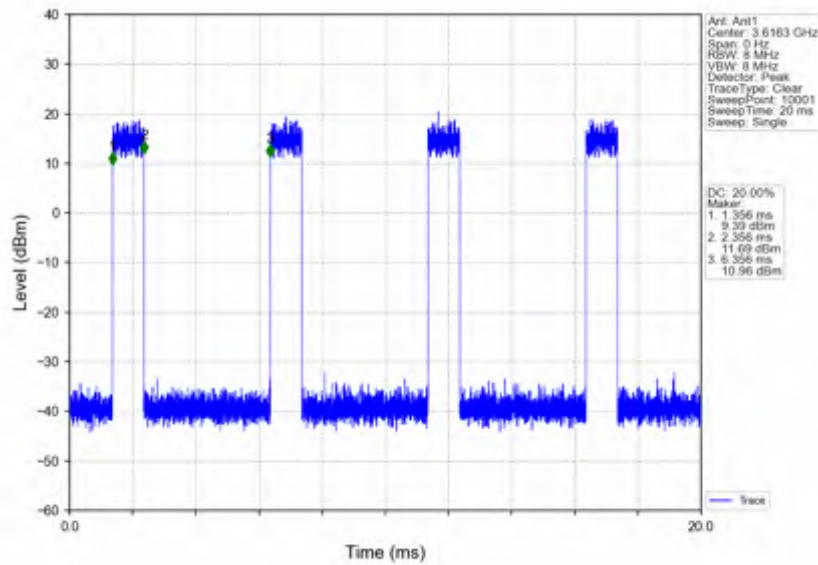
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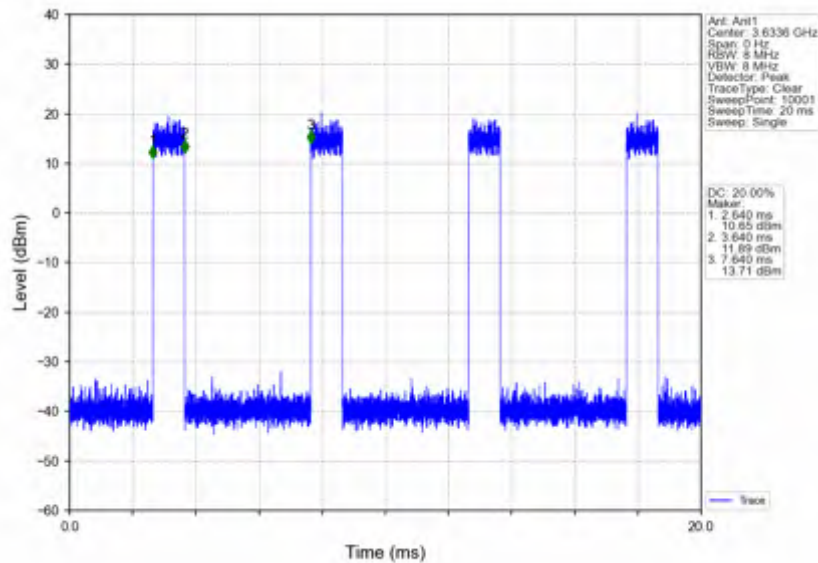
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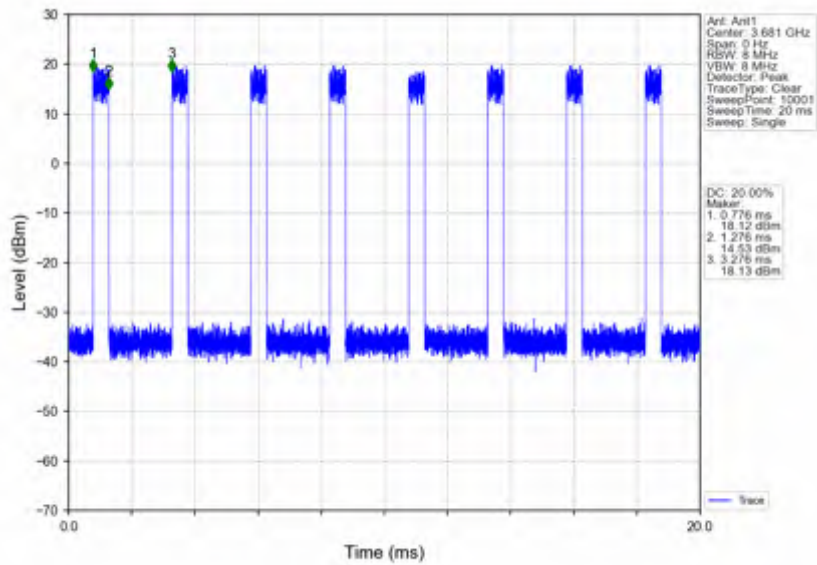
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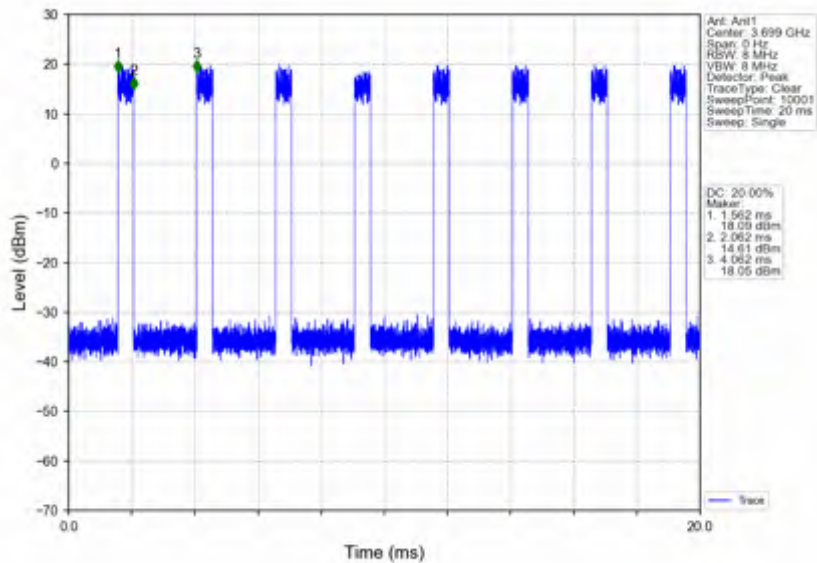
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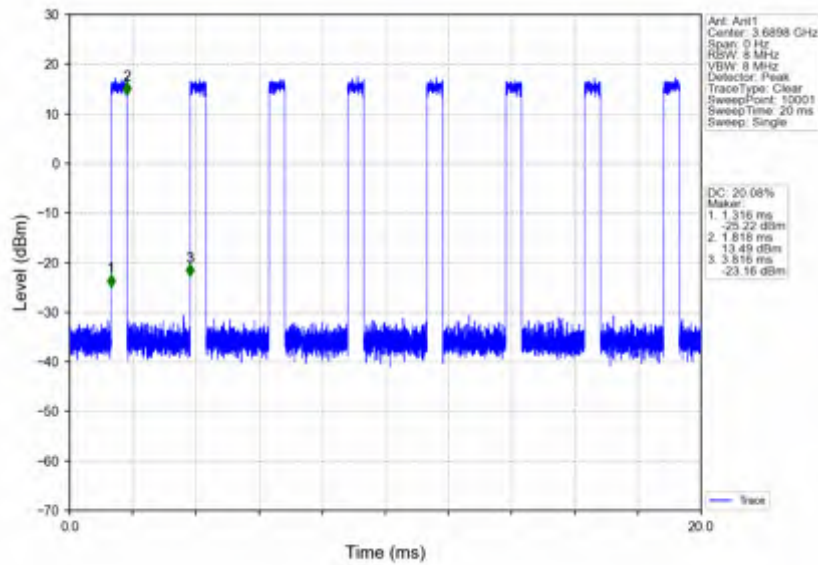
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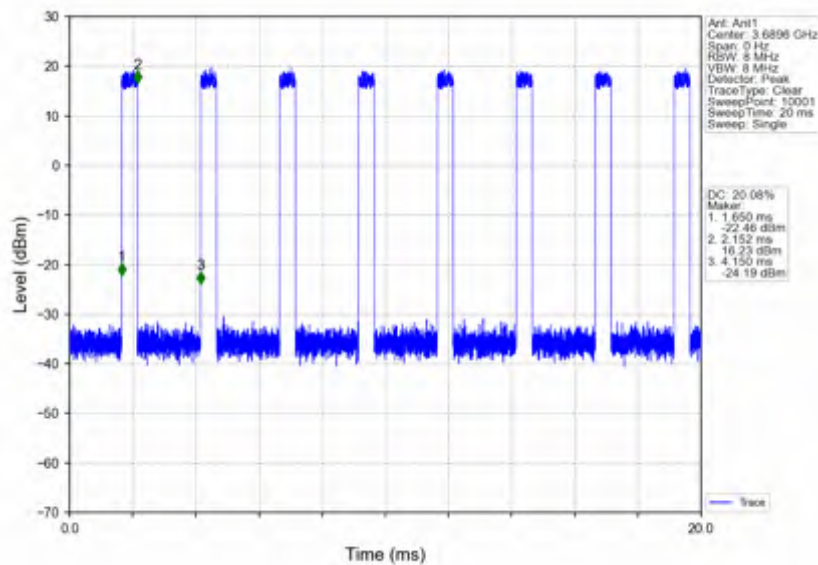
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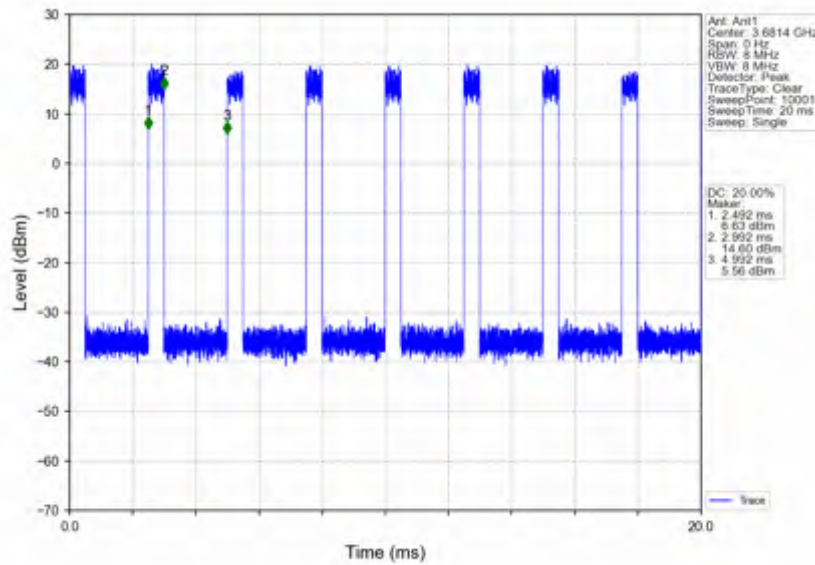
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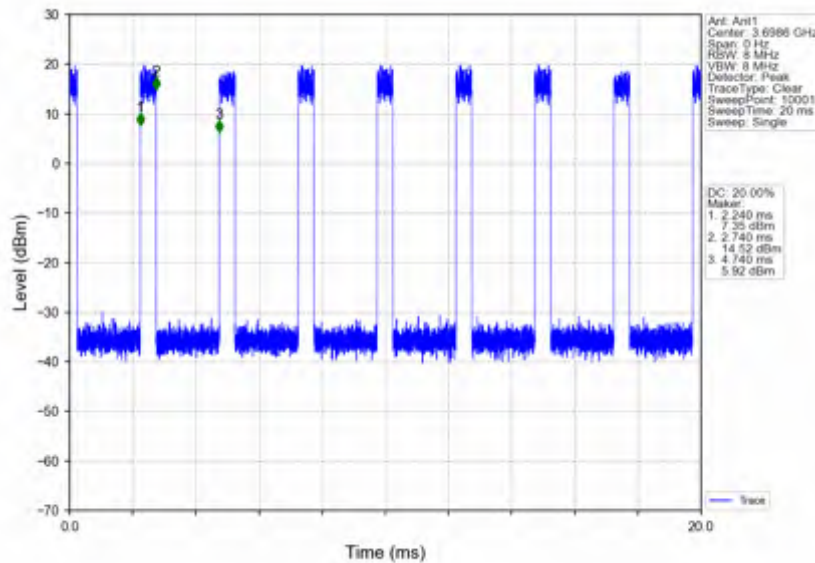
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Inner_1RB_Left



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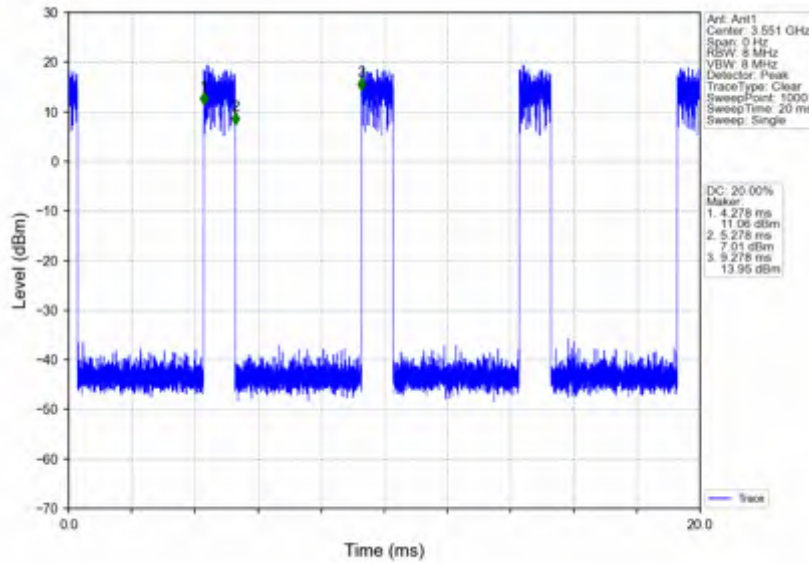
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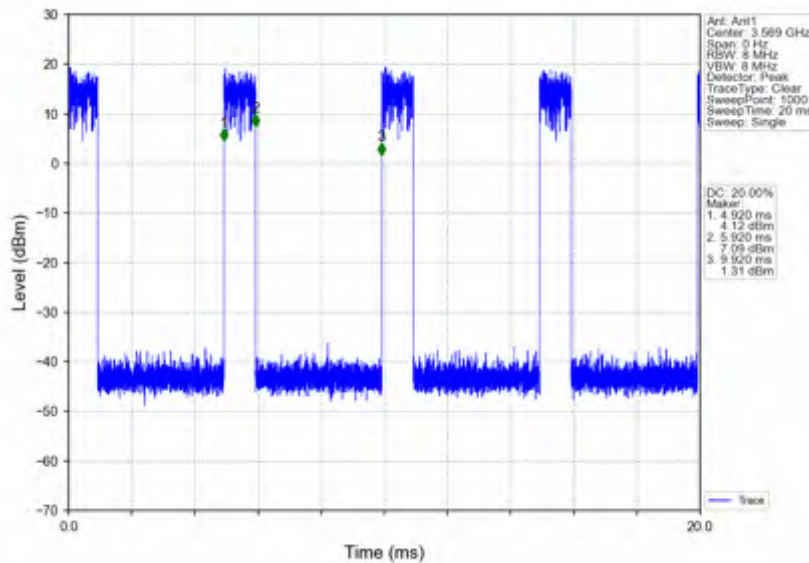
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_3560.01MHz_Edge_1RB_Left



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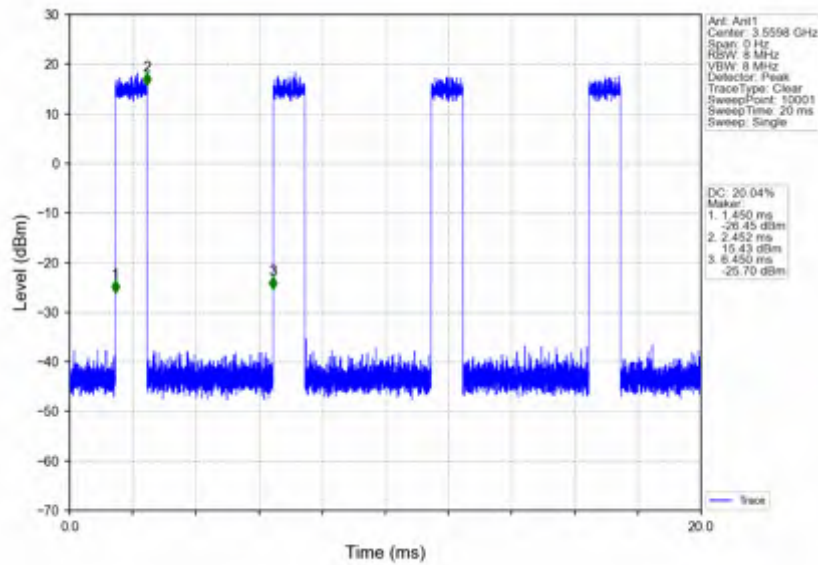


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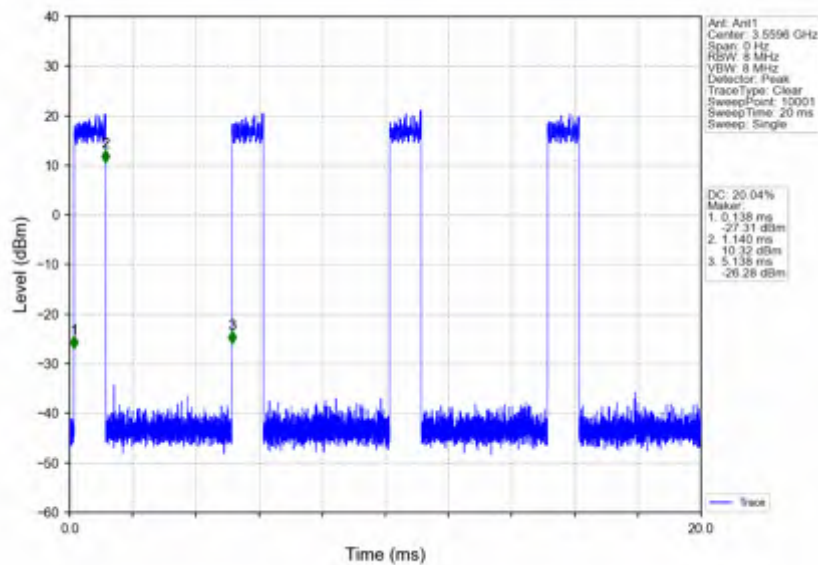
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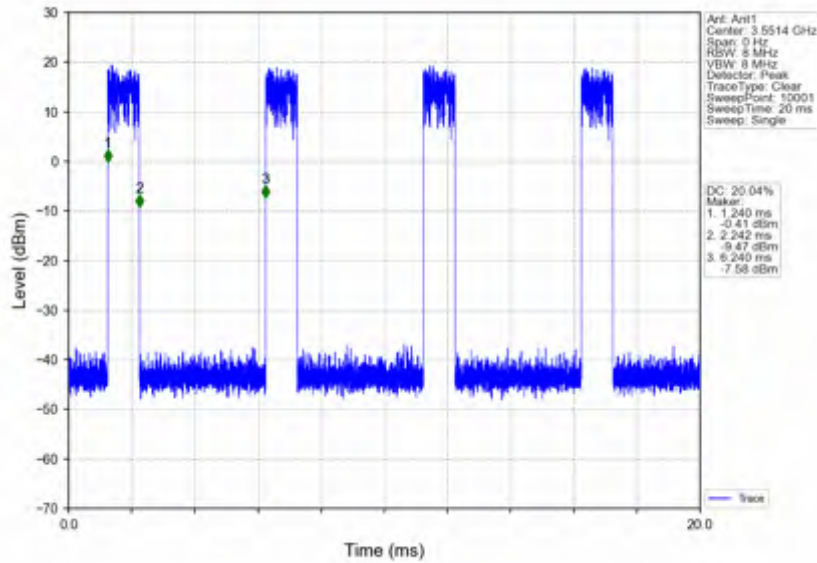
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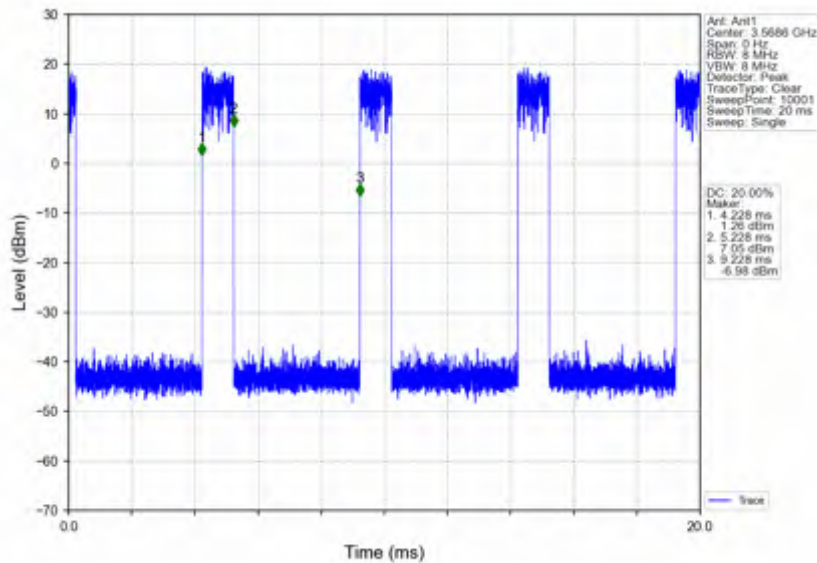
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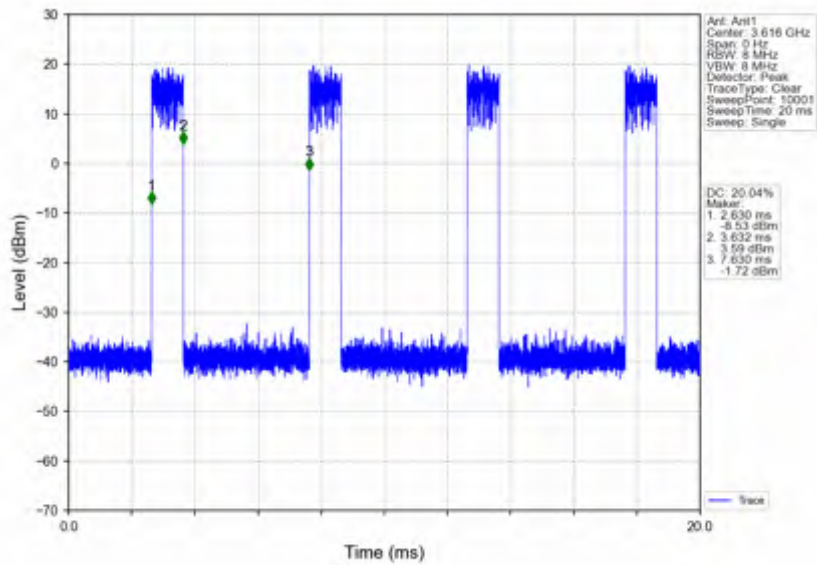
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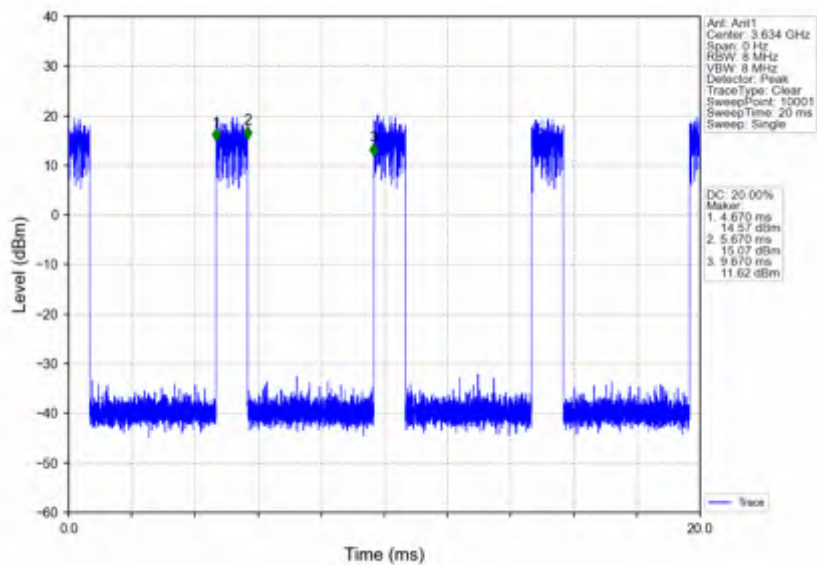
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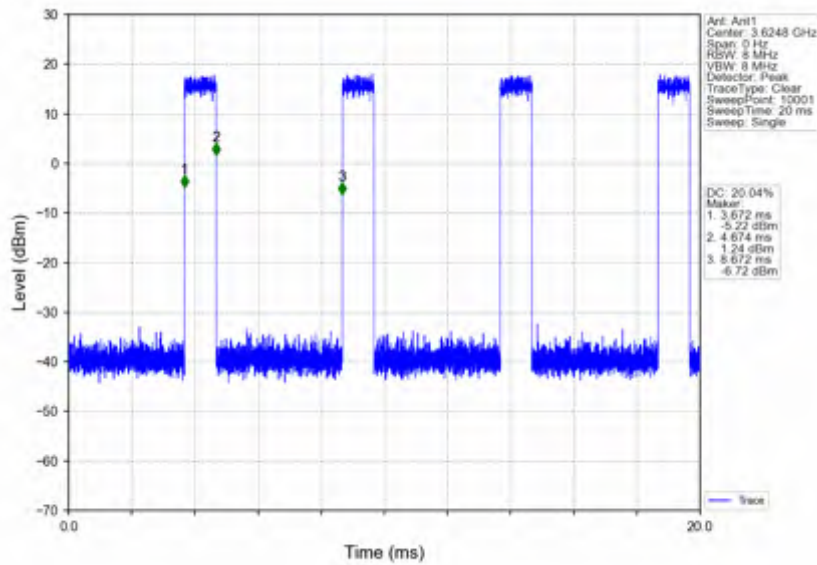
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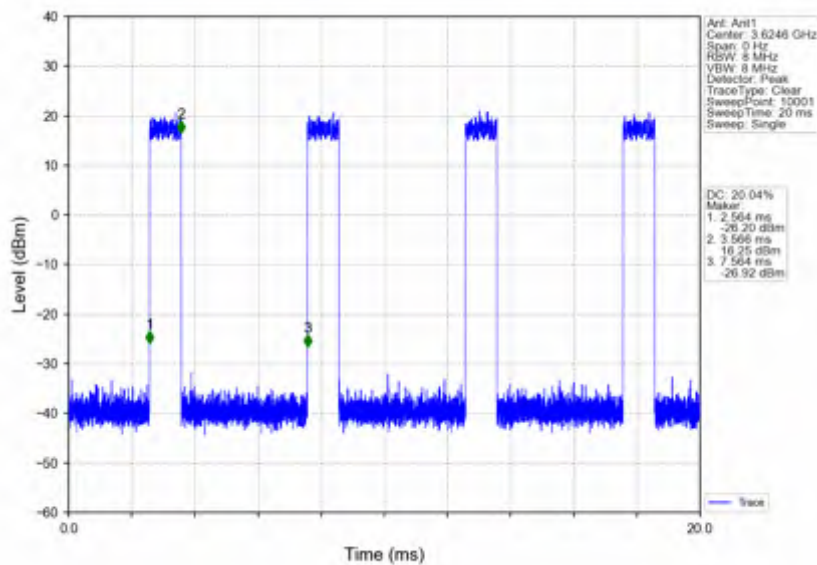
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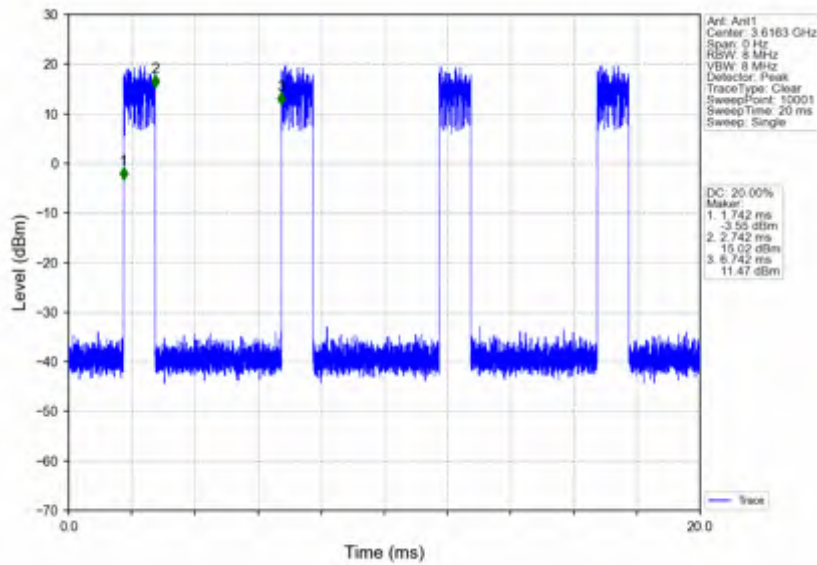


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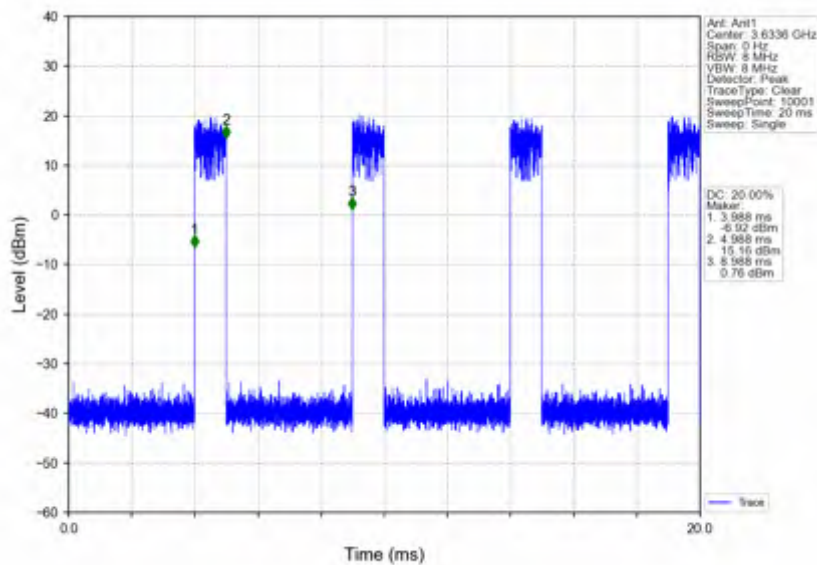
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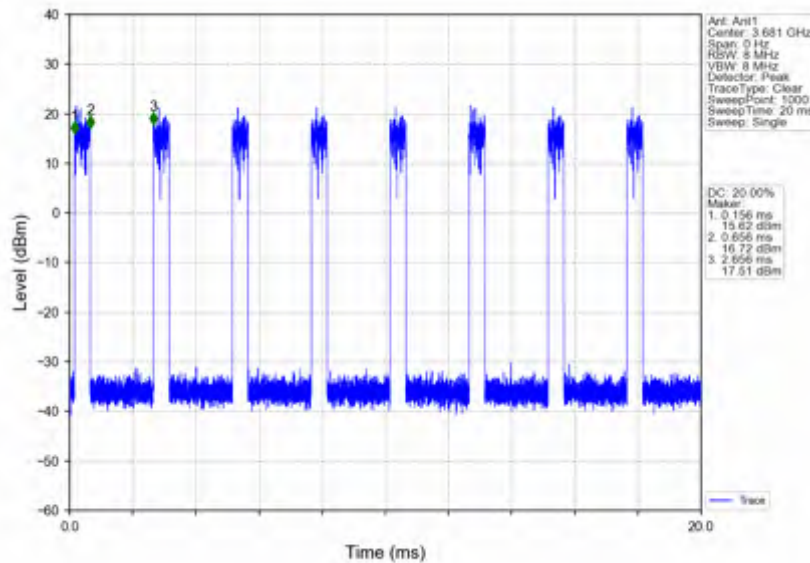


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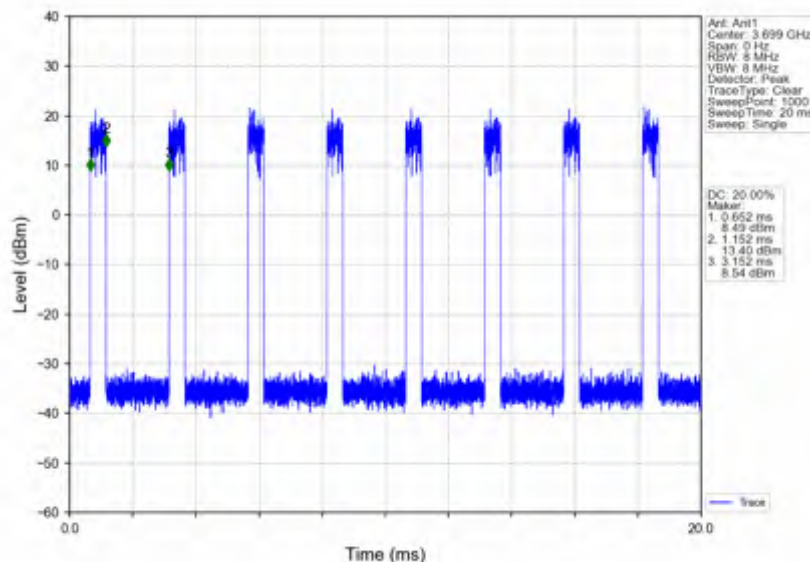
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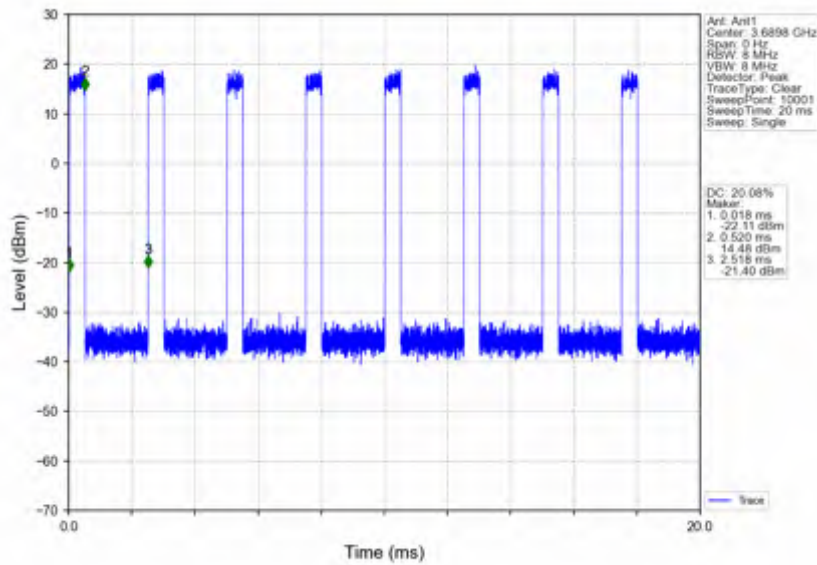


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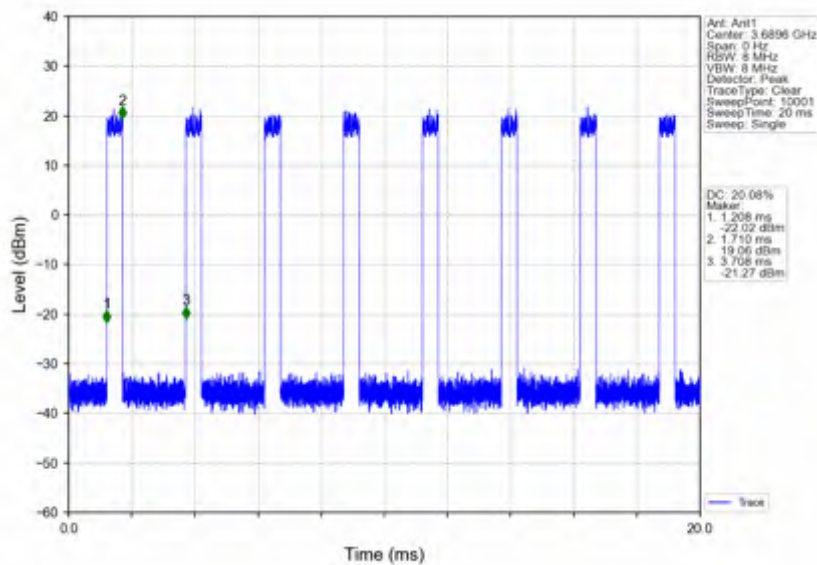
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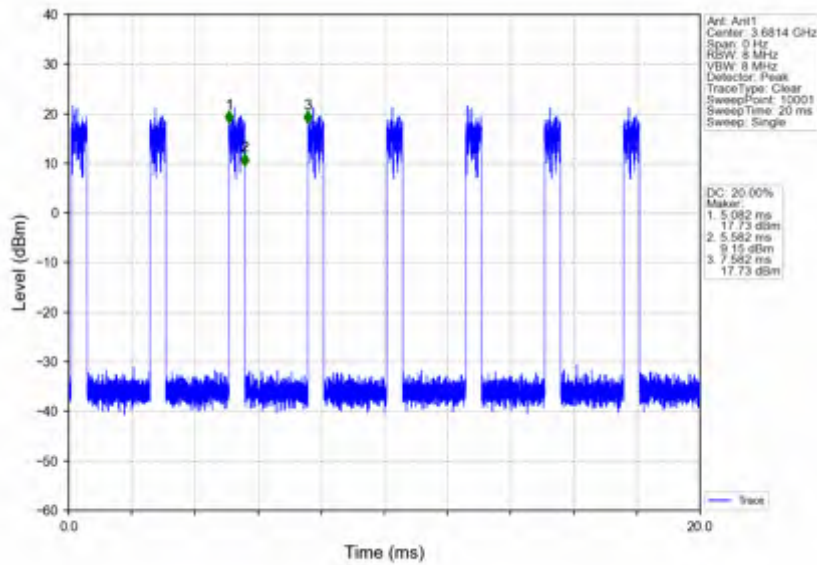
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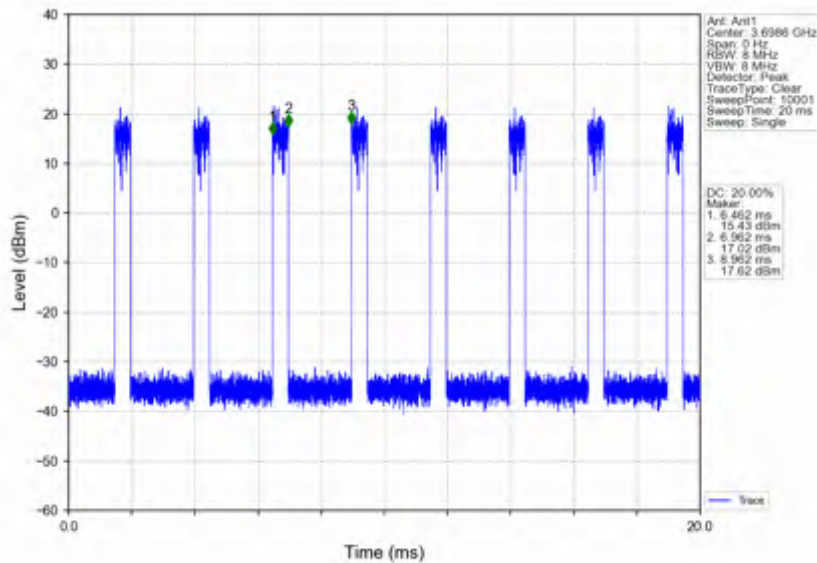
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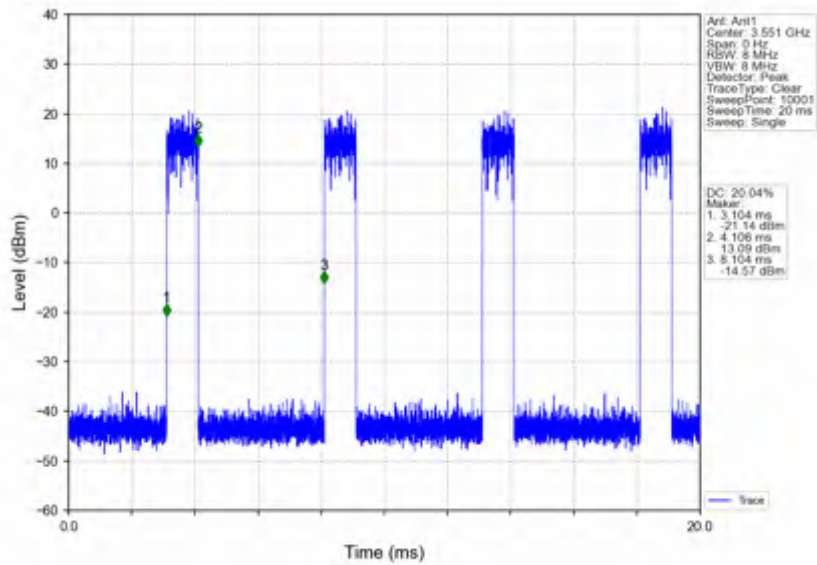


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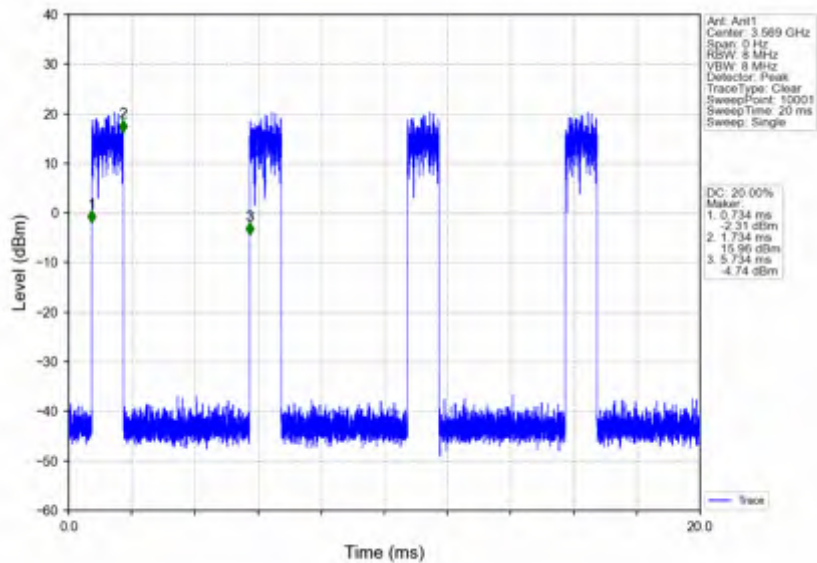
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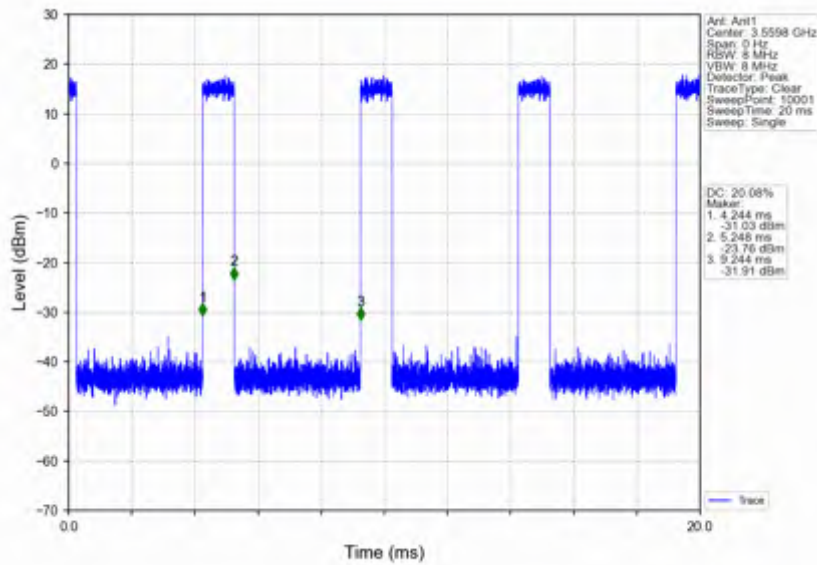


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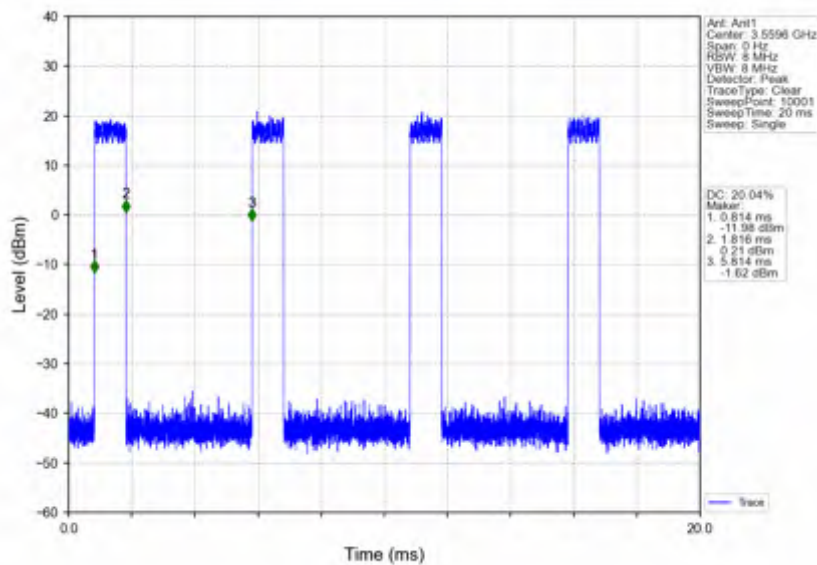
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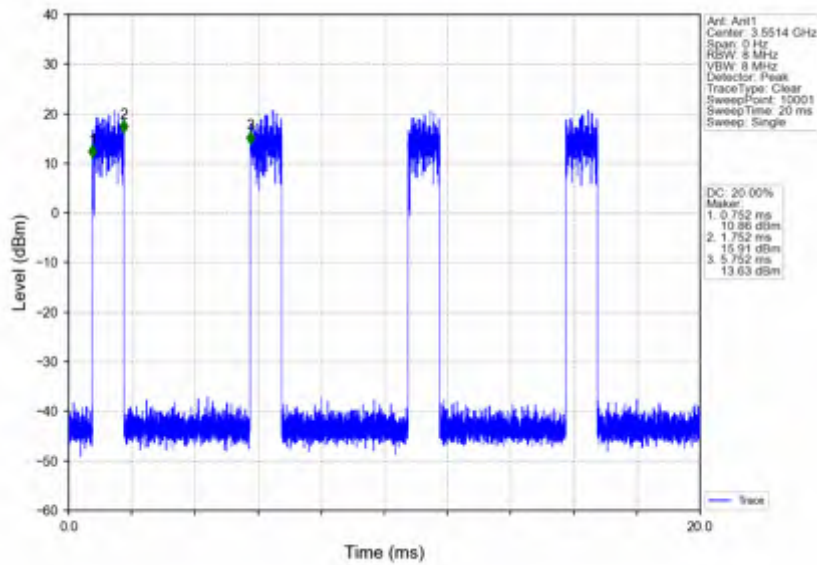


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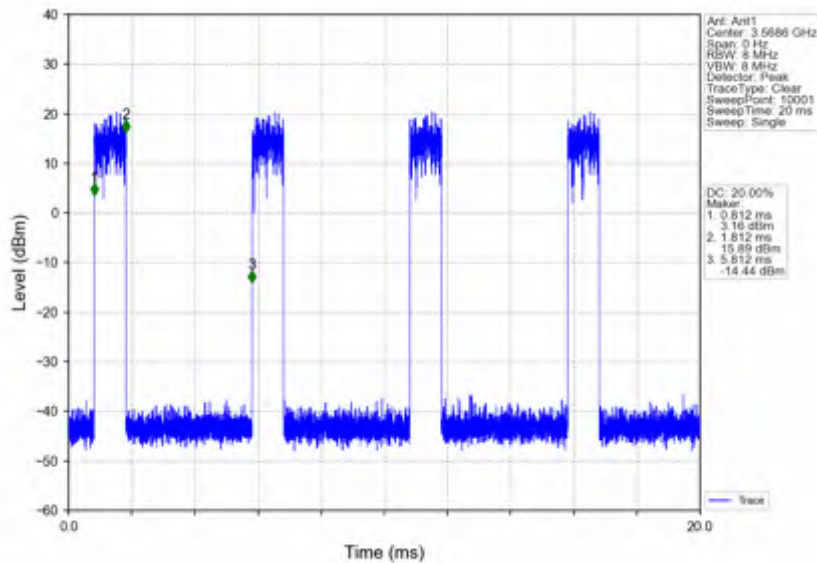
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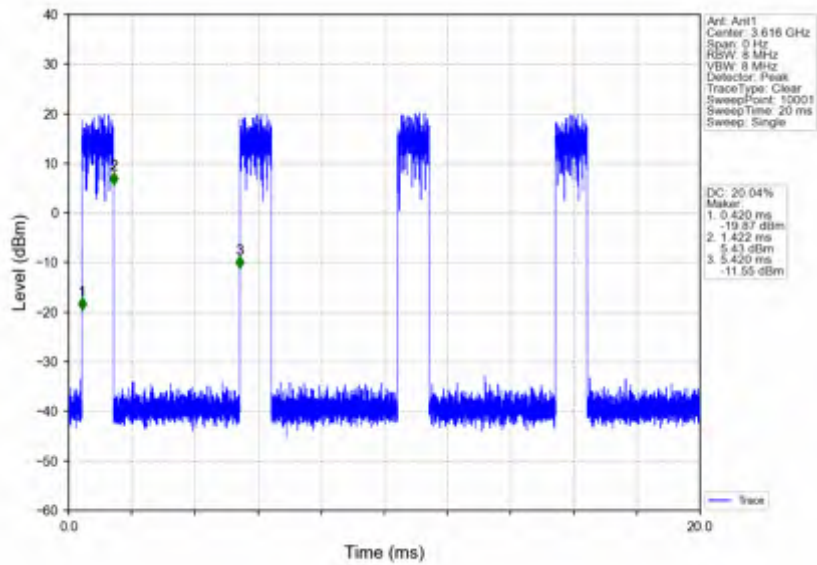


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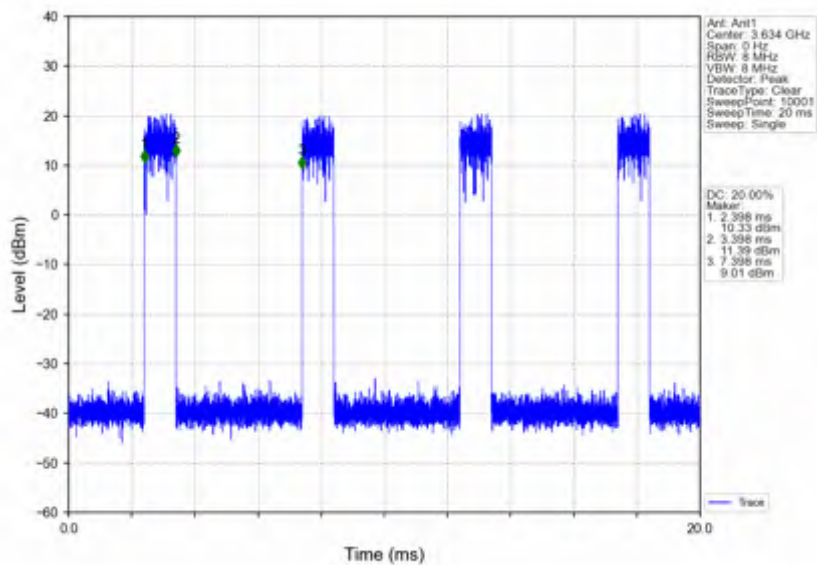
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Edge_1RB_Left



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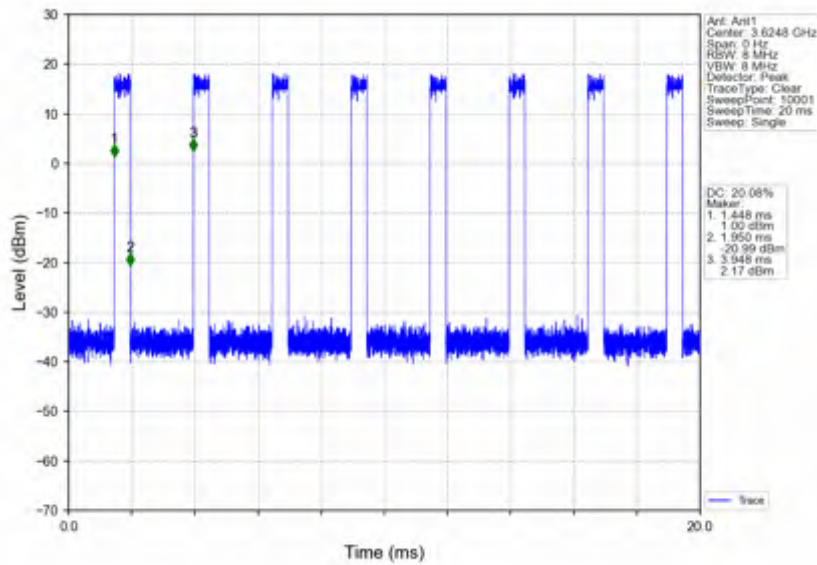
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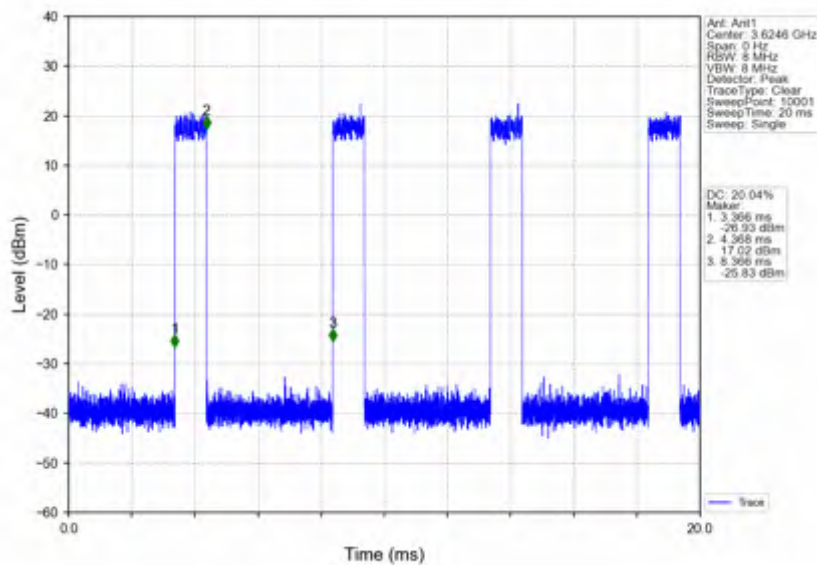
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



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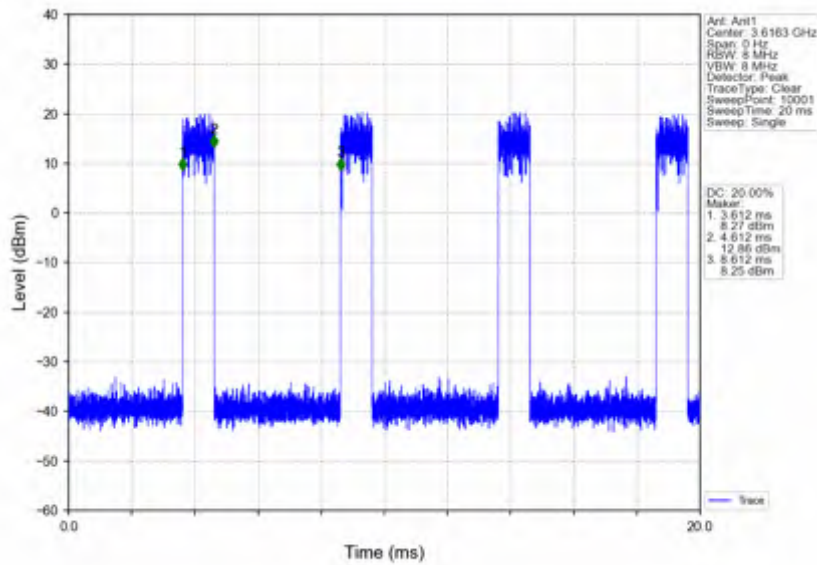
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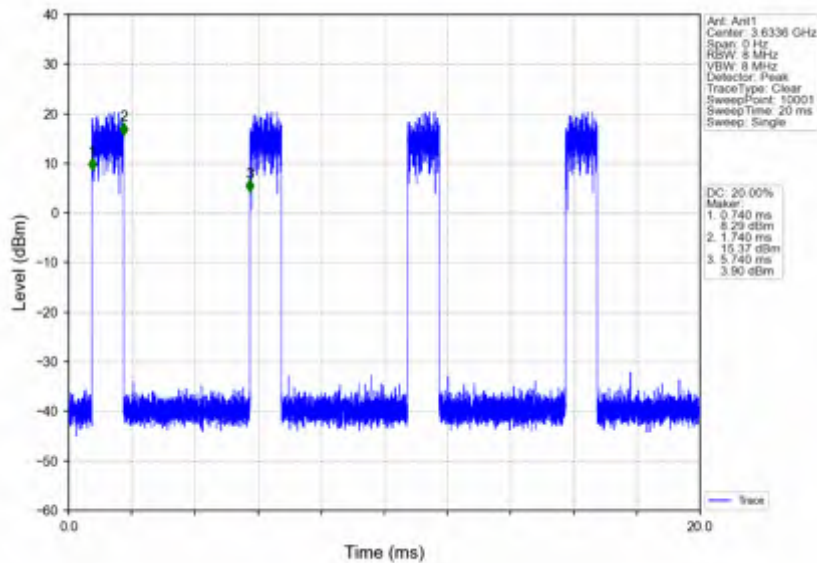
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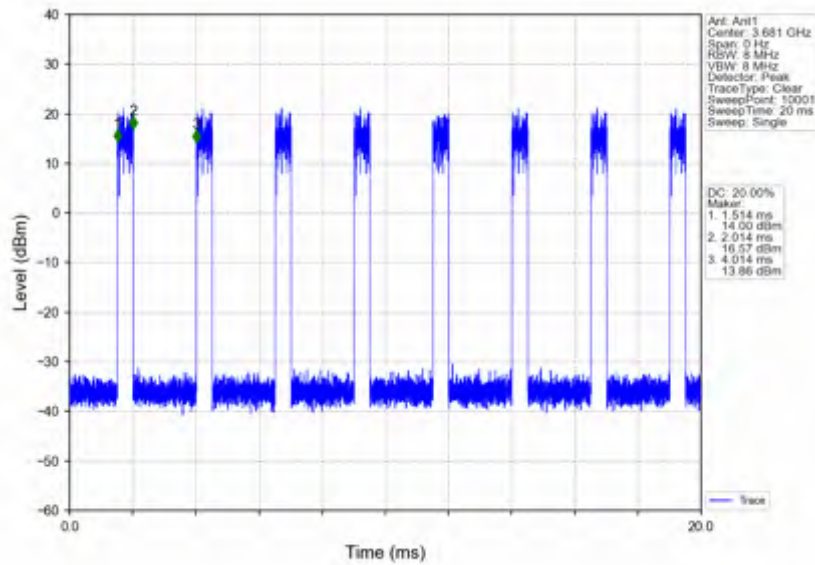


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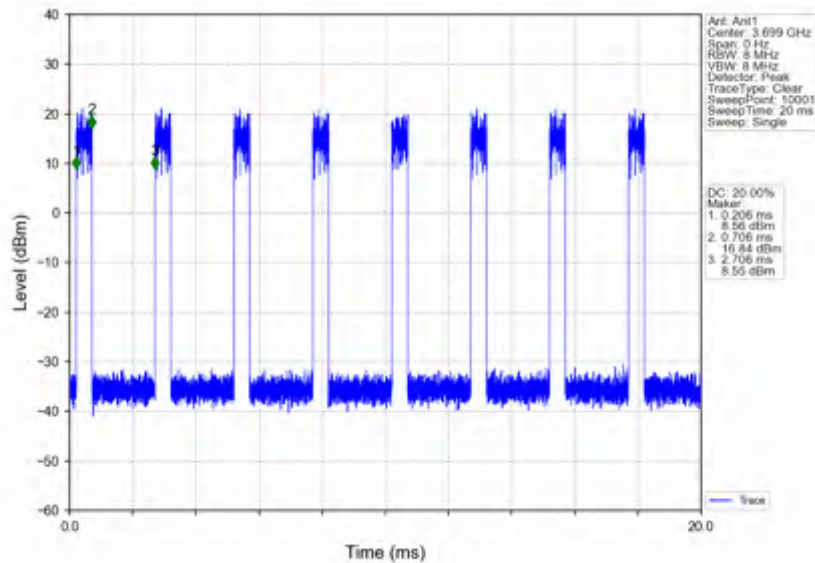
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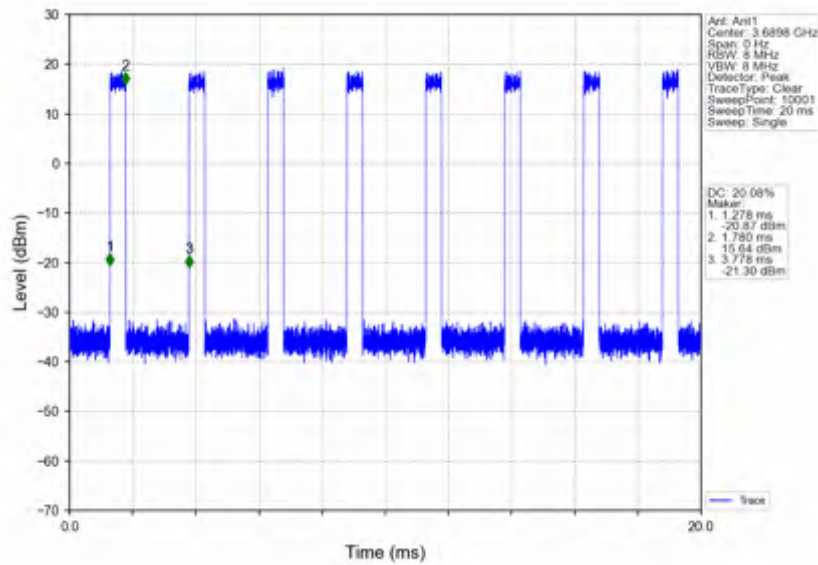


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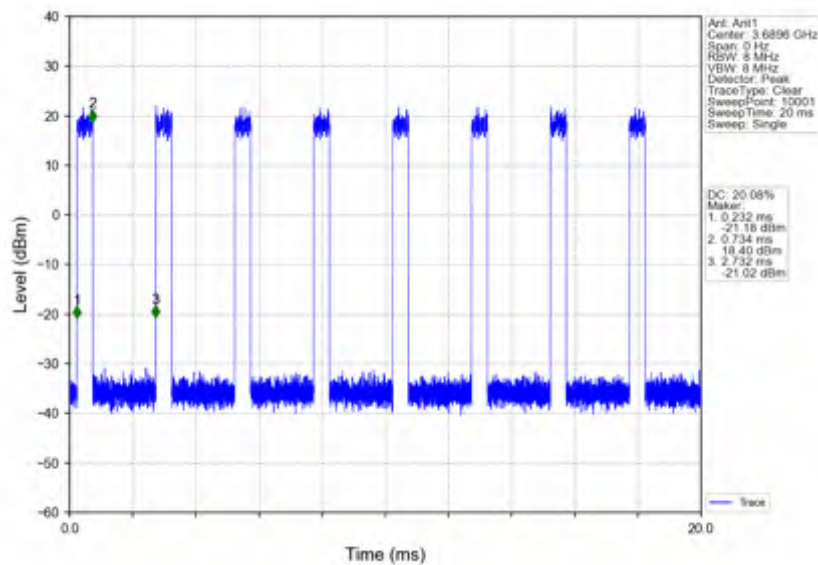
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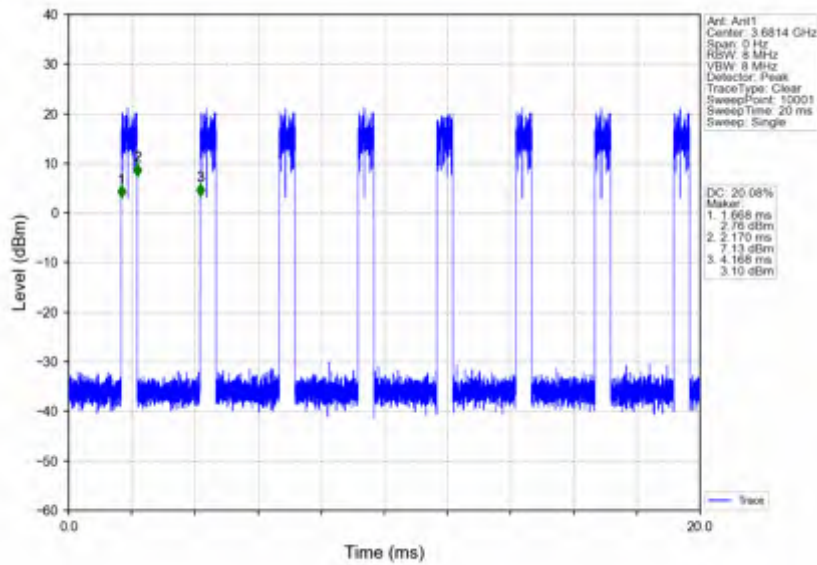


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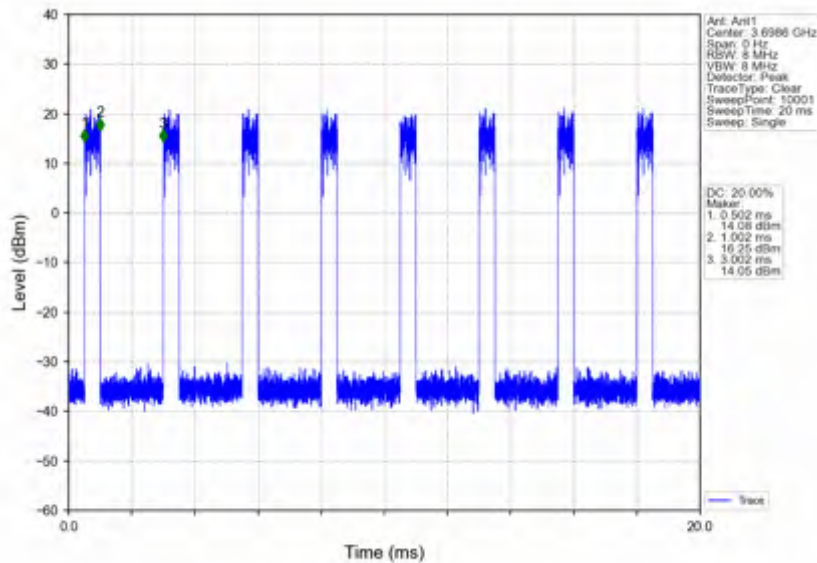
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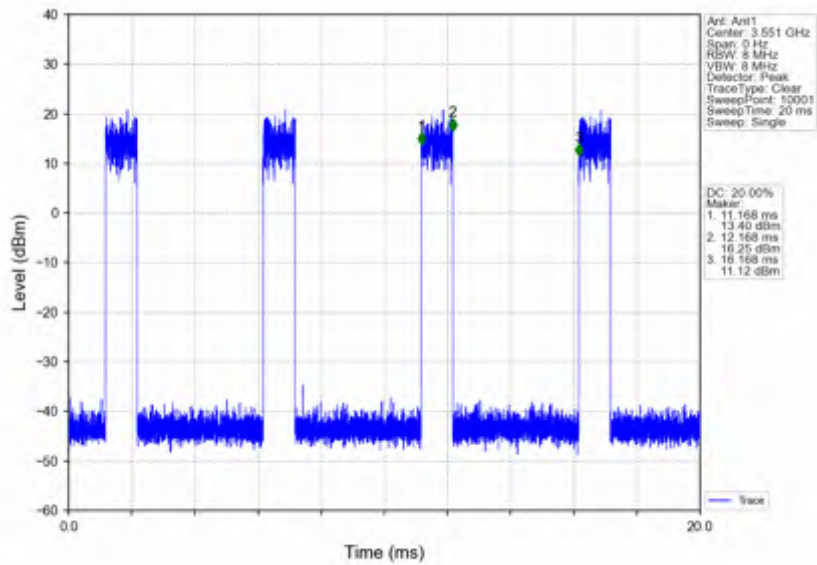
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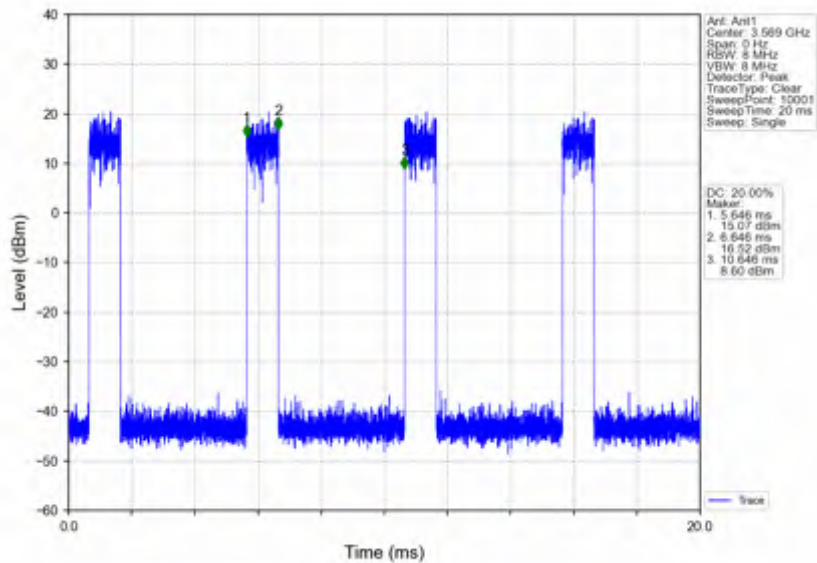
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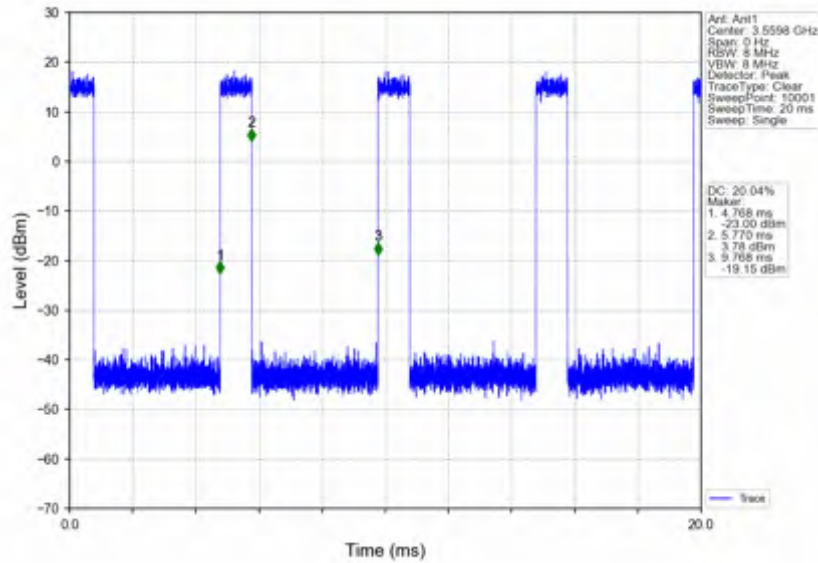


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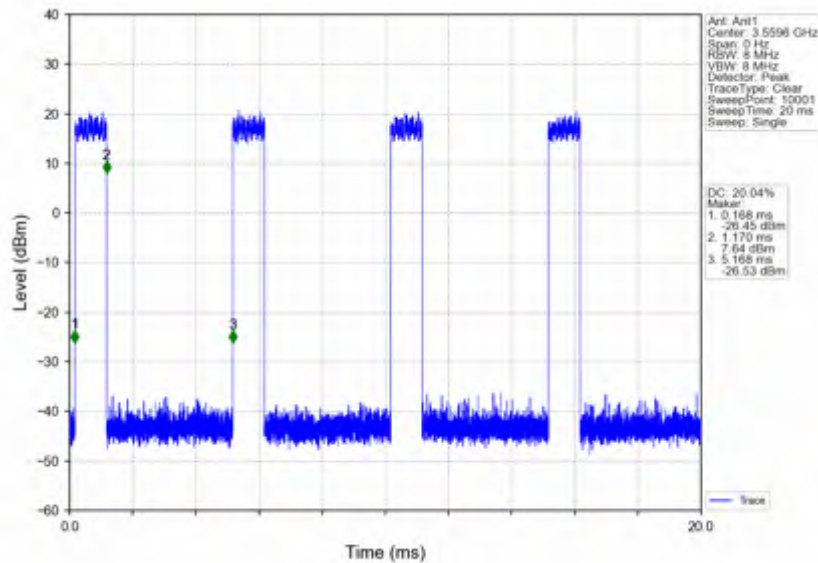
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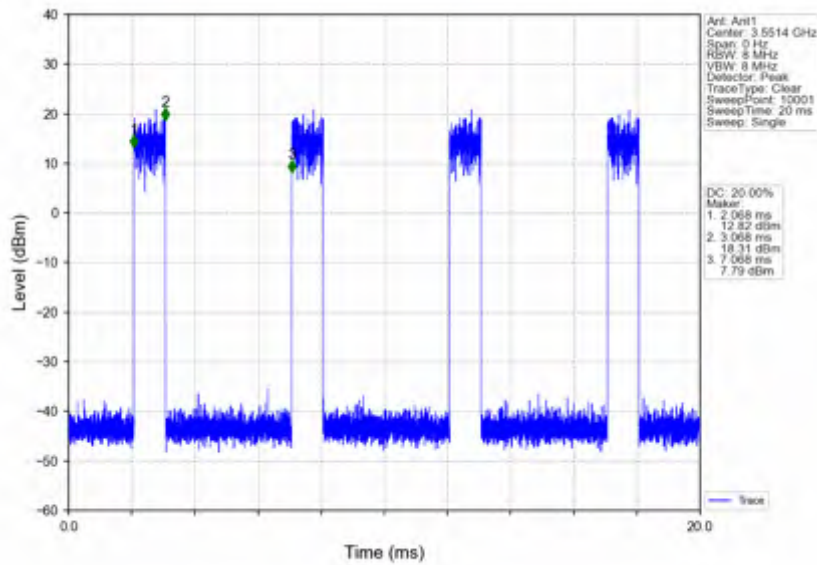
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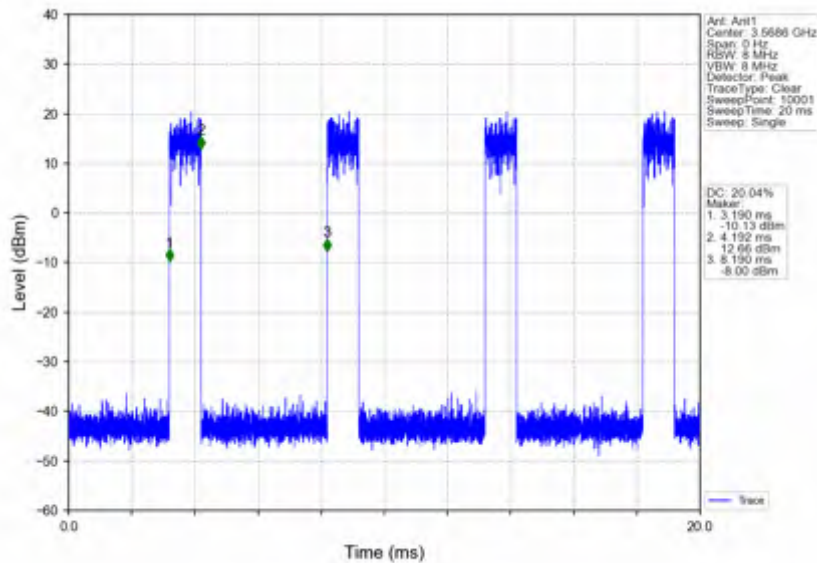
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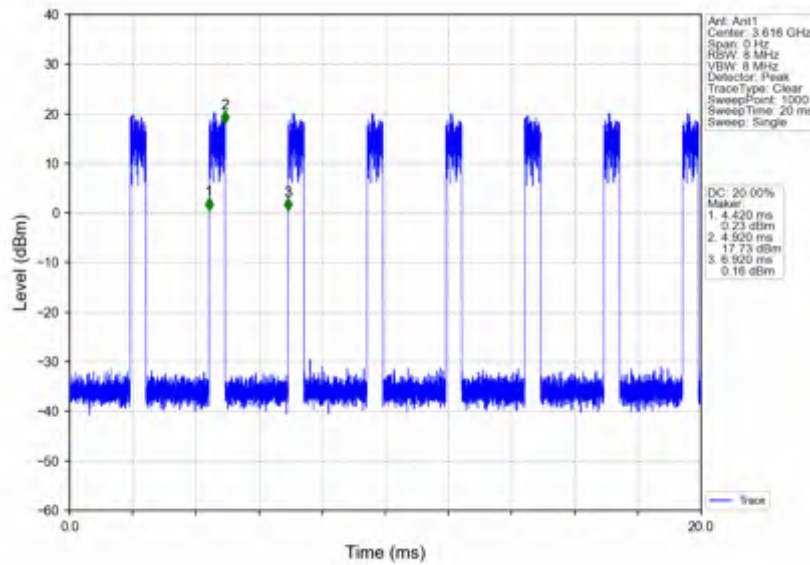


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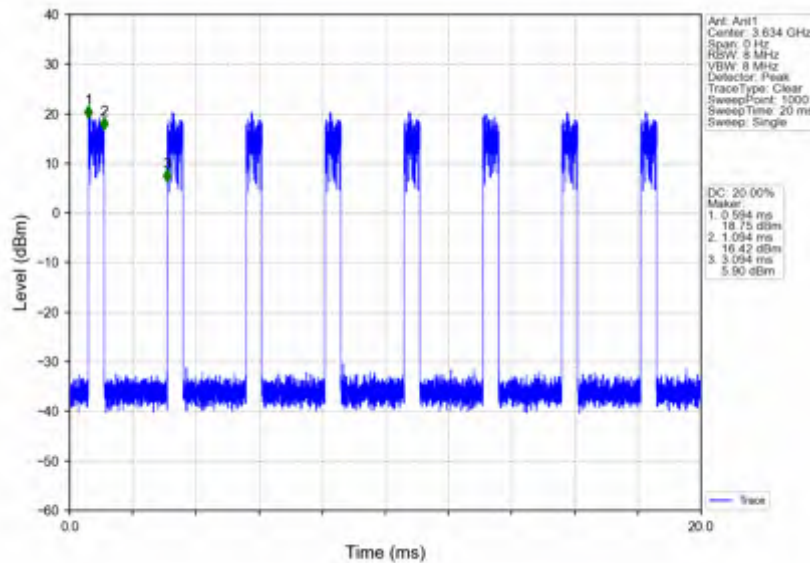
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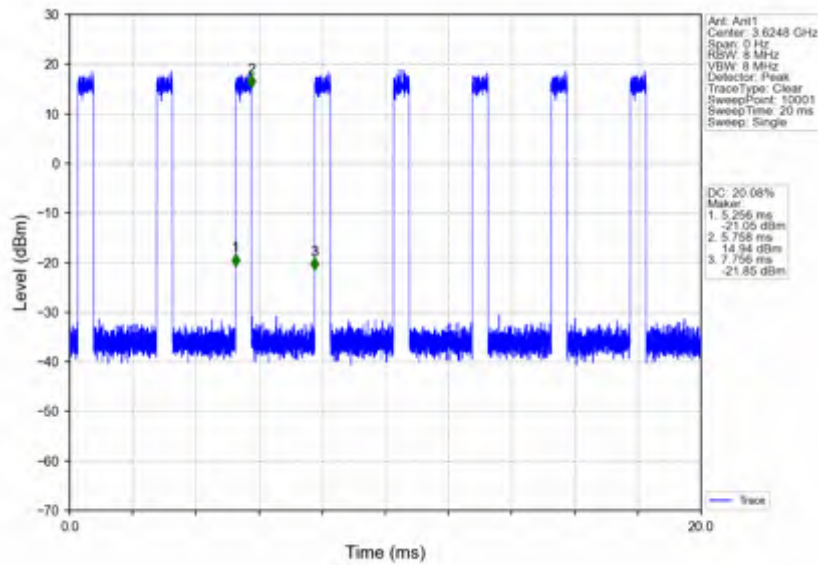


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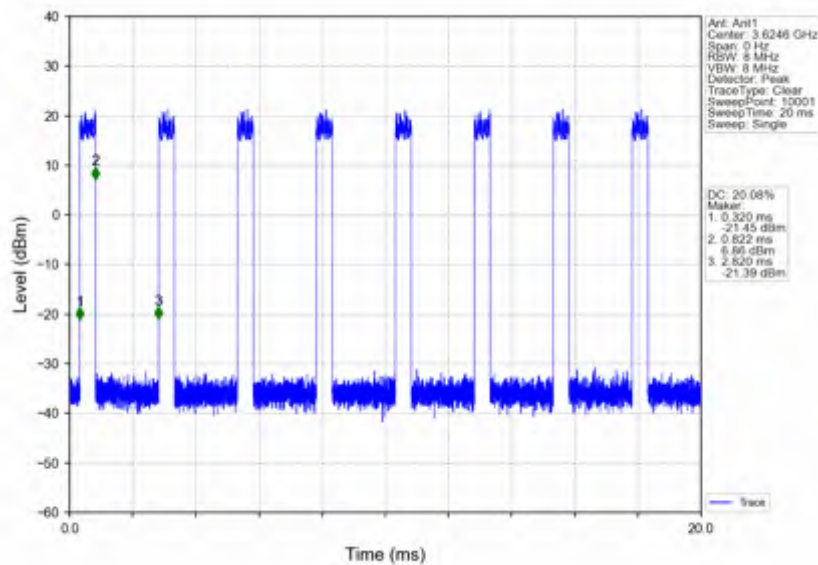
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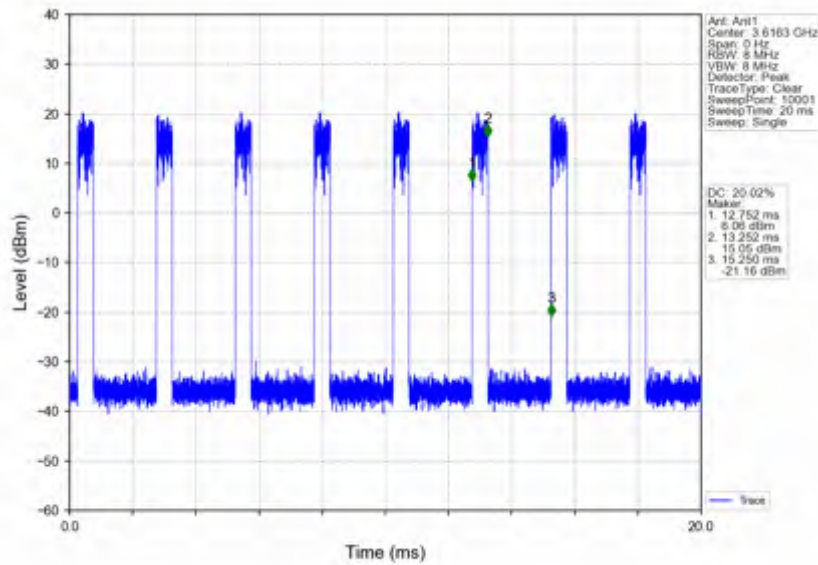


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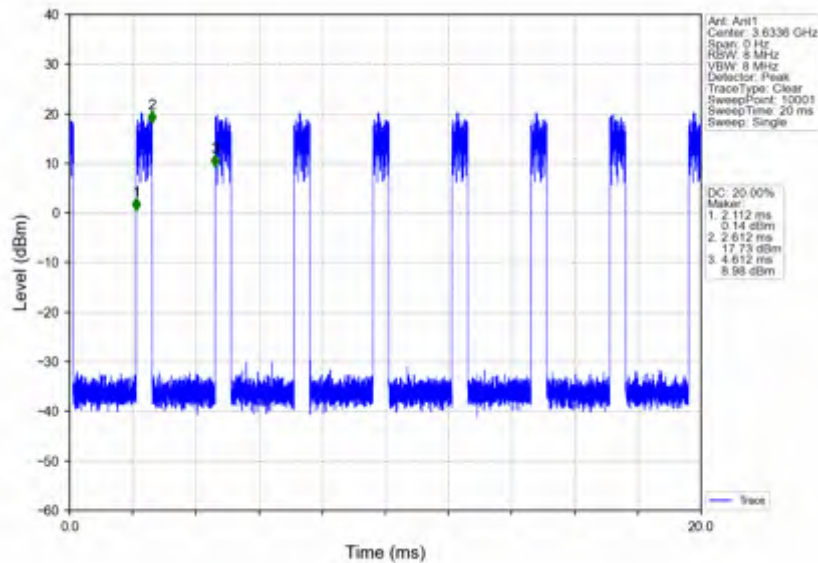
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n78d_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



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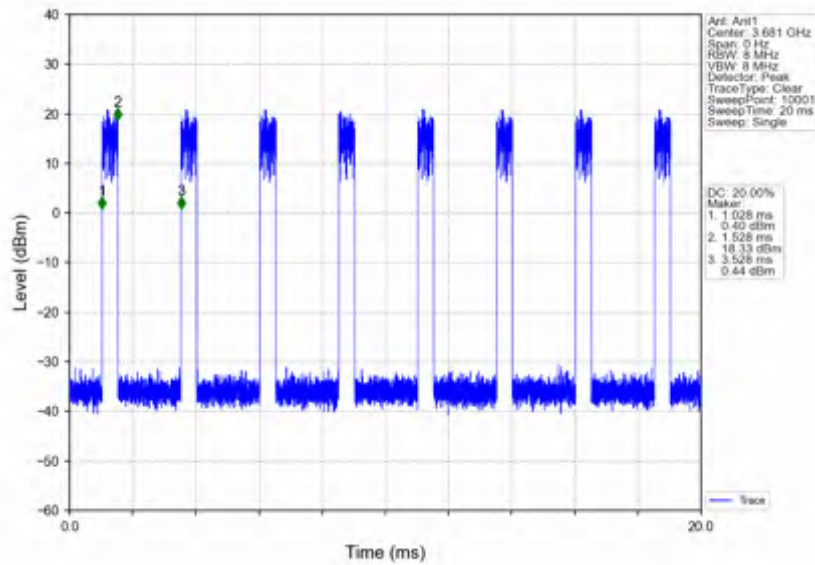
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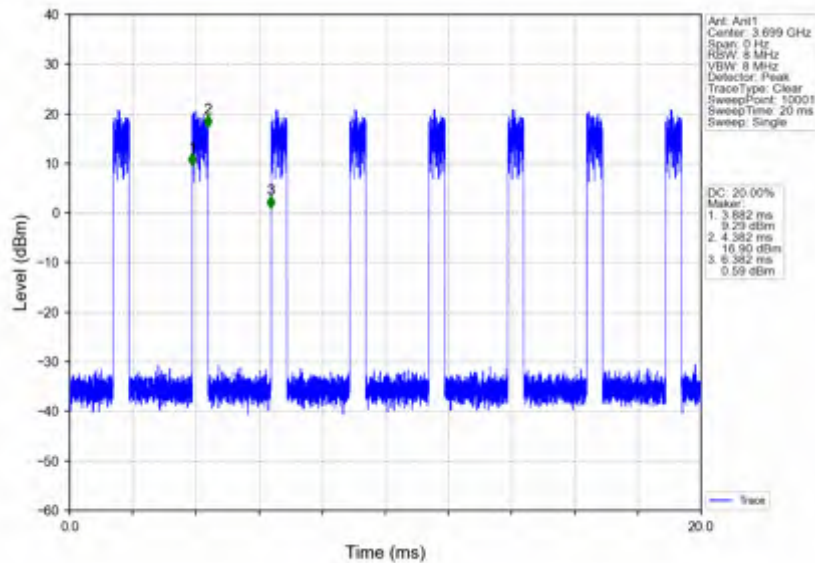
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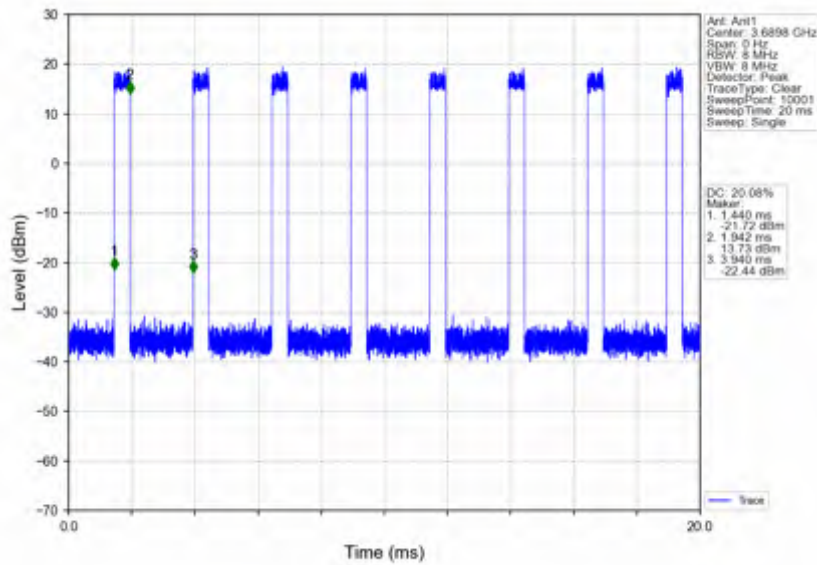
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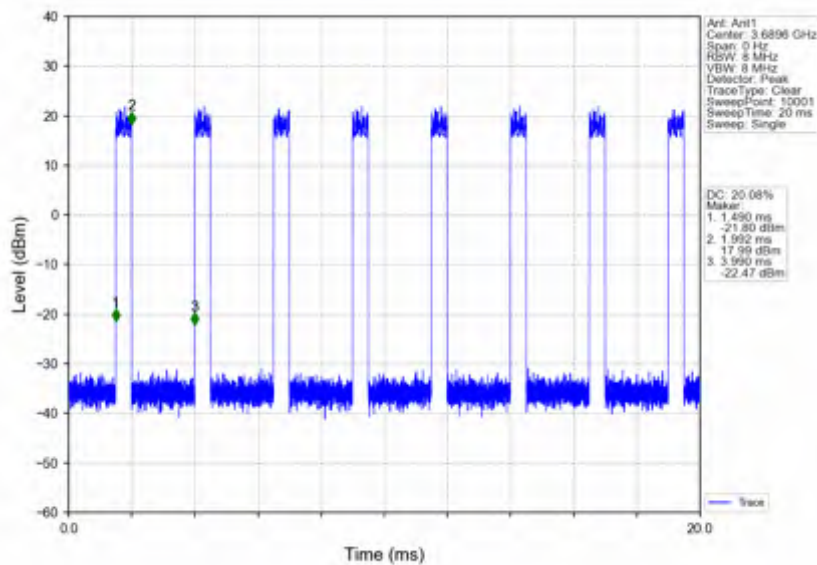
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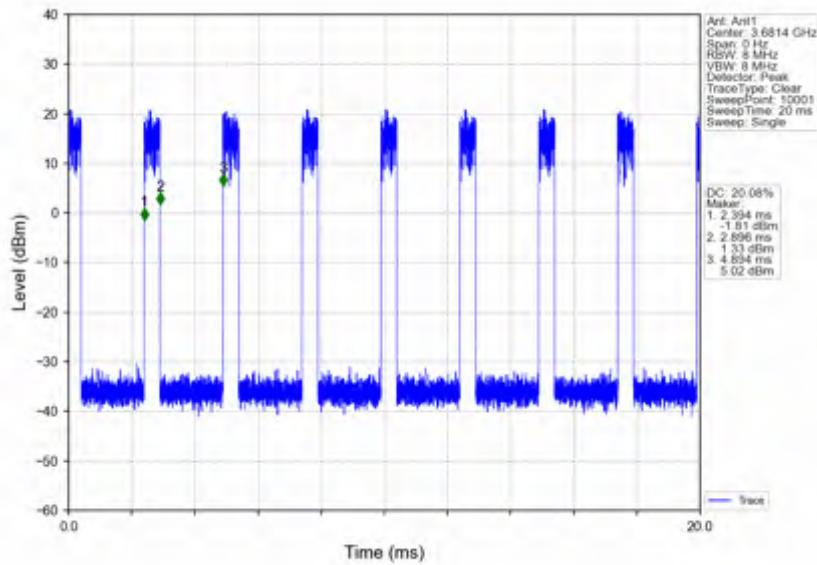
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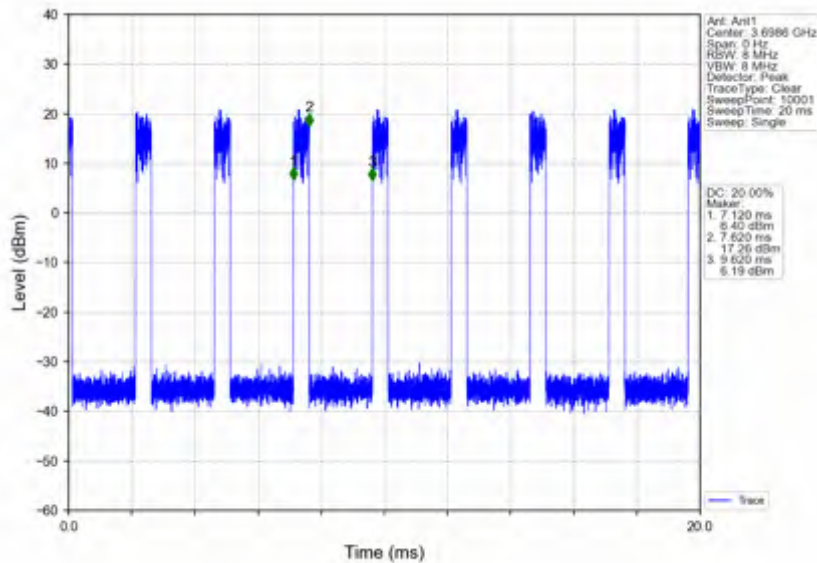
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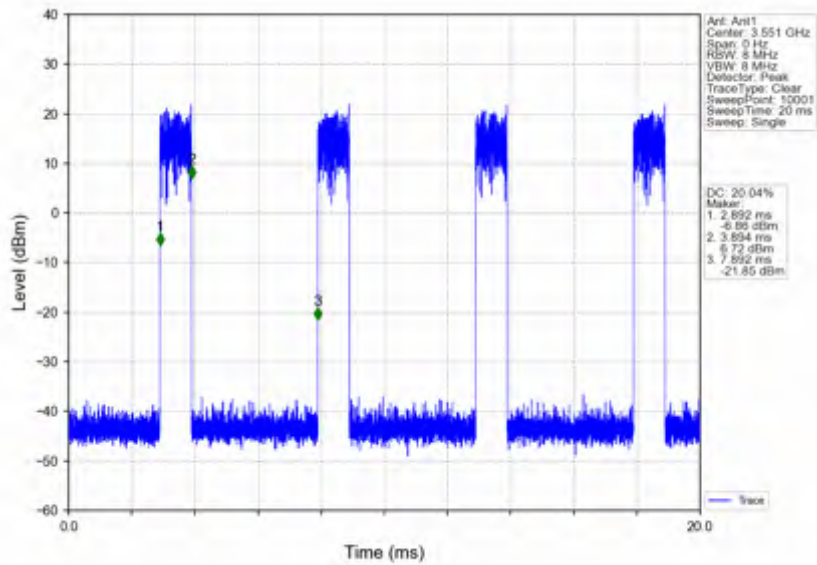
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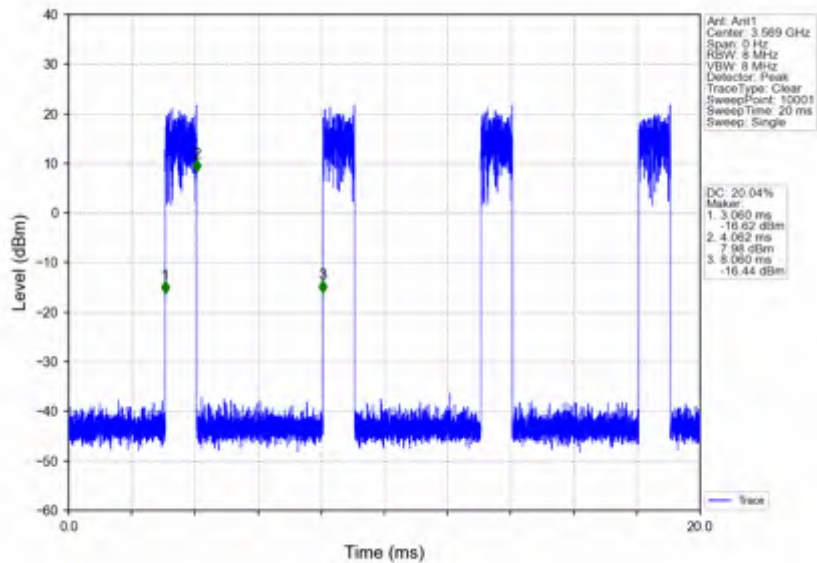
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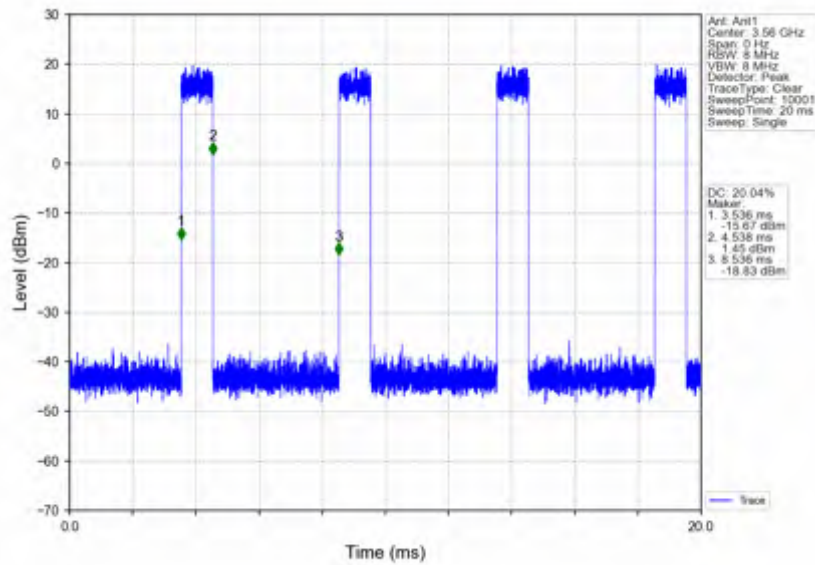


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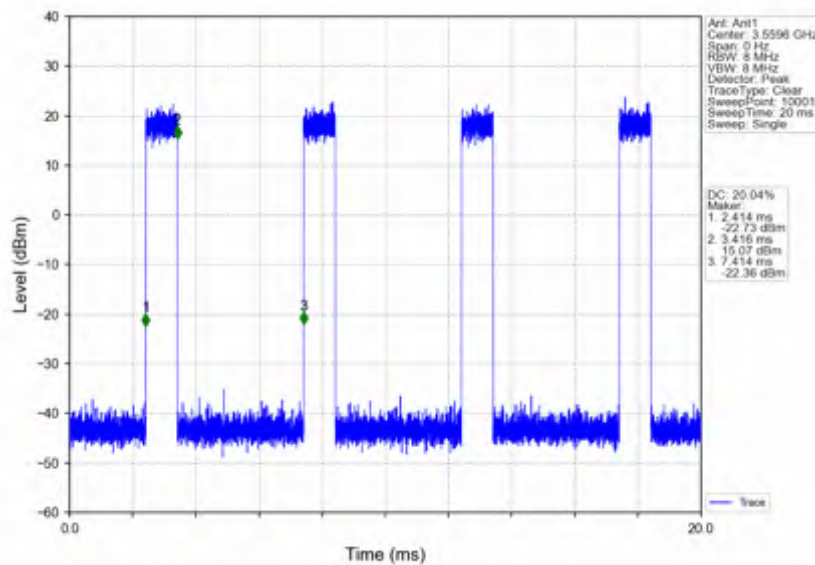
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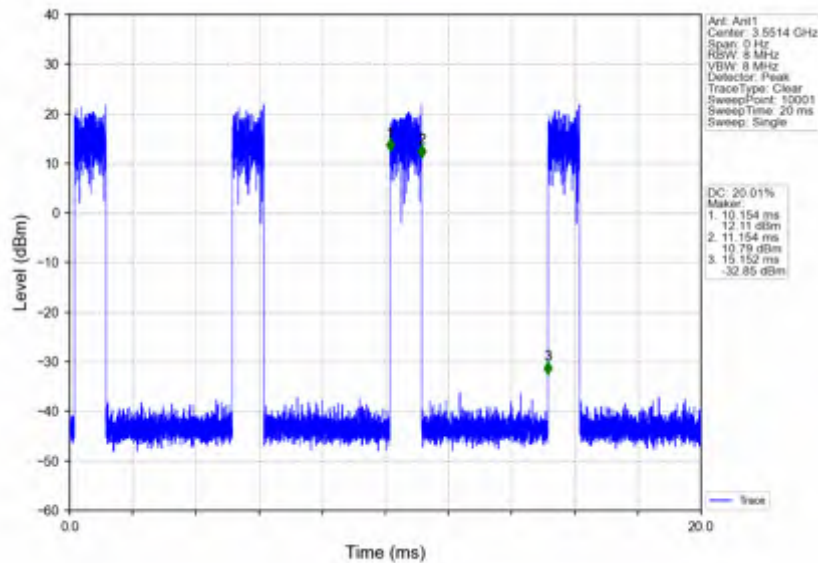


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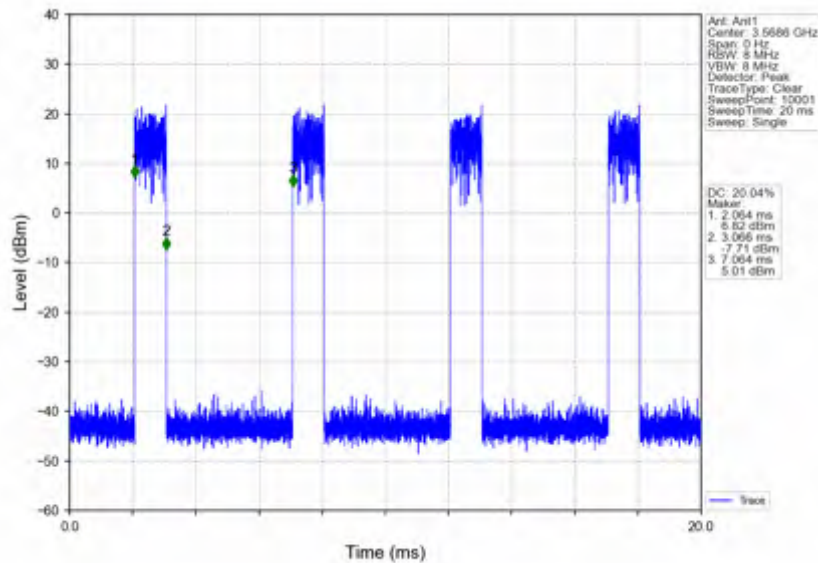
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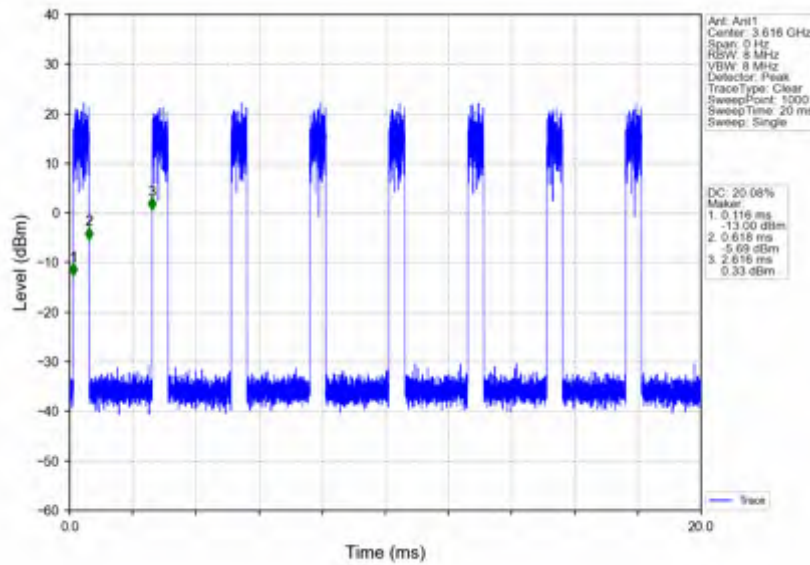
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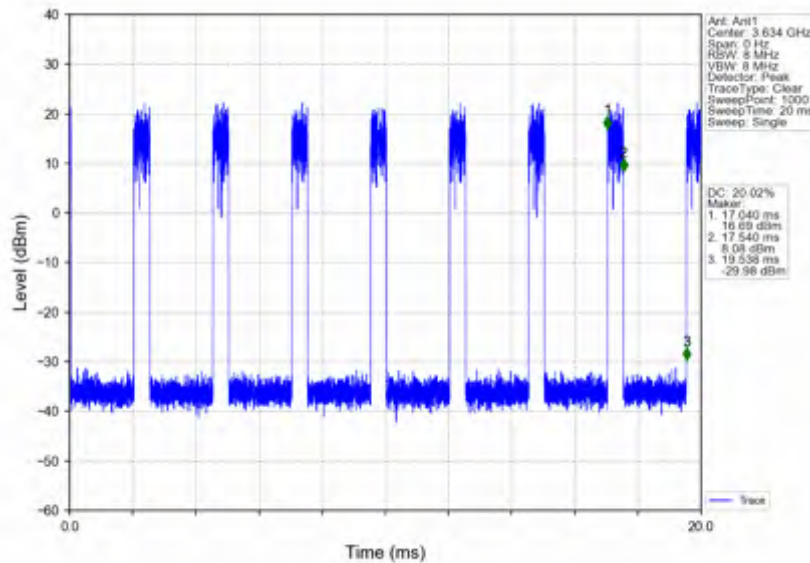
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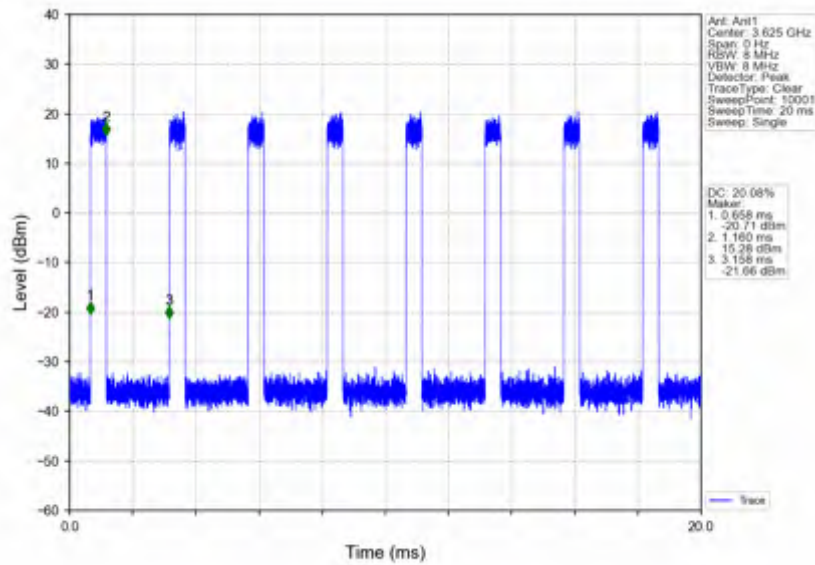
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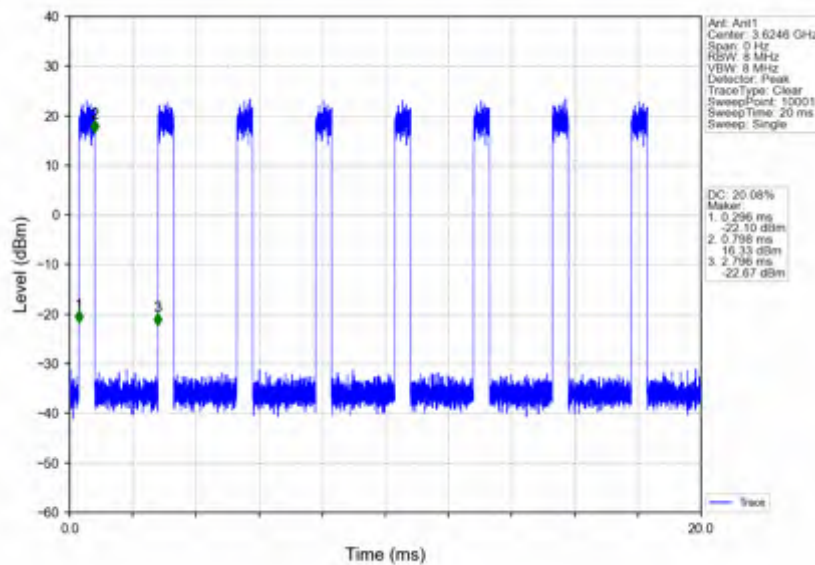
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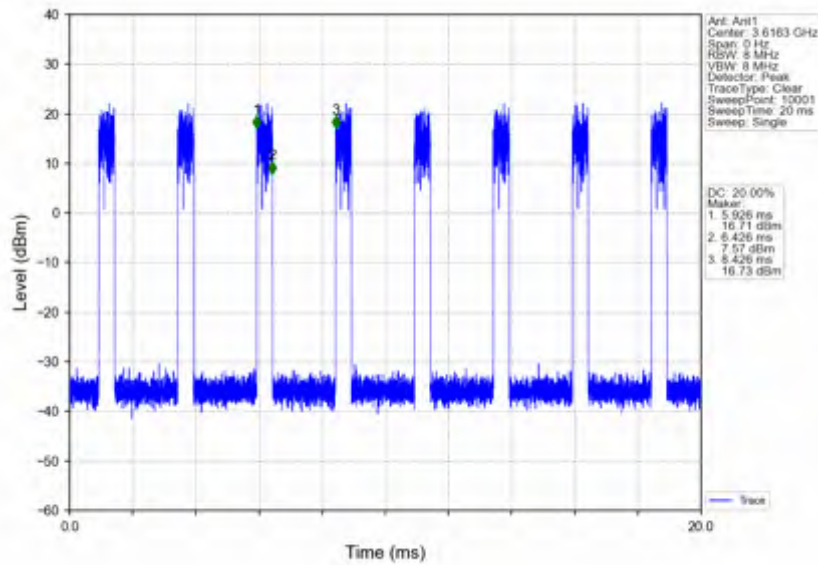
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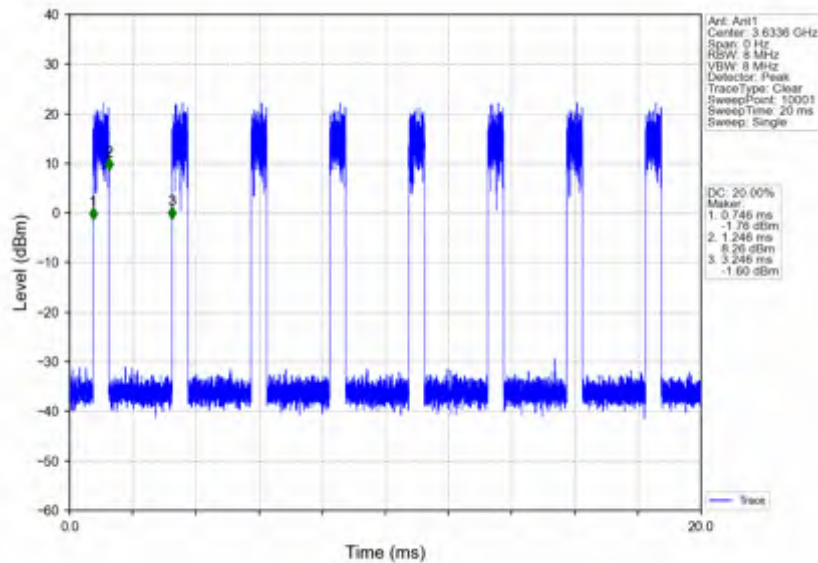
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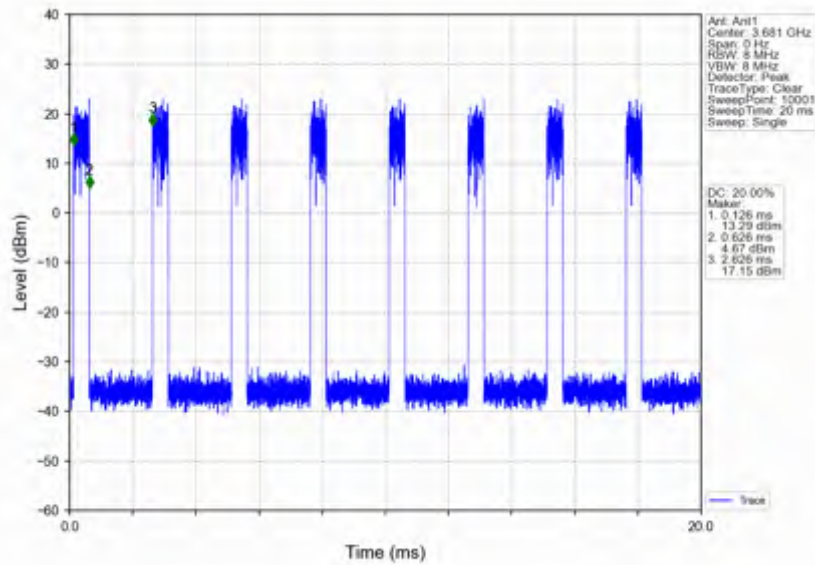
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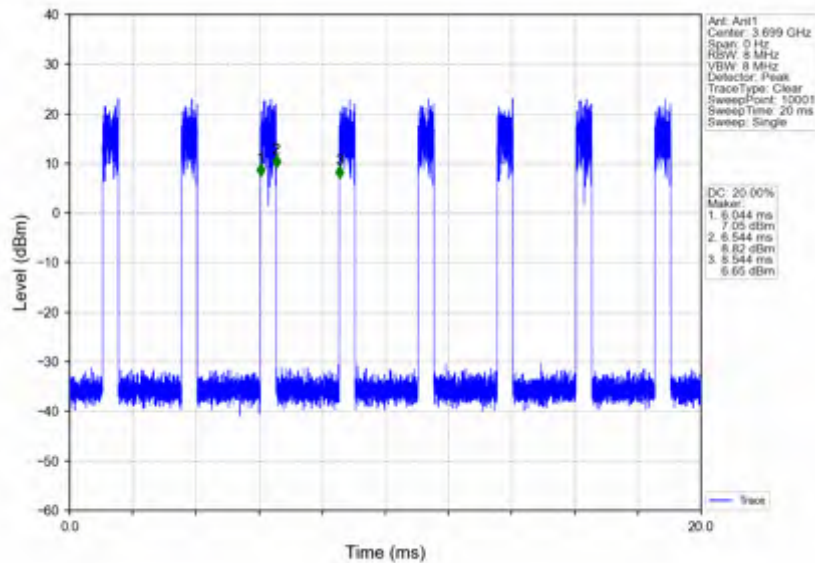
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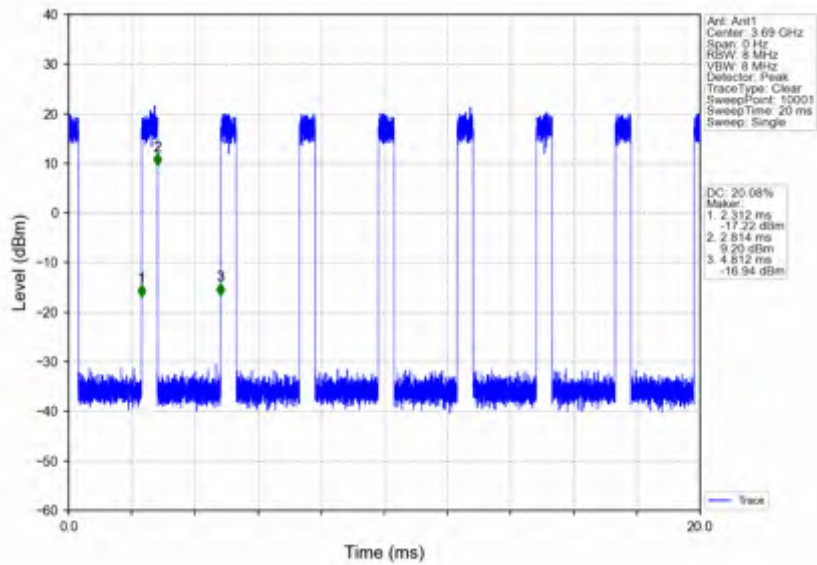
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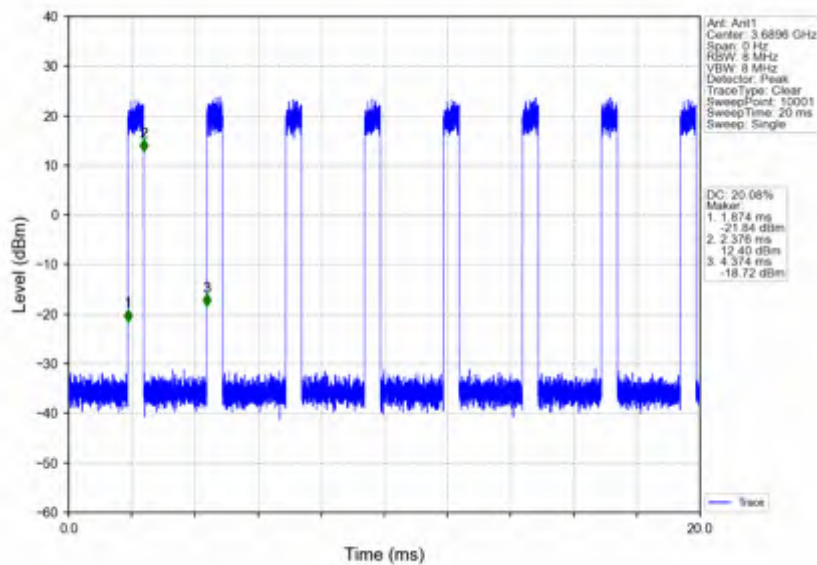
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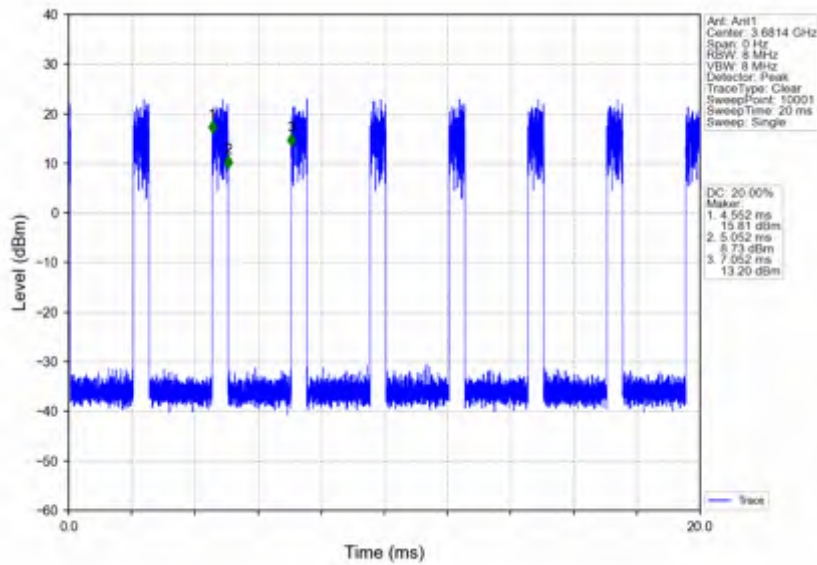
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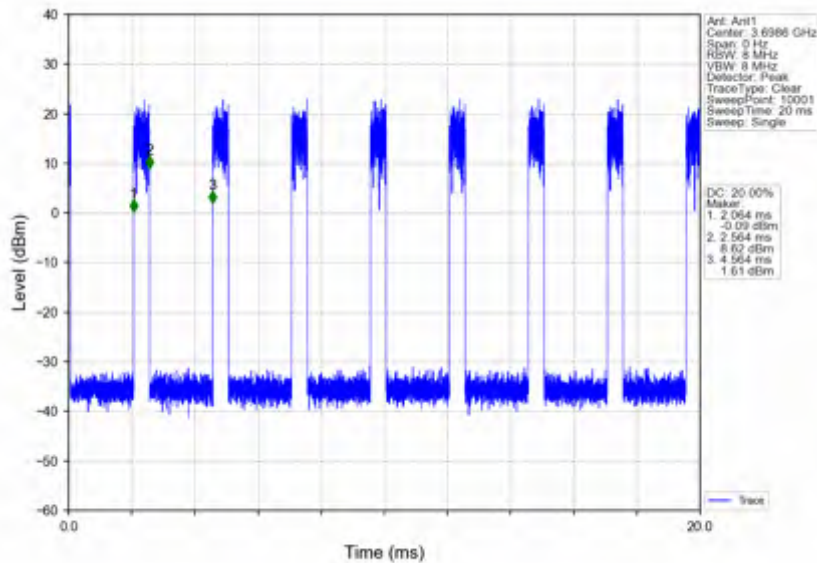
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Inner_1RB_Left



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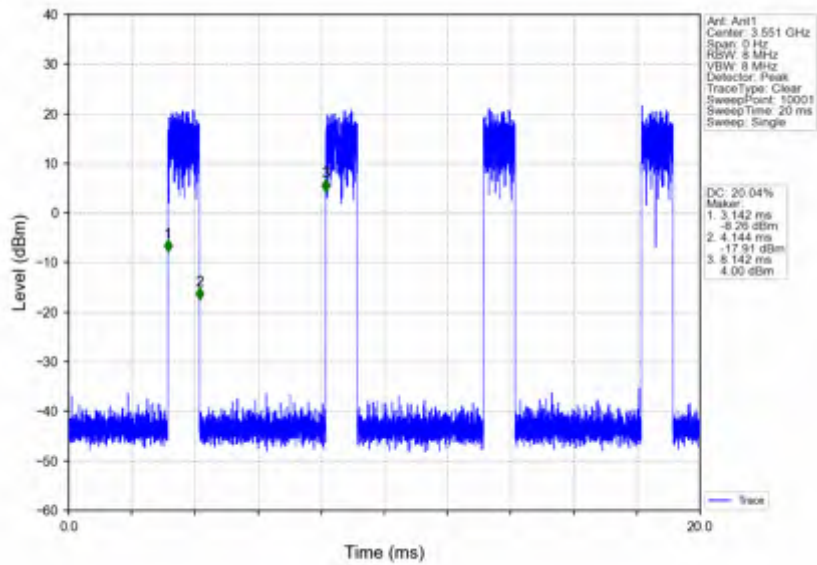


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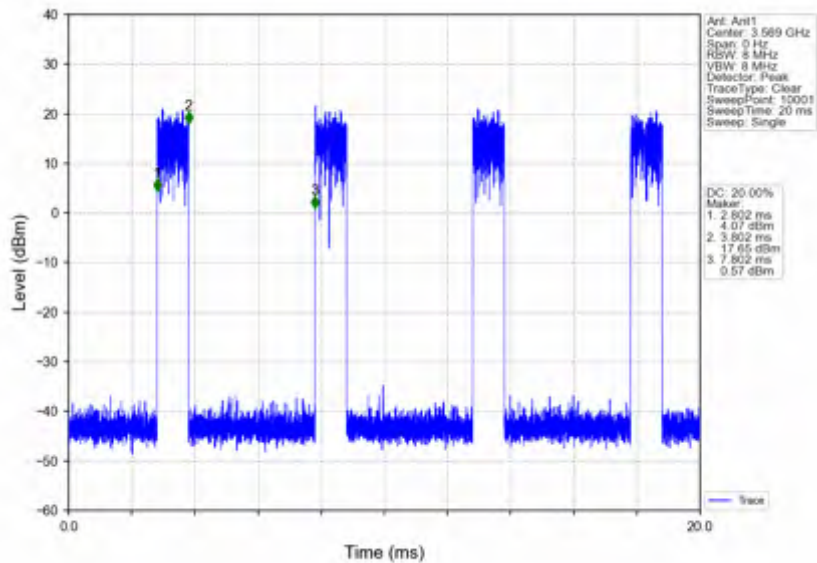
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3560.01MHz_Edge_1RB_Left



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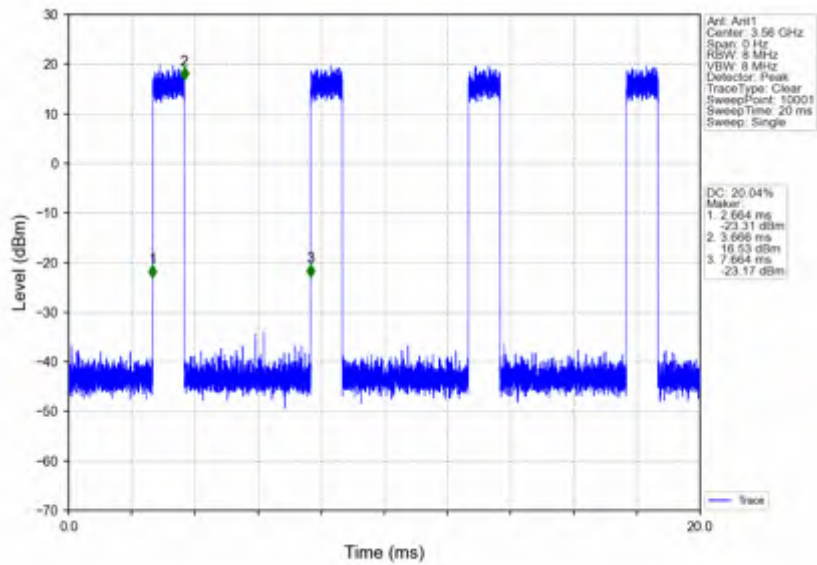


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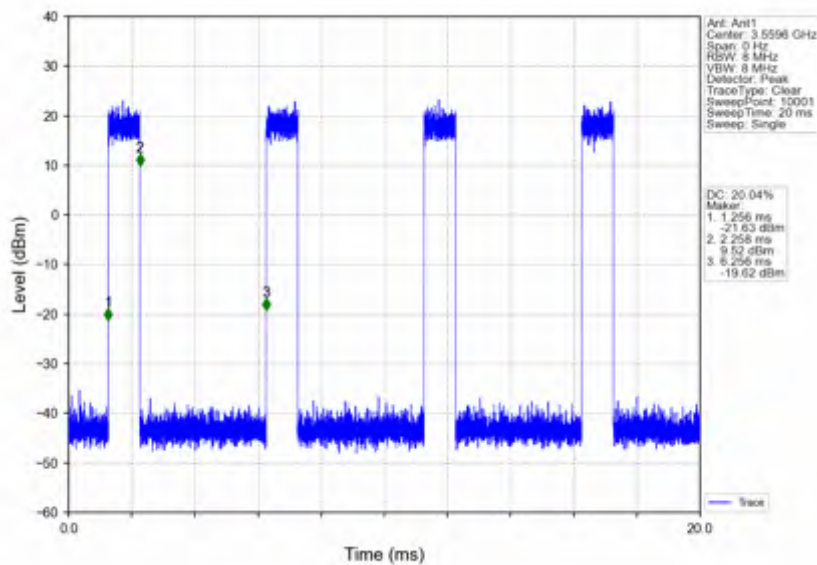
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3560.01MHz_Outer_Full



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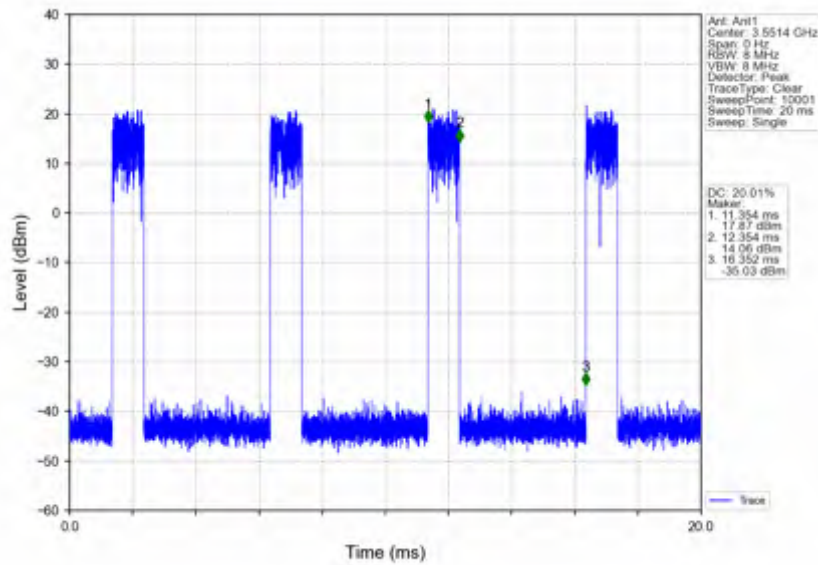


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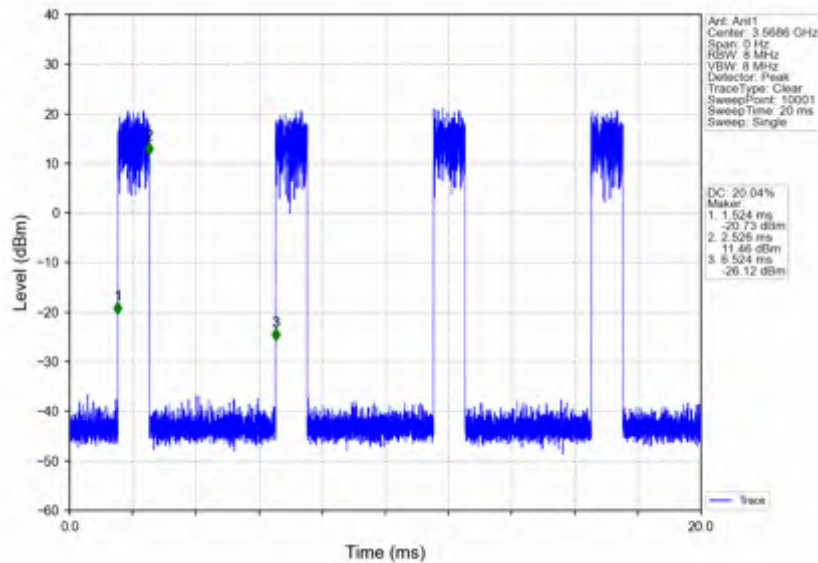
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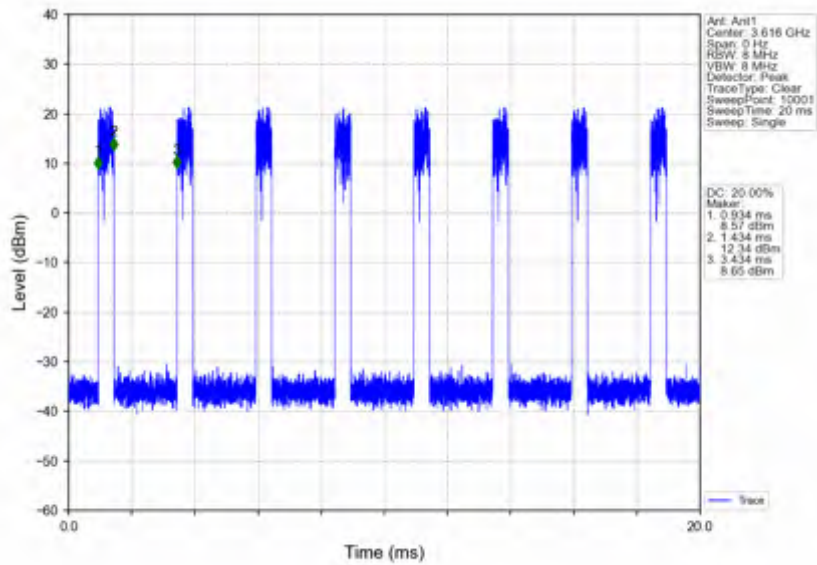
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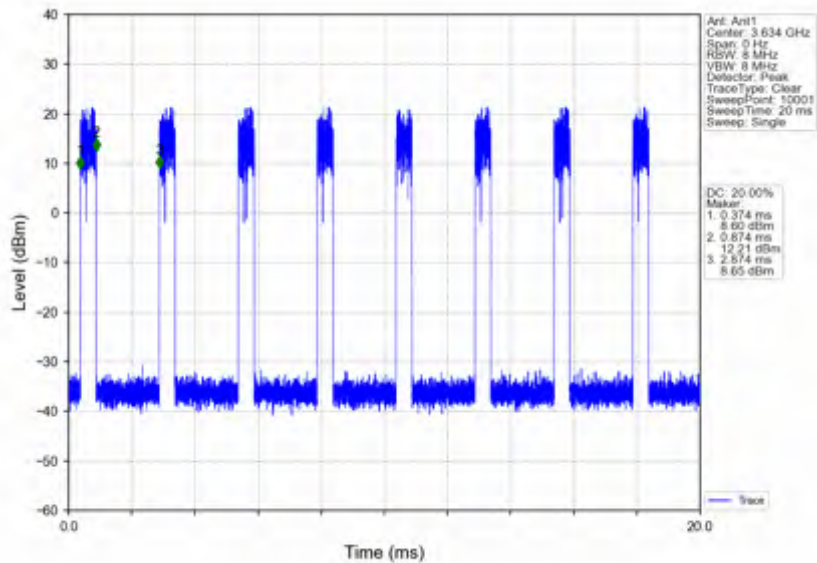
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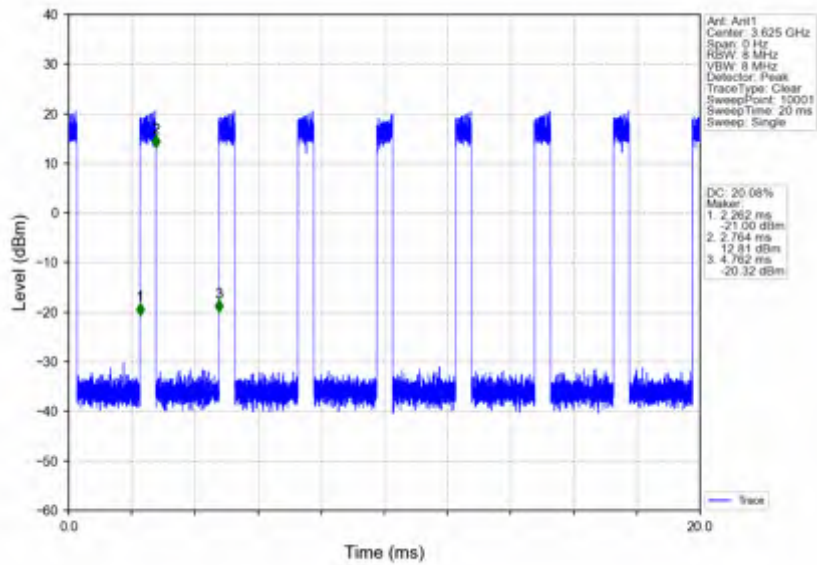


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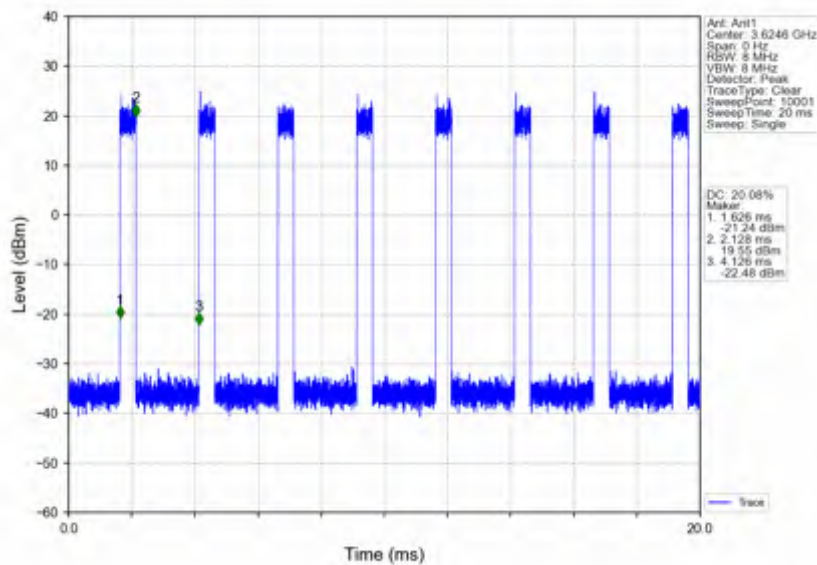
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n78d_30kHz_SISO_NTV_20MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



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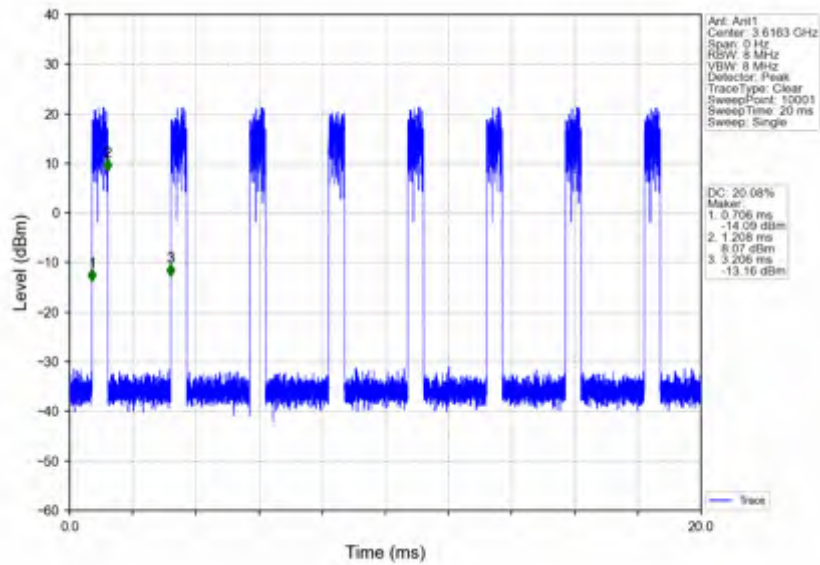


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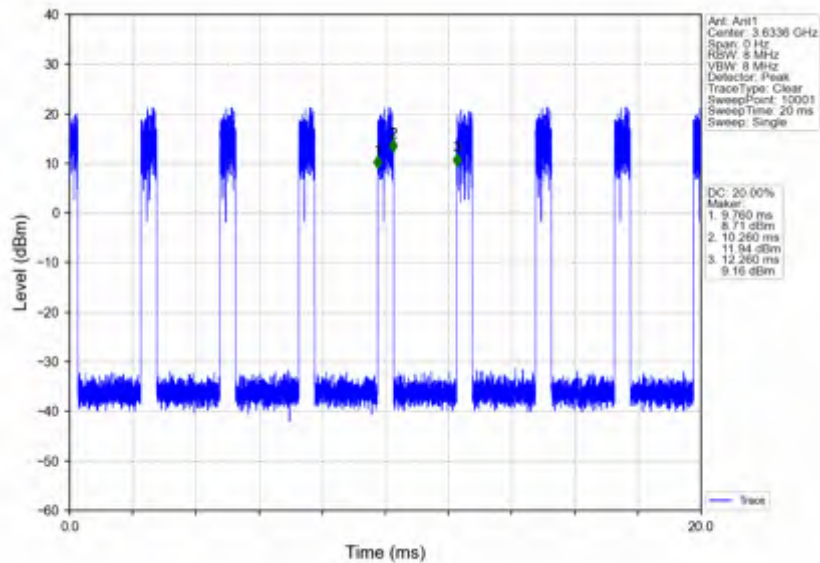
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3624.99MHz_Inner_1RB_Left



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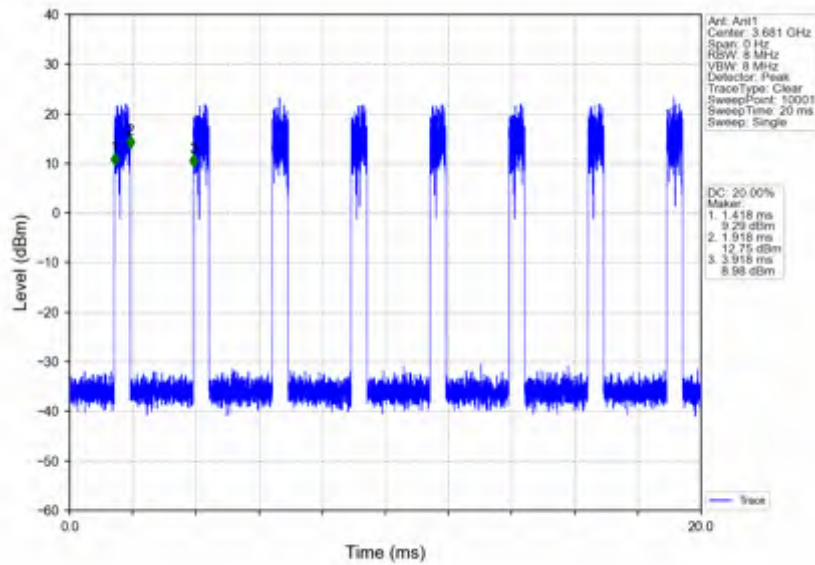


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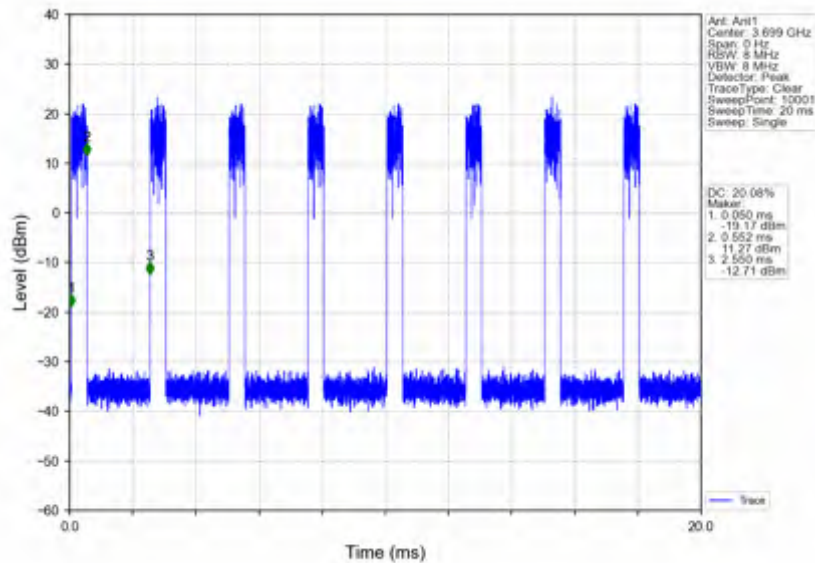
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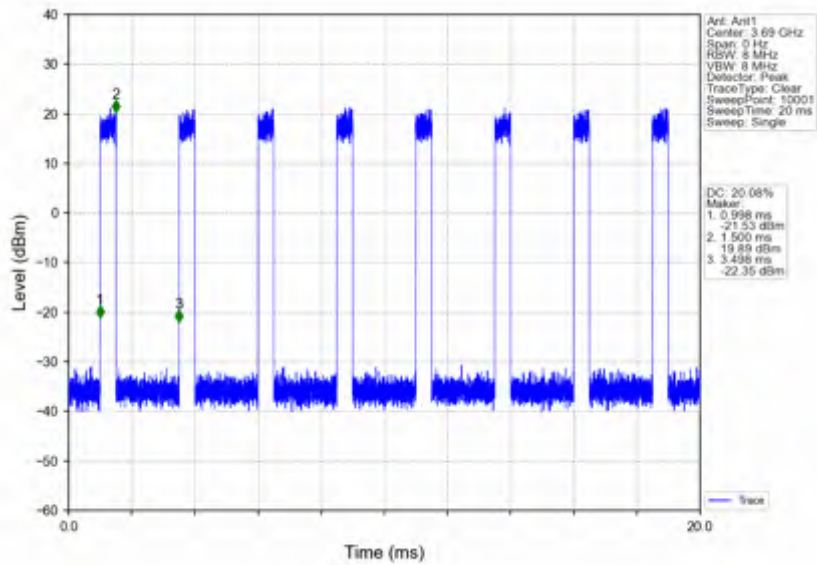


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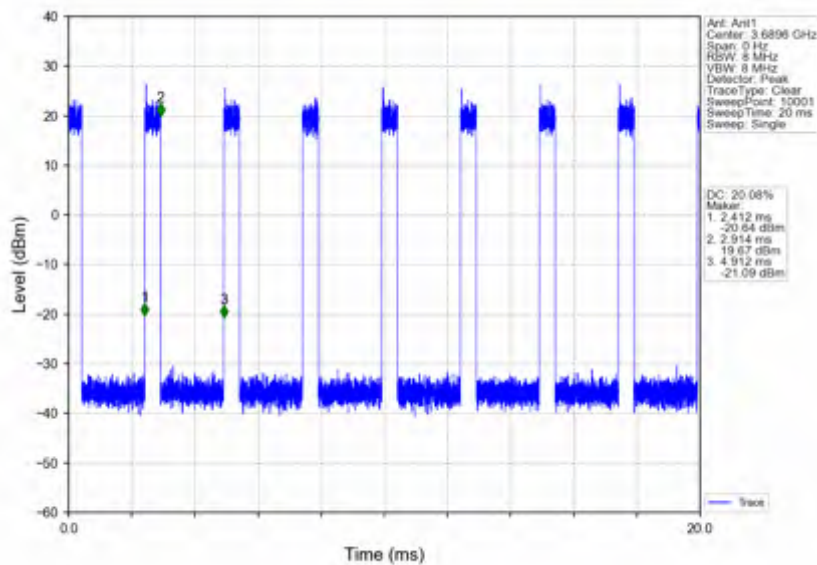
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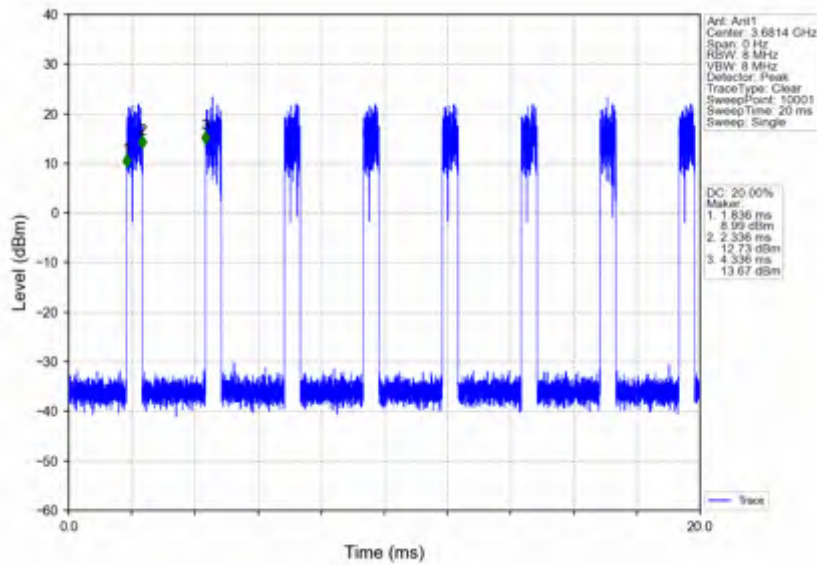


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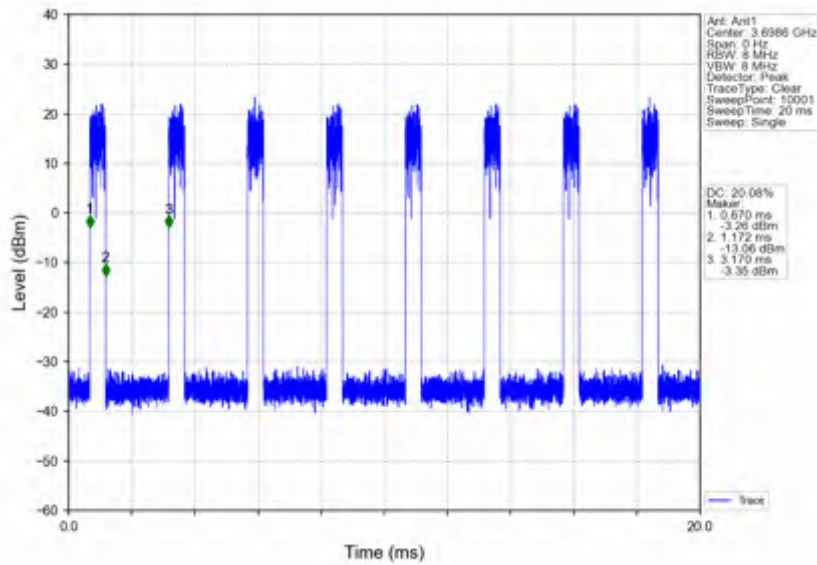
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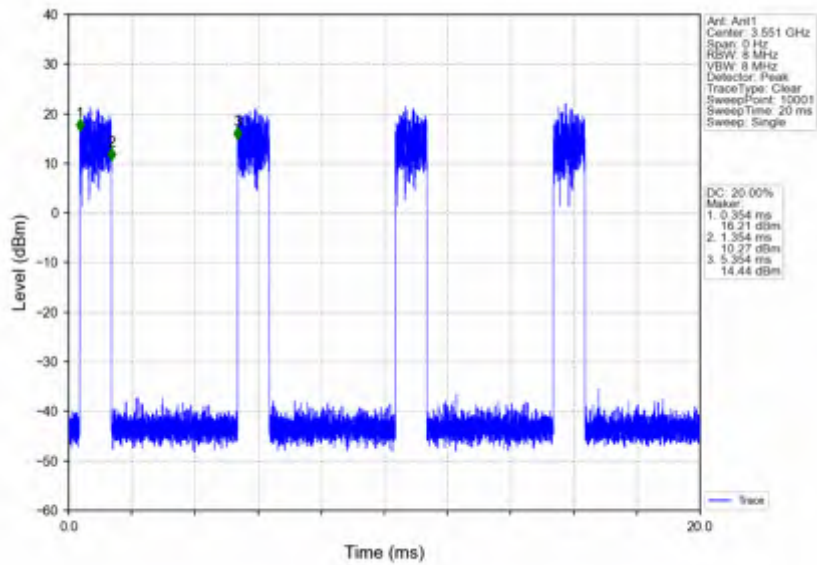


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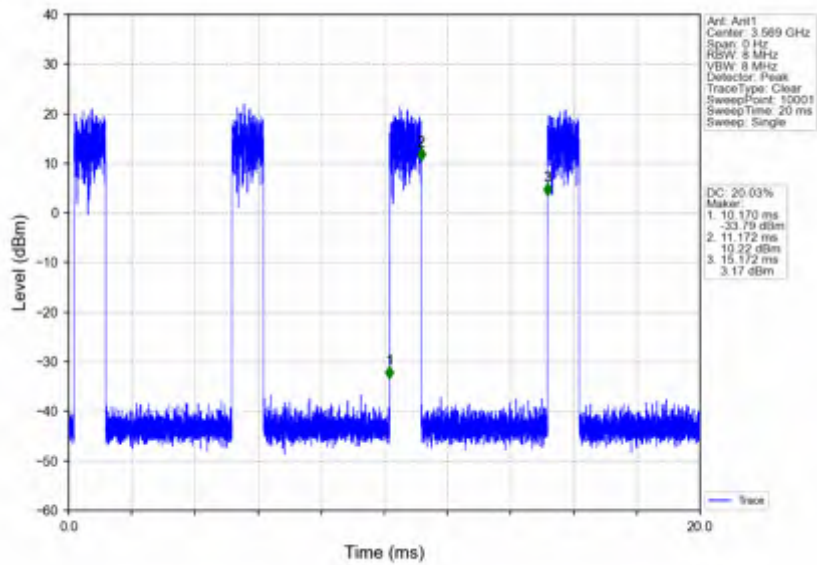
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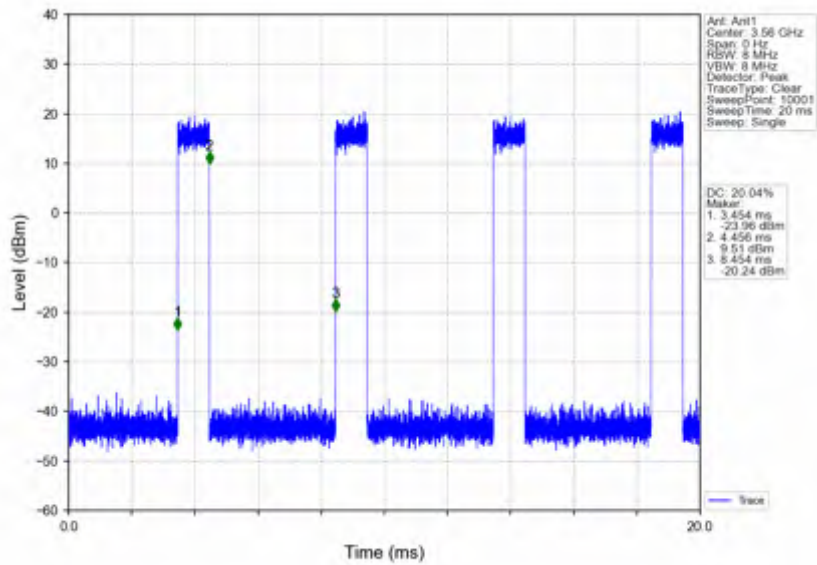


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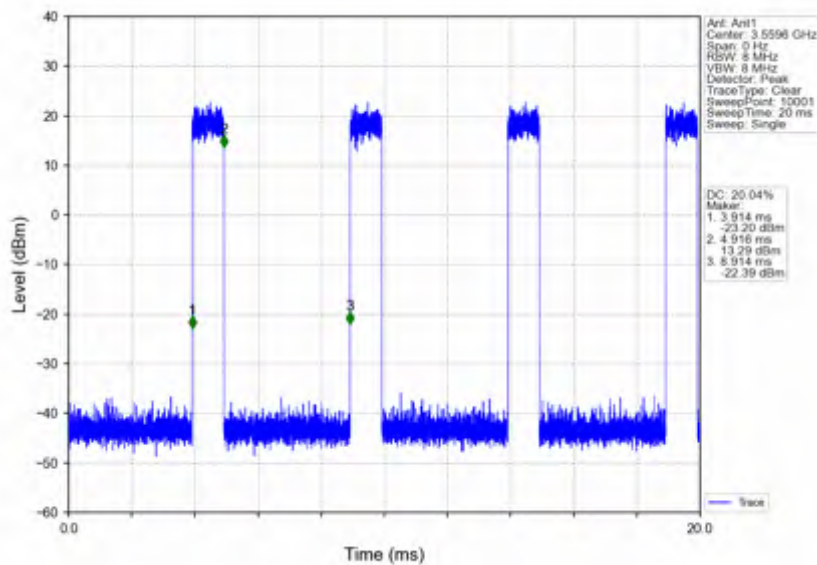
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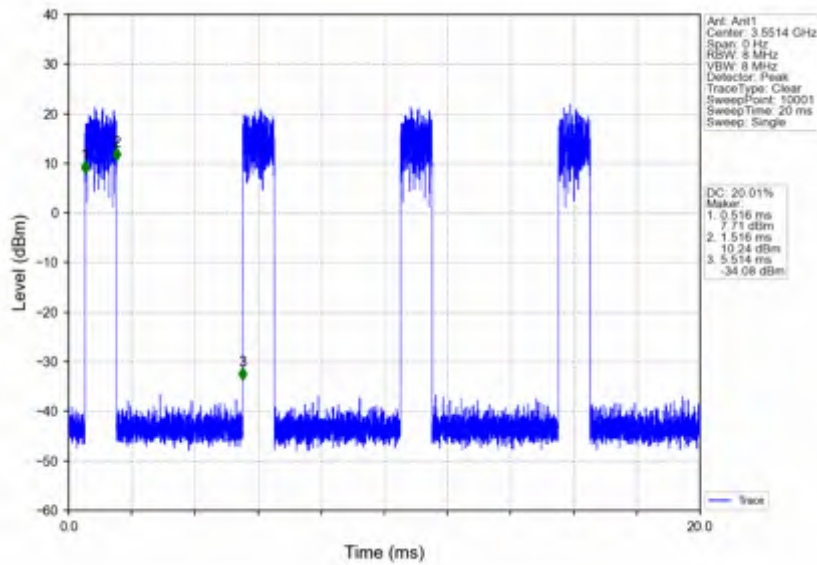
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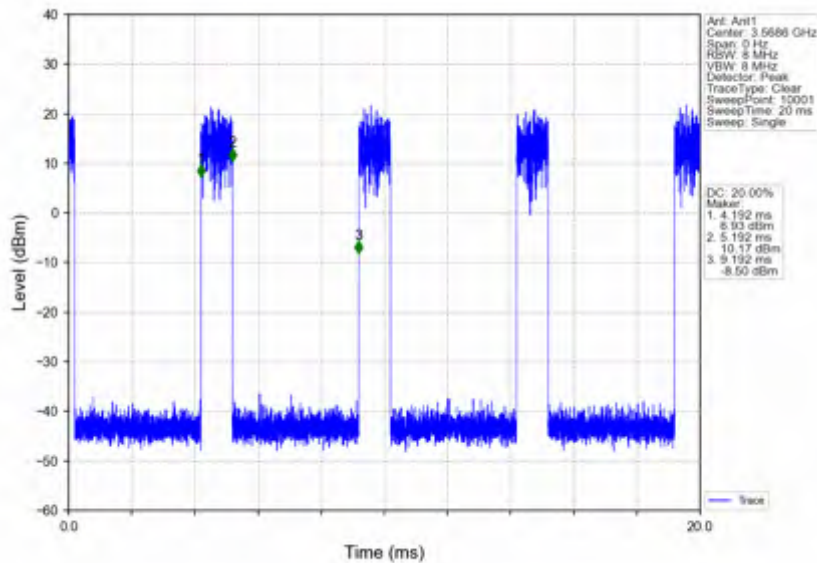
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Inner_1RB_Left



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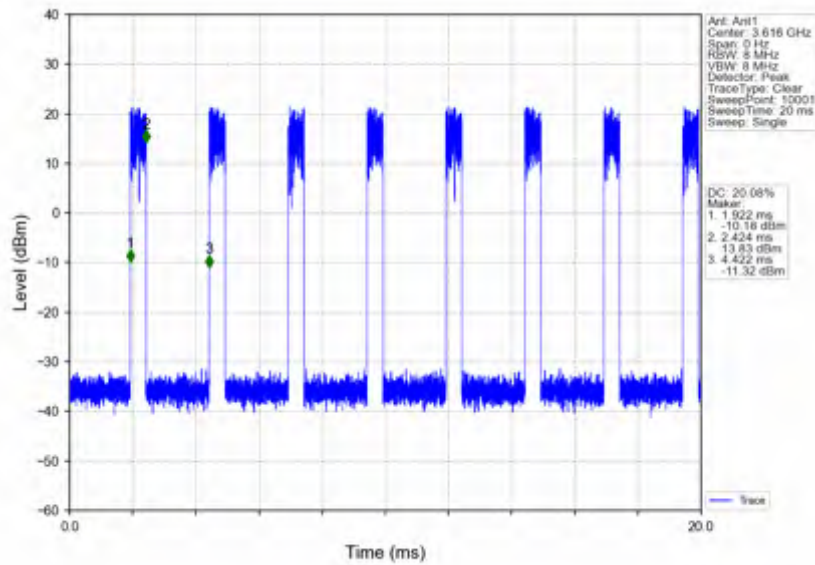


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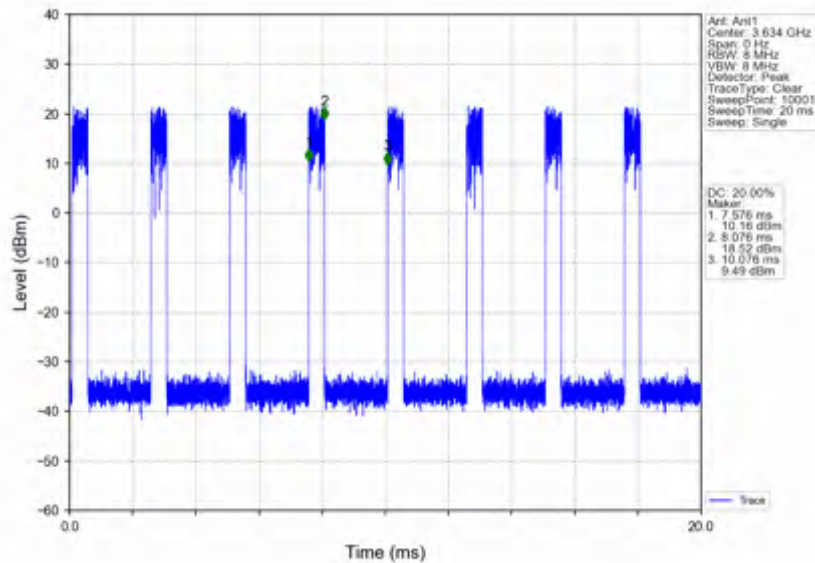
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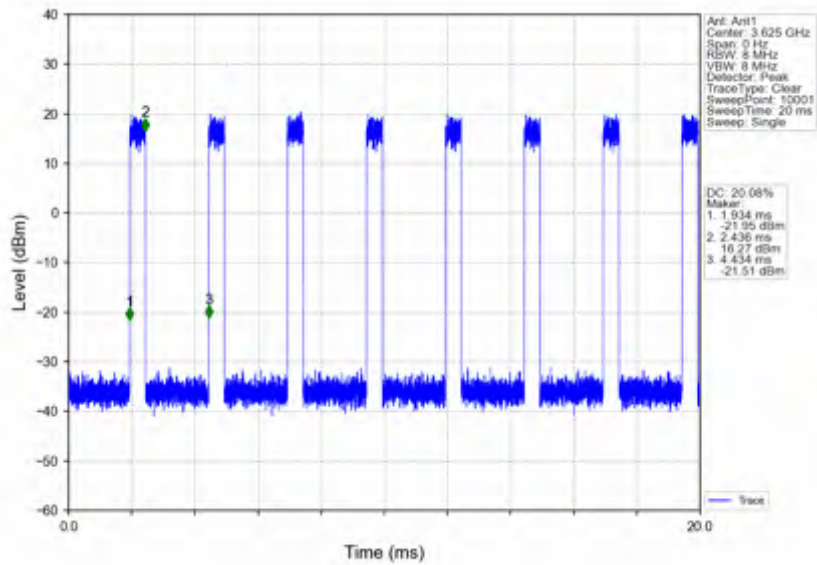
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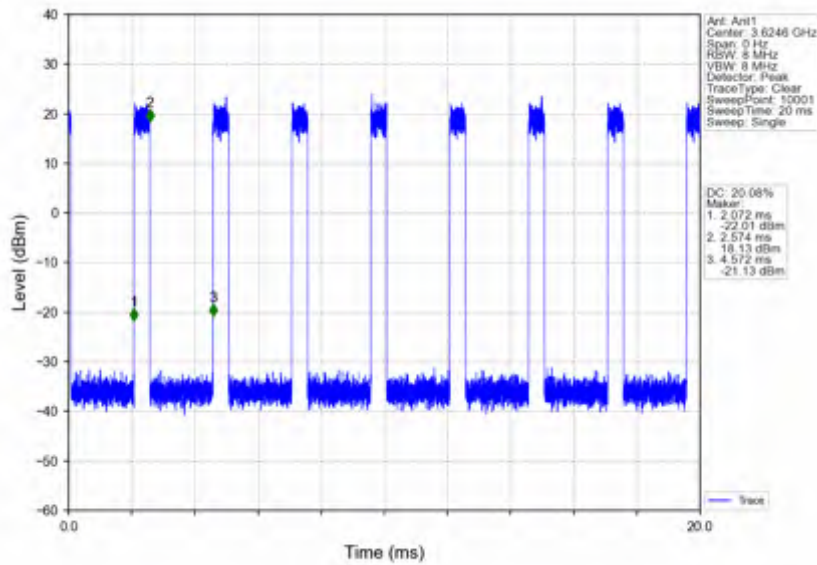
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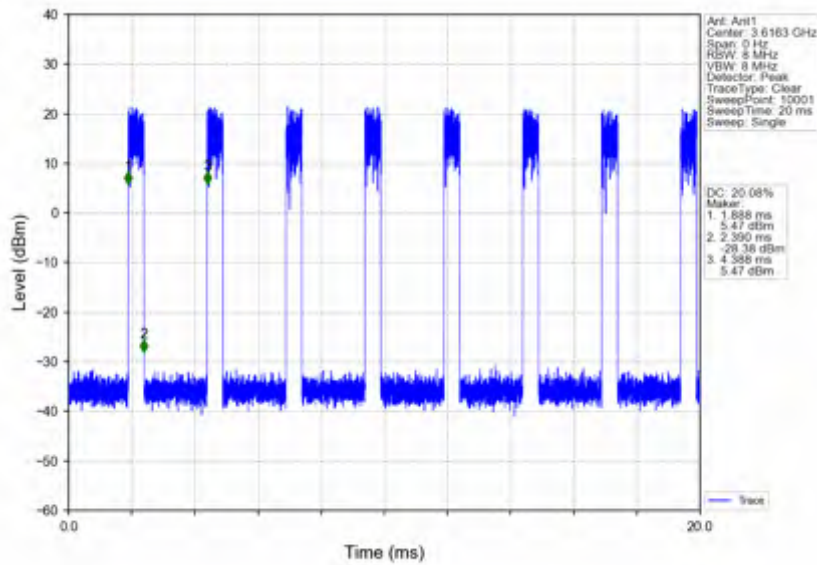
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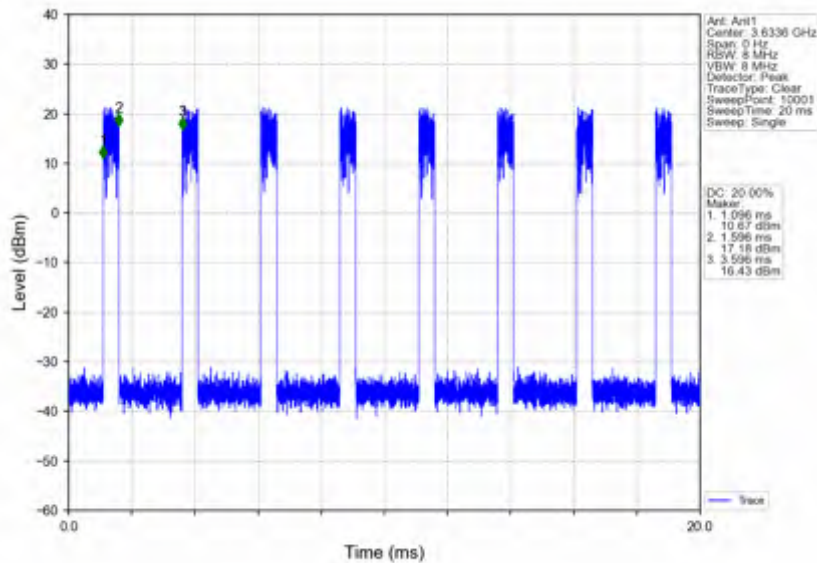
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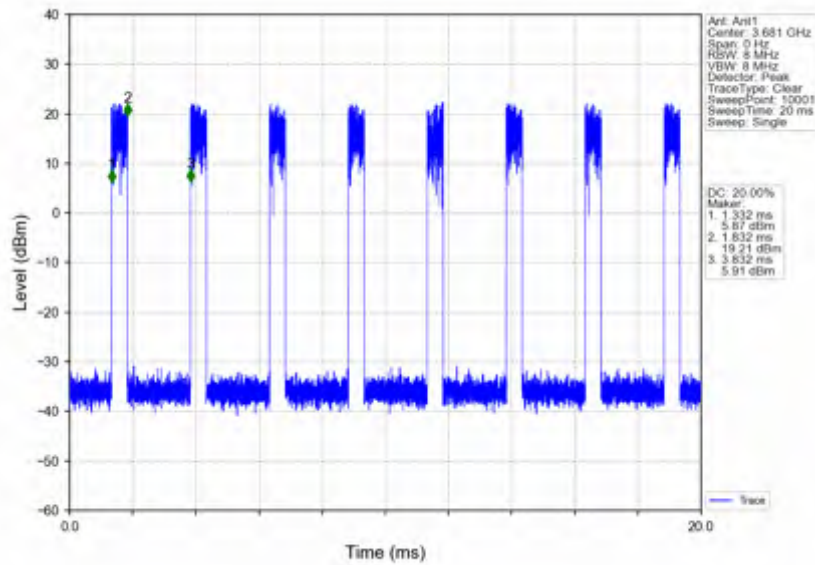
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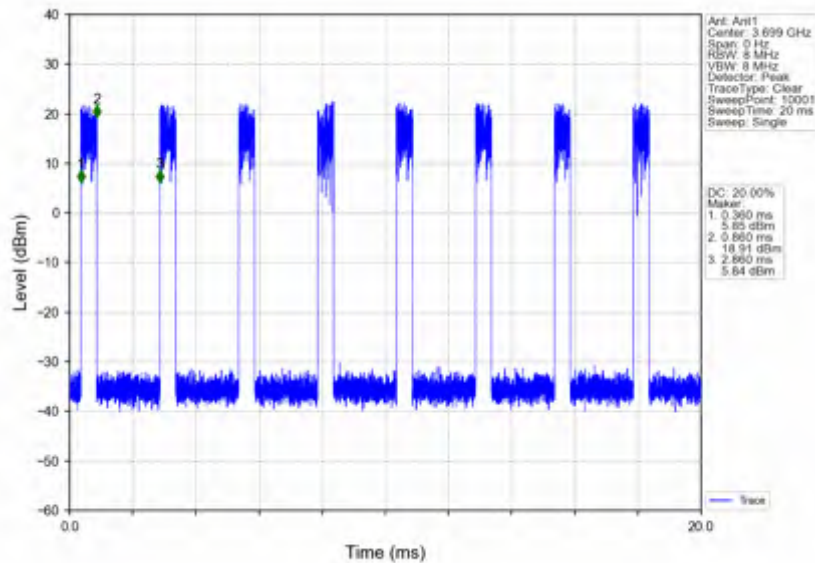
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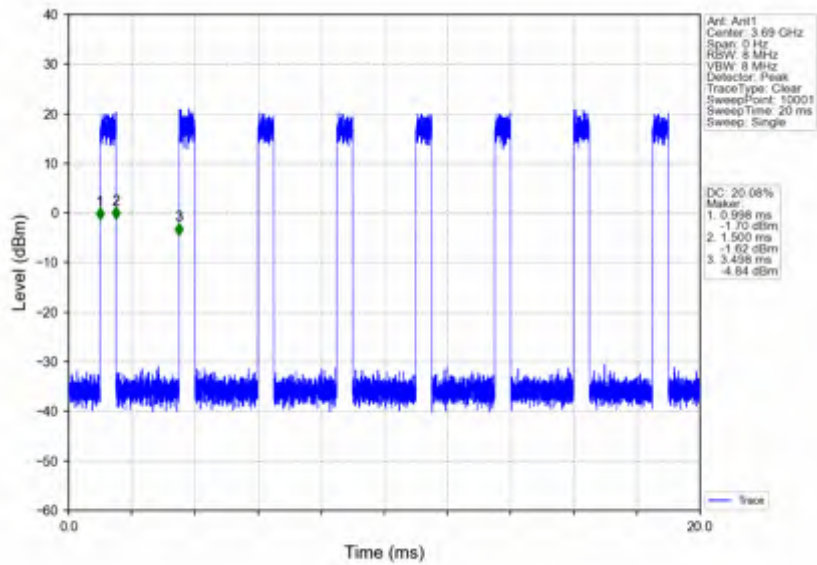


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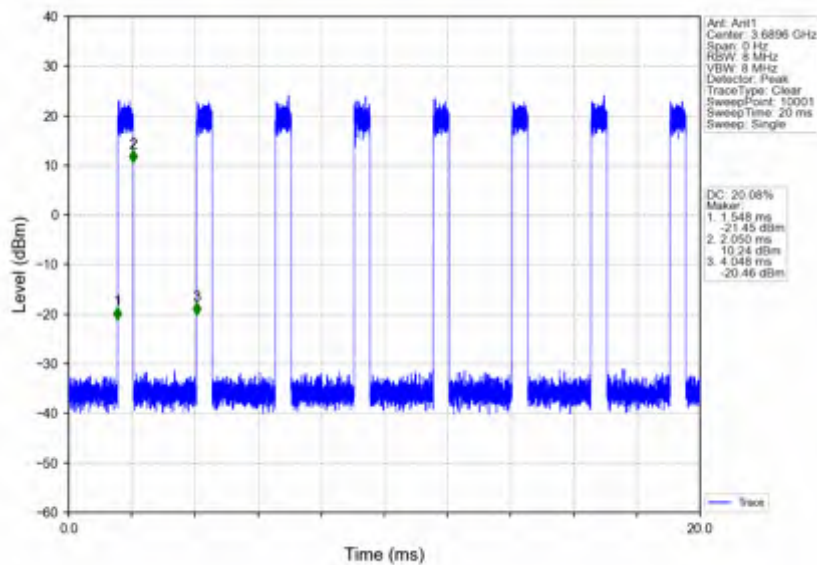
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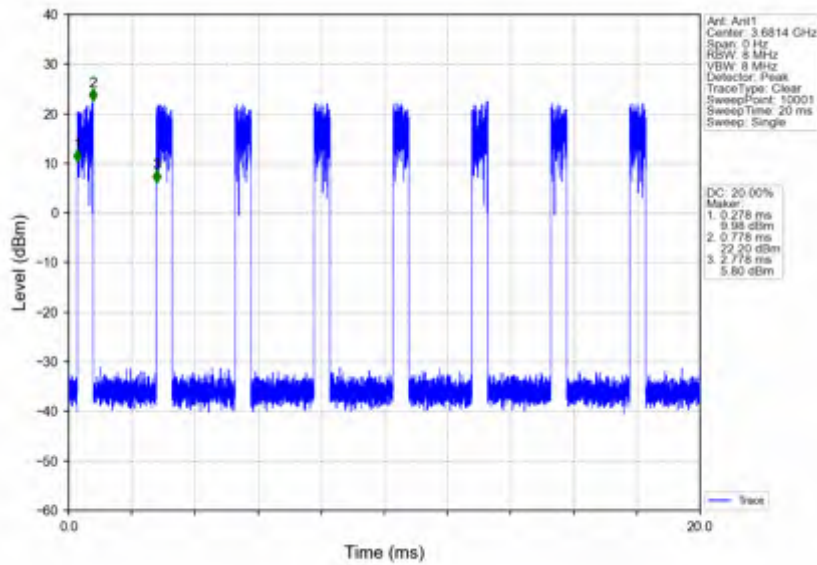


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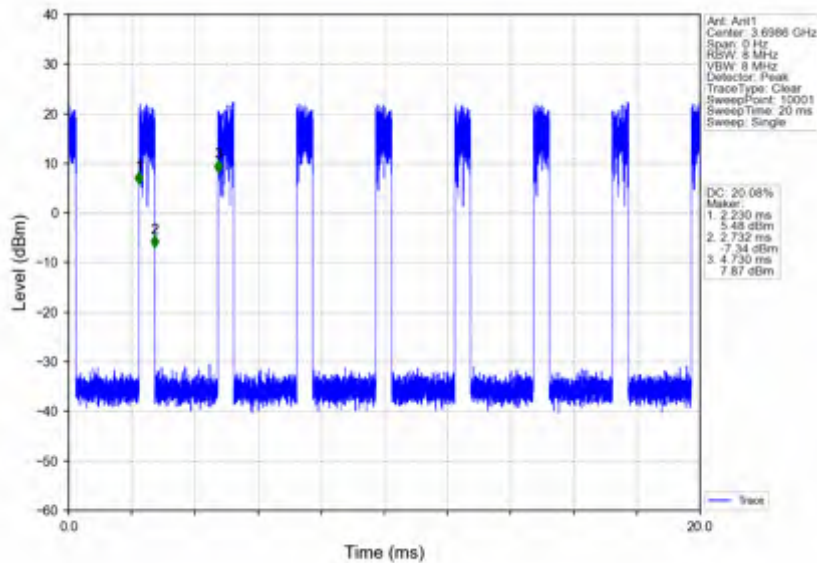
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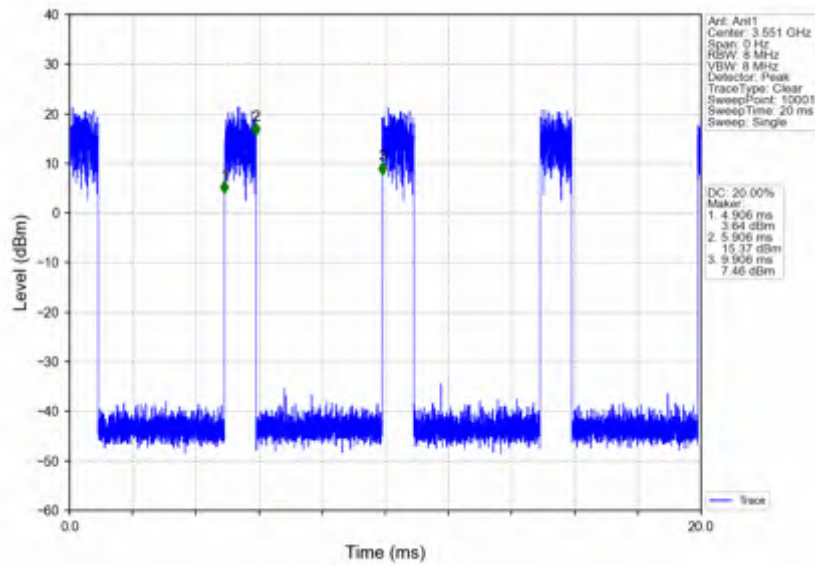


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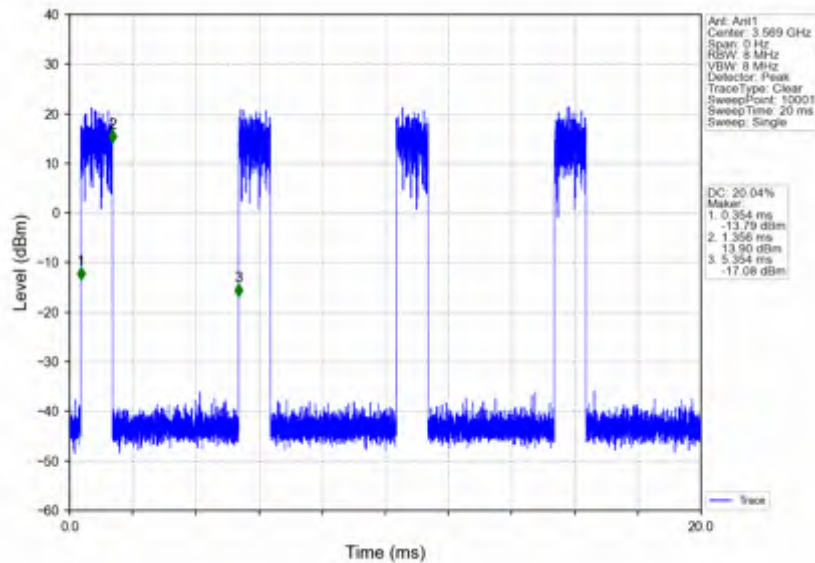
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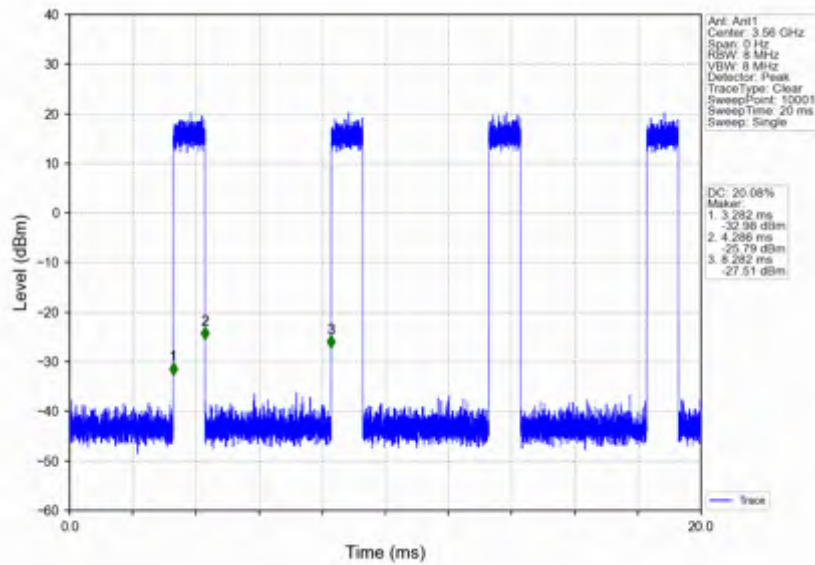
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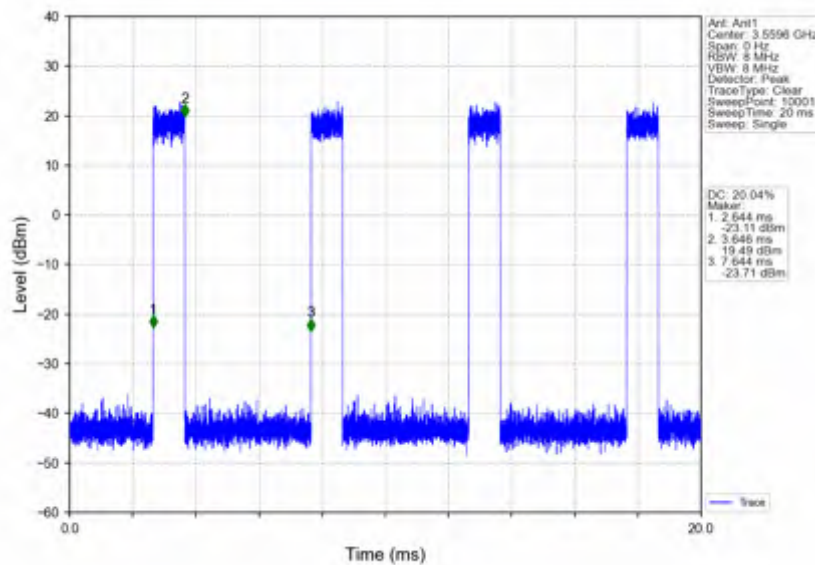
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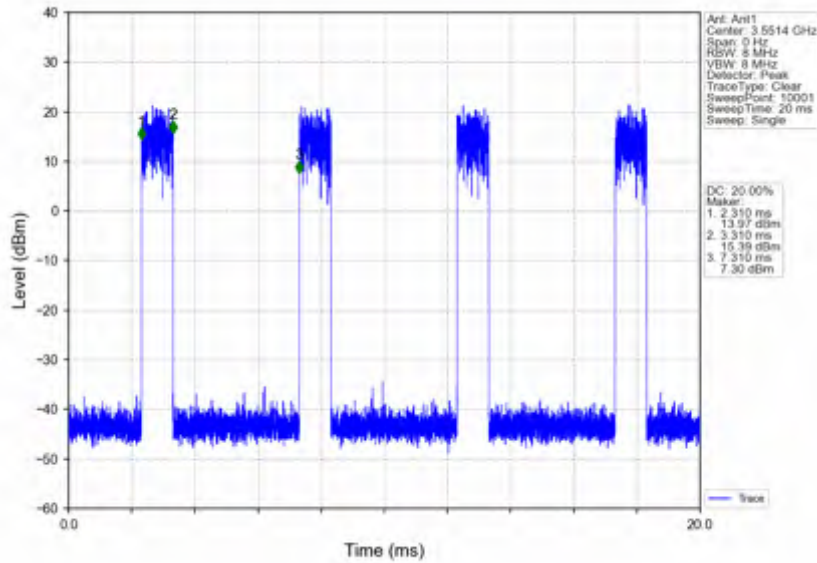
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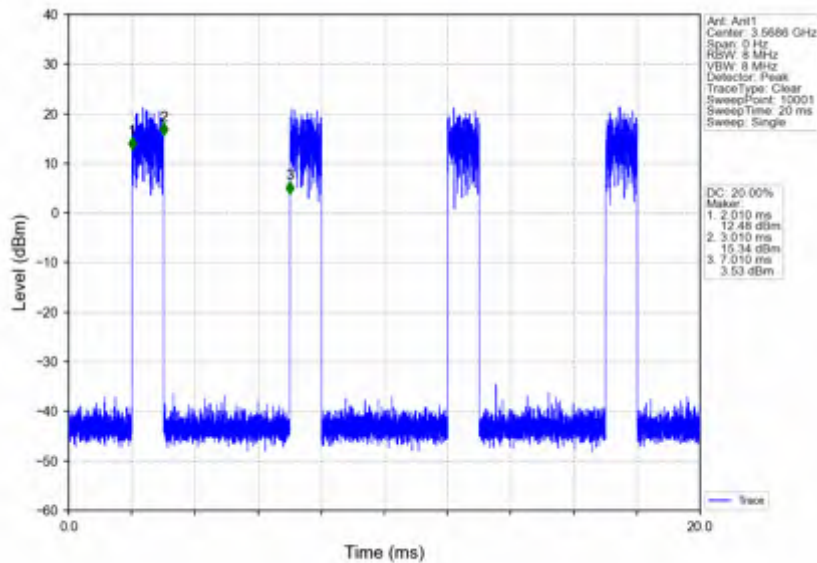
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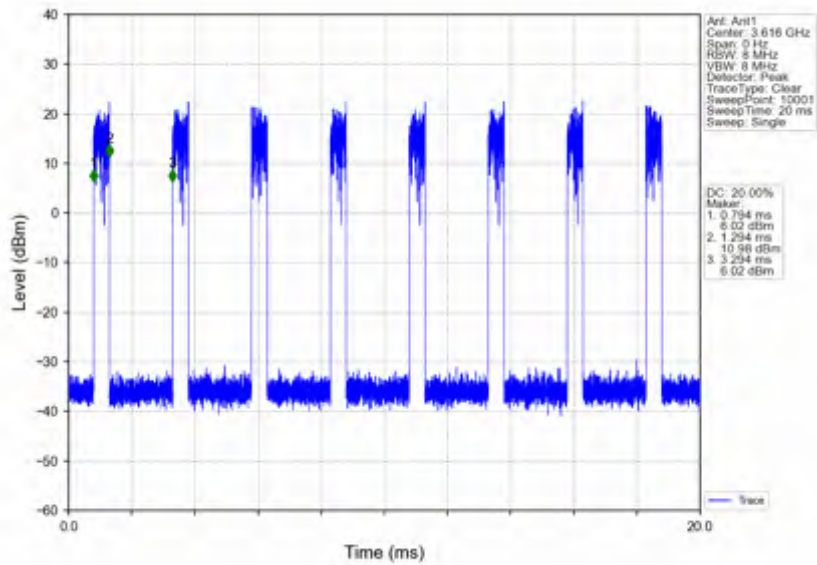
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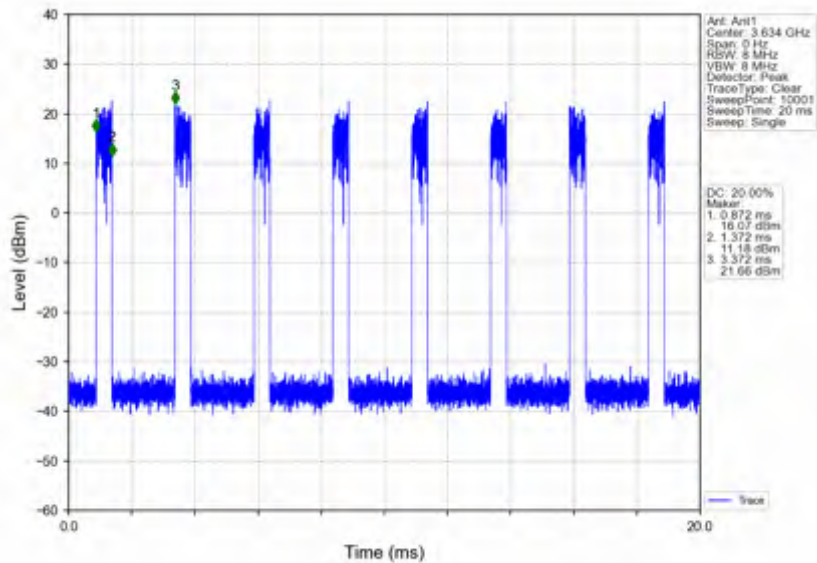
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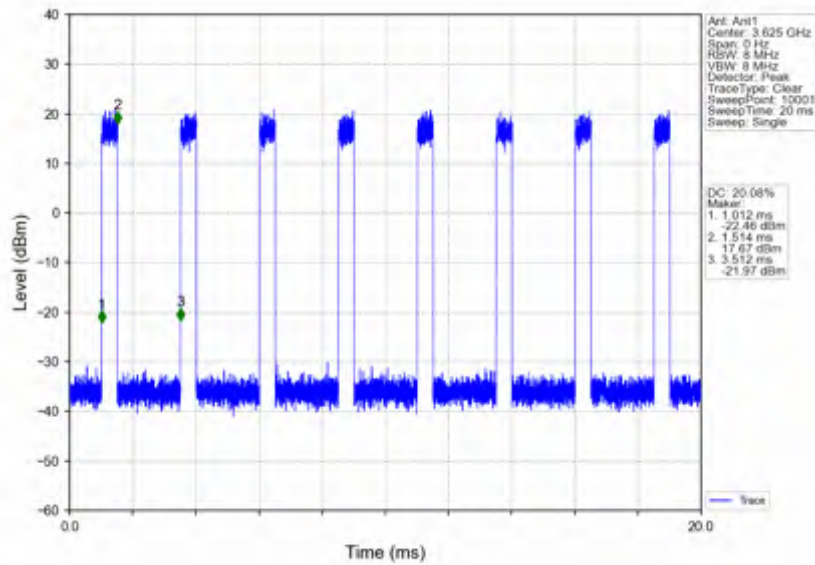
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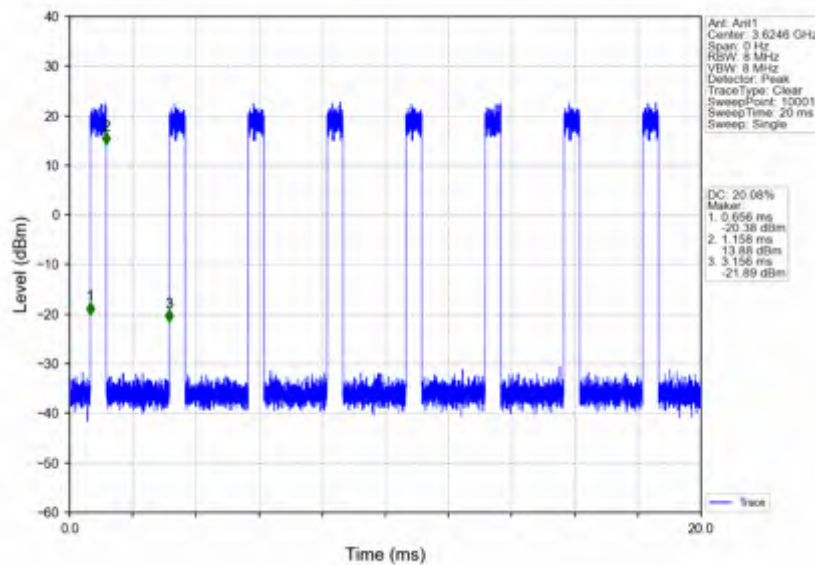
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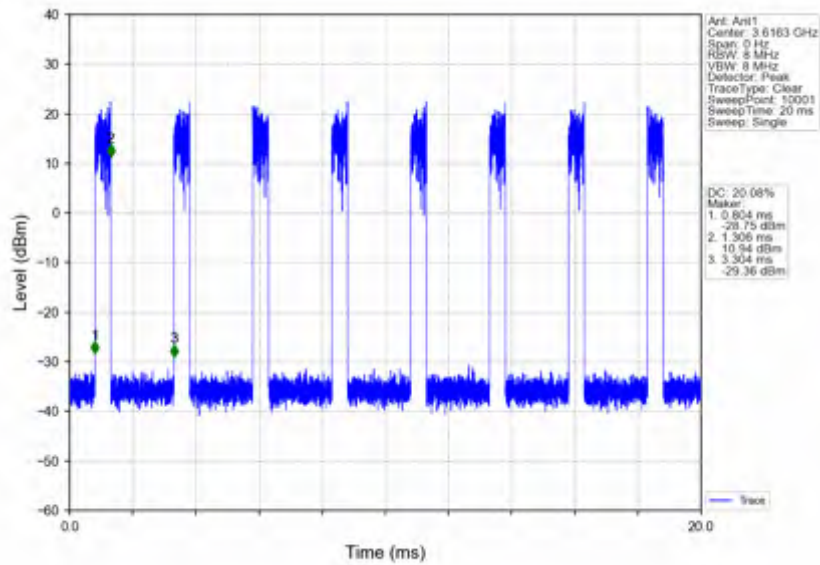
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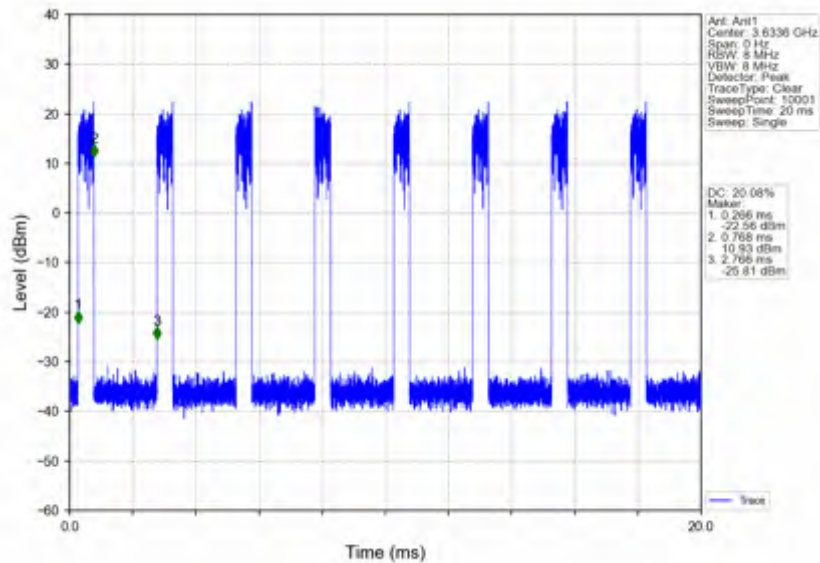
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right



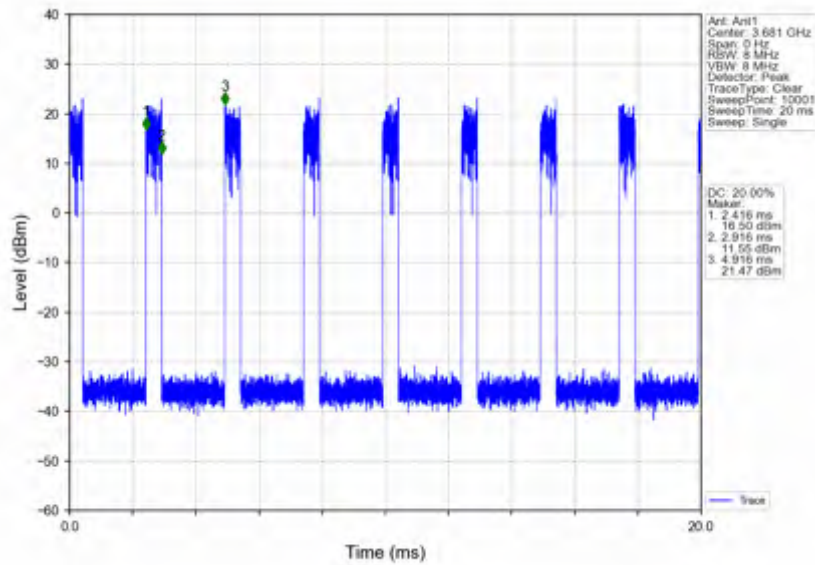
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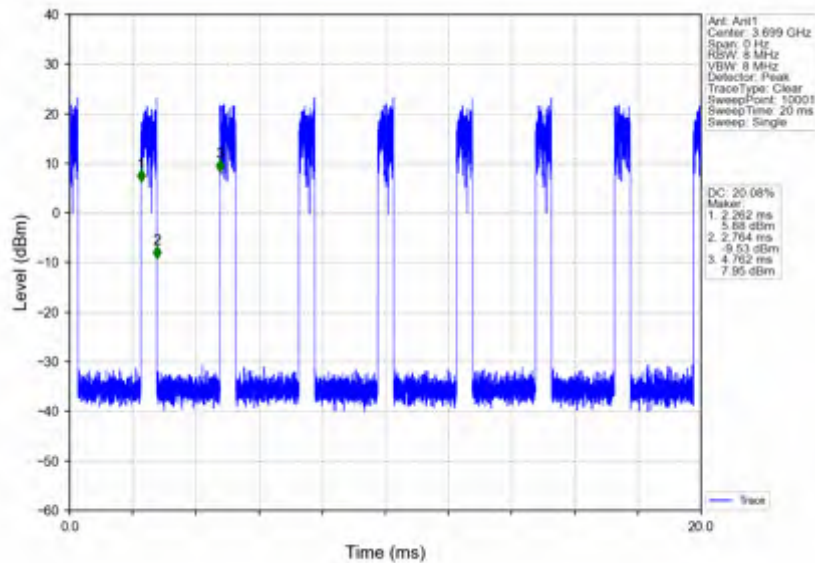
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Edge_1RB_Left



n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Edge_1RB_Right

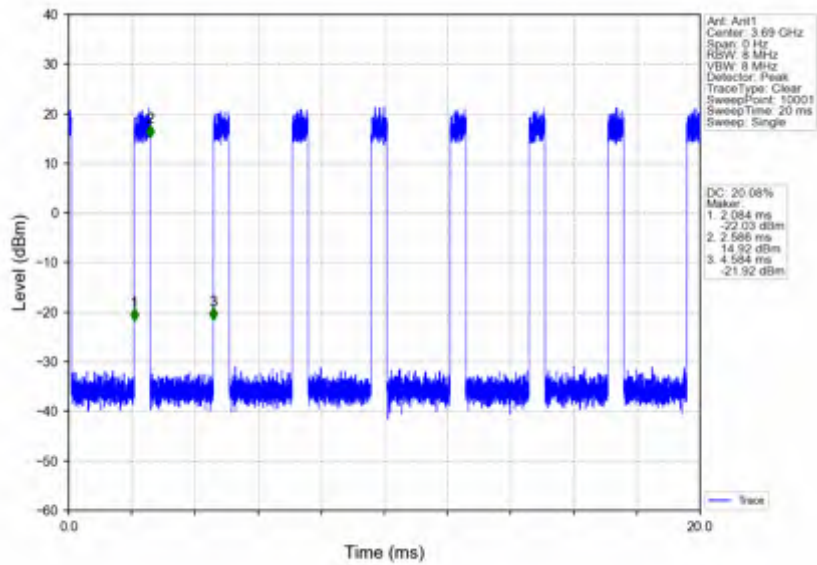


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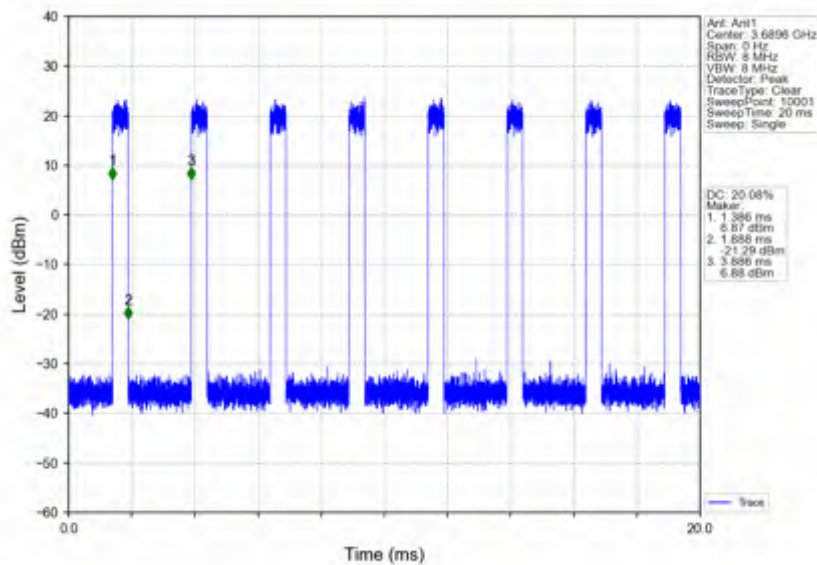
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n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3690MHz_Outer_Full



n78d_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_3690MHz_Inner_Full

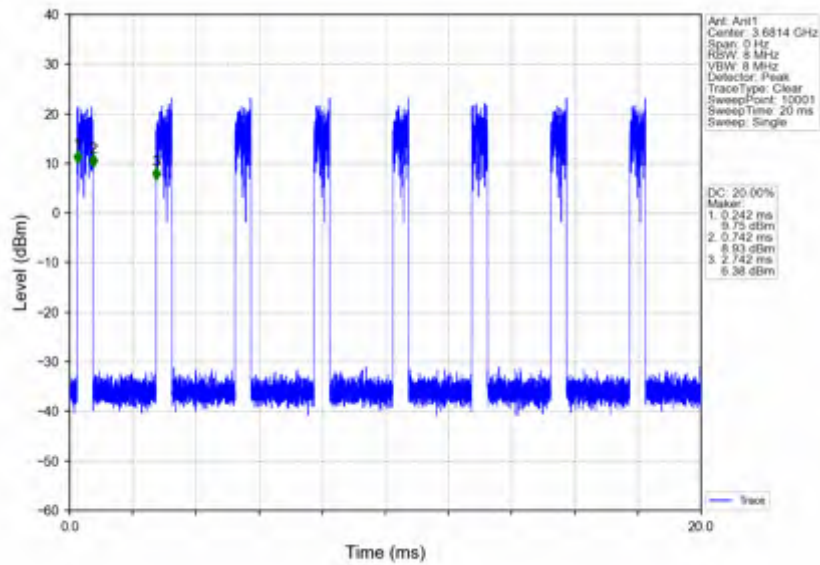


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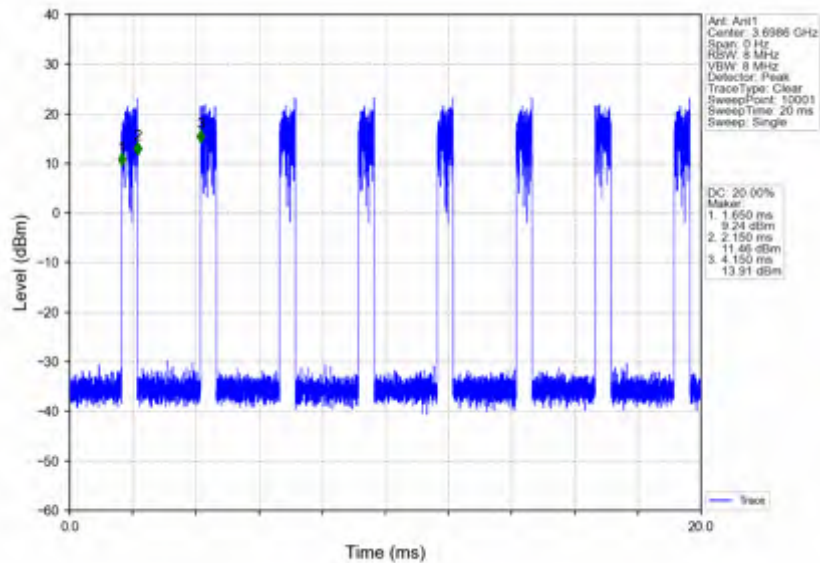
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n78d_30kHz_SISO_NTV_20MHz_CP-OFDM 256 QAM_3690MHz_Inner_1RB_Left



n78d_30kHz_SISO_NTV_20MHz_CP-OFDM 256 QAM_3690MHz_Inner_1RB_Right



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1.11 30k_SISO_25MHz_NTNV

1.11.1 Test Result

5G NR n78d SCS=30kHz SISO 25MHz 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	3562.5	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.02
		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	0.502	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	0.08
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.08
		Edge_1RB_Right	0.504	2.500	20.16	6.96	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.504	2.500	20.16	6.96	0.00
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.08
		Inner_1RB_Right	0.506	2.500	20.24	6.94	0.00
	3687.48	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	0.00
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00
DFT-s-OFDM QPSK	3562.5	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	0.06
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.06
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00
	3687.48	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
DFT-s-OFDM 16 QAM	3562.5	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	0.08
		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	0.502	2.500	20.08	6.97	0.08
	3624.99	Edge_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Edge_1RB_Right	0.502	2.500	20.08	6.97	0.00



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		Outer_Full	0.502	2.500	20.08	6.97	0.08		
		Inner_Full	0.504	2.500	20.16	6.96	0.00		
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06		
	3687.48		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	0.502	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	0.06	
			Edge_1RB_Right	0.502	2.500	20.08	6.97	0.06	
DFT-s-OFDM 64 QAM	3562.5	Outer_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.06		
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06		
	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	0.06	
			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	0.502	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	0.06	
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3687.48		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	0.500	2.500	20.00	6.99	0.06	
	DFT-s-OFDM 256 QAM	3562.5	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08	
			Edge_1RB_Right	0.502	2.500	20.08	6.97	0.06	
			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	0.500	2.500	20.00	6.99	0.08
				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	0.500	2.500	20.00	6.99	0.00
3687.48			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	
CP-OFDM QPSK	3562.5	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.08		
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.00		
		Outer_Full	0.502	2.500	20.08	6.97	0.00		
		Inner_Full	0.502	2.500	20.08	6.97	0.00		
	3624.99		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00	
			Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00	
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
			Edge_1RB_Right	0.500	2.500	20.00	6.99	0.06	



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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	0.08	
		Inner_1RB_Left	0.500	2.500	20.00	6.99	0.06	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.00	
	3687.48		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	0.504	2.500	20.16	6.96	0.00
	CP-OFDM 16 QAM	3562.5	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
			Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06
			Edge_1RB_Right	0.500	2.498	20.02	6.99	0.06
3624.99			Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.06
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
3687.48			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	0.502	2.500	20.08	6.97	0.00
CP-OFDM 64 QAM	3562.5	Inner_1RB_Left	0.502	2.500	20.08	6.97	0.06	
		Inner_1RB_Right	0.502	2.500	20.08	6.97	0.00	
		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.06	
		Edge_1RB_Right	0.500	2.498	20.02	6.99	0.06	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
	3687.48		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	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
CP-OFDM 256 QAM	3562.5	Inner_1RB_Left	0.500	2.500	20.00	6.99	0.06	
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.08	
		Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00	
		Edge_1RB_Right	0.500	2.500	20.00	6.99	0.08	
	3624.99		Outer_Full	0.502	2.500	20.08	6.97	0.00
			Inner_Full	0.502	2.500	20.08	6.97	0.00
			Inner_1RB_Left	0.500	2.500	20.00	6.99	0.00
			Inner_1RB_Right	0.500	2.500	20.00	6.97	0.00



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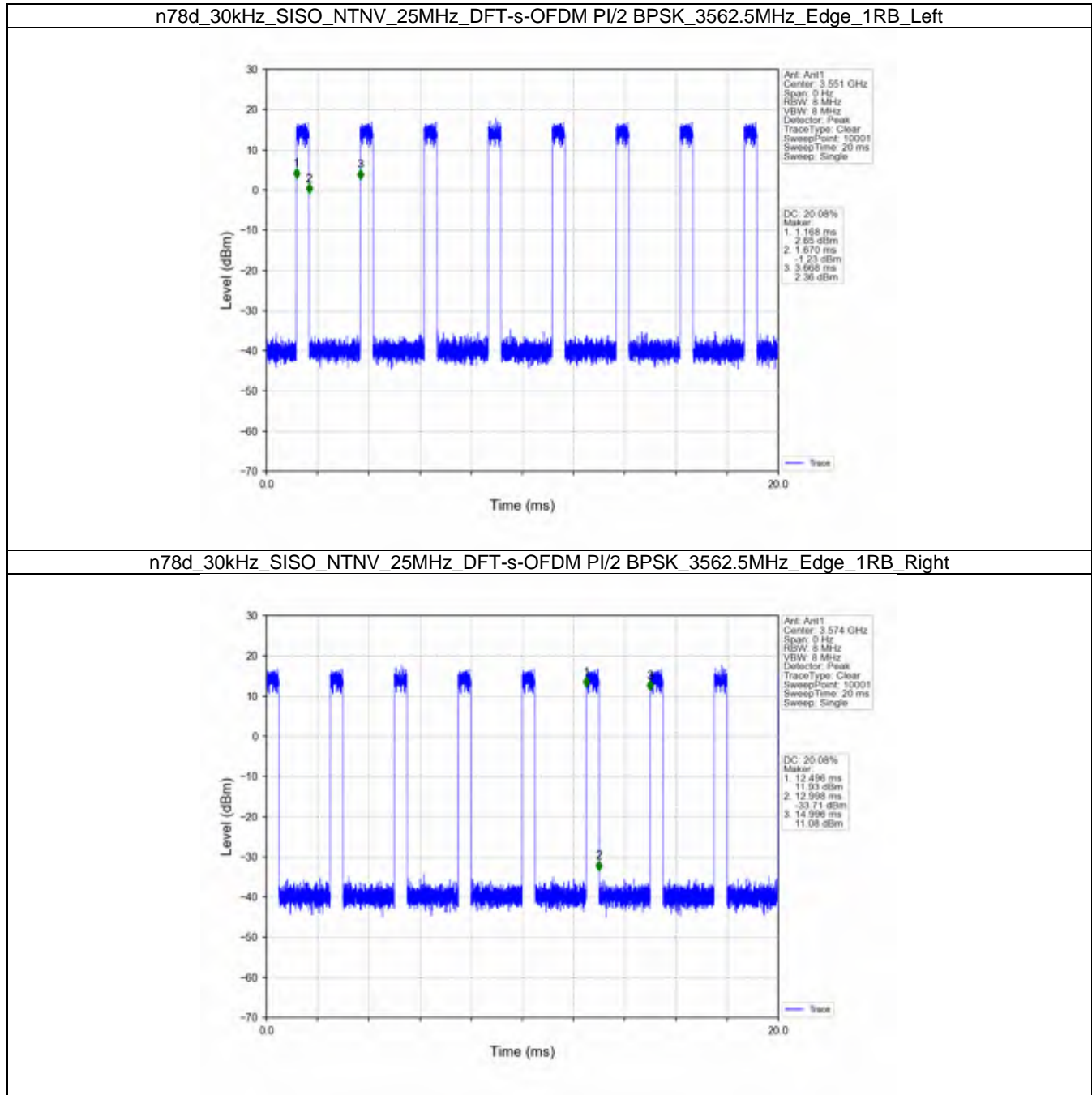
		Outer_Full	0.502	2.500	20.08	6.97	0.00
		Inner_Full	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Right	0.500	2.500	20.00	6.99	0.06
	3687.48	Edge_1RB_Left	0.500	2.500	20.00	6.99	0.00
			0.500	2.498	20.02	6.99	0.06
		Outer_Full	0.502	2.500	20.08	6.97	0.00
			0.502	2.500	20.08	6.97	0.00
		Inner_1RB_Left	0.502	2.500	20.08	6.97	0.00
			0.500	2.500	20.00	6.99	0.14



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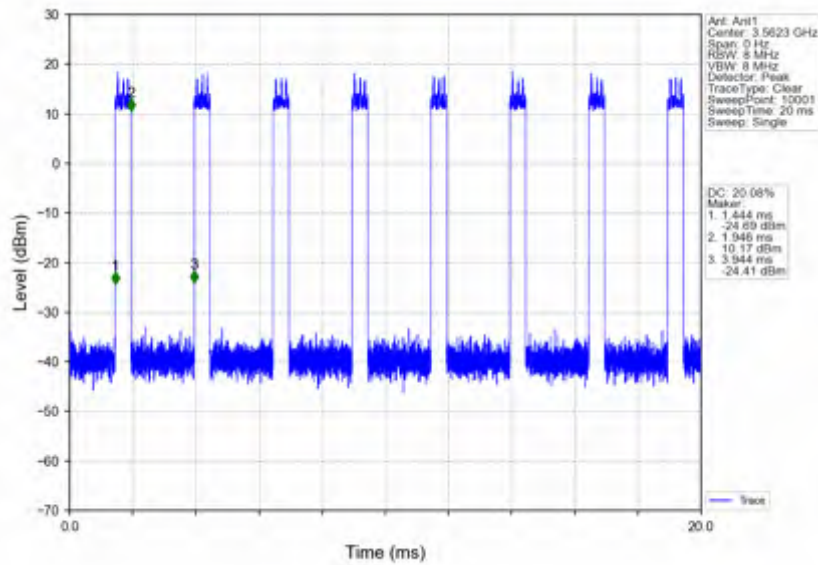
1.11.2 Test Graph



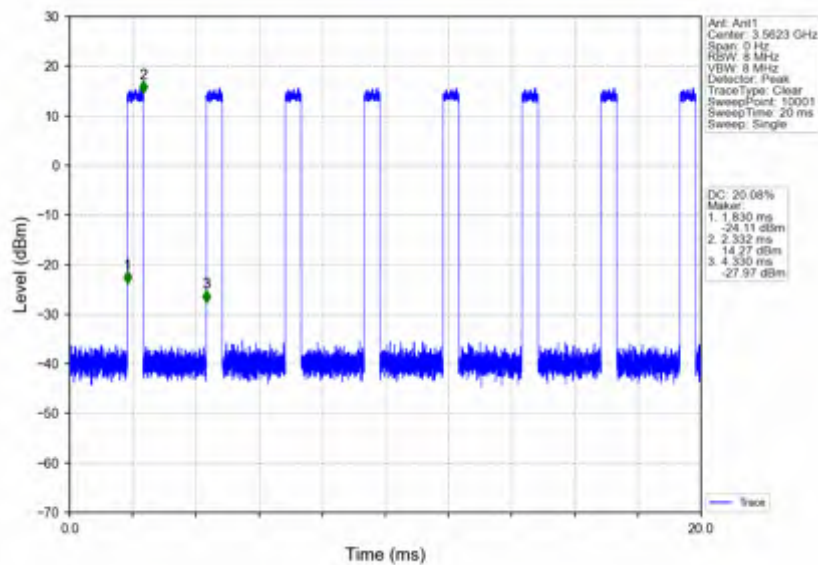
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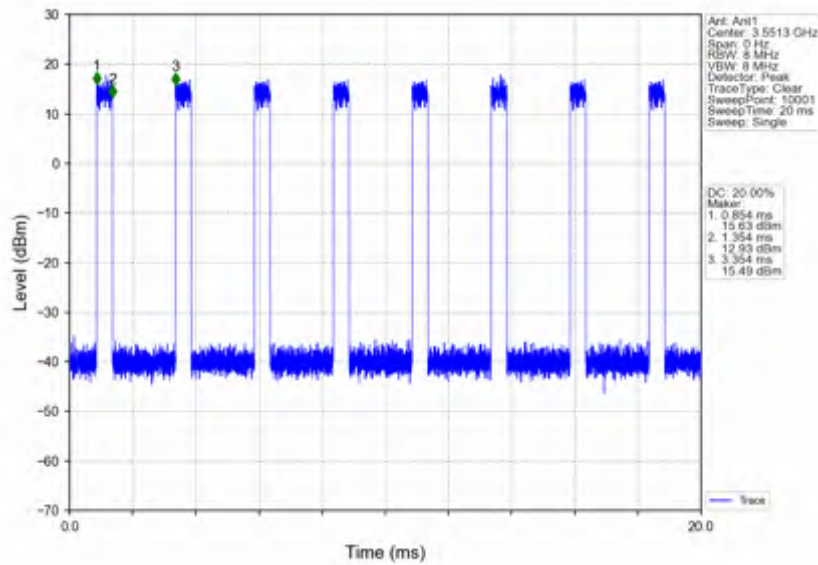
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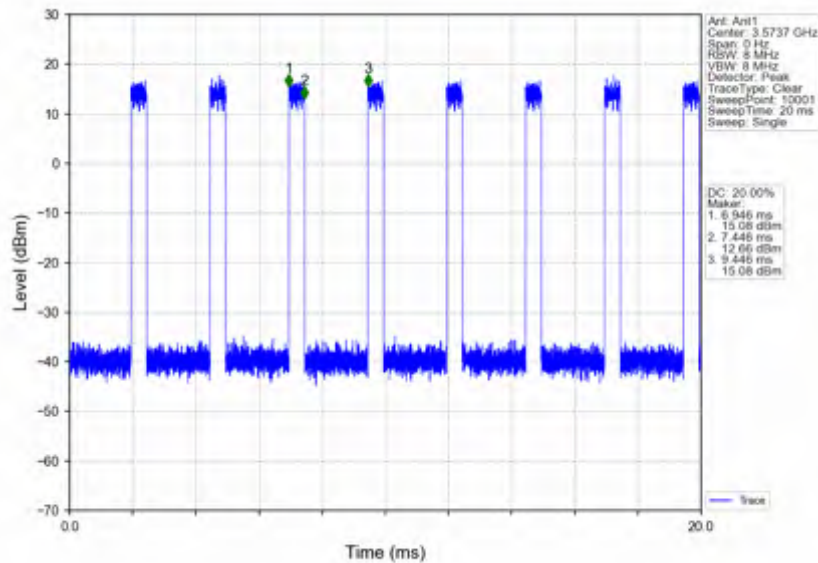
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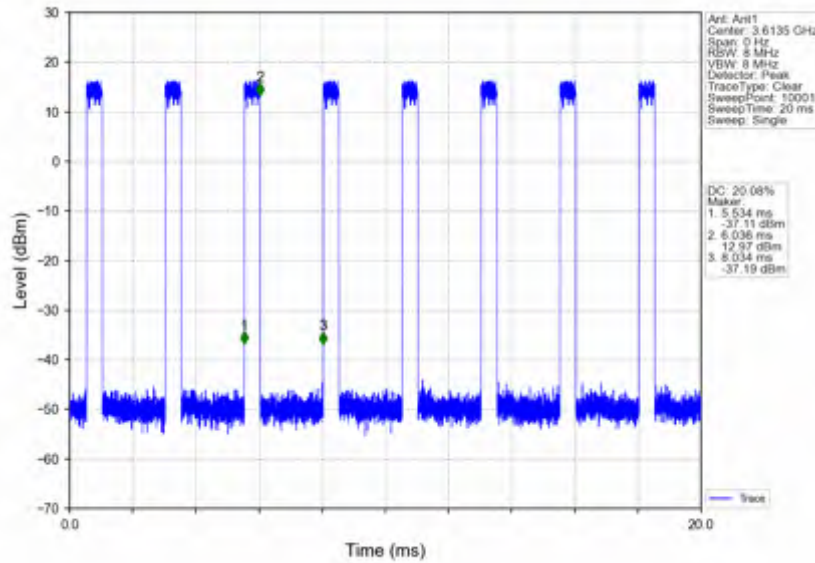
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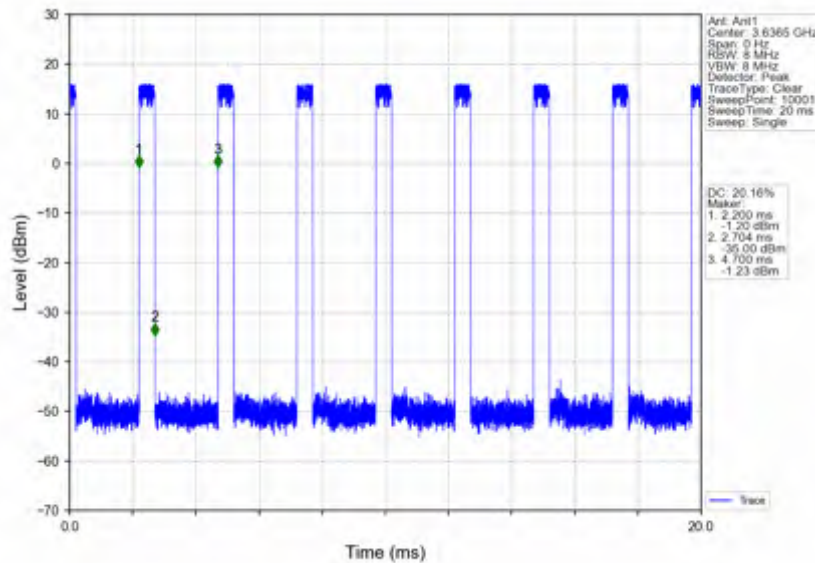
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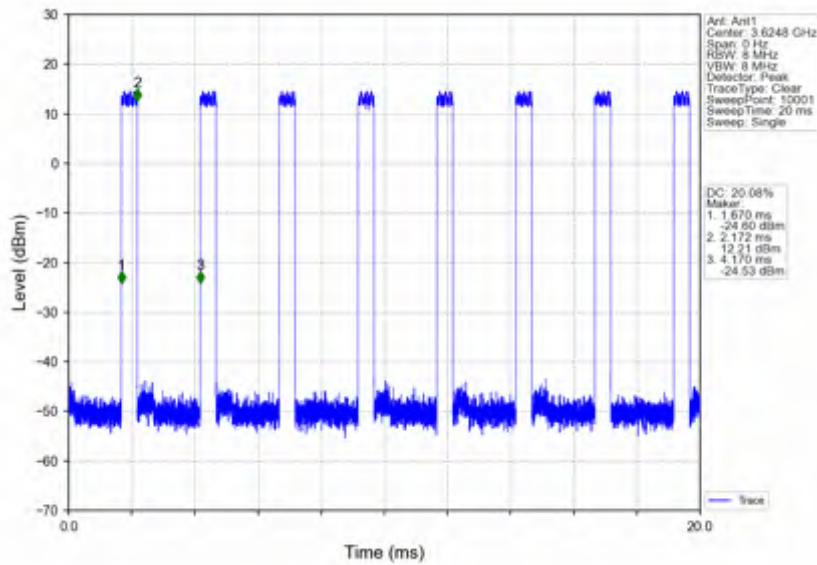


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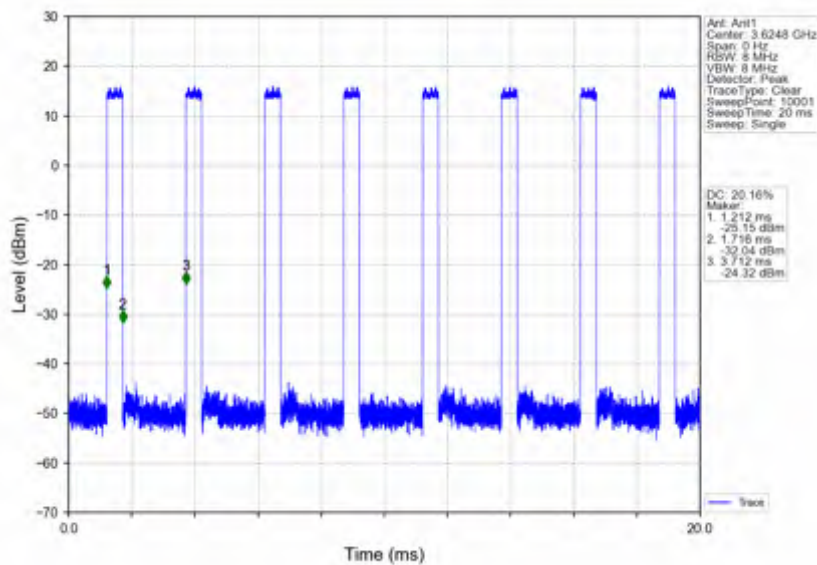
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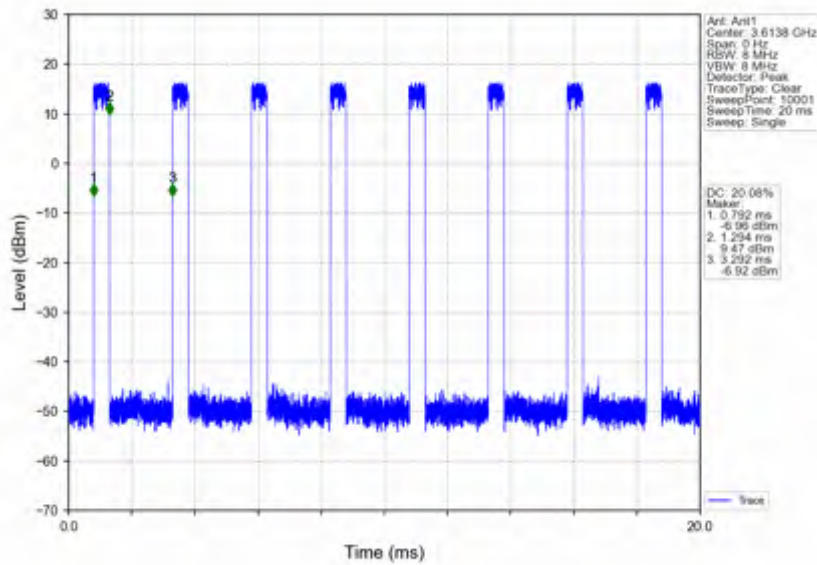


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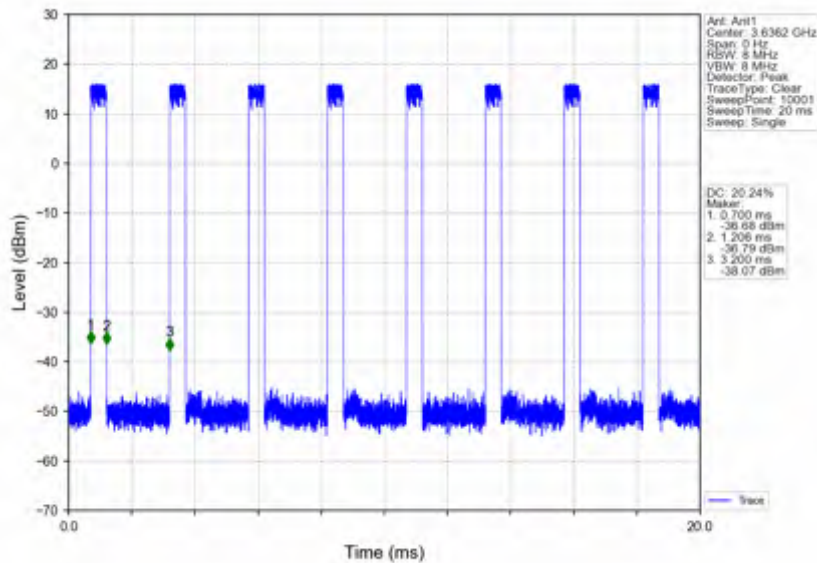
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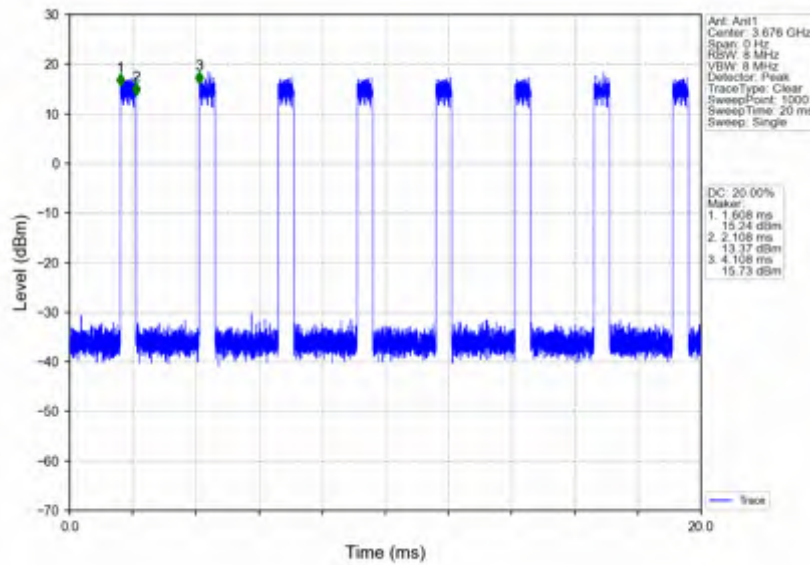
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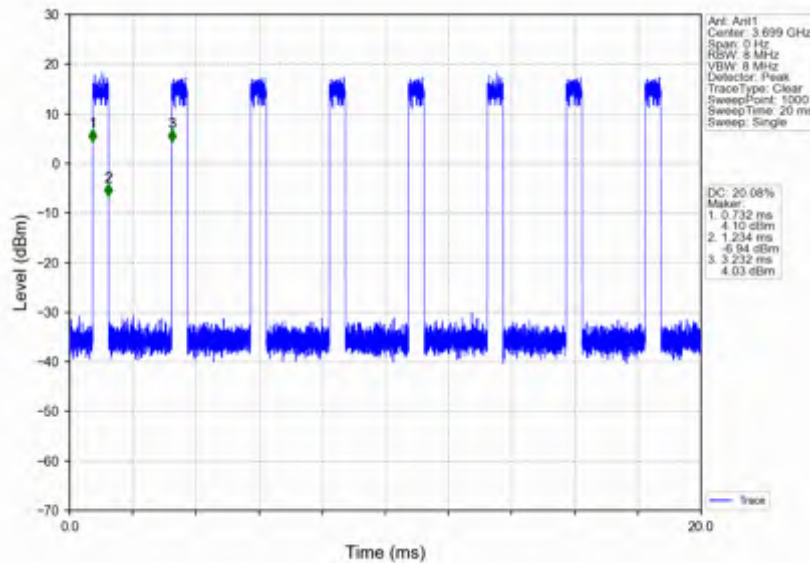
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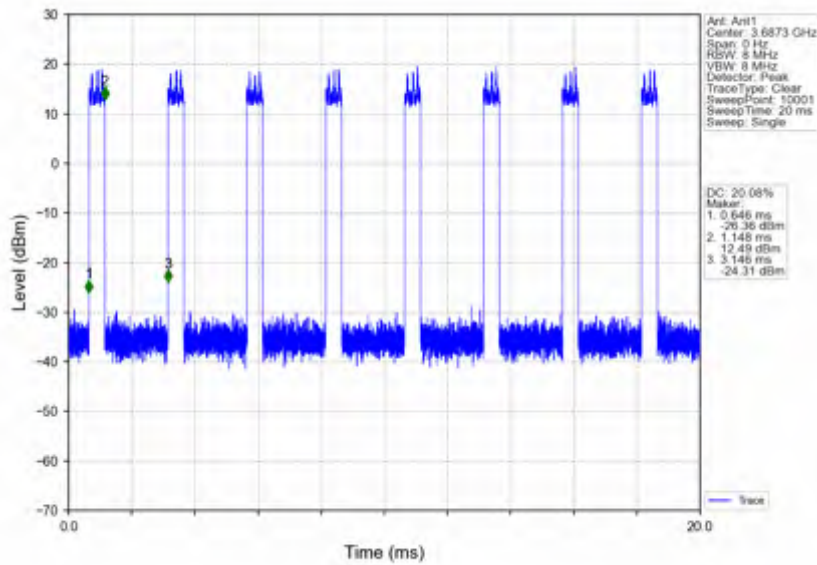
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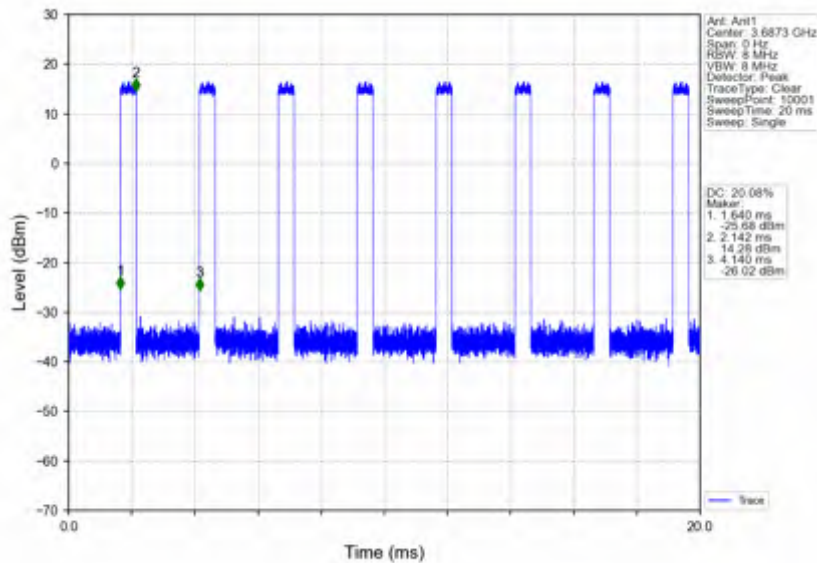
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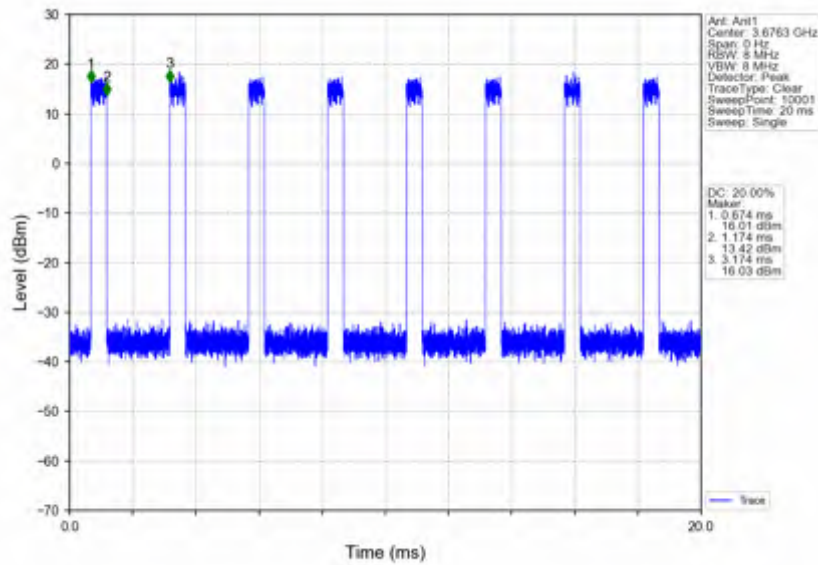
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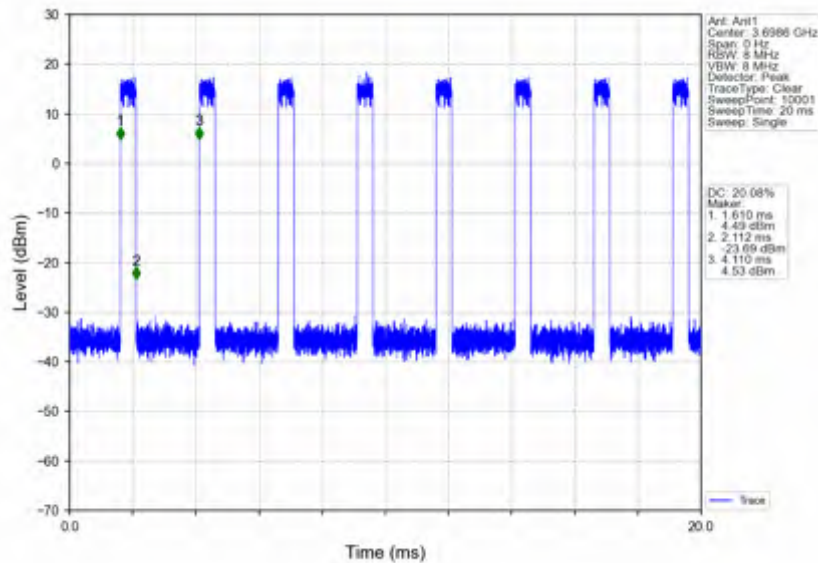
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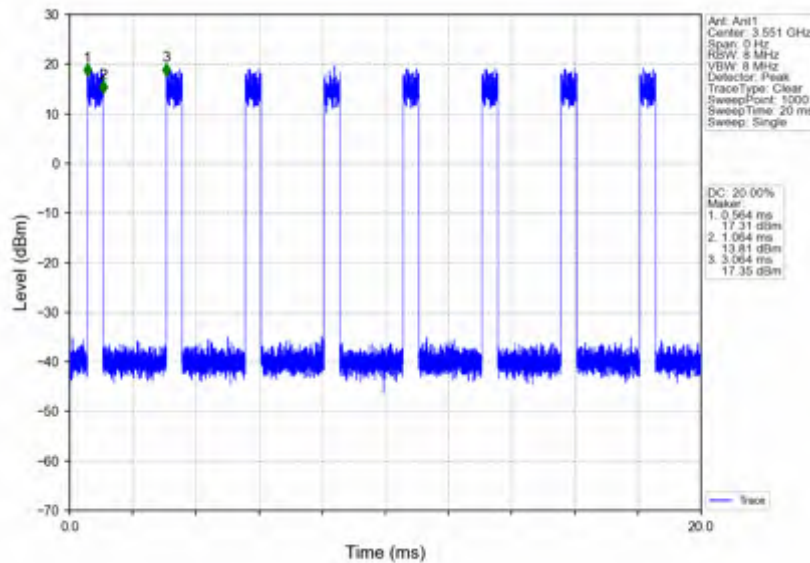
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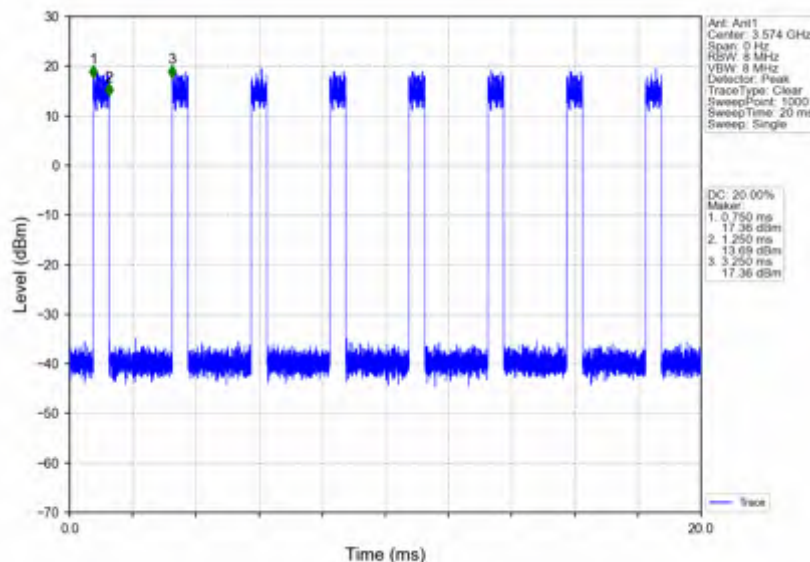
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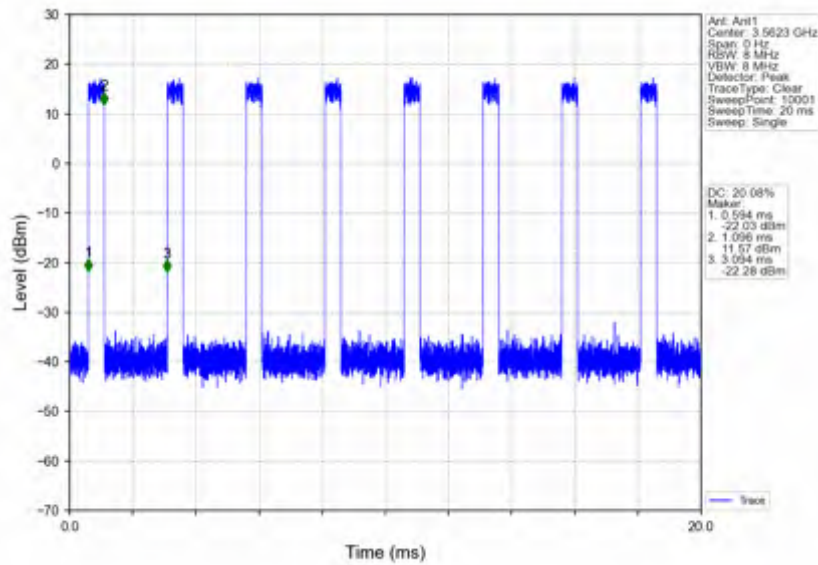


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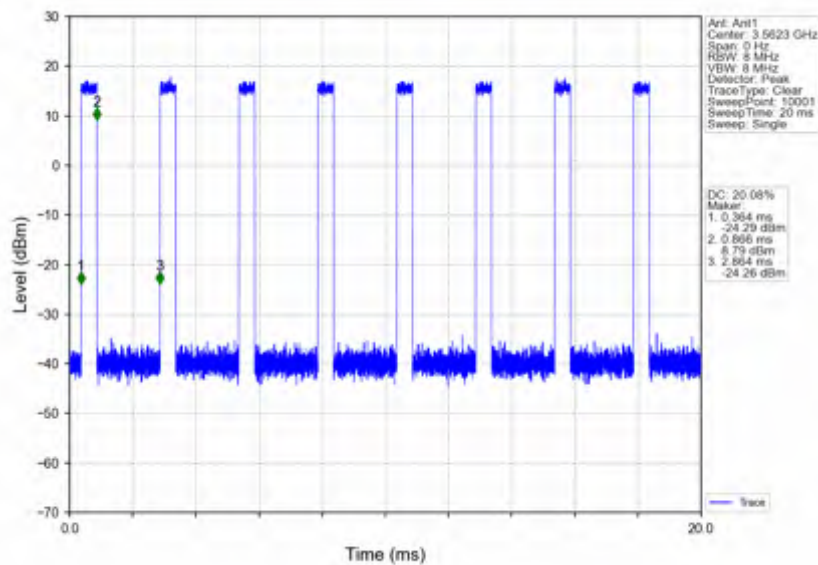
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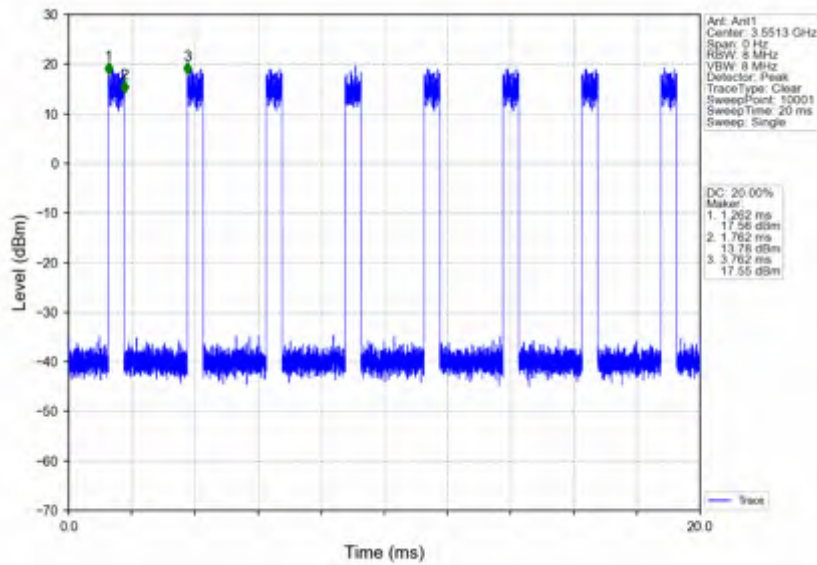
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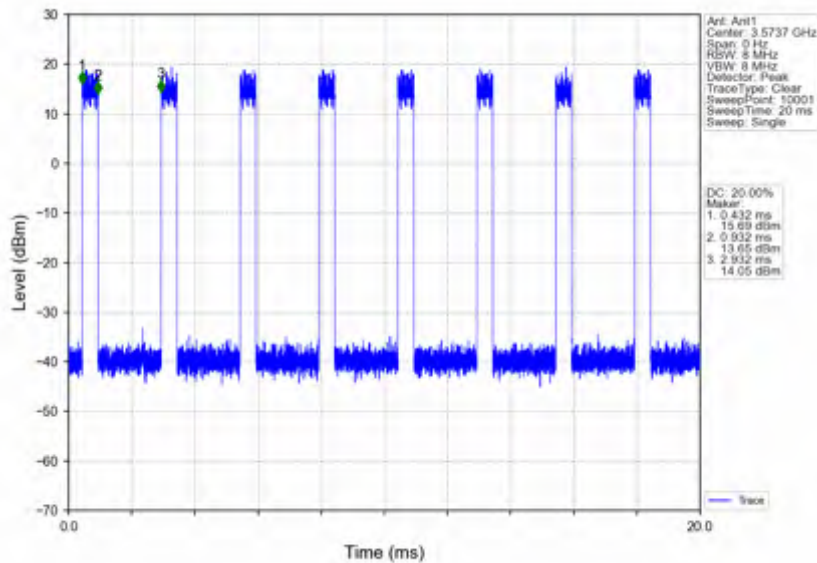
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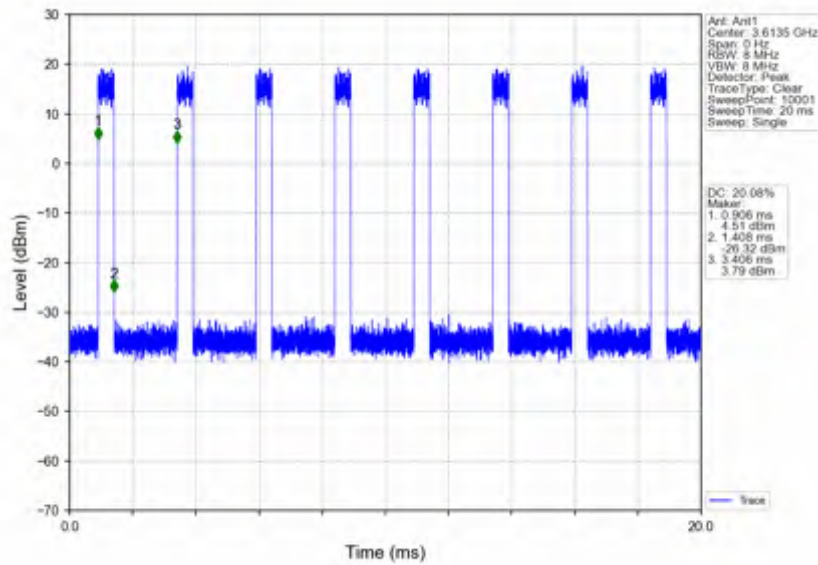
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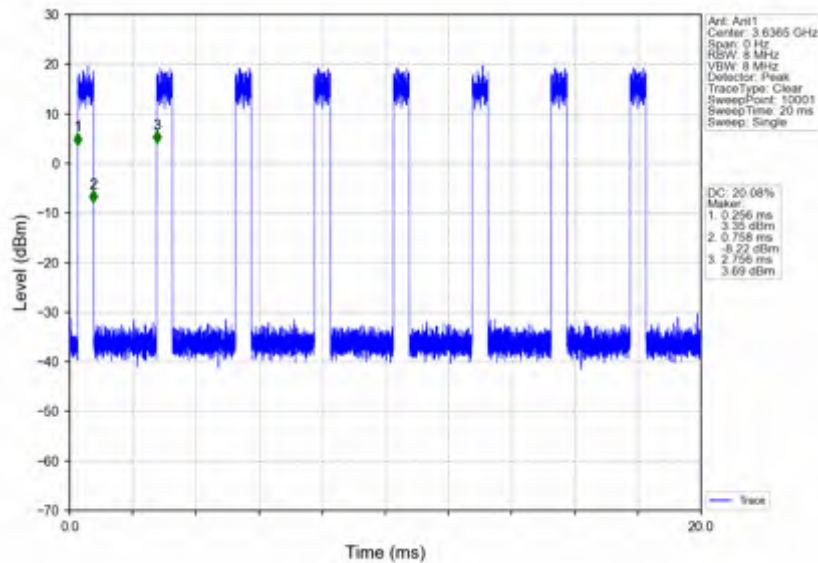
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3624.99MHz_Edge_1RB_Left



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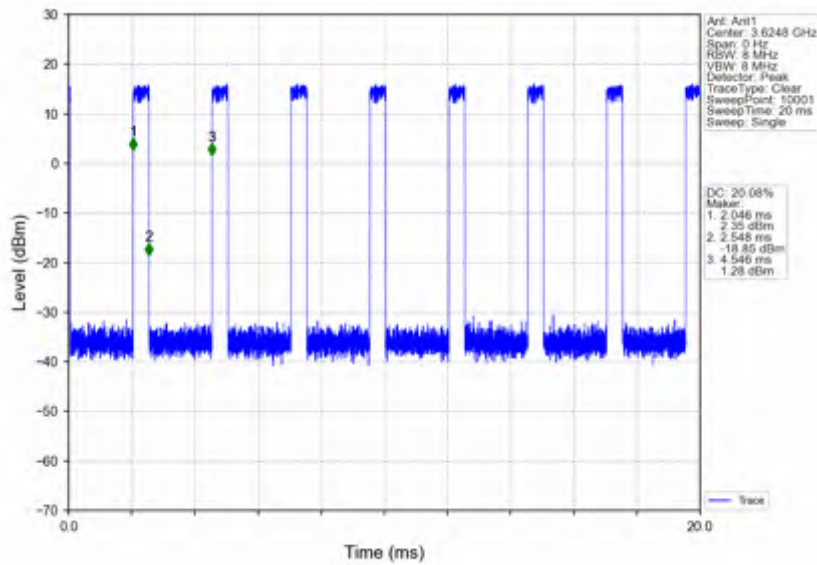
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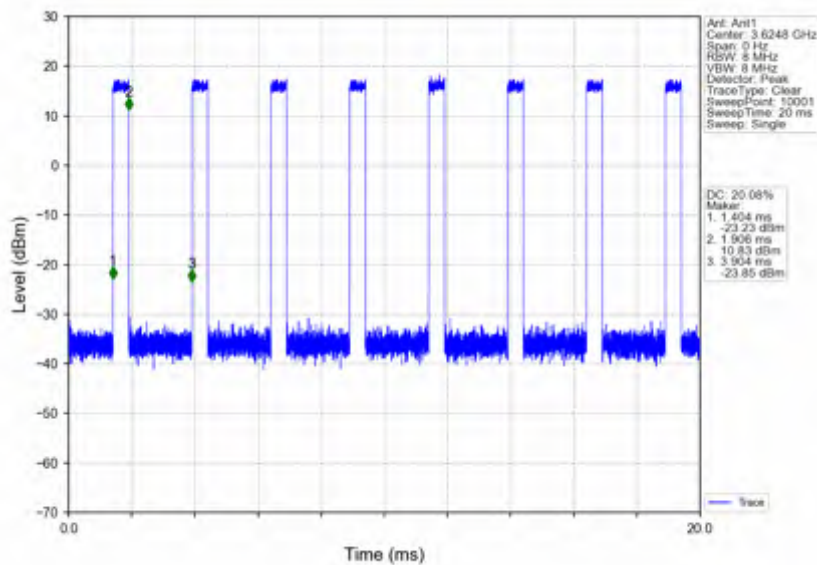
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_QPSK_3624.99MHz_Outer_Full



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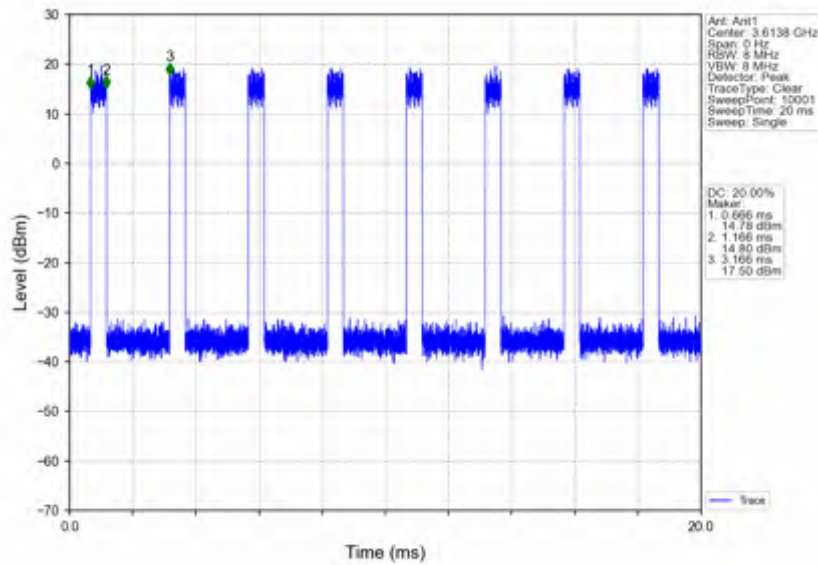
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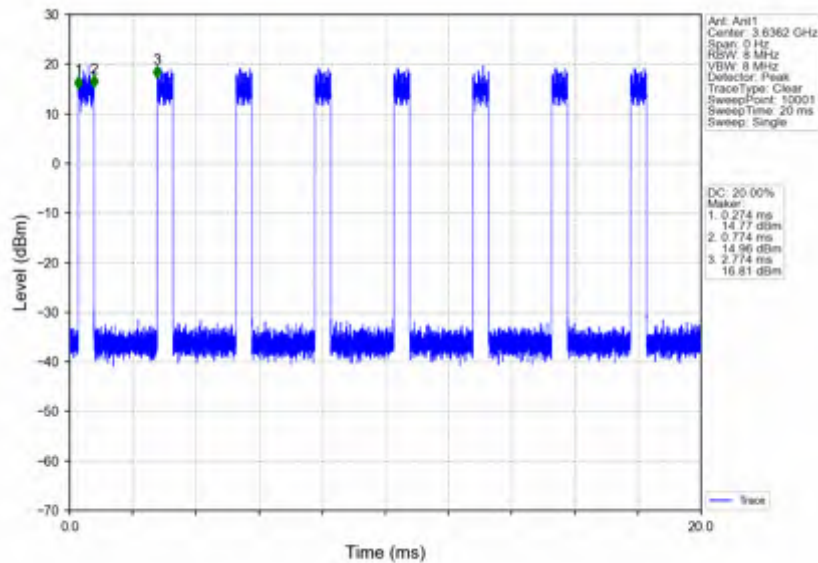
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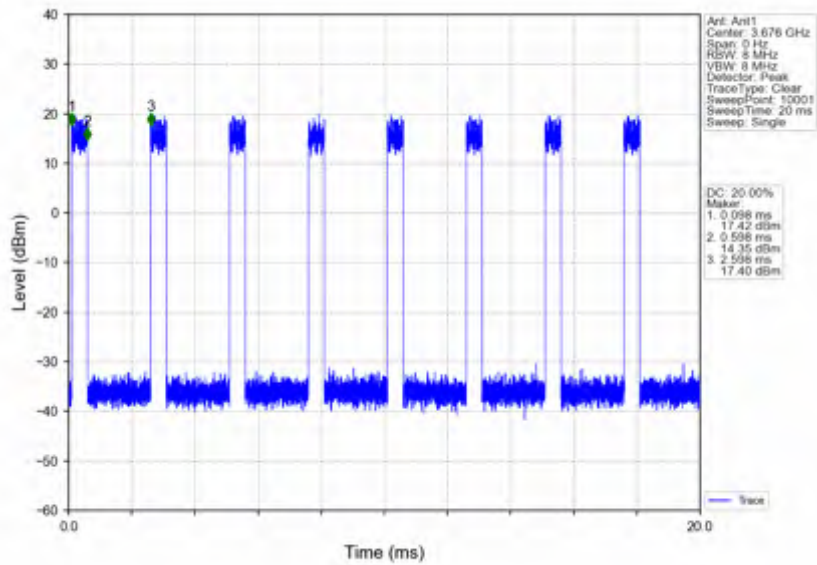
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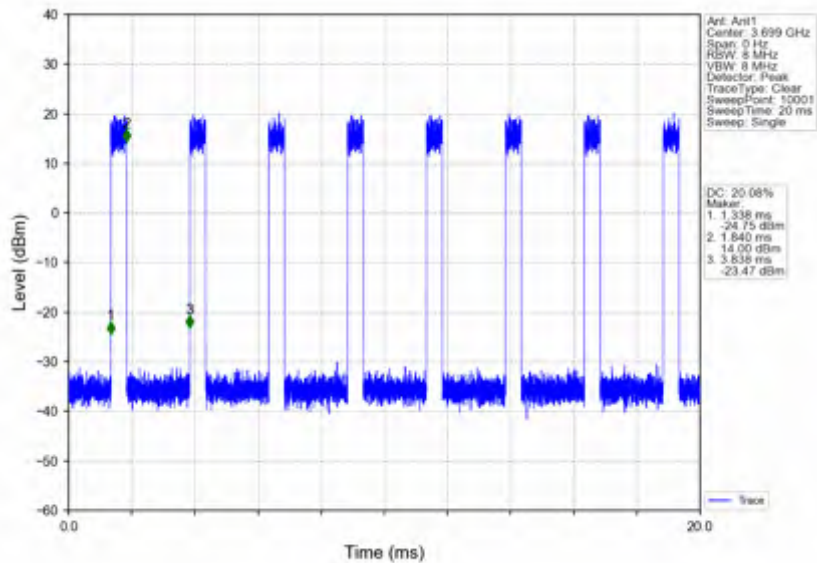
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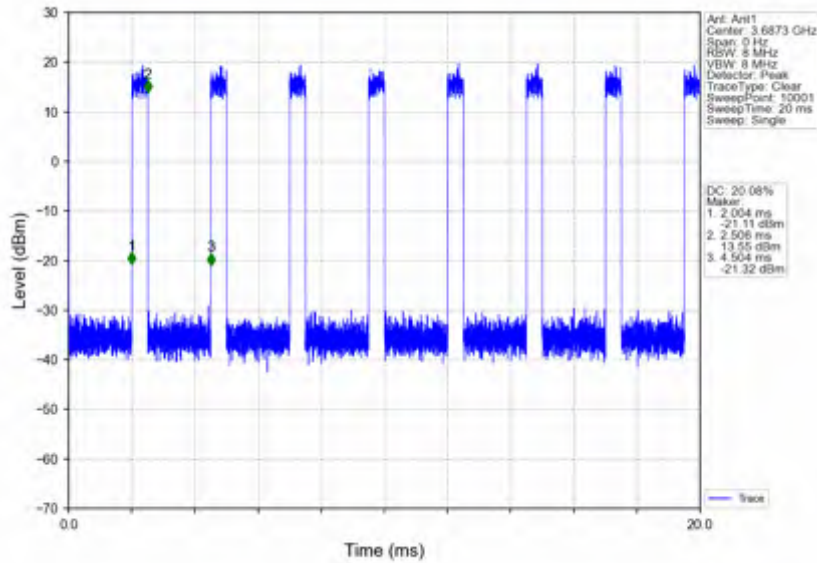
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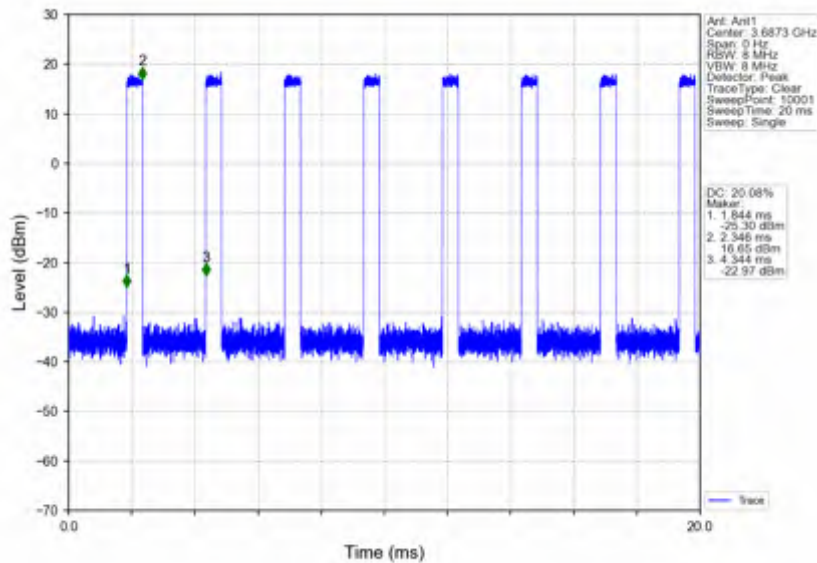
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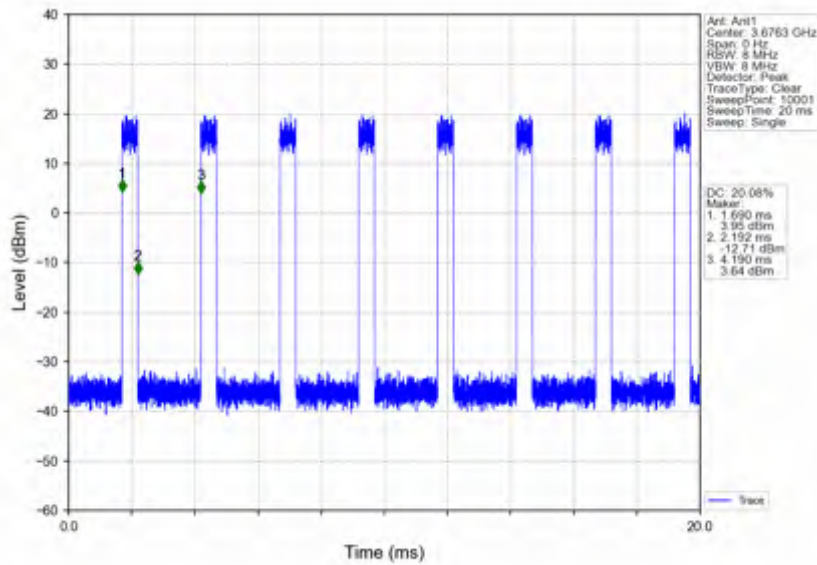


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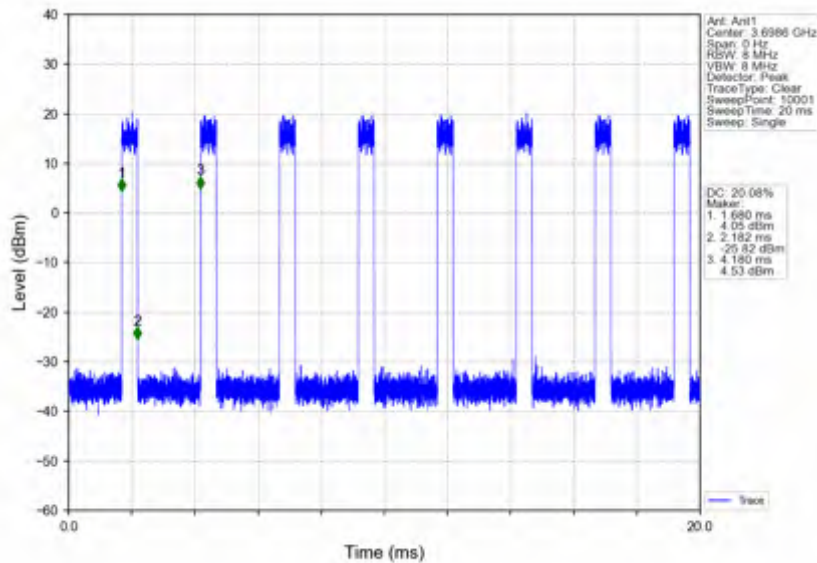
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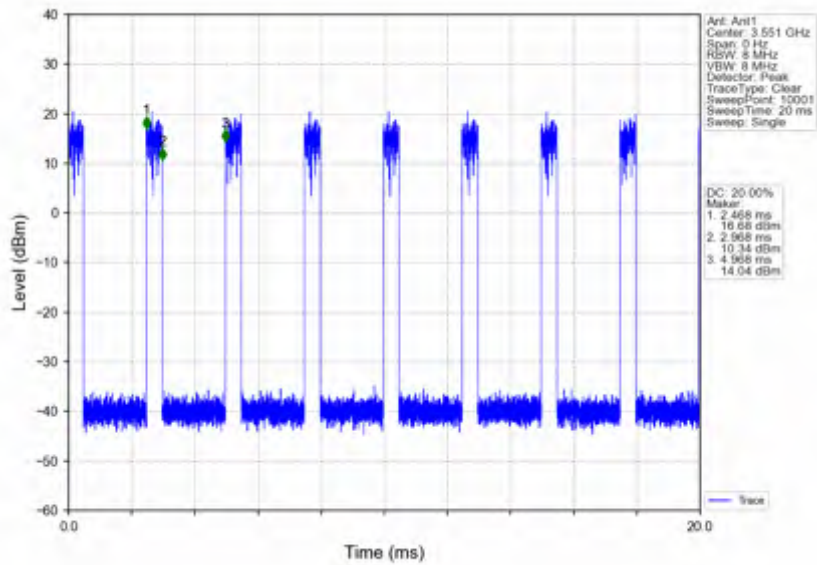
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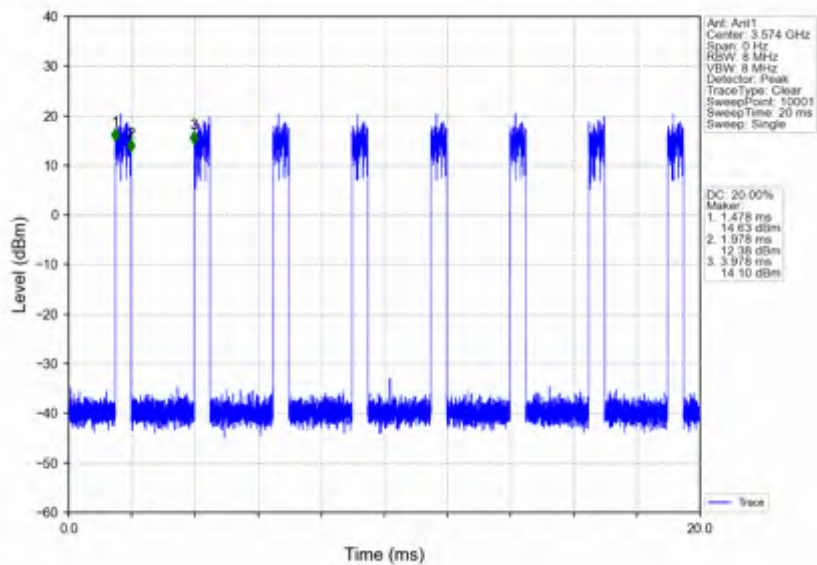
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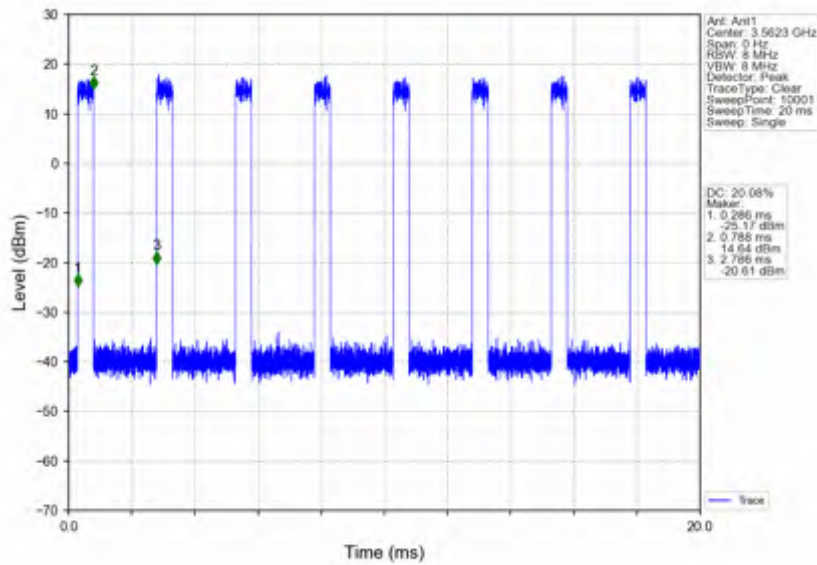


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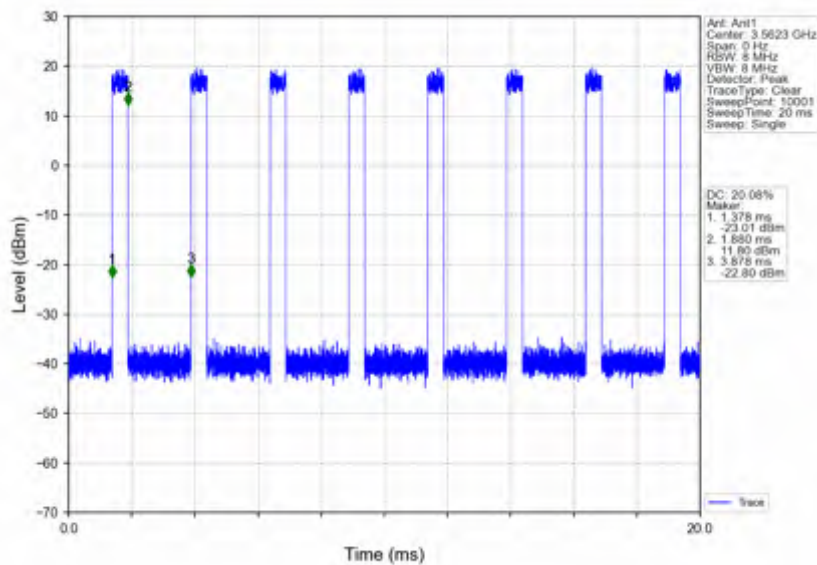
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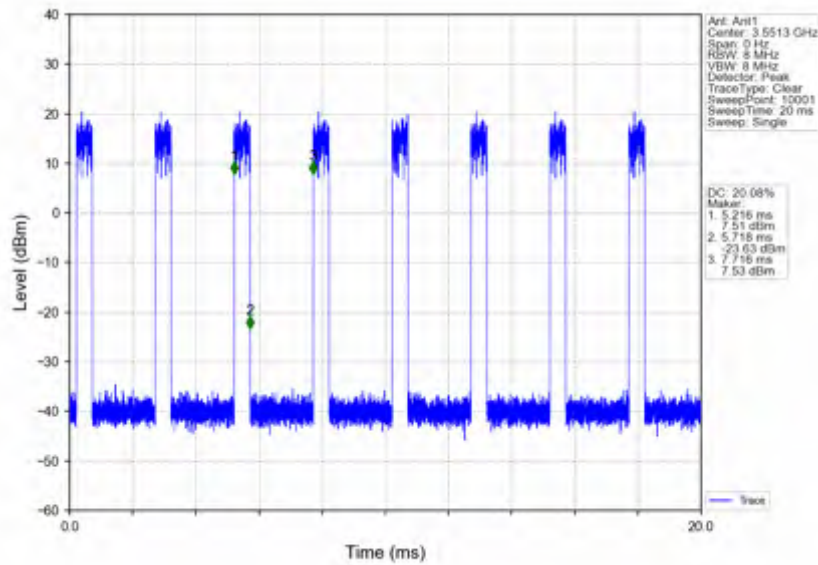
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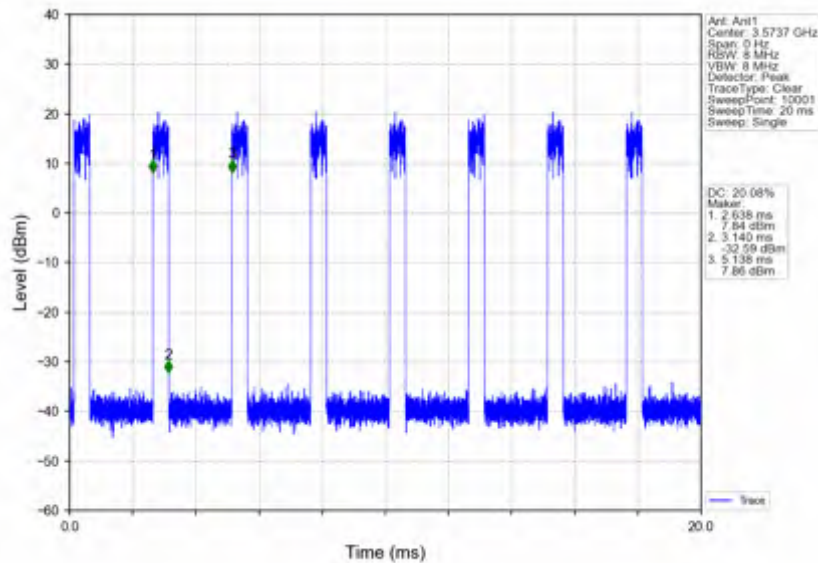
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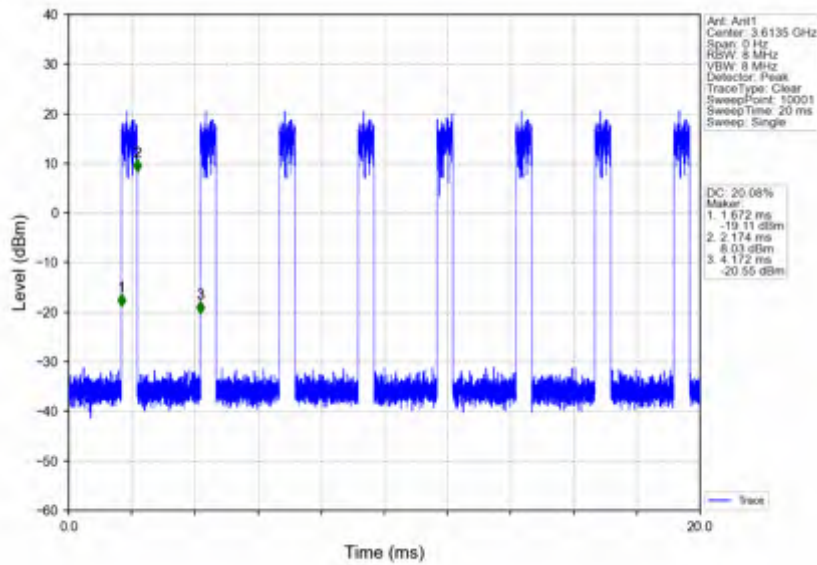


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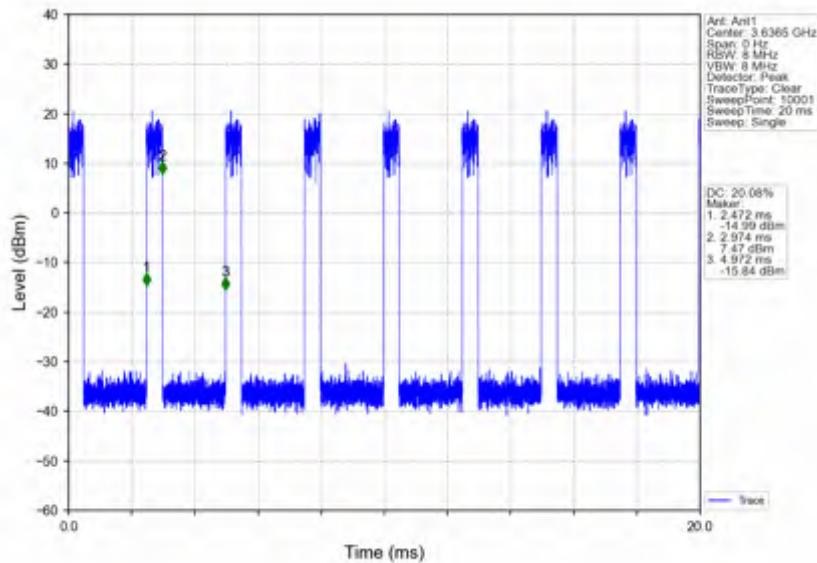
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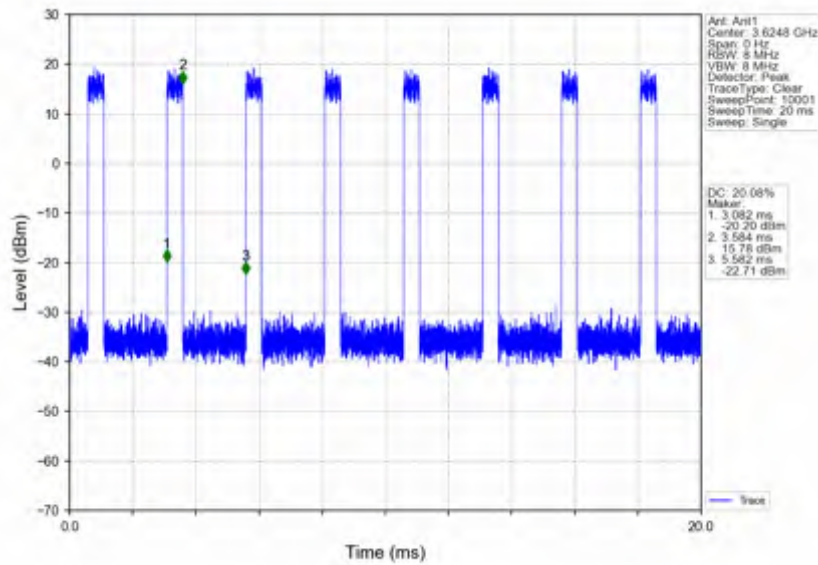


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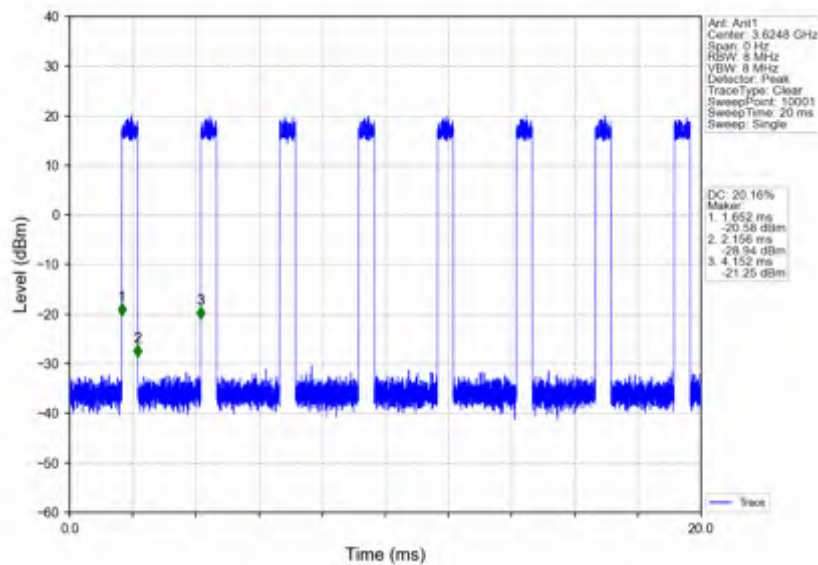
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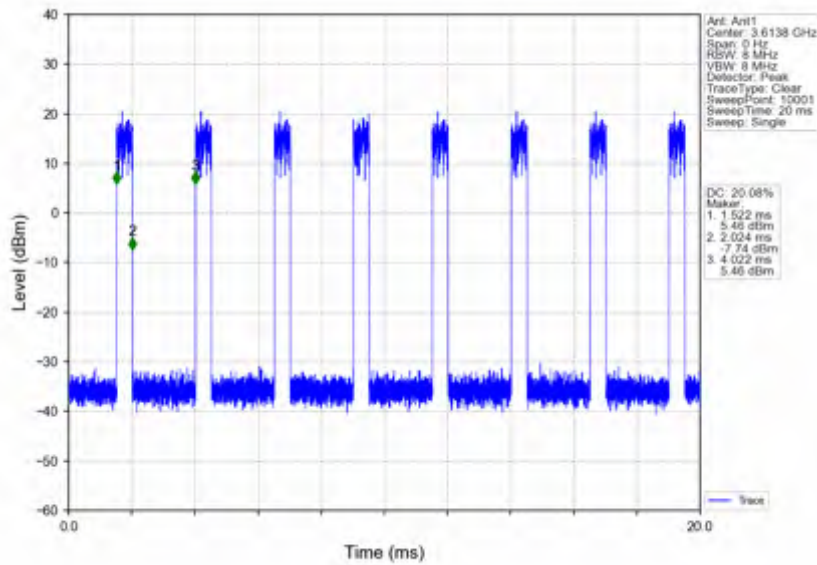
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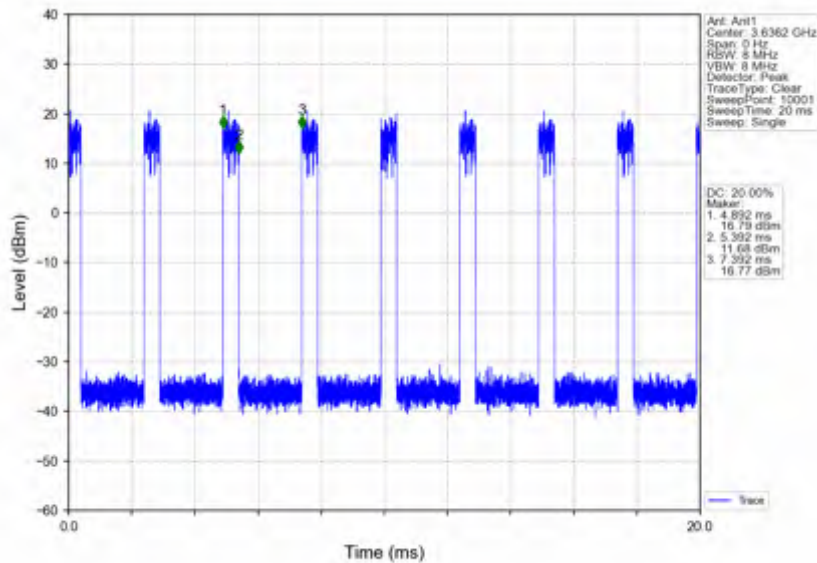
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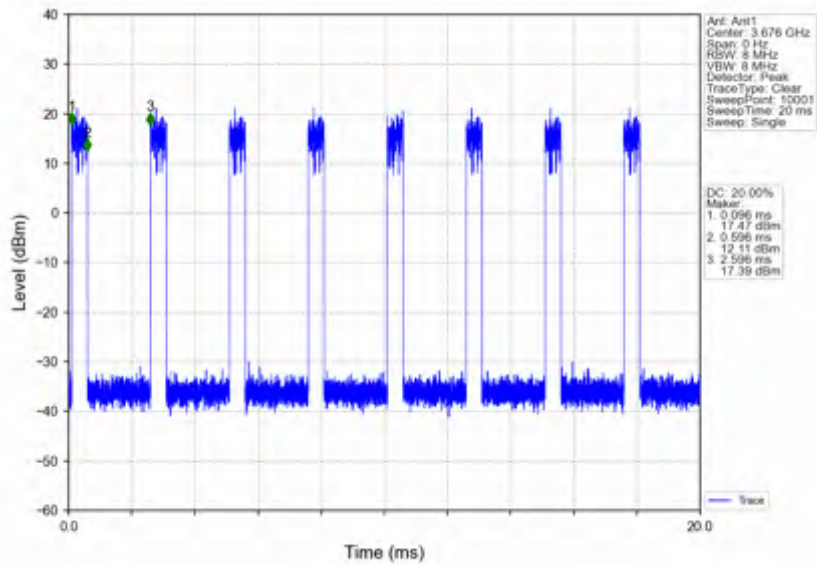
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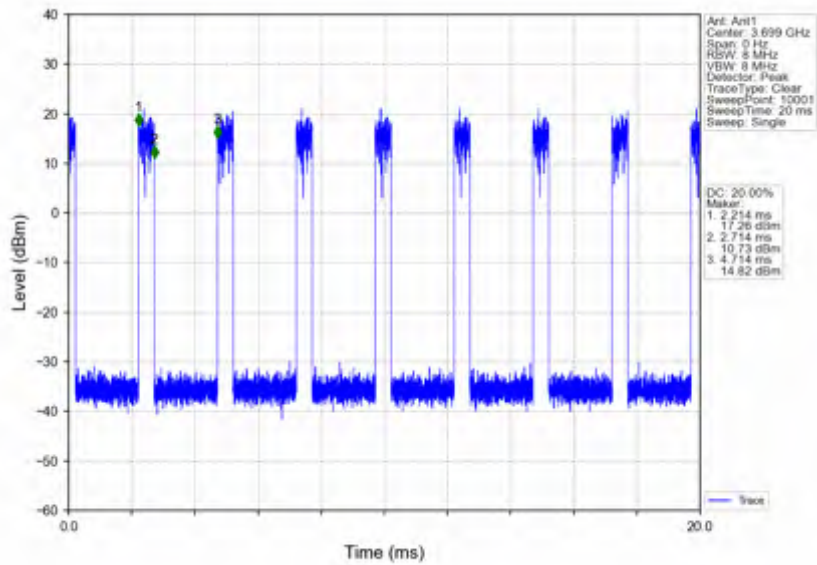
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16 QAM_3687.48MHz_Edge_1RB_Left



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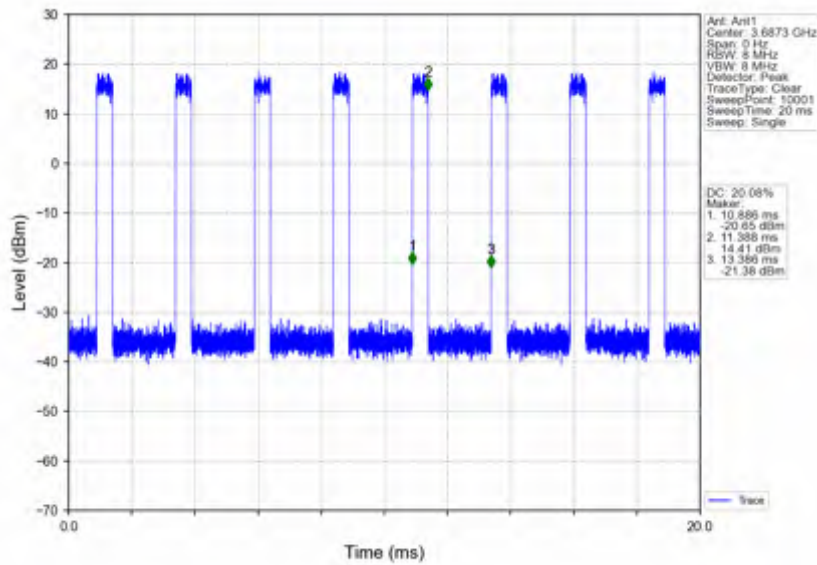


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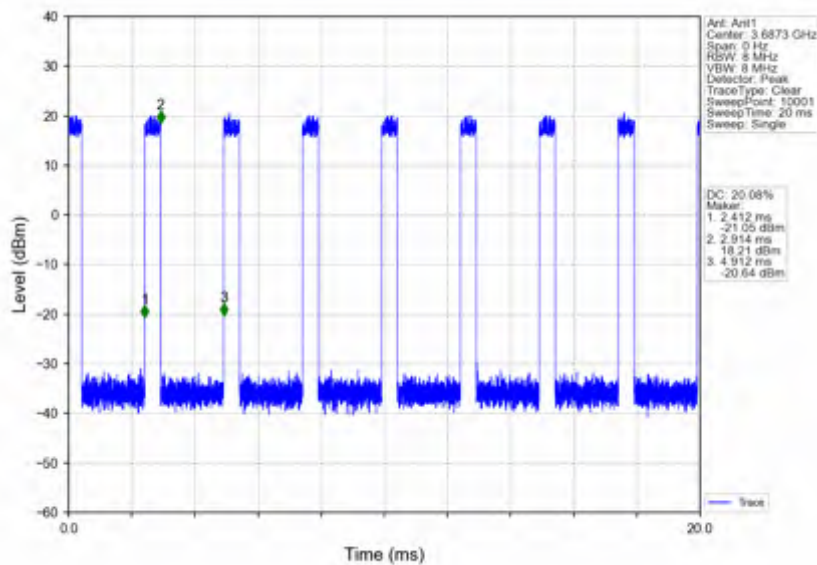
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16 QAM_3687.48MHz_Outer_Full



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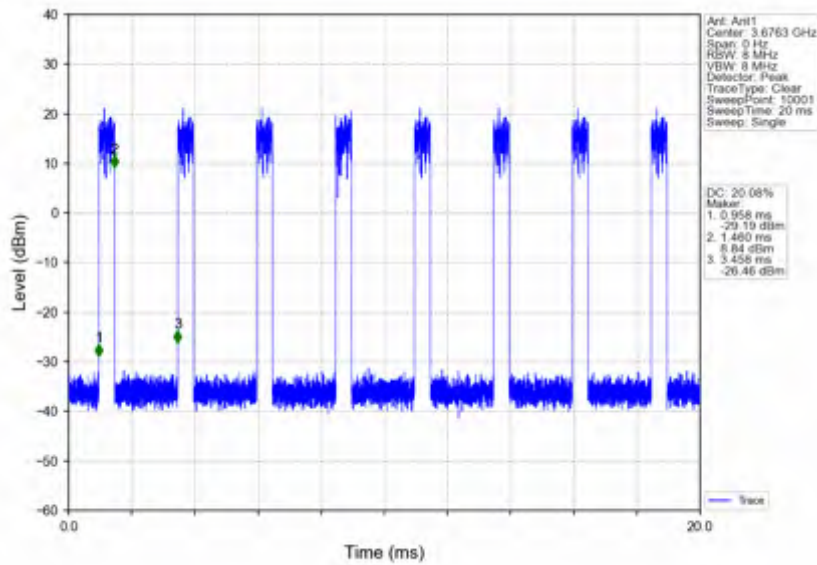
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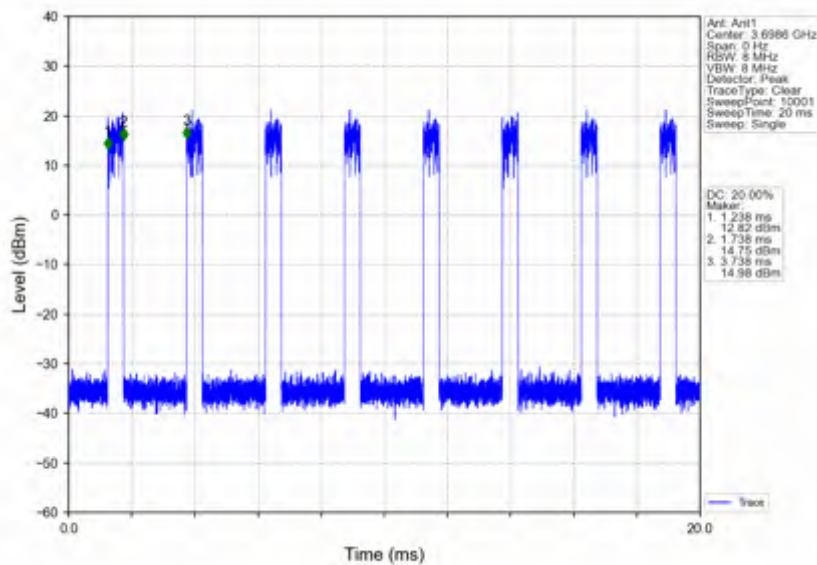
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_3687.48MHz_Inner_1RB_Left



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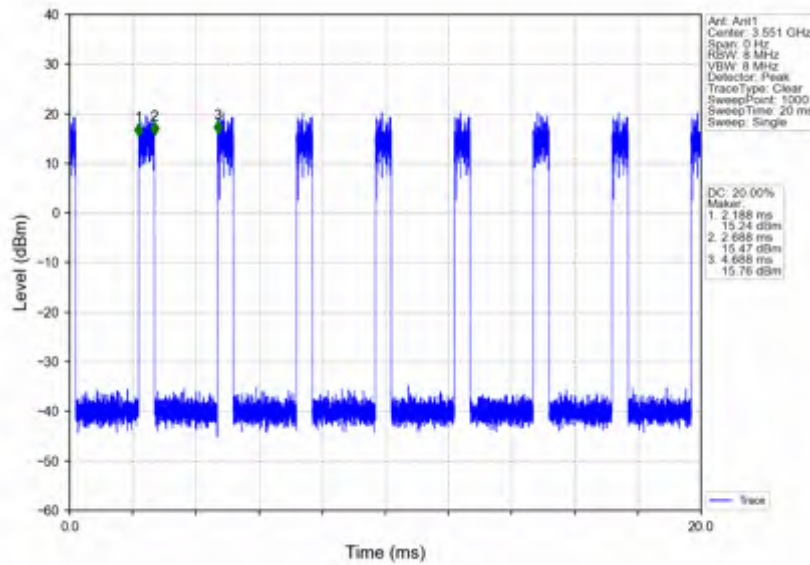


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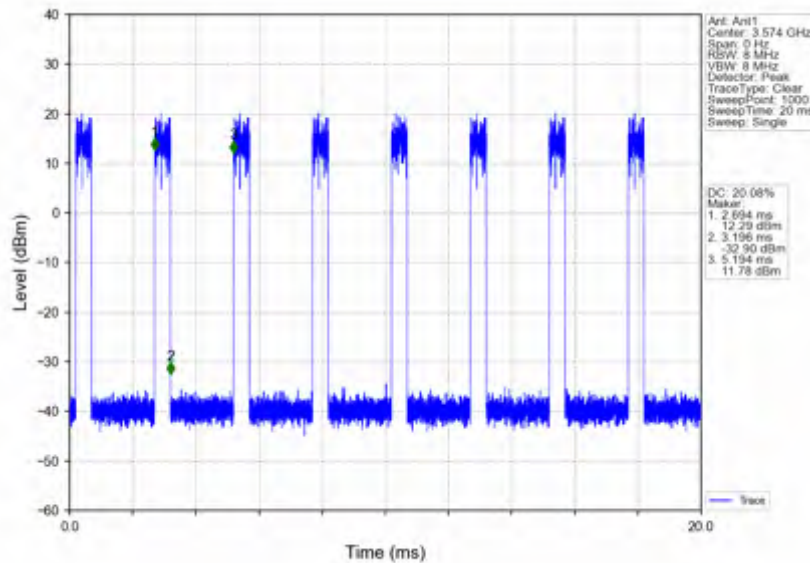
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n78d_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3562.5MHz_Edge_1RB_Left



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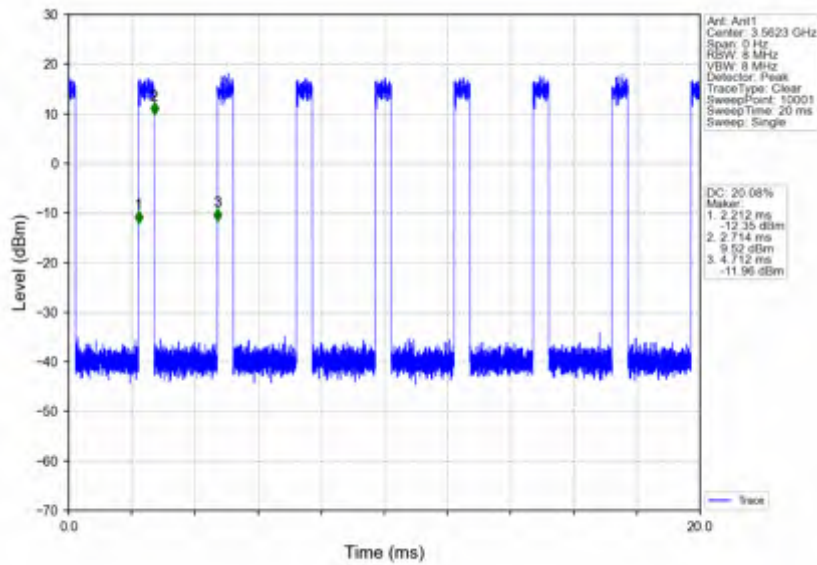


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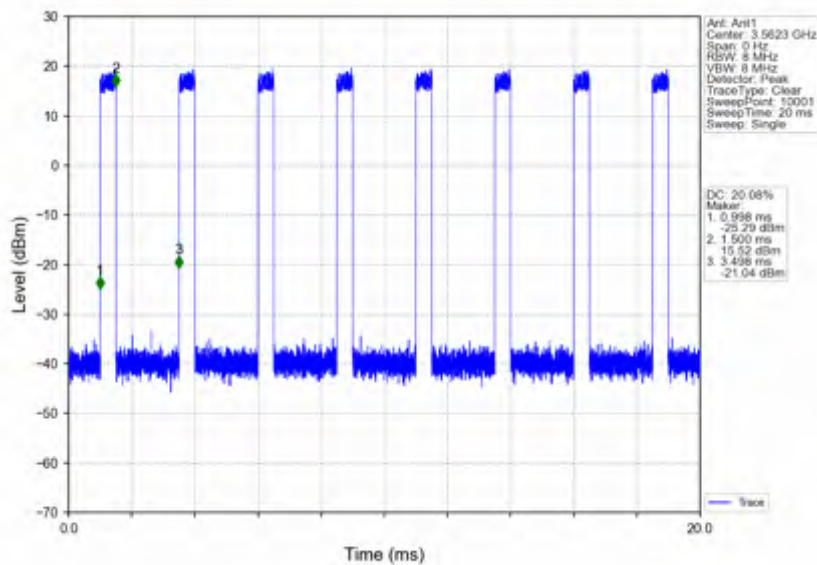
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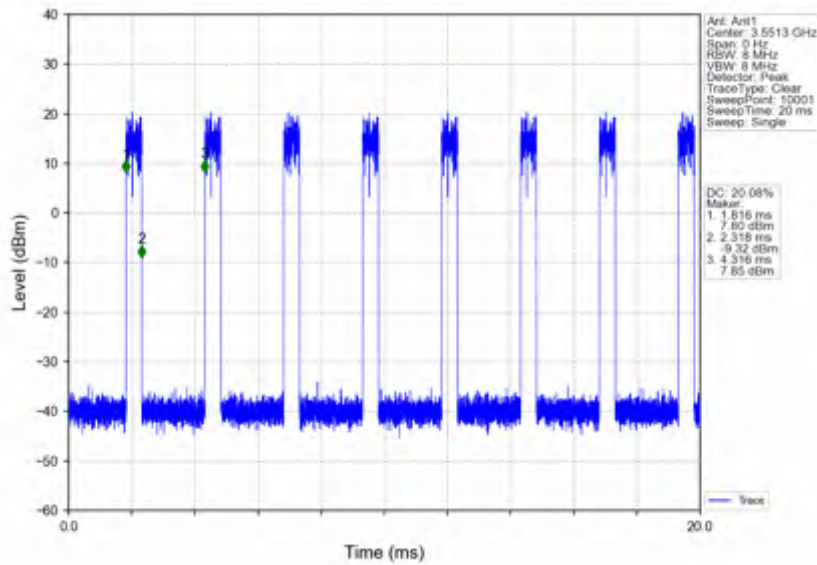
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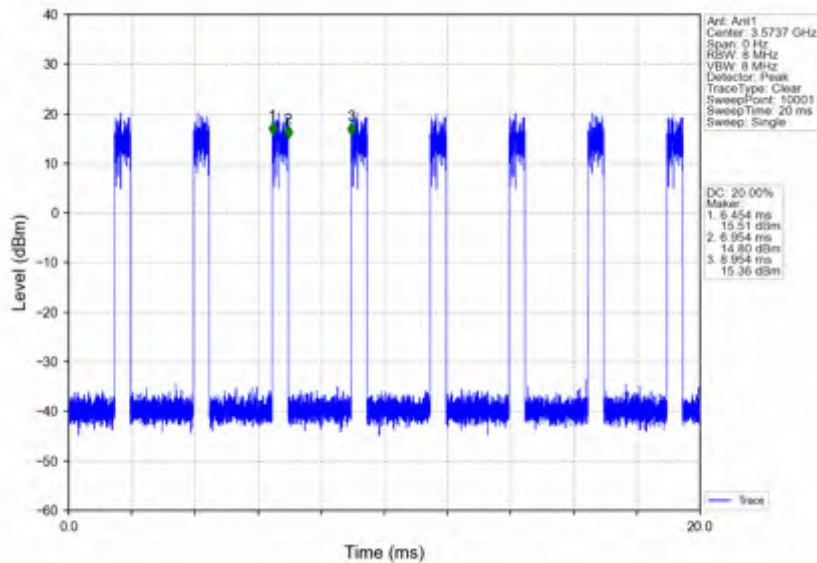
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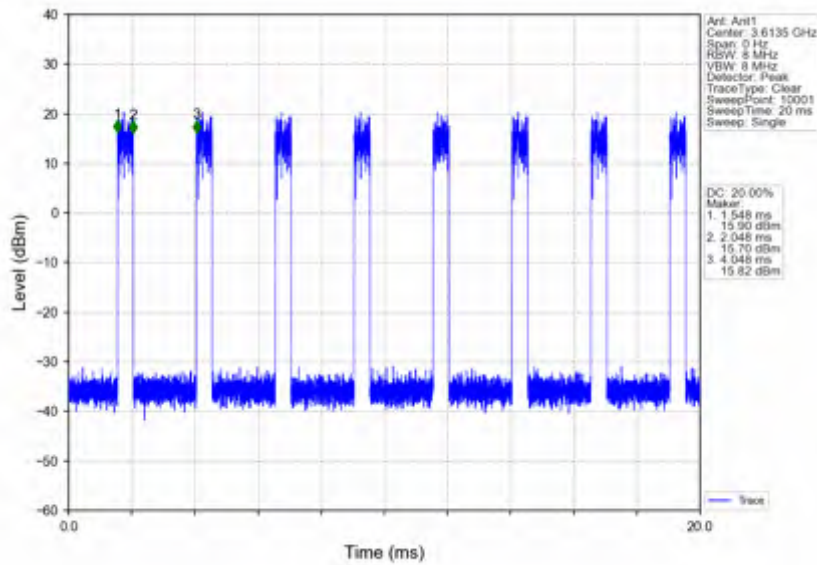
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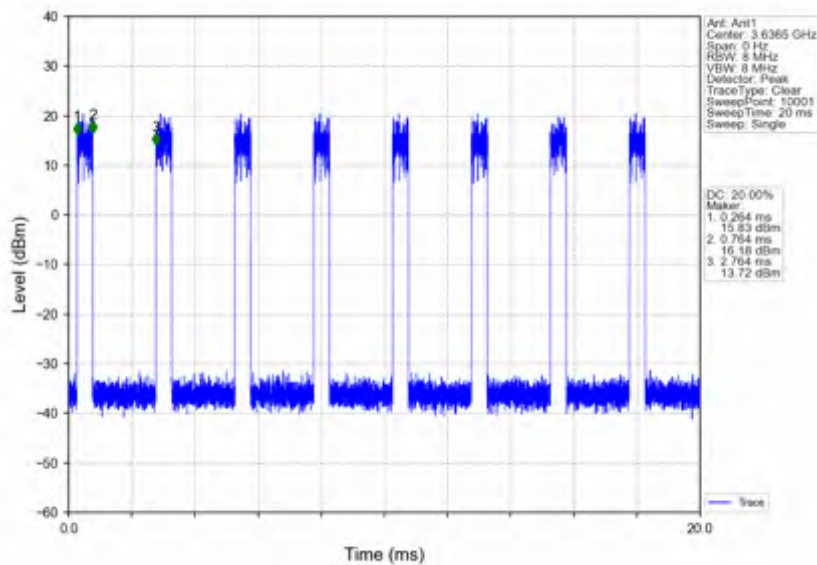
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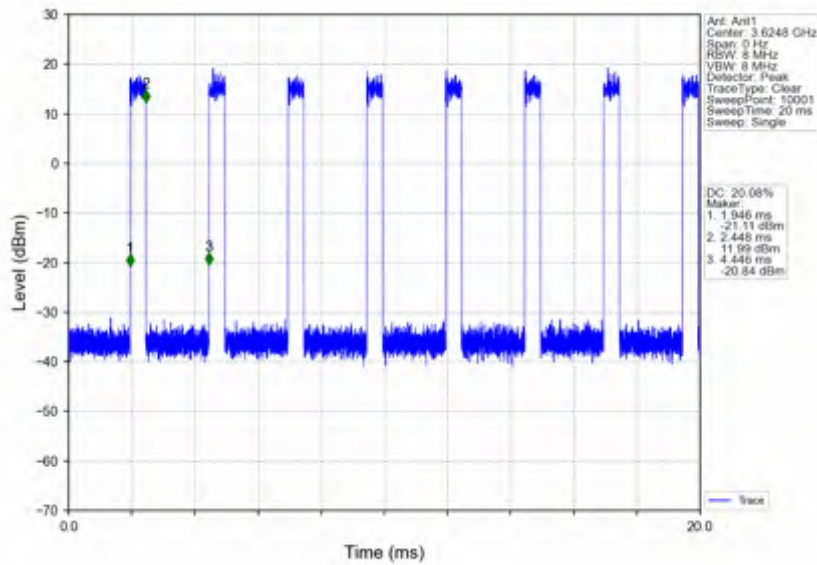


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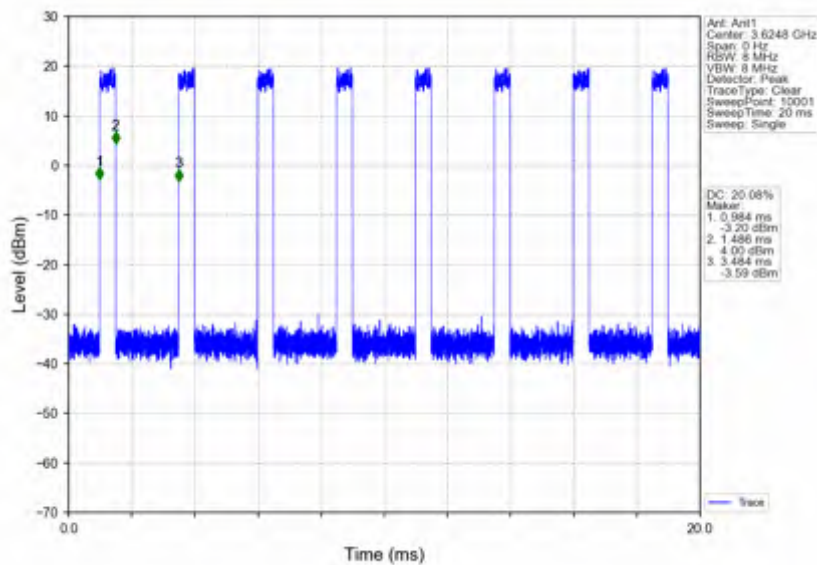
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