

Appendix A for KSCR2212002457AT-LTE-Band_48_ANT 1

1. Duty Cycle

1.1 B48_5MHz

1.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		Size	Offset					
QPSK	3552.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.02
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.002	59.98	2.22	0.01
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3697.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
16QAM	3552.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.002	5.002	60.02	2.22	0.02
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3697.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.002	59.98	2.22	0.01
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00



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		25	0	3.000	5.000	60.00	2.22	0.00
64QAM	3552.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.002	5.000	60.04	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.04
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3697.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	2.998	5.000	59.96	2.22	0.04
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
256QAM	3552.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.04
		12	0	3.000	5.000	60.00	2.22	0.00
			6	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	2.998	5.000	59.96	2.22	0.04
			6	2.998	5.000	59.96	2.22	0.02
			13	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
	3697.5	1	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			24	3.000	5.000	60.00	2.22	0.00
		12	0	3.000	5.000	60.00	2.22	0.00
			6	2.998	5.000	59.96	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
		25	0	2.998	5.000	59.96	2.22	0.02

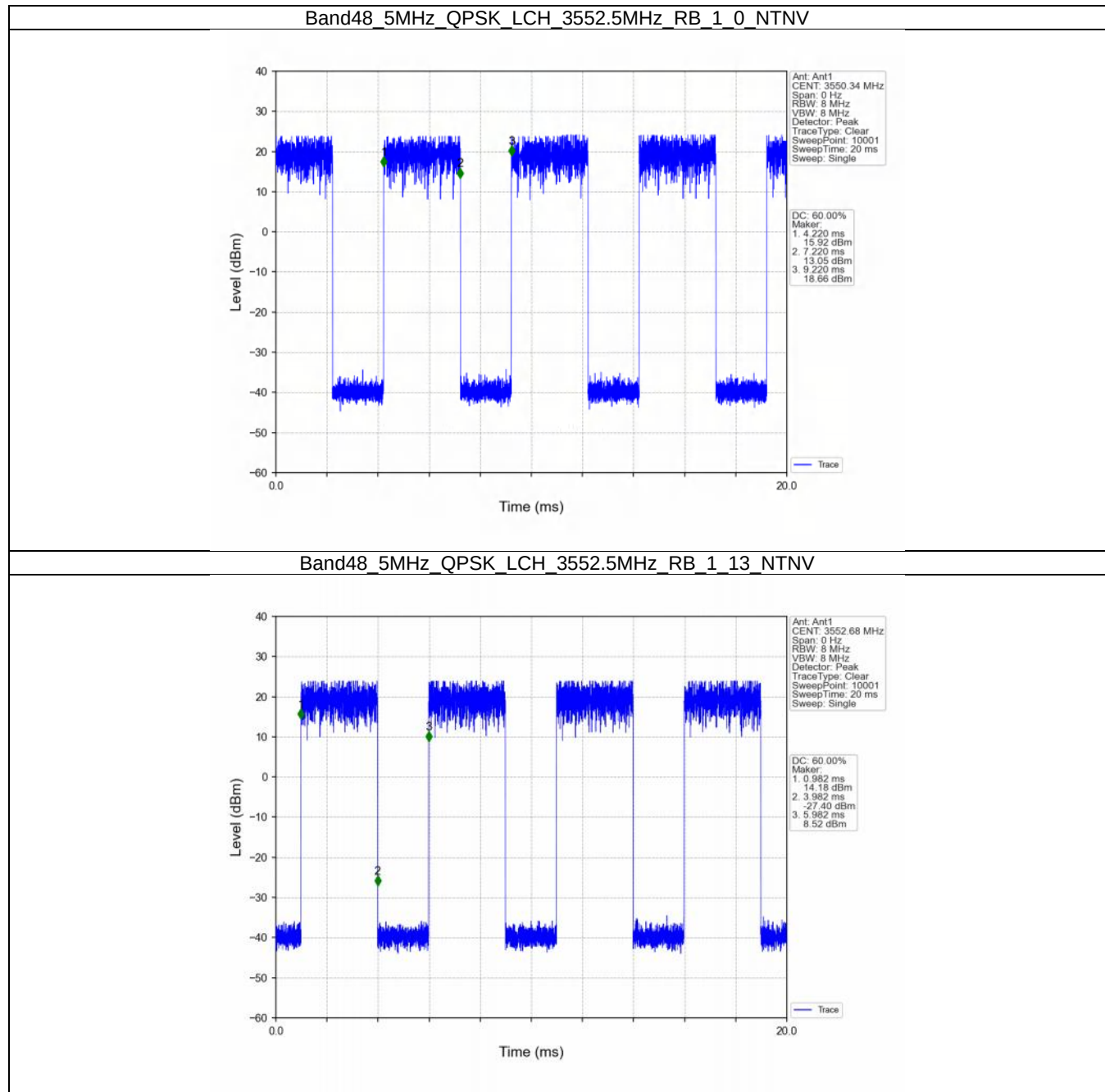


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1.1.2 Test Graph

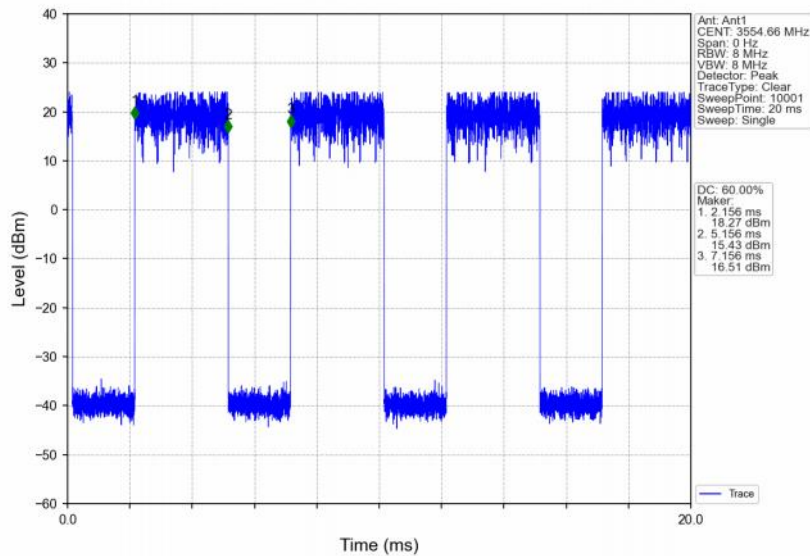


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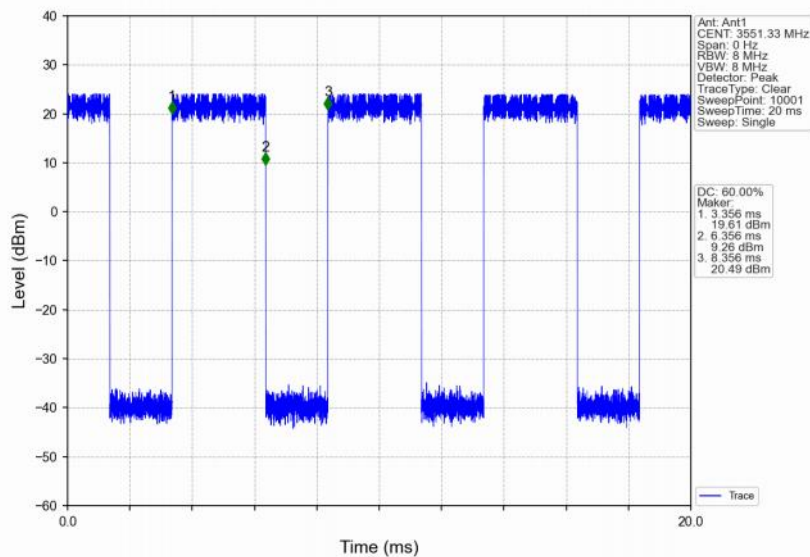
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_24_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_0_NTNV

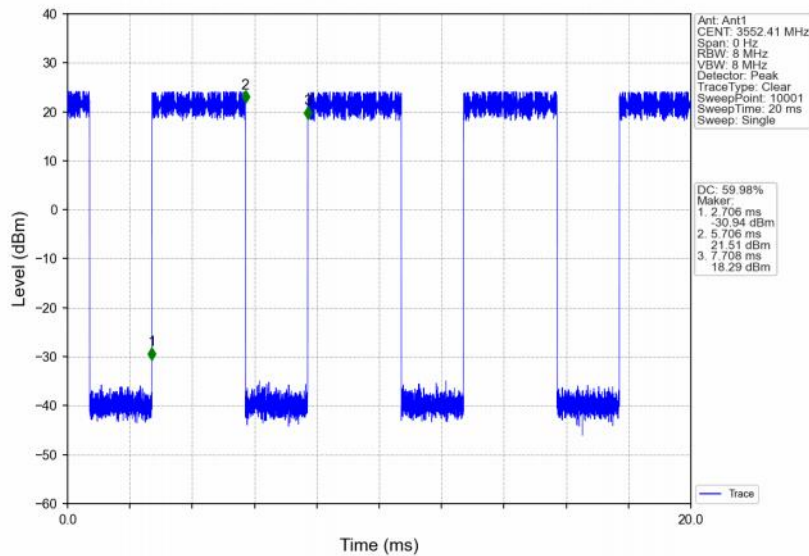


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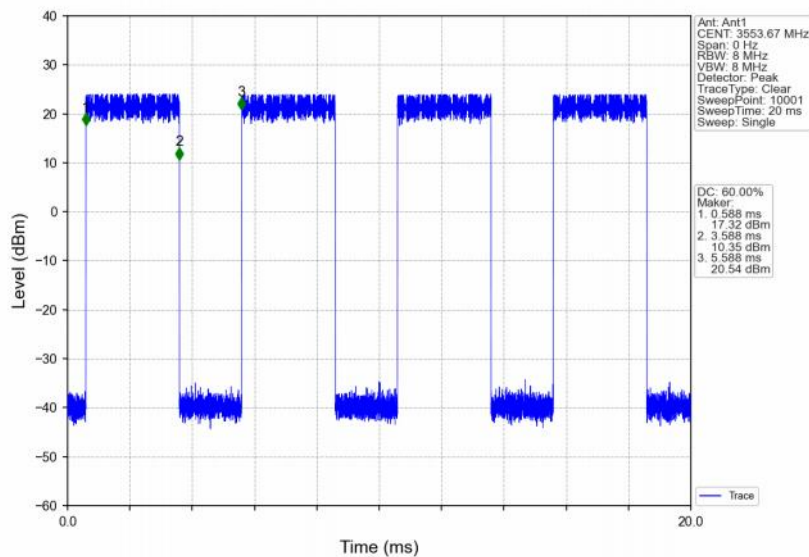
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_6_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_13_NTNV

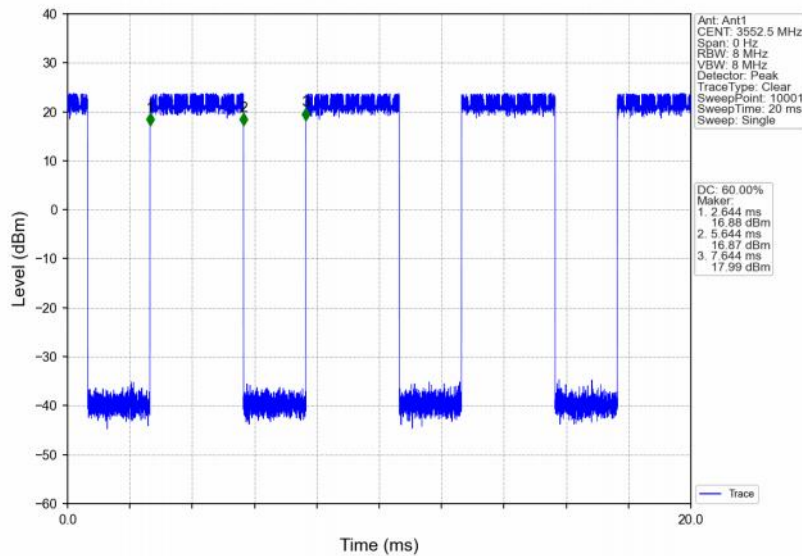


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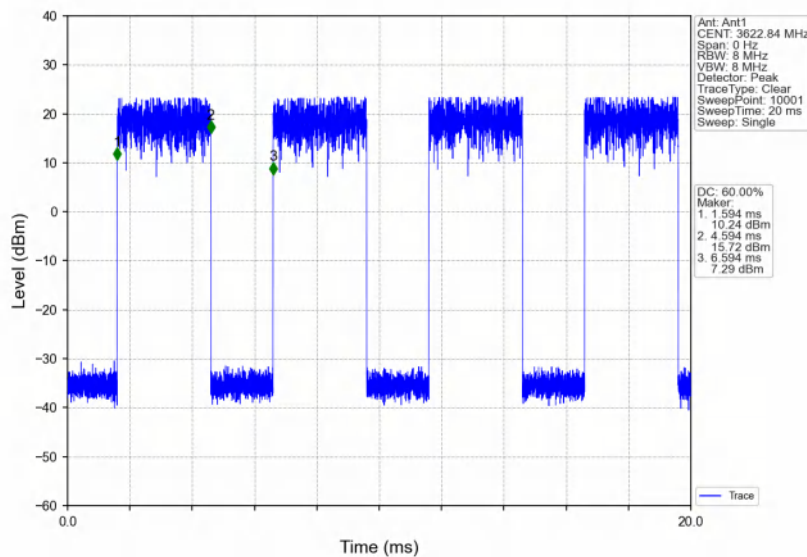
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV

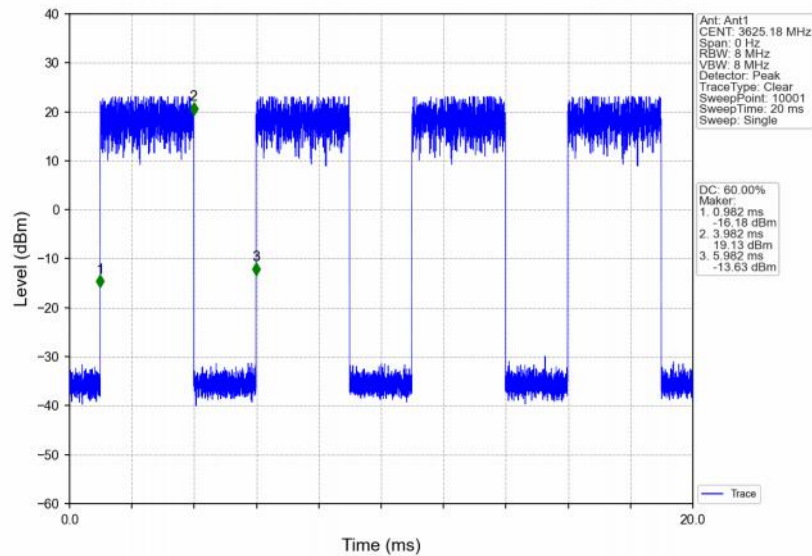


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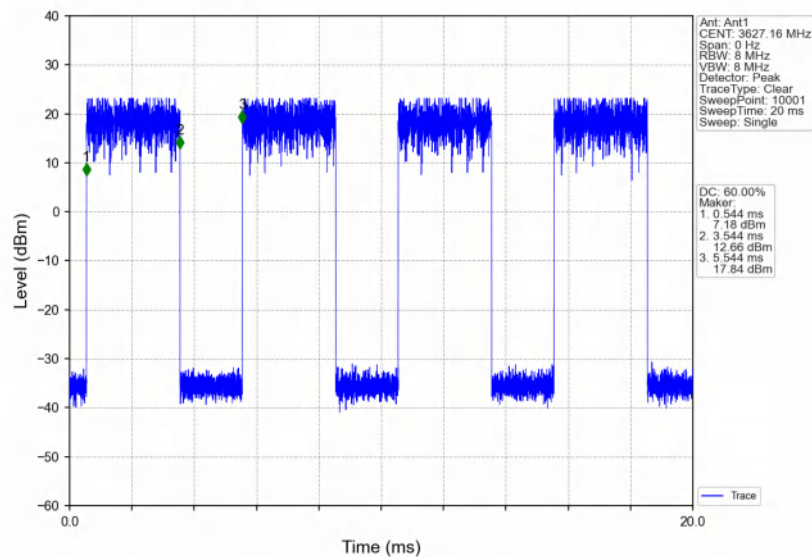
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Band48_5MHz_QPSK_MCH_3625MHz_RB_1_13_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_1_24_NTNV

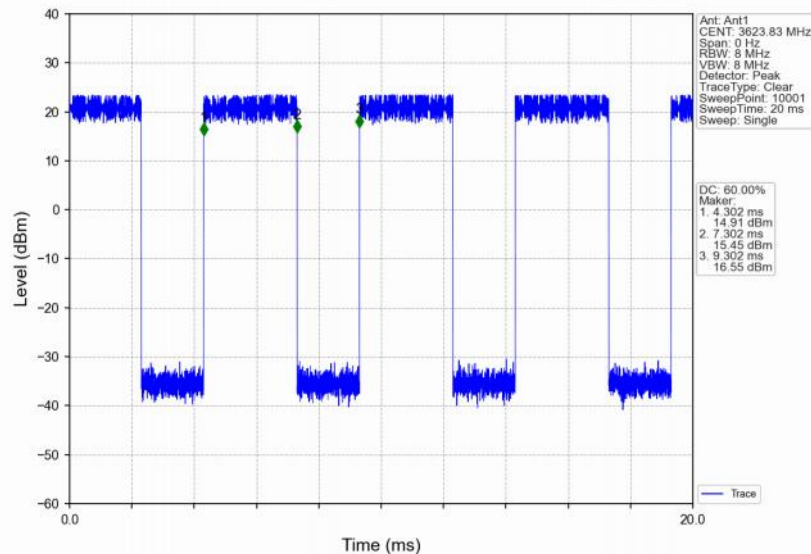


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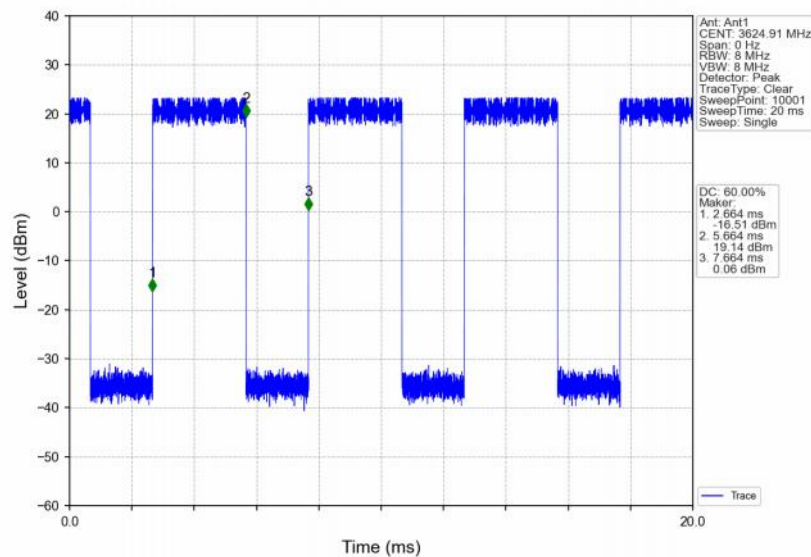
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Band48_5MHz_QPSK_MCH_3625MHz_RB_12_6_NTNV

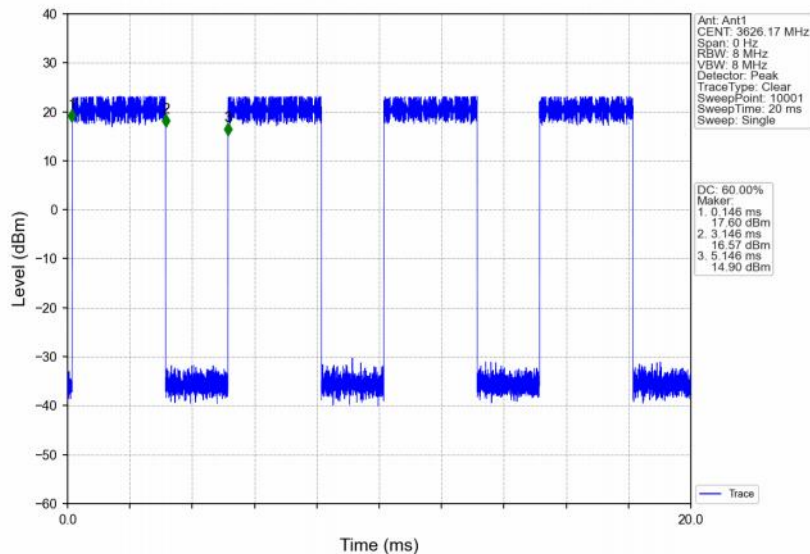


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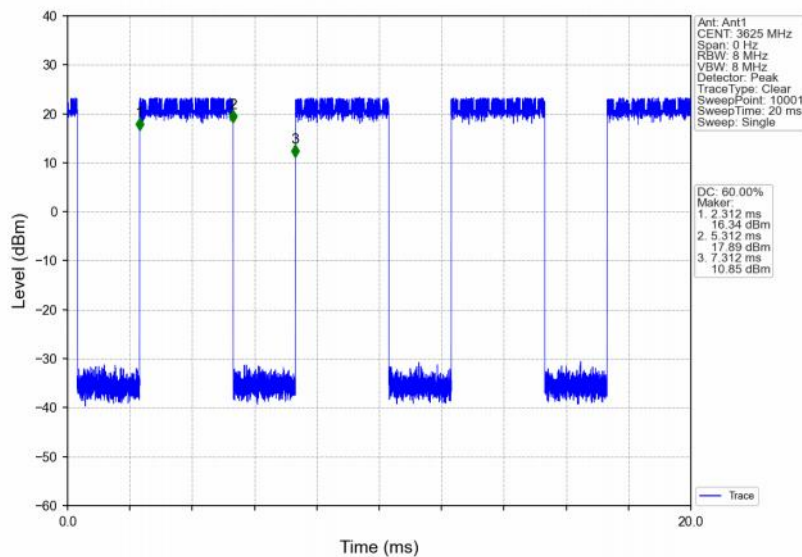
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Band48_5MHz_QPSK_MCH_3625MHz_RB_12_13_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_25_0_NTNV

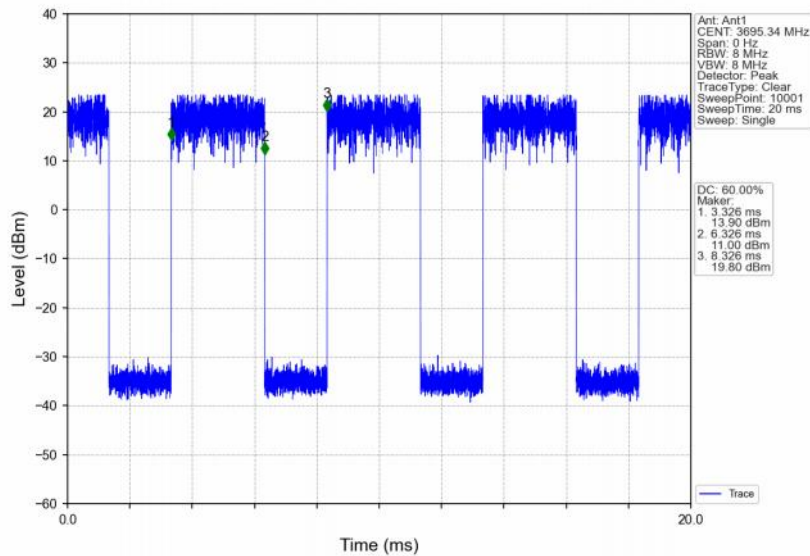


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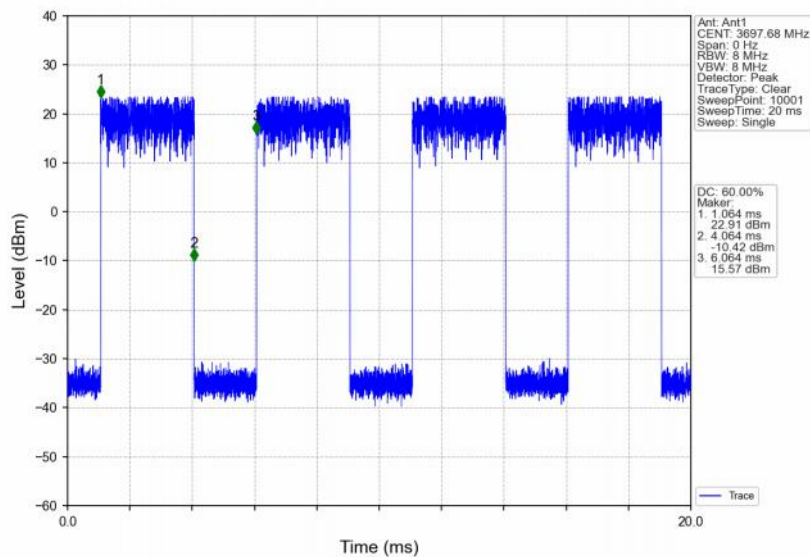
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_13_NTNV

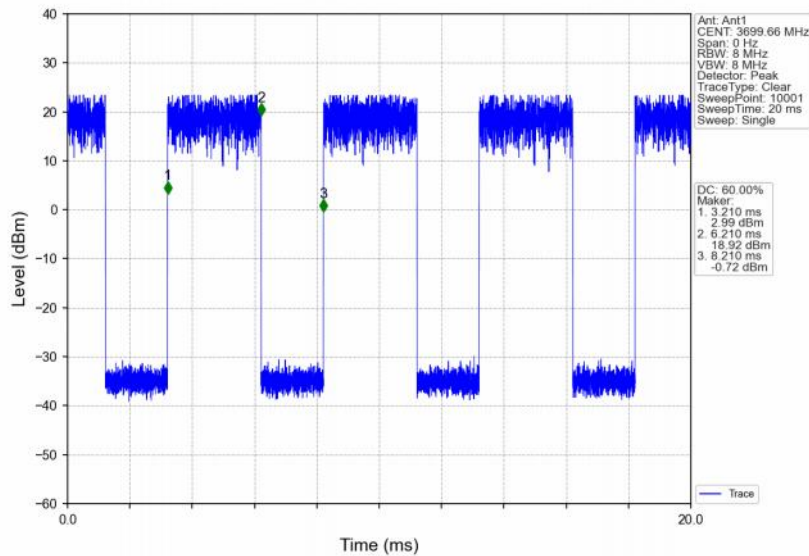


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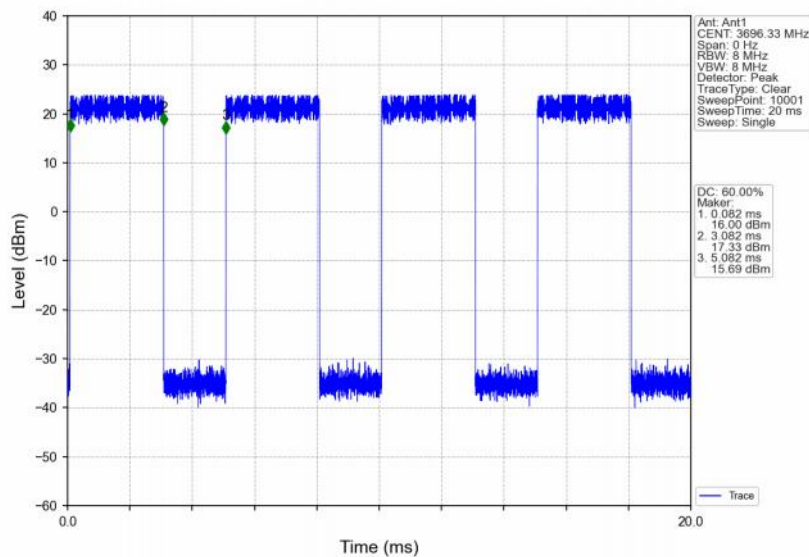
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_0_NTNV

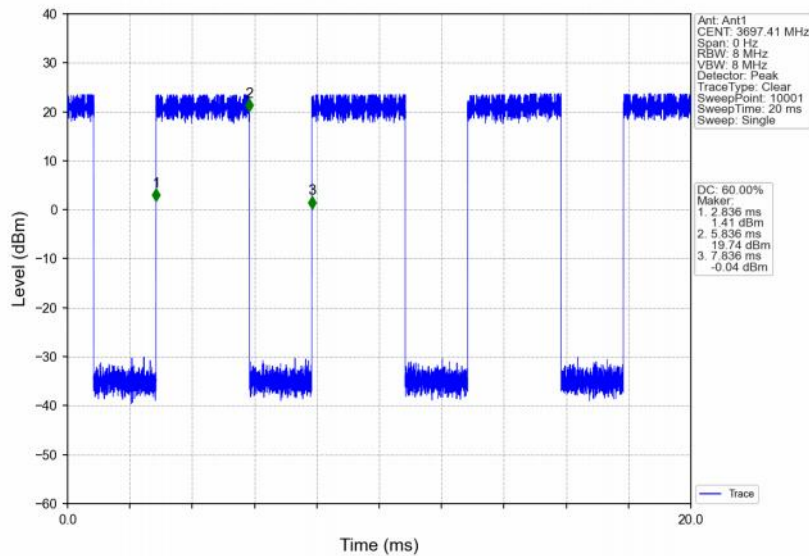


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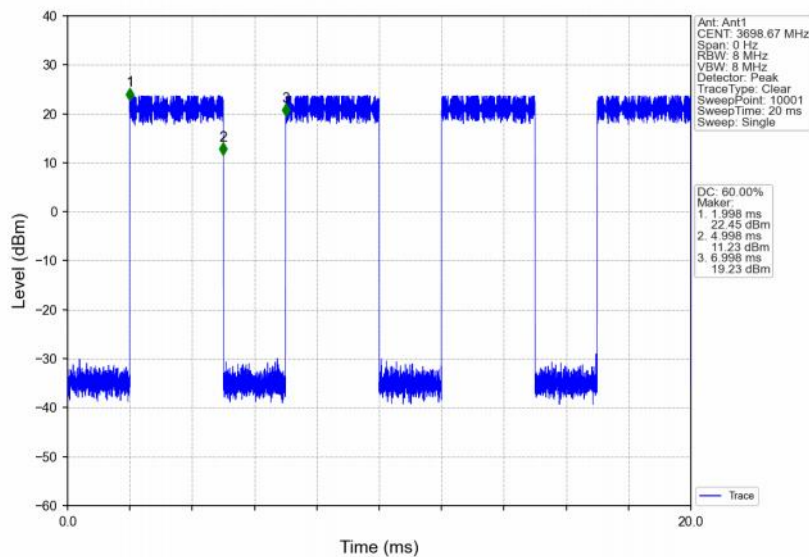
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_6_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_13_NTNV

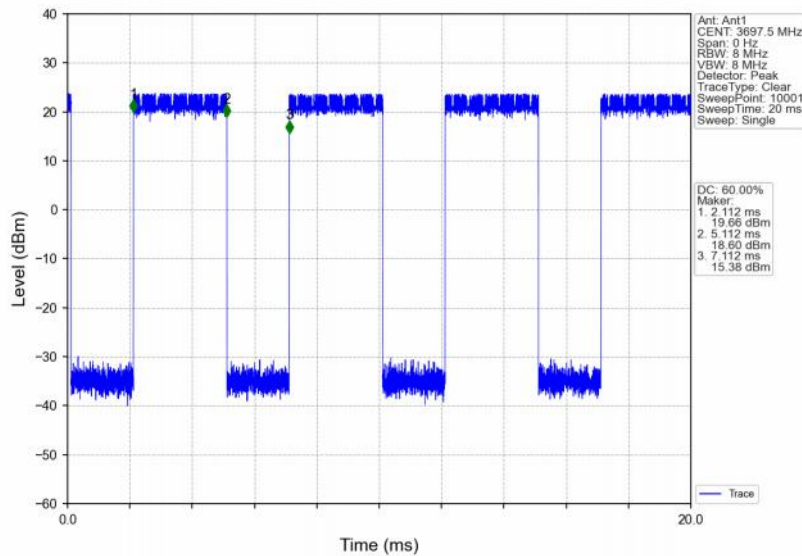


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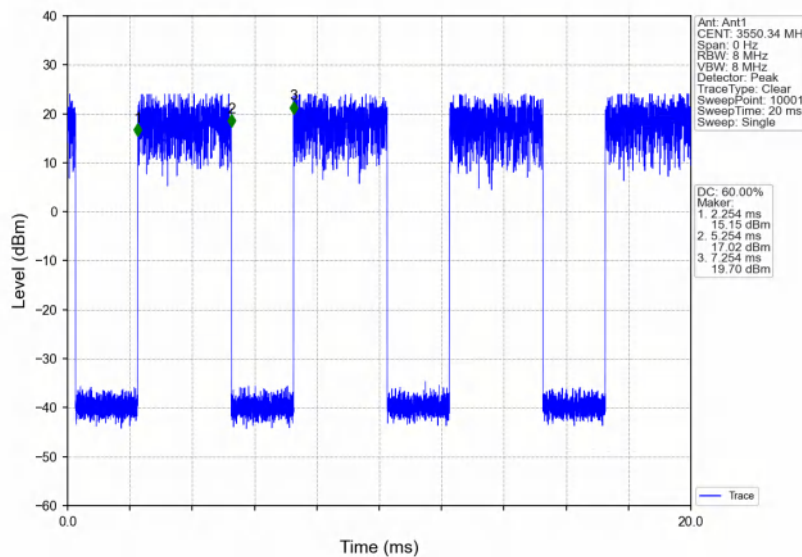
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_0_NTNV

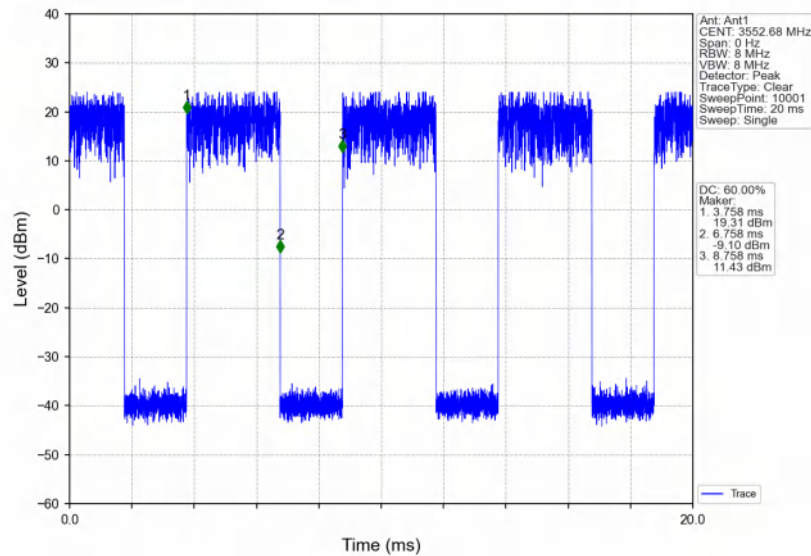


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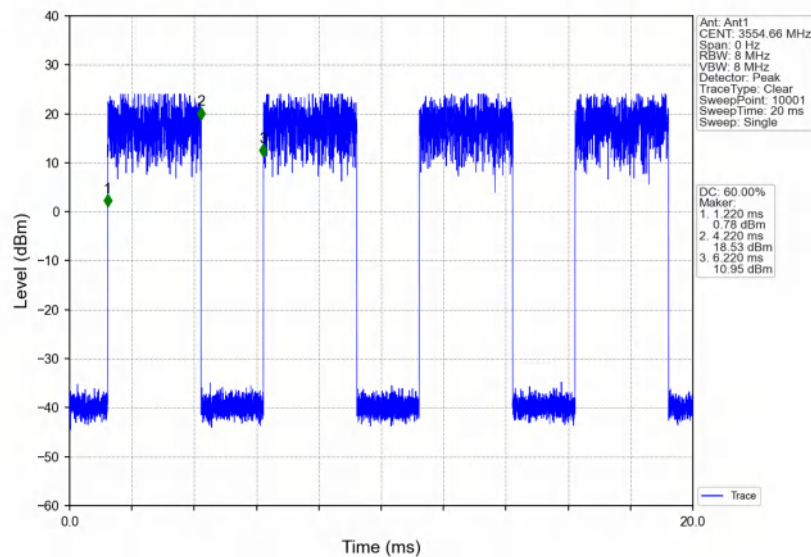
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_13_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_24_NTNV

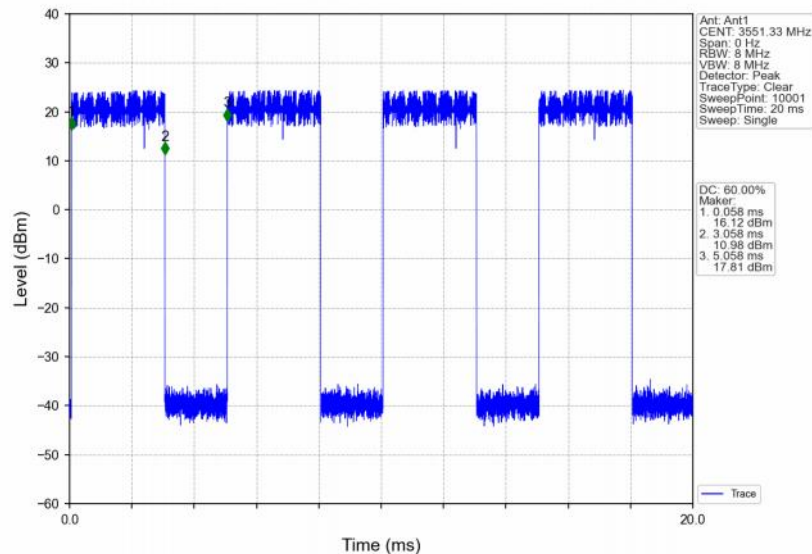


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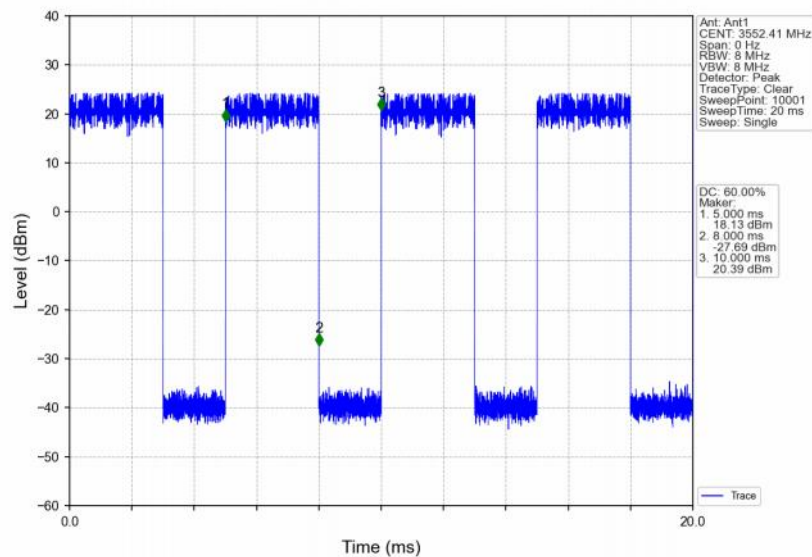
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_12_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_12_6_NTNV

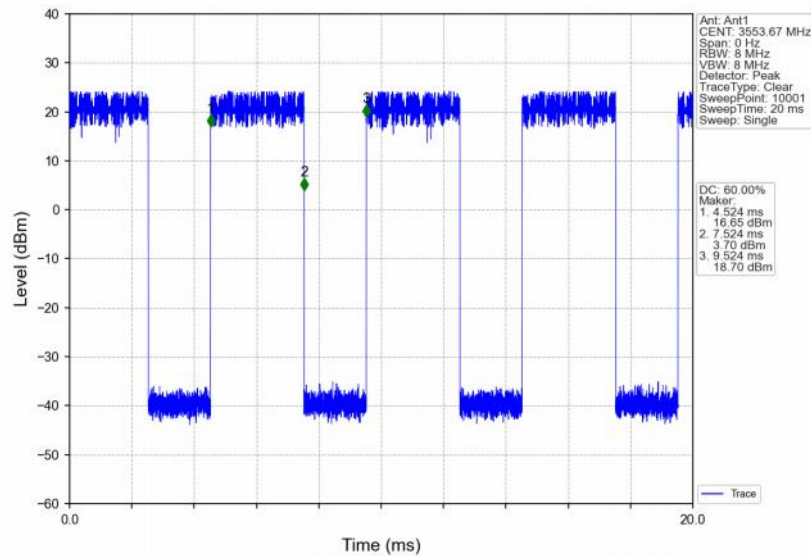


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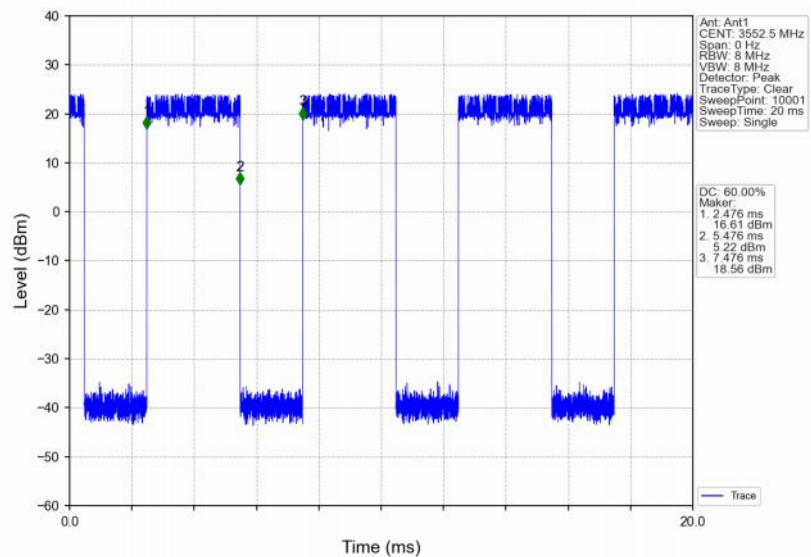
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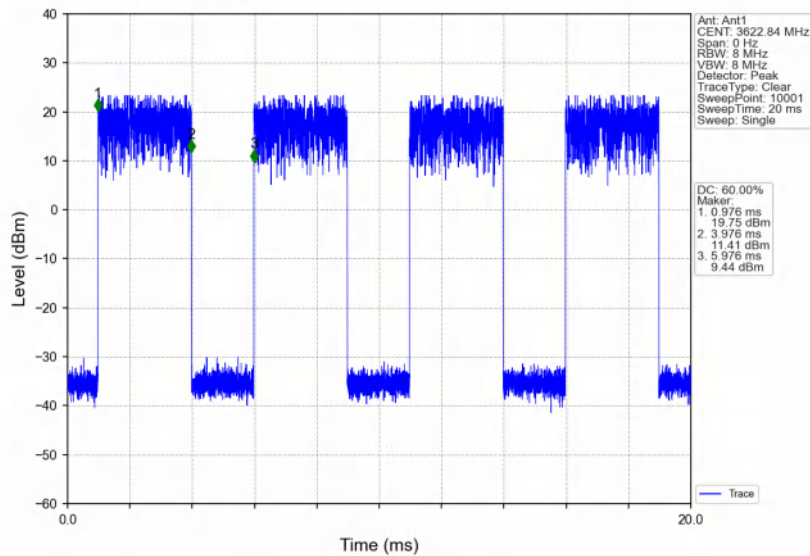


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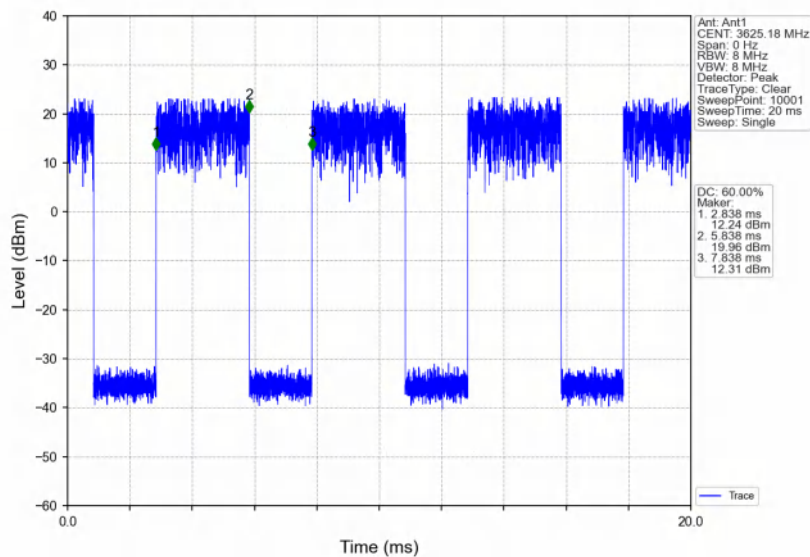
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Band48_5MHz_16QAM_MCH_3625MHz_RB_1_0_NTNV



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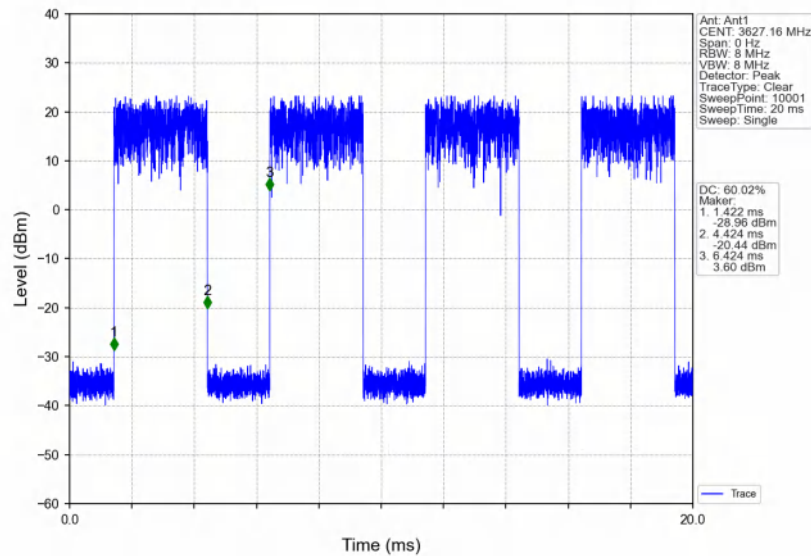


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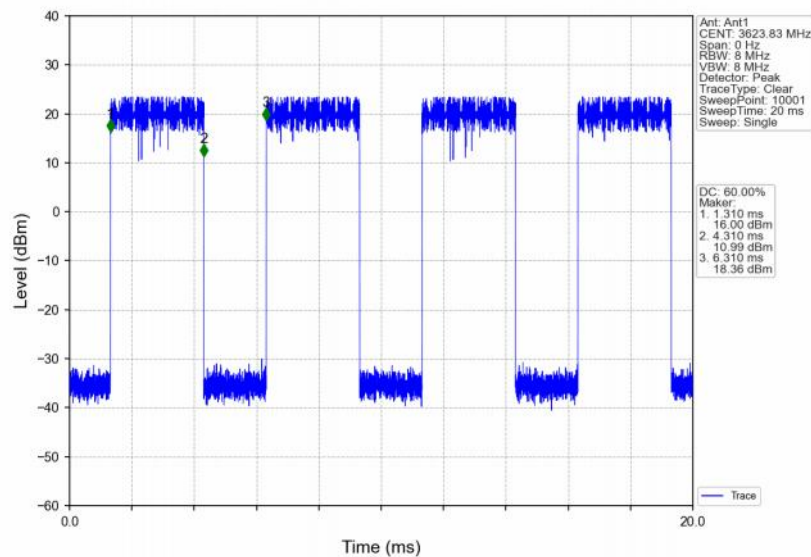
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Band48_5MHz_16QAM_MCH_3625MHz_RB_1_24_NTNV



Band48_5MHz_16QAM_MCH_3625MHz_RB_12_0_NTNV

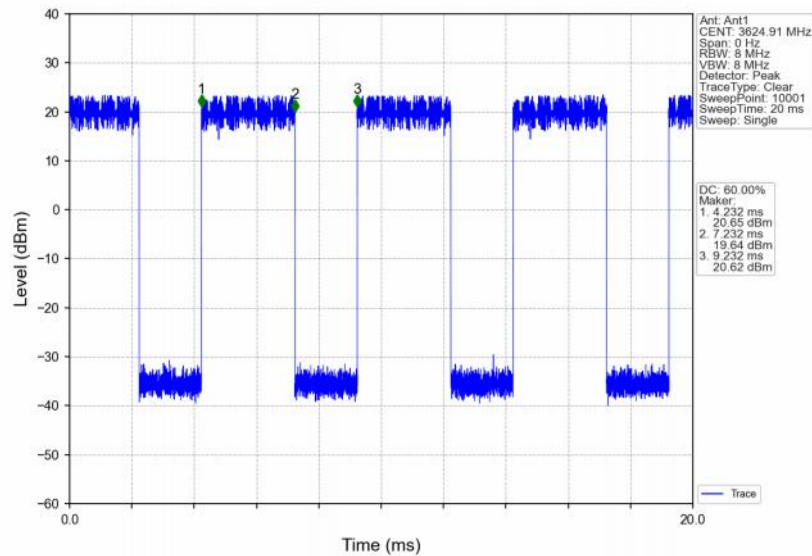


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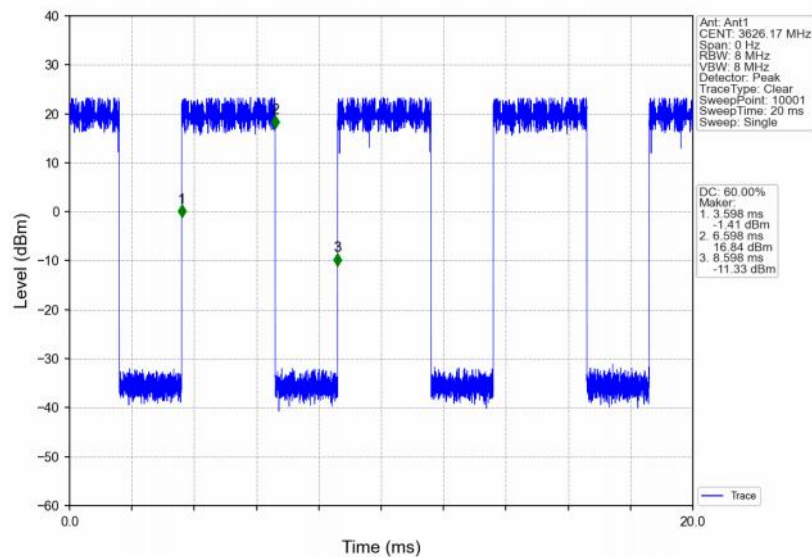
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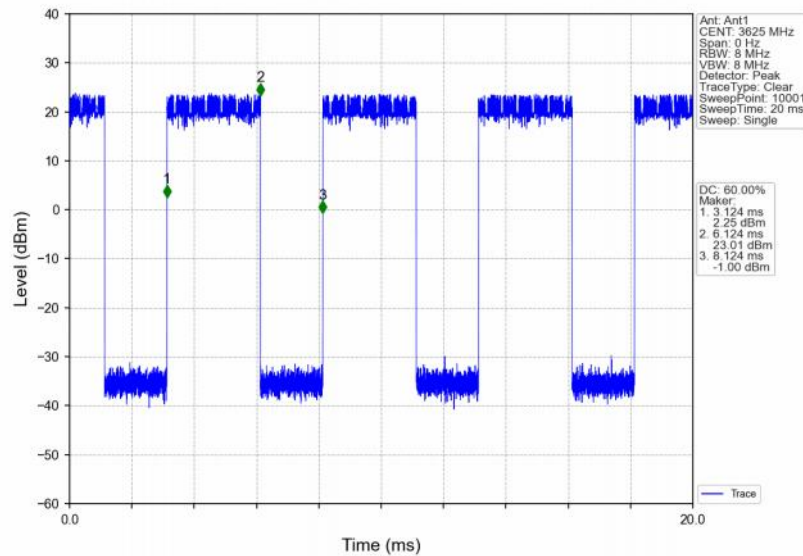


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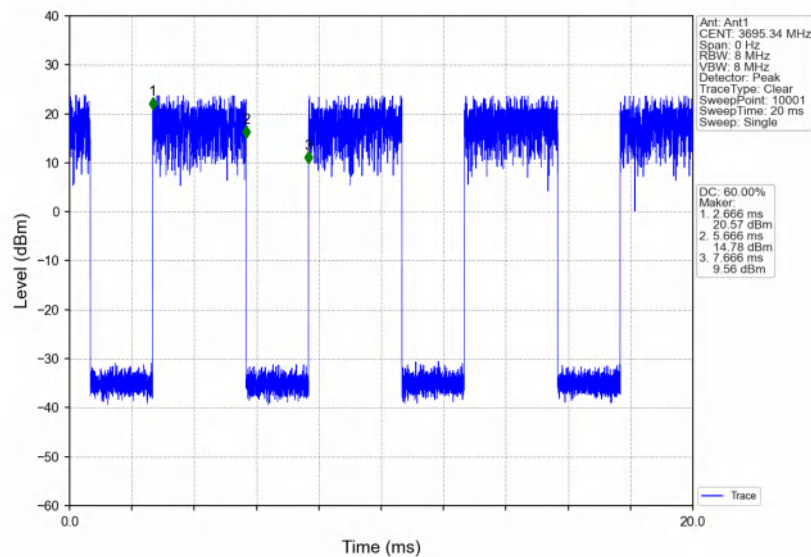
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_1_0_NTNV

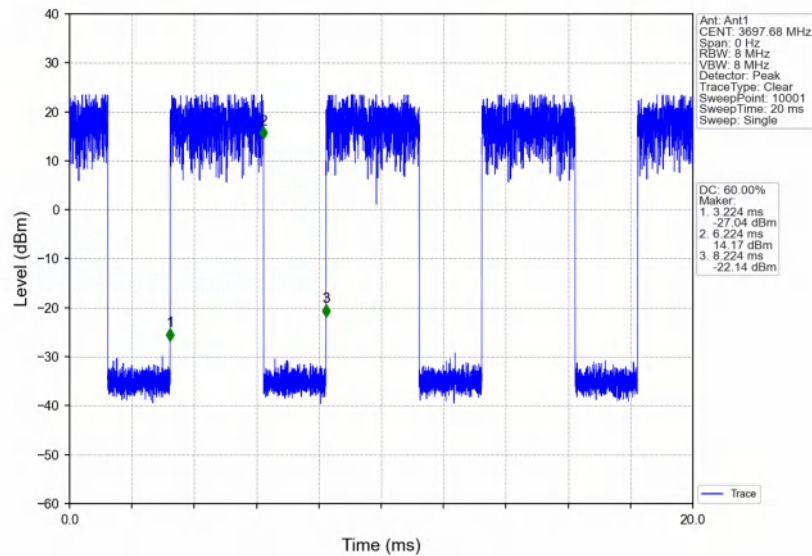


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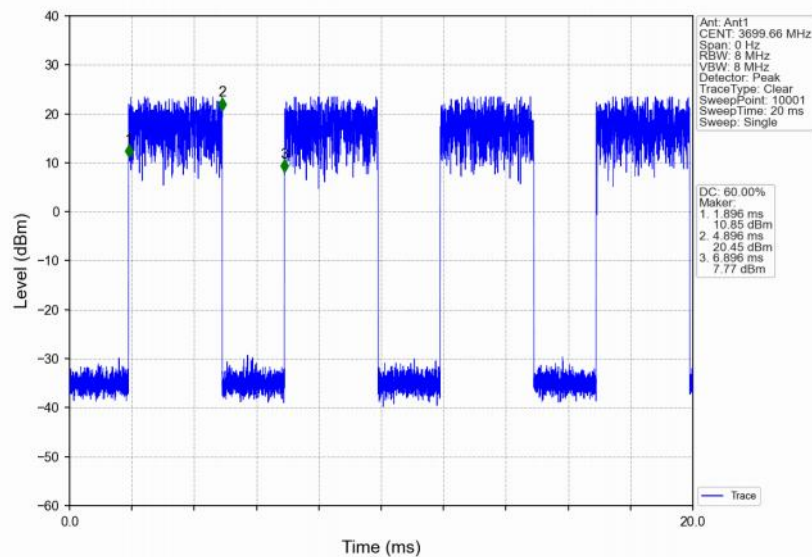
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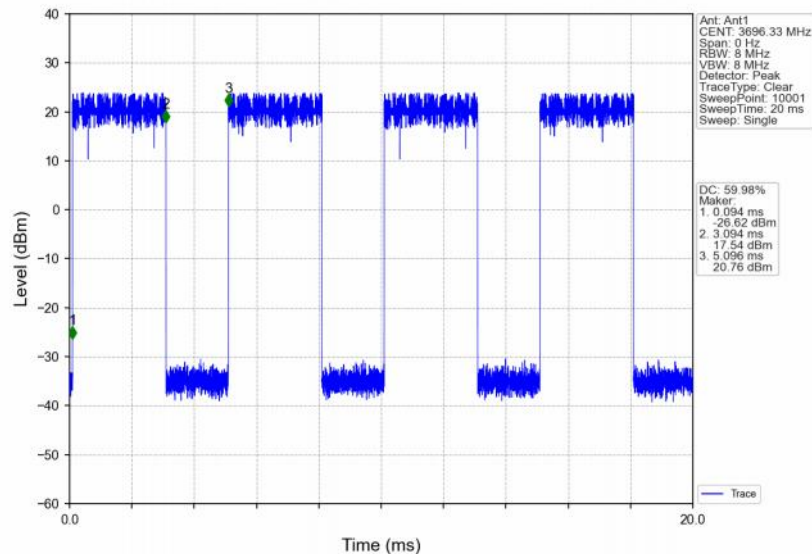


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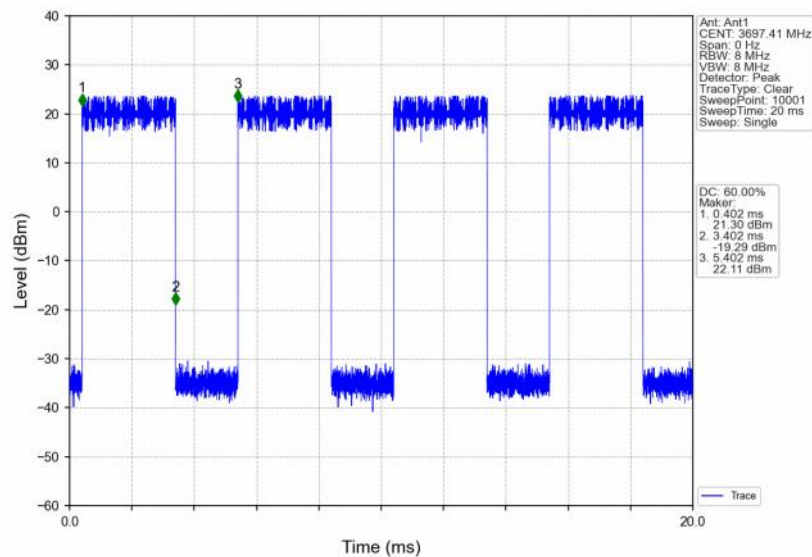
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_12_6_NTNV

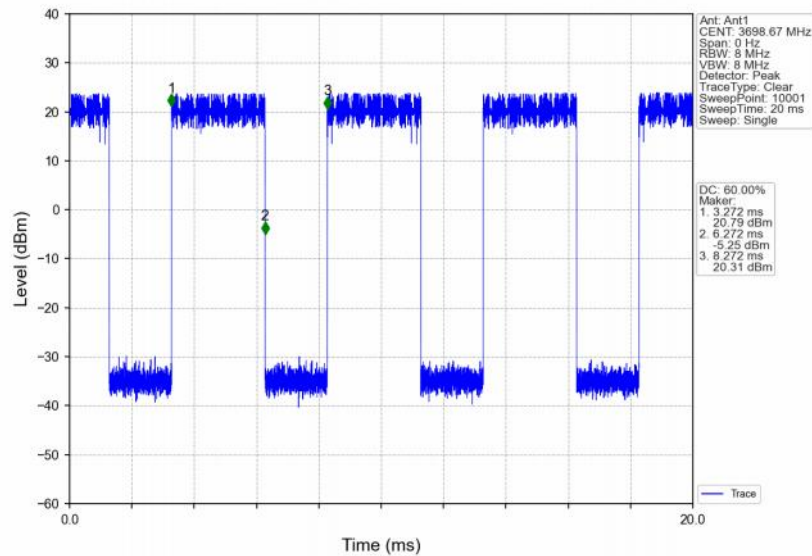


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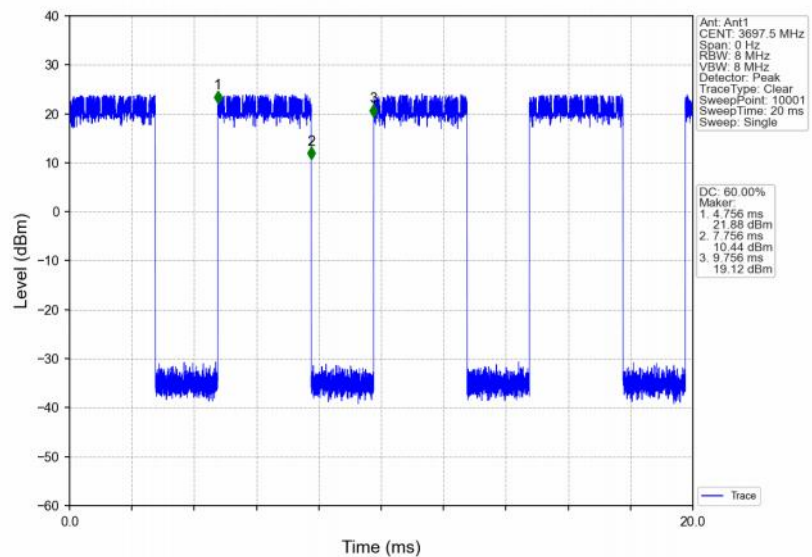
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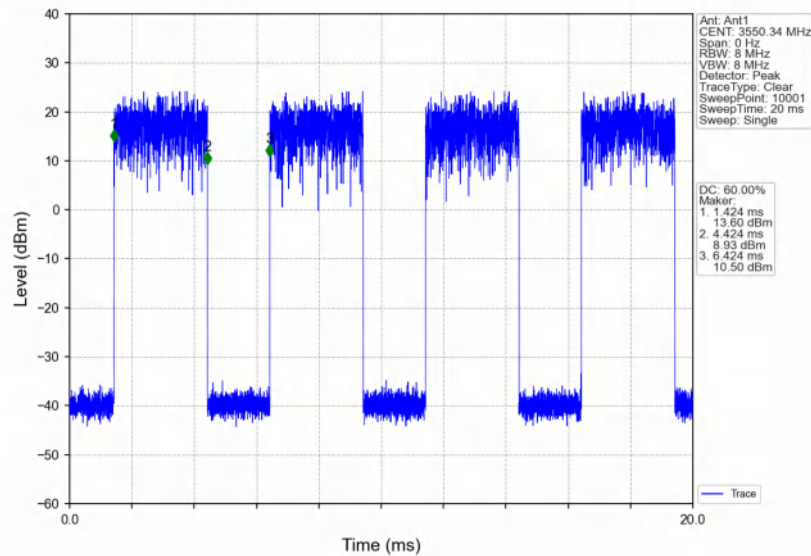


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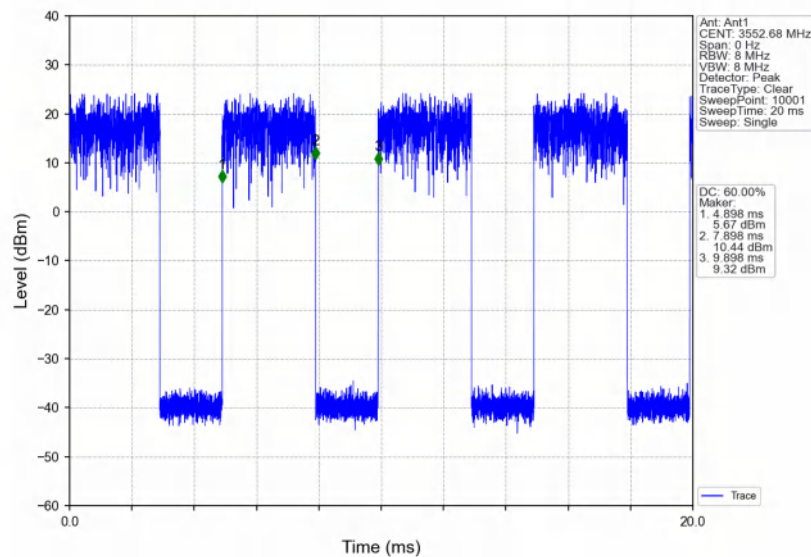
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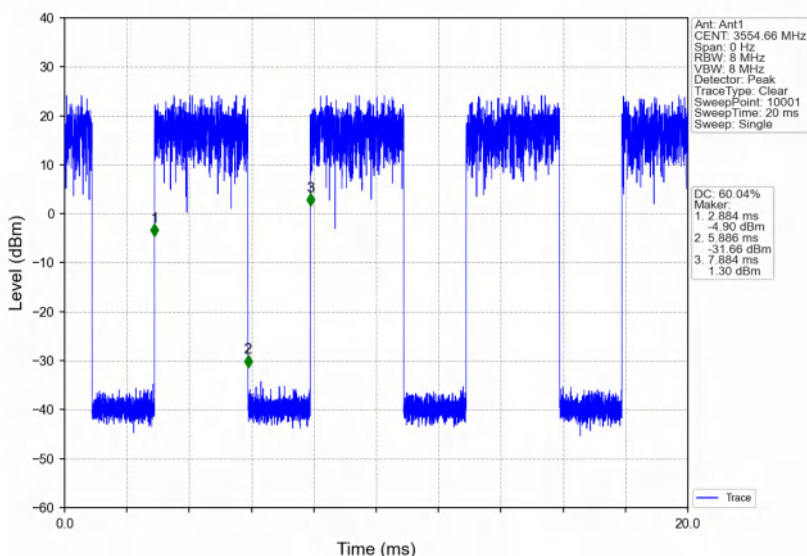


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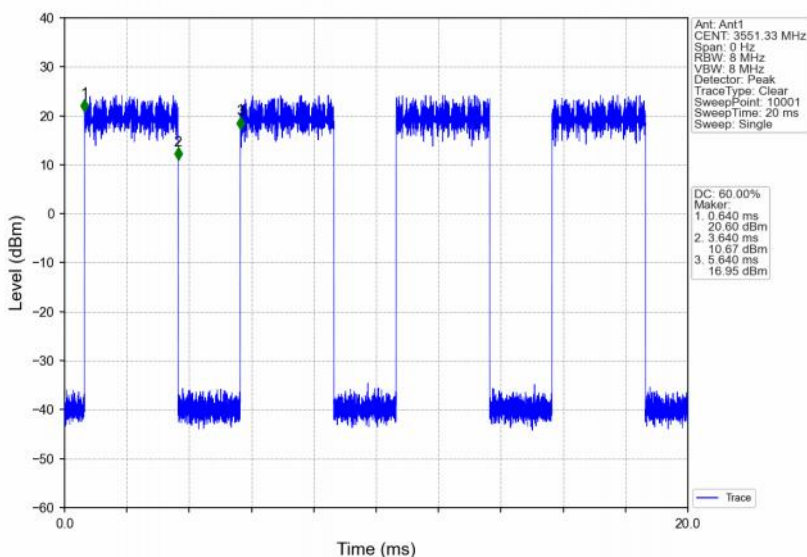
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_1_24_NTNV



Band48_5MHz_64QAM_LCH_3552.5MHz_RB_12_0_NTNV

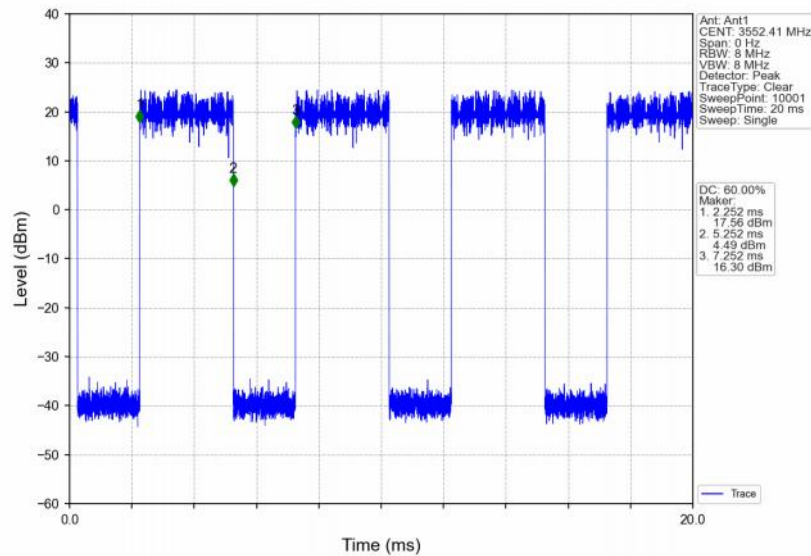


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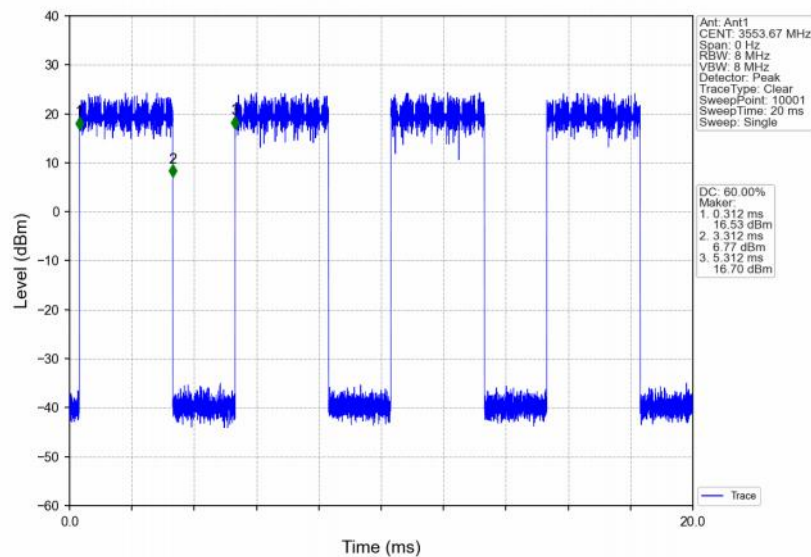
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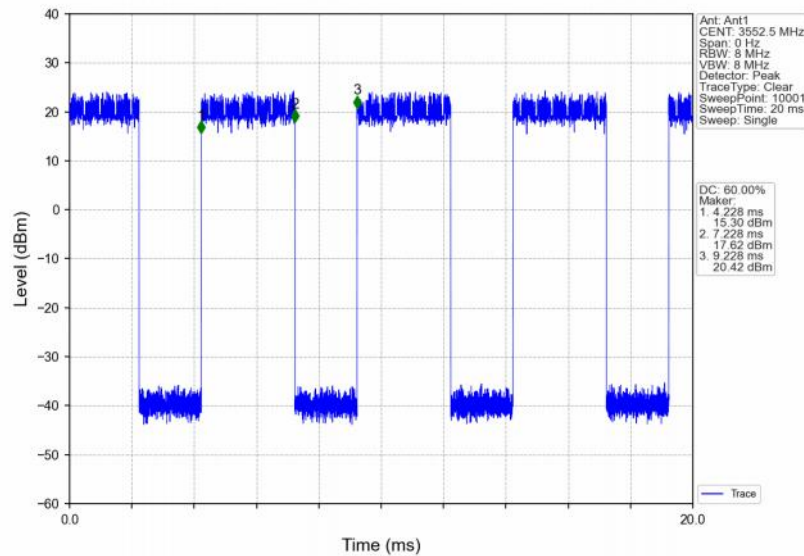


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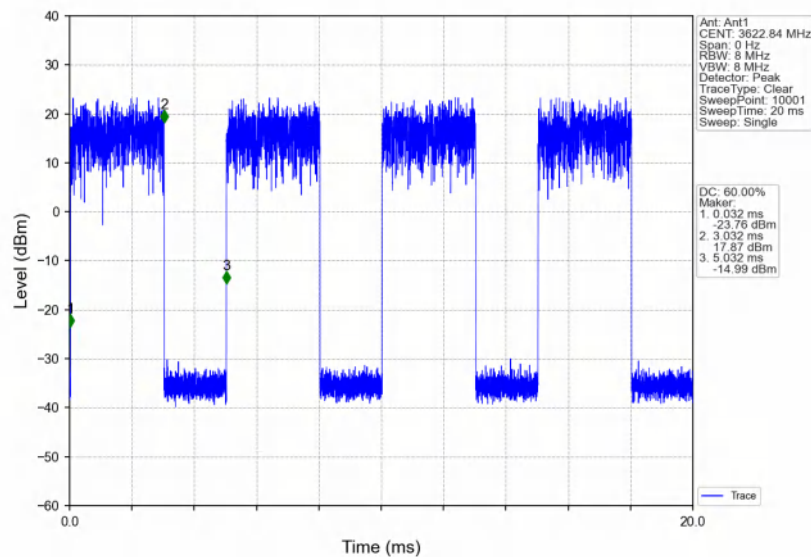
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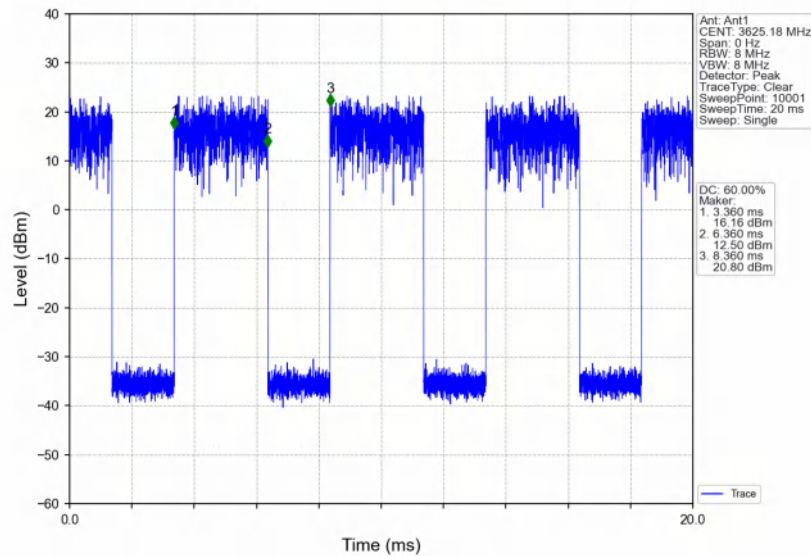


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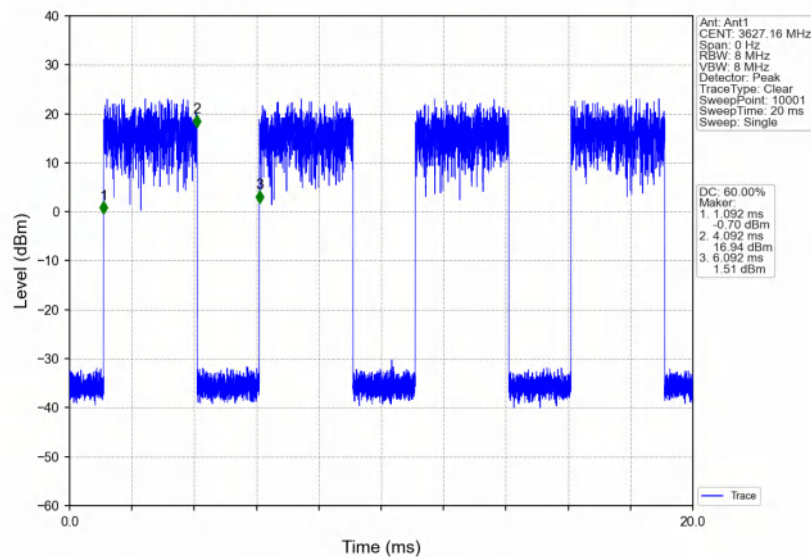
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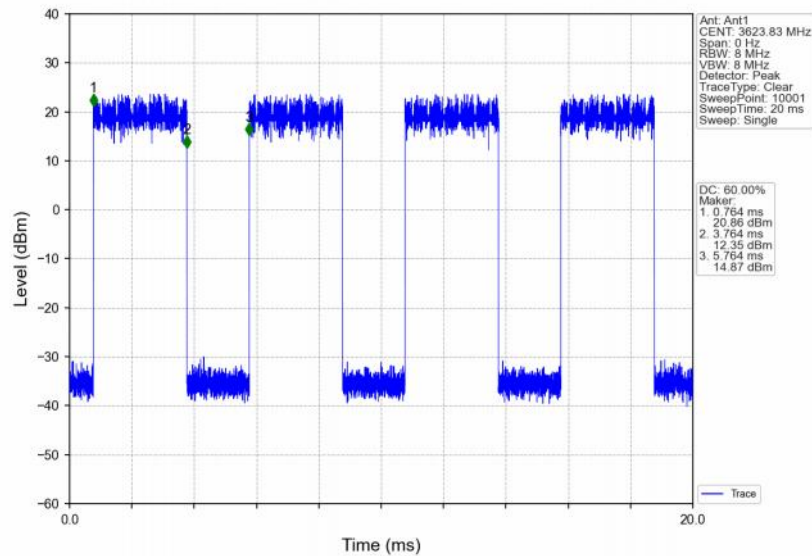


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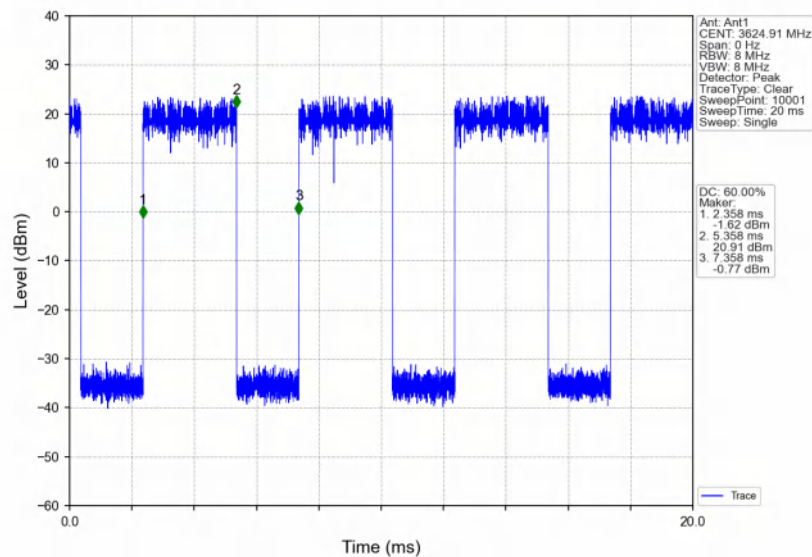
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Band48_5MHz_64QAM_MCH_3625MHz_RB_12_0_NTNV



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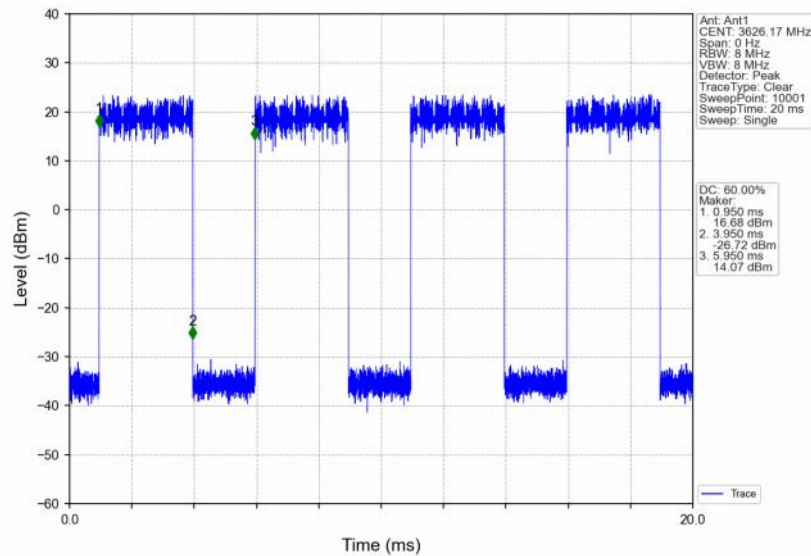


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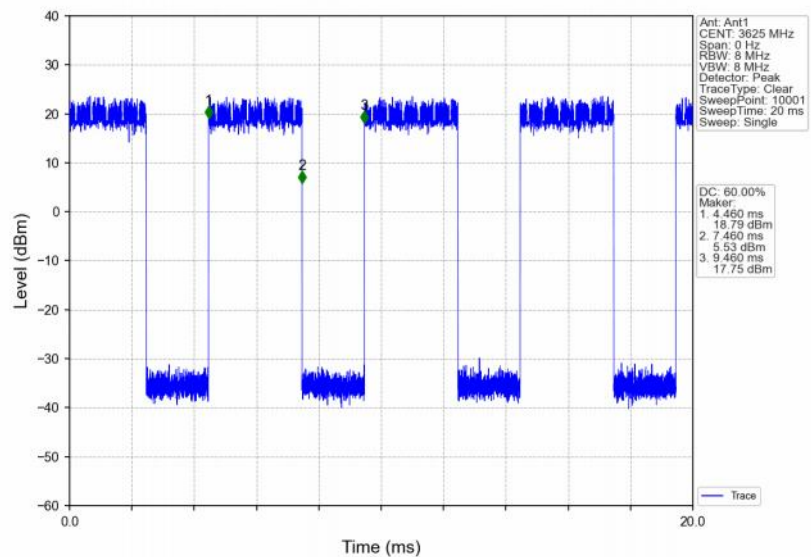
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Band48_5MHz_64QAM_MCH_3625MHz_RB_12_13_NTNV



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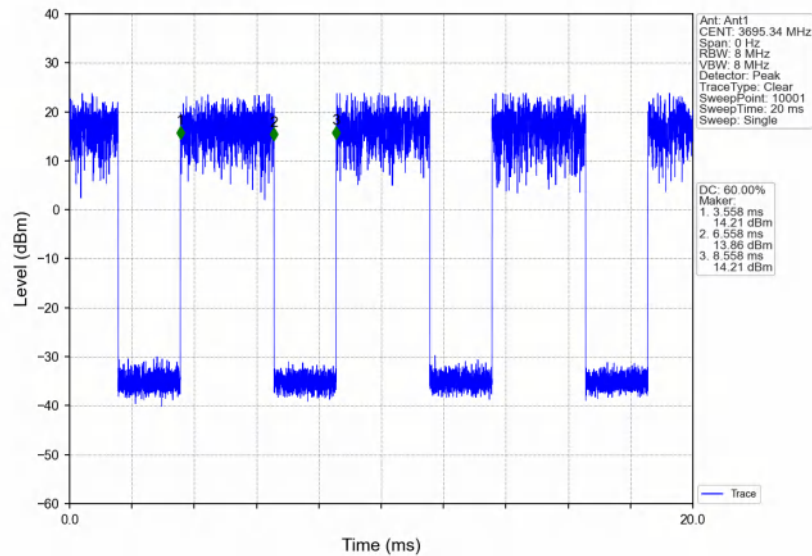


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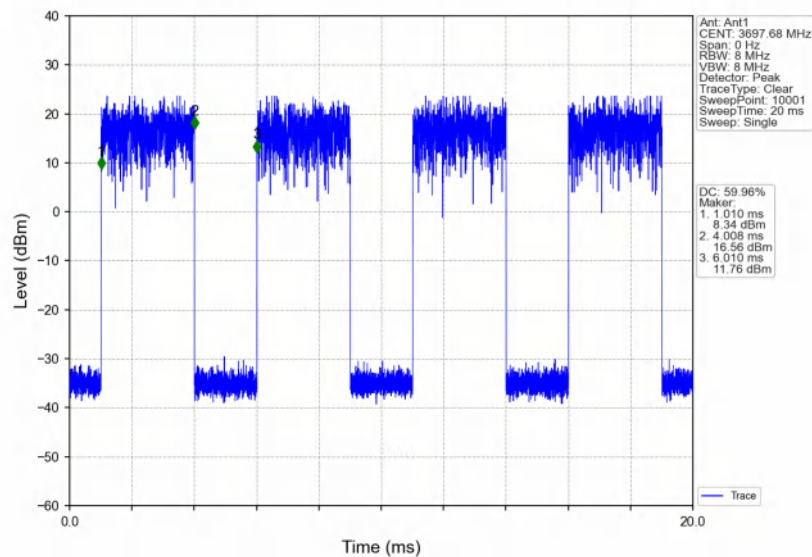
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_1_0_NTNV



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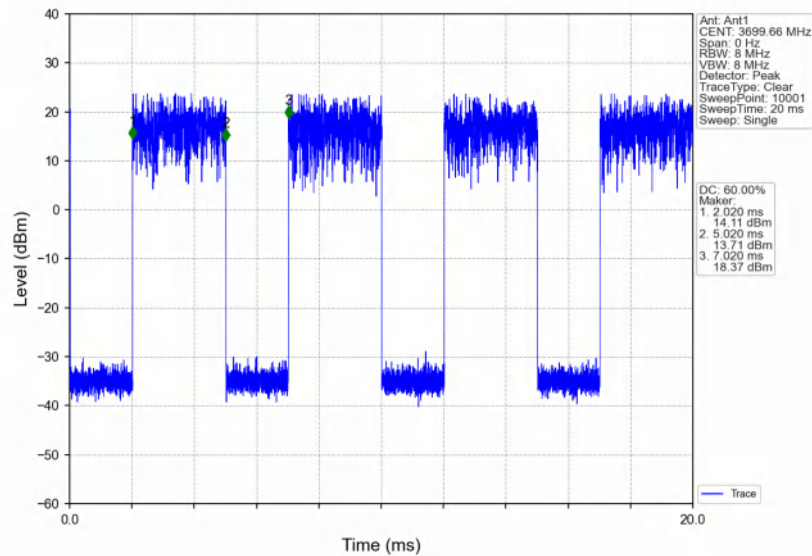


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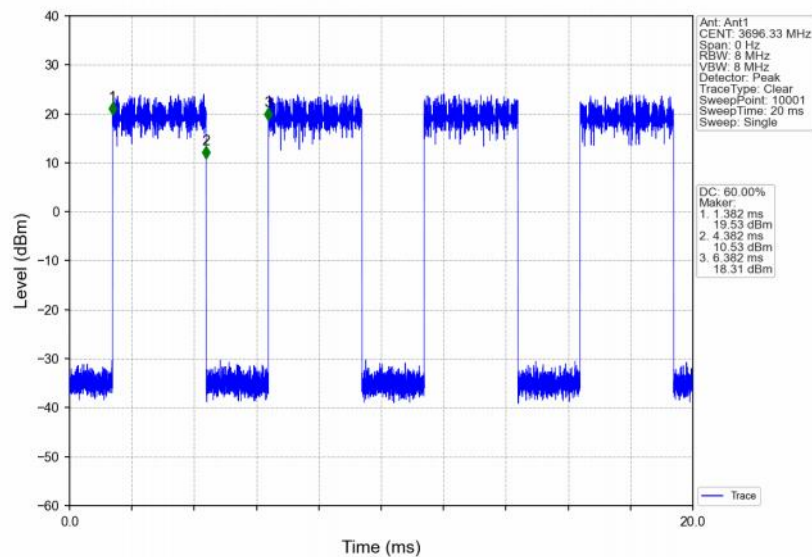
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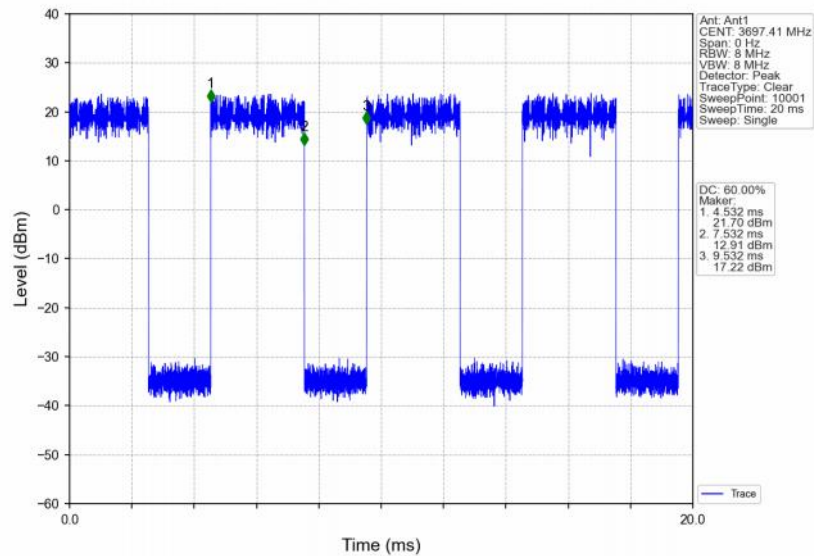


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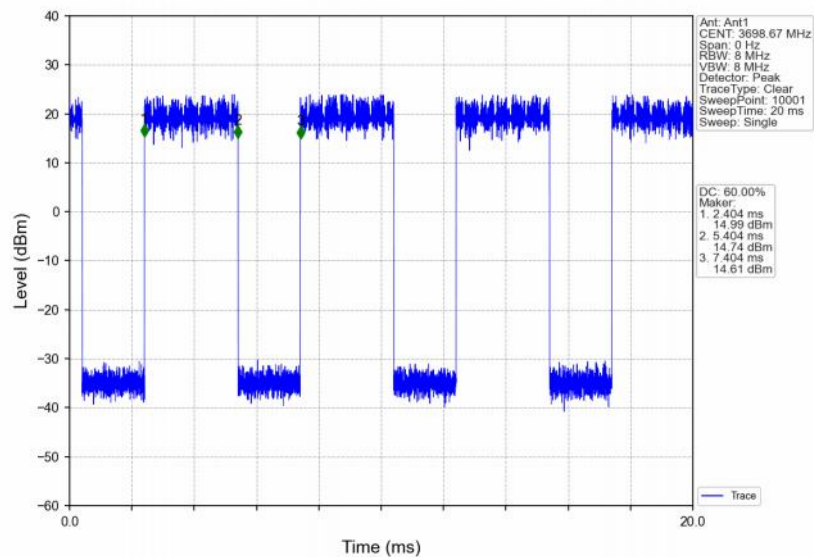
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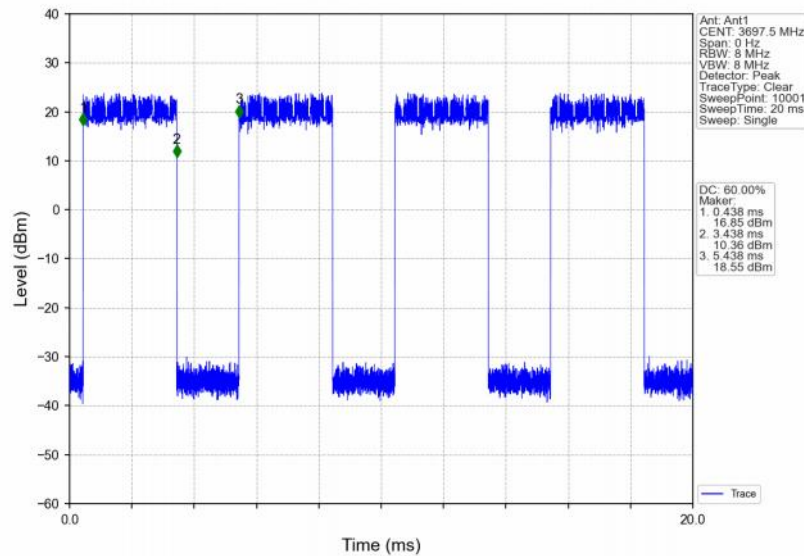


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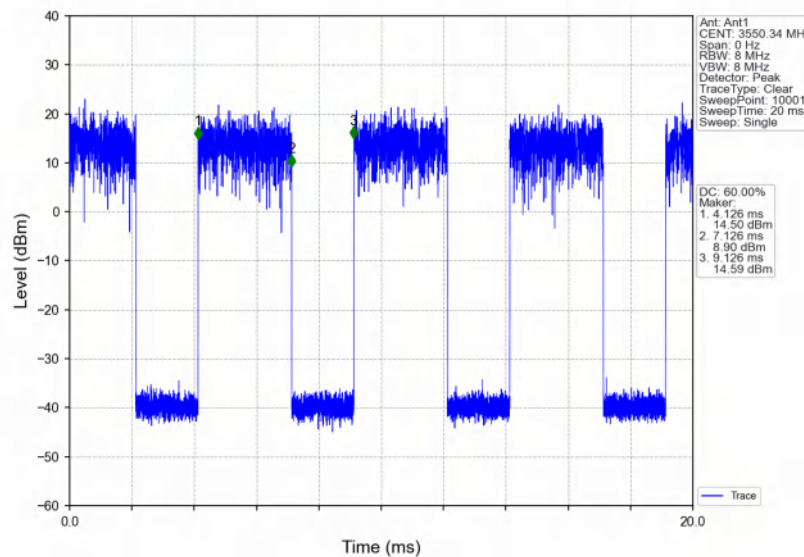
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_LCH_3552.5MHz_RB_1_0_NTNV

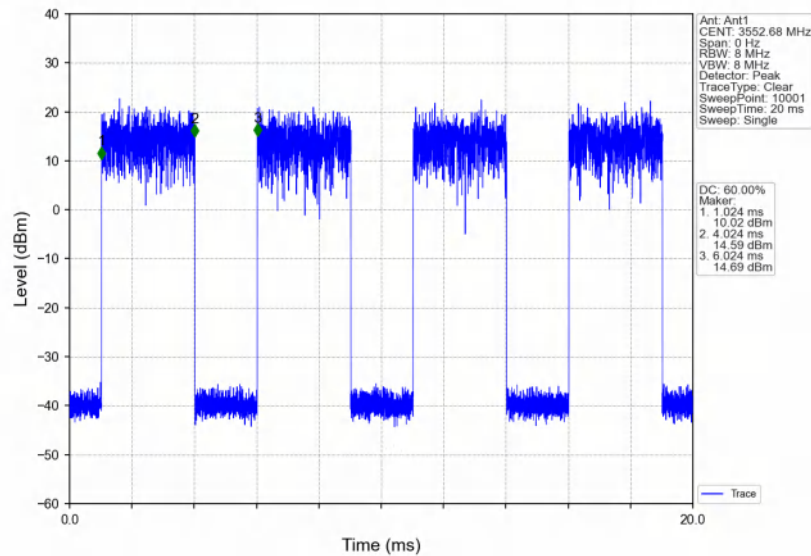


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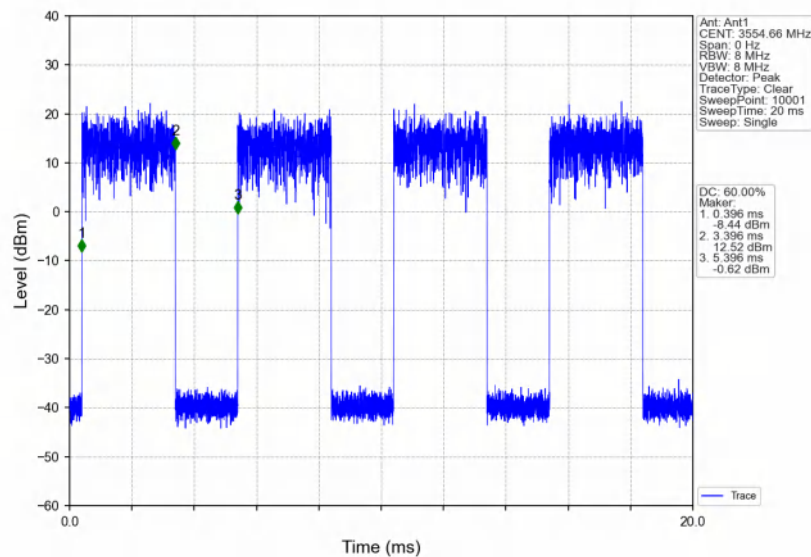
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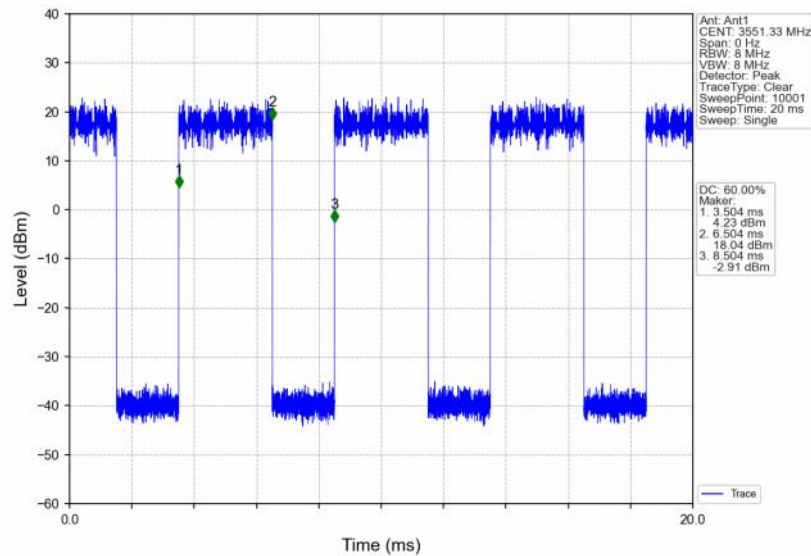


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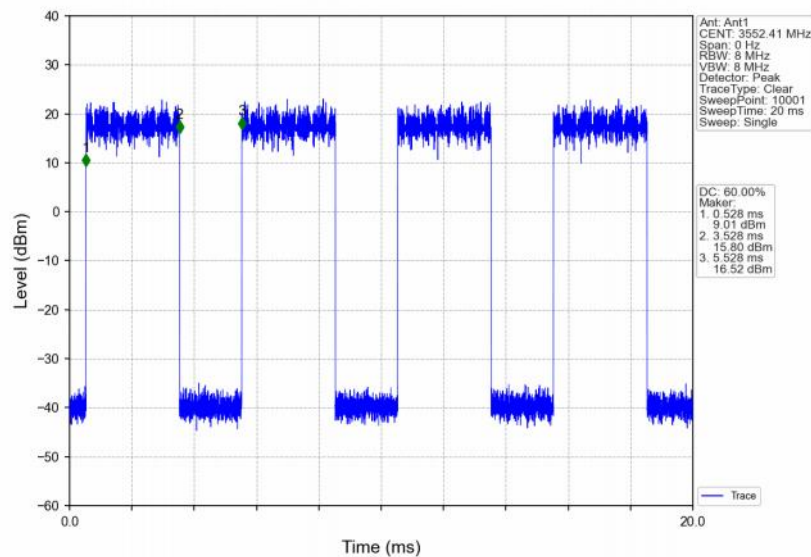
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_12_0_NTNV



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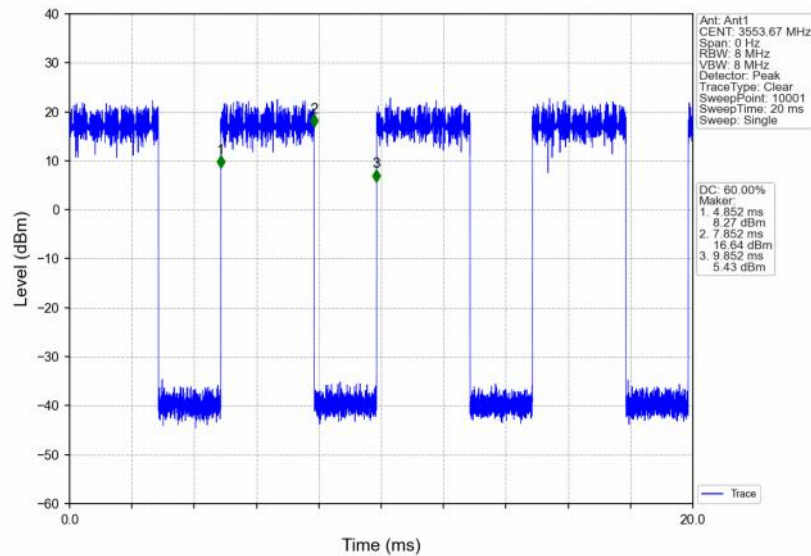


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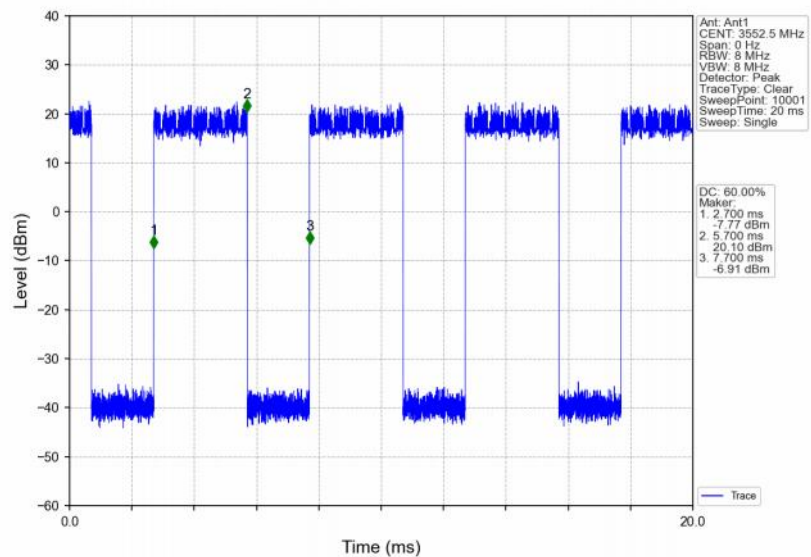
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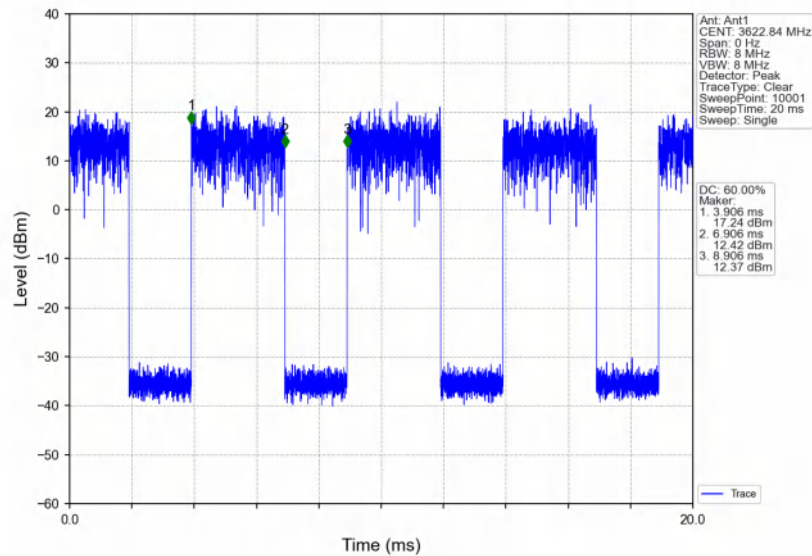


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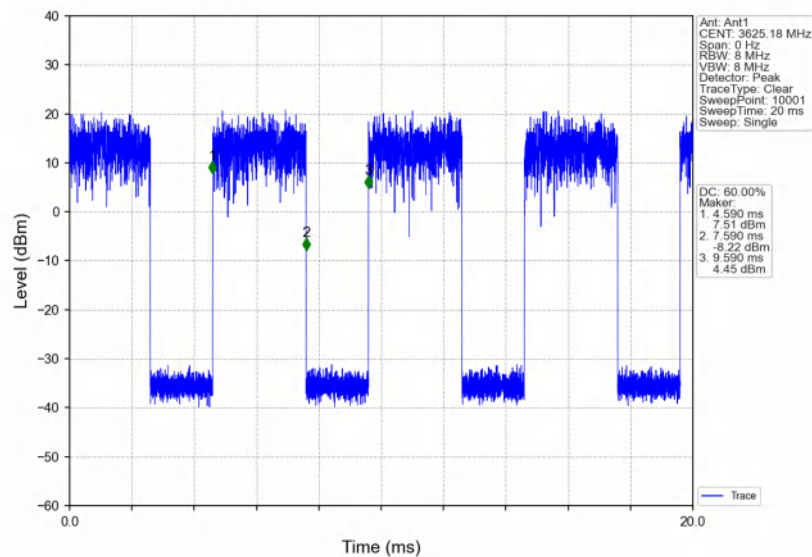
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Band48_5MHz_256QAM_MCH_3625MHz_RB_1_0_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_1_13_NTNV

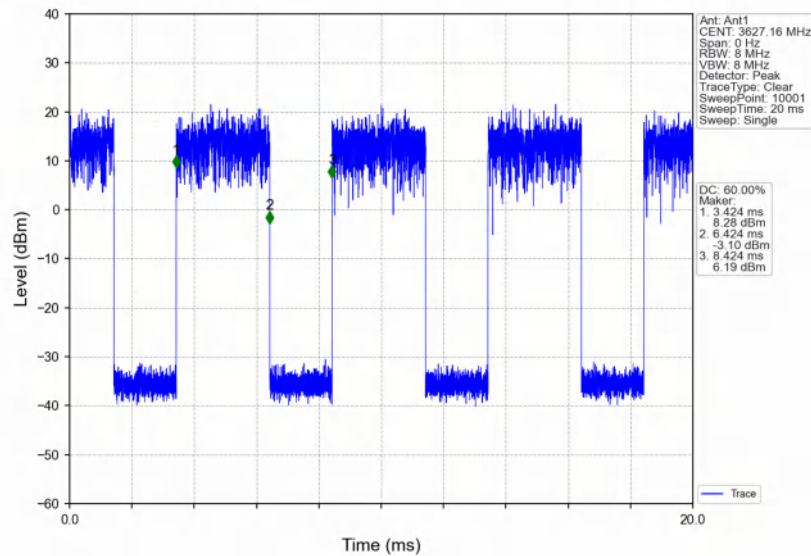


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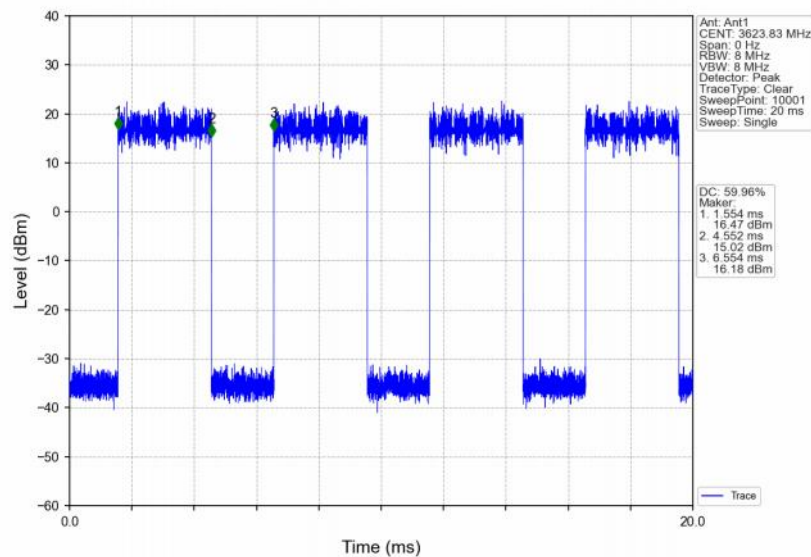
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Band48_5MHz_256QAM_MCH_3625MHz_RB_1_24_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_12_0_NTNV

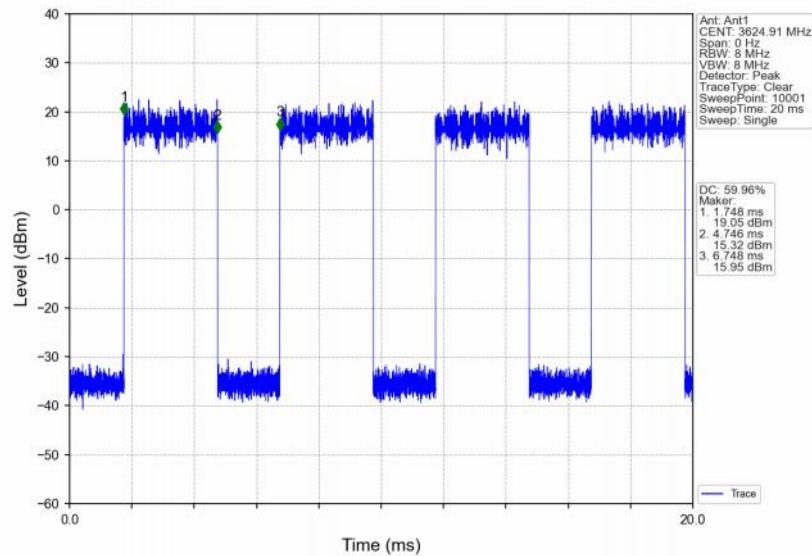


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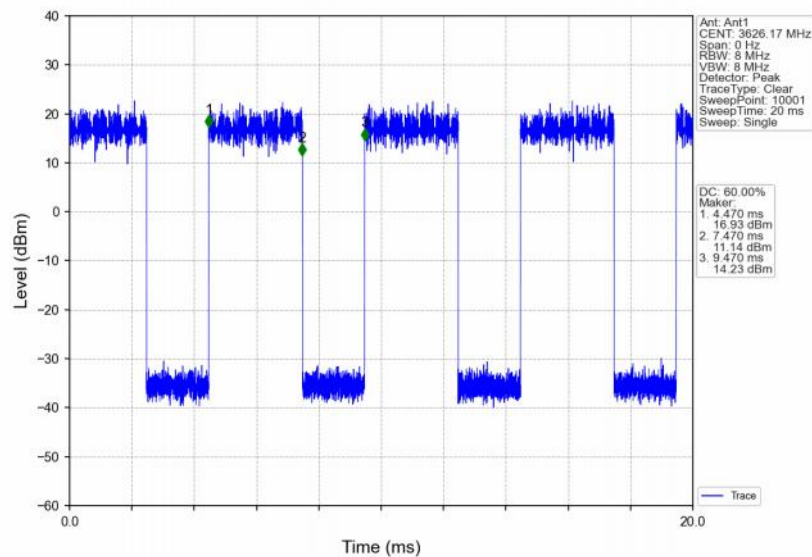
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Band48_5MHz_256QAM_MCH_3625MHz_RB_12_6_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_12_13_NTNV

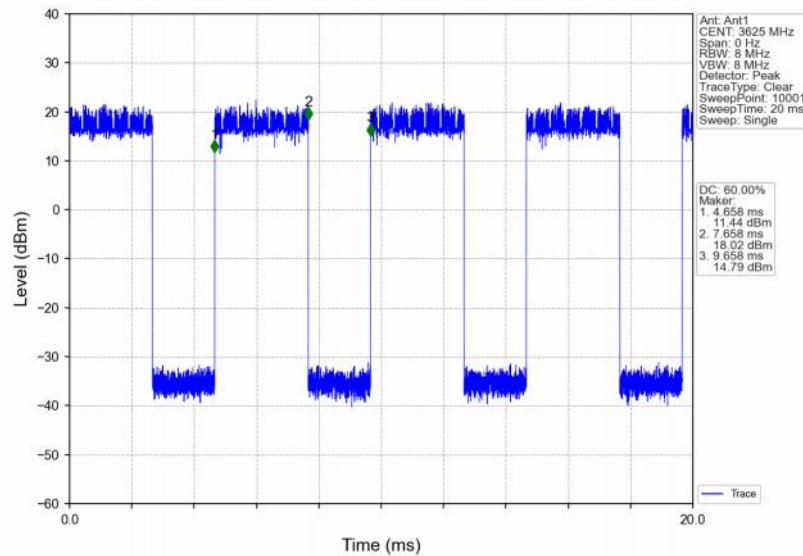


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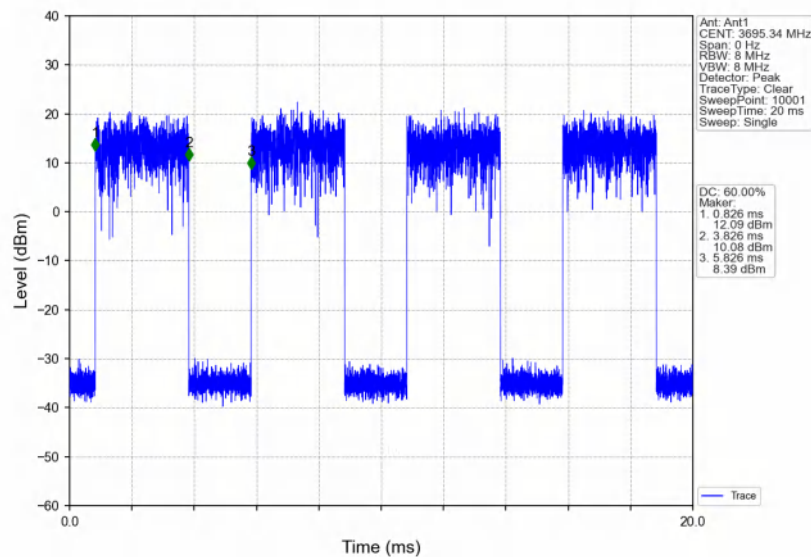
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Band48_5MHz_256QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_0_NTNV

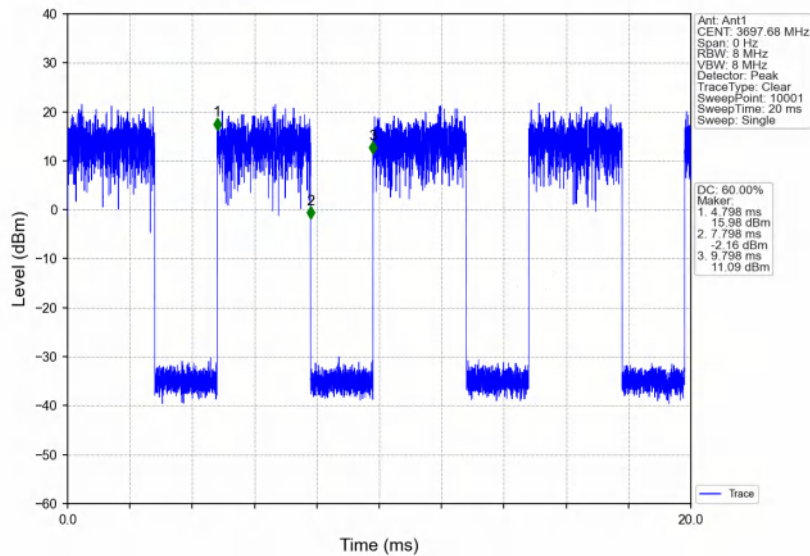


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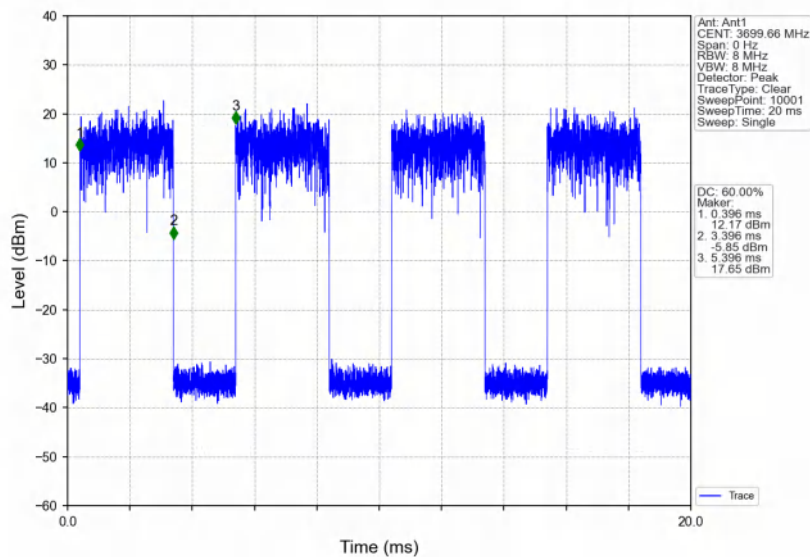
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_13_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_24_NTNV

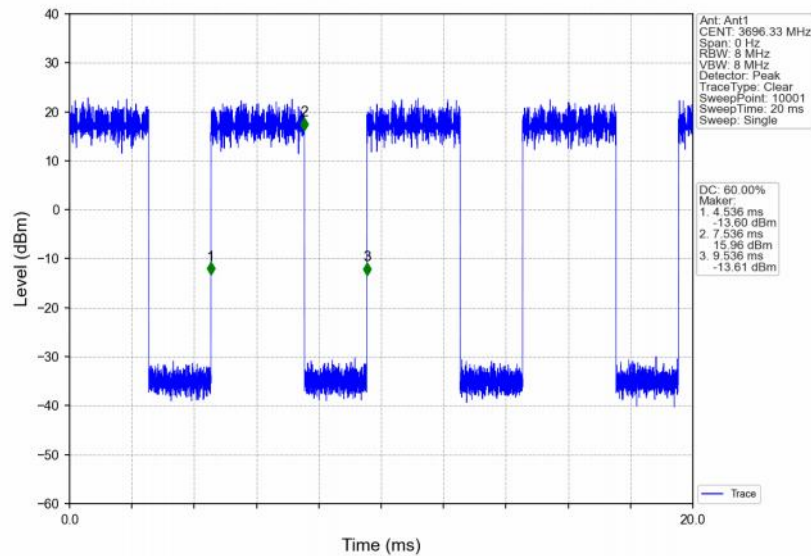


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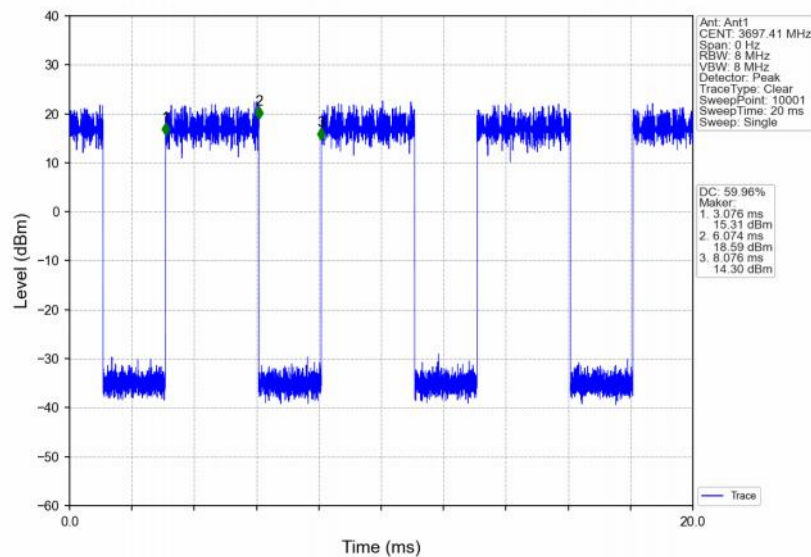
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_6_NTNV

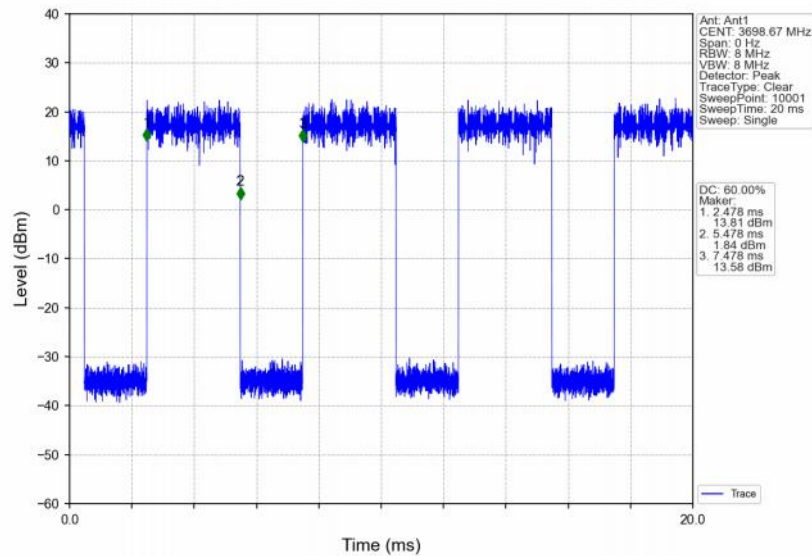


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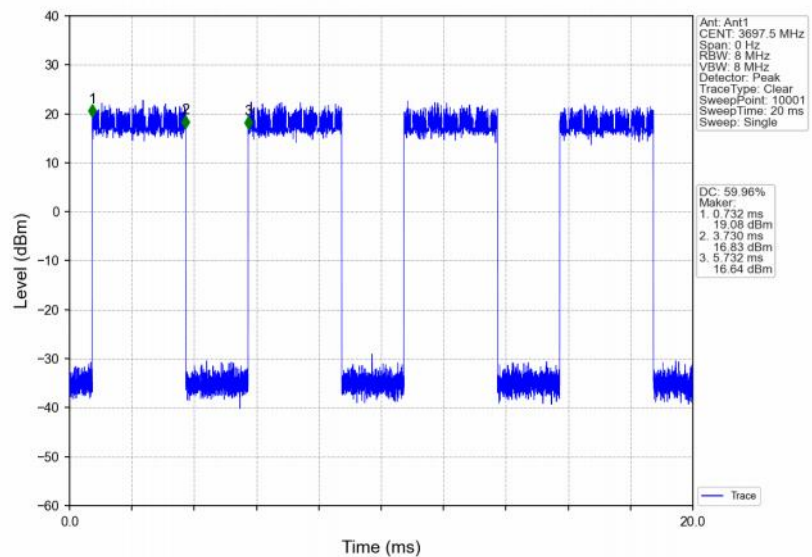
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_13_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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1.2 B48_10MHz

1.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		Size	Offset					
QPSK	3555	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.002	5.000	60.04	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	2.998	5.000	59.96	2.22	0.04
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3695	1	0	3.002	5.000	60.04	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
16QAM	3555	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3625	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3695	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.04
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
64QAM	3555	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.02
		25	0	3.000	5.000	60.00	2.22	0.00



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256QAM	3625	50	13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.04
			0	3.000	5.000	60.00	2.22	0.00
		1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3695	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
	3555	1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.002	59.98	2.22	0.05
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
		1	0	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.000	60.00	2.22	0.00
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00
		1	0	3.000	5.000	60.00	2.22	0.00
			25	2.998	5.000	59.96	2.22	0.00
			49	3.000	5.000	60.00	2.22	0.00
		25	0	3.000	5.002	59.98	2.22	0.02
			13	3.000	5.000	60.00	2.22	0.00
			25	3.000	5.000	60.00	2.22	0.00
		50	0	3.000	5.000	60.00	2.22	0.00

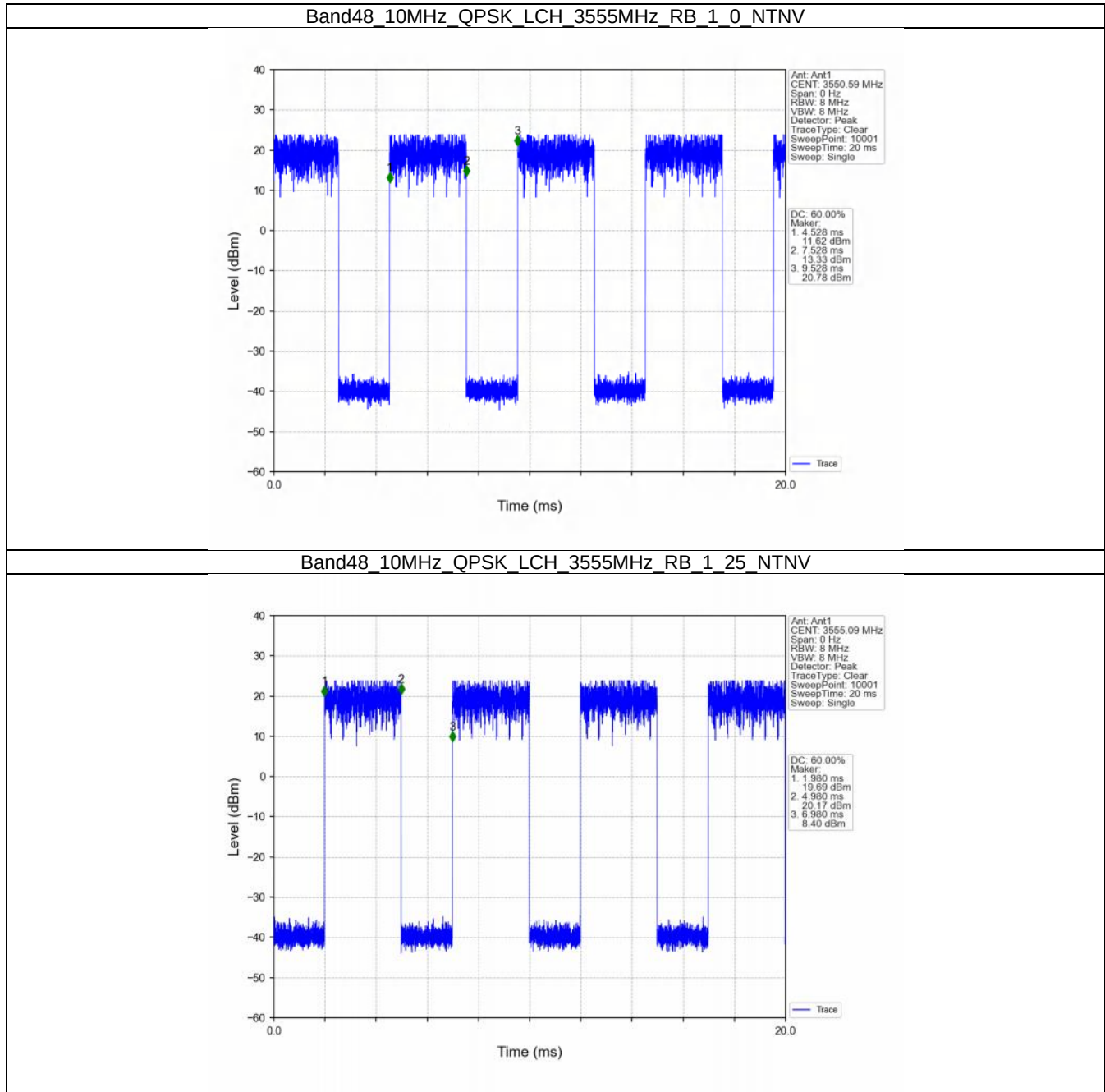


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1.2.2 Test Graph

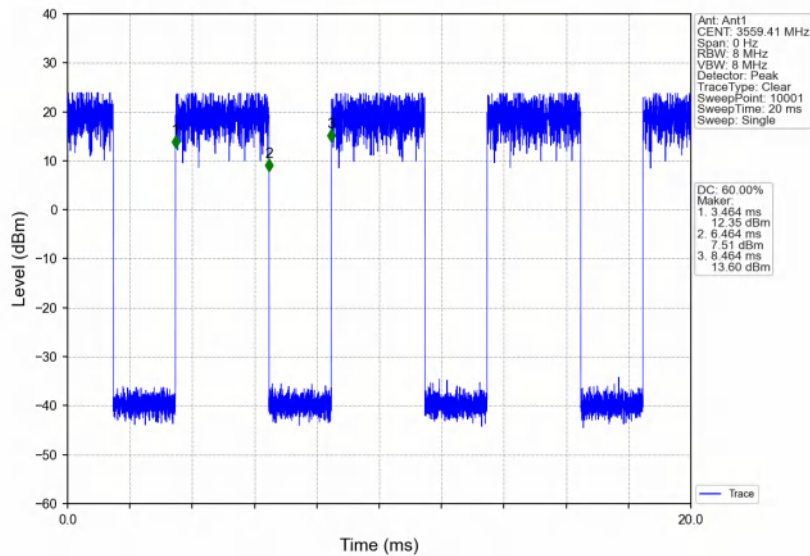


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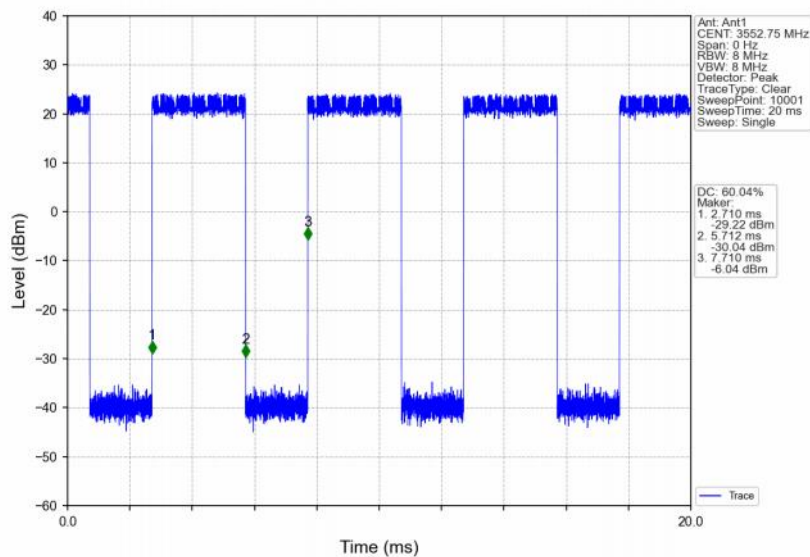
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Band48_10MHz_QPSK_LCH_3555MHz_RB_1_49_NTNV



Band48_10MHz_QPSK_LCH_3555MHz_RB_25_0_NTNV

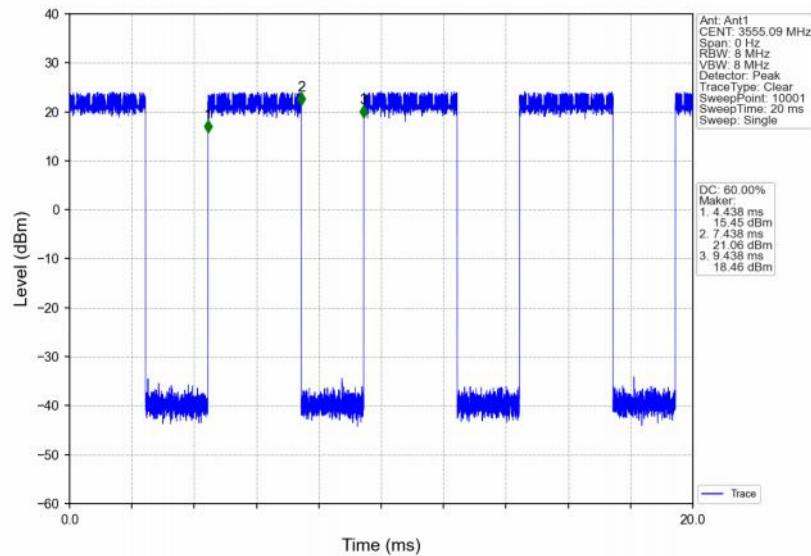


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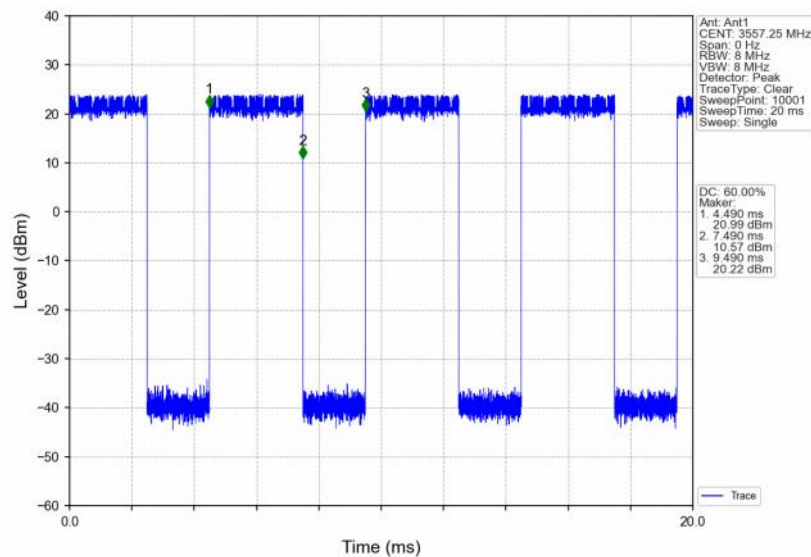
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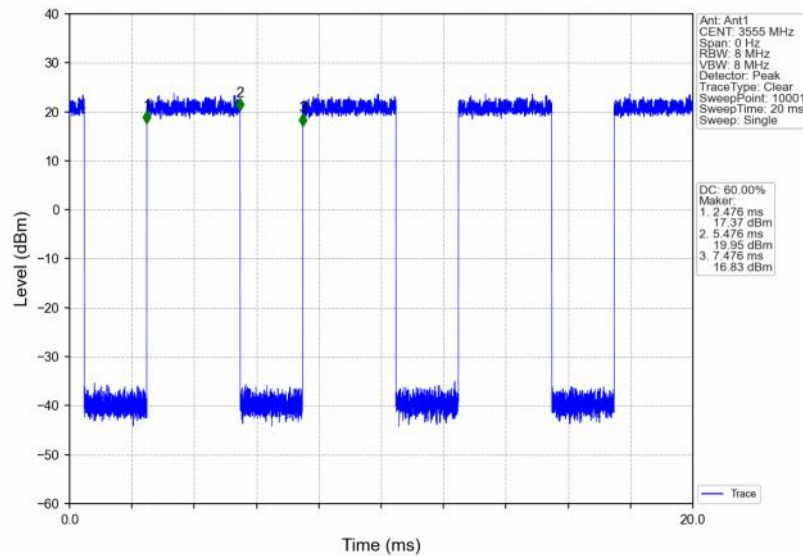


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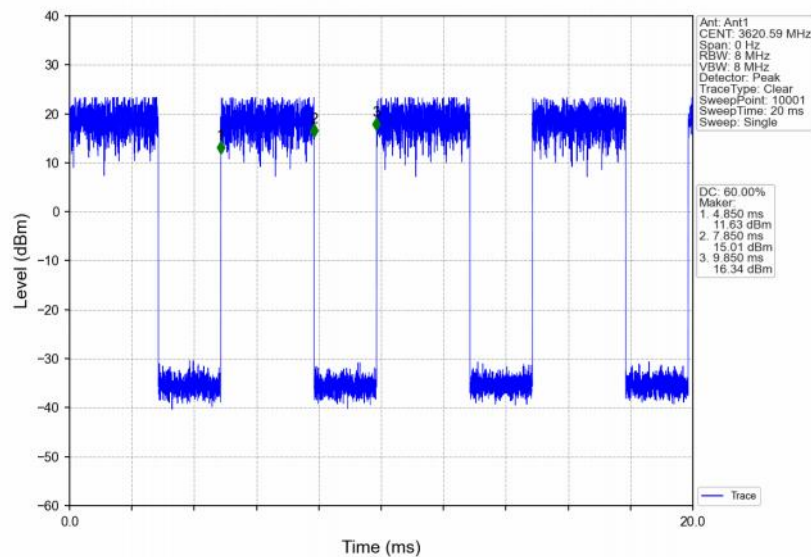
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Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV

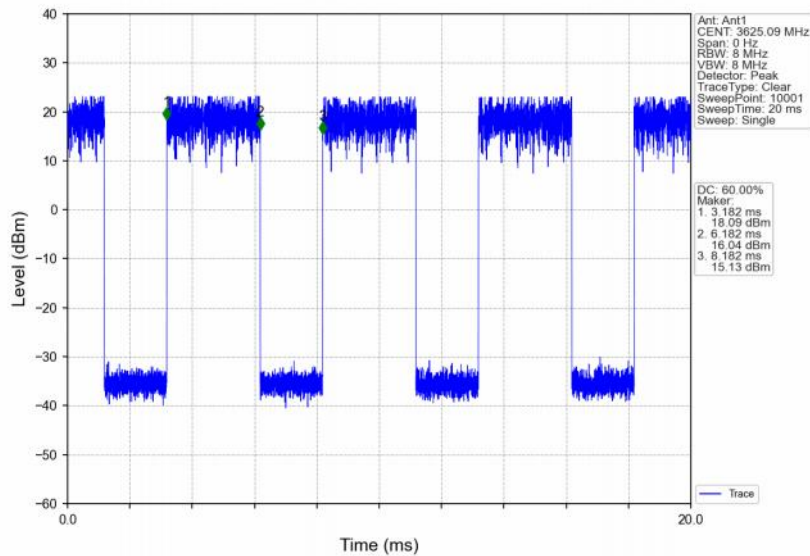


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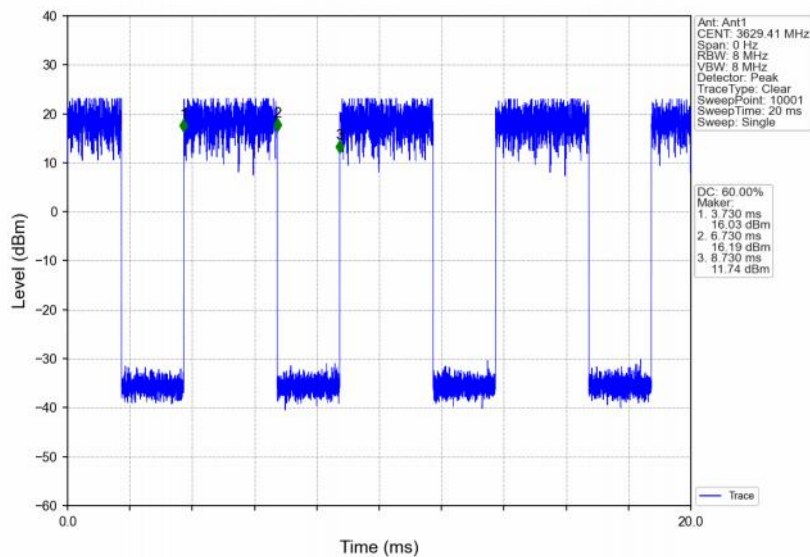
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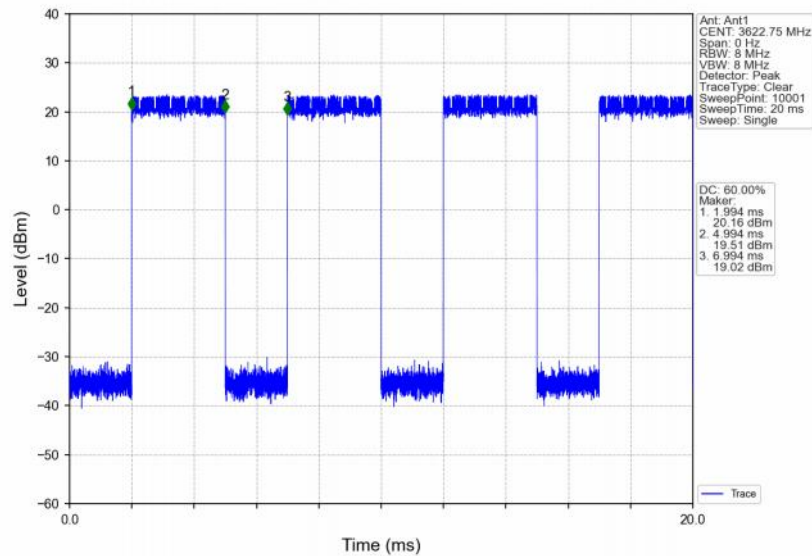


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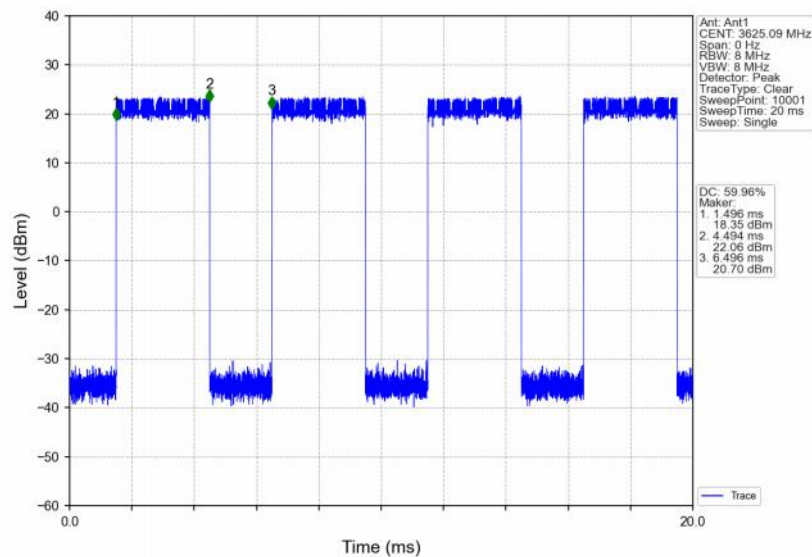
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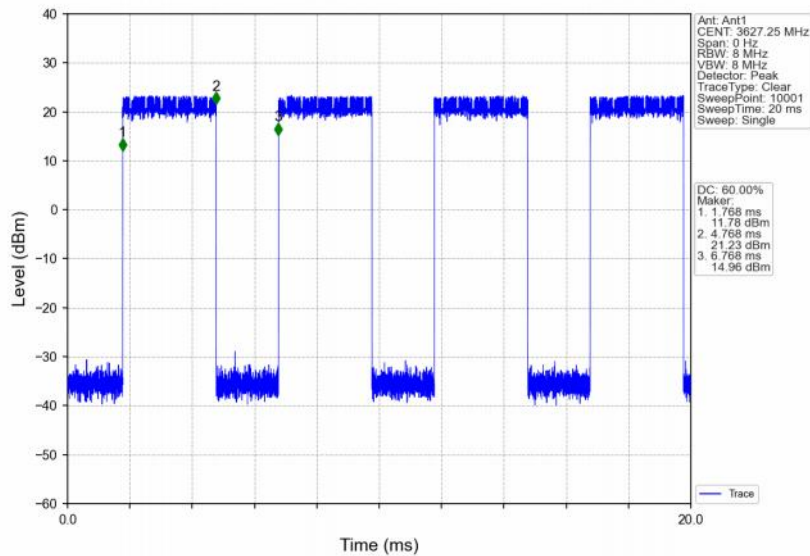


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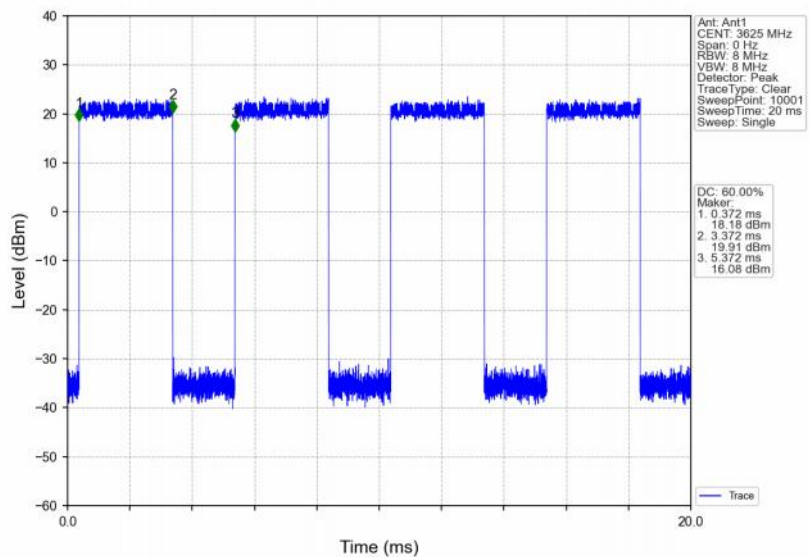
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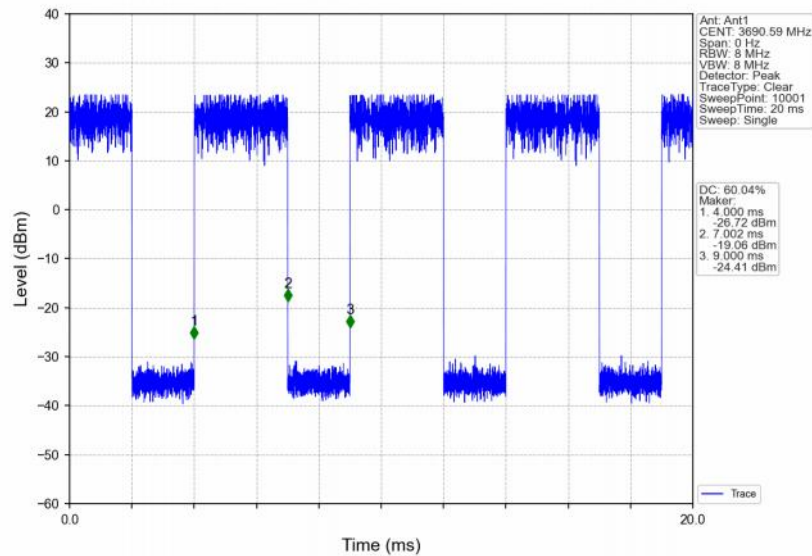


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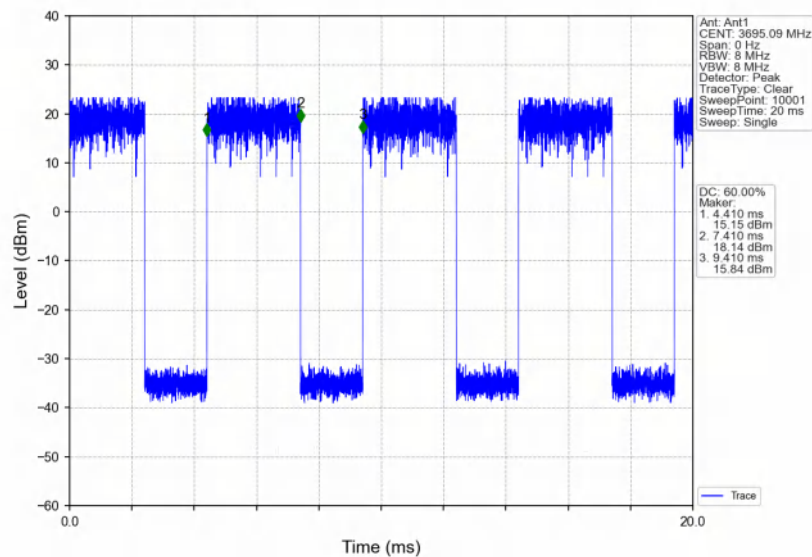
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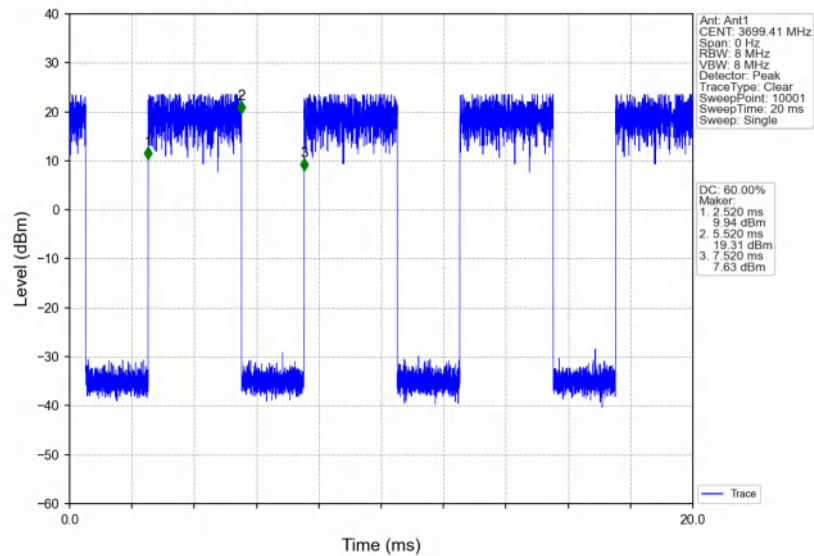


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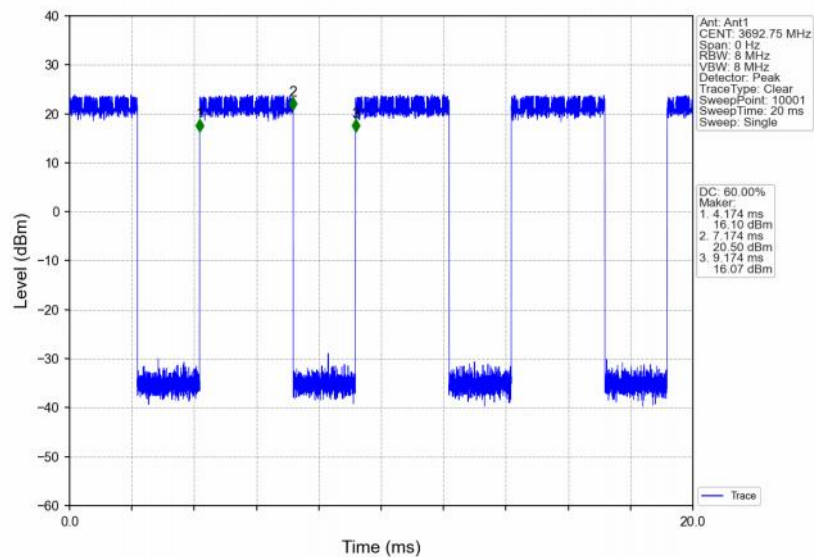
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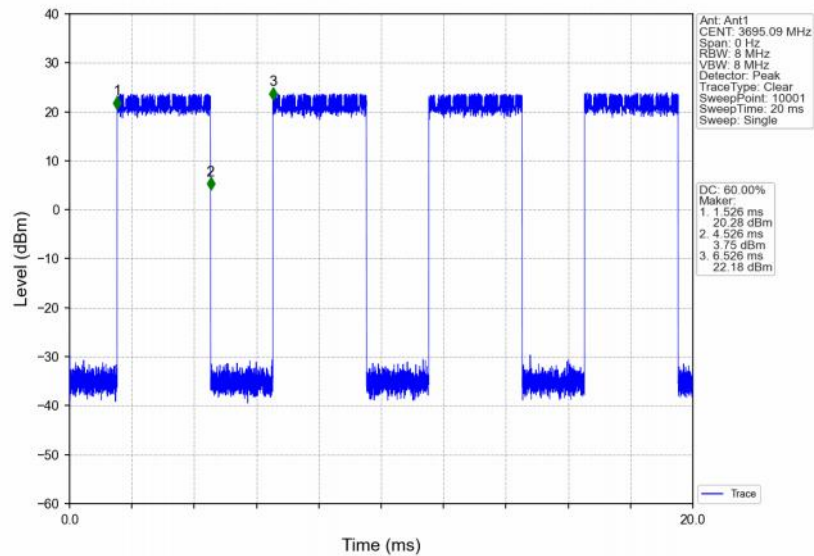


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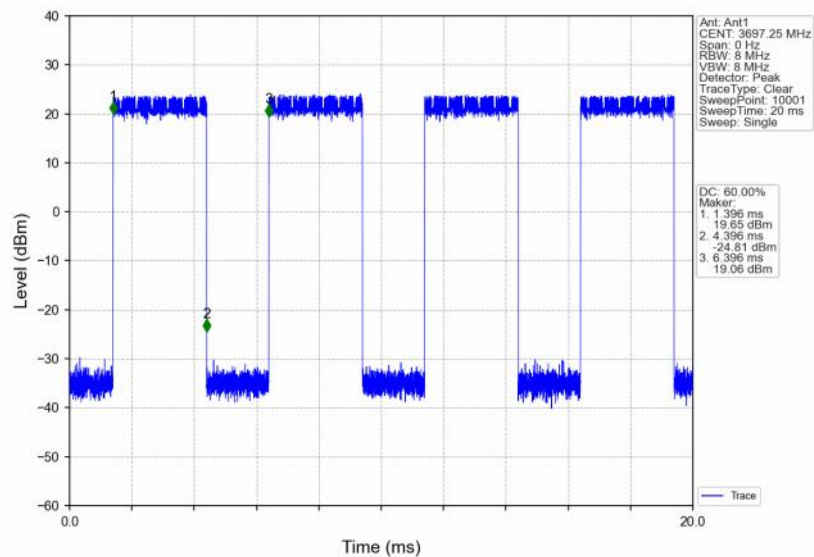
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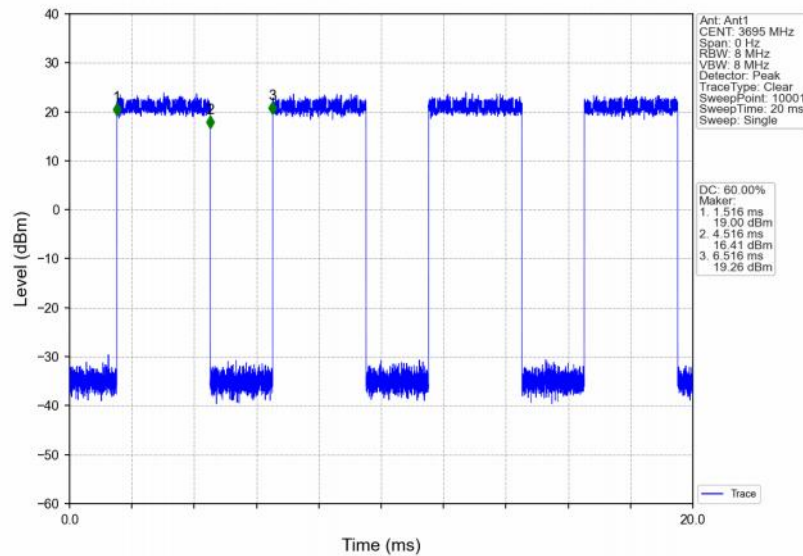


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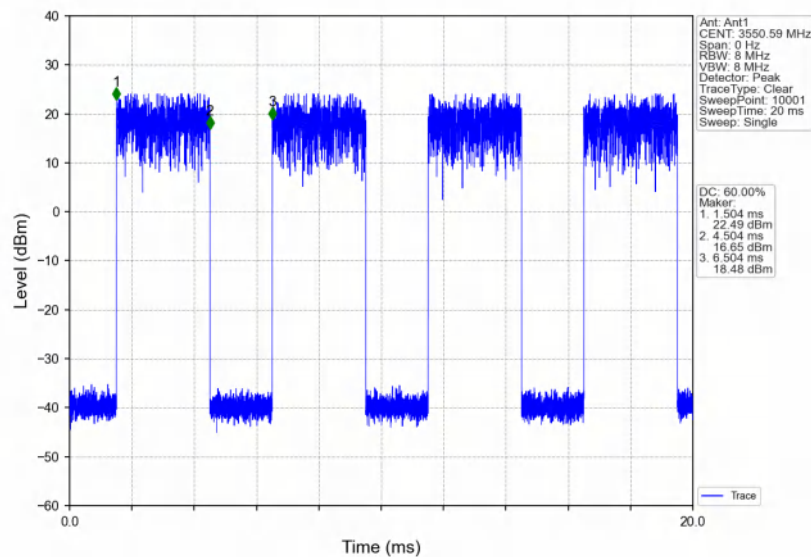
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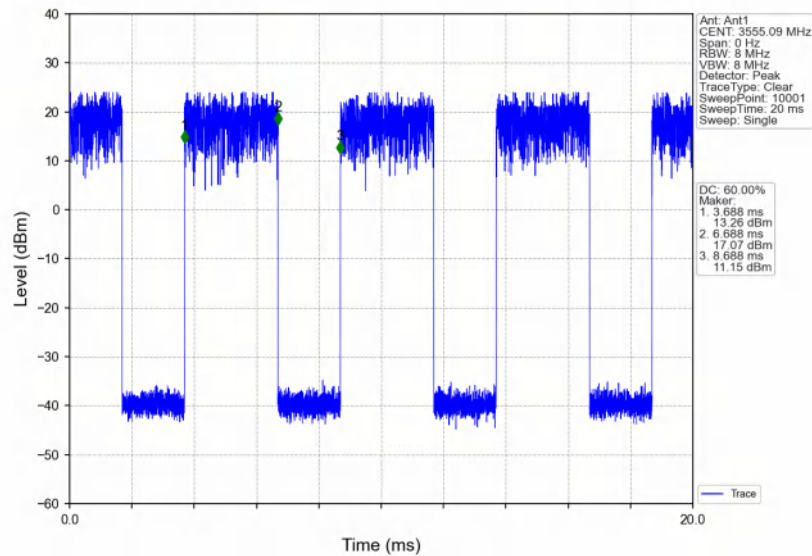


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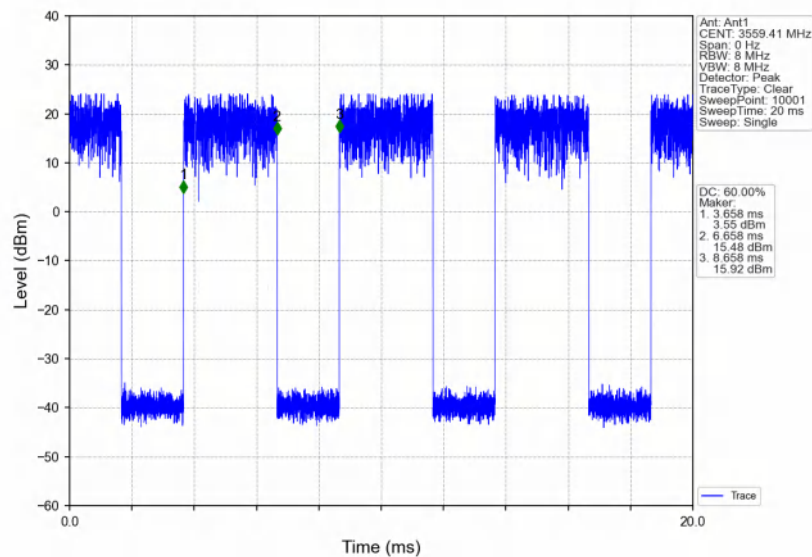
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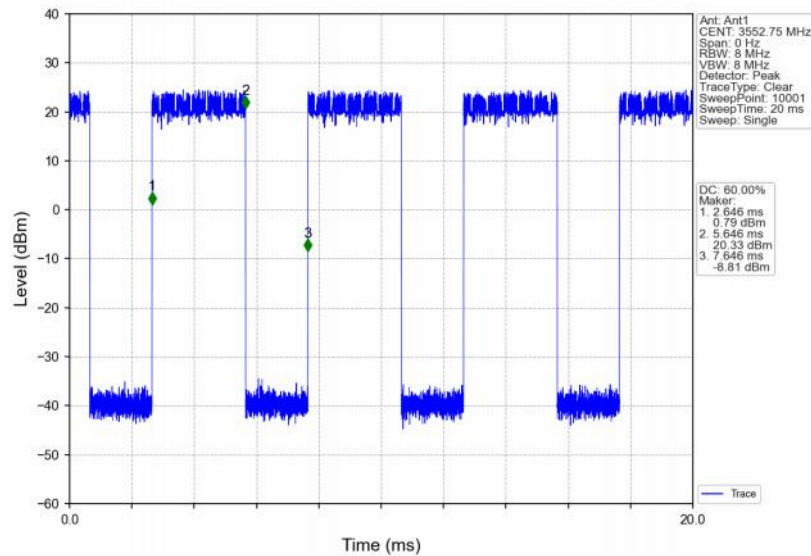


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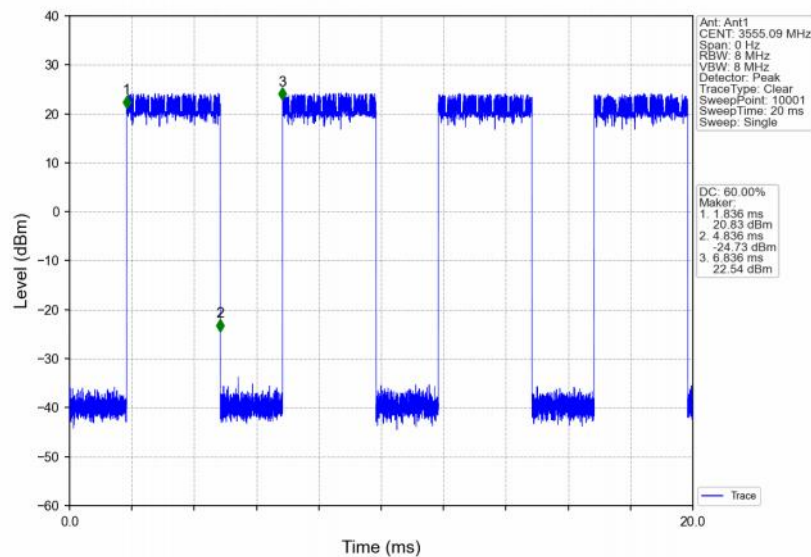
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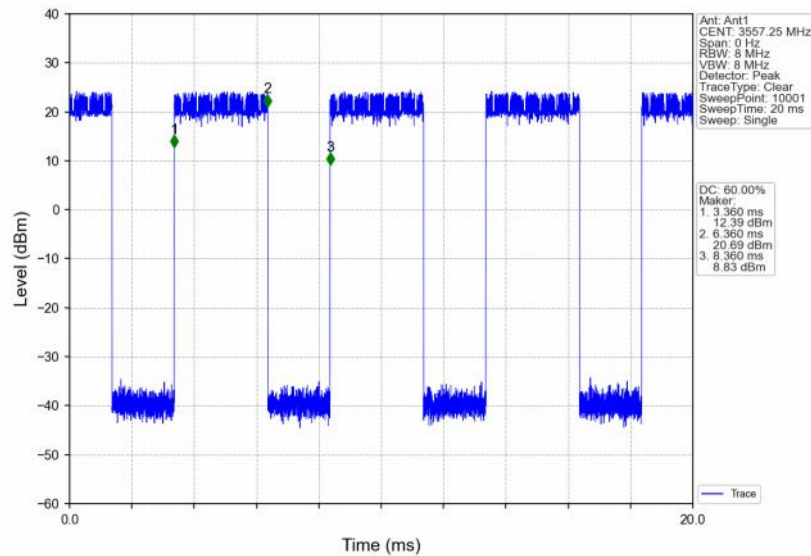


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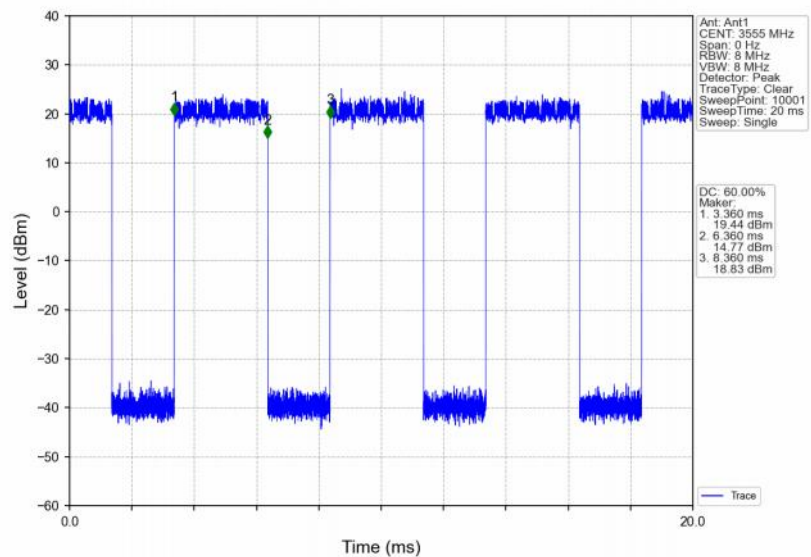
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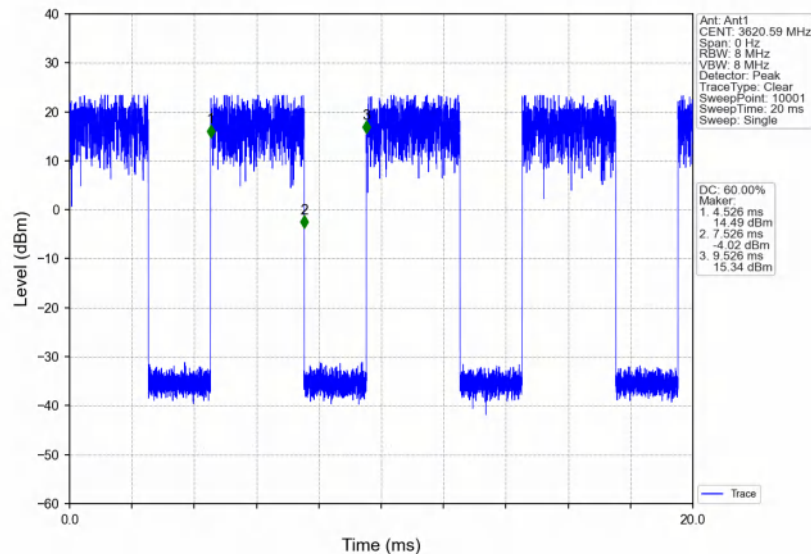


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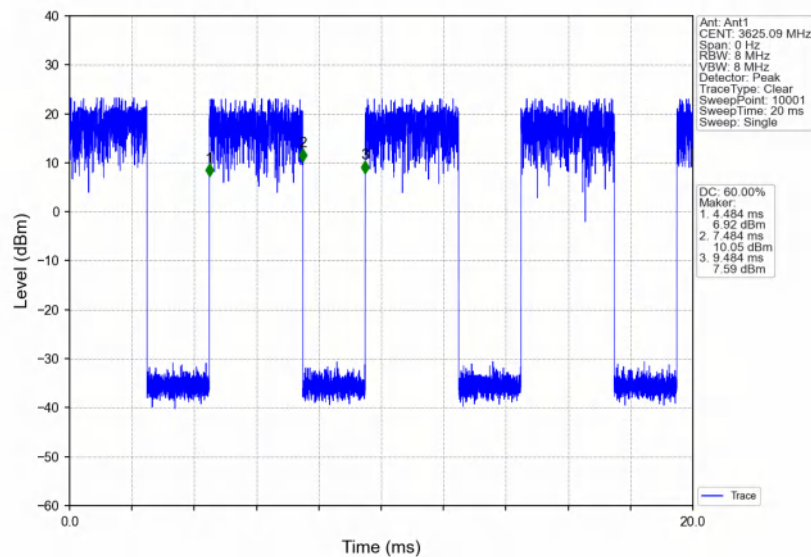
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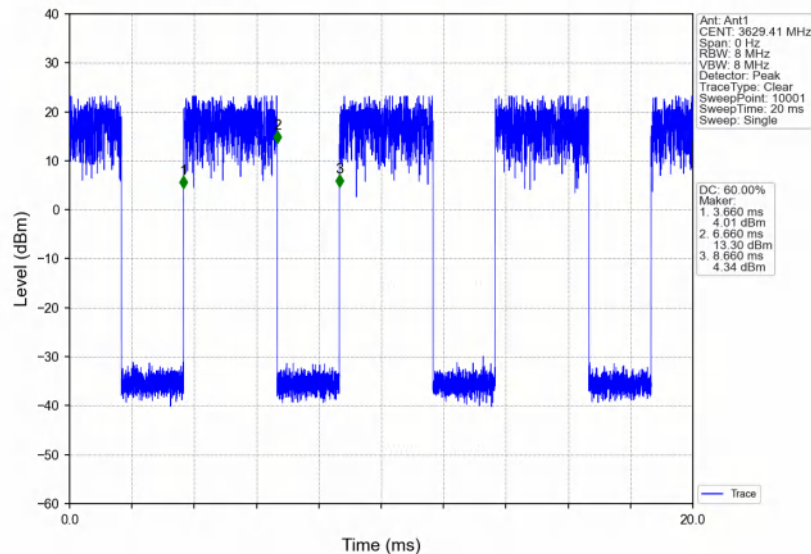


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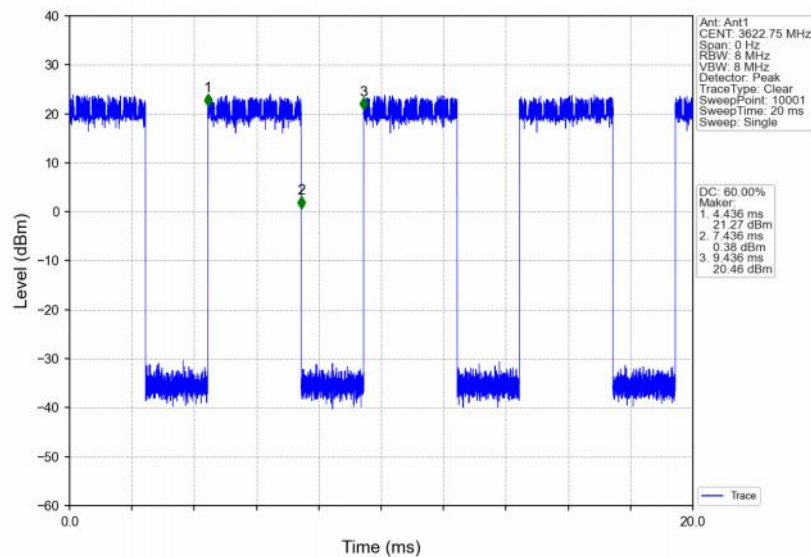
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Band48_10MHz_16QAM_MCH_3625MHz_RB_1_49_NTNV



Band48_10MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV

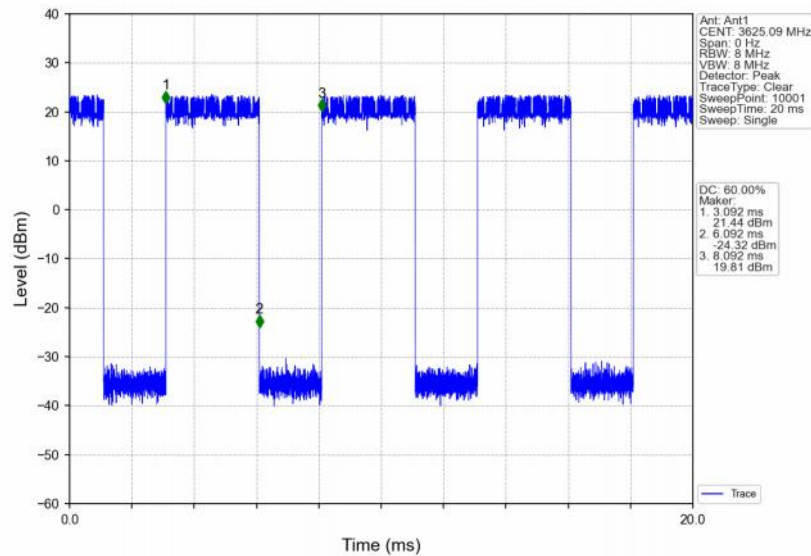


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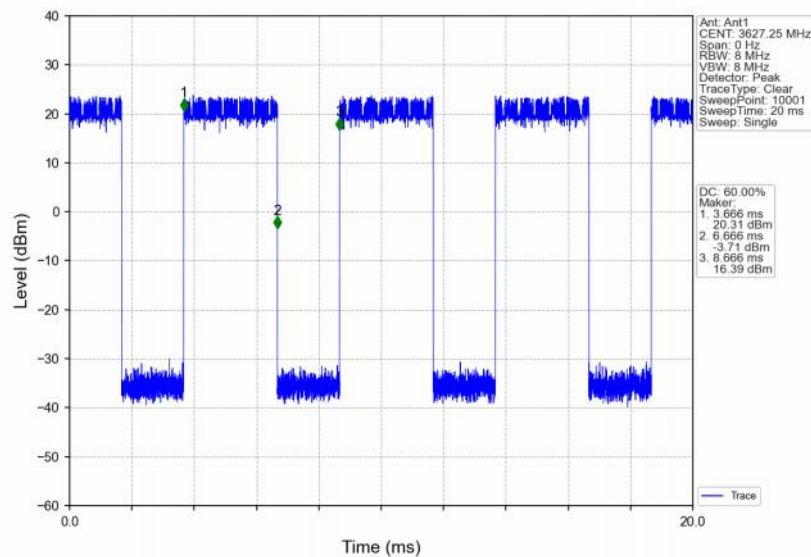
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Band48_10MHz_16QAM_MCH_3625MHz_RB_25_13_NTNV



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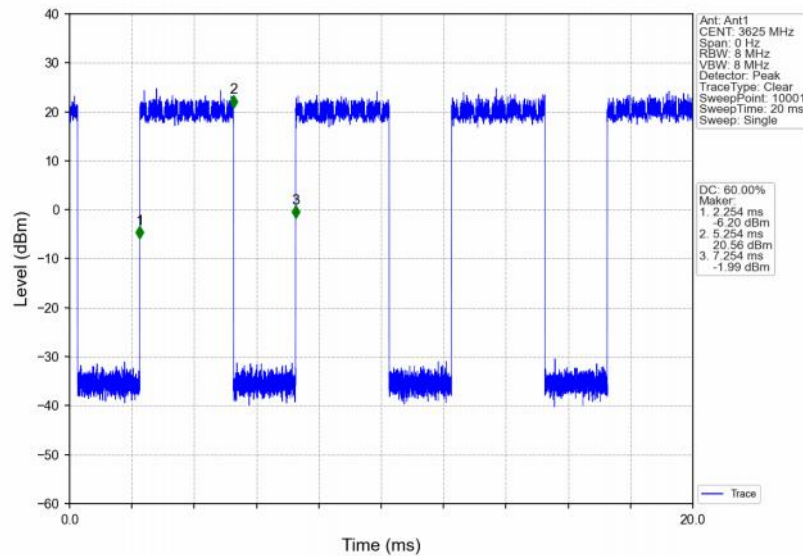


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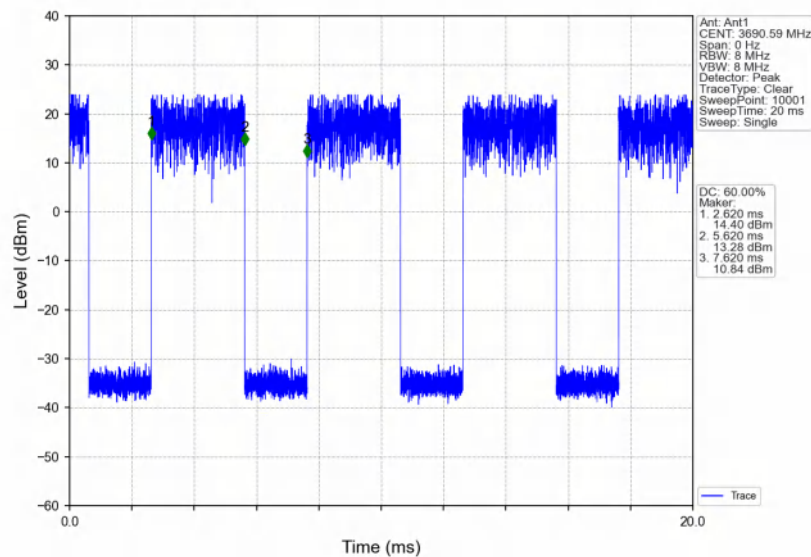
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Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV



Band48_10MHz_16QAM_HCH_3695MHz_RB_1_0_NTNV

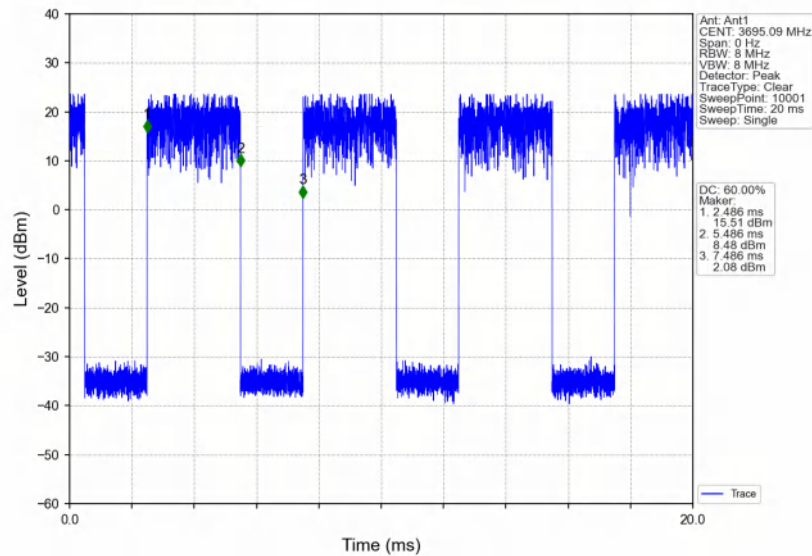


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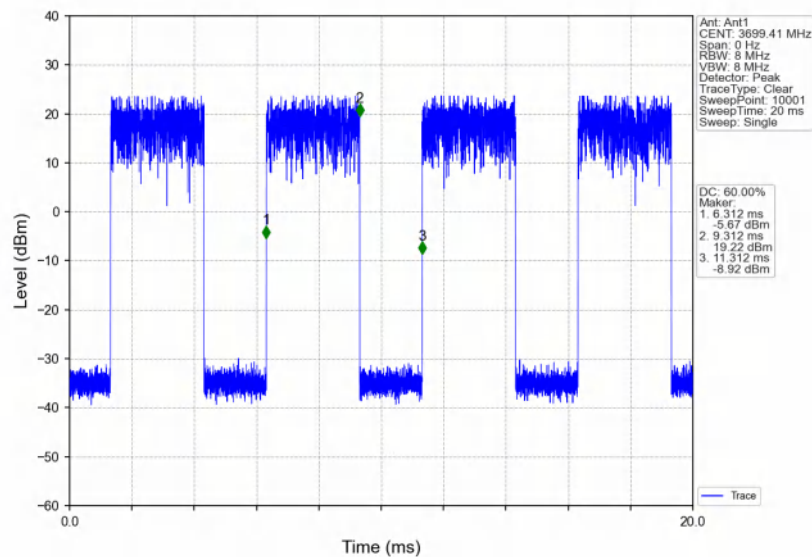
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Band48 10MHz 16QAM HCH 3695MHz RB 1 25 NTNV



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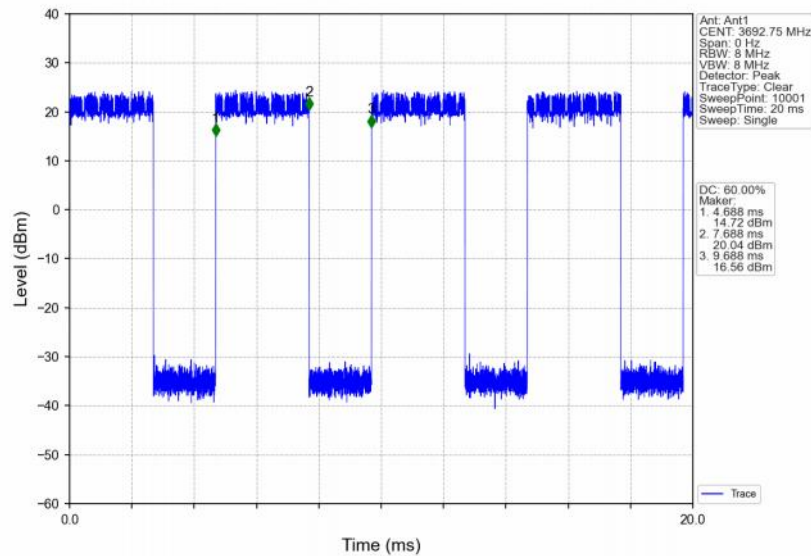


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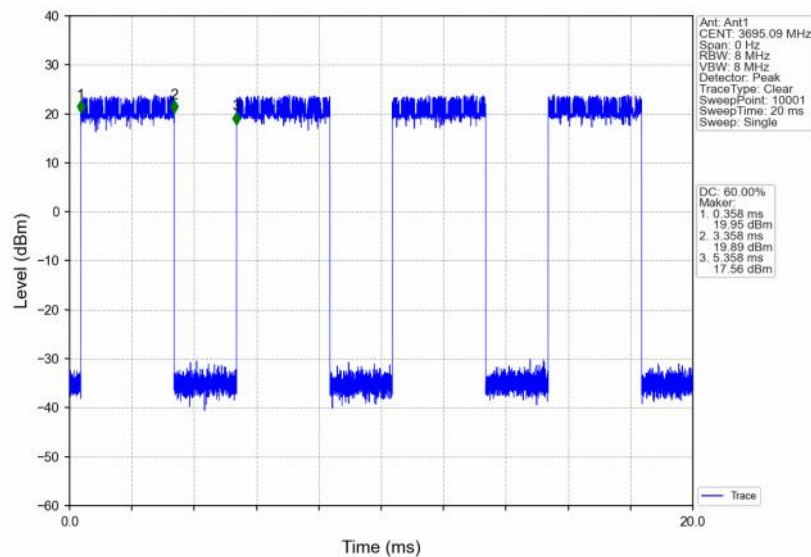
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Band48_10MHz_16QAM_HCH_3695MHz_RB_25_0_NTNV



Band48_10MHz_16QAM_HCH_3695MHz_RB_25_13_NTNV

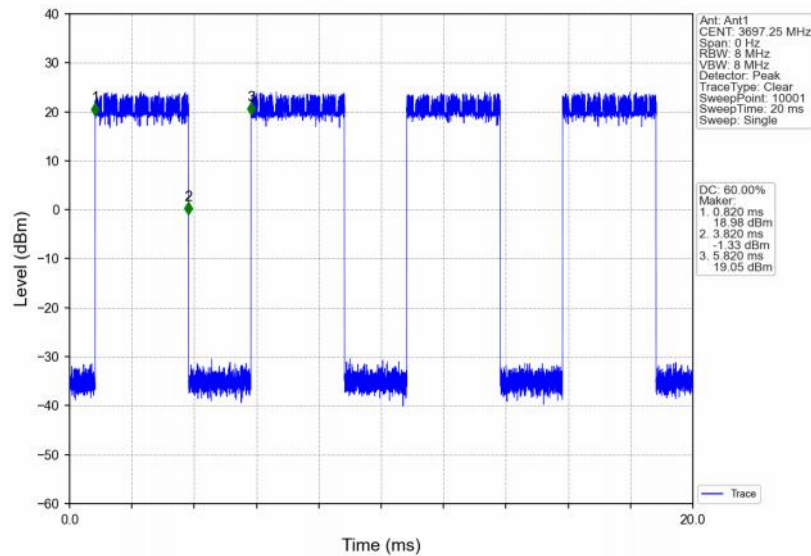


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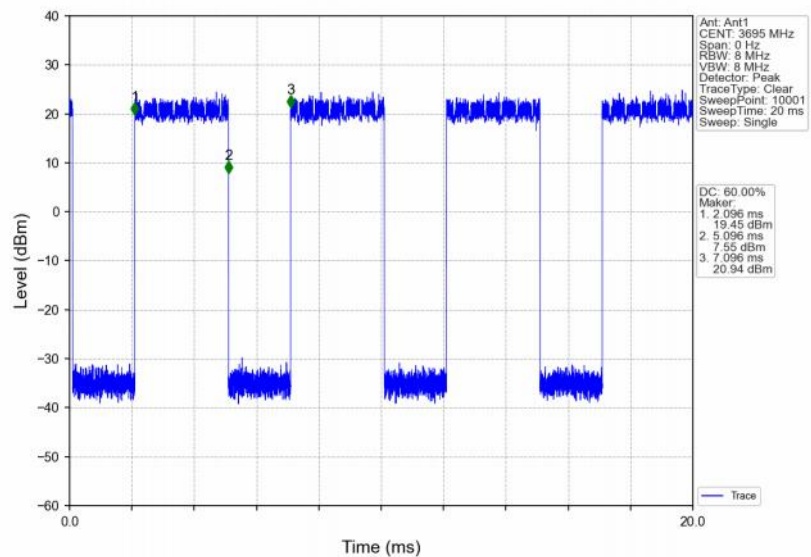
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Band48_10MHz_16QAM_HCH_3695MHz_RB_25_25_NTNV



Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV

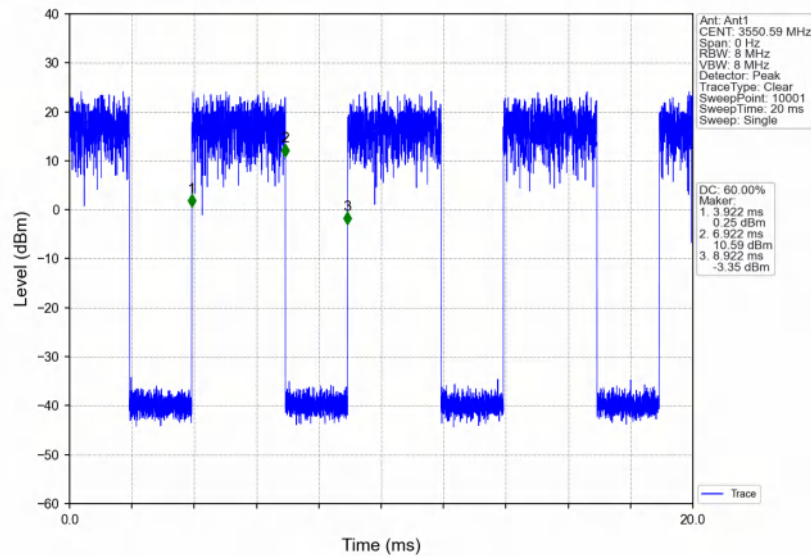


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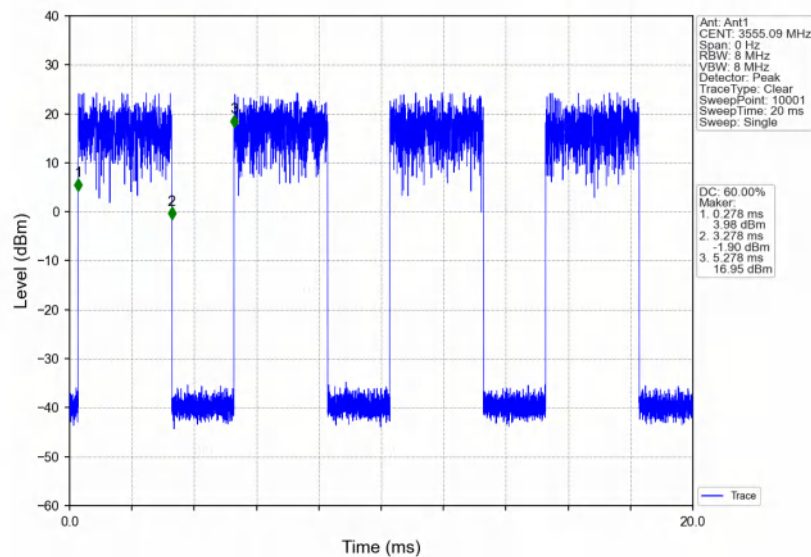
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Band48_10MHz_64QAM_LCH_3555MHz_RB_1_0_NTNV



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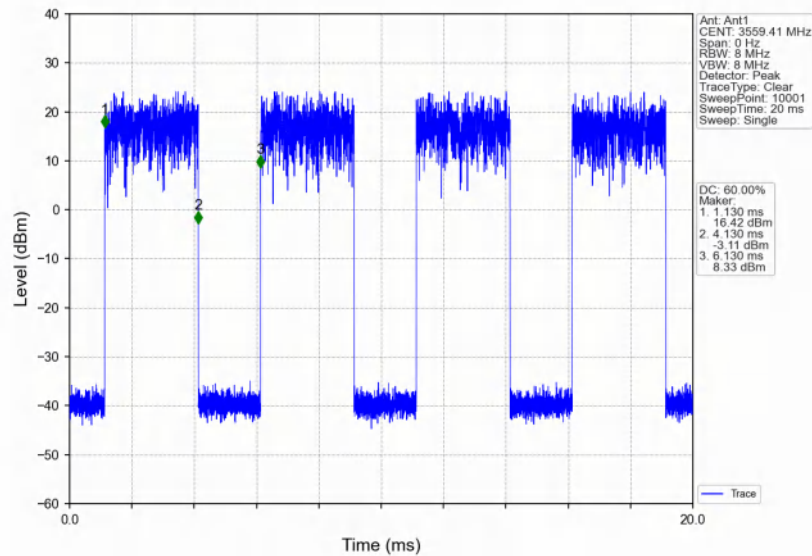


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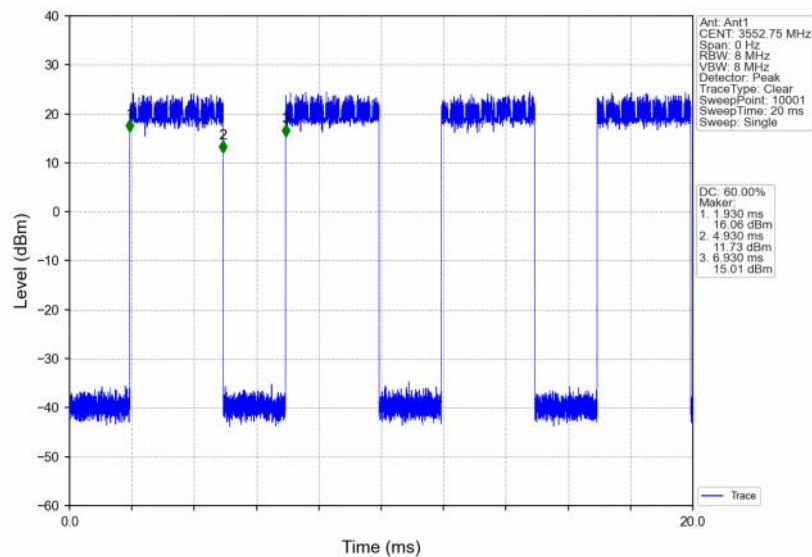
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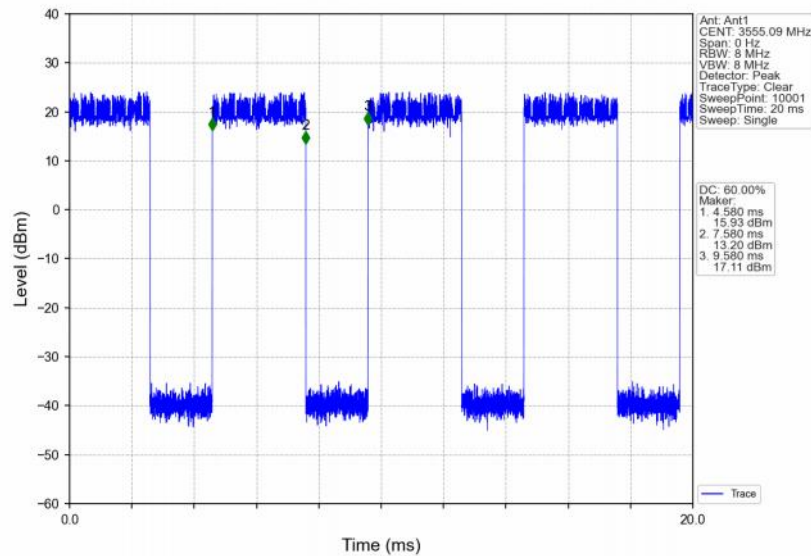


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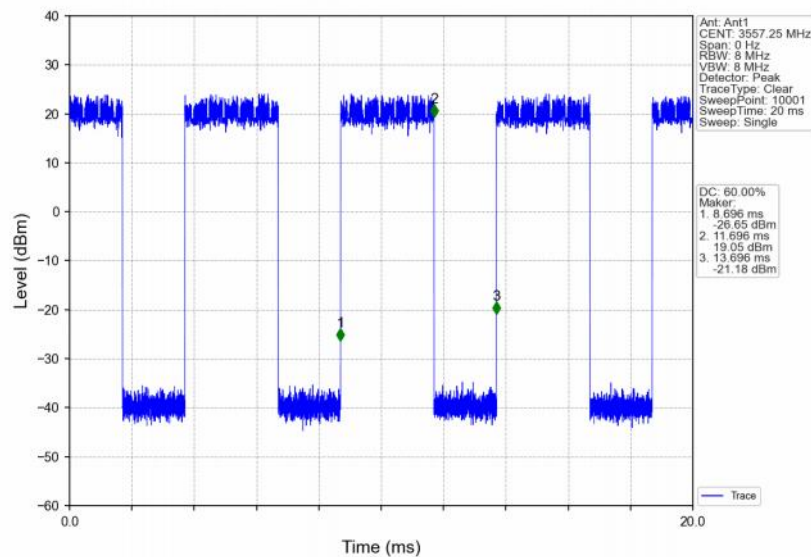
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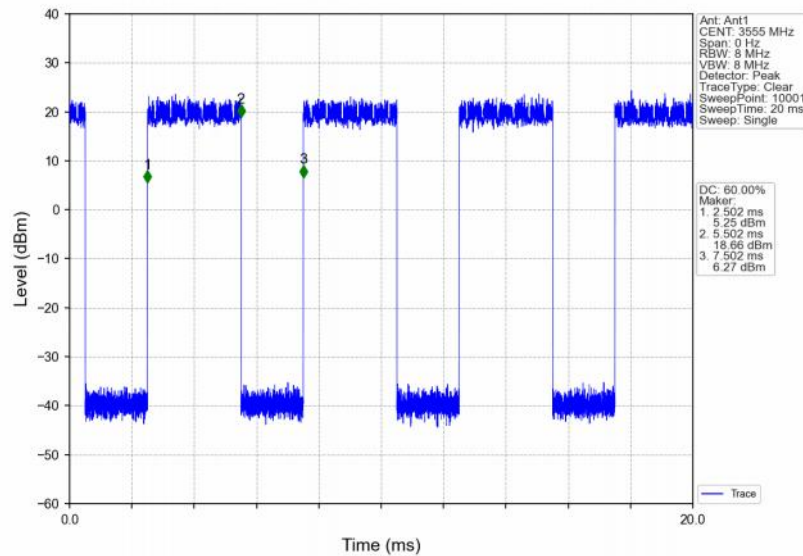


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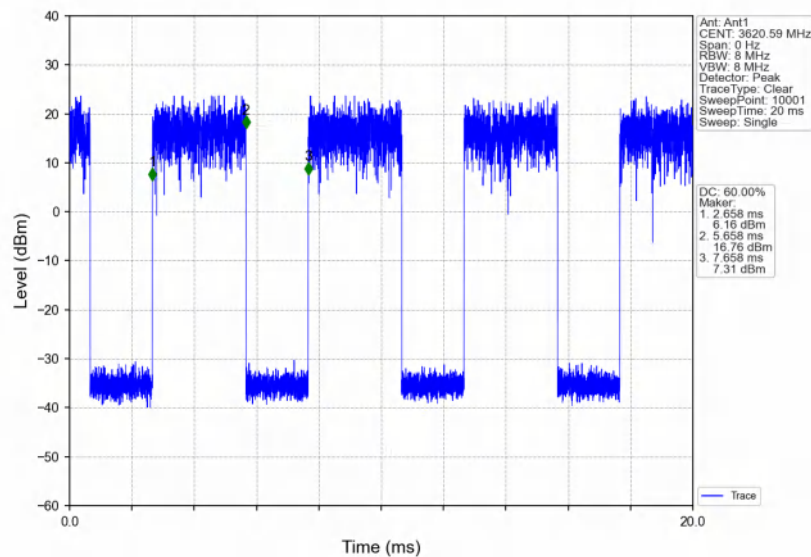
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Band48_10MHz_64QAM_MCH_3625MHz_RB_1_0_NTNV

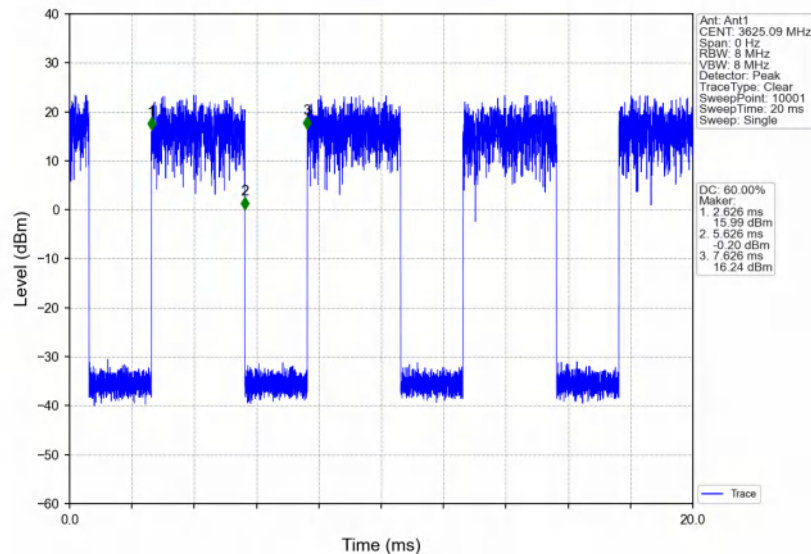


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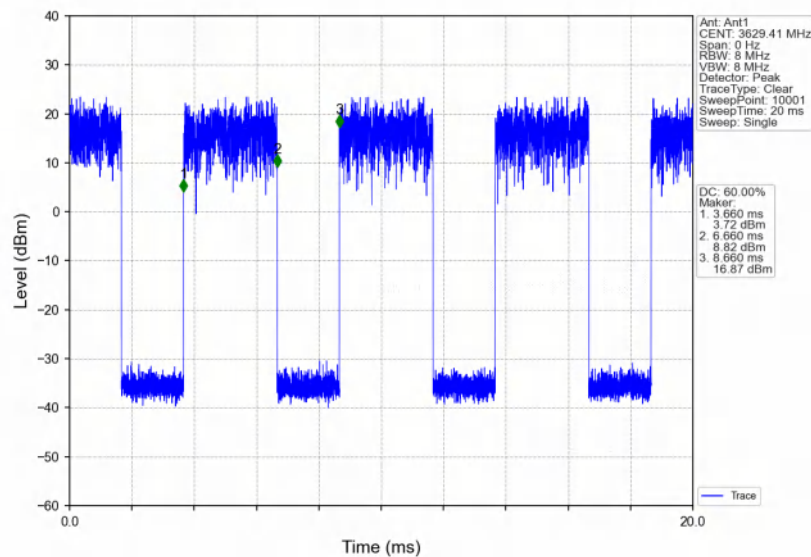
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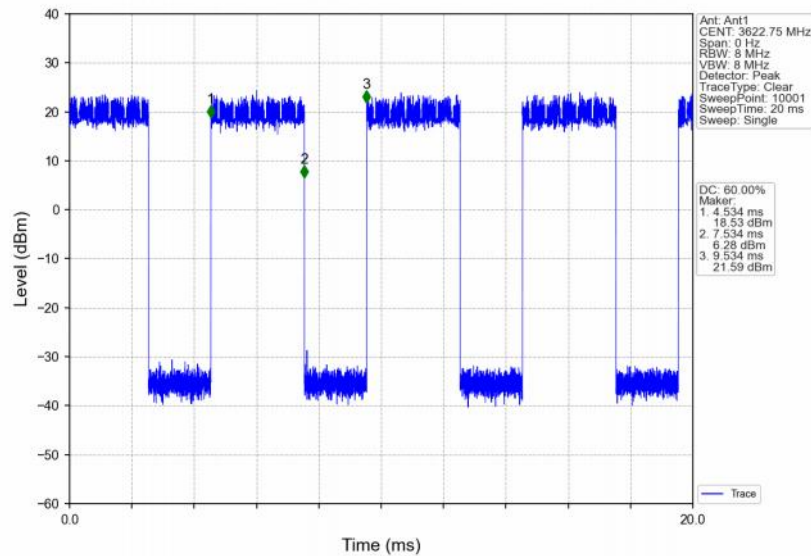


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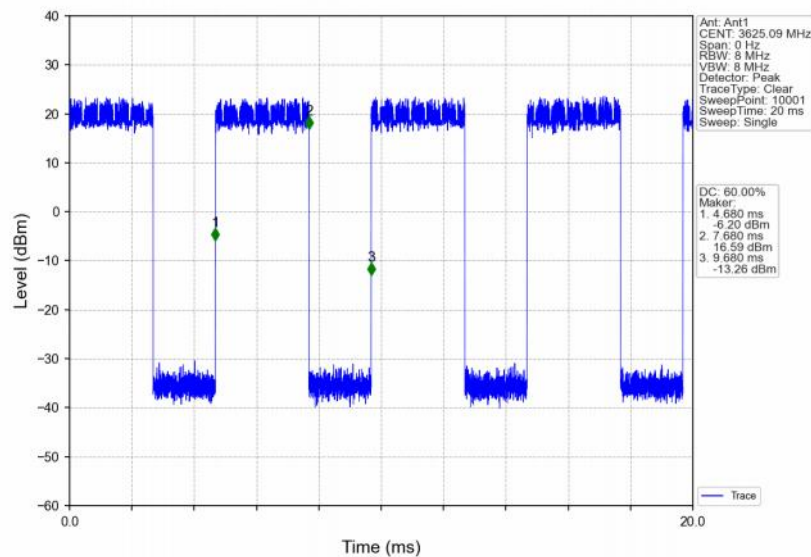
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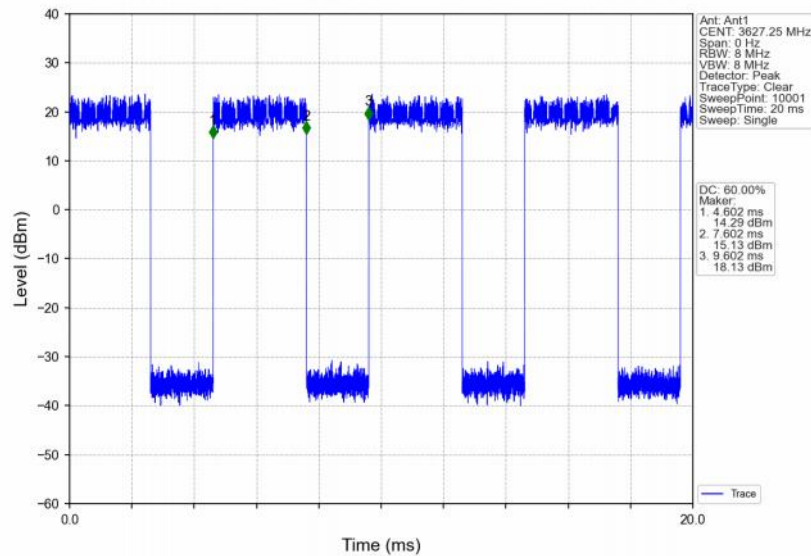


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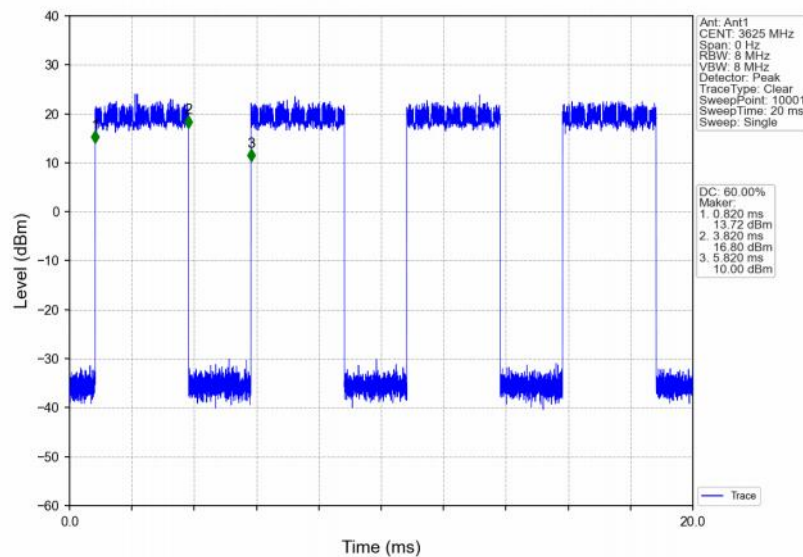
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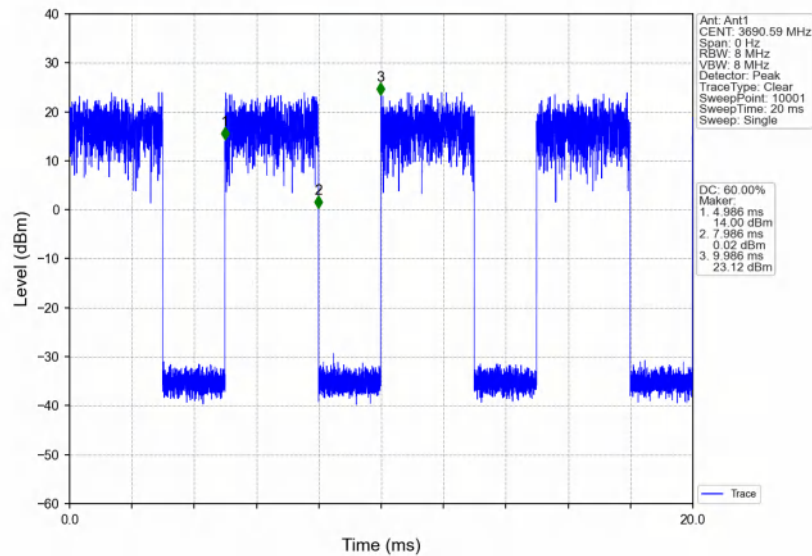


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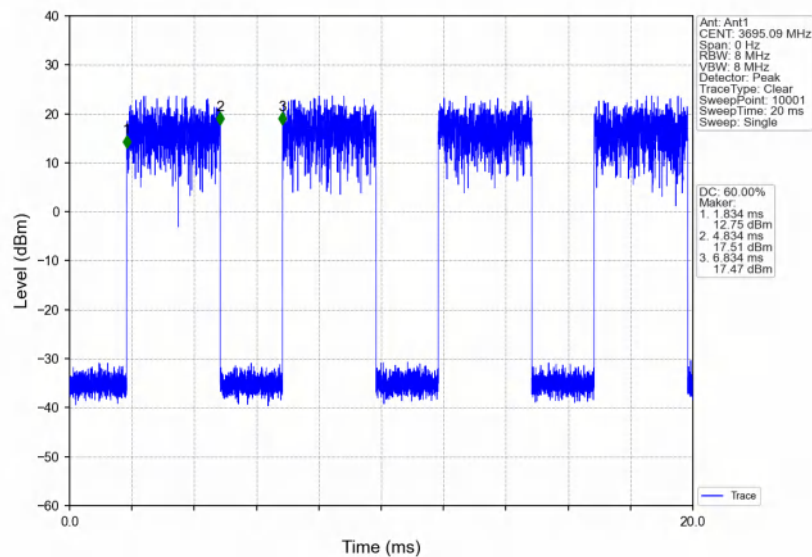
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Band48_10MHz_64QAM_HCH_3695MHz_RB_1_0_NTNV



Band48_10MHz_64QAM_HCH_3695MHz_RB_1_25_NTNV

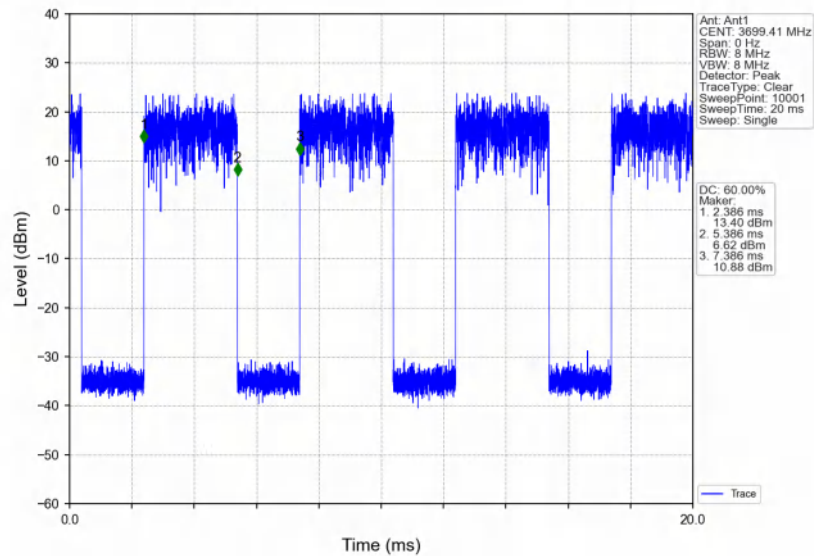


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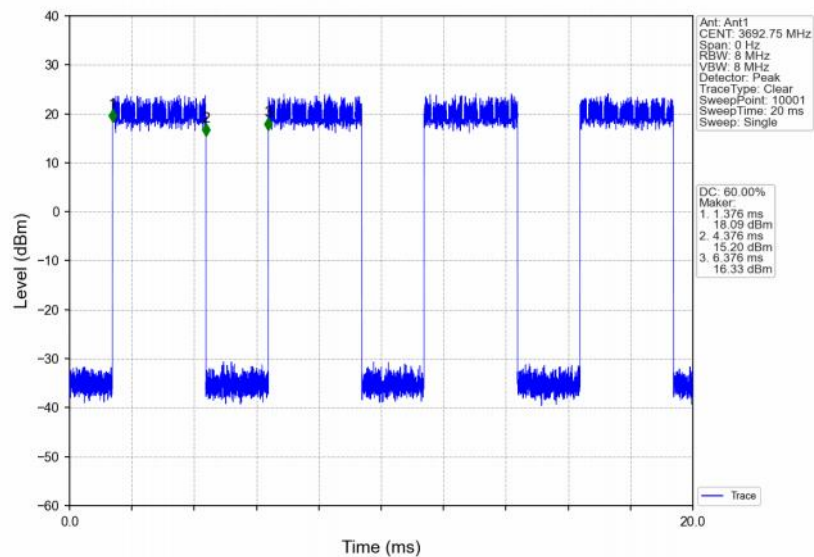
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Band48 10MHz 64QAM HCH 3695MHz RB 1 49 NTNV



Band48 10MHz 64QAM HCH 3695MHz RB 25 0 NTNV

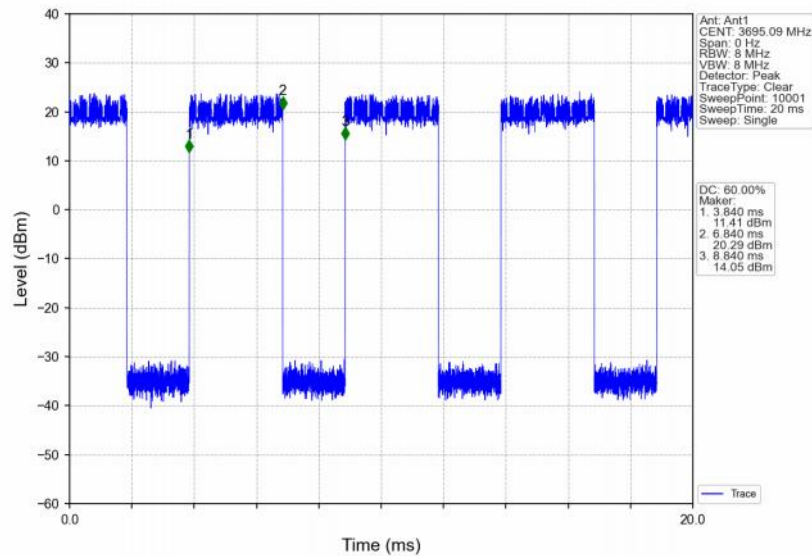


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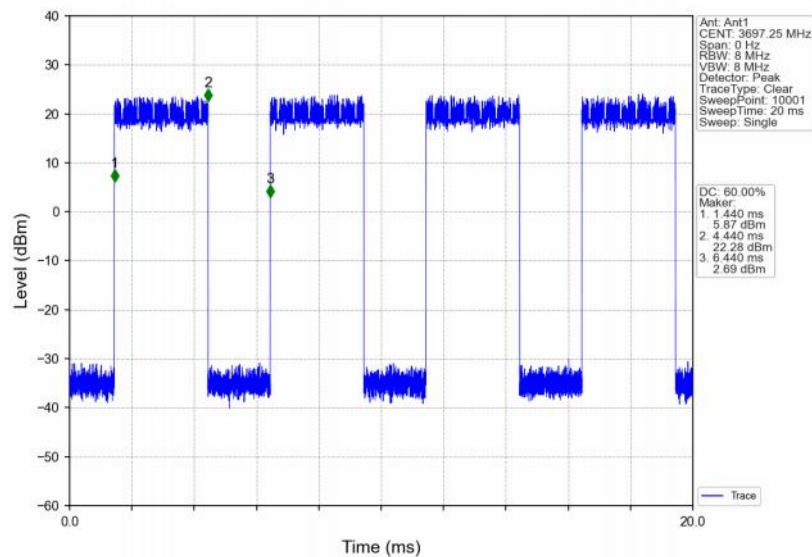
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Band48_10MHz_64QAM_HCH_3695MHz_RB_25_13_NTNV



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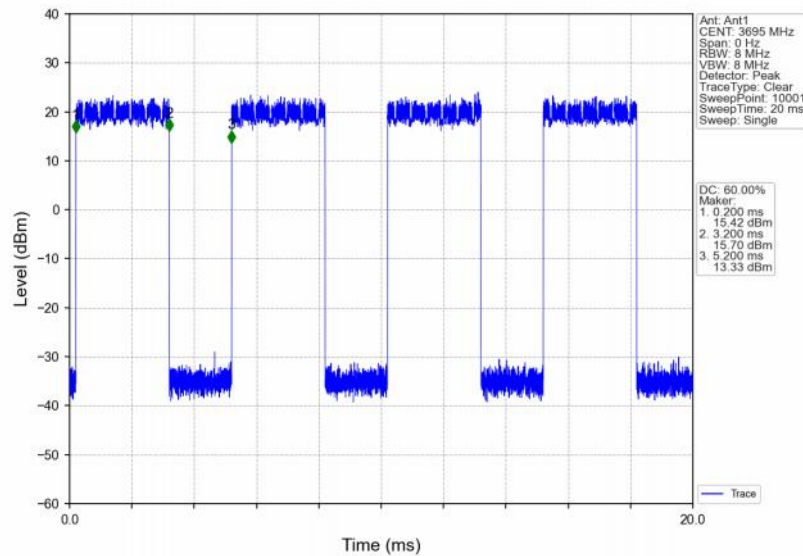


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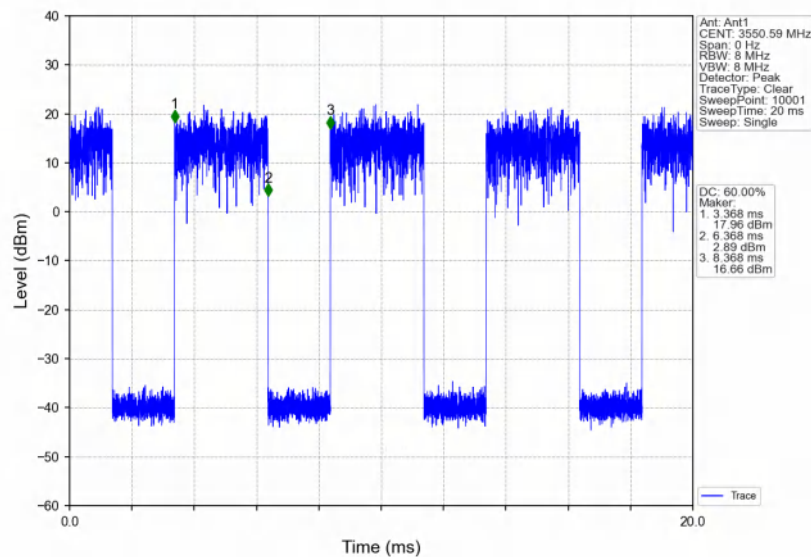
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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



Band48 10MHz 256QAM LCH 3555MHz RB 1 0 NTN

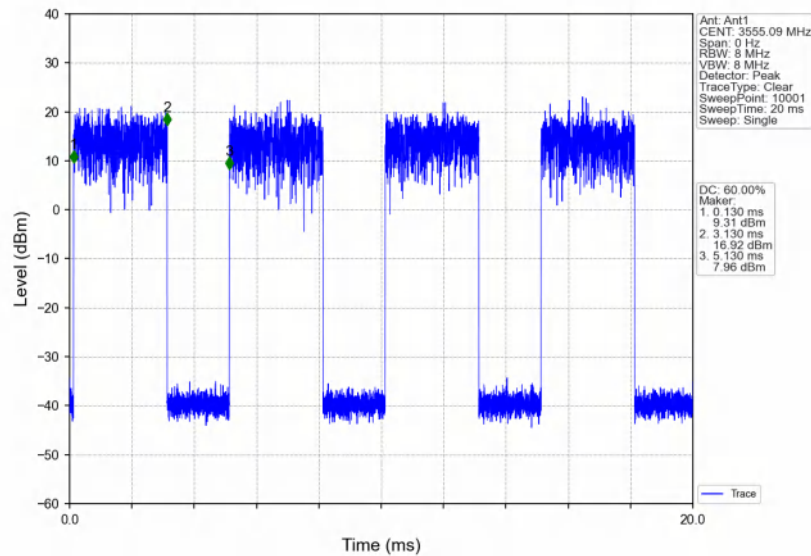


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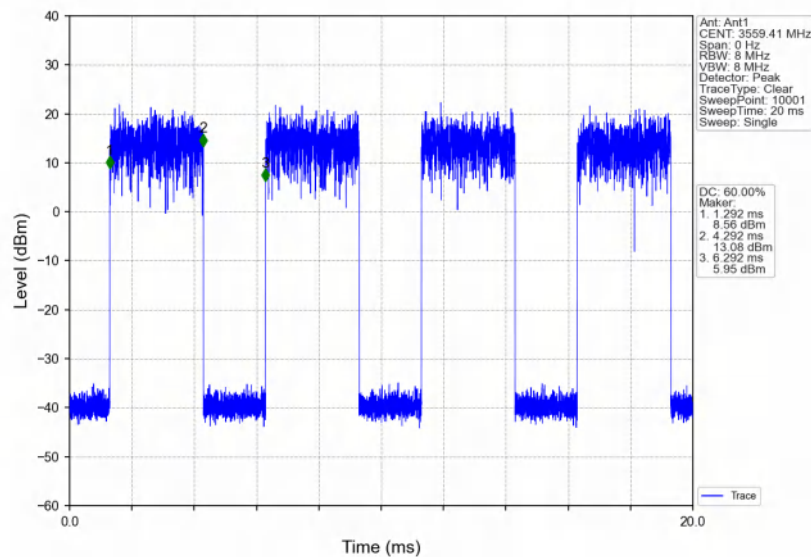
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Band48_10MHz_256QAM_LCH_3555MHz_RB_1_49_NTNV

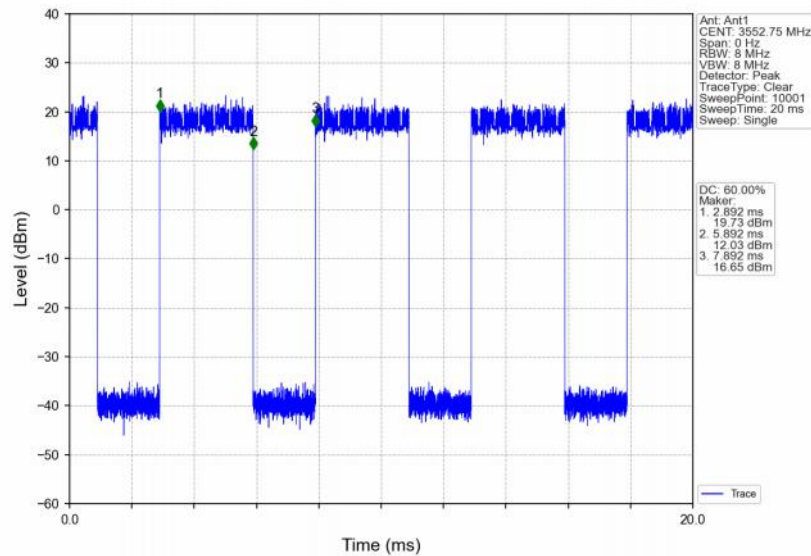


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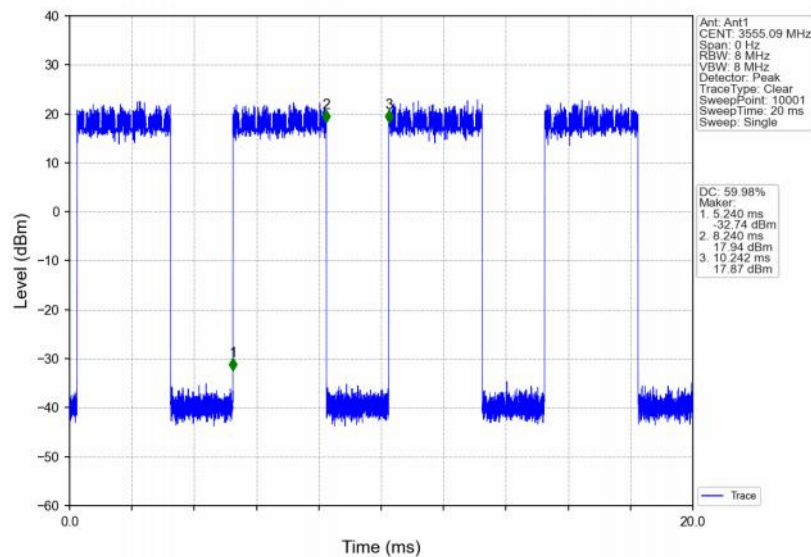
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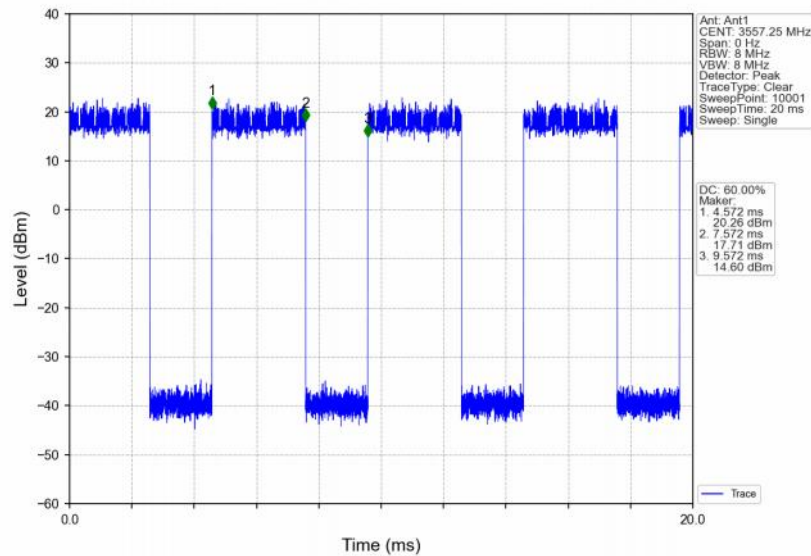


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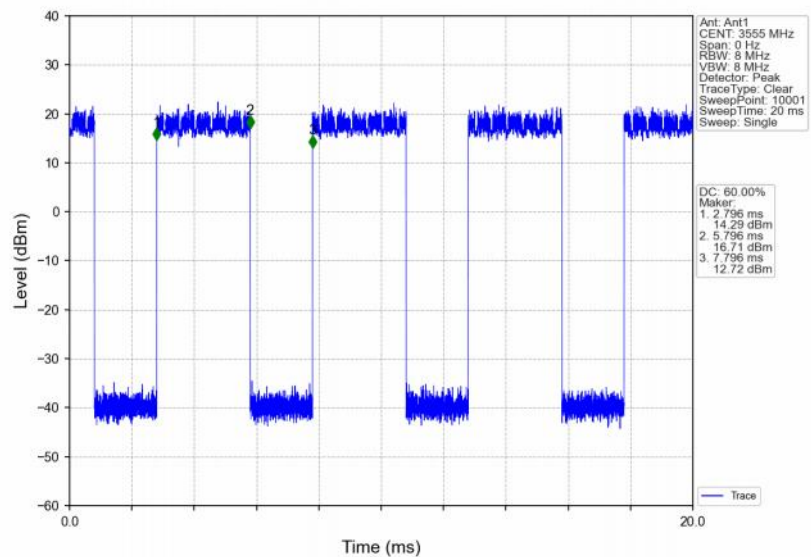
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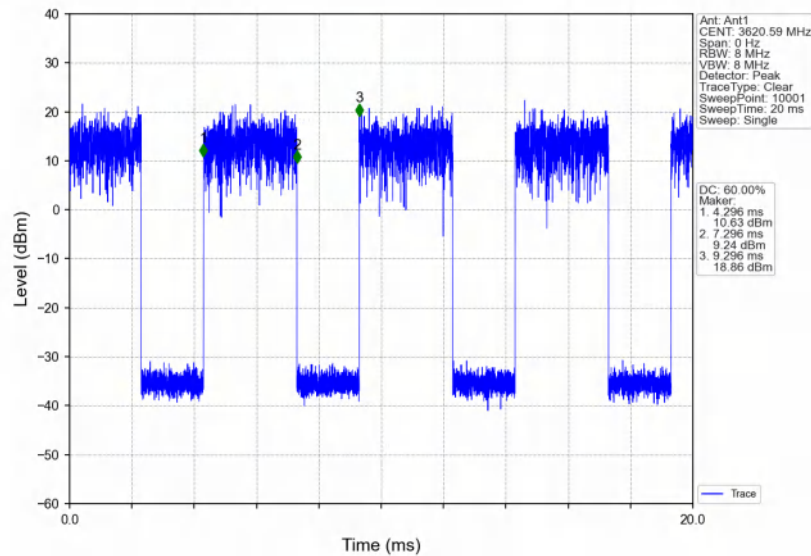


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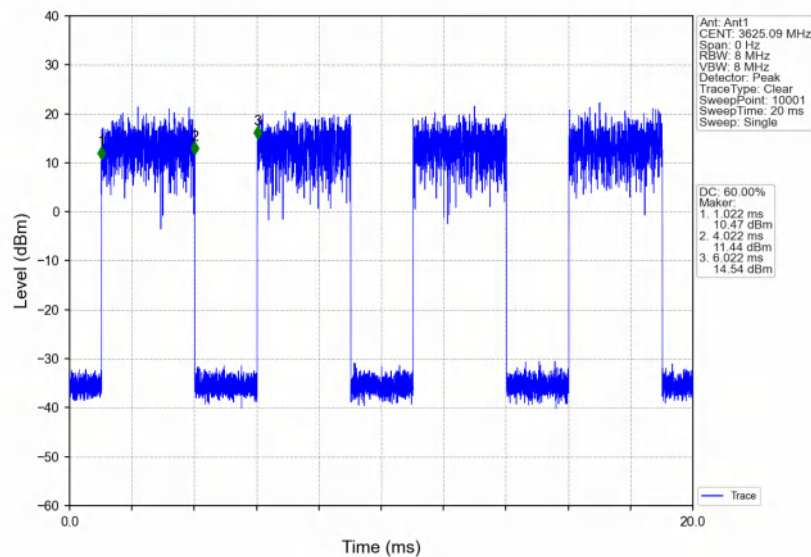
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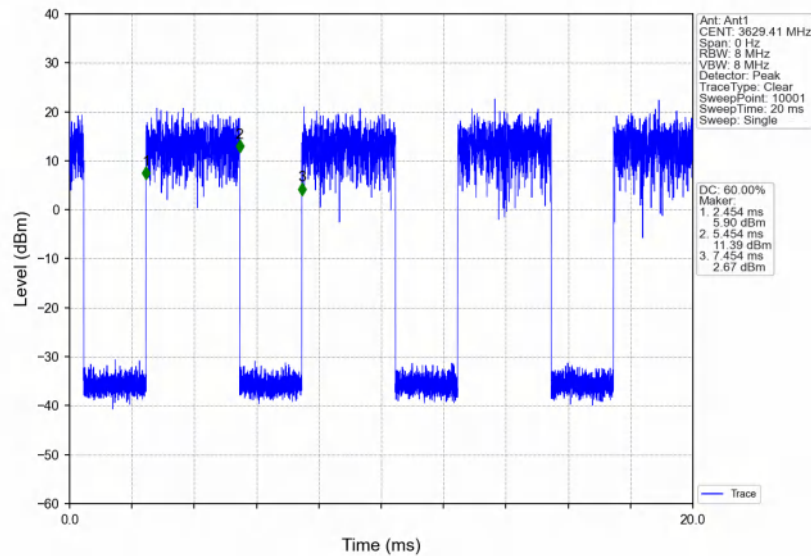


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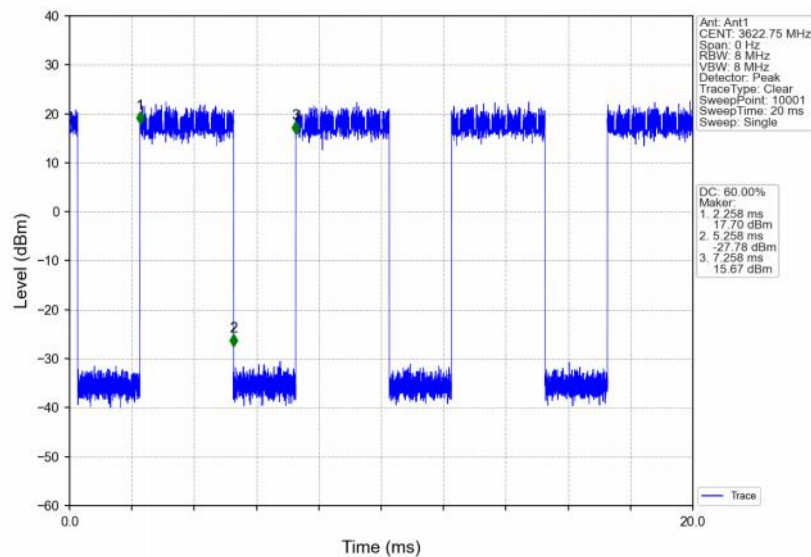
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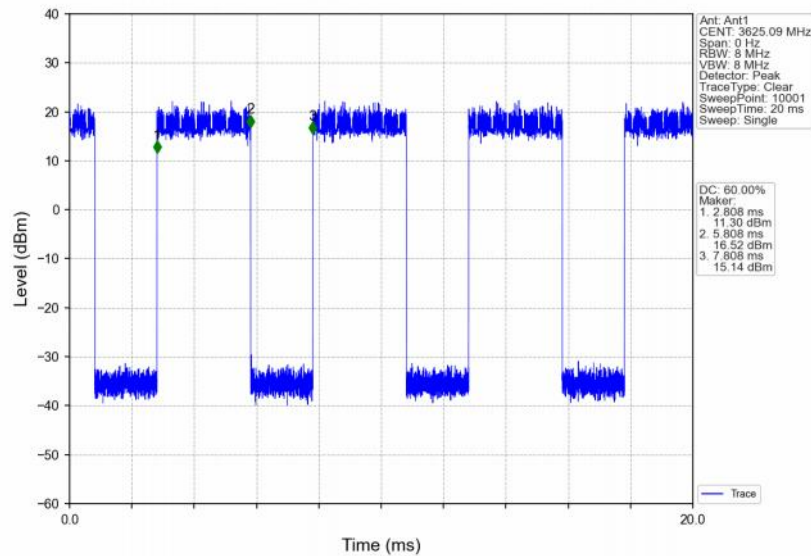


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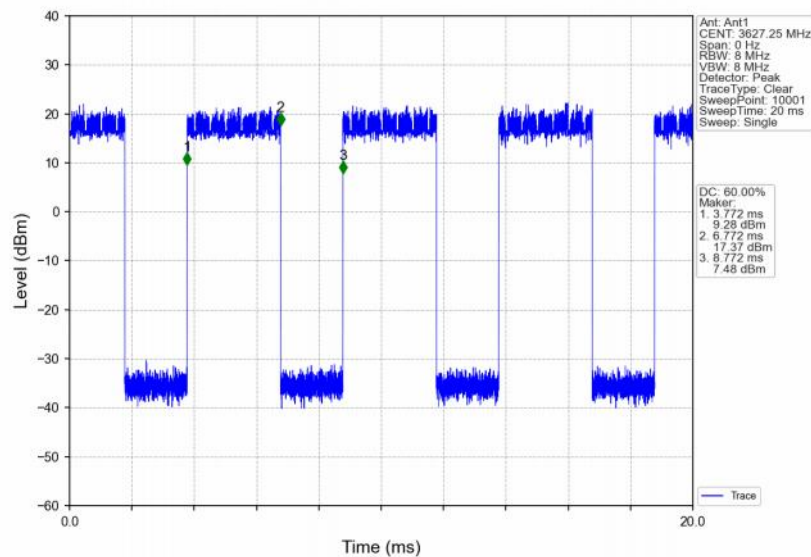
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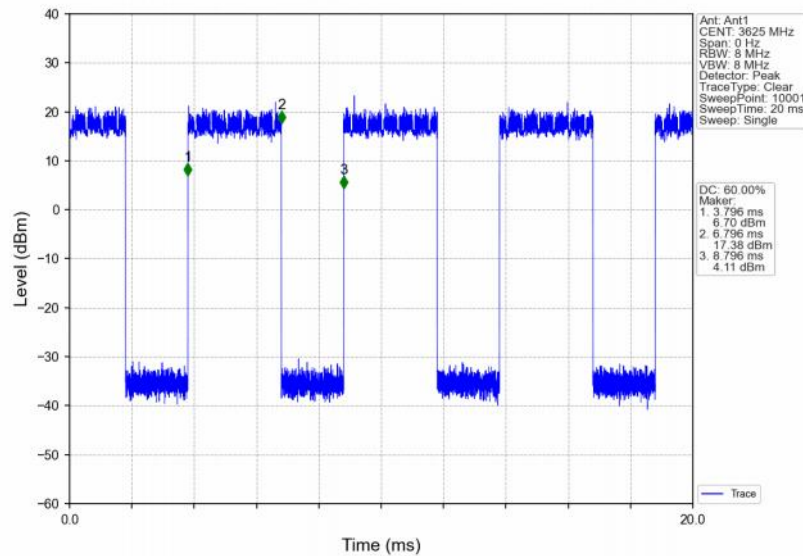


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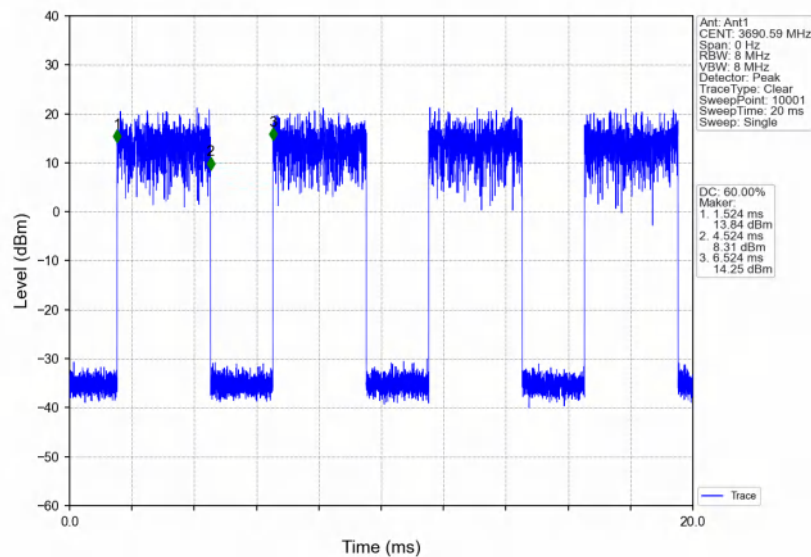
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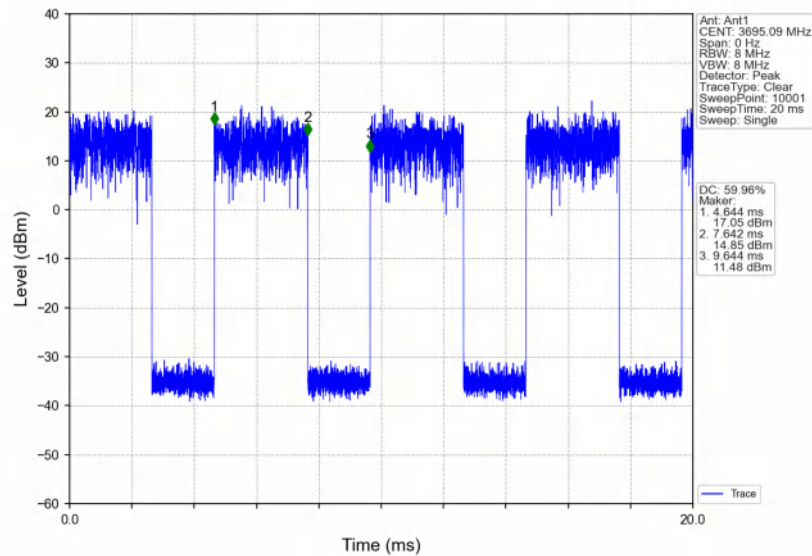


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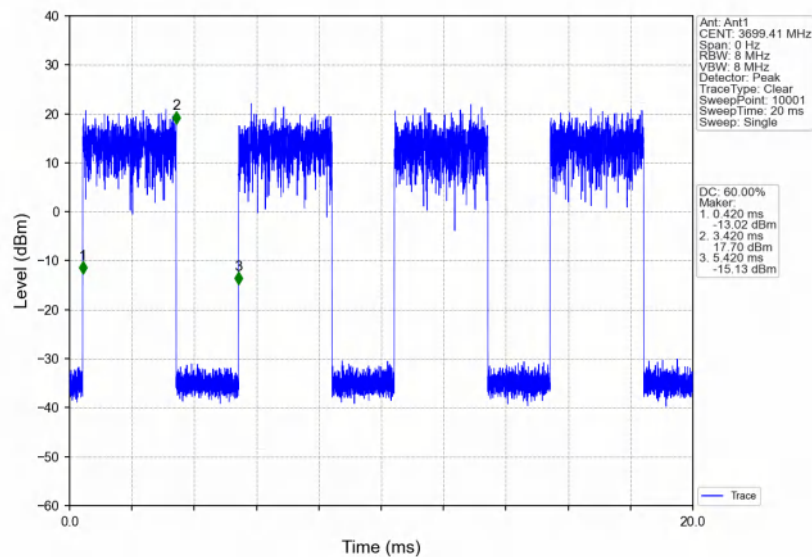
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