

Appendix B for KSCR2212002457AT-LTE-Band_48_ANT 3

1. Duty Cycle

1.1 B48_5MHz

1.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV										
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	2.998	5.000	59.96	2.22	0.04		
			13	3.000	5.000	60.00	2.22	0.00		
			24	2.998	5.000	59.96	2.22	0.06		
		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	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	5.002	59.98	2.22	0.02		
	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	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		



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			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		
64QAM	3552.5	1	0	3.000	5.000	60.00	2.22	0.00		
			13	2.998	5.000	59.96	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	5.000	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	3.000	5.002	59.98	2.22	0.02		
			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	2.998	5.000	59.96	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	0.00	
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	3.000	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	2.998	5.000	59.96	2.22	0.00		
			13	3.000	5.002	59.98	2.22	0.02		
25			0	3.000	5.000	60.00	2.22	0.00		

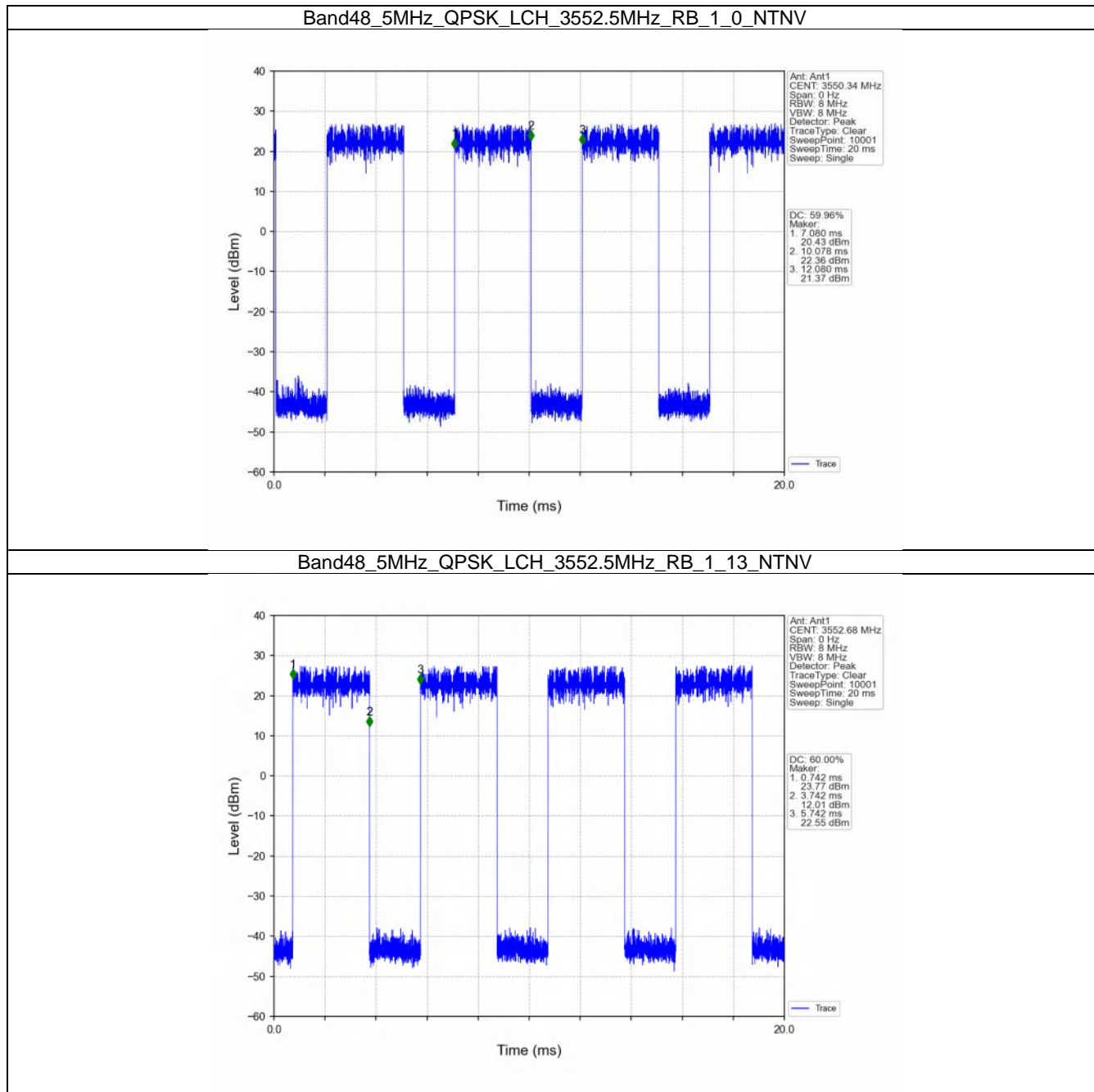


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1.1.2 Test Graph

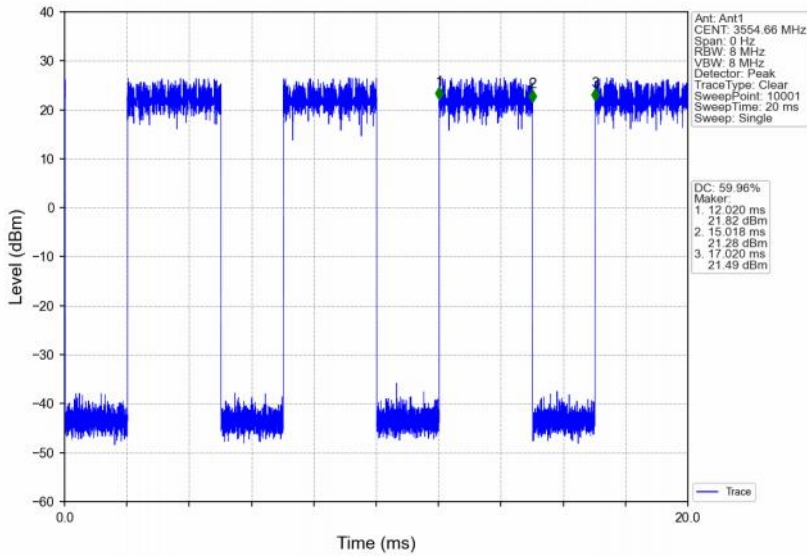


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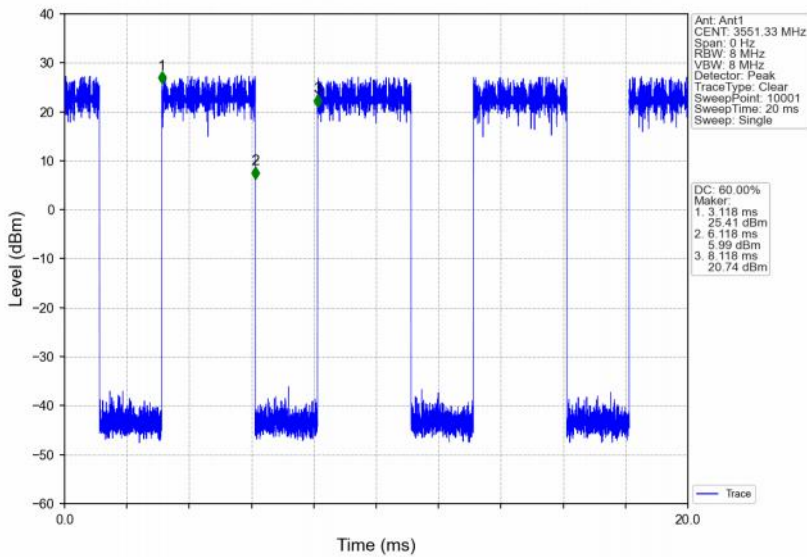
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_24_NTV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_0_NTV

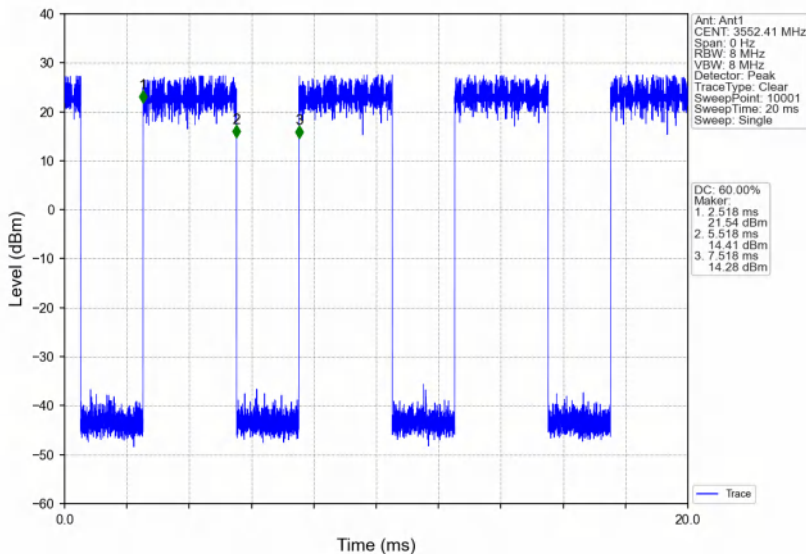


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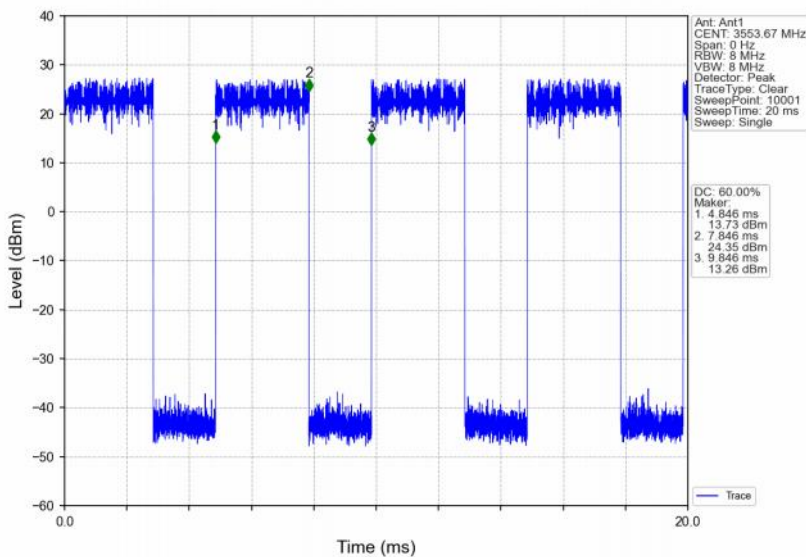
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_6_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_12_13_NTNV

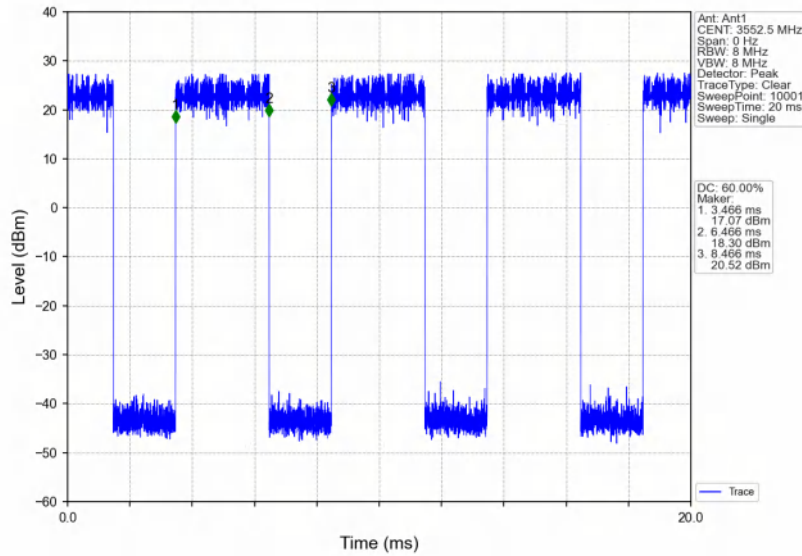


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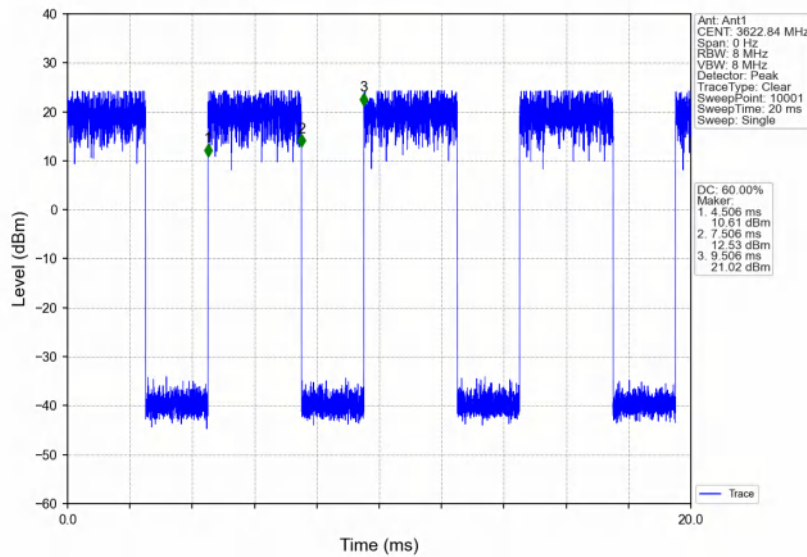
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV

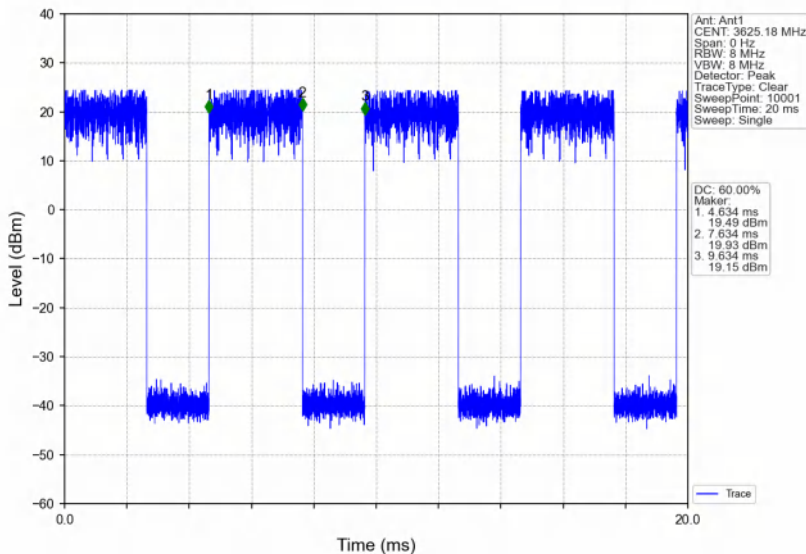


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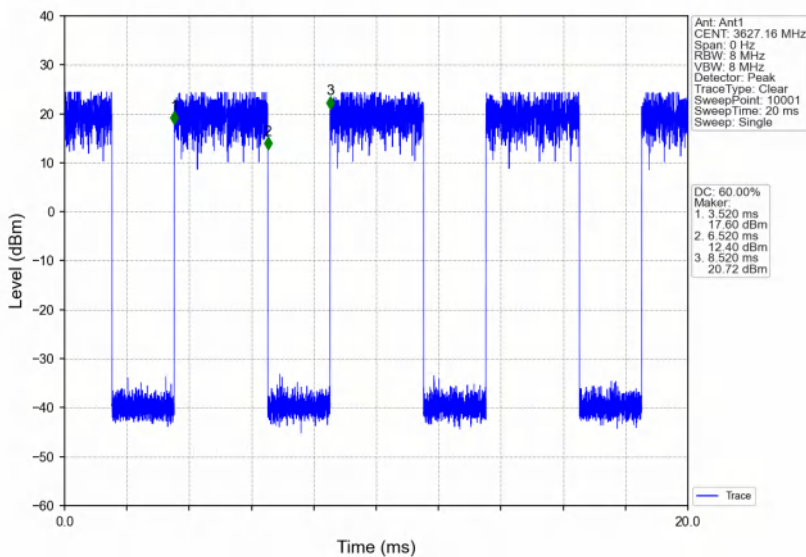
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Band48_5MHz_QPSK_MCH_3625MHz_RB_1_13_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_1_24_NTNV

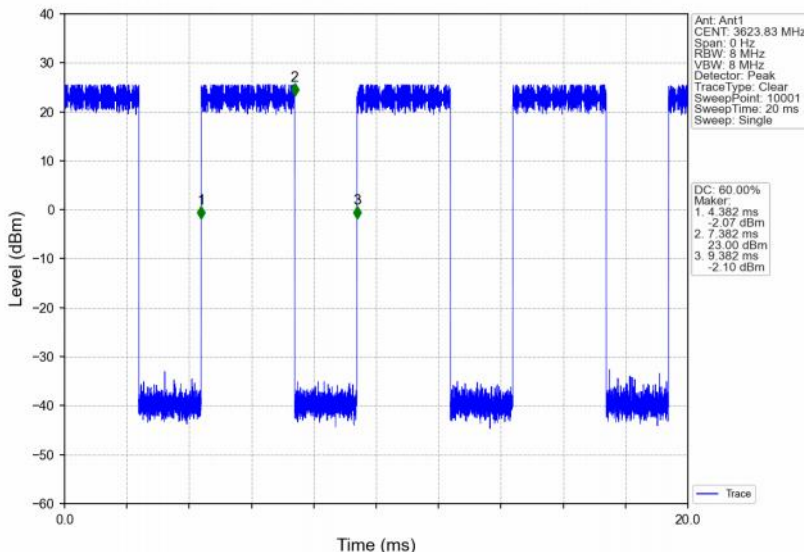


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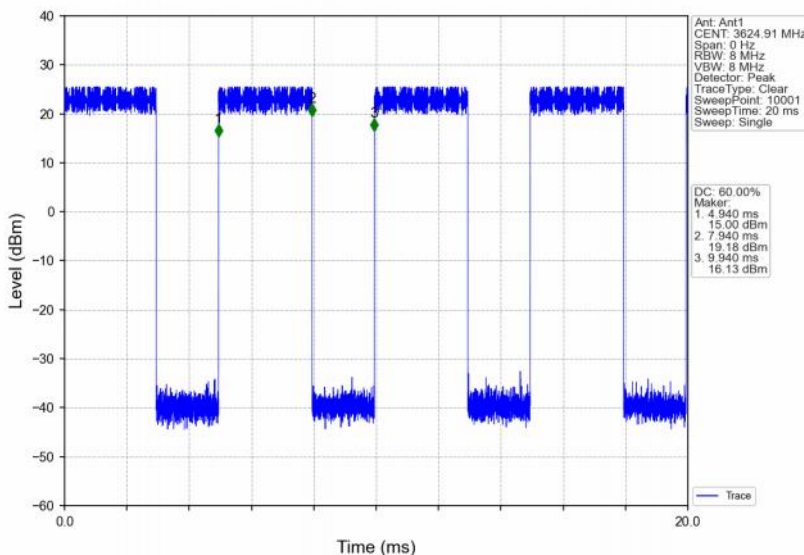
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Band48_5MHz_QPSK_MCH_3625MHz_RB_12_0_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_12_6_NTNV

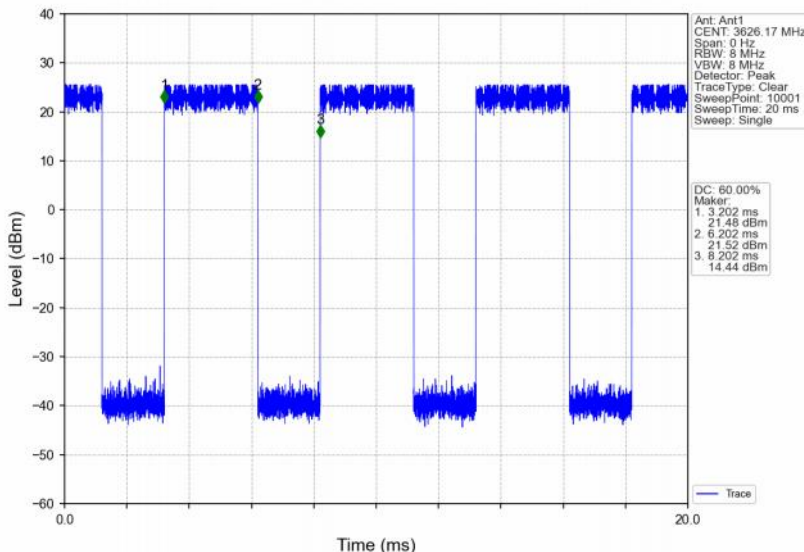


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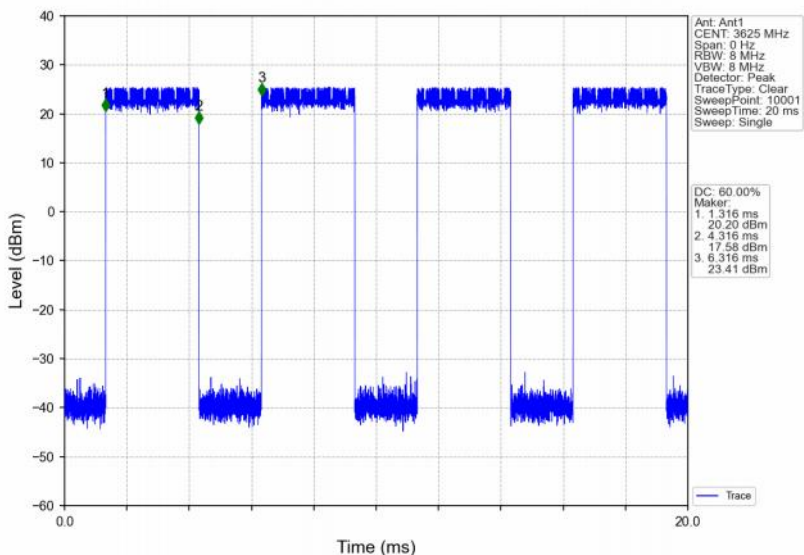
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Band48_5MHz_QPSK_MCH_3625MHz_RB_12_13_NTNV



Band48_5MHz_QPSK_MCH_3625MHz_RB_25_0_NTNV

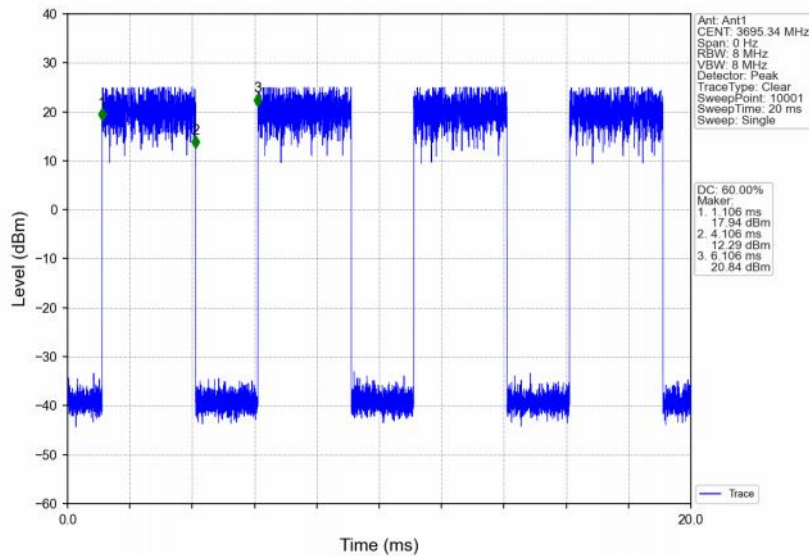


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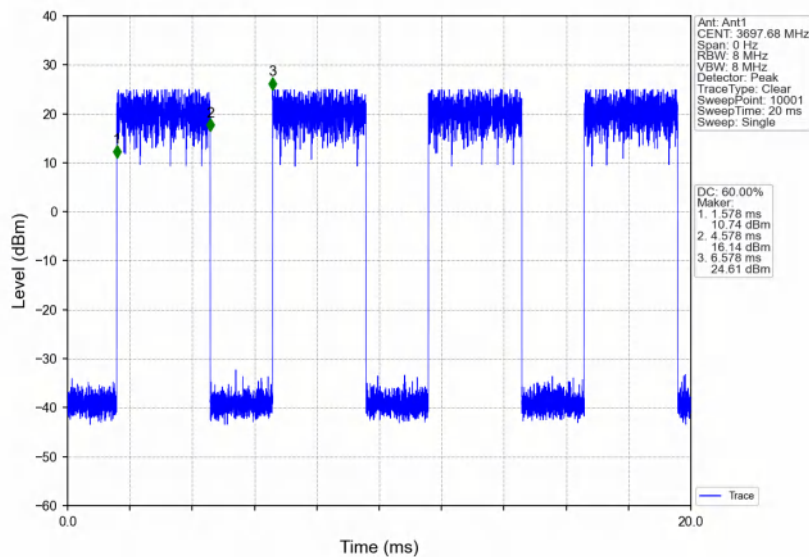
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_13_NTNV

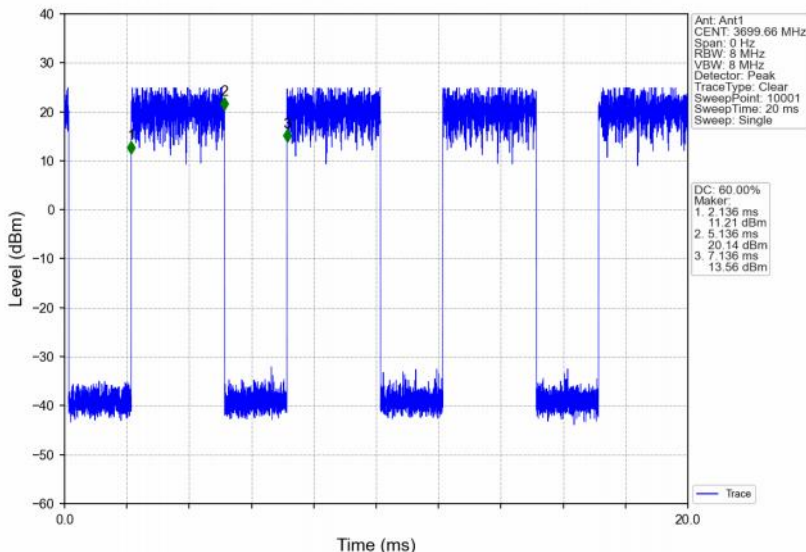


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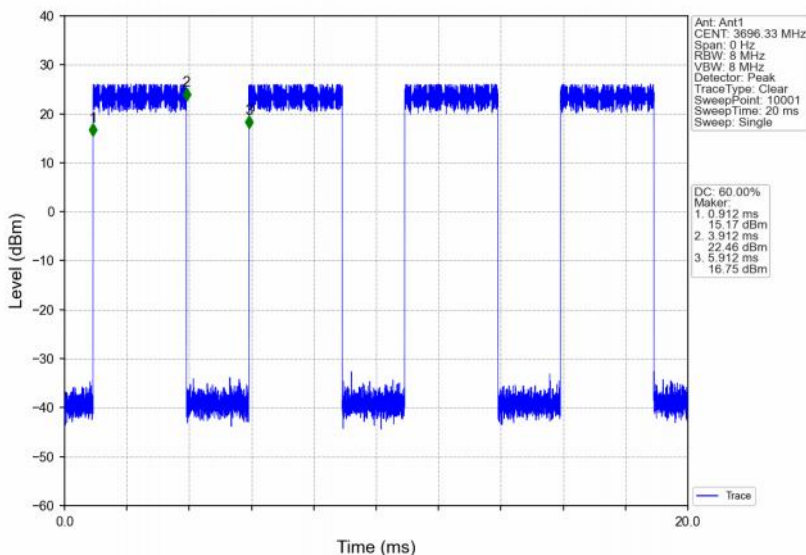
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_0_NTNV

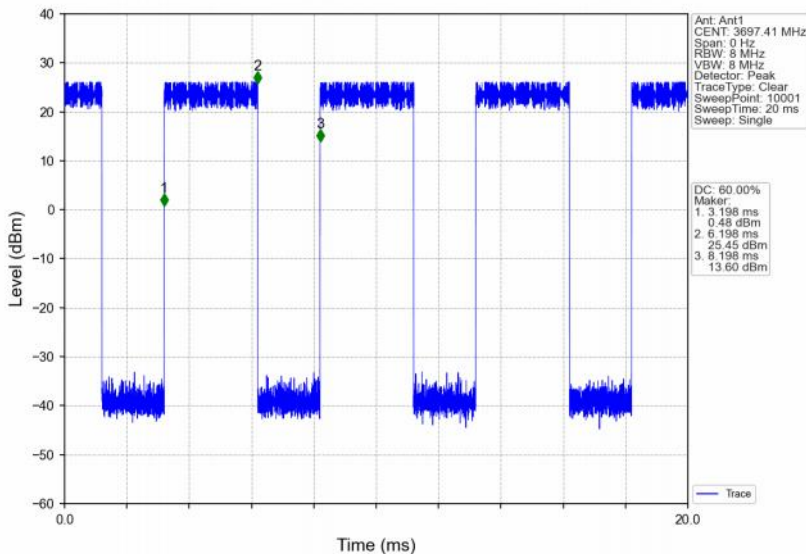


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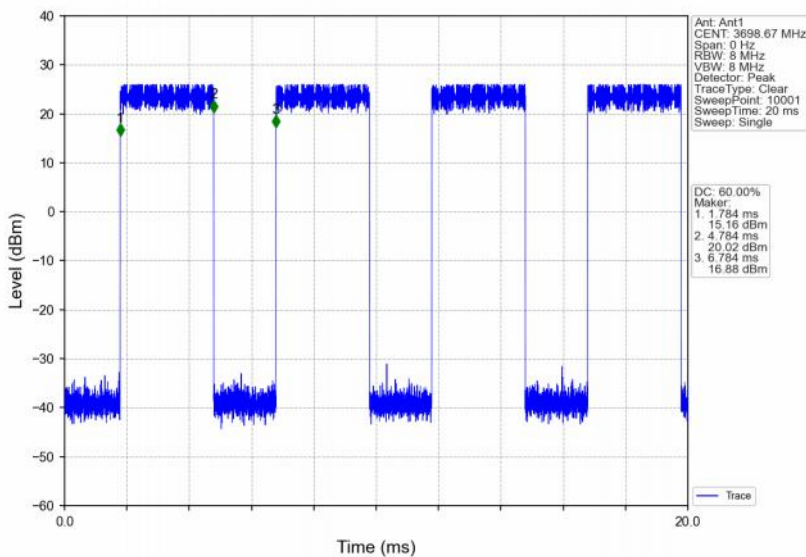
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_6_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_12_13_NTNV

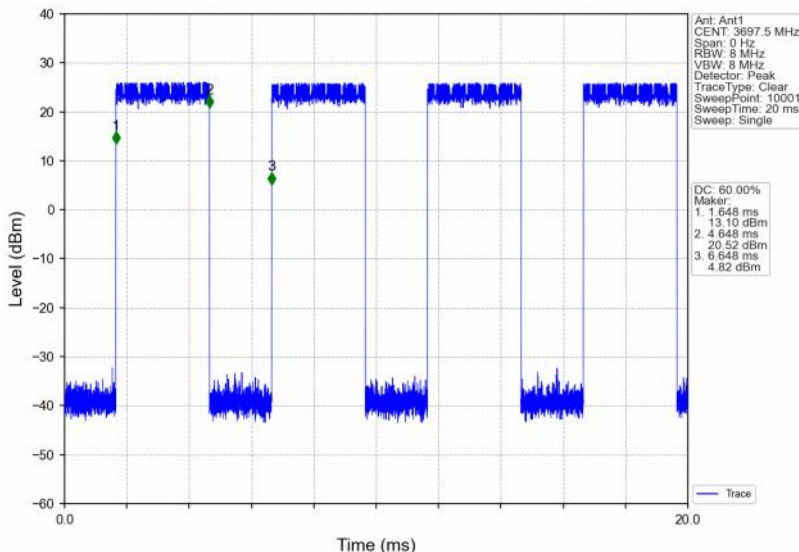


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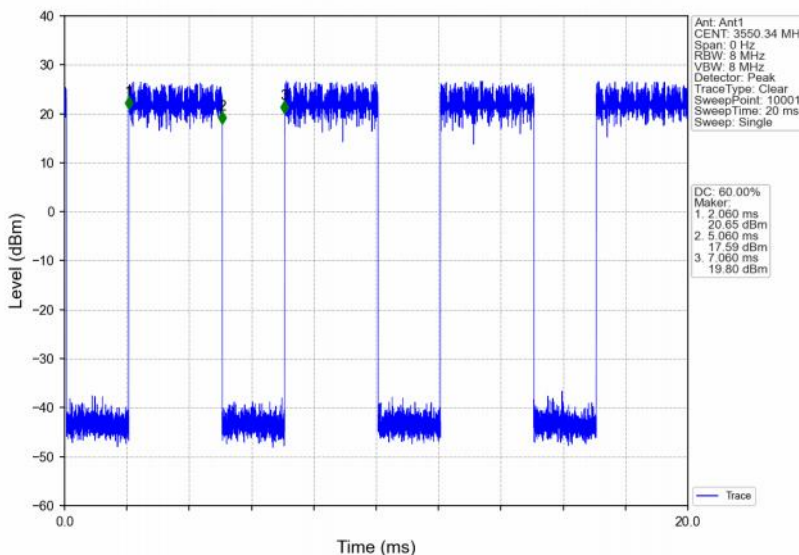
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_0_NTNV

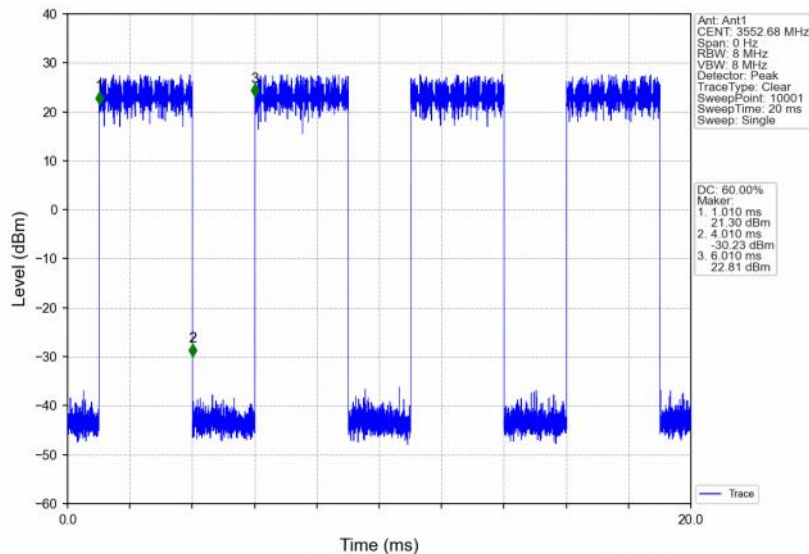


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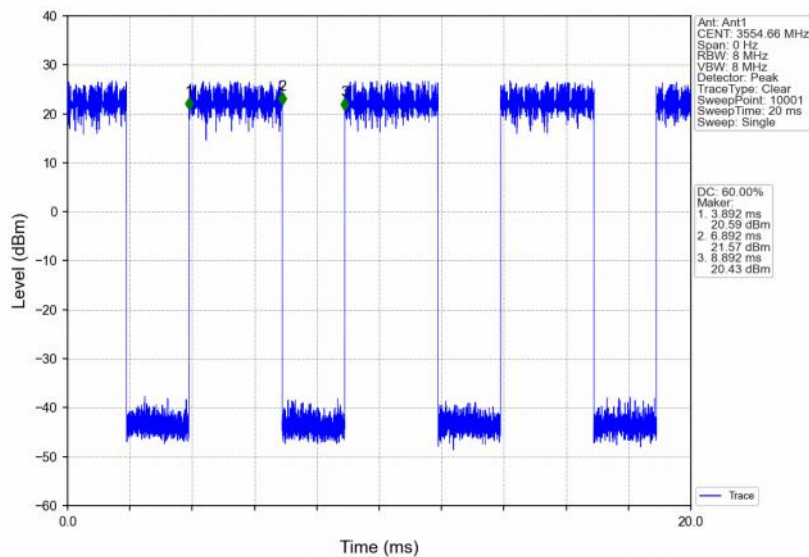
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_13_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_1_24_NTNV

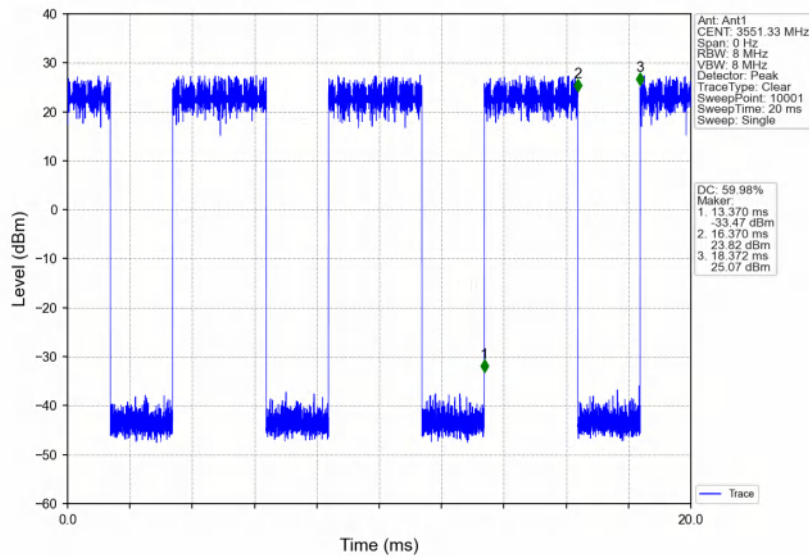


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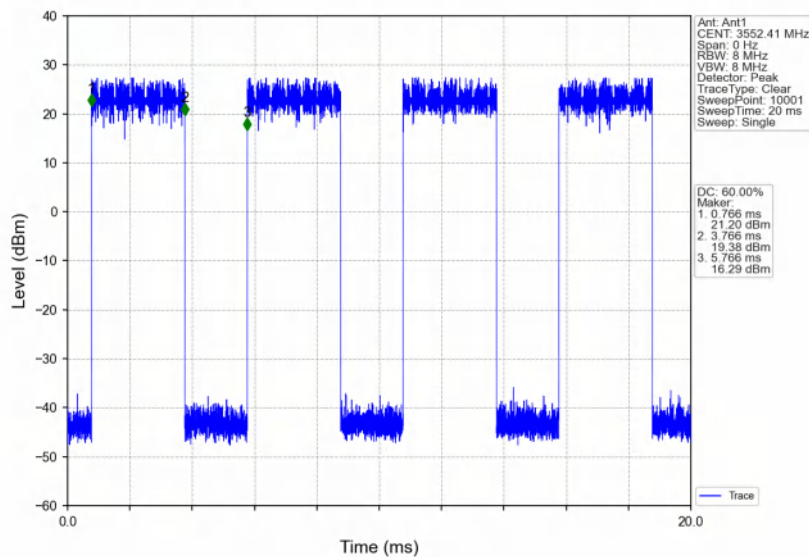
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_12_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_12_6_NTNV

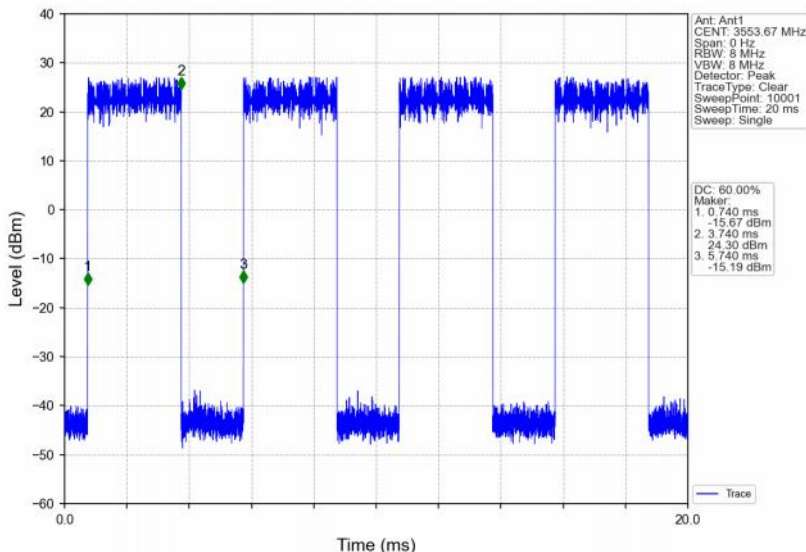


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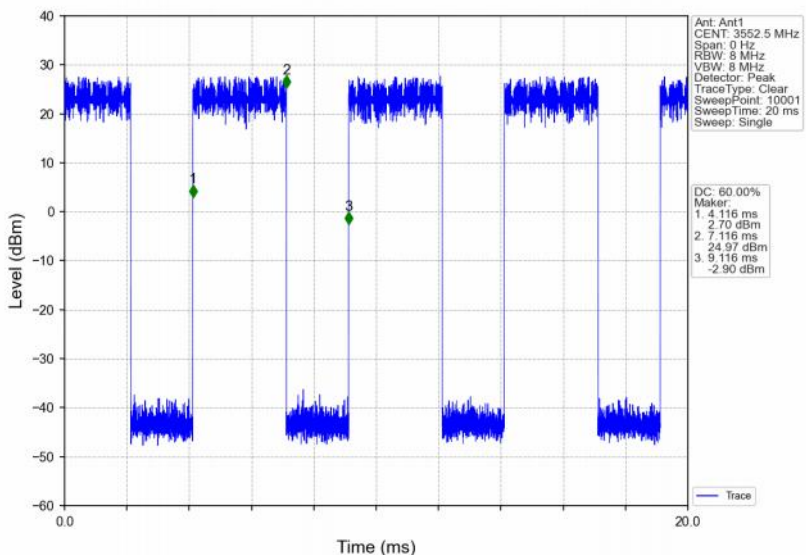
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_12_13_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV

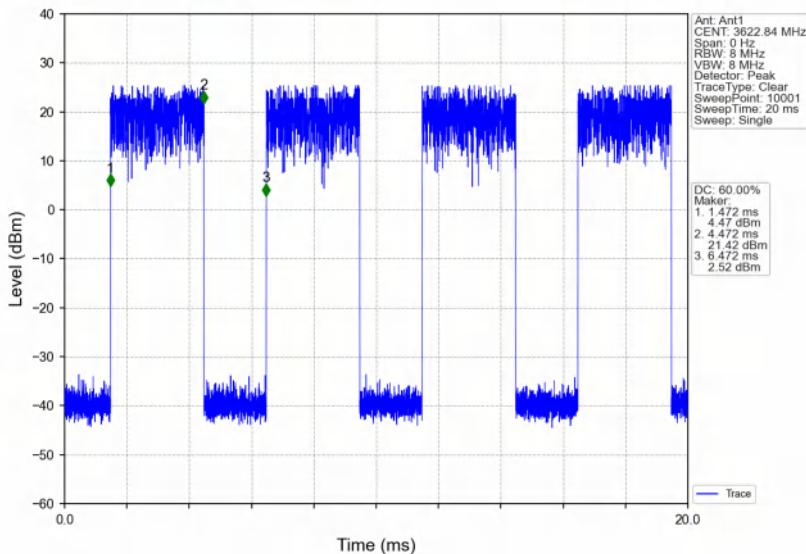


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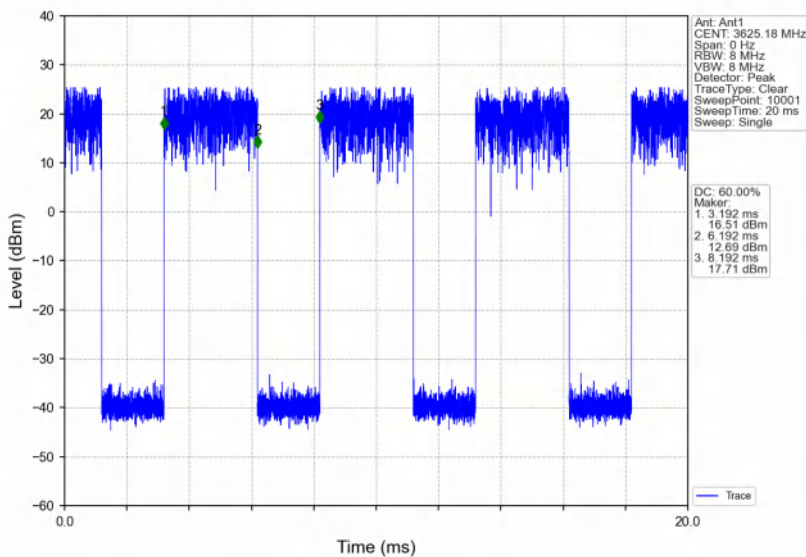
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Band48_5MHz_16QAM_MCH_3625MHz_RB_1_0_NTNV



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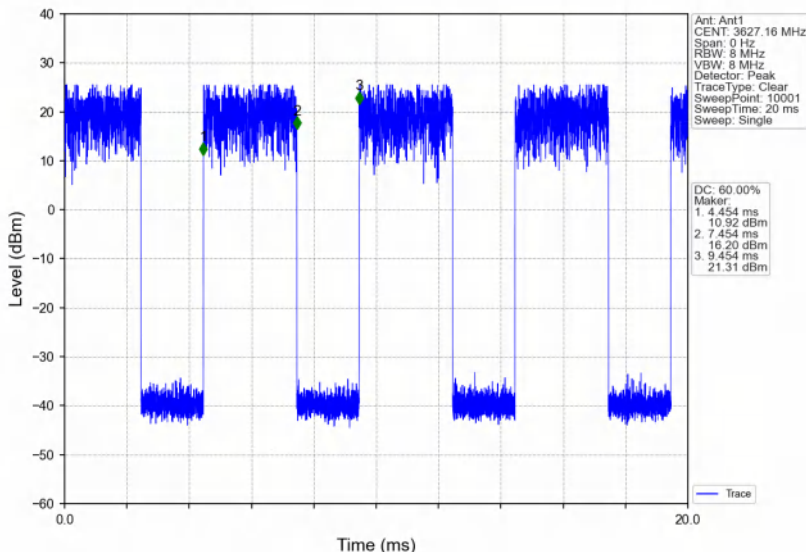


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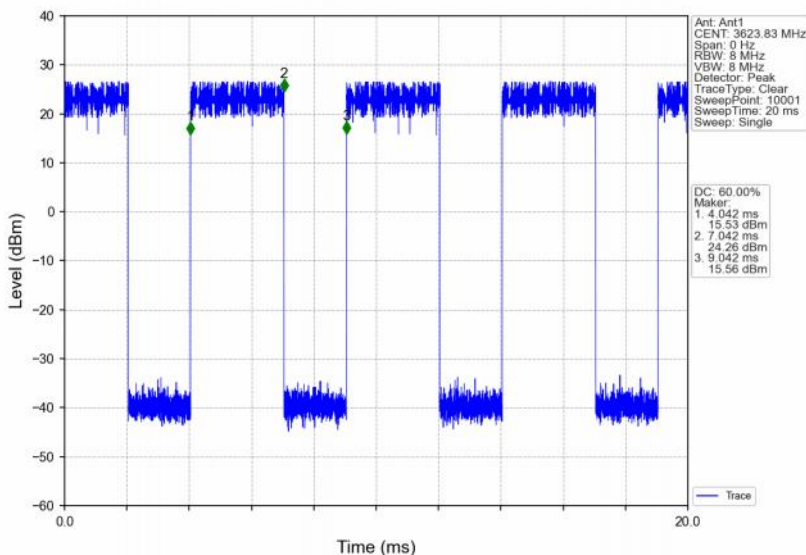
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Band48_5MHz_16QAM_MCH_3625MHz_RB_1_24_NTNV



Band48_5MHz_16QAM_MCH_3625MHz_RB_12_0_NTNV

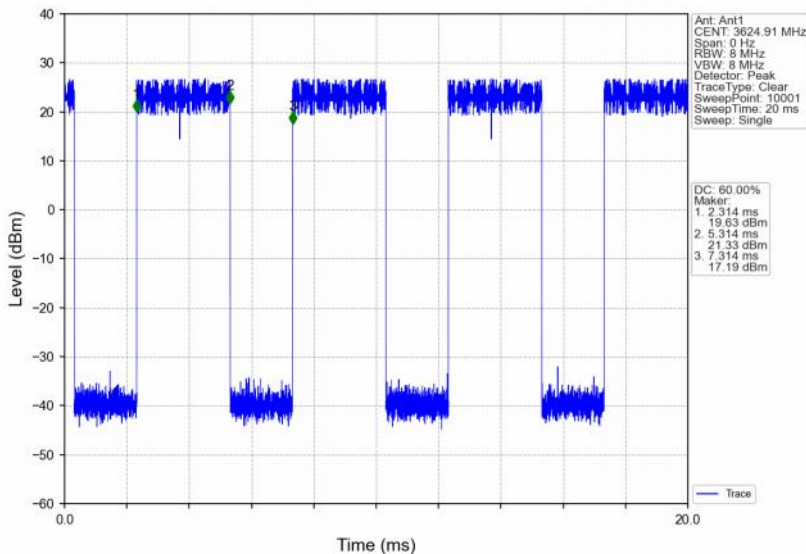


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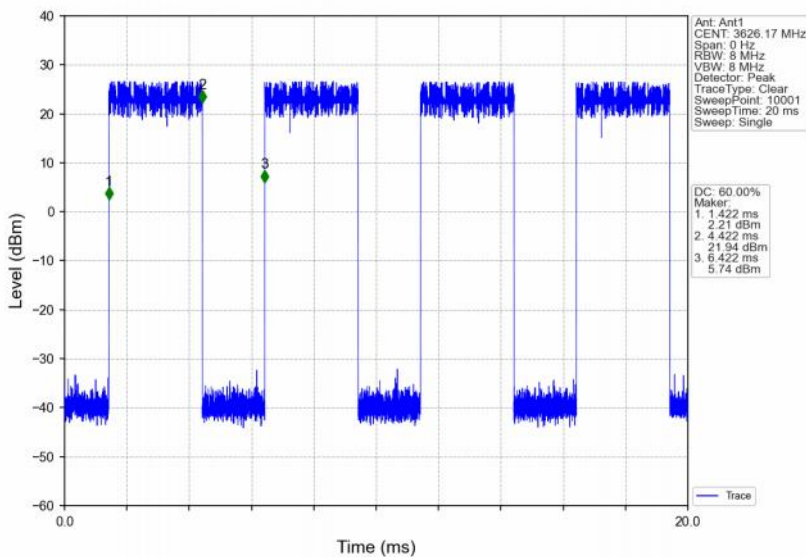
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Band48_5MHz_16QAM_MCH_3625MHz_RB_12_13_NTNV

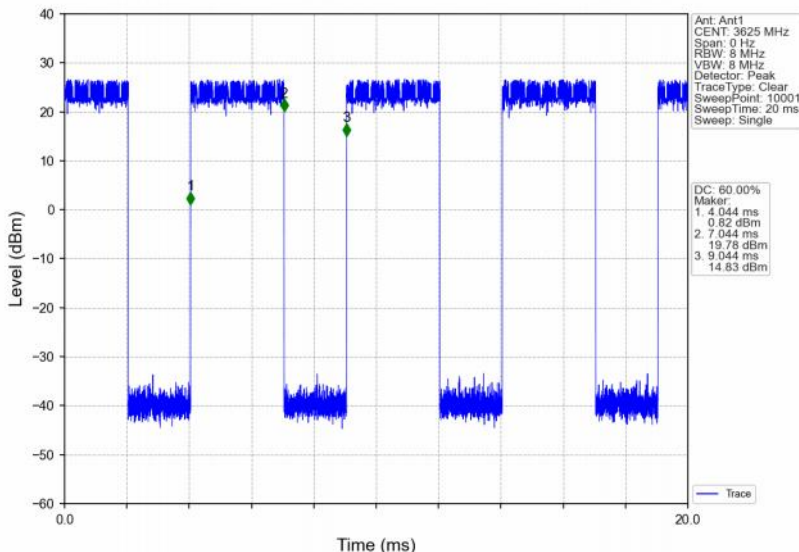


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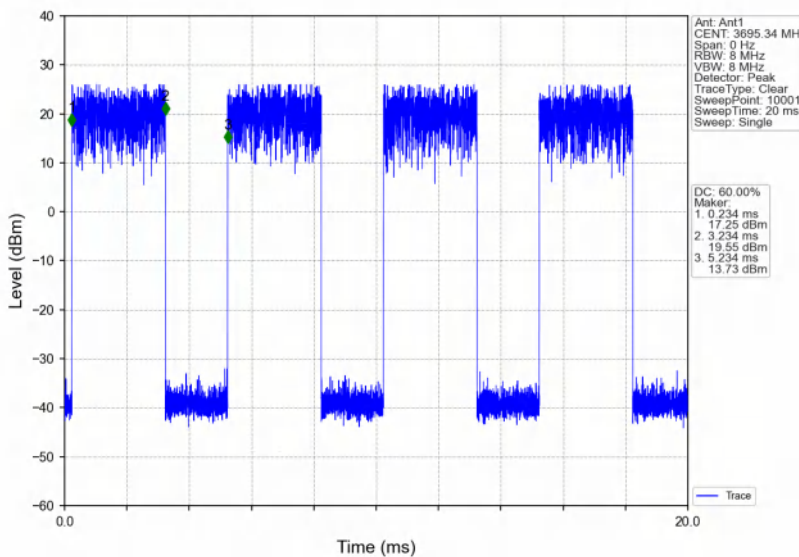
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Band48_5MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_HCH_3697.5MHz_RB_1_0_NTNV

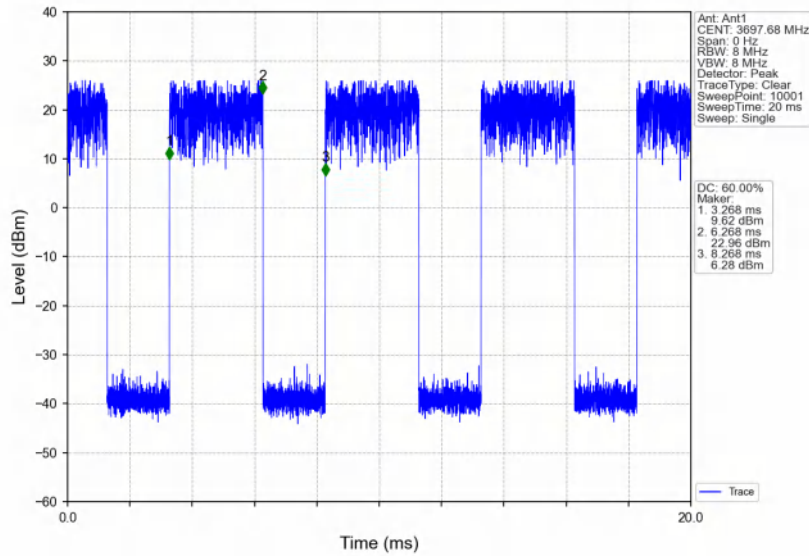


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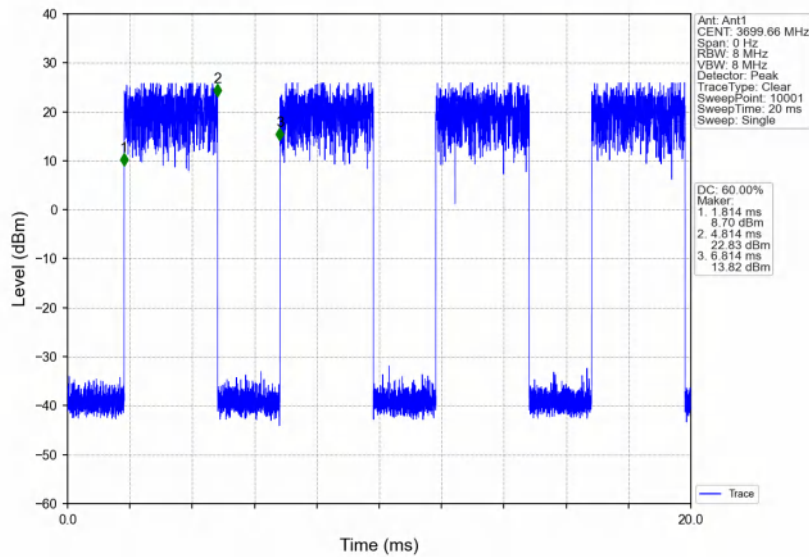
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_1_24_NTNV

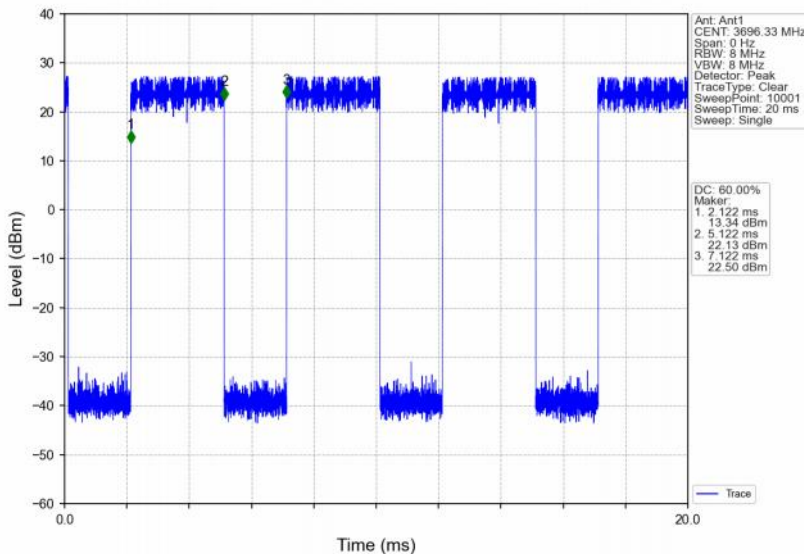


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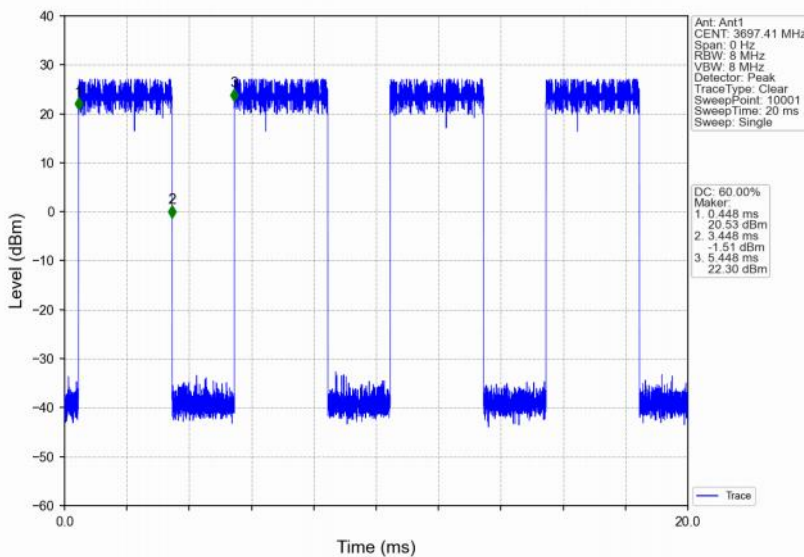
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_12_0_NTNV



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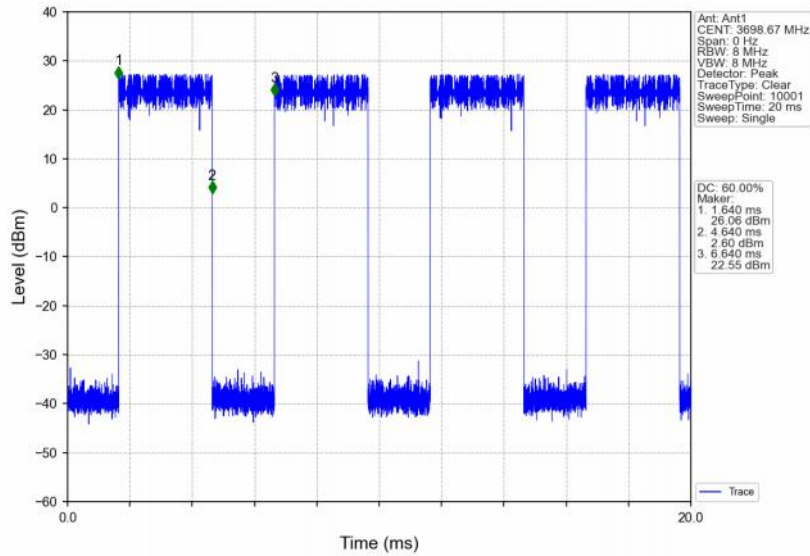


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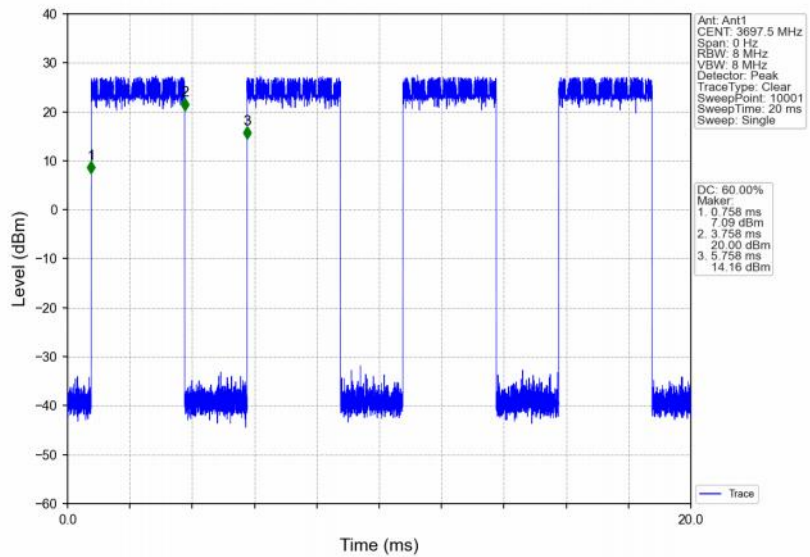
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV

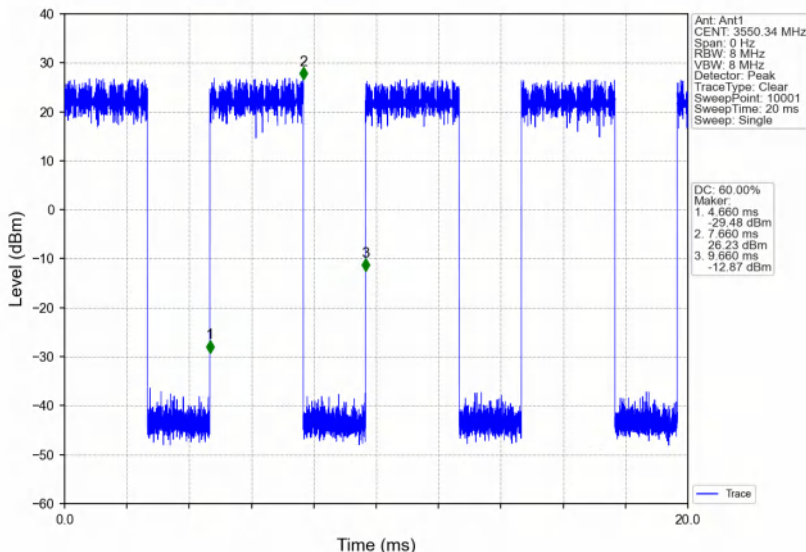


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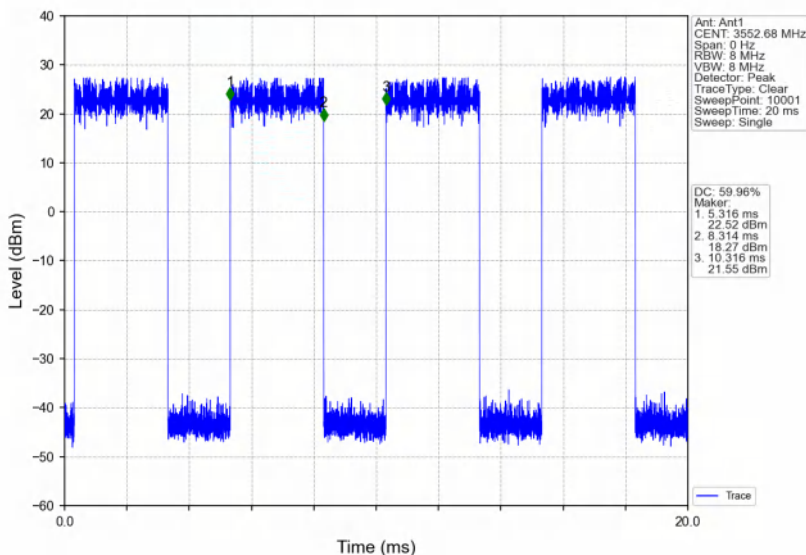
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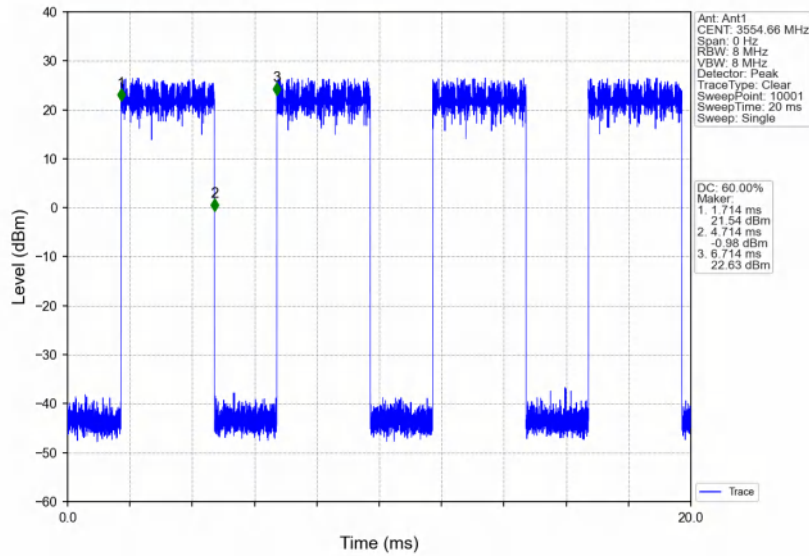


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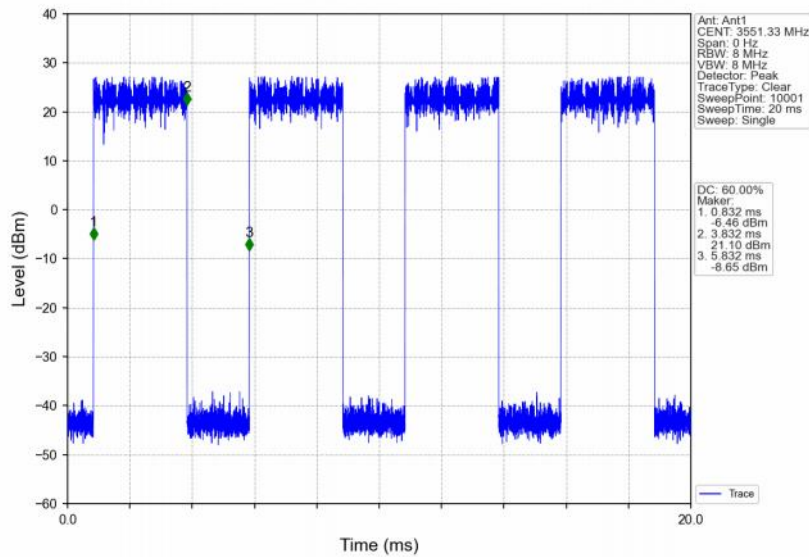
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_1_24_NTNV



Band48_5MHz_64QAM_LCH_3552.5MHz_RB_12_0_NTNV

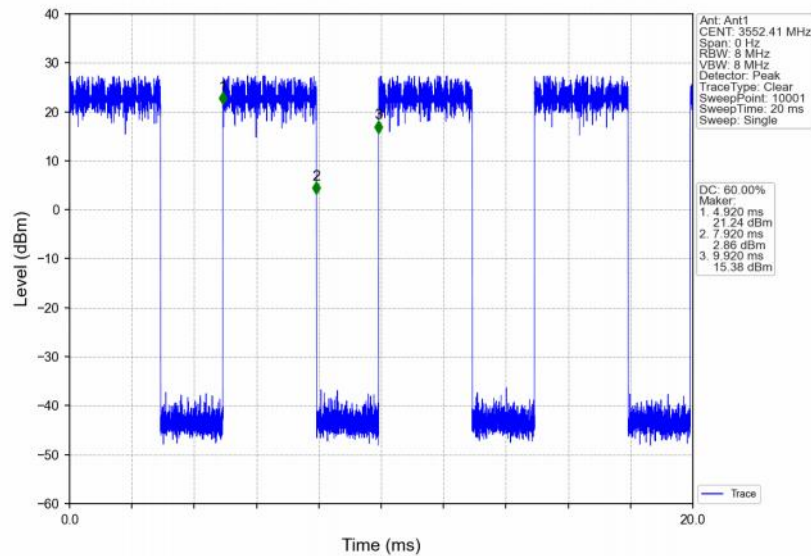


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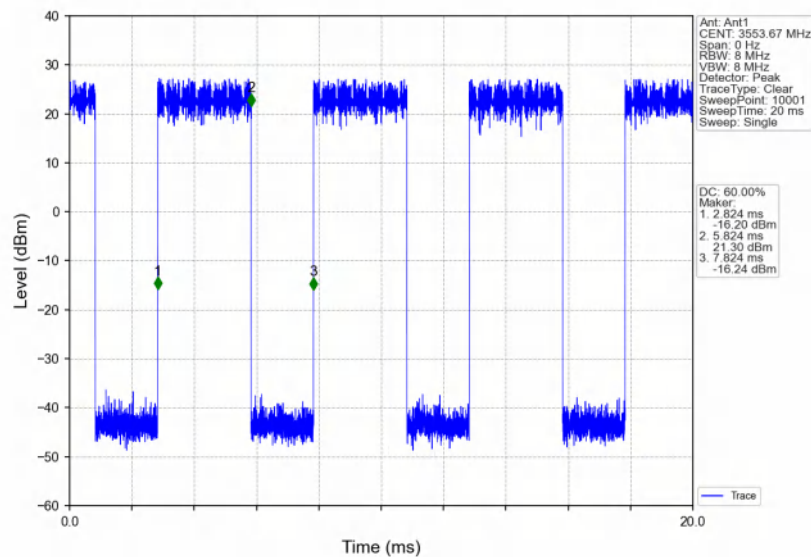
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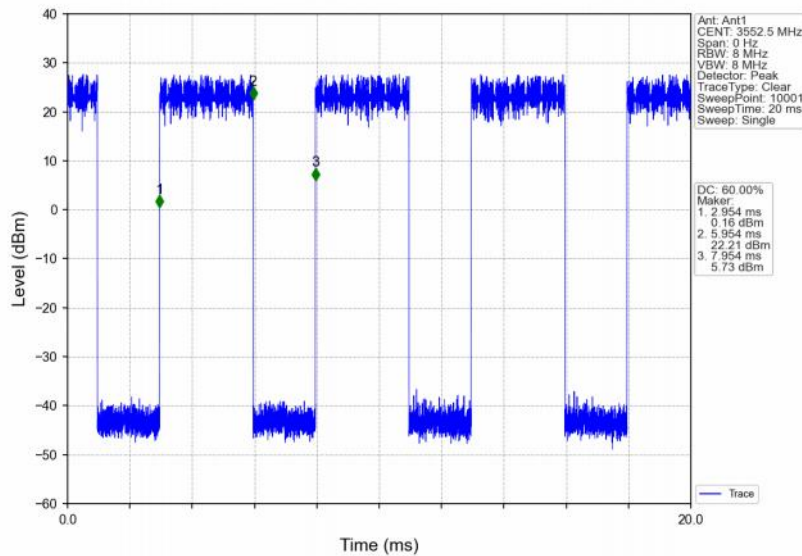


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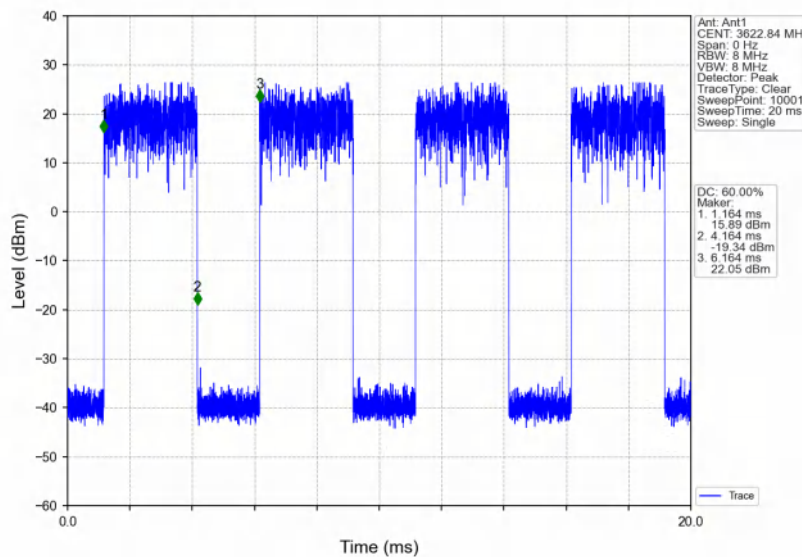
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_64QAM_MCH_3625MHz_RB_1_0_NTNV

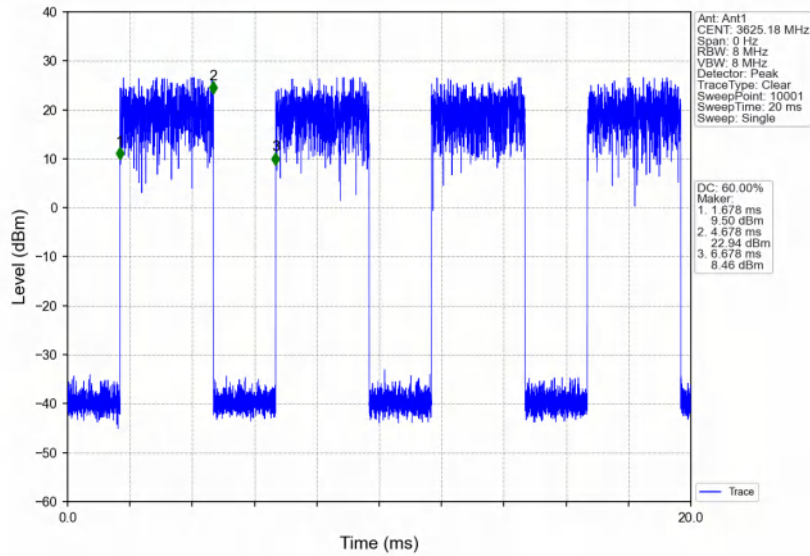


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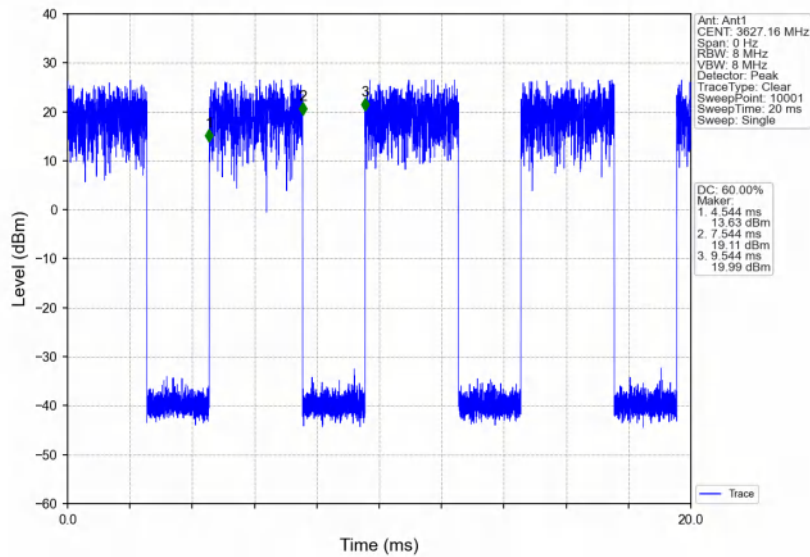
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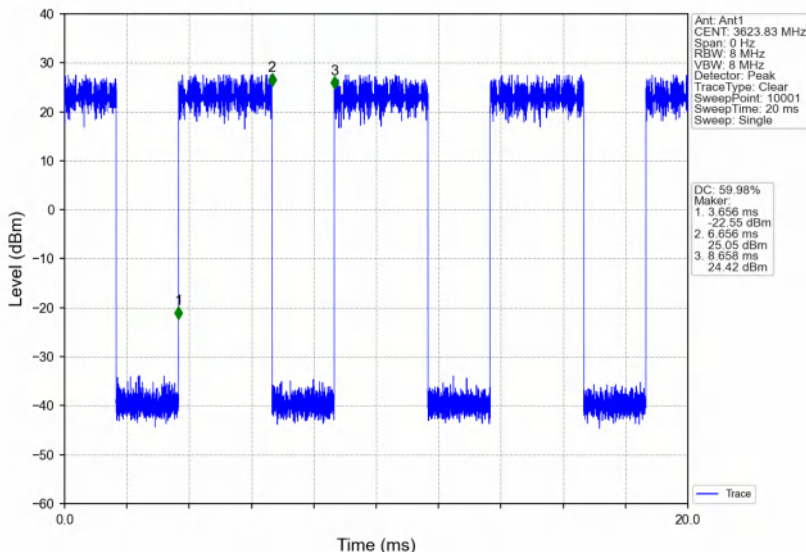


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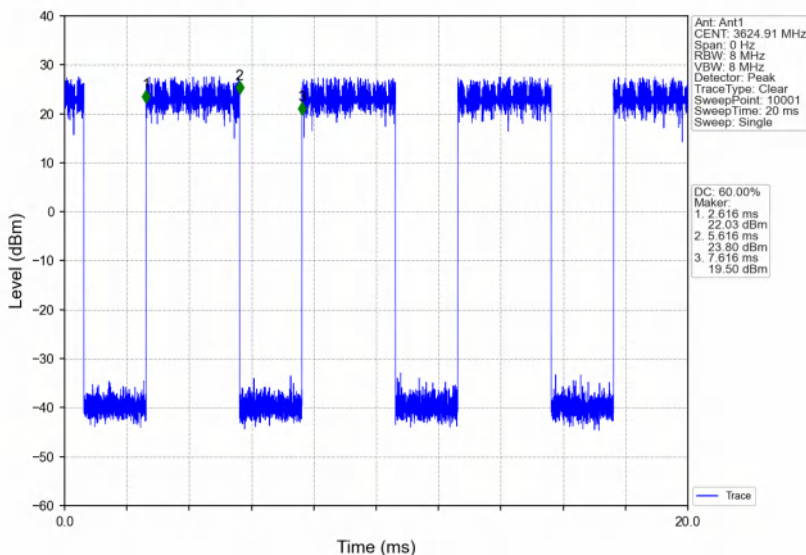
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Band48_5MHz_64QAM_MCH_3625MHz_RB_12_0_NTNV



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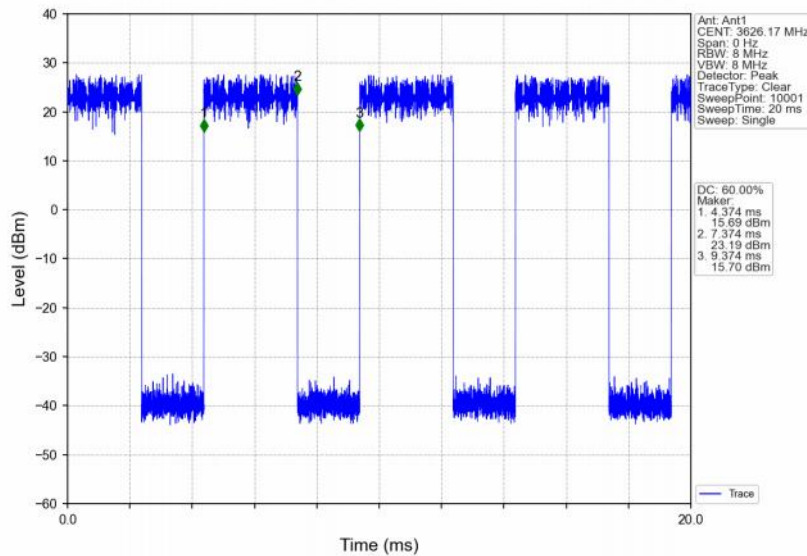


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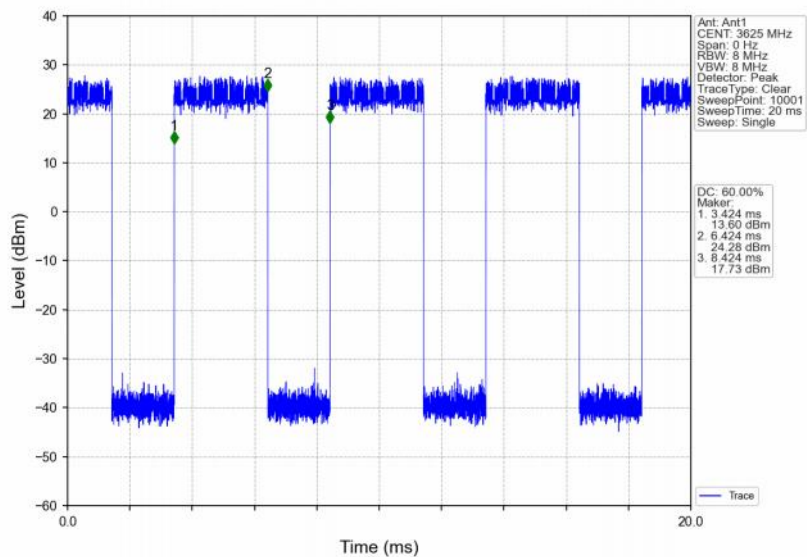
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Band48_5MHz_64QAM_MCH_3625MHz_RB_12_13_NTNV



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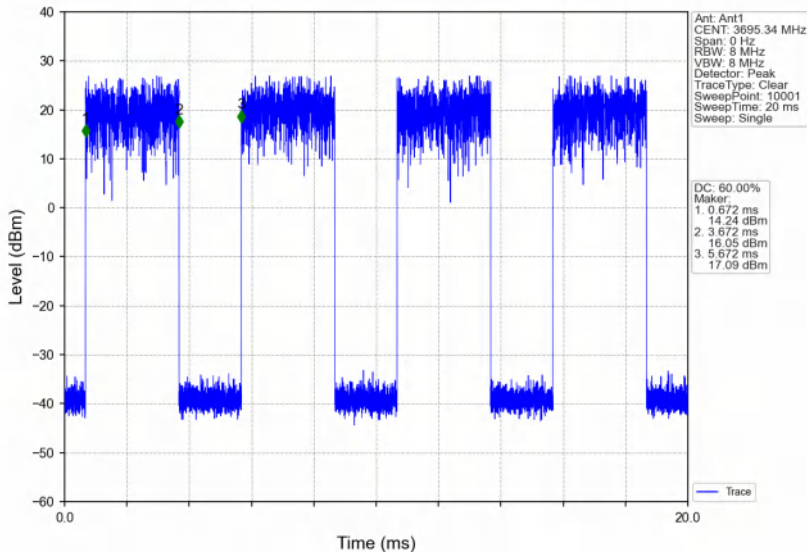


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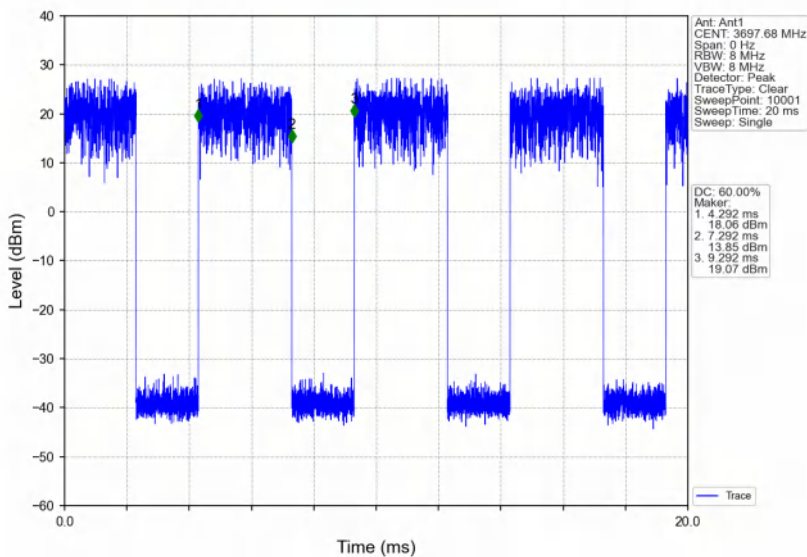
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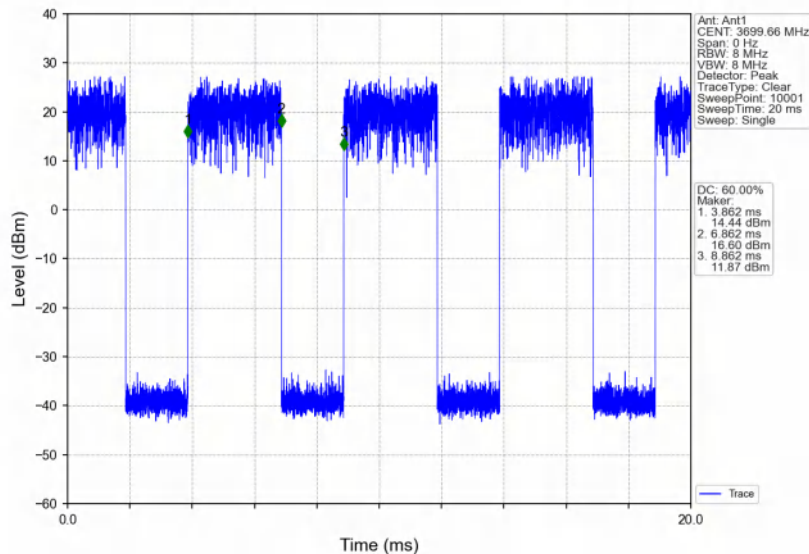


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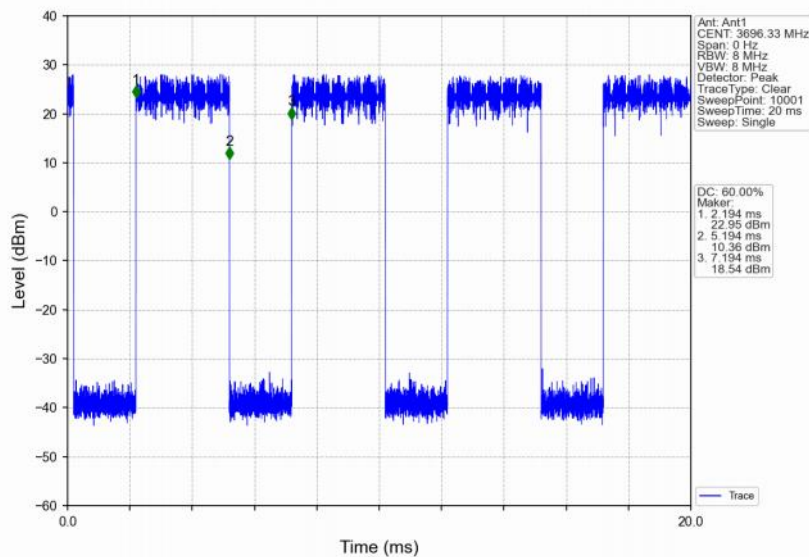
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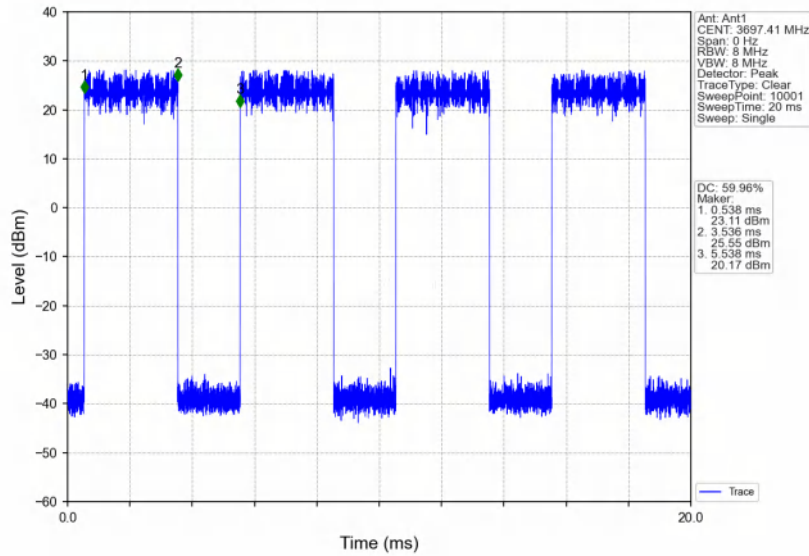


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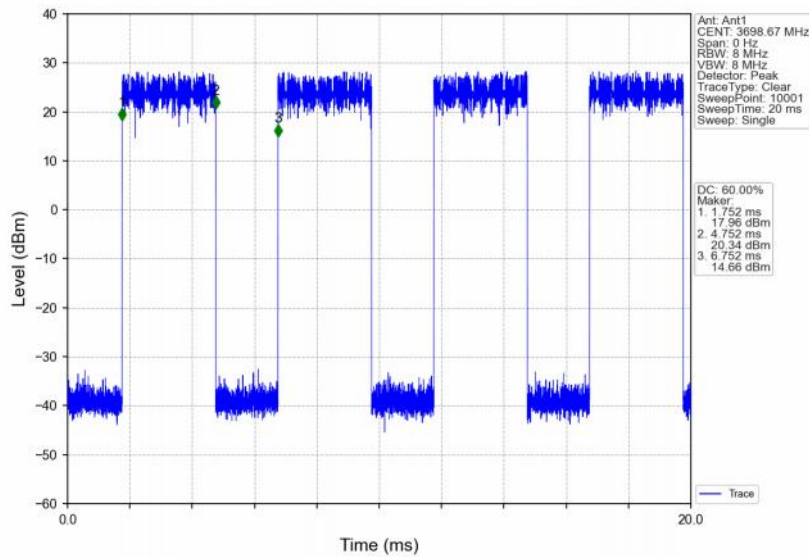
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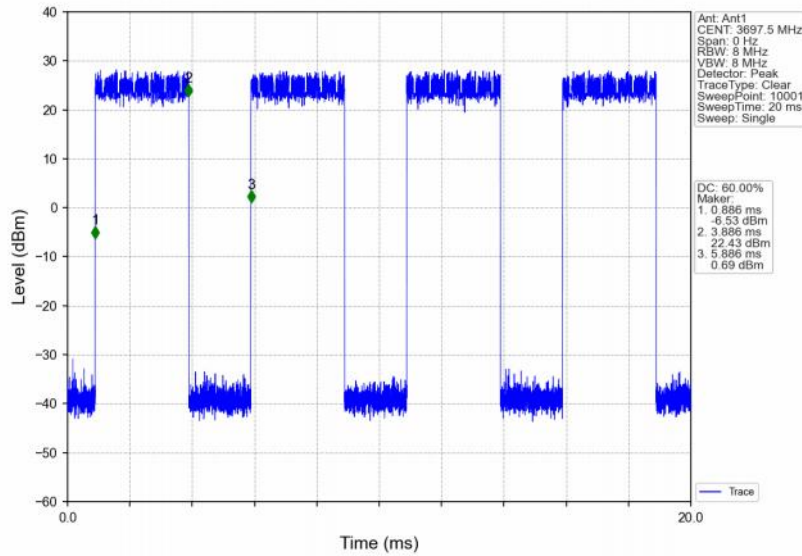


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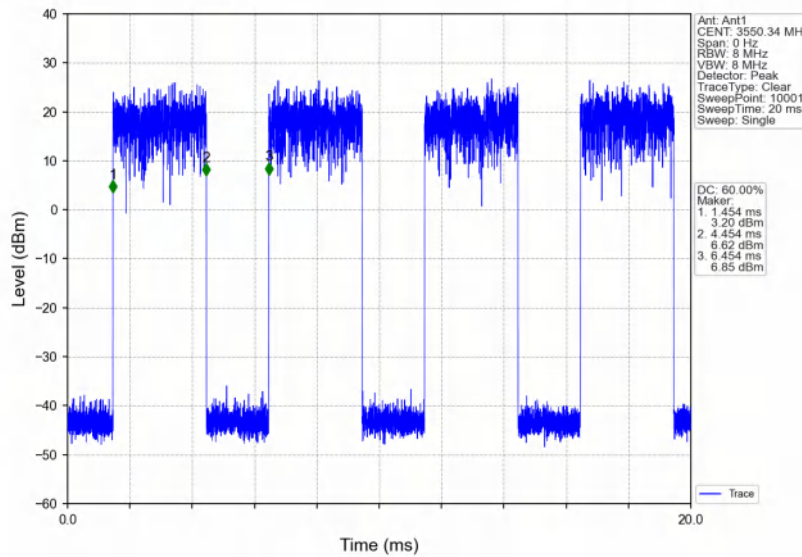
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_LCH_3552.5MHz_RB_1_0_NTNV

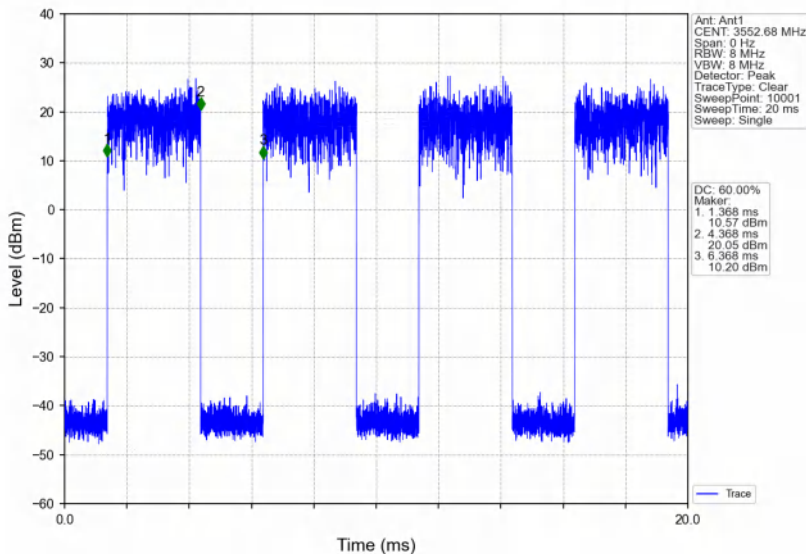


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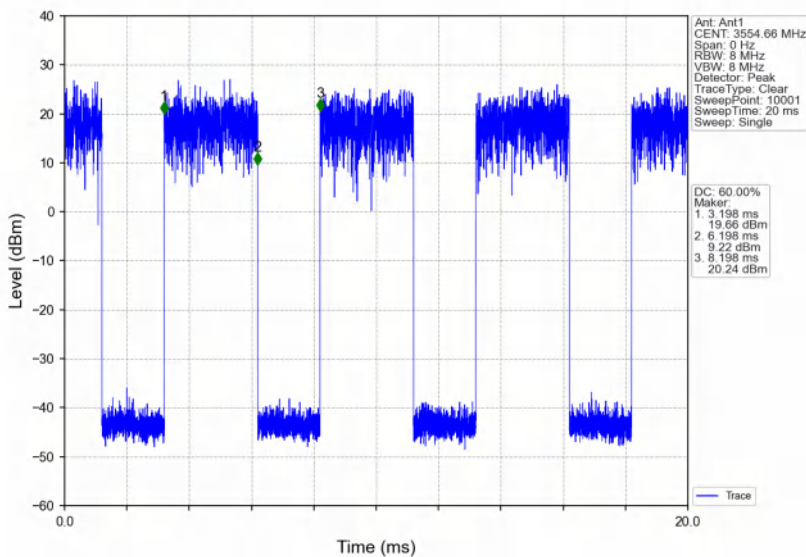
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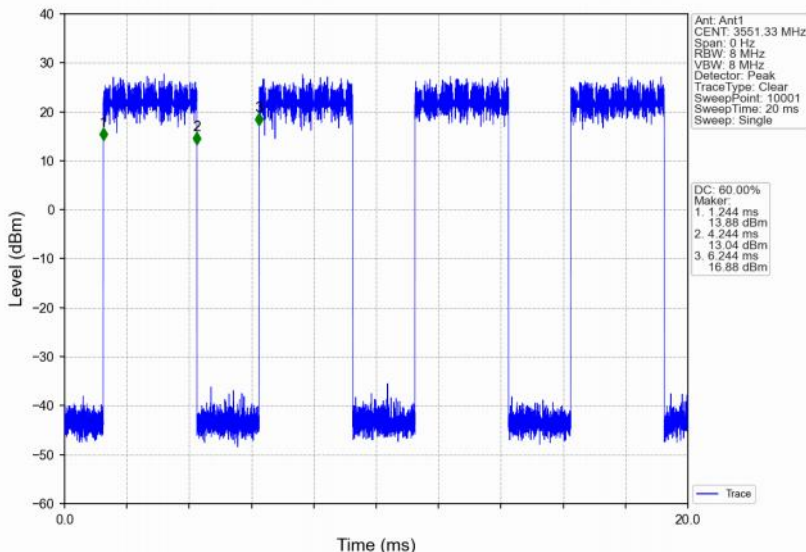


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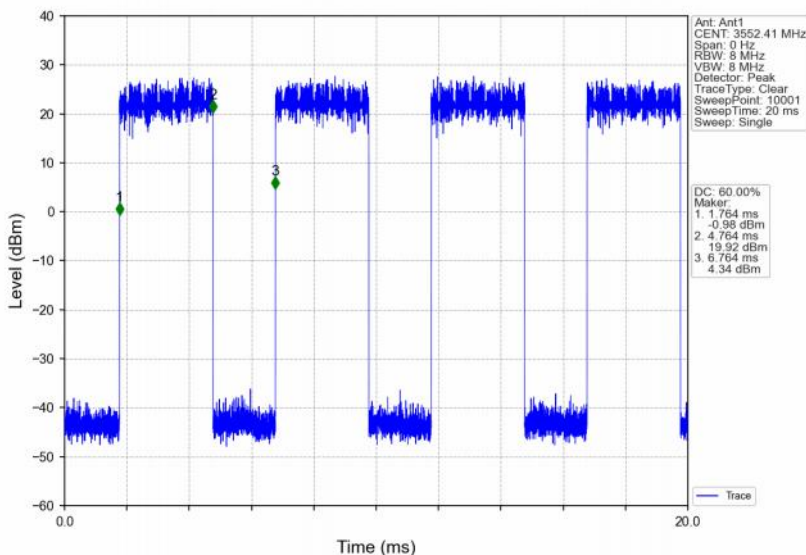
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_12_0_NTNV



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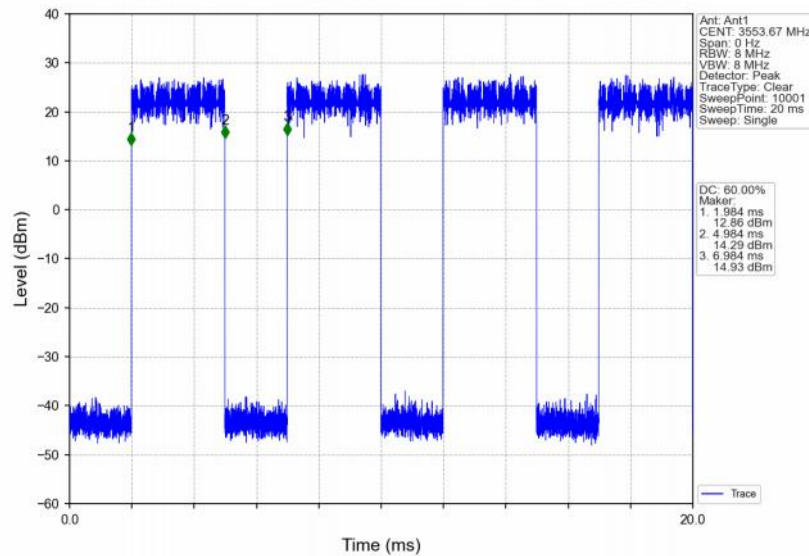


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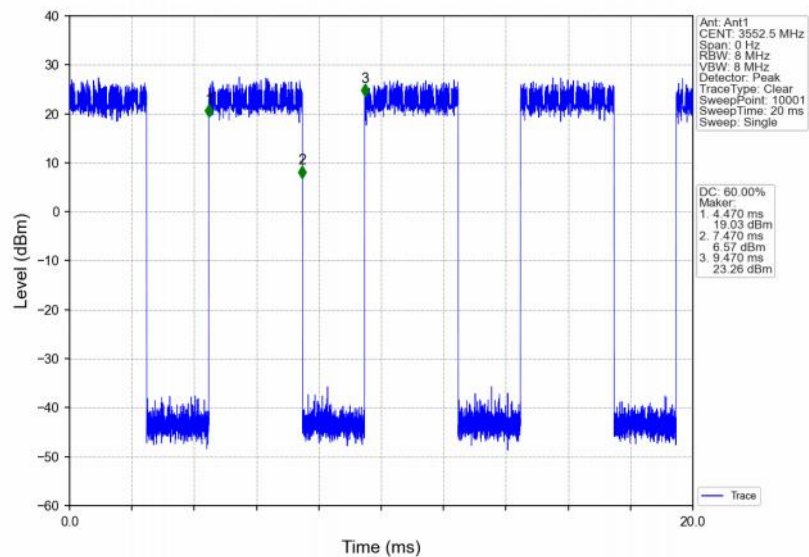
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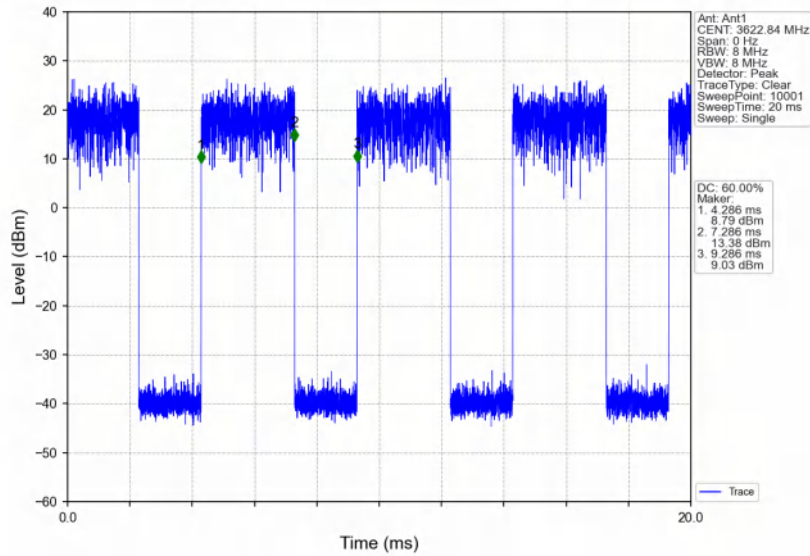


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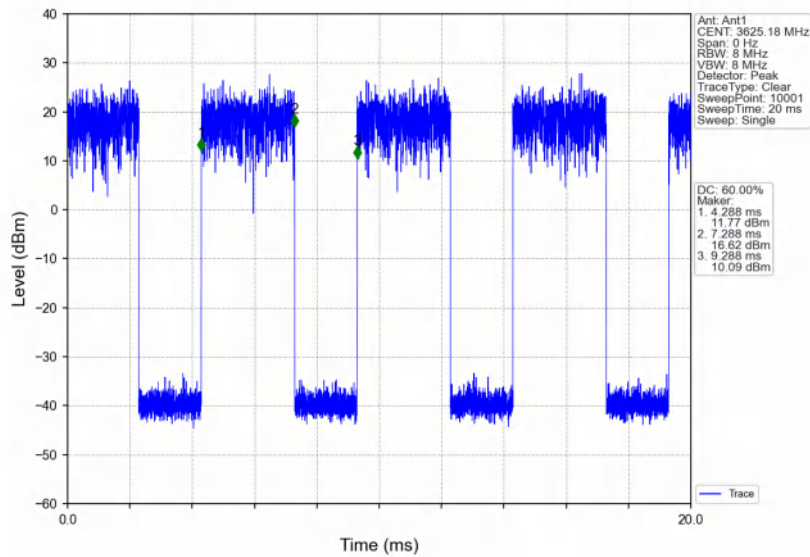
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Band48_5MHz_256QAM_MCH_3625MHz_RB_1_0_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_1_13_NTNV

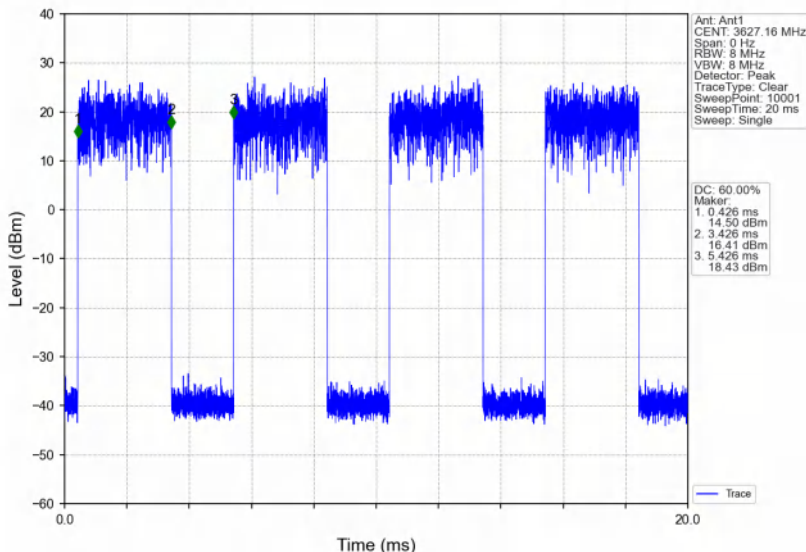


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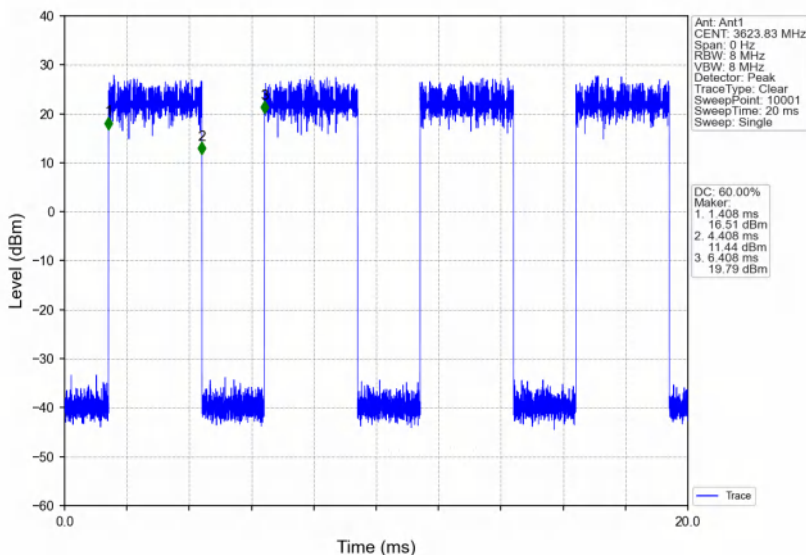
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Band48_5MHz_256QAM_MCH_3625MHz_RB_1_24_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_12_0_NTNV

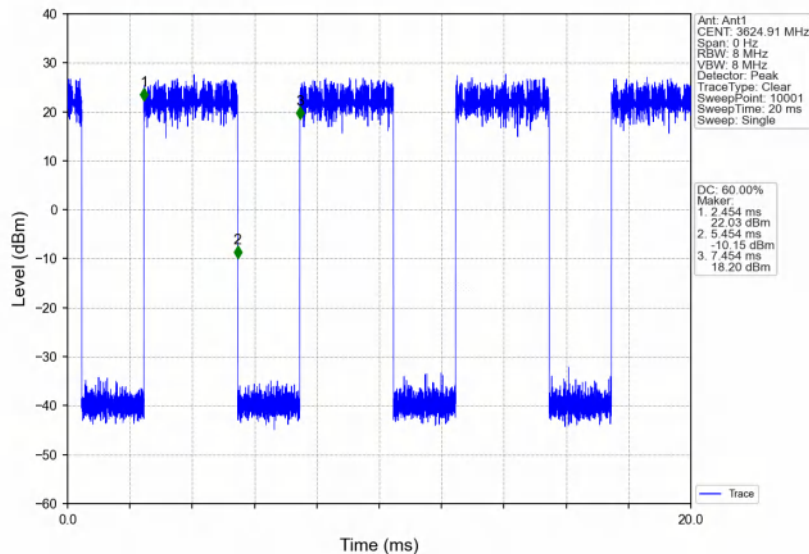


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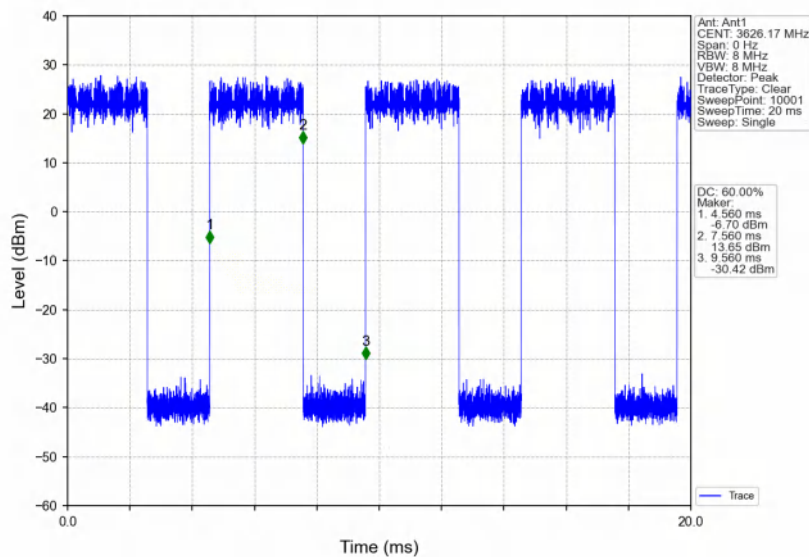
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Band48_5MHz_256QAM_MCH_3625MHz_RB_12_6_NTNV



Band48_5MHz_256QAM_MCH_3625MHz_RB_12_13_NTNV

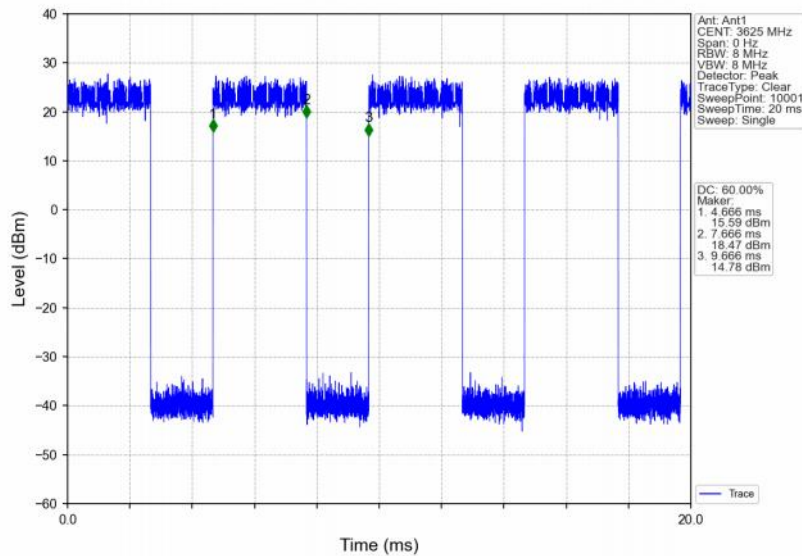


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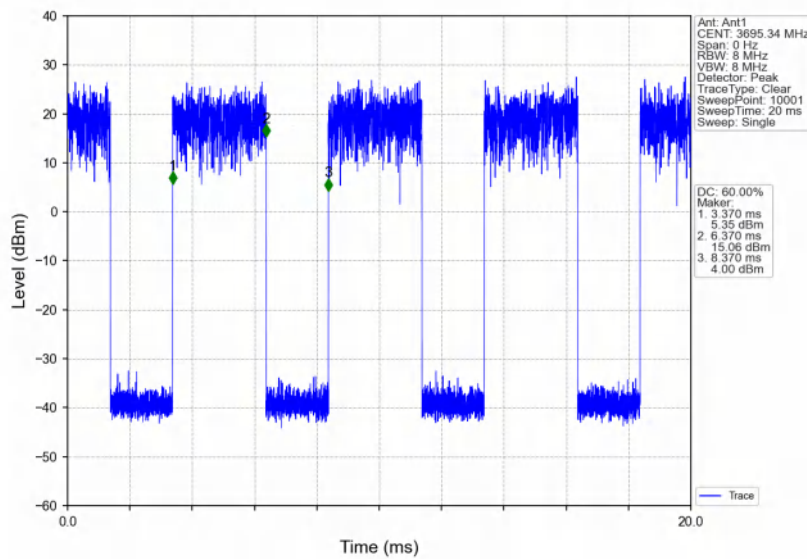
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Band48_5MHz_256QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_0_NTNV

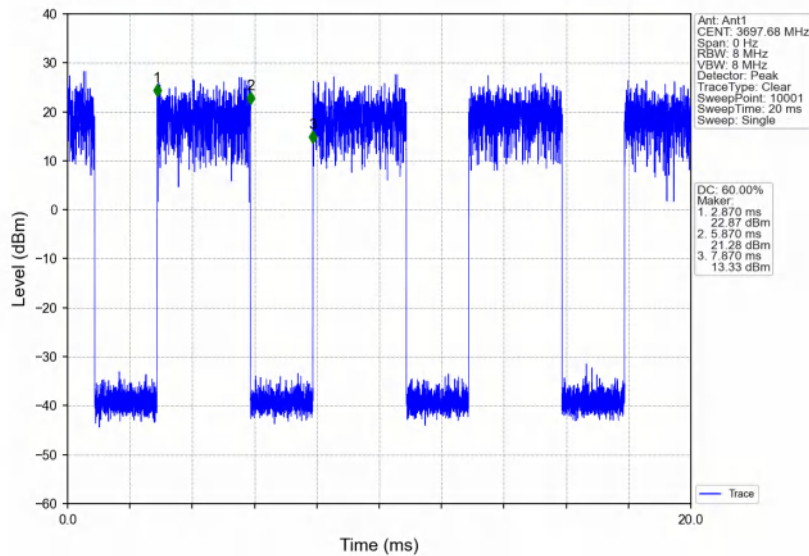


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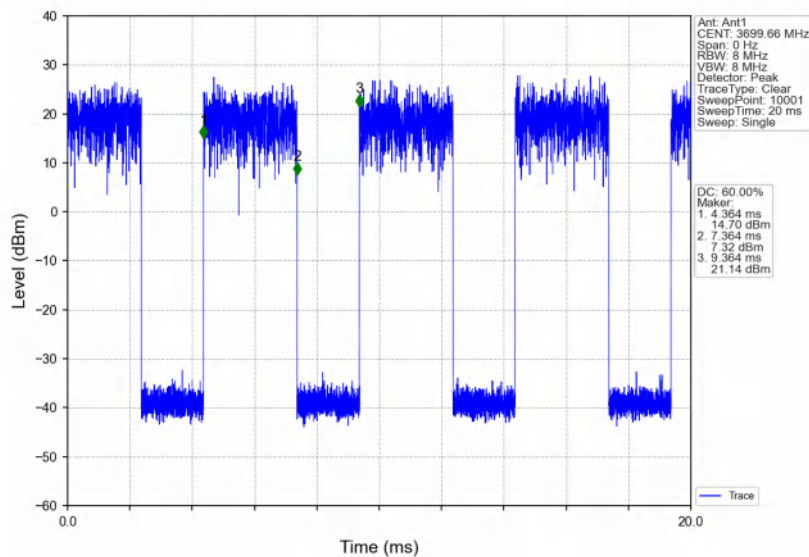
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_13_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_1_24_NTNV

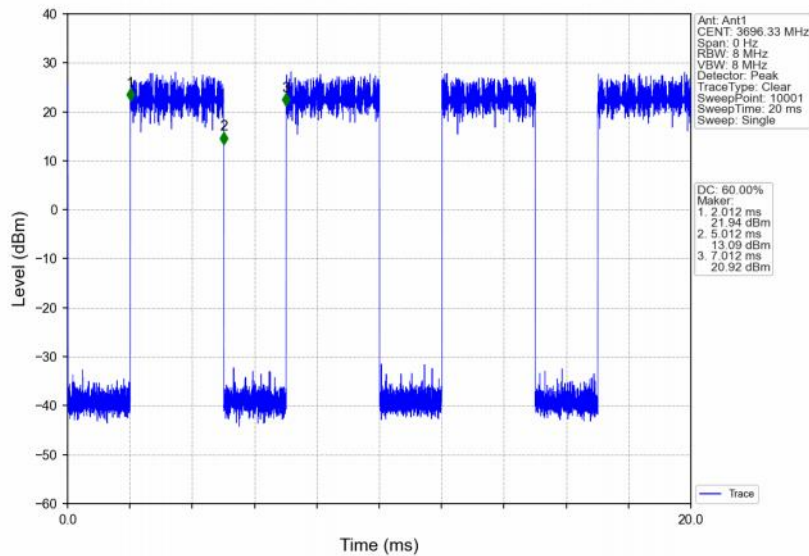


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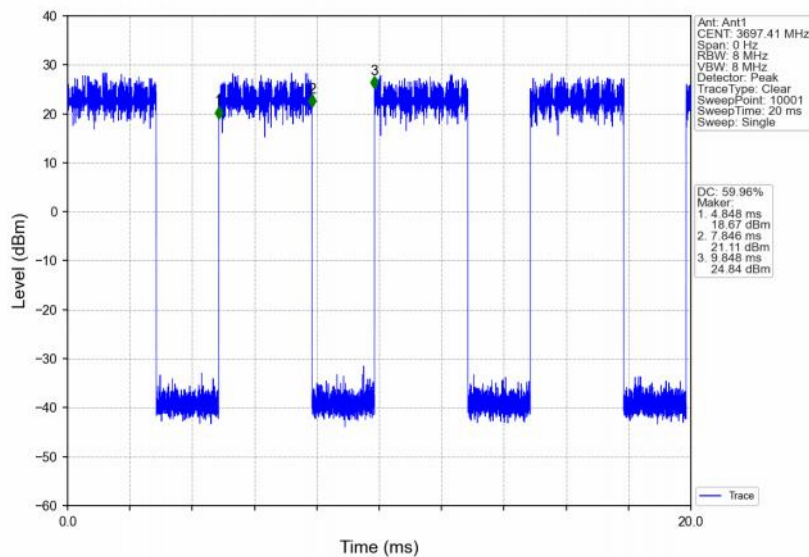
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_6_NTNV

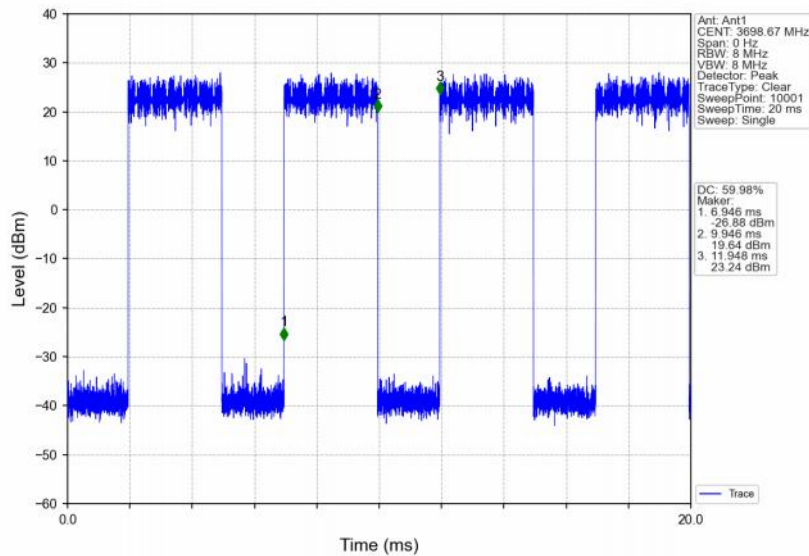


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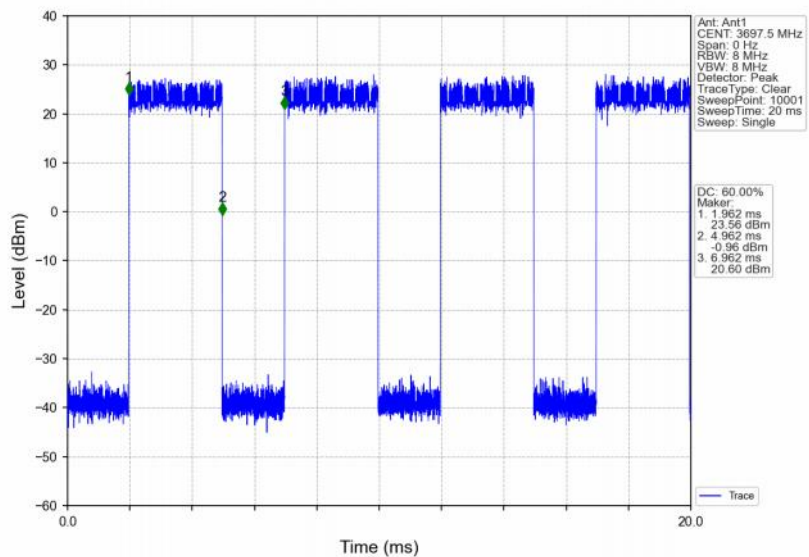
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_12_13_NTNV



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	3.000	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	0.04	
				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				3.002	5.000	60.04	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	0.02		
			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	0.00	
	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	0.00	
			0	3.000	5.000	60.00	2.22	0.00	
		1	25	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
			50	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
	3695	1	0	3.000	5.000	60.00	2.22	0.04	
			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	
			0	3.000	5.000	60.00	2.22	0.00	
			25	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	
			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	
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	0.04		
		0	3.000	5.000	60.00	2.22	0.00		
		25	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			
	0	3.000	5.000	60.00	2.22	0.00			
	25	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		
		0	3.000	5.000	60.00	2.22	0.00		
		25	3.000	5.000	60.00	2.22	0.00		

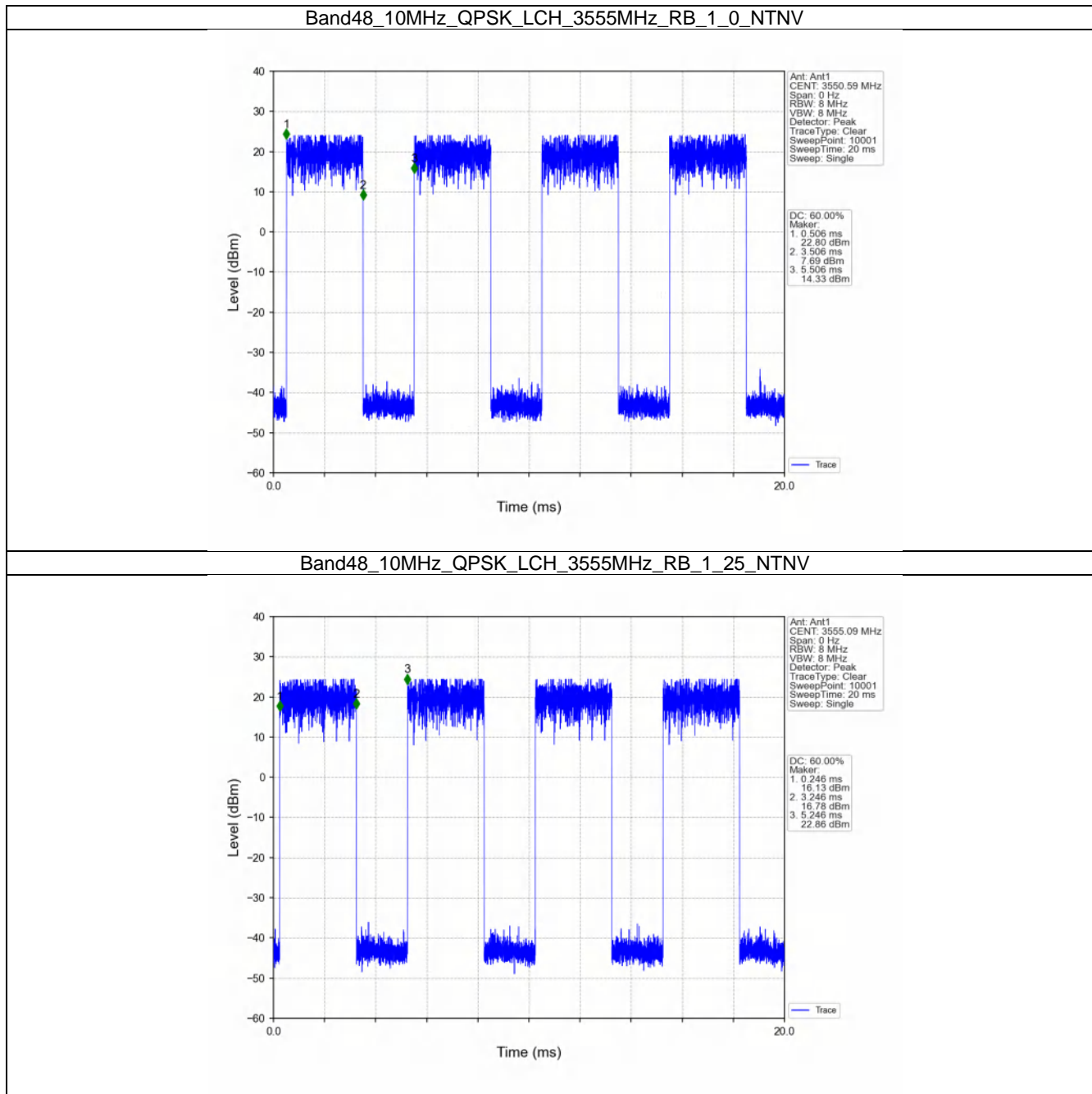


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1.2.2 Test Graph

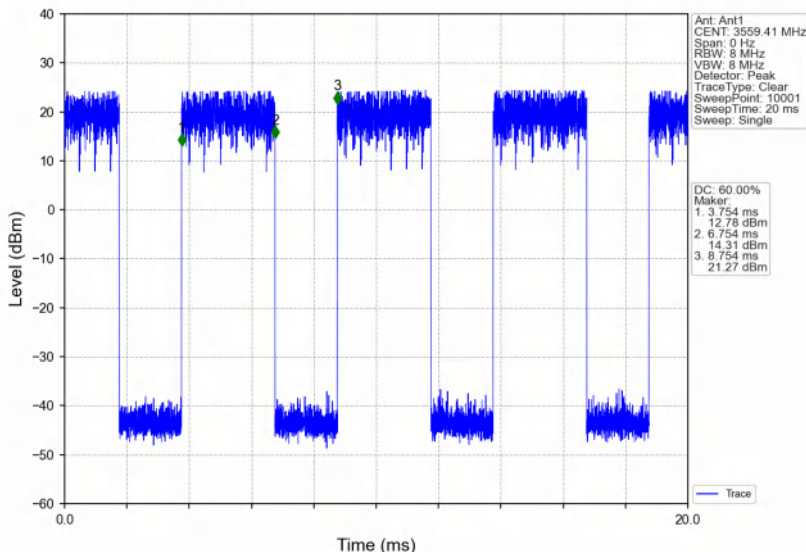


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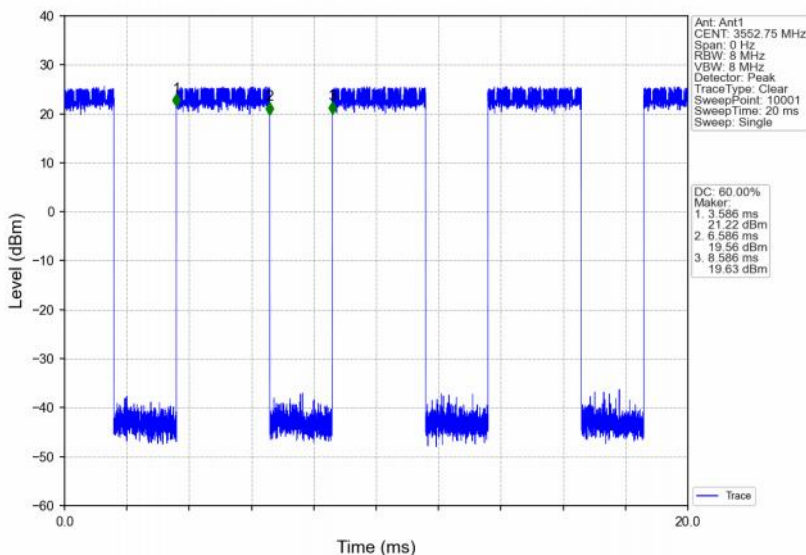
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Band48_10MHz_QPSK_LCH_3555MHz_RB_25_0_NTNV

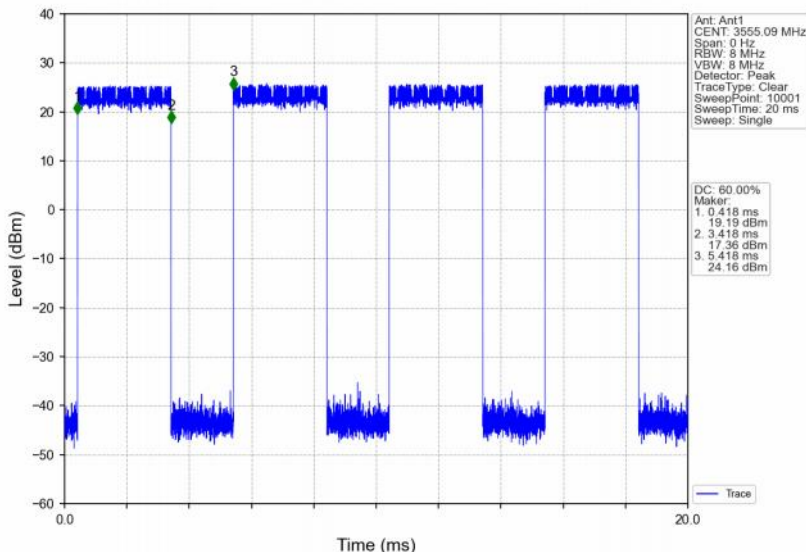


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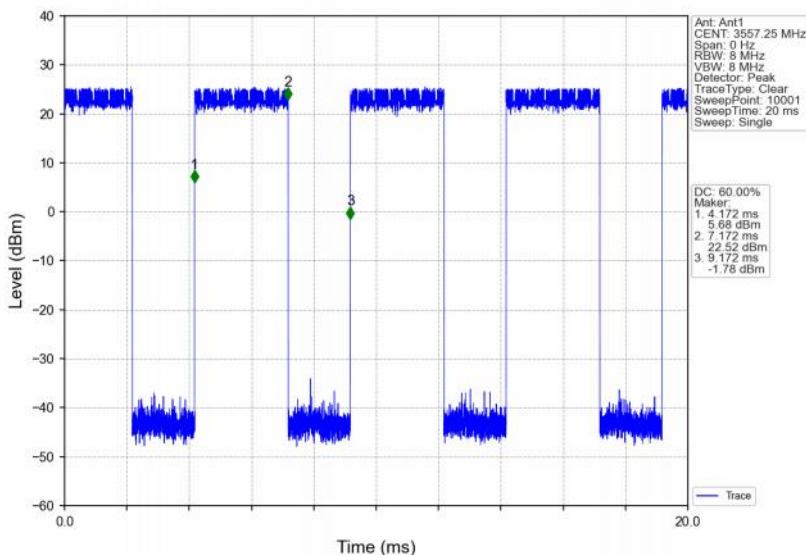
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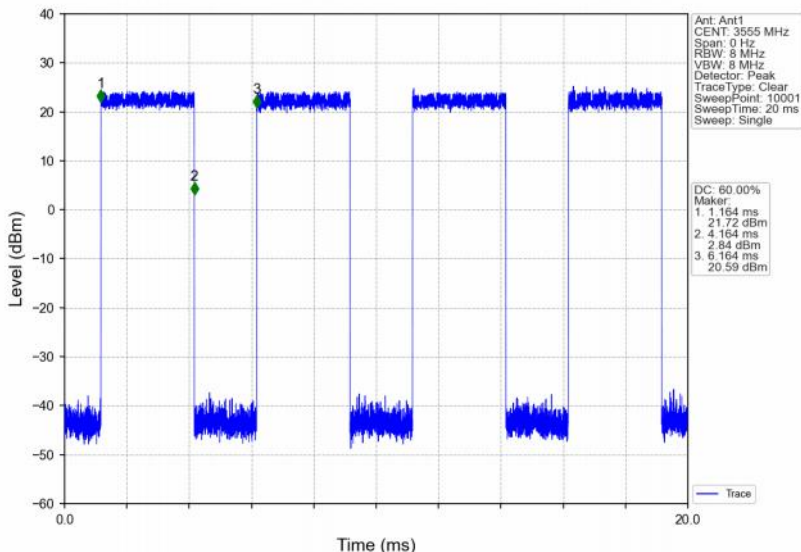


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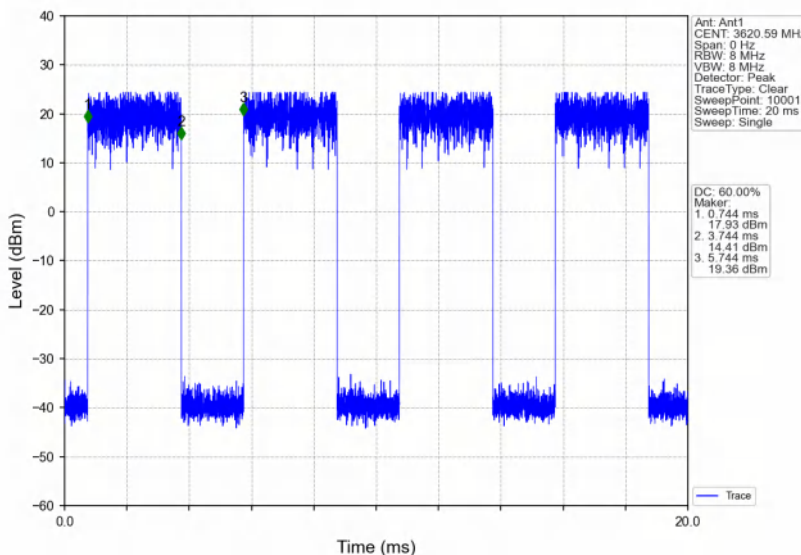
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Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV

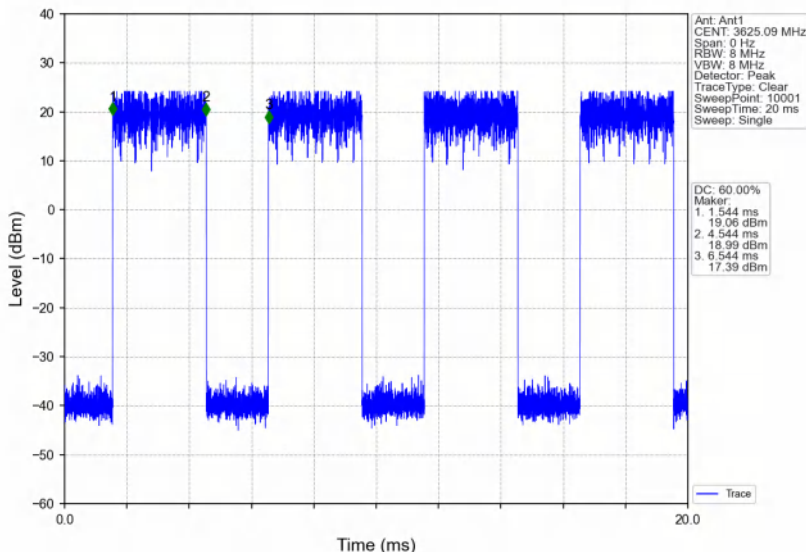


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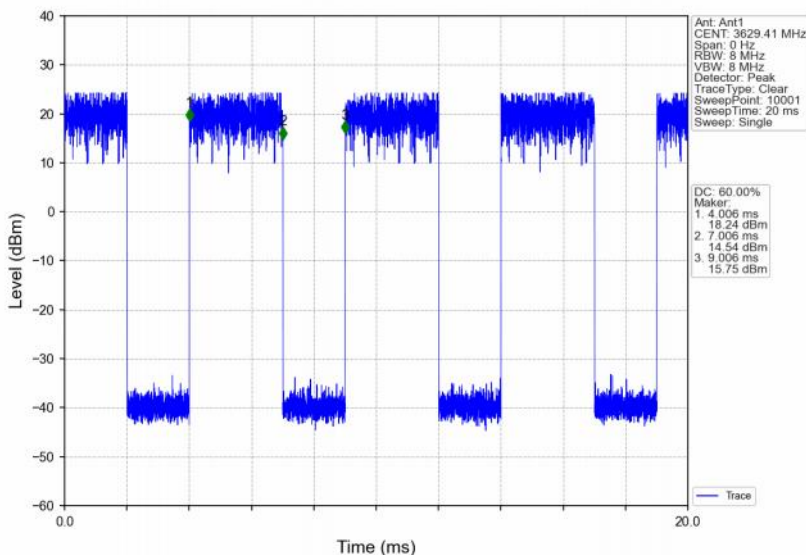
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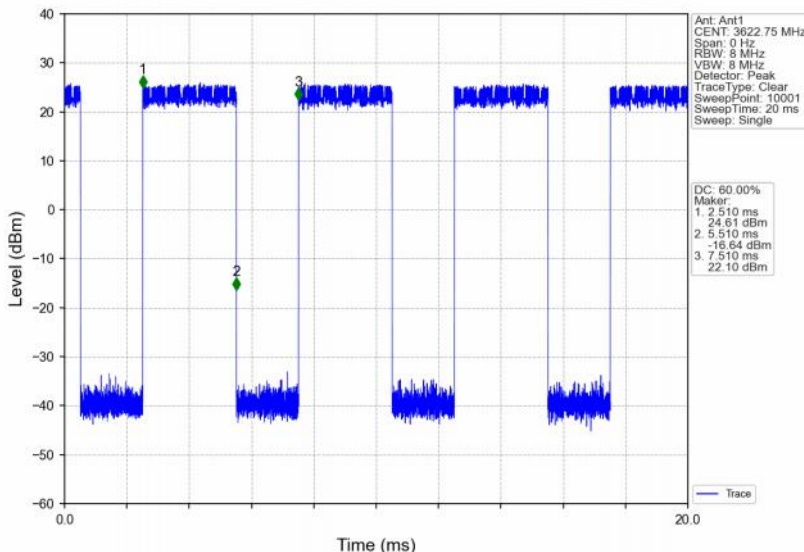


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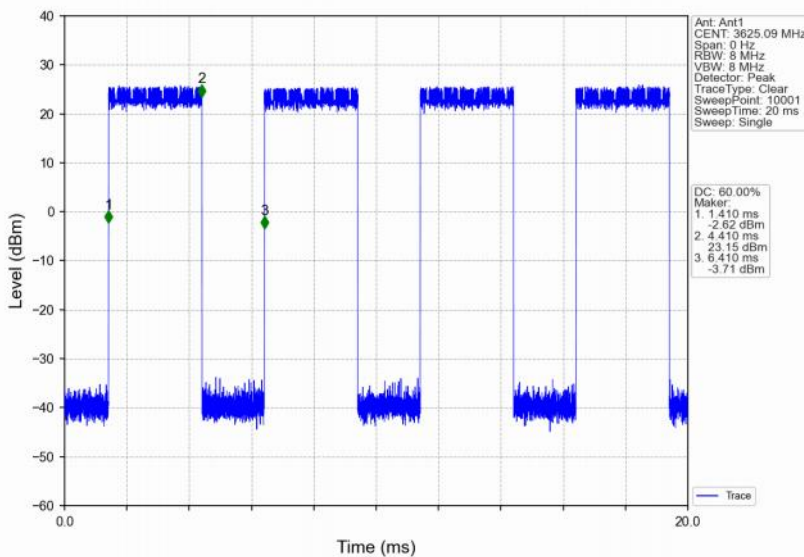
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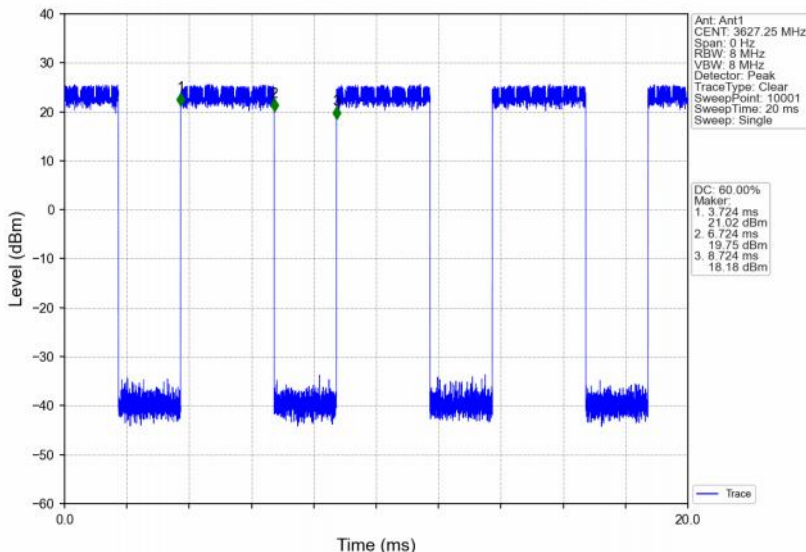


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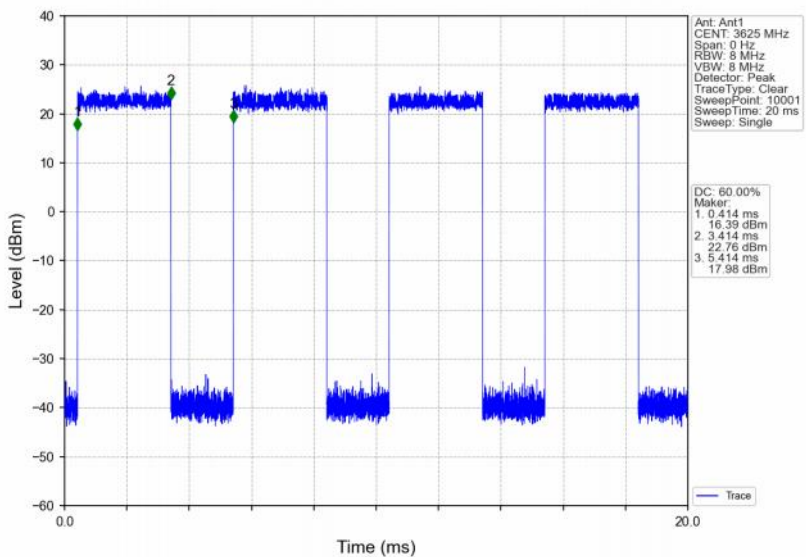
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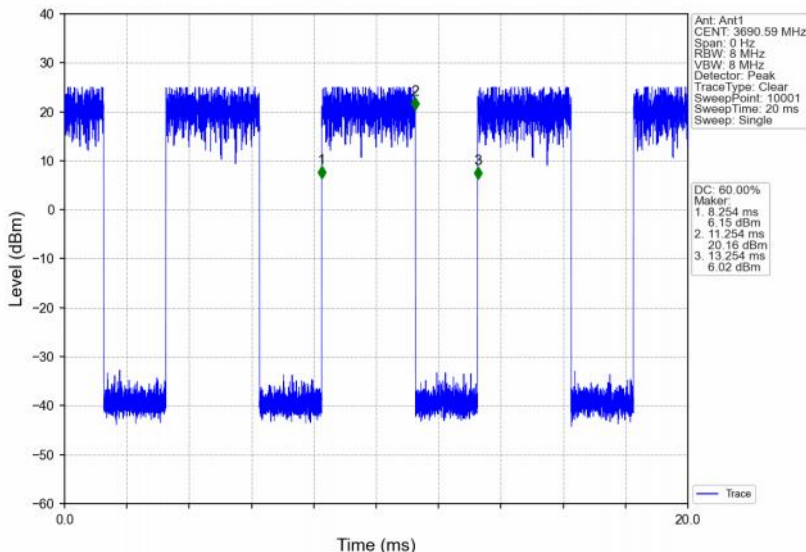


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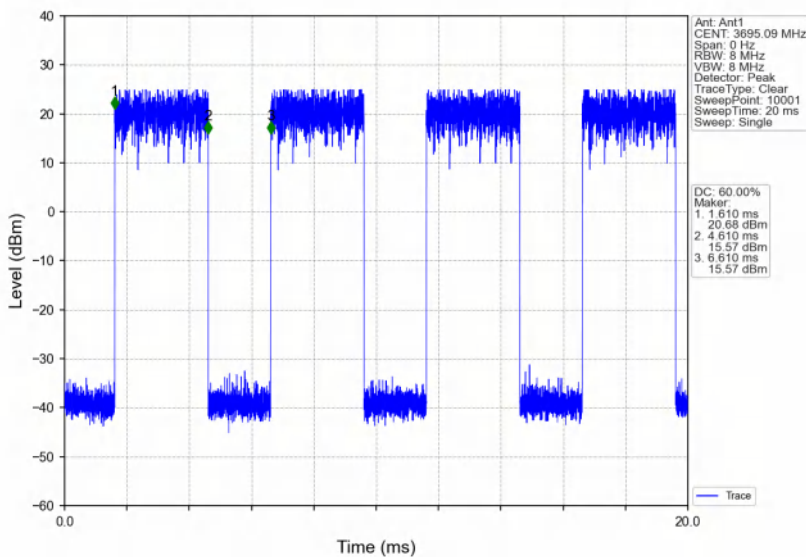
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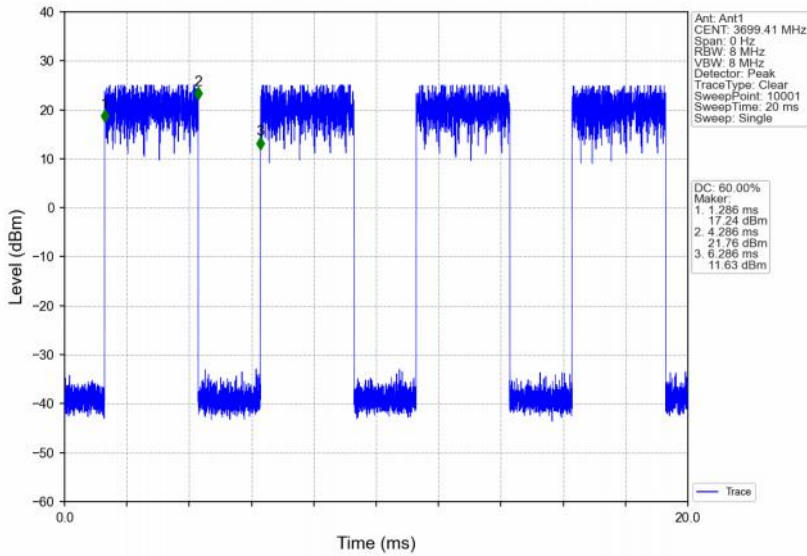


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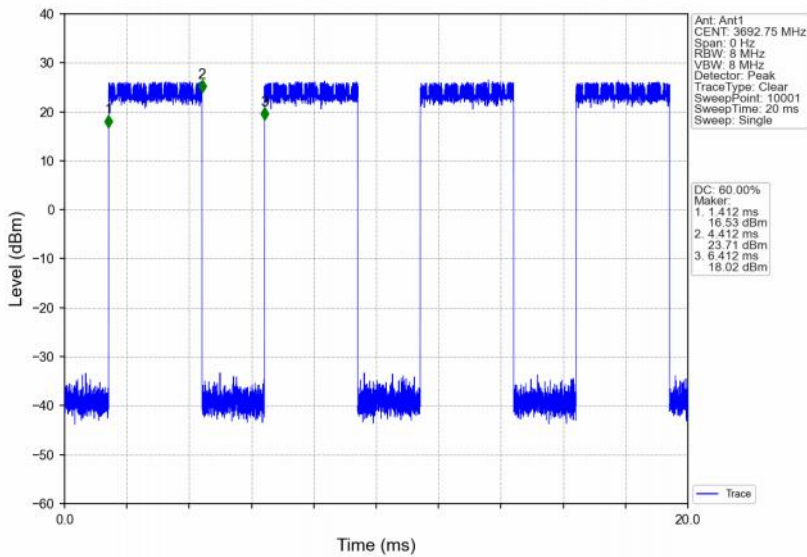
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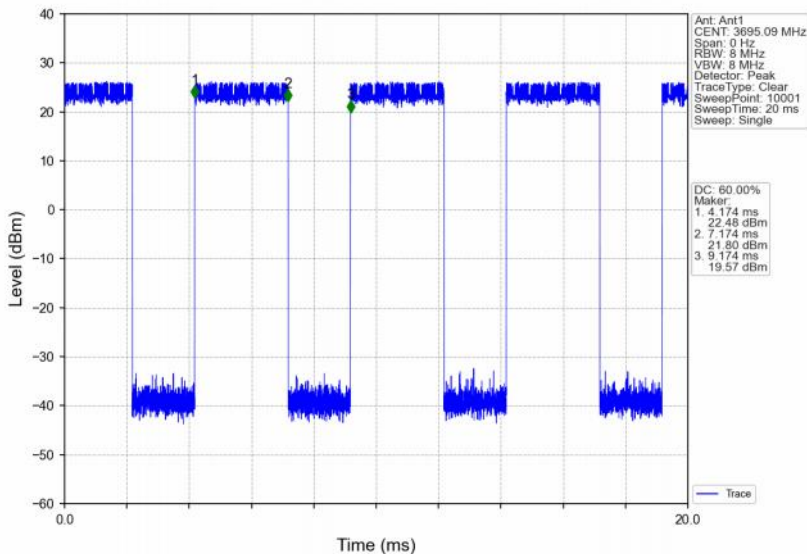


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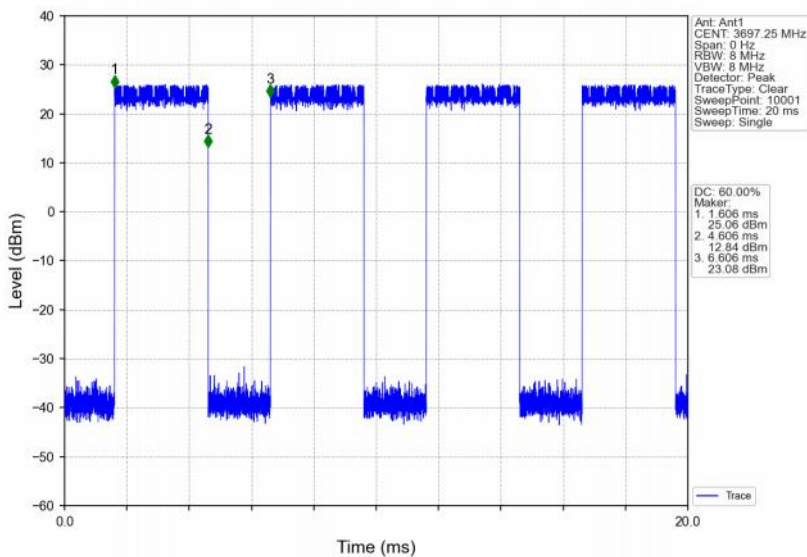
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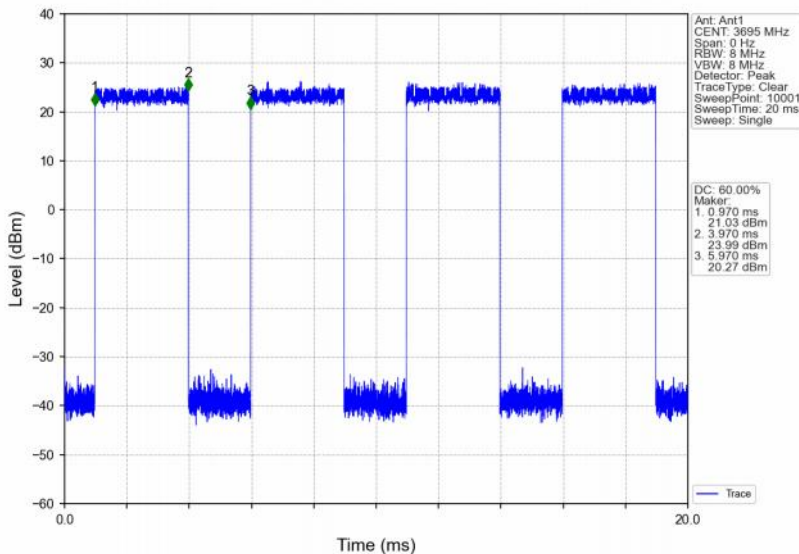


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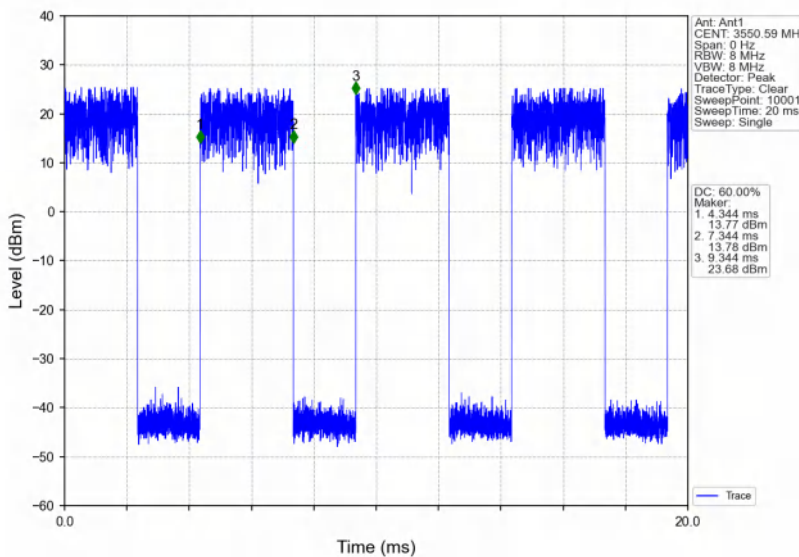
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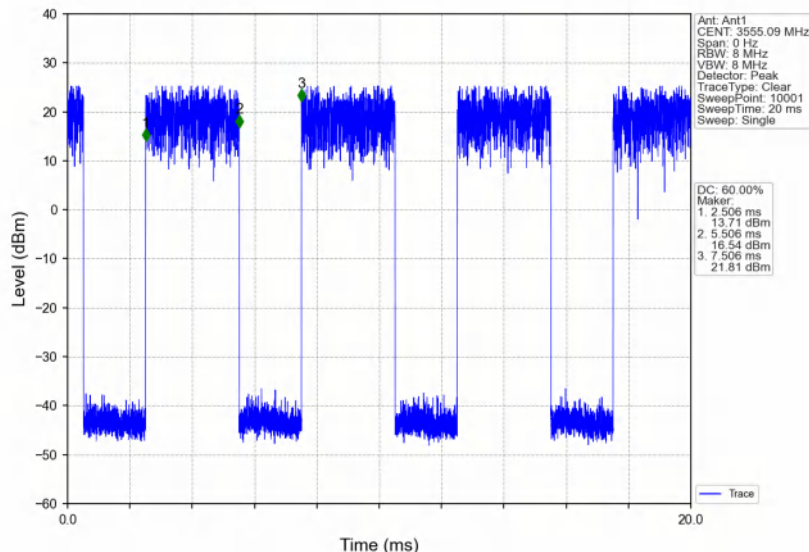


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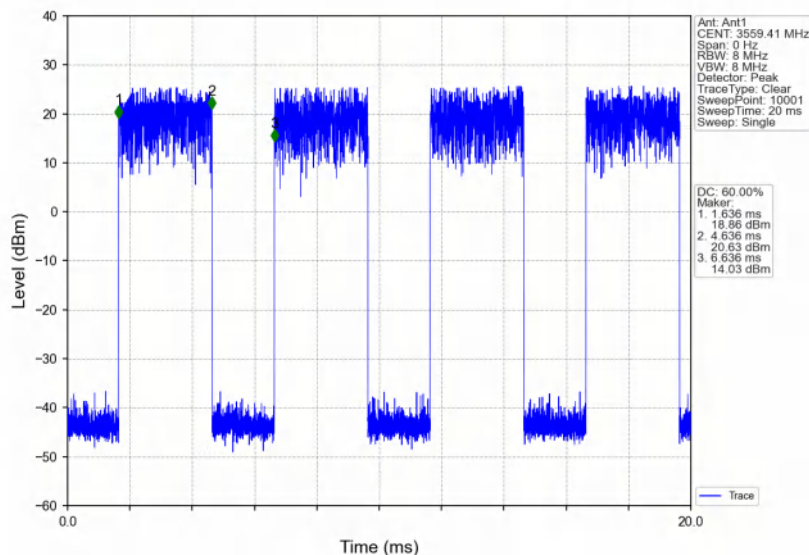
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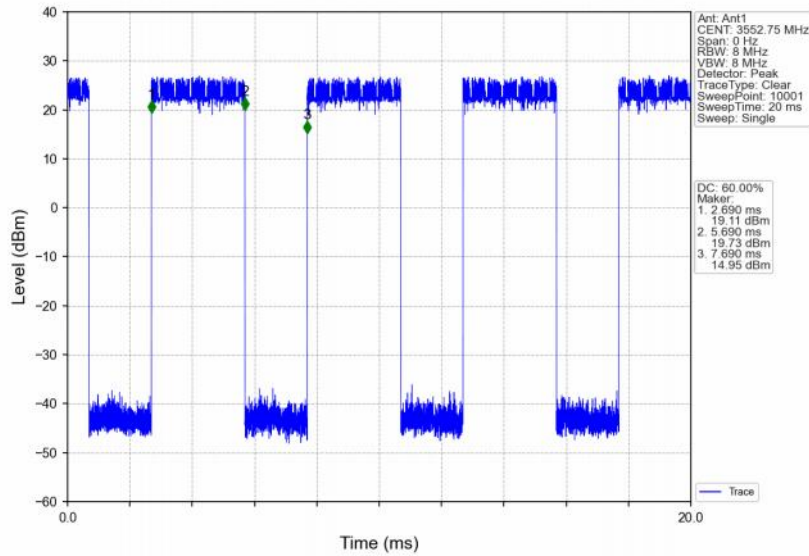


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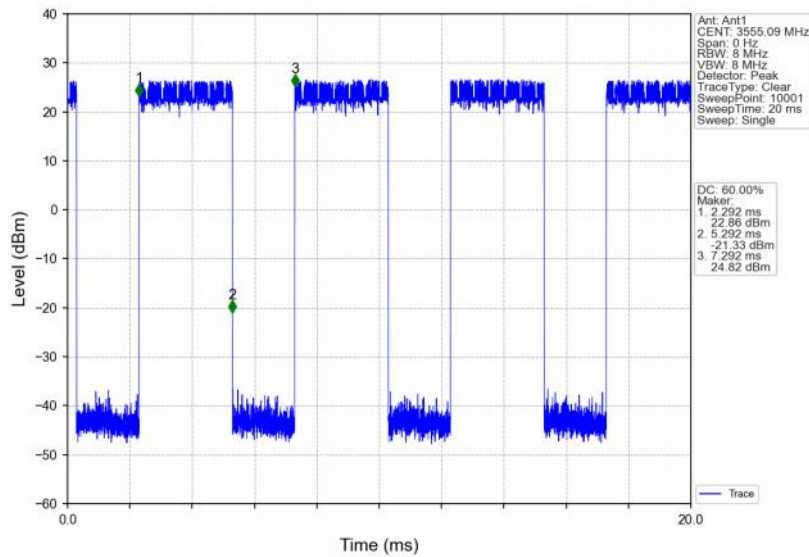
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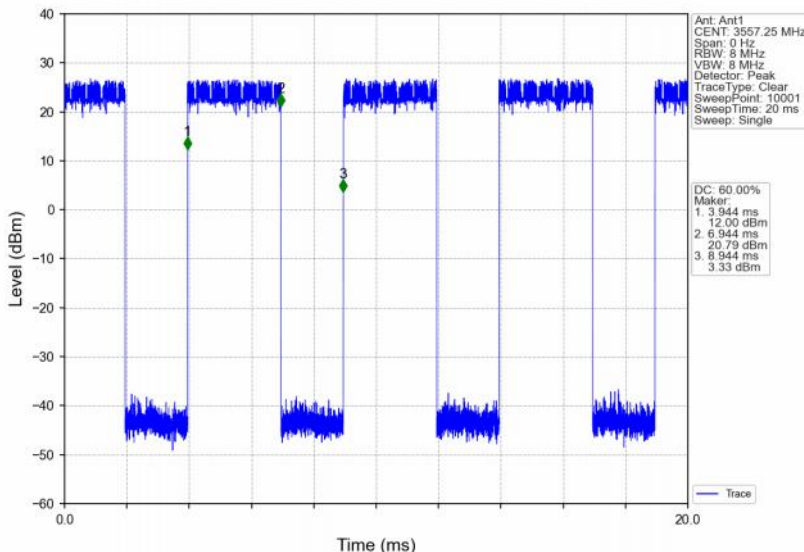


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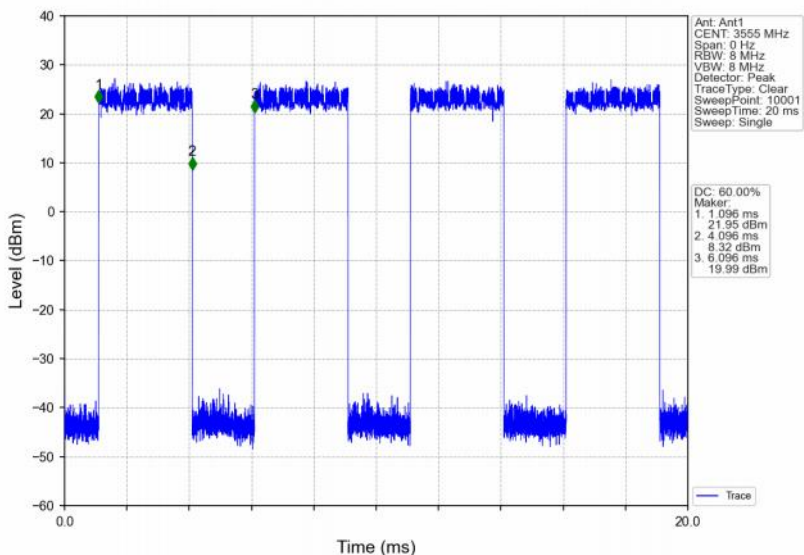
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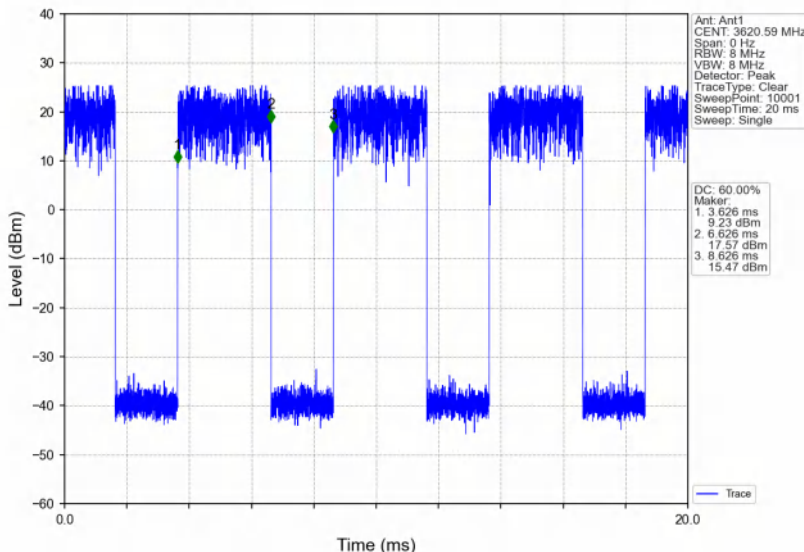


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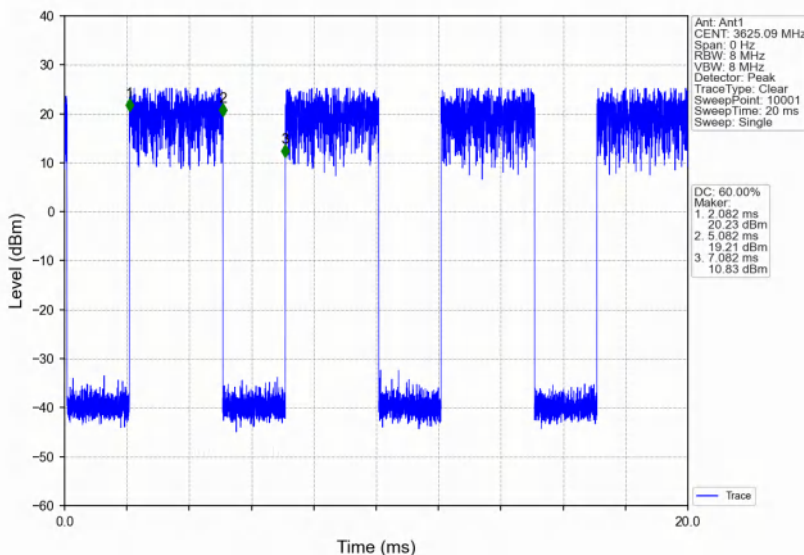
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Band48_10MHz_16QAM_MCH_3625MHz_RB_1_0_NTNV



Band48_10MHz_16QAM_MCH_3625MHz_RB_1_25_NTNV

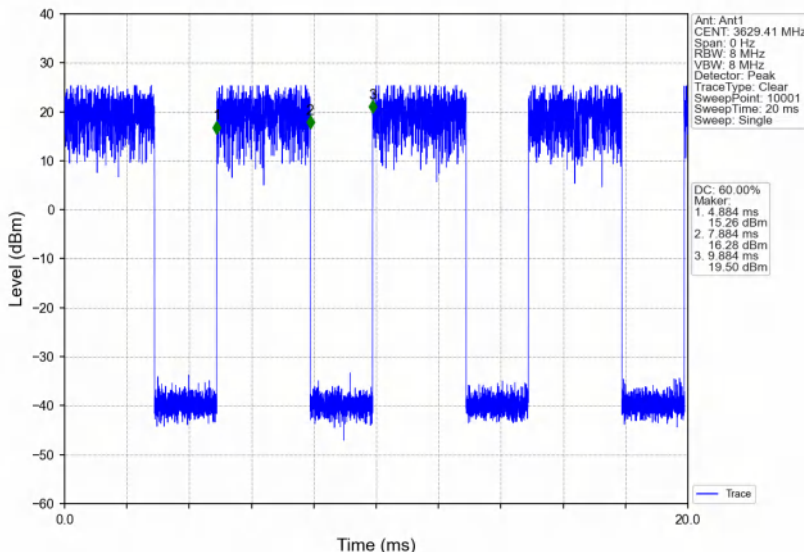


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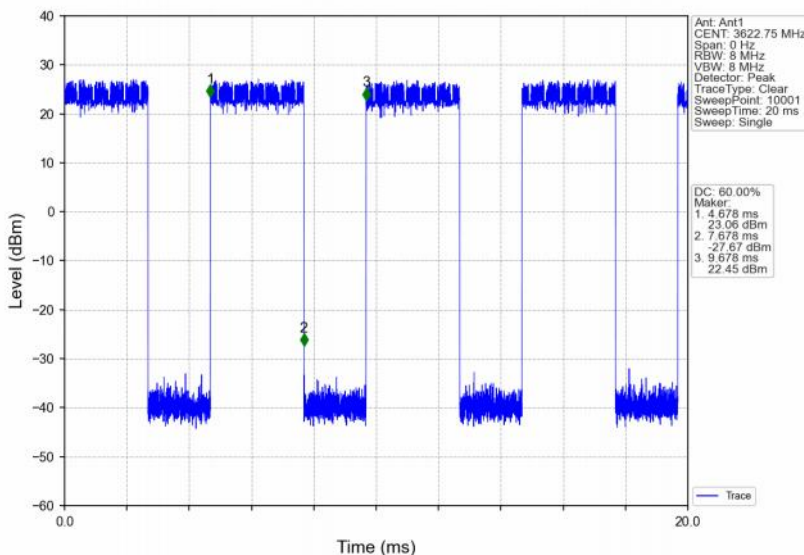
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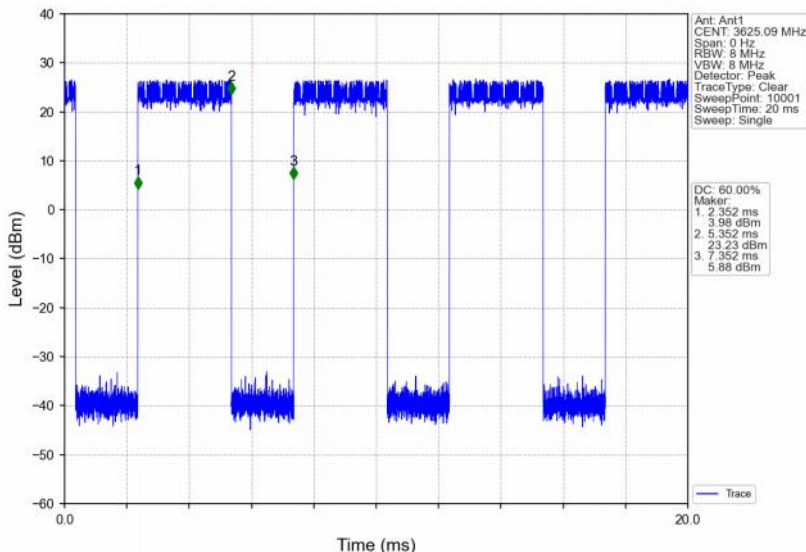


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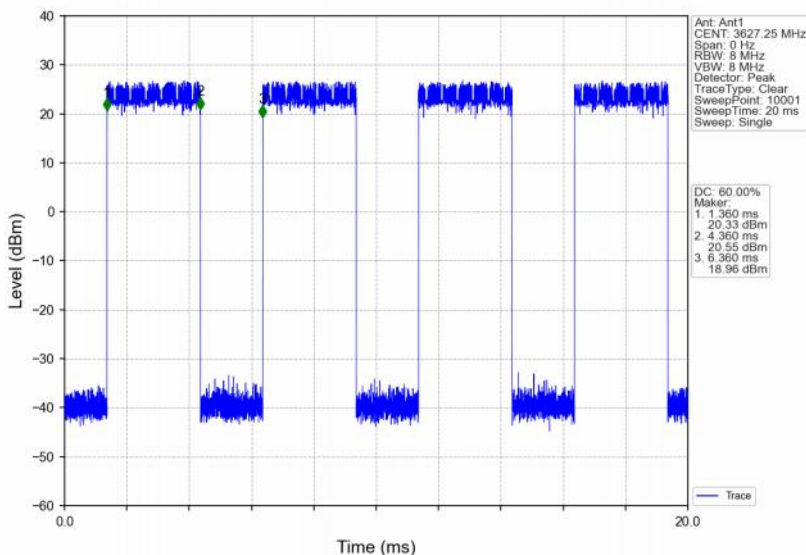
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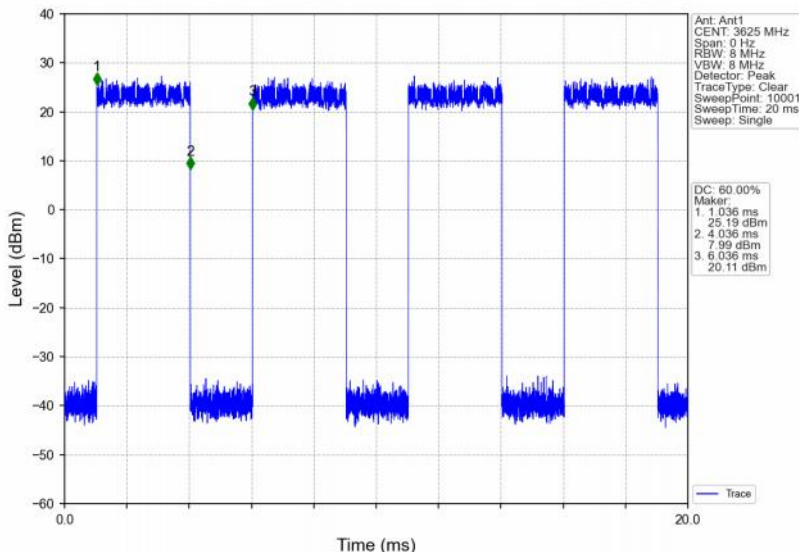


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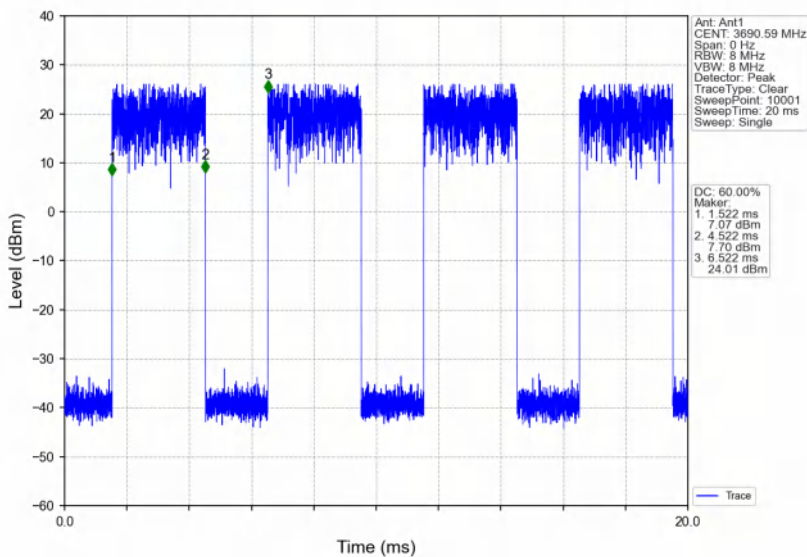
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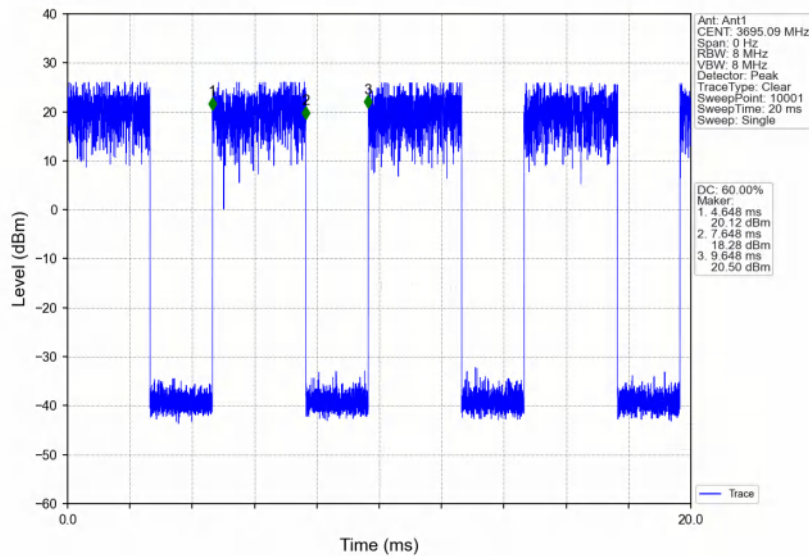


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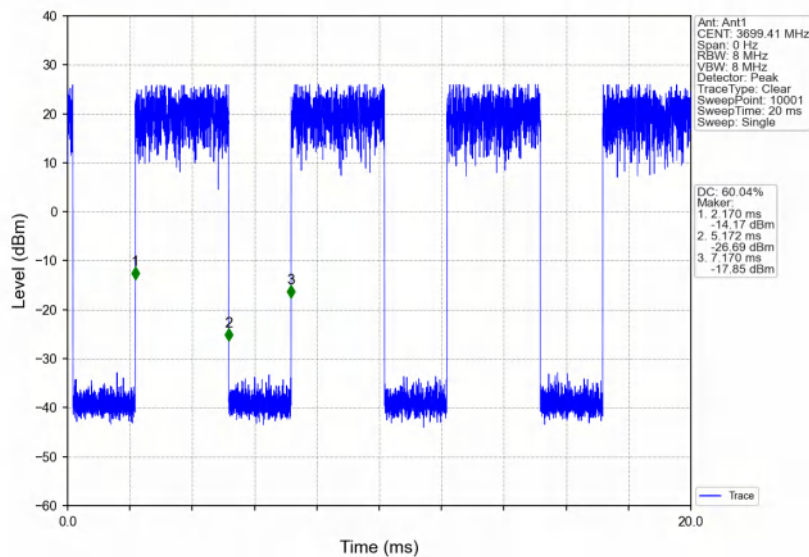
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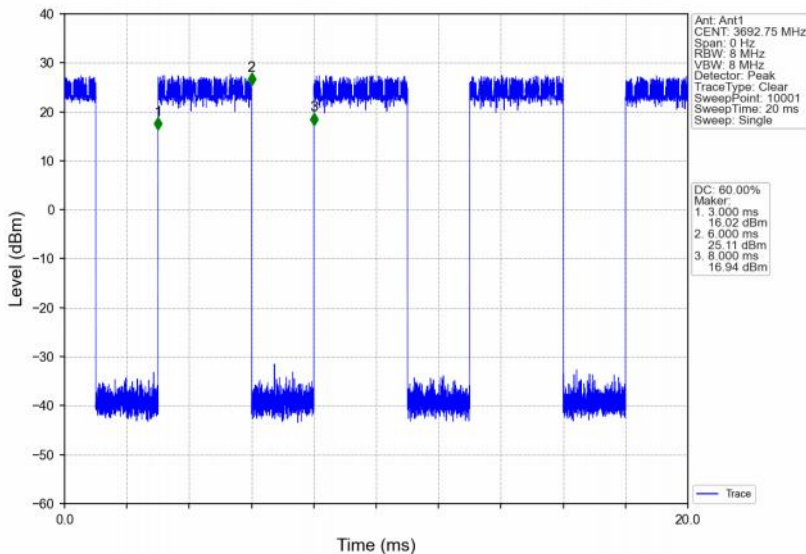


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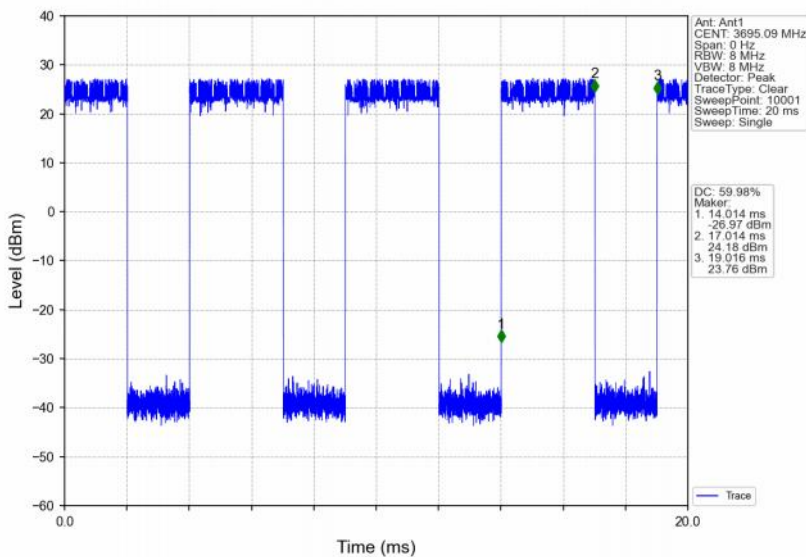
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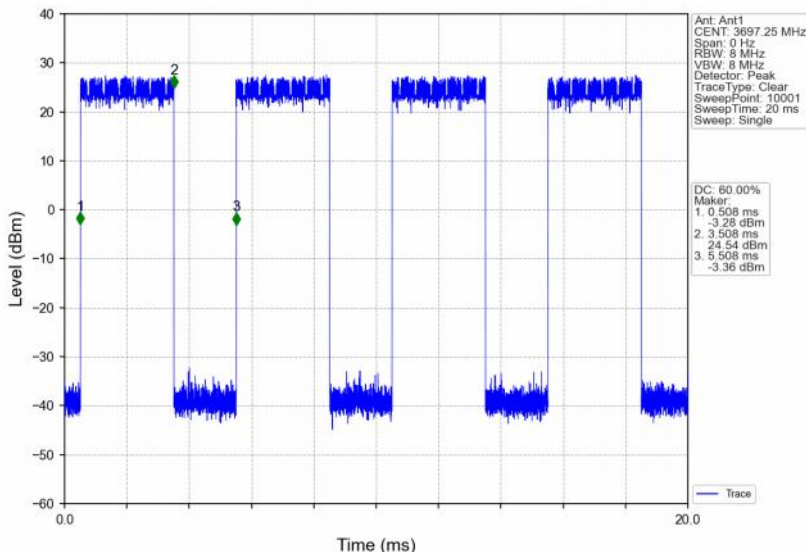


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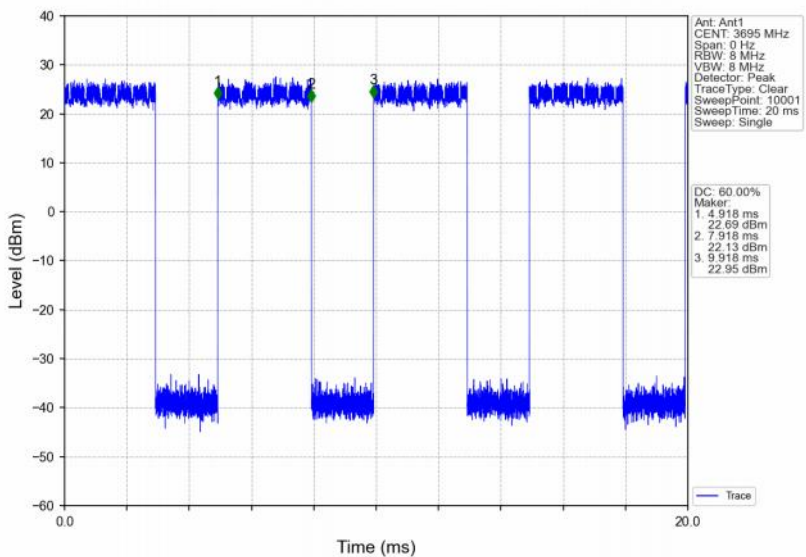
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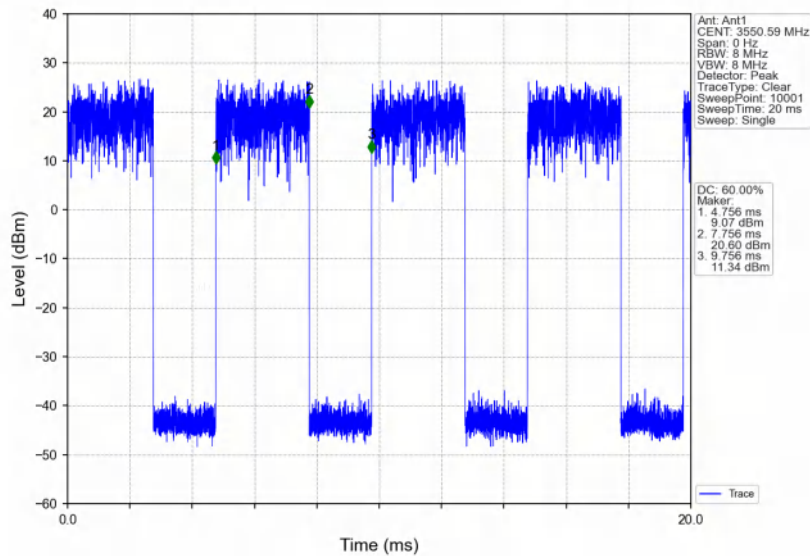


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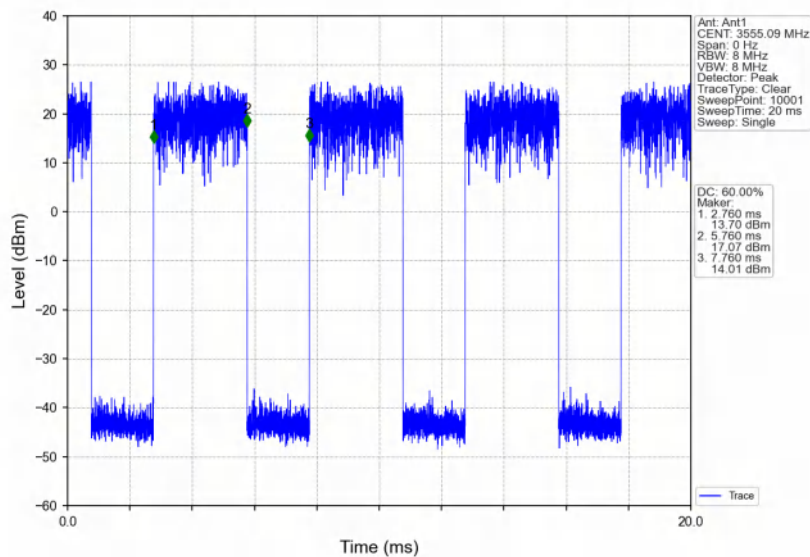
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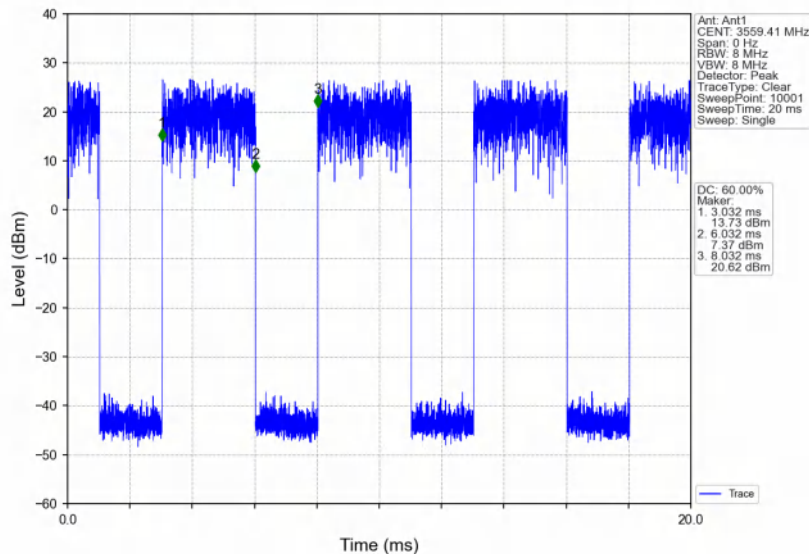


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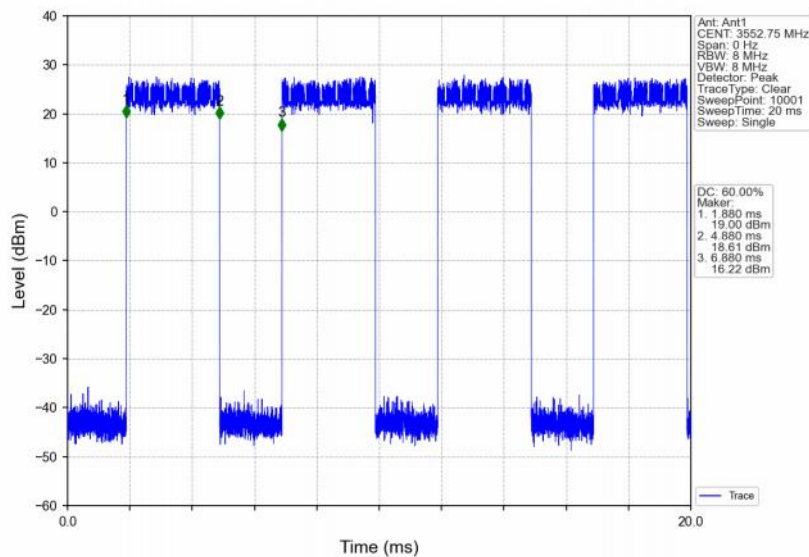
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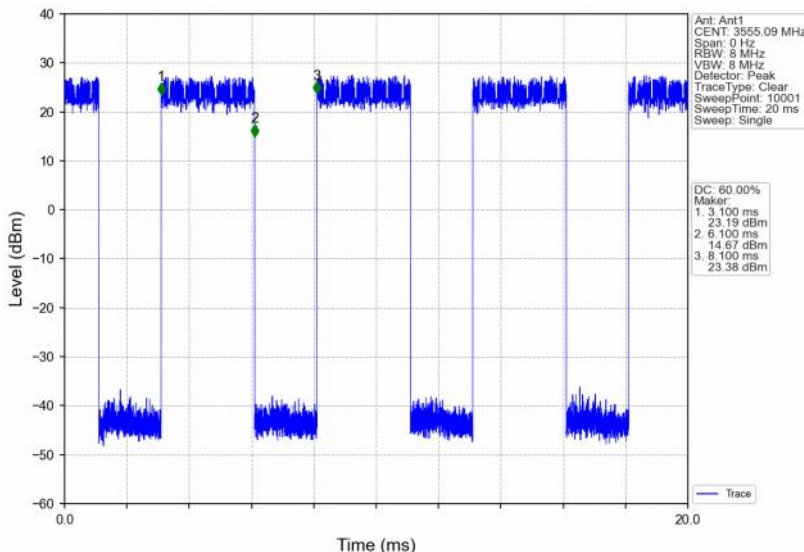


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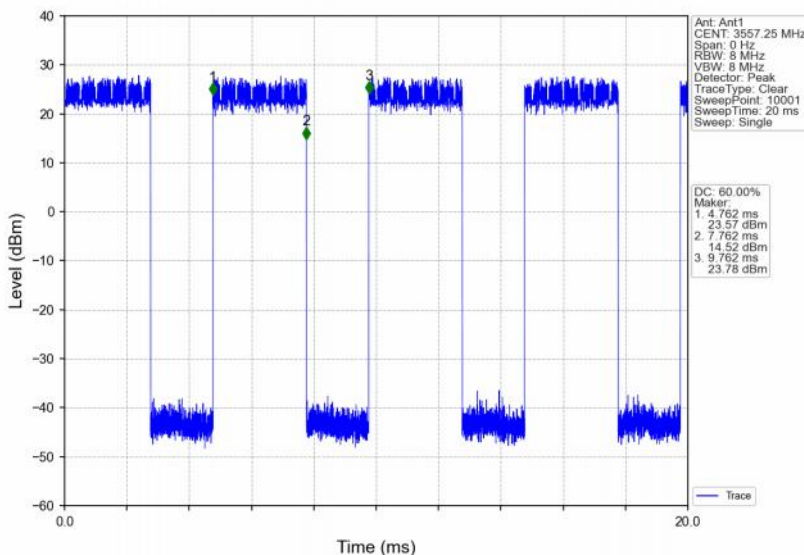
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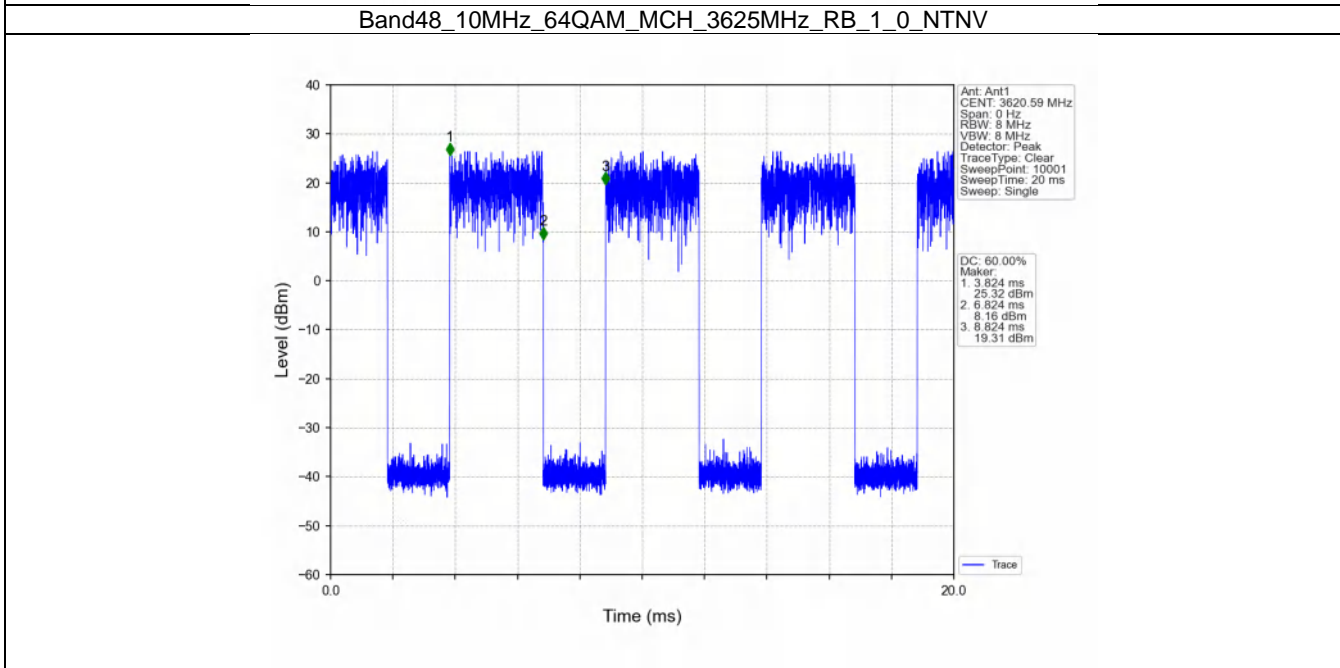
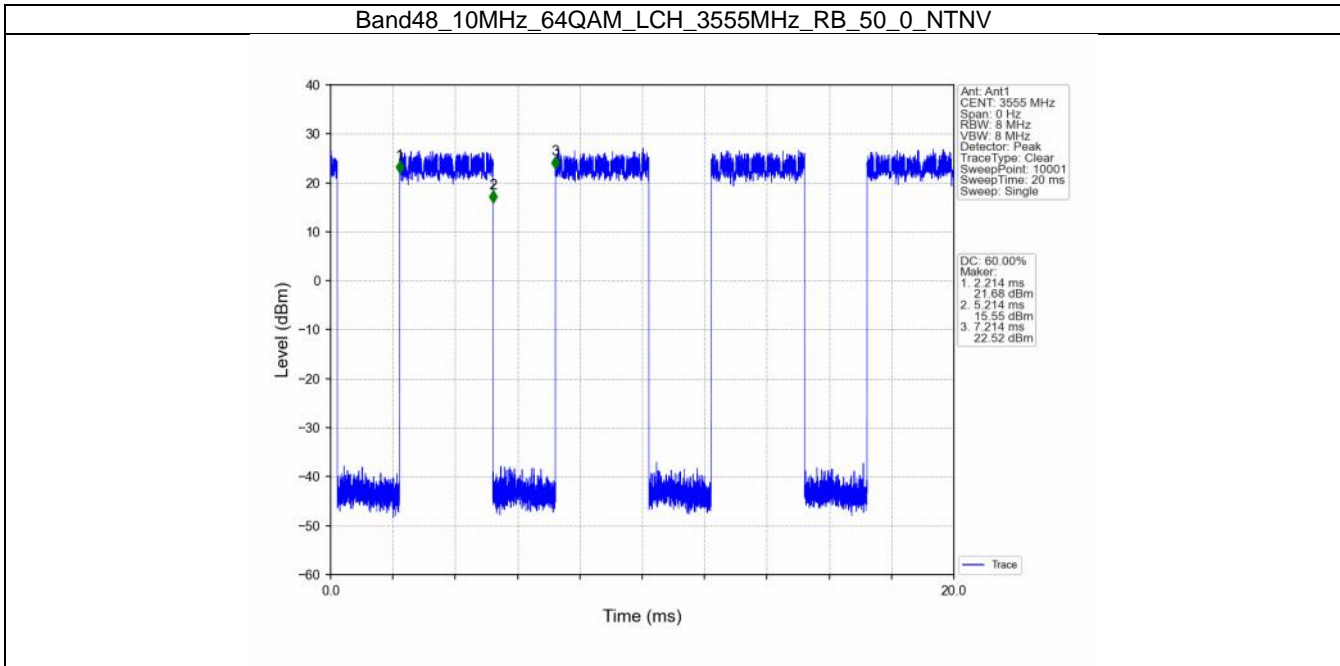
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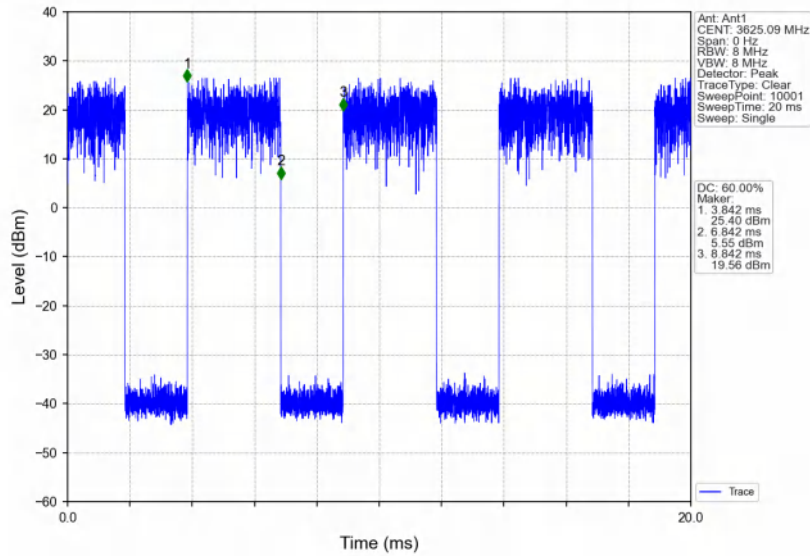


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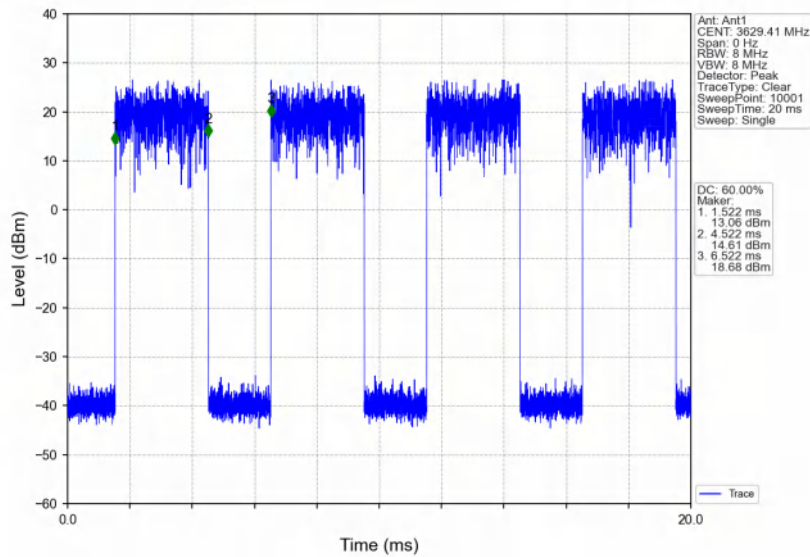
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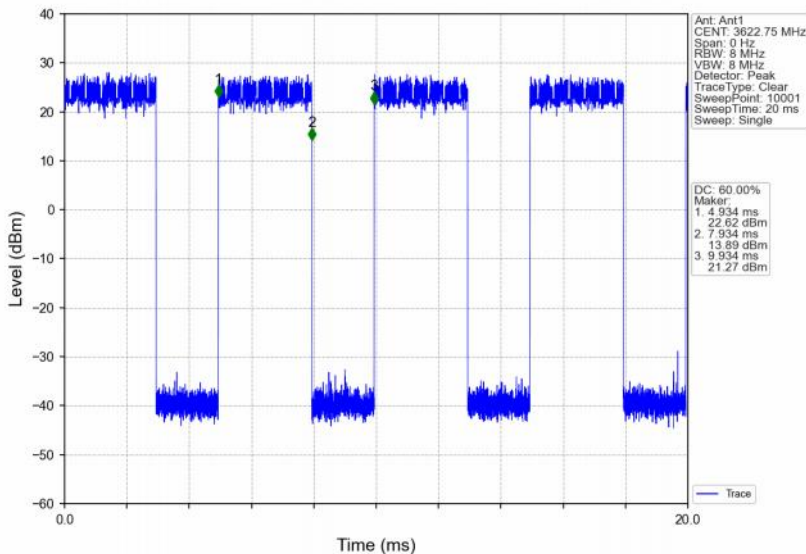


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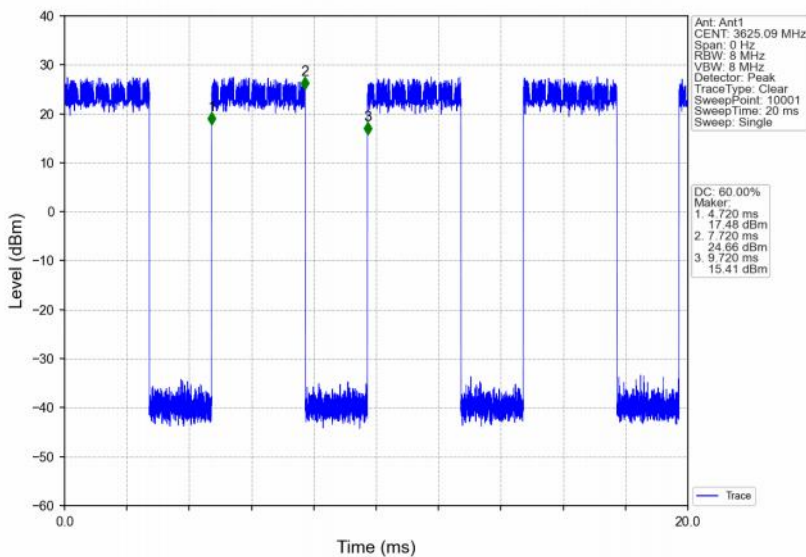
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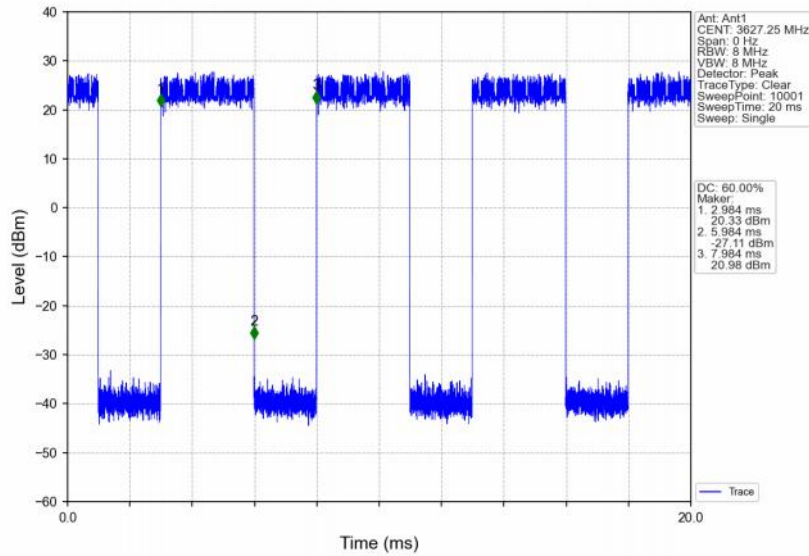


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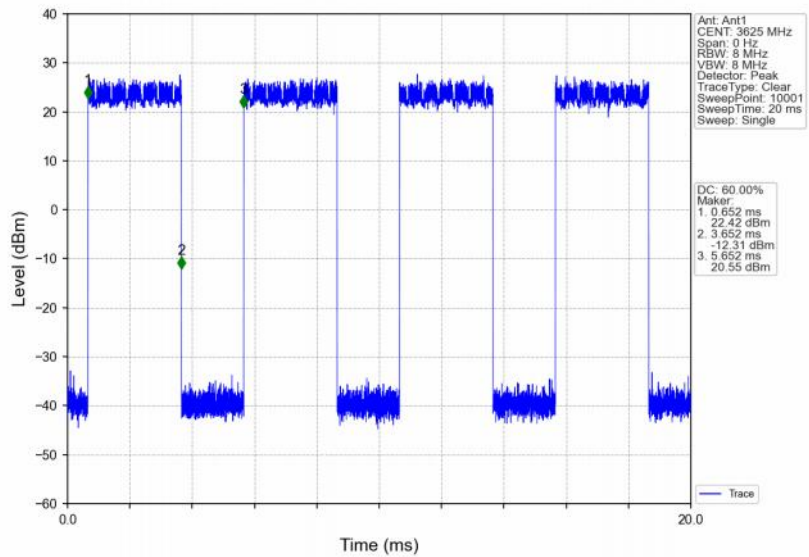
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Band48_10MHz_64QAM_MCH_3625MHz_RB_50_0_NTNV

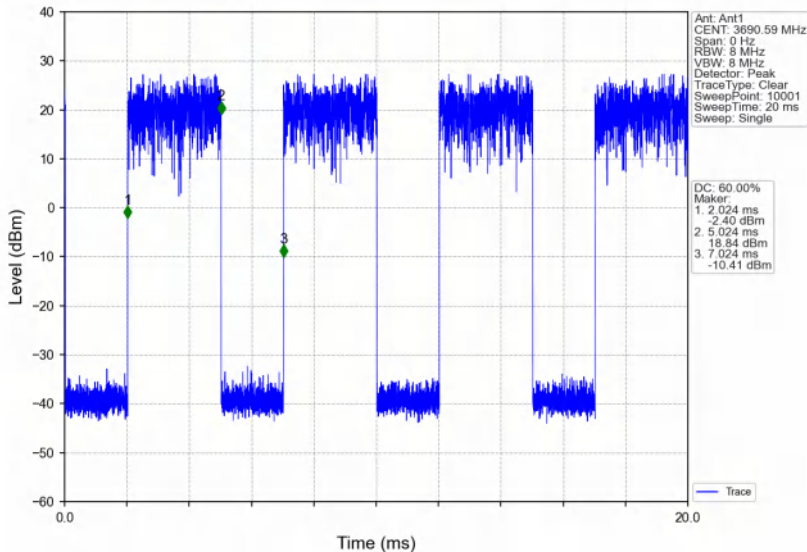


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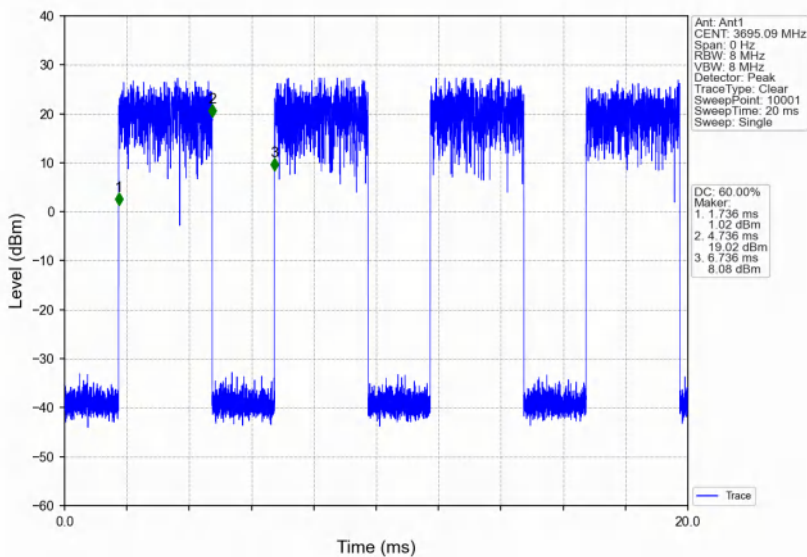
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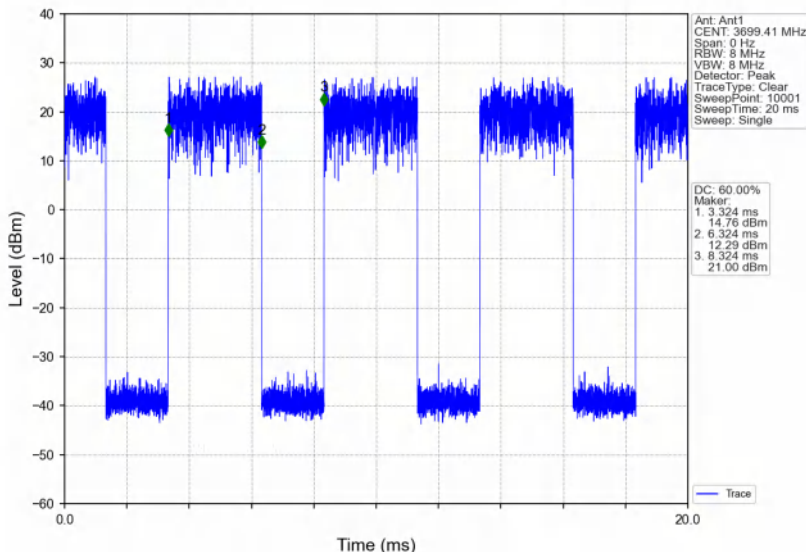


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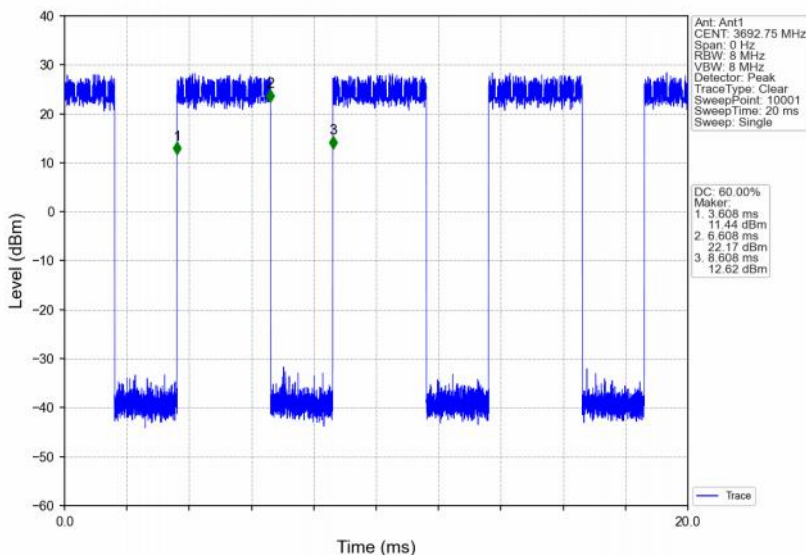
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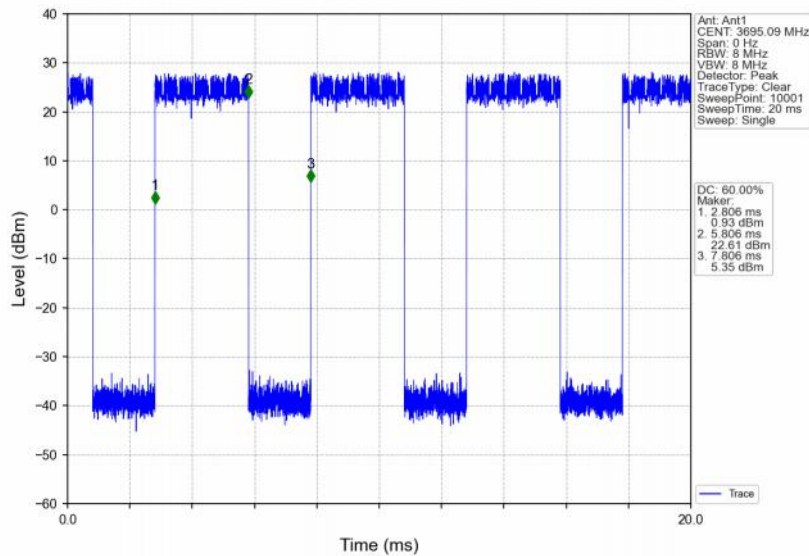


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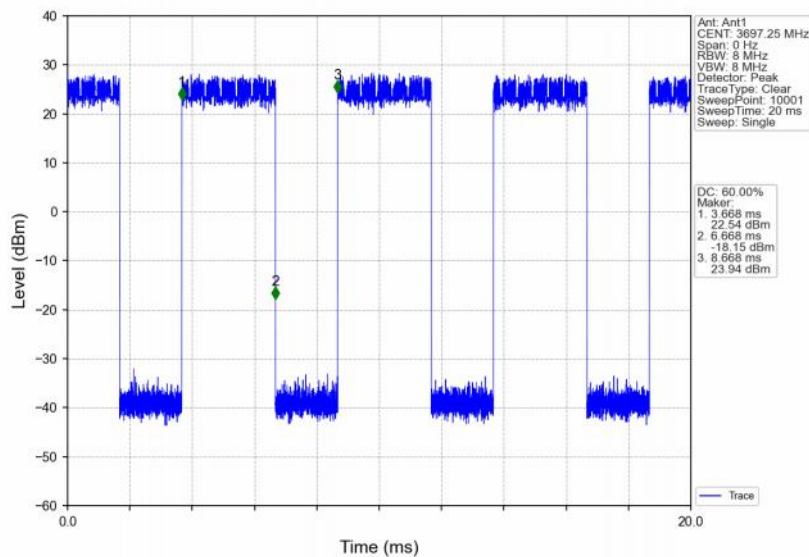
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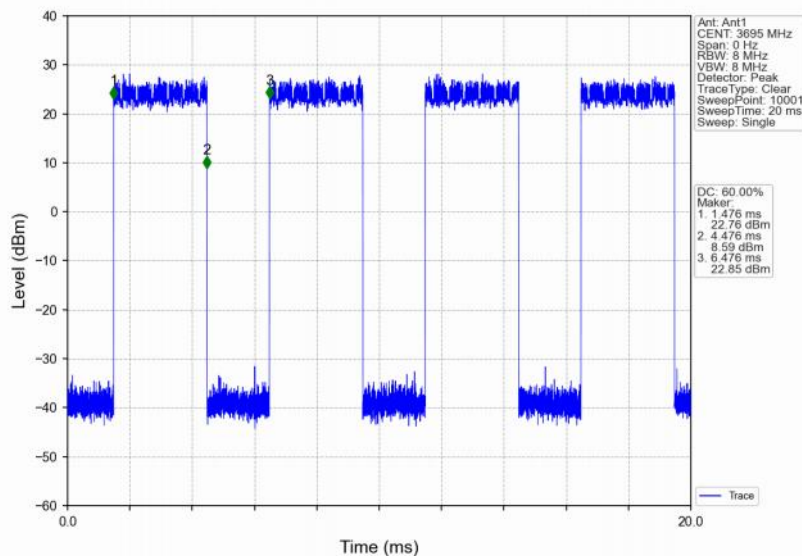


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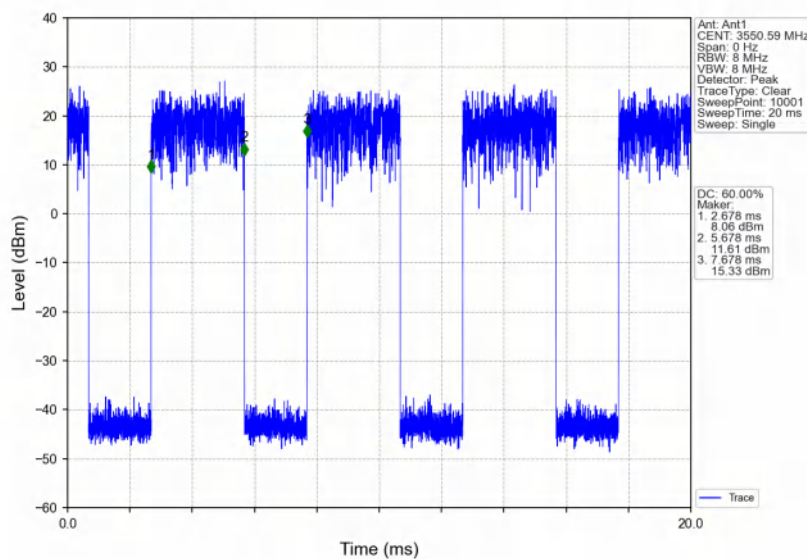
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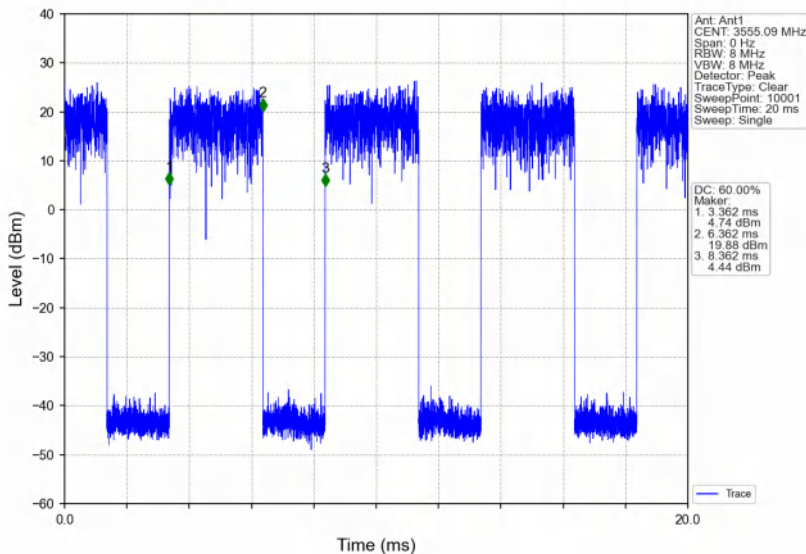


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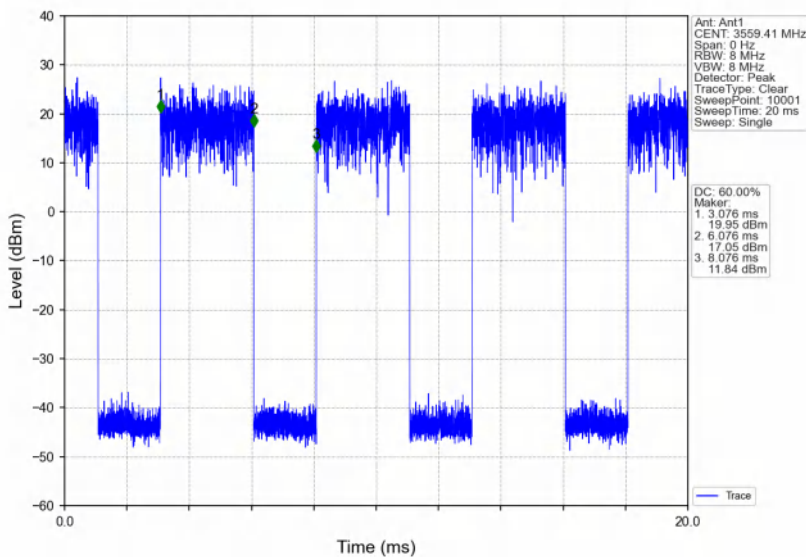
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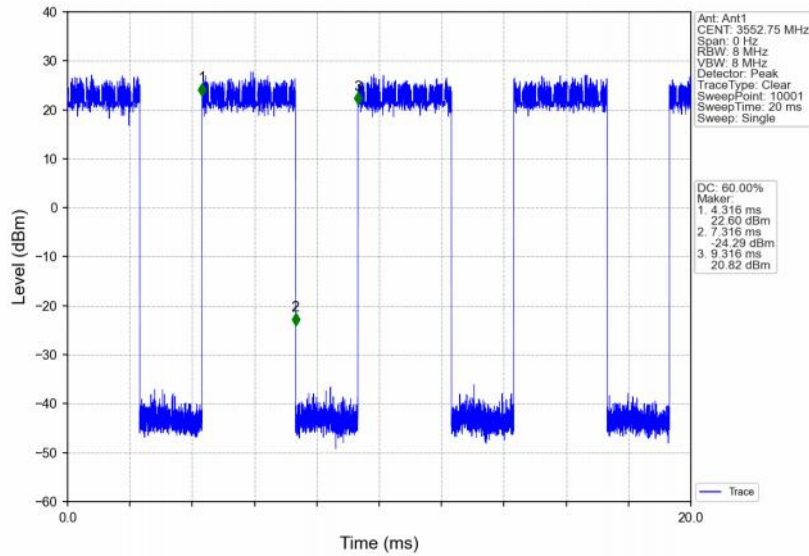


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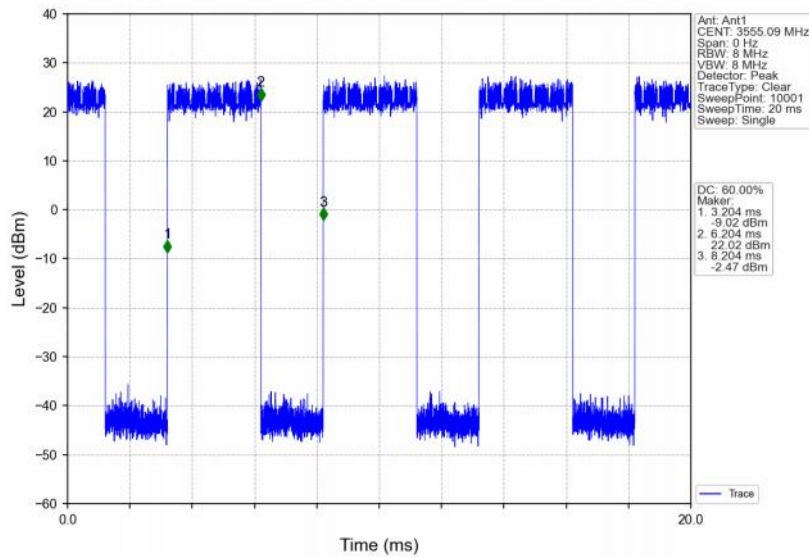
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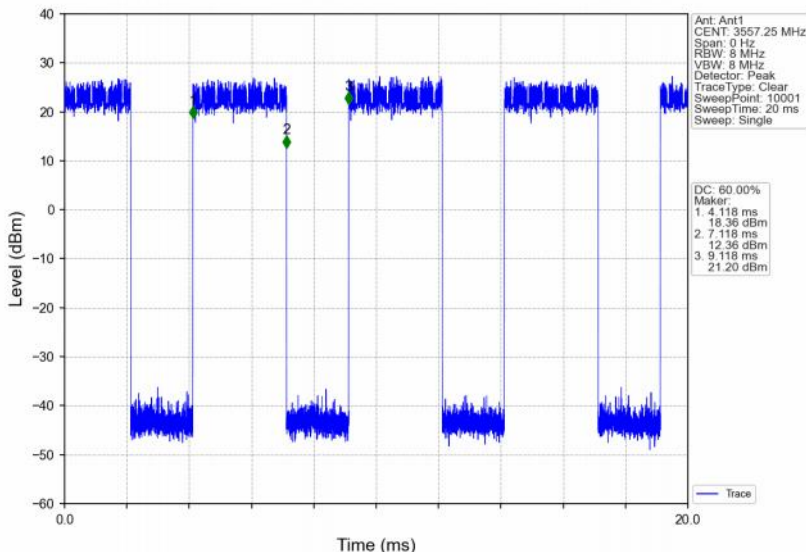


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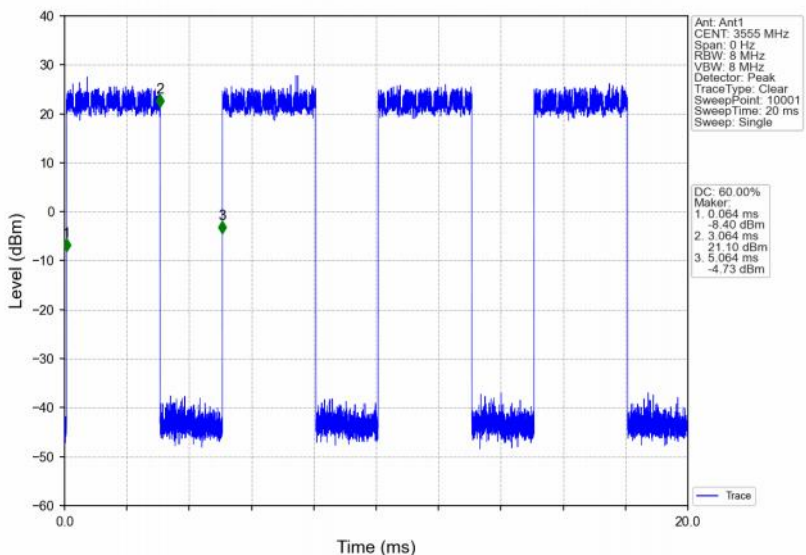
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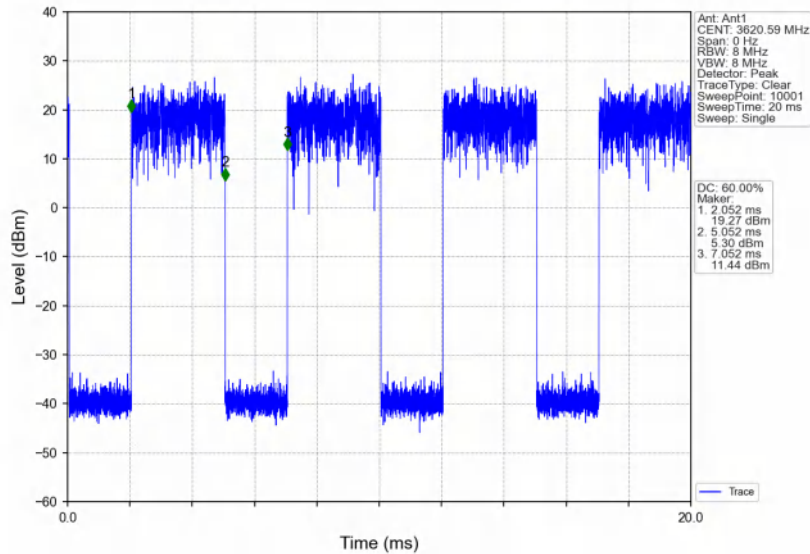


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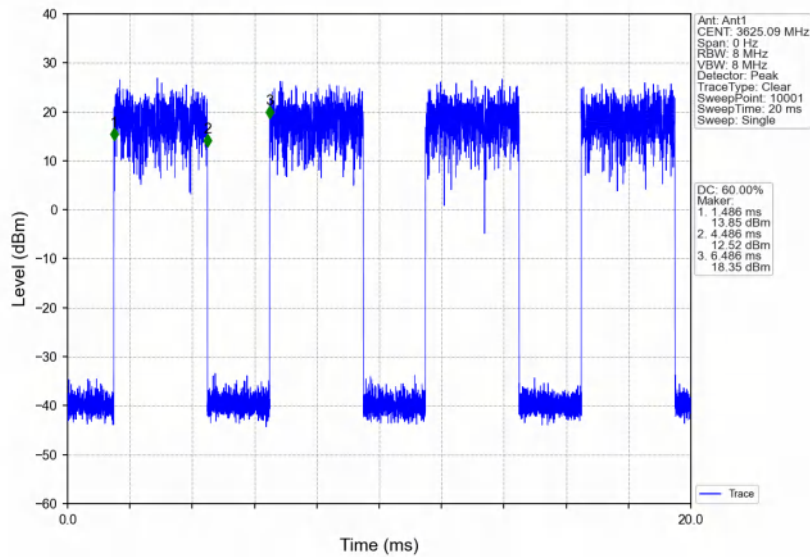
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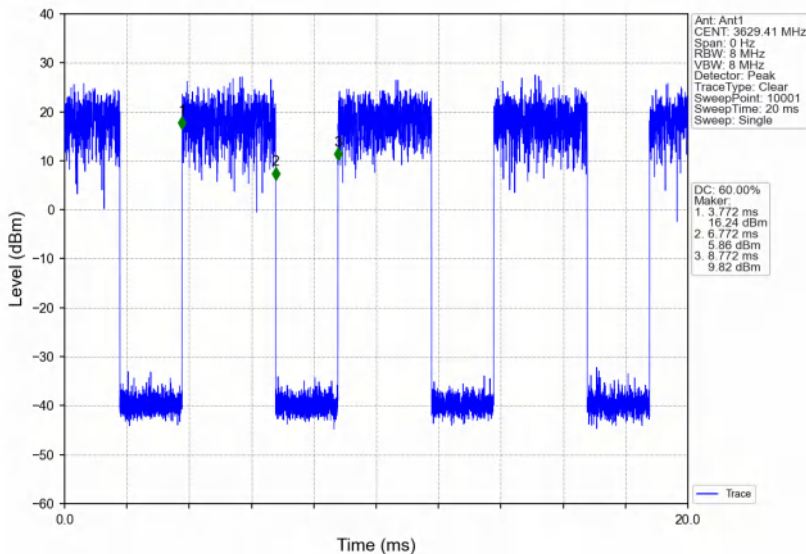


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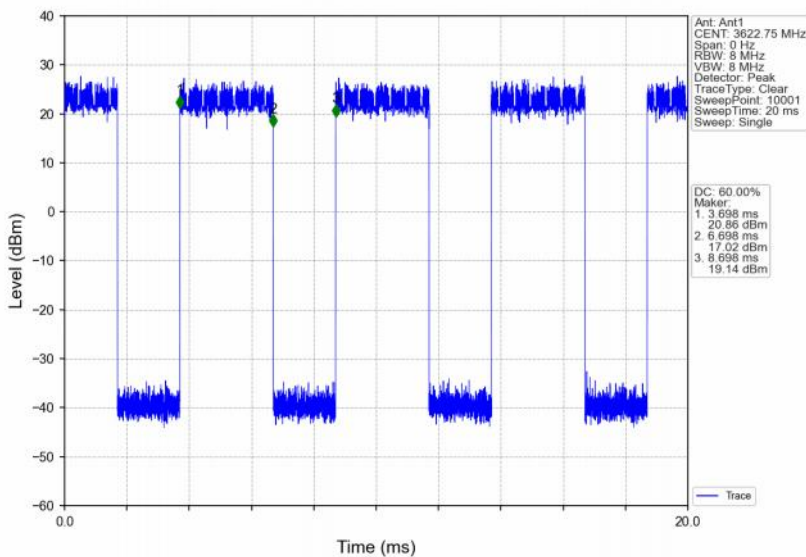
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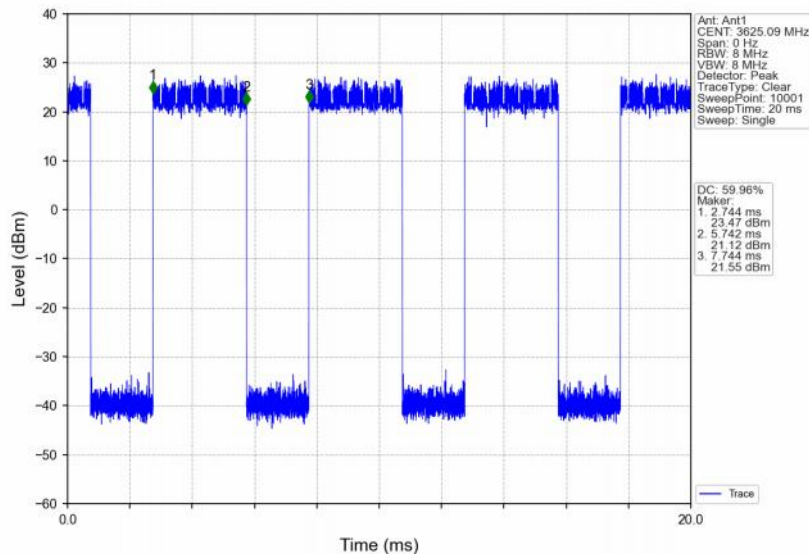


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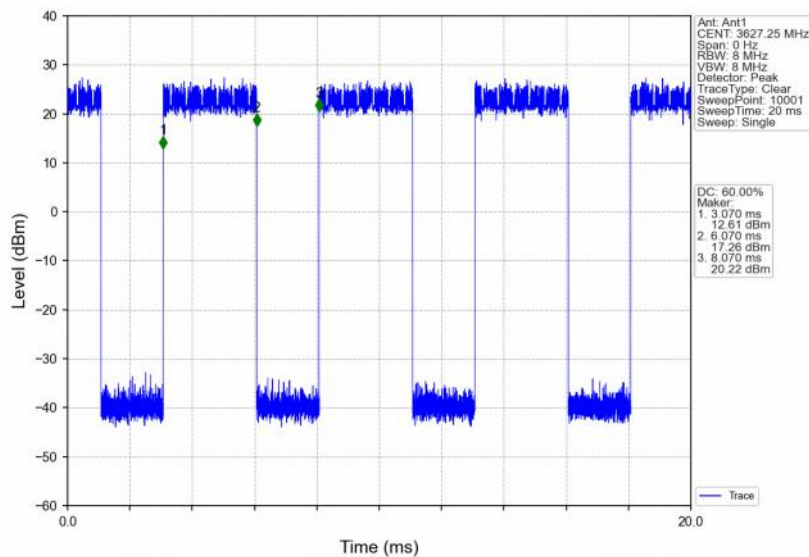
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