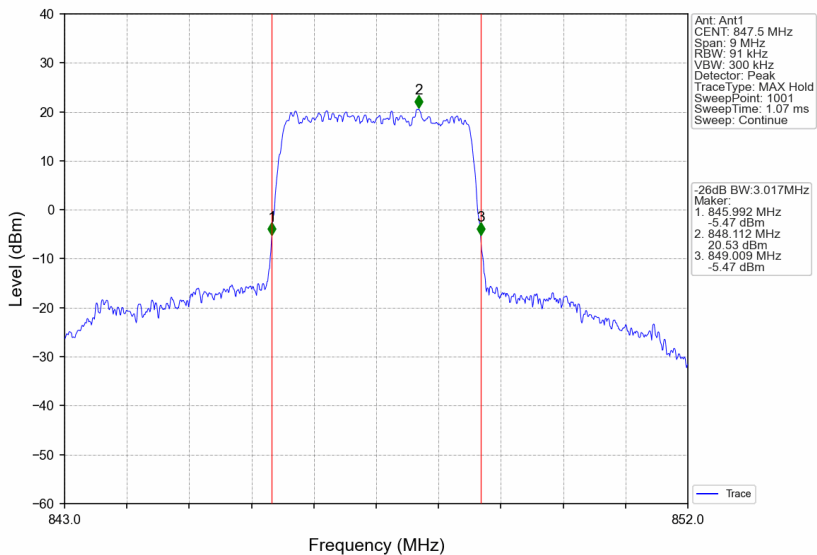
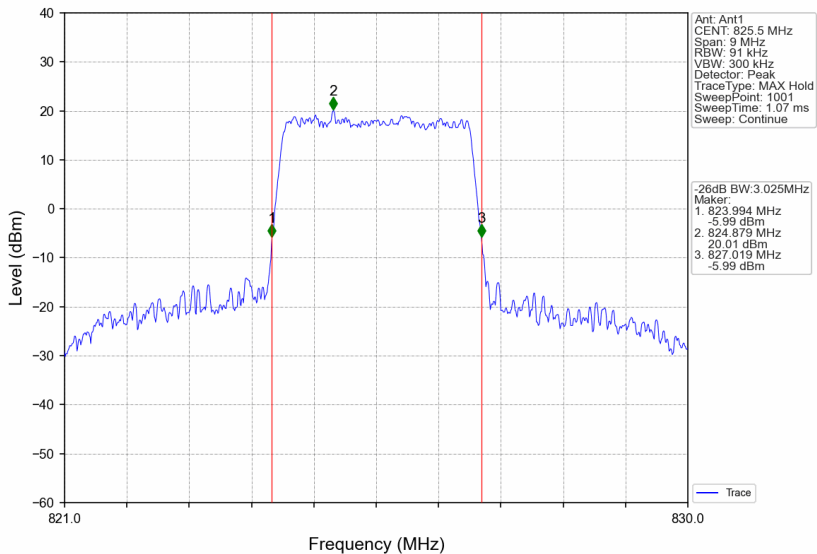


Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

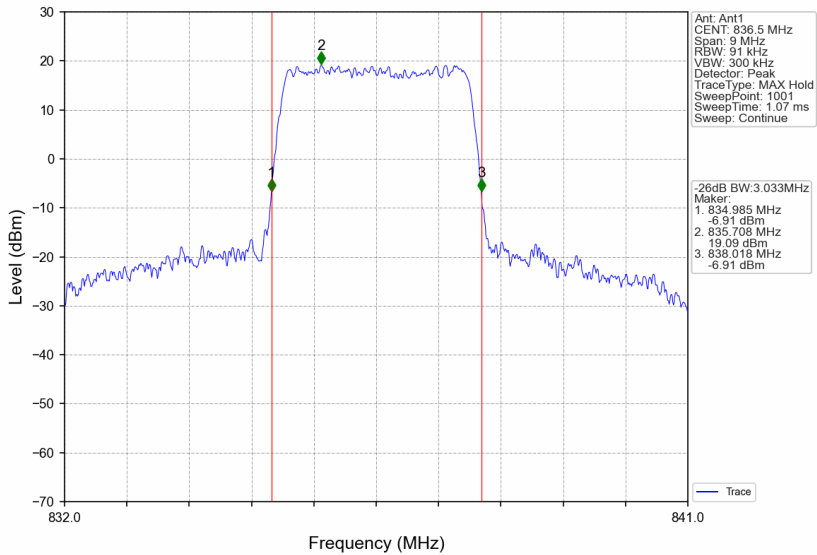


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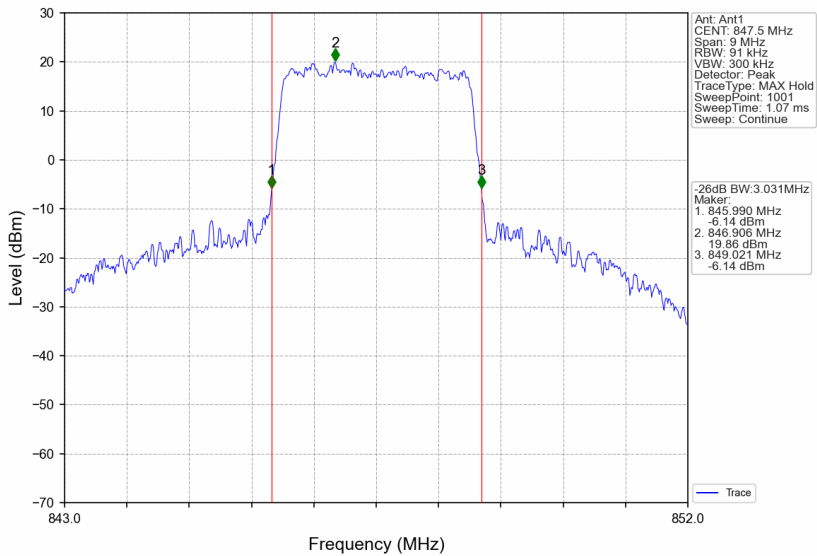
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Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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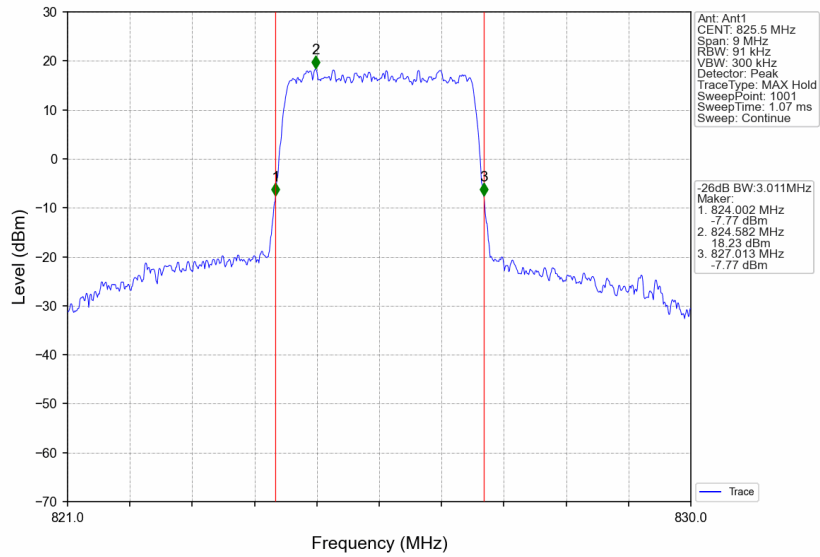
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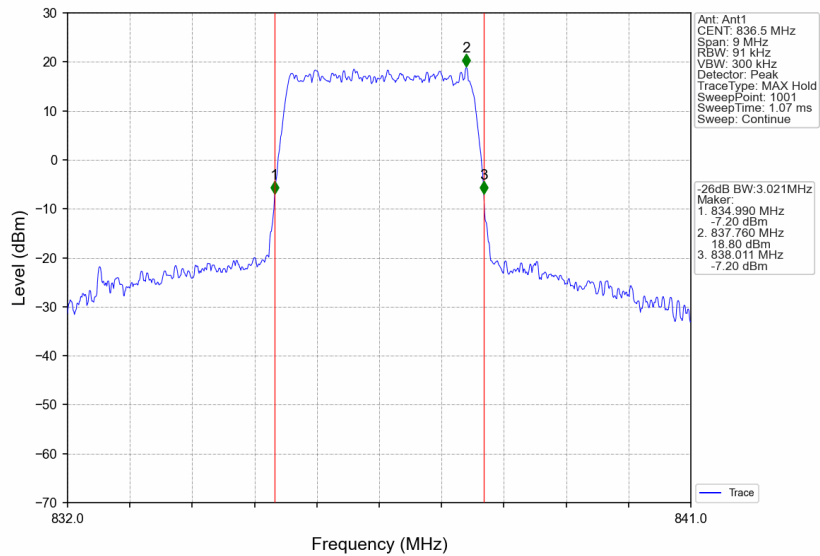
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV

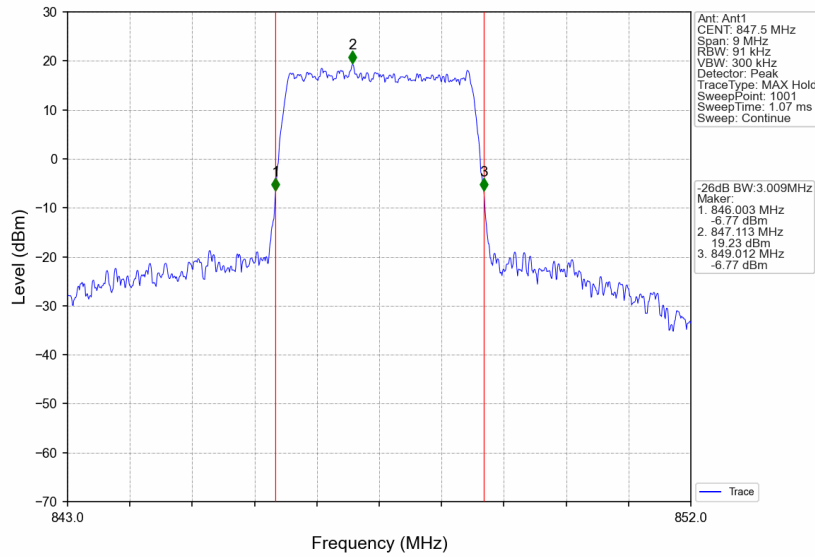


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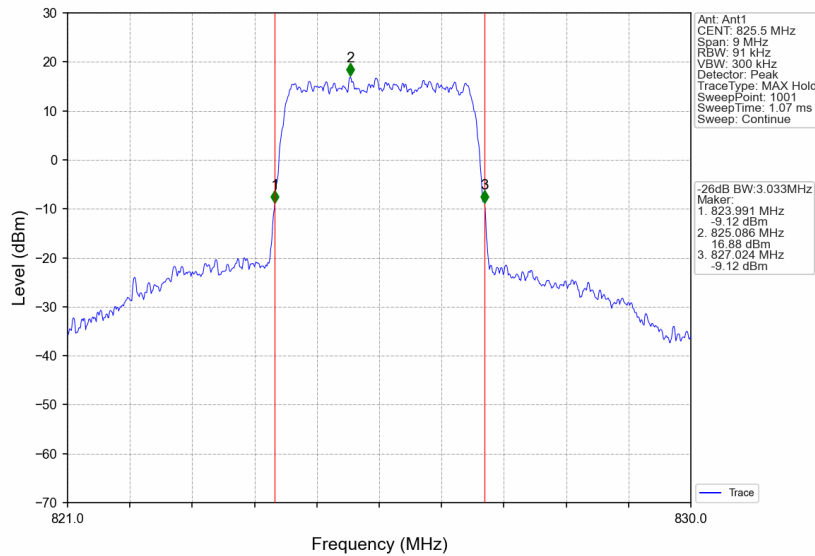
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_256QAM_LCH_825.5MHz_RB_15_0_NTNV

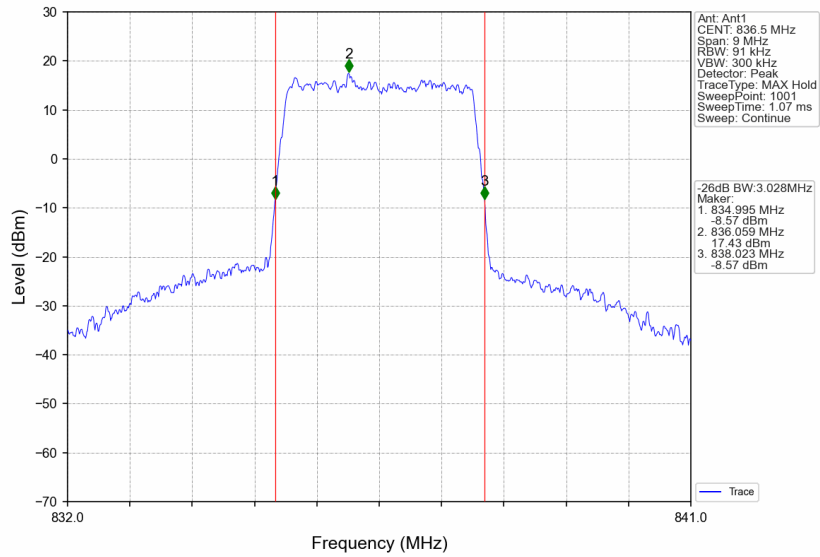


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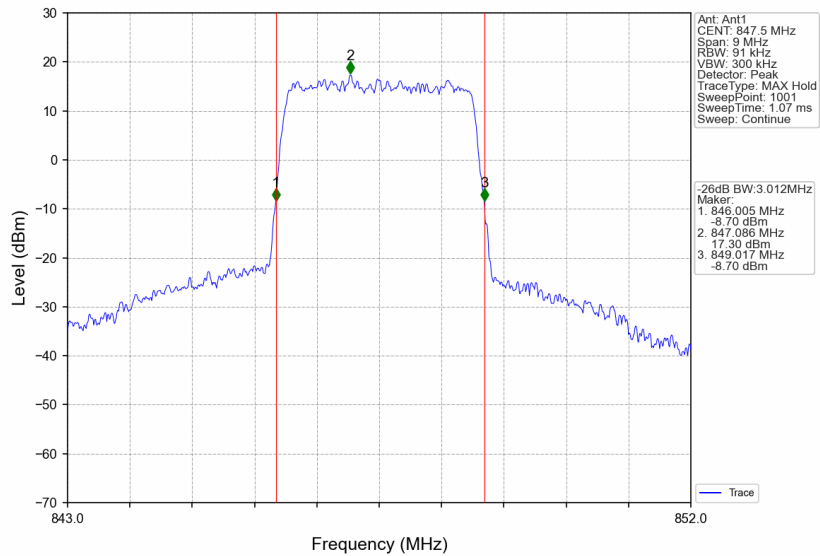
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Band5_3MHz_256QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_256QAM_HCH_847.5MHz_RB_15_0_NTNV



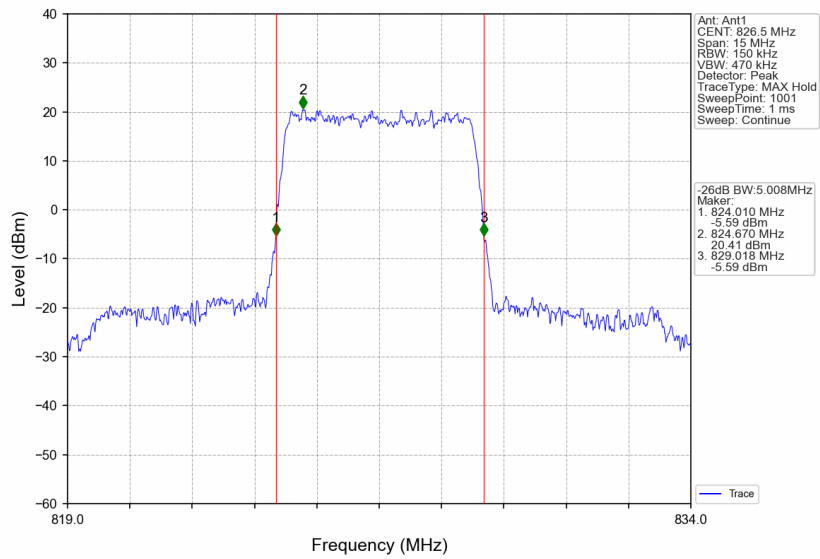
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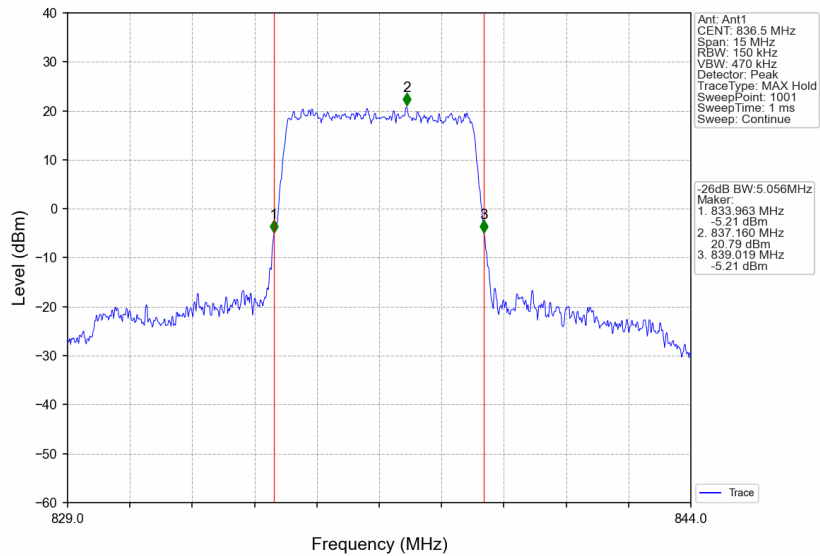
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV

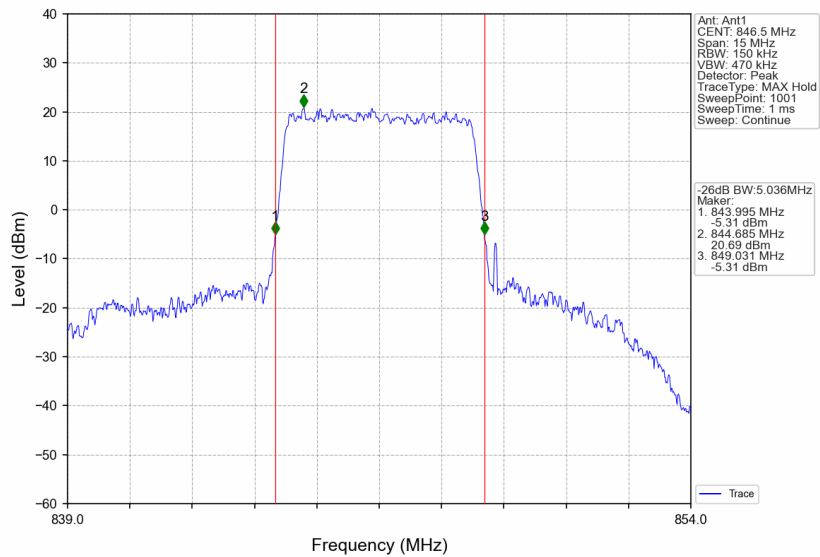


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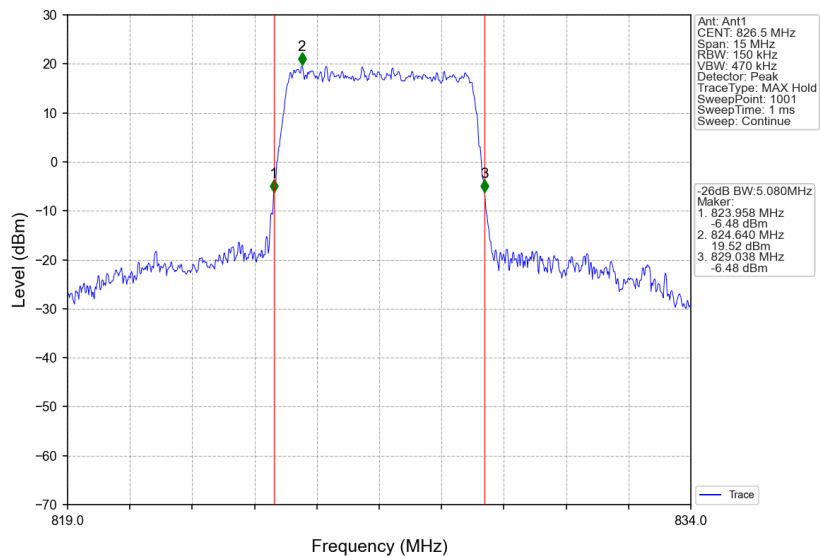
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

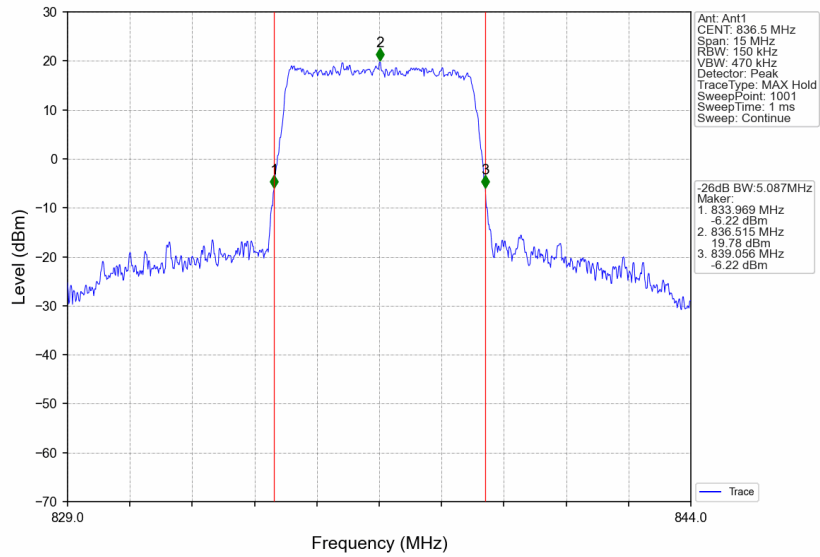


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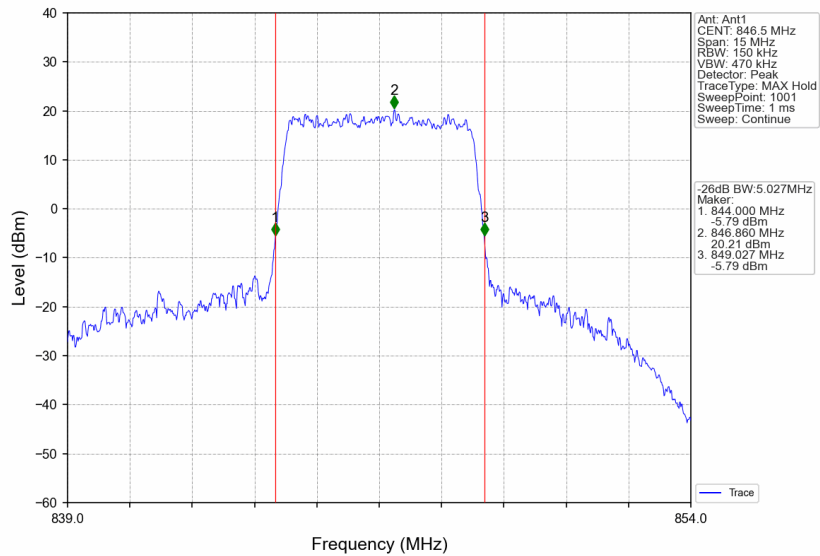
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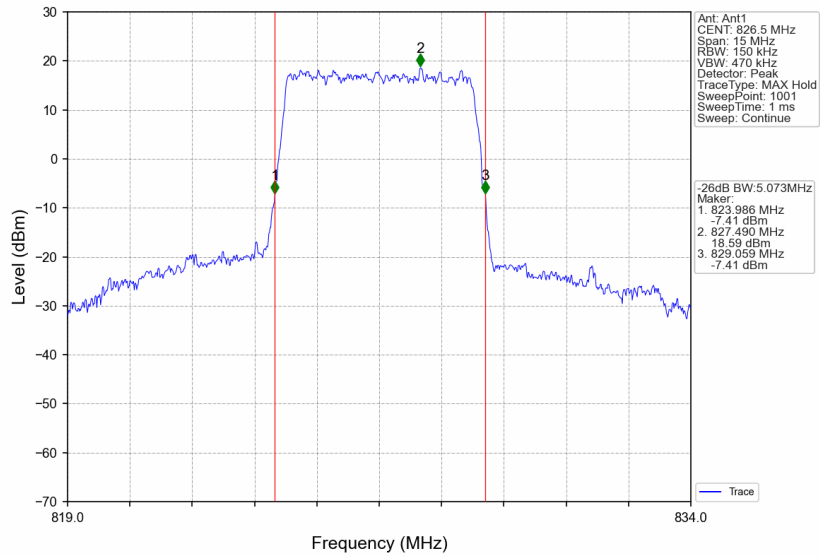


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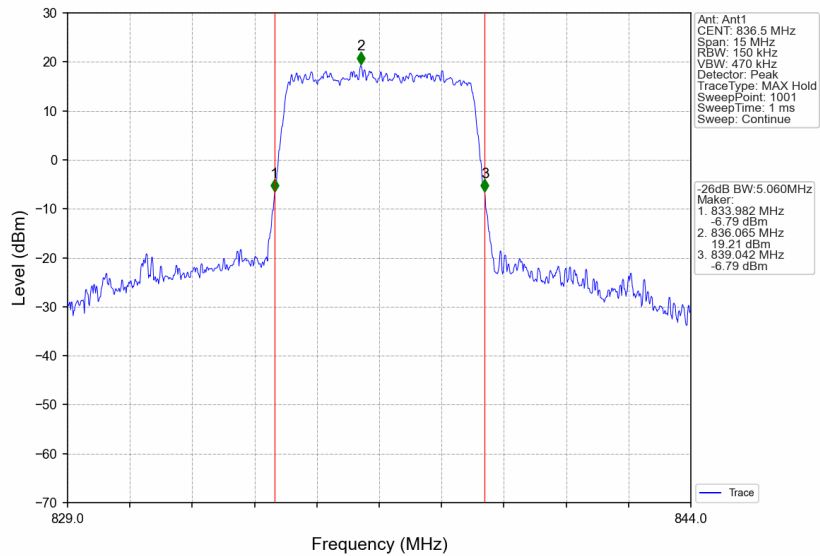
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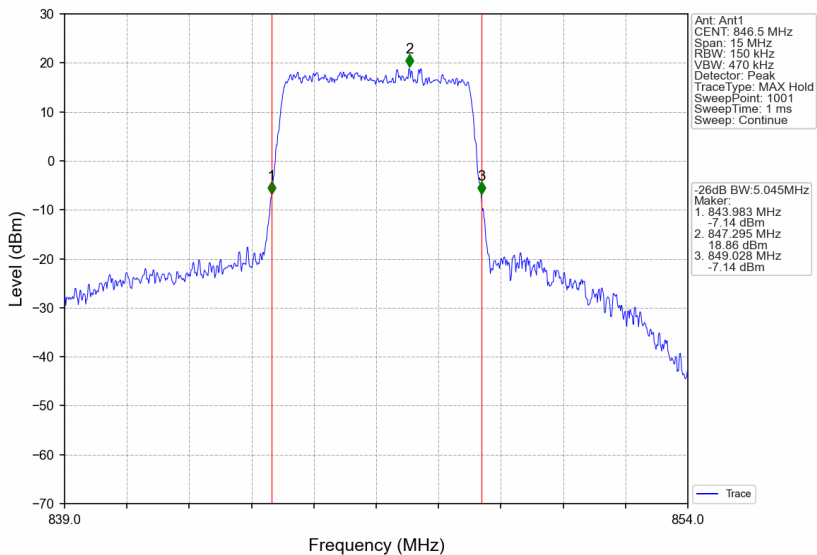


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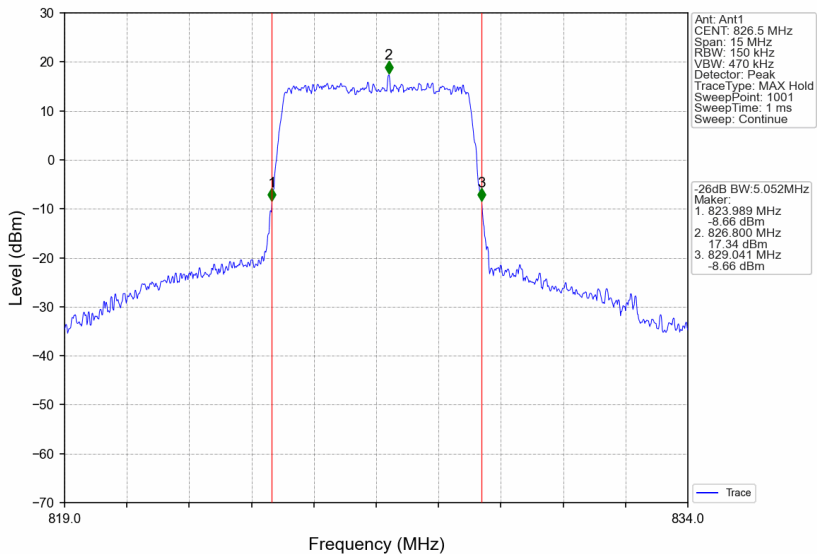
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Band5_5MHz_256QAM_LCH_826.5MHz_RB_25_0_NTNV

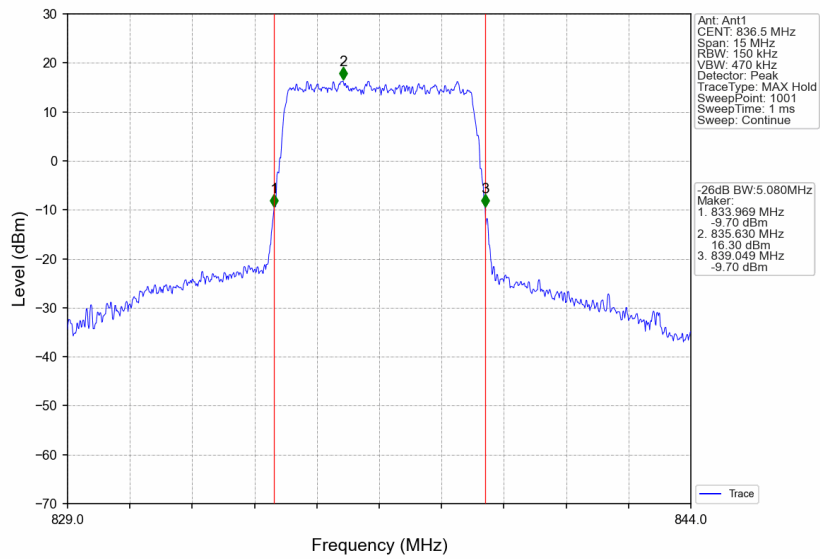


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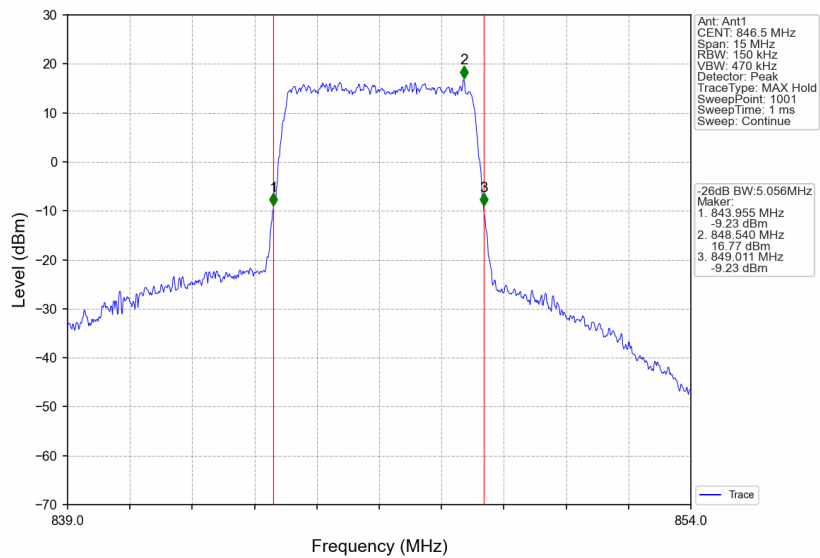
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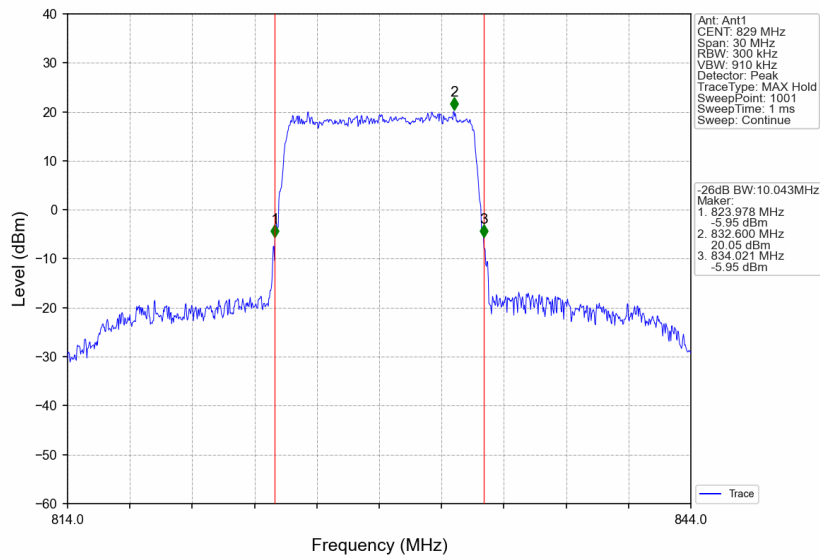
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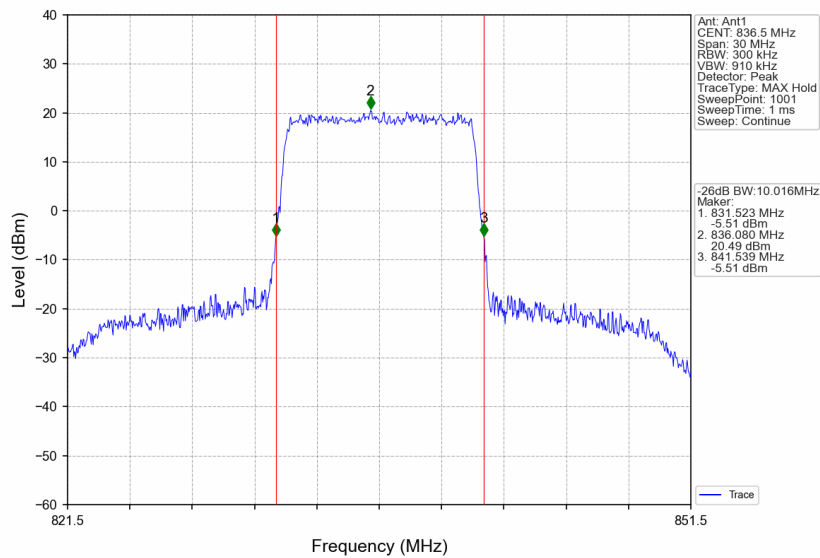
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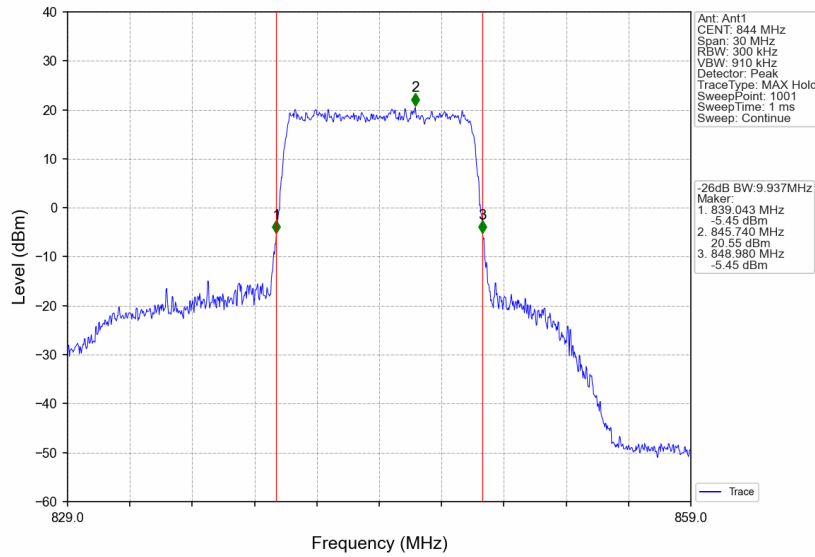
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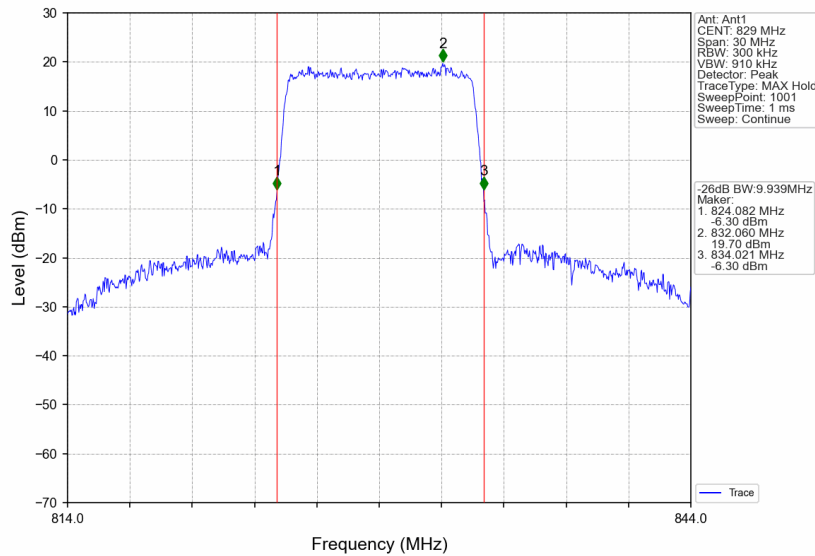
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

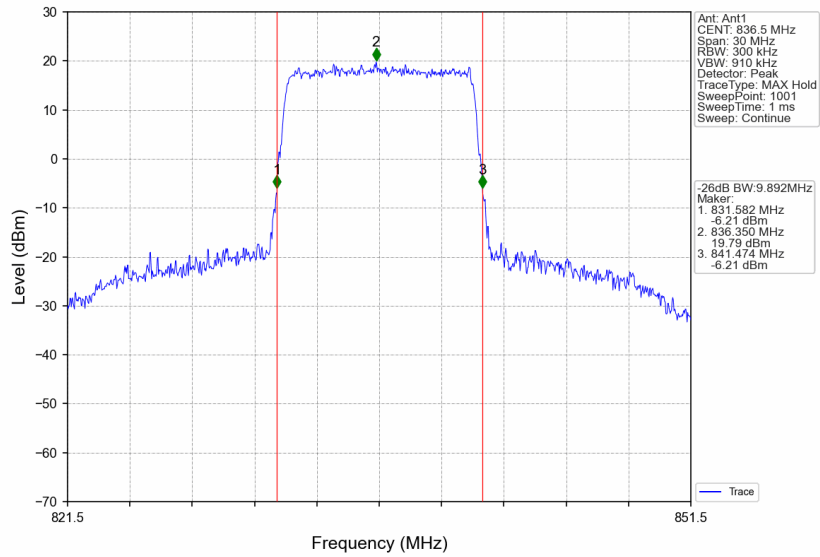


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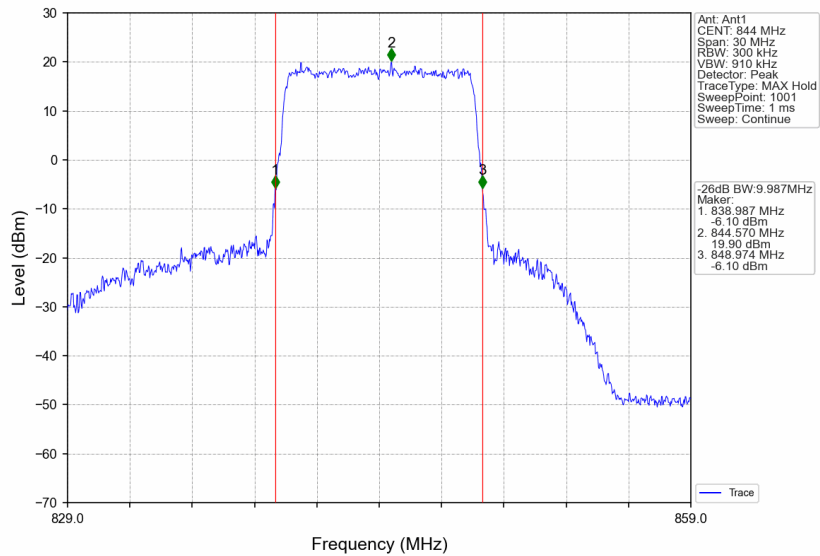
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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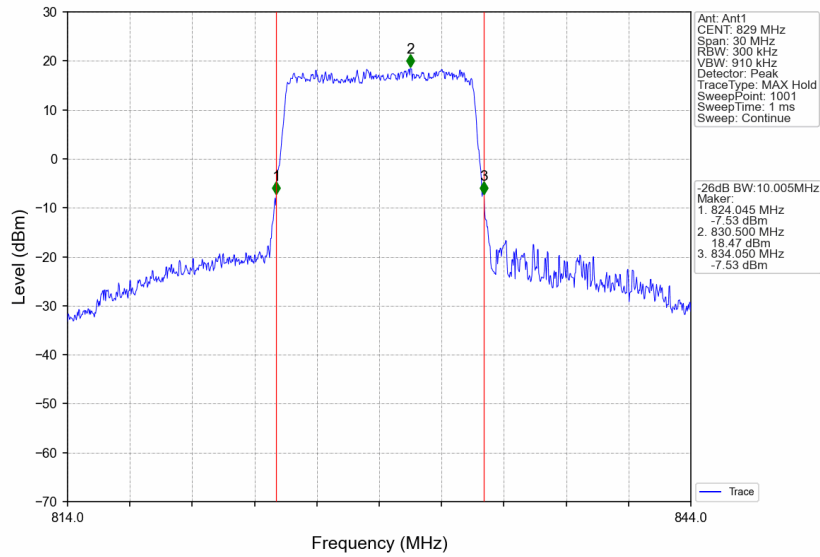
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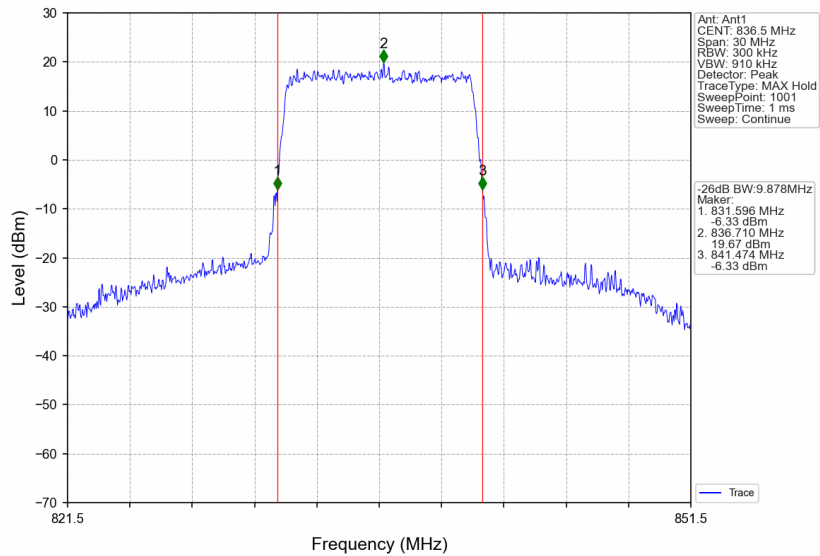
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_MCH_836.5MHz_RB_50_0_NTNV

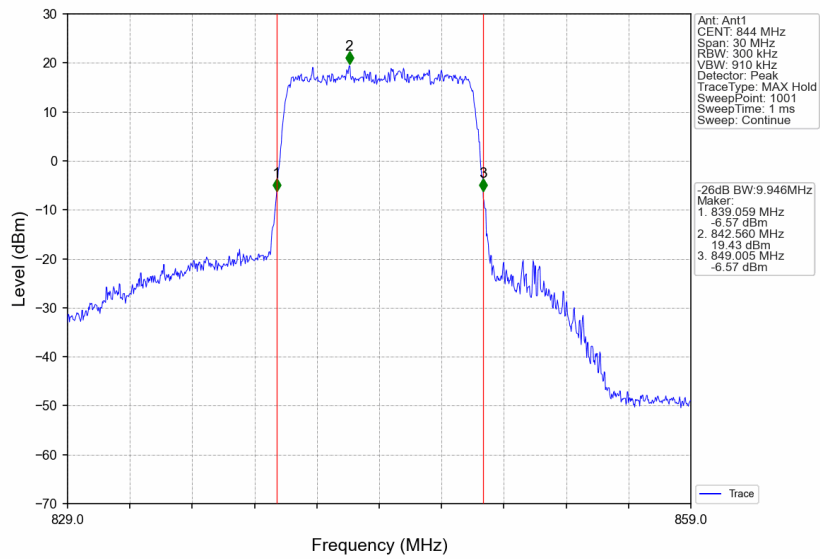


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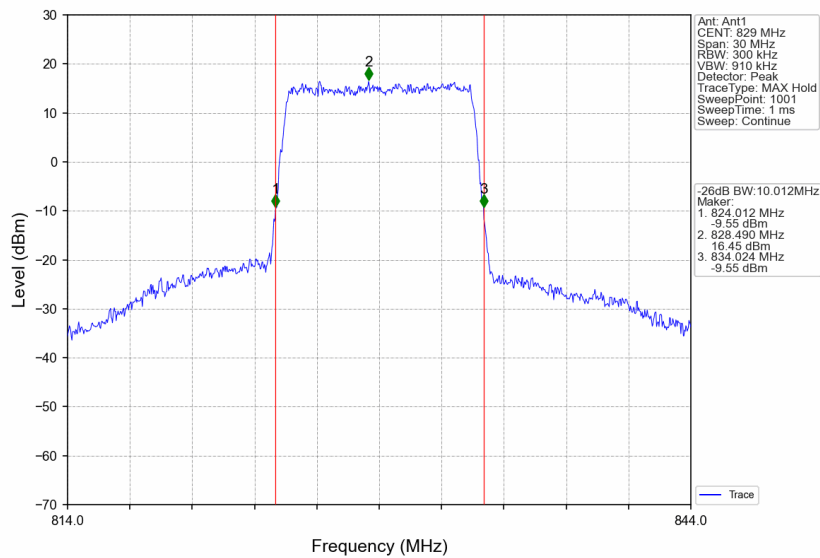
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Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_256QAM_LCH_829MHz_RB_50_0_NTNV



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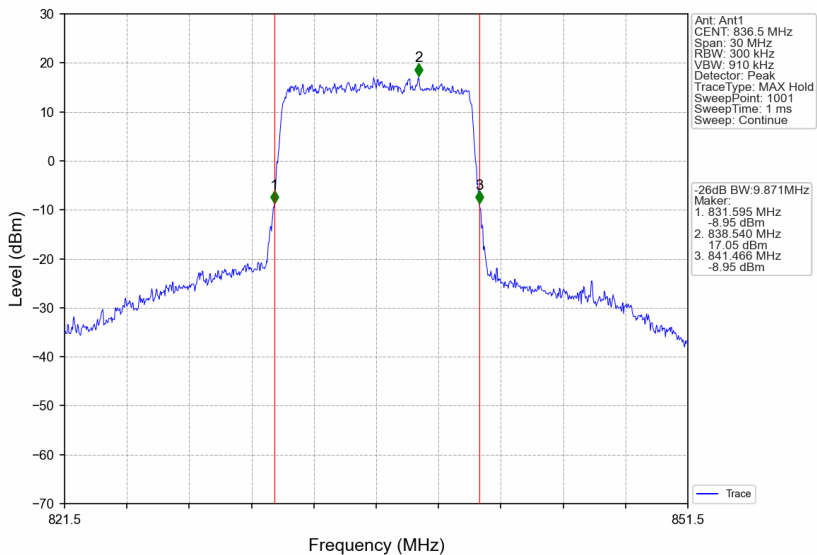
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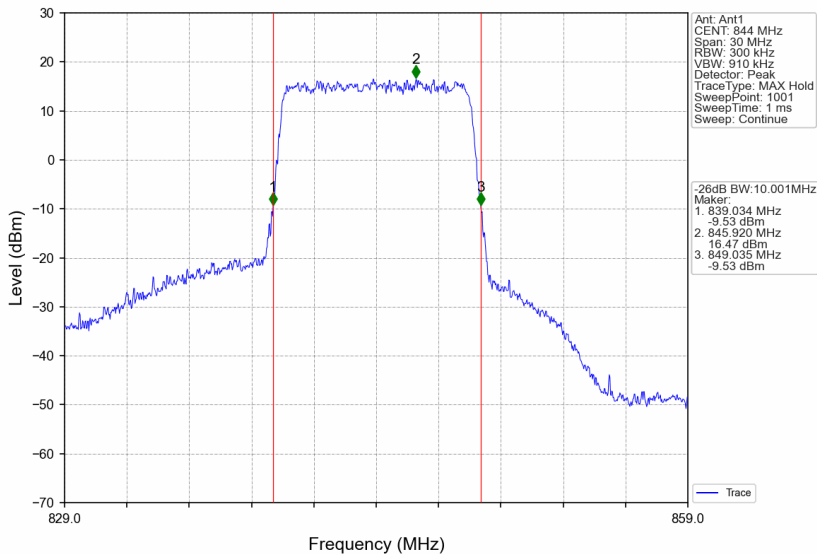
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4. Peak-Average Ratio

4.1 B5_1.4MHz

4.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.33	<=13	Pass
	836.5	6	0	5.16	<=13	Pass
	848.3	6	0	4.77	<=13	Pass
16QAM	824.7	6	0	6.11	<=13	Pass
	836.5	6	0	6.02	<=13	Pass
	848.3	6	0	5.65	<=13	Pass
64QAM	824.7	6	0	6.78	<=13	Pass
	836.5	6	0	6.27	<=13	Pass
	848.3	6	0	6.35	<=13	Pass
256QAM	824.7	6	0	6.94	<=13	Pass
	836.5	6	0	6.73	<=13	Pass
	848.3	6	0	6.88	<=13	Pass

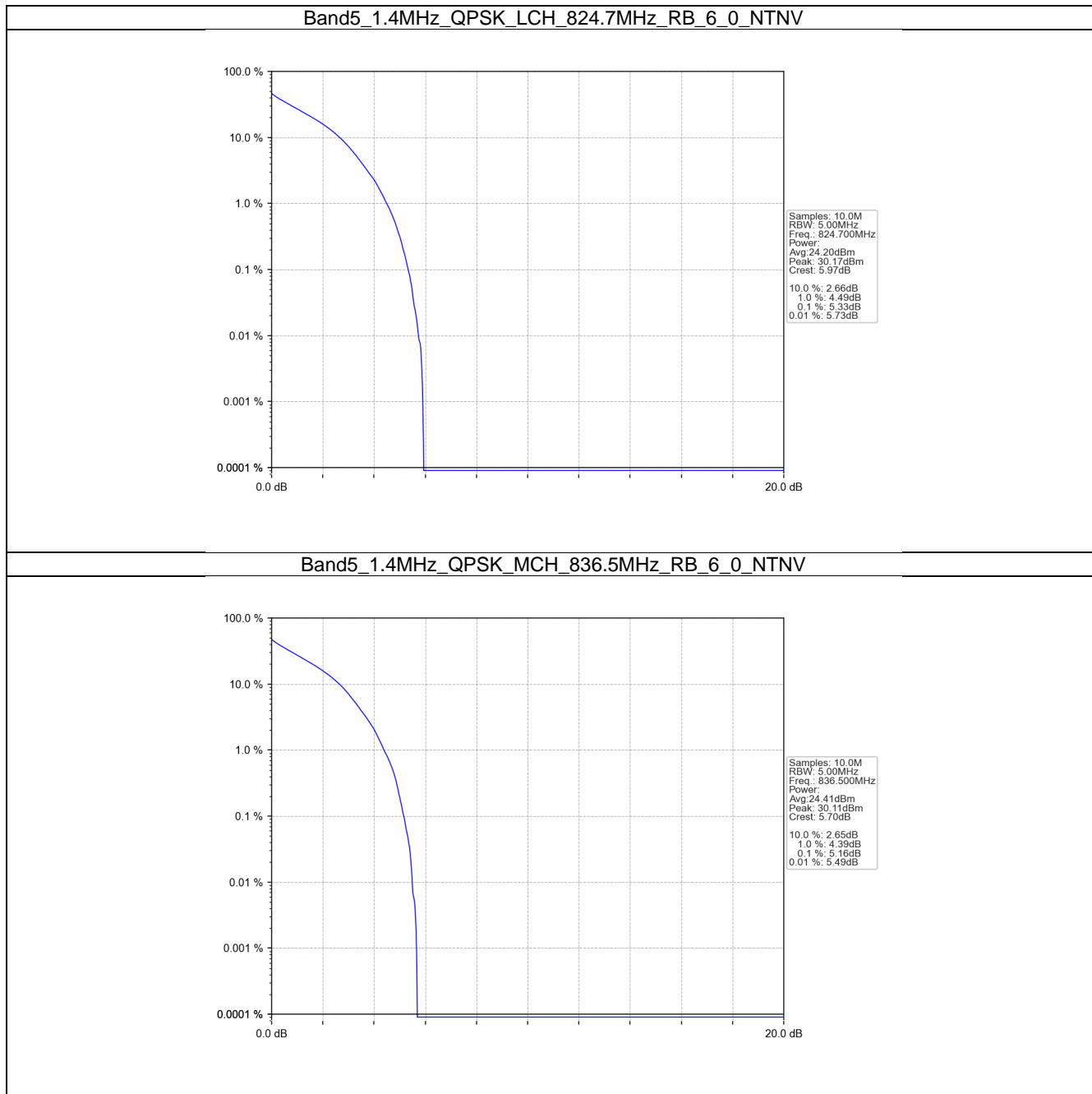


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4.1.2 Test Graph



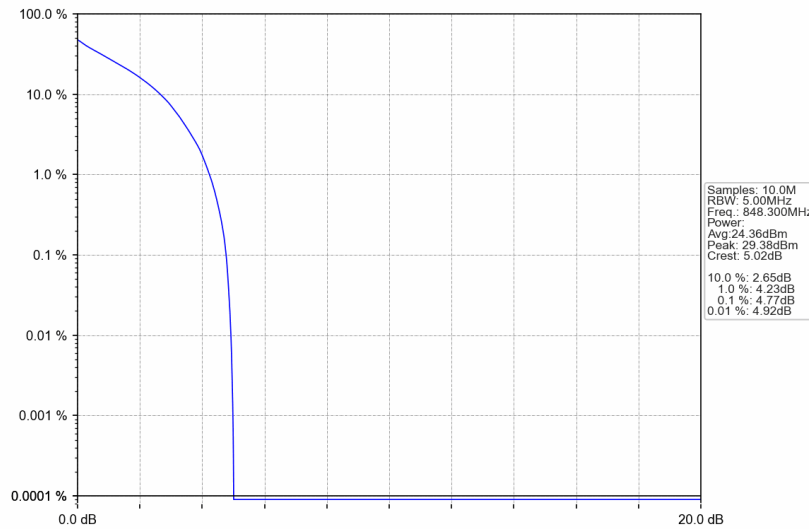
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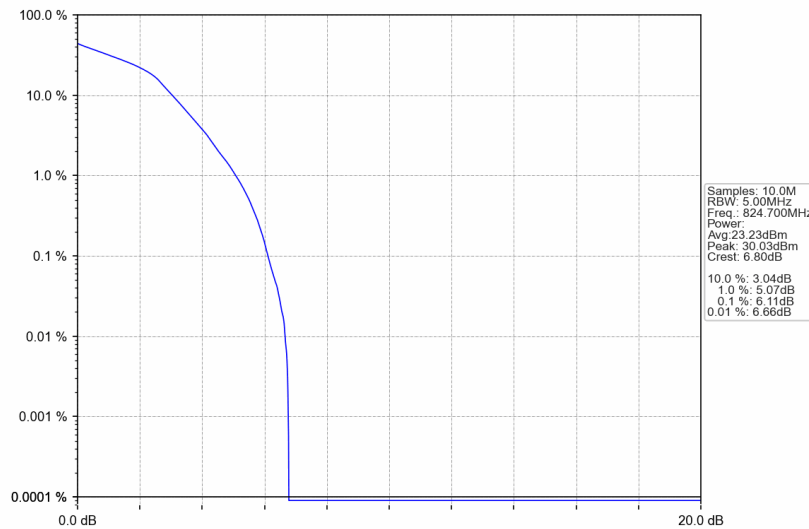
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

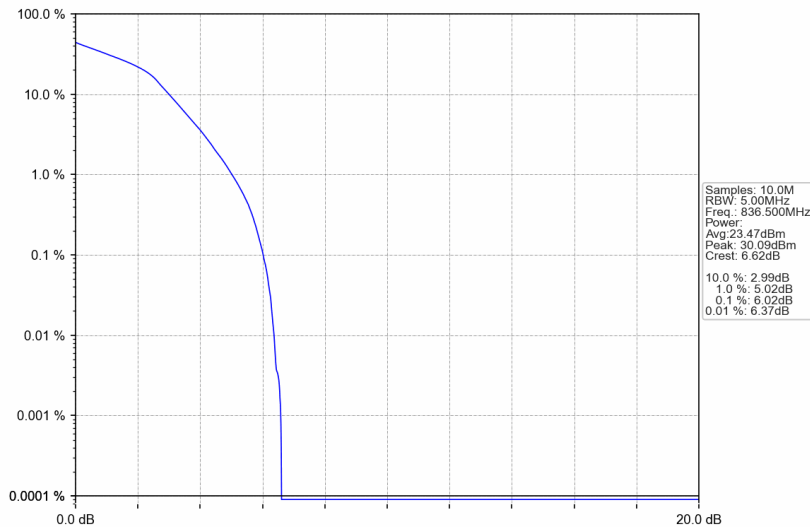


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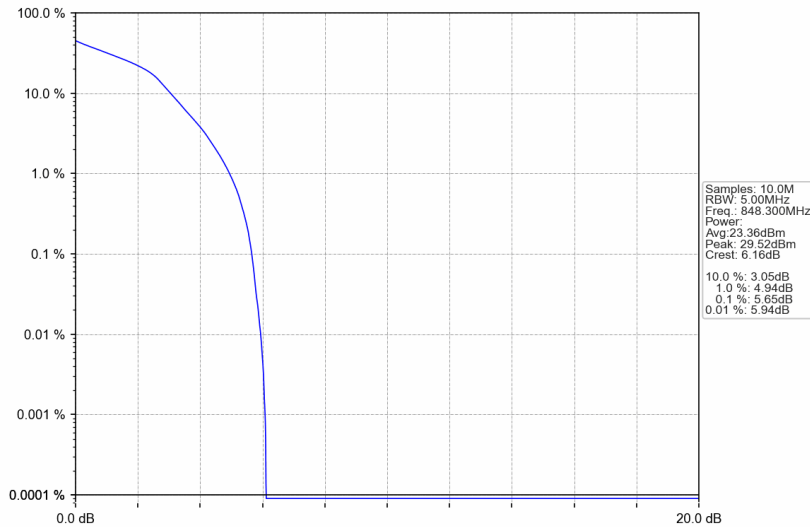
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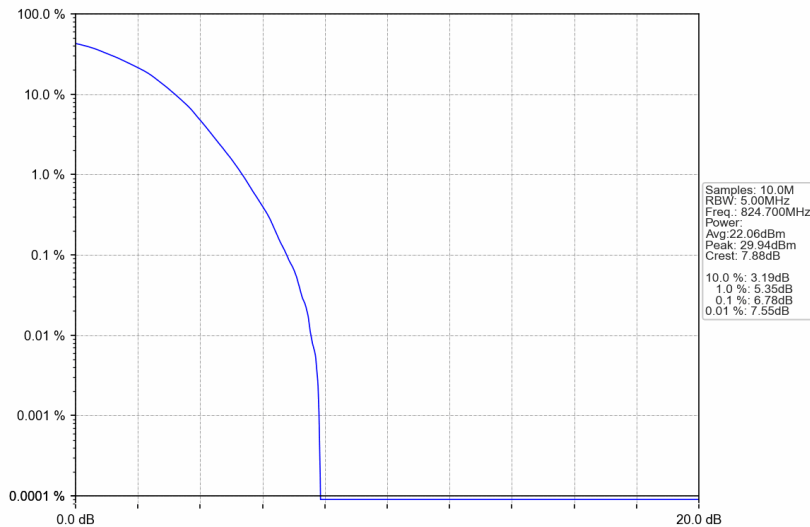
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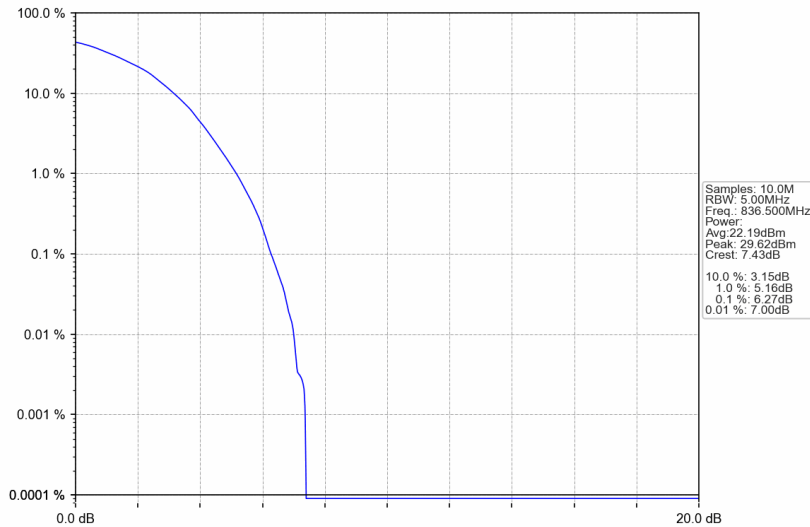
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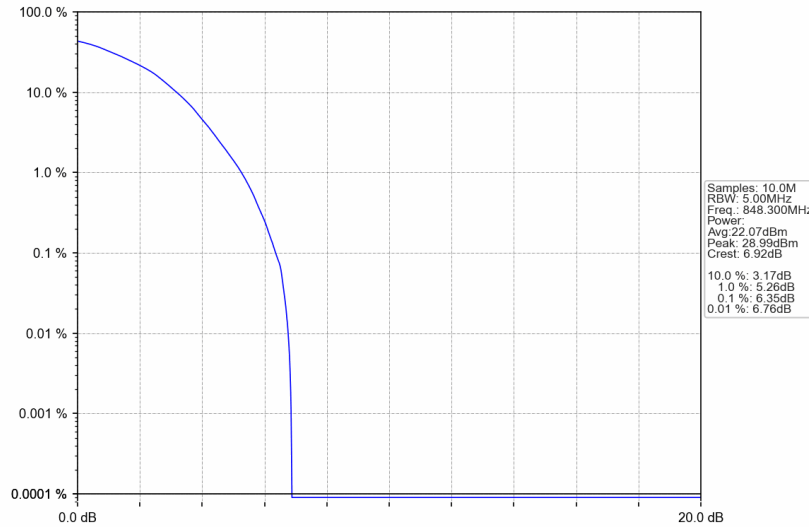


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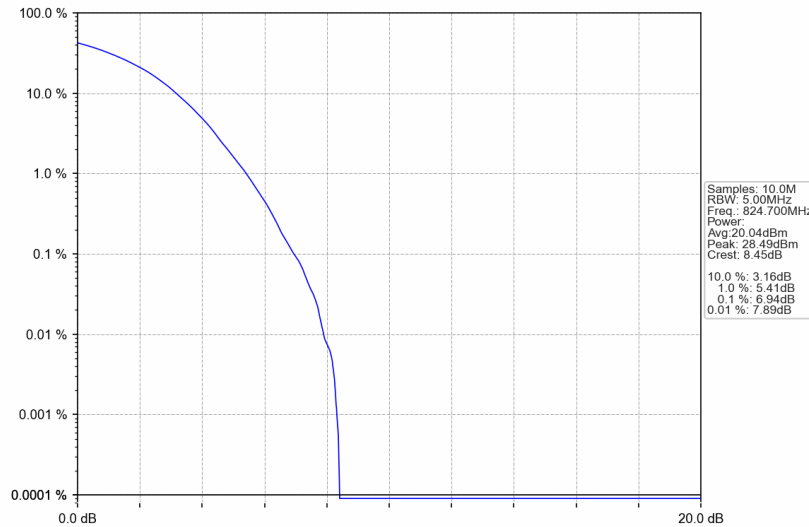
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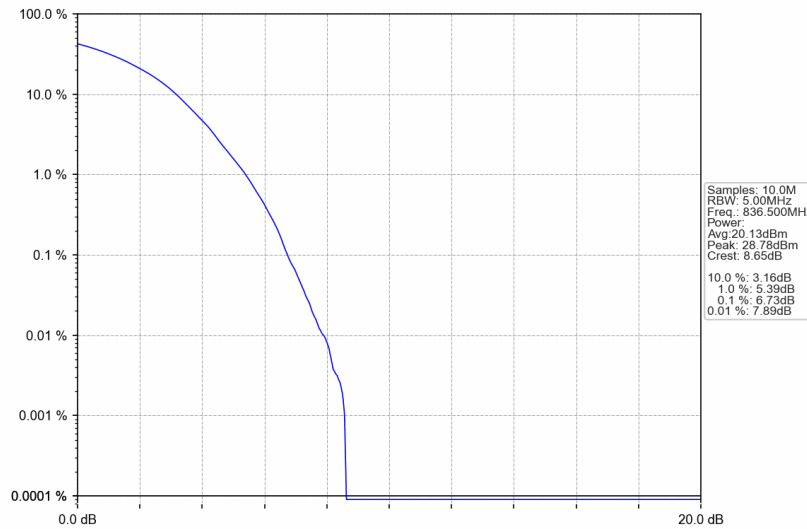
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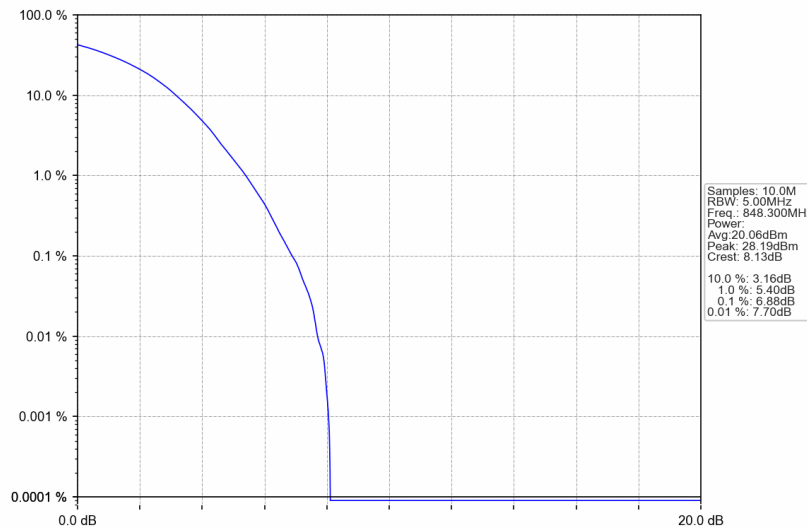
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t (86-512) 62992980 sgs.china@sgs.com

Band5_1.4MHz_256QAM_MCH_836.5MHz_RB_6_0_NTNV



Band5_1.4MHz_256QAM_HCH_848.3MHz_RB_6_0_NTNV



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4.2 B5_3MHz

4.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.50	<=13	Pass
	836.5	15	0	5.30	<=13	Pass
	847.5	15	0	5.06	<=13	Pass
16QAM	825.5	15	0	6.32	<=13	Pass
	836.5	15	0	6.15	<=13	Pass
	847.5	15	0	5.90	<=13	Pass
64QAM	825.5	15	0	6.62	<=13	Pass
	836.5	15	0	6.52	<=13	Pass
	847.5	15	0	6.47	<=13	Pass
256QAM	825.5	15	0	6.87	<=13	Pass
	836.5	15	0	6.83	<=13	Pass
	847.5	15	0	6.92	<=13	Pass



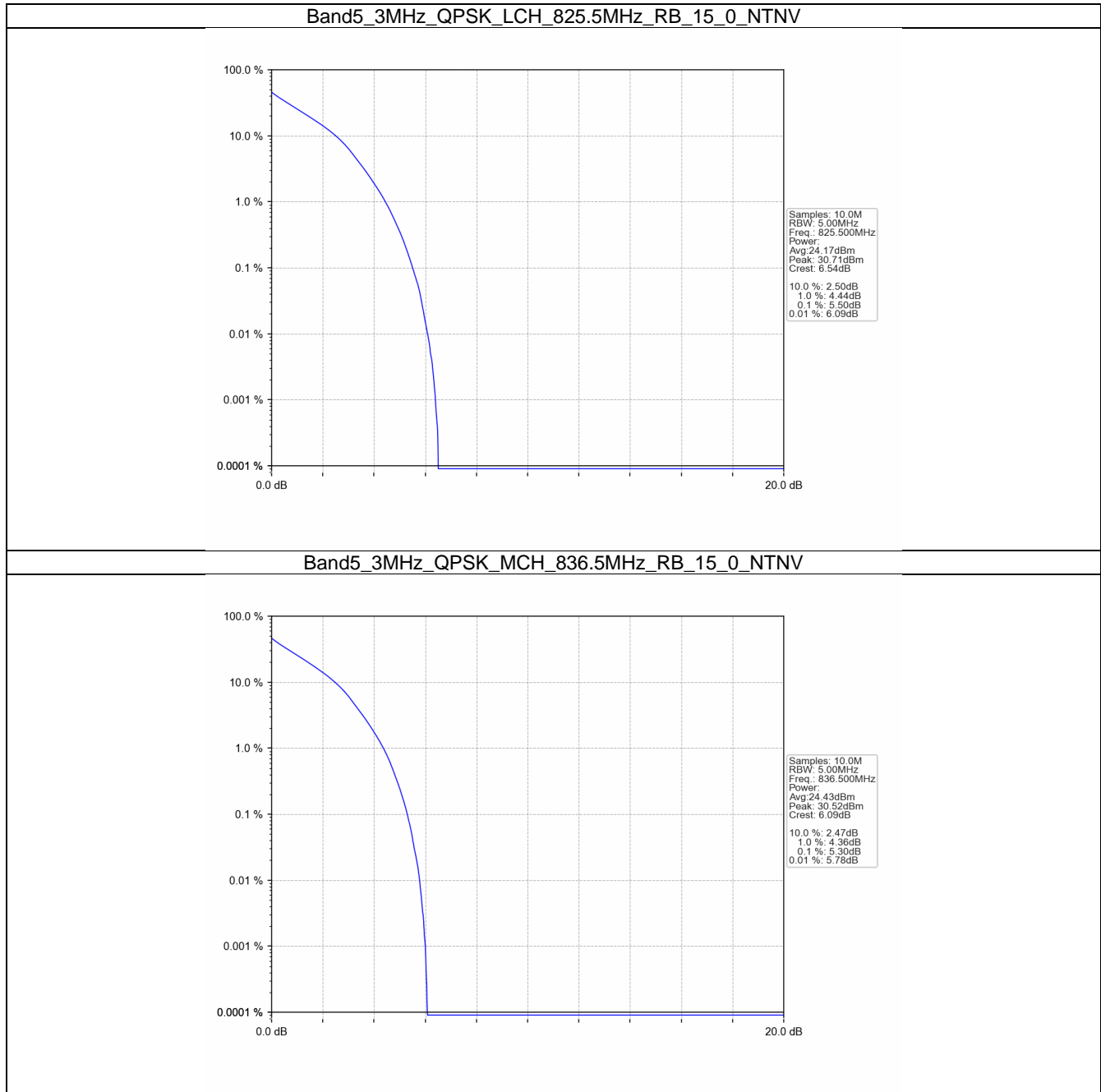
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4.2.2 Test Graph

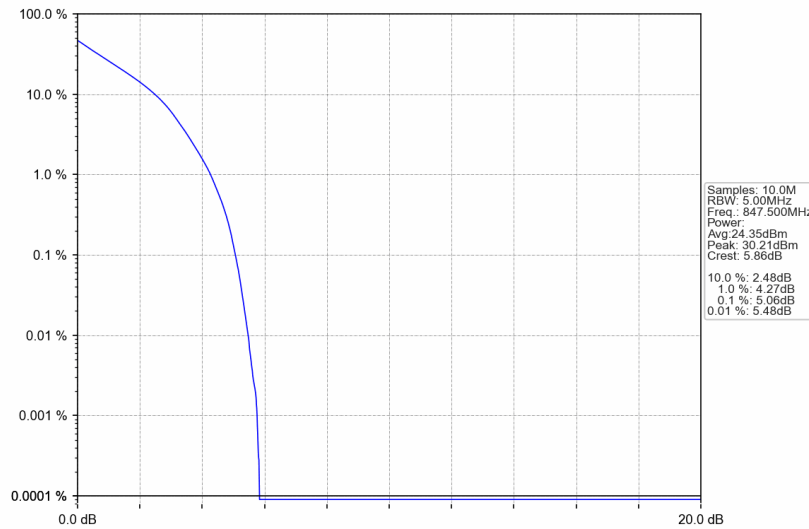


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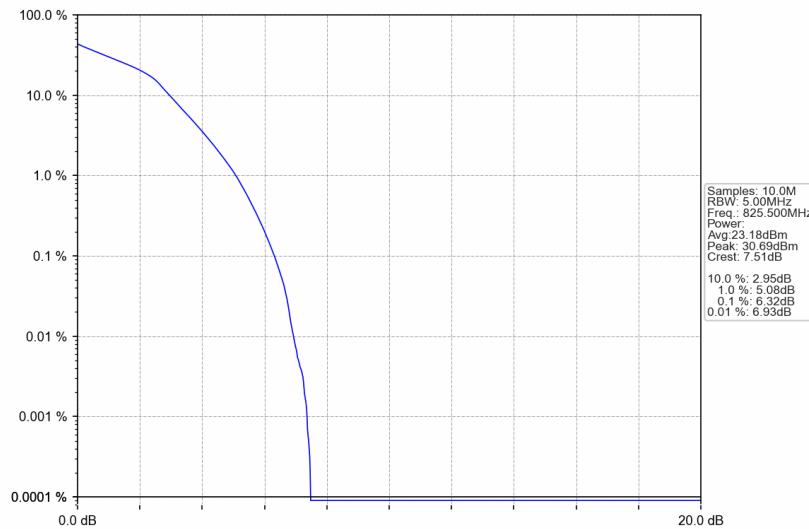
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



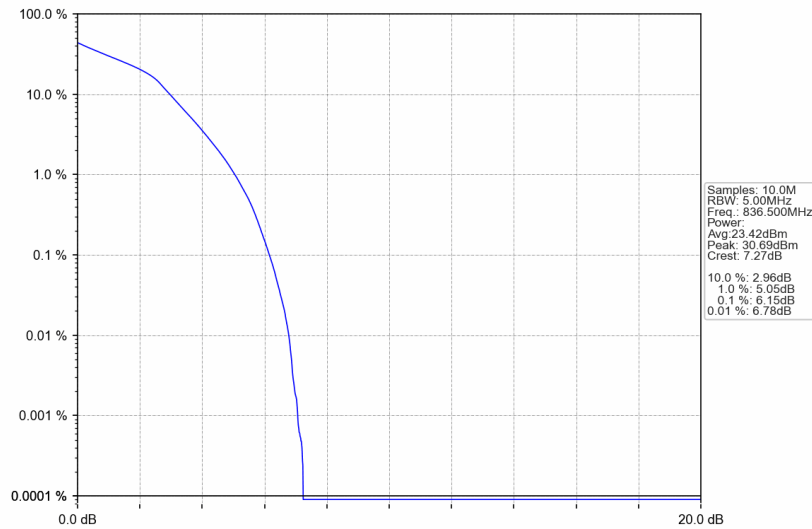
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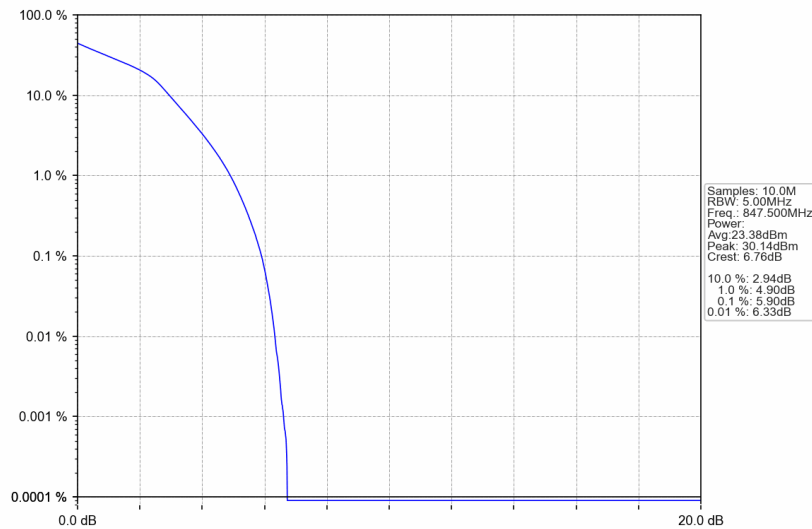
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Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

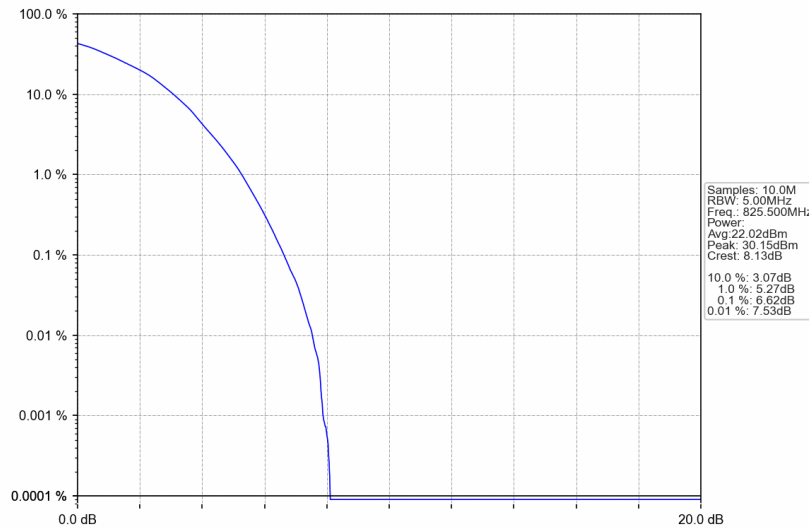


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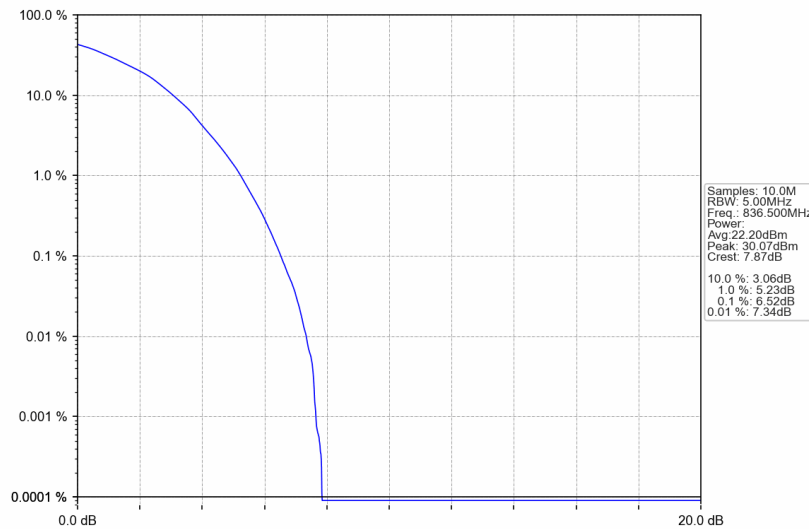
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV



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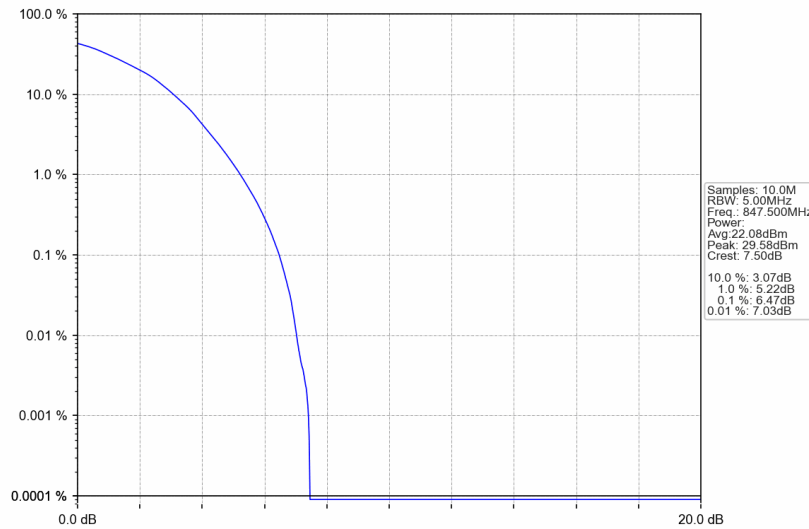
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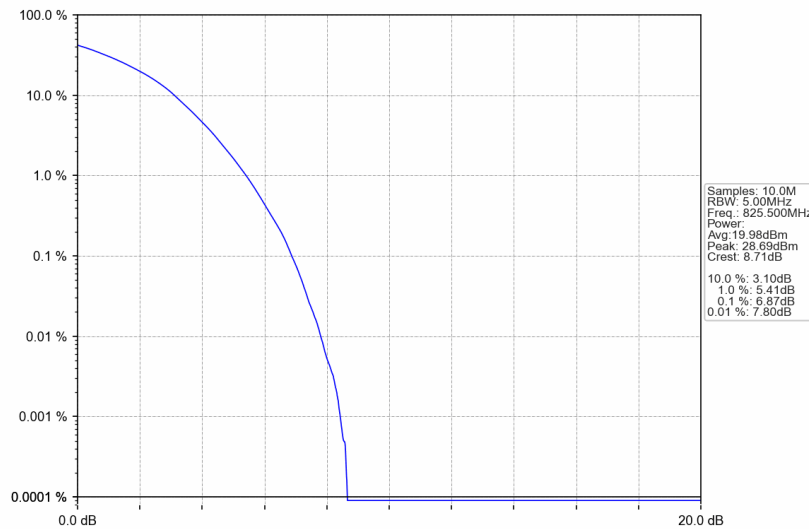
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Band5_3MHz_256QAM_LCH_825.5MHz_RB_15_0_NTNV



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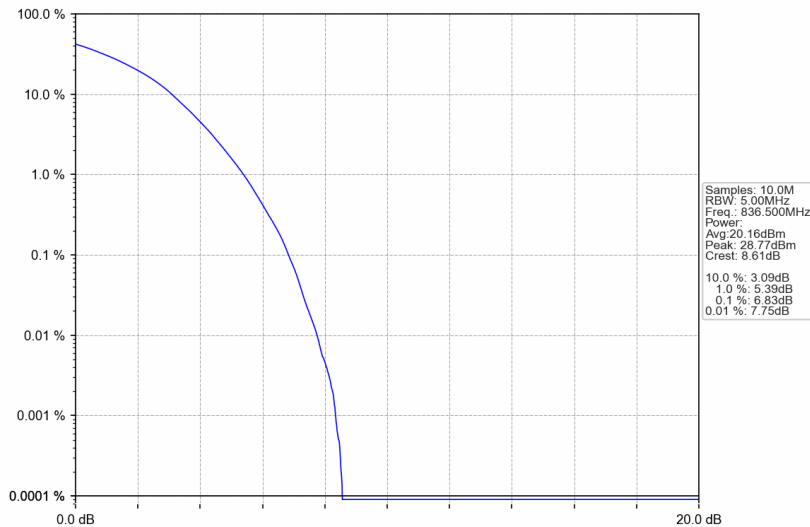
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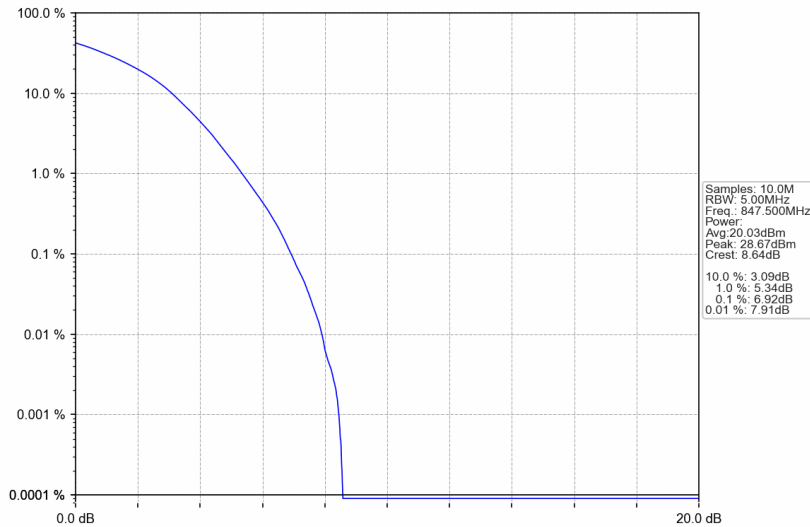
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4.3 B5_5MHz

4.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.57	<=13	Pass
	836.5	25	0	5.44	<=13	Pass
	846.5	25	0	5.28	<=13	Pass
16QAM	826.5	25	0	6.27	<=13	Pass
	836.5	25	0	6.18	<=13	Pass
	846.5	25	0	6.05	<=13	Pass
64QAM	826.5	25	0	6.63	<=13	Pass
	836.5	25	0	6.63	<=13	Pass
	846.5	25	0	6.53	<=13	Pass
256QAM	826.5	25	0	6.79	<=13	Pass
	836.5	25	0	6.89	<=13	Pass
	846.5	25	0	6.83	<=13	Pass

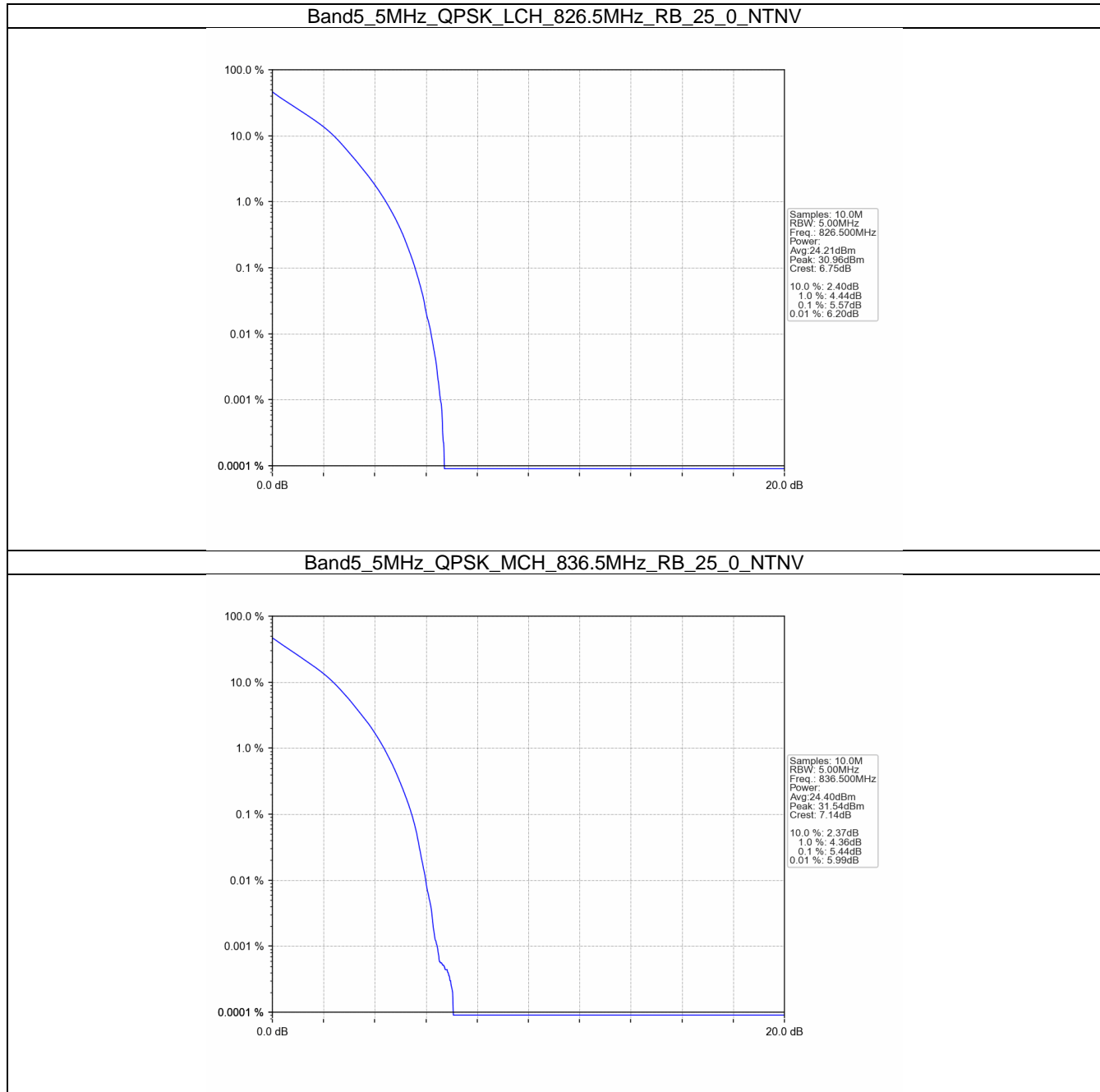


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4.3.2 Test Graph

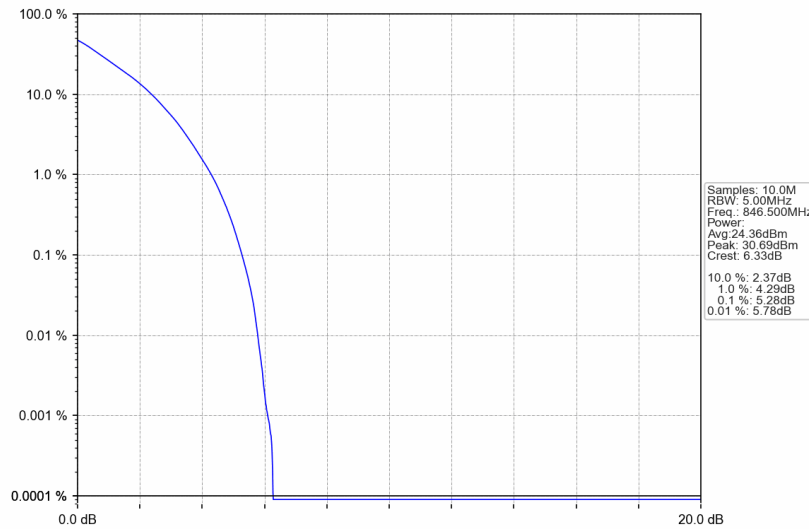


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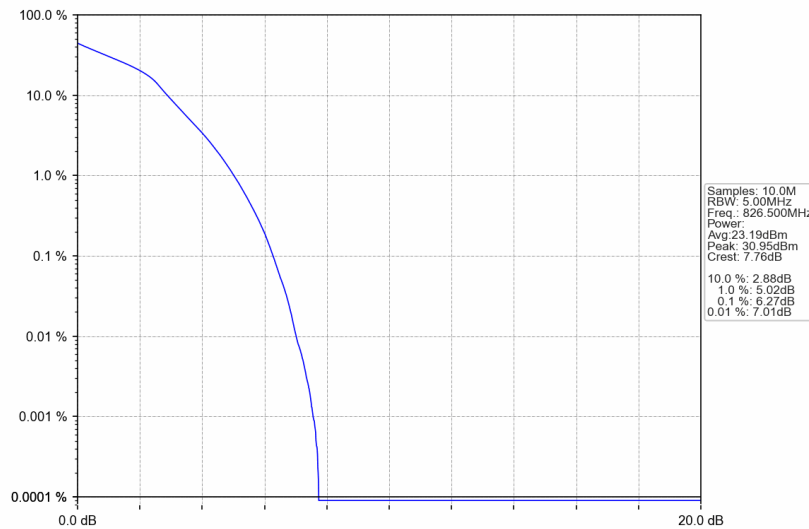
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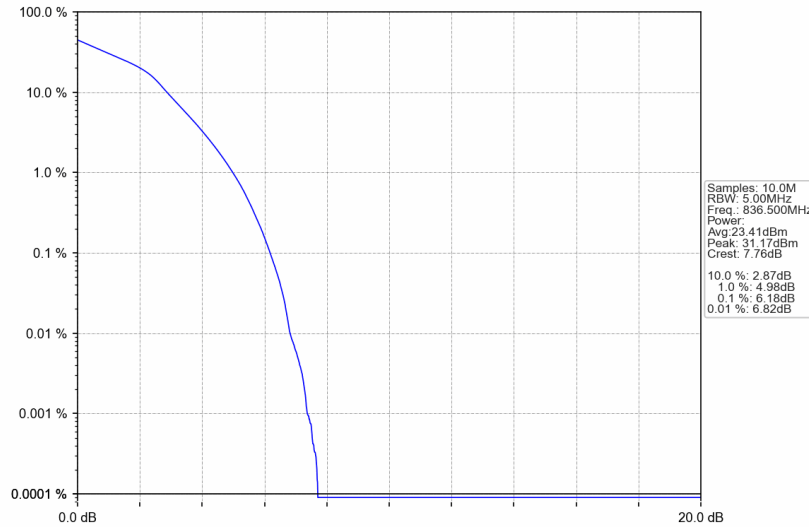
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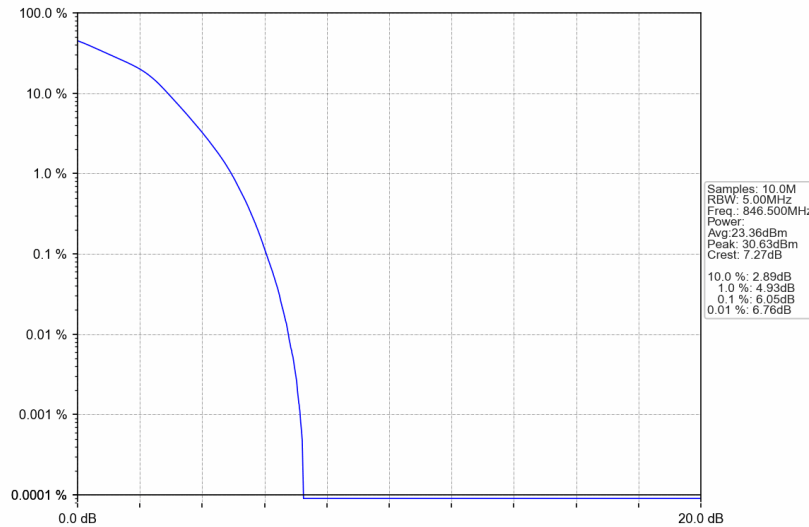
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



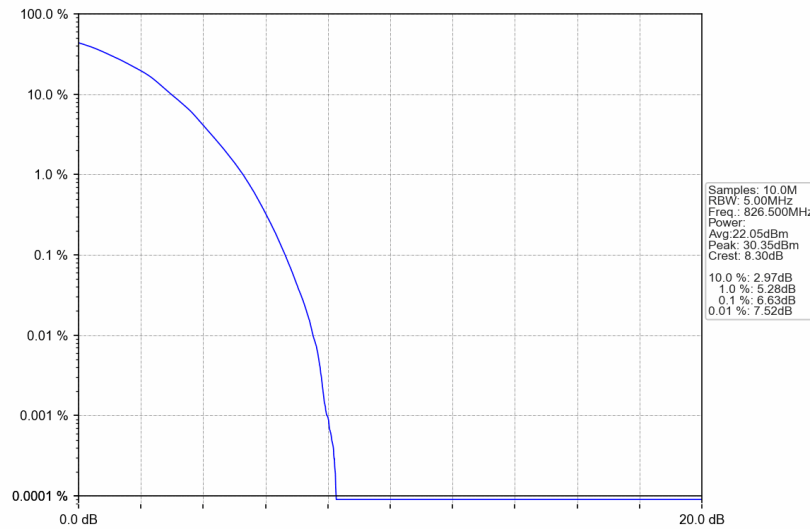
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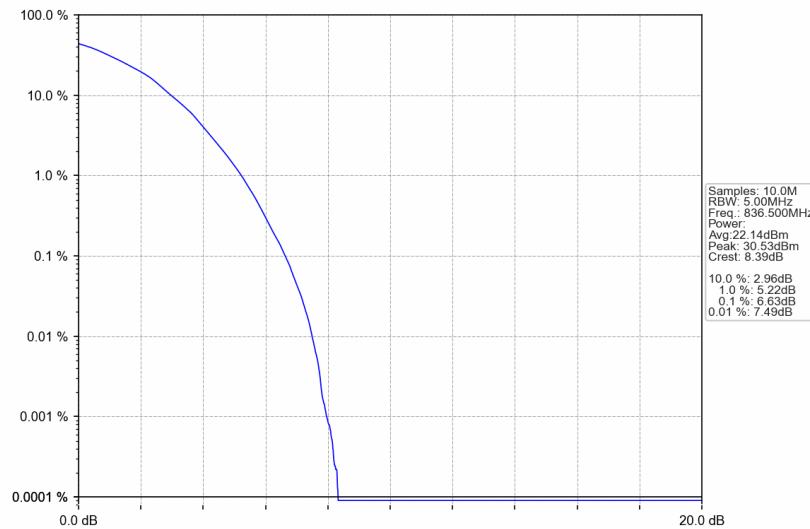
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV

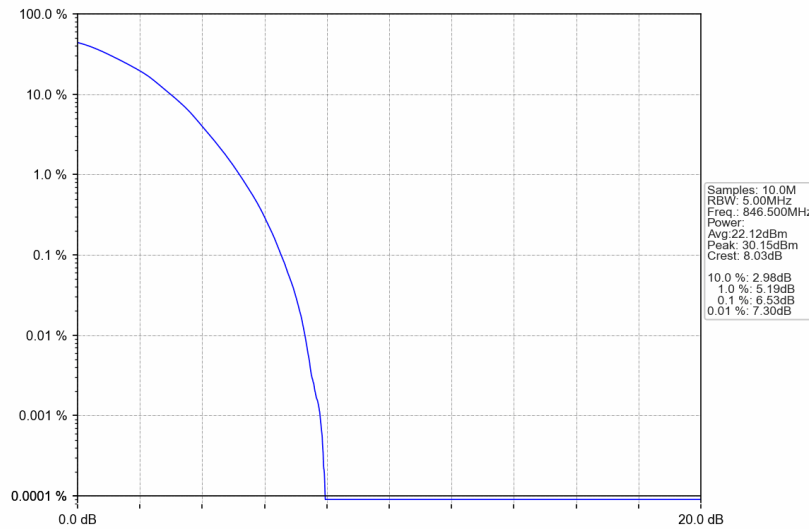


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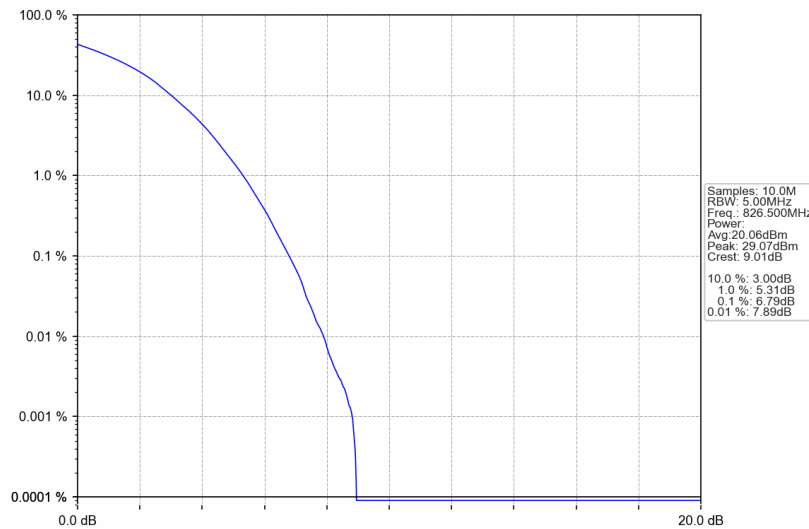
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_256QAM_LCH_826.5MHz_RB_25_0_NTNV



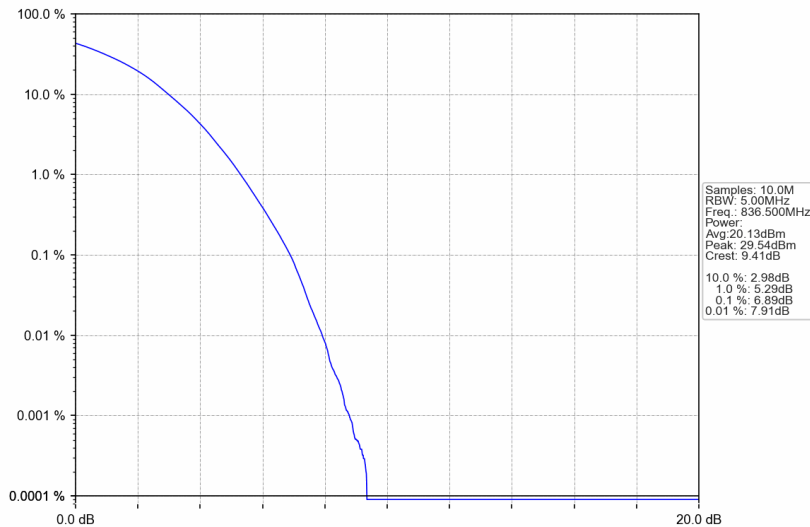
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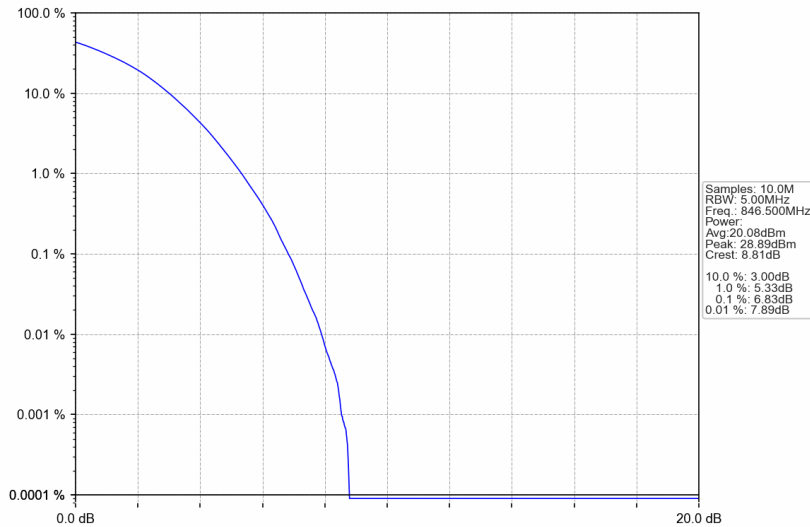
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Band5_5MHz_256QAM_MCH_836.5MHz_RB_25_0_NTNV



Band5_5MHz_256QAM_HCH_846.5MHz_RB_25_0_NTNV



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4.4 B5_10MHz

4.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.33	<=13	Pass
	836.5	50	0	5.25	<=13	Pass
	844	50	0	5.24	<=13	Pass
16QAM	829	50	0	6.18	<=13	Pass
	836.5	50	0	6.16	<=13	Pass
	844	50	0	6.16	<=13	Pass
64QAM	829	50	0	6.57	<=13	Pass
	836.5	50	0	6.56	<=13	Pass
	844	50	0	6.54	<=13	Pass
256QAM	829	50	0	6.78	<=13	Pass
	836.5	50	0	6.73	<=13	Pass
	844	50	0	6.85	<=13	Pass

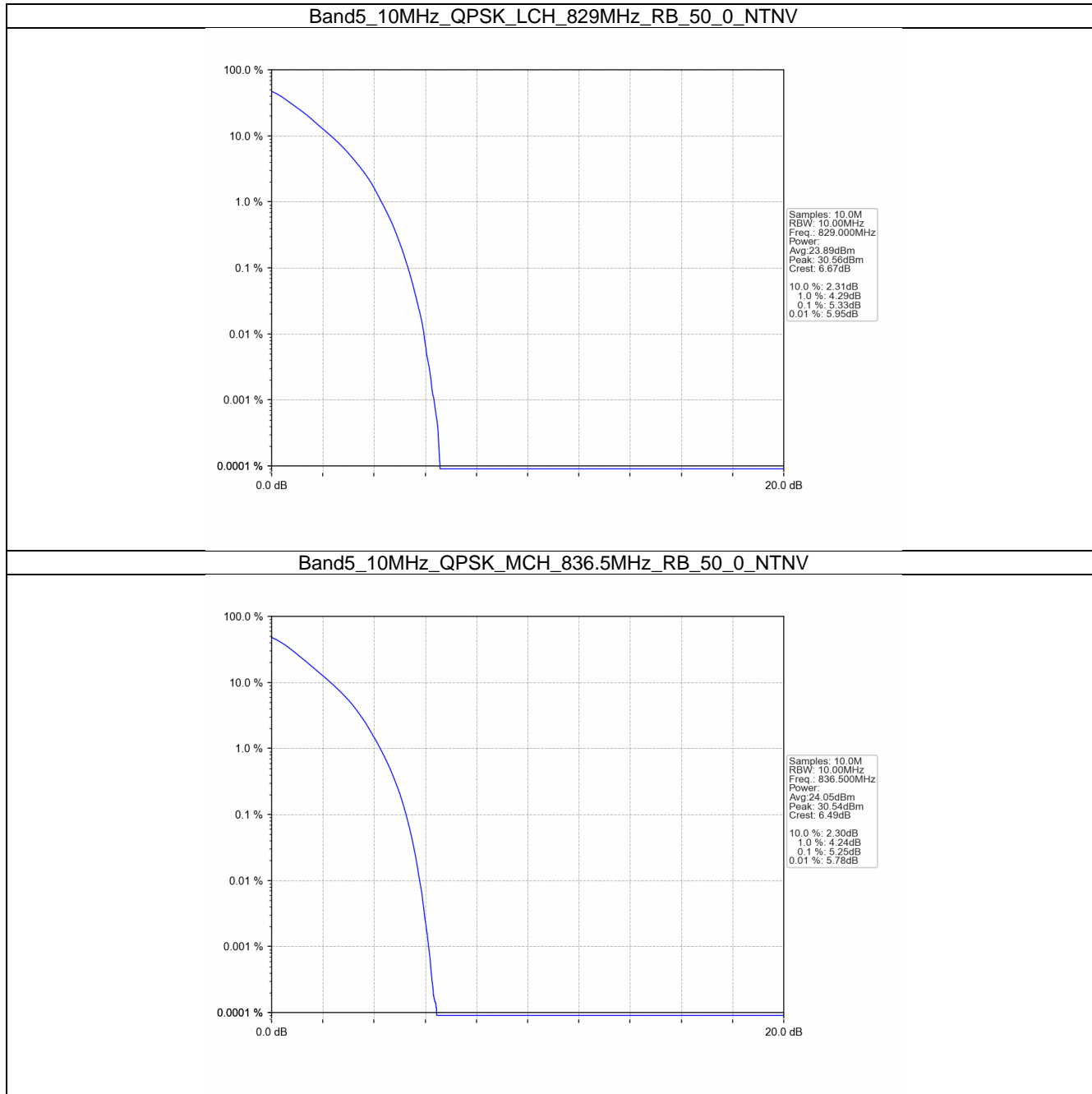


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4.4.2 Test Graph

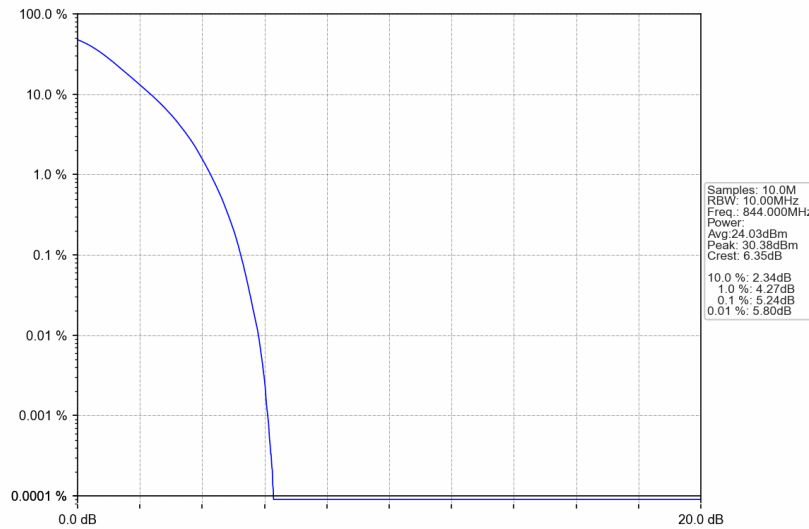


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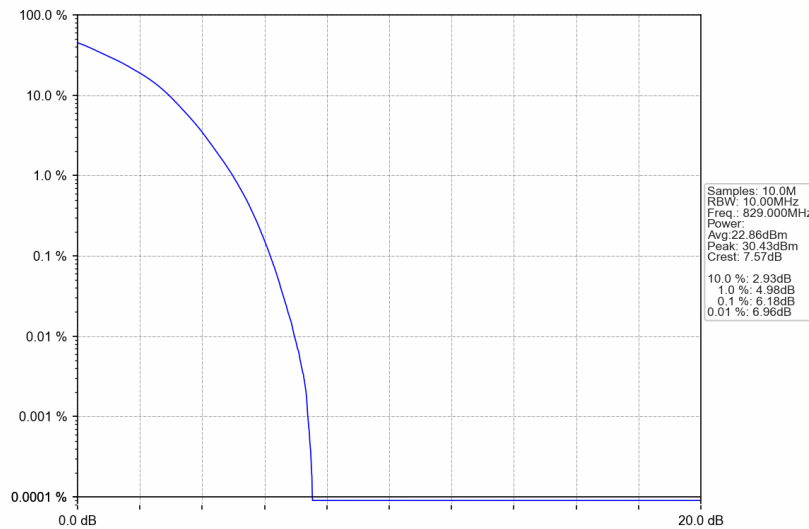
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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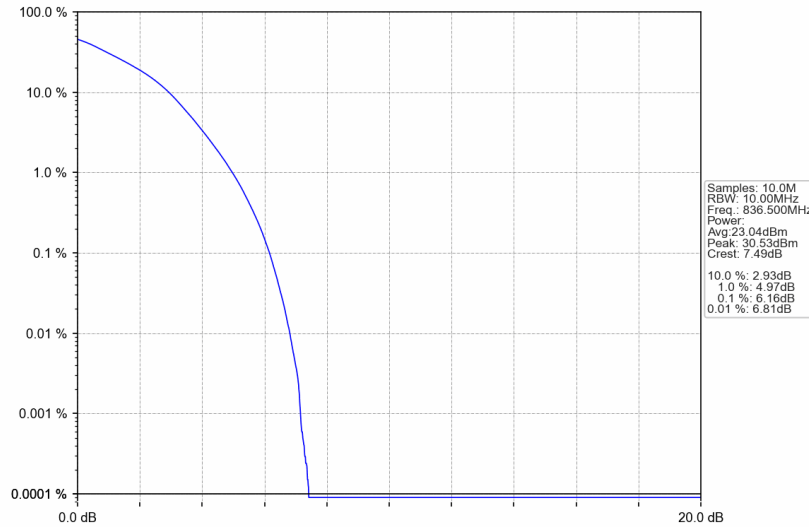
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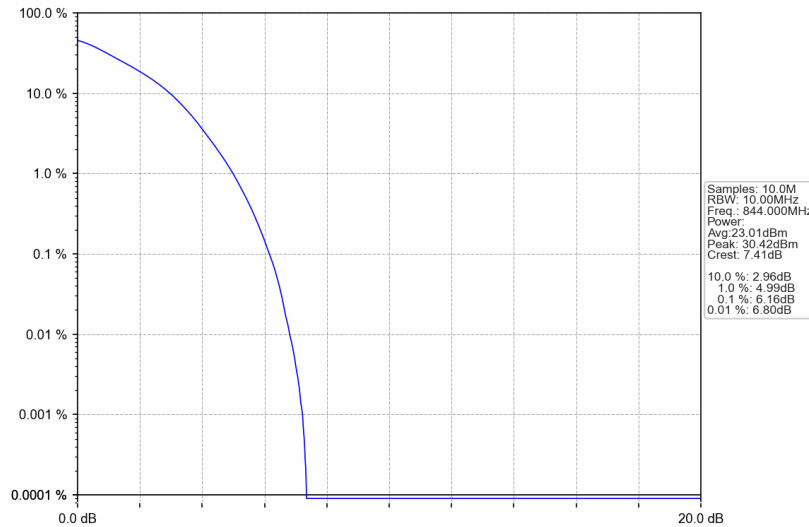
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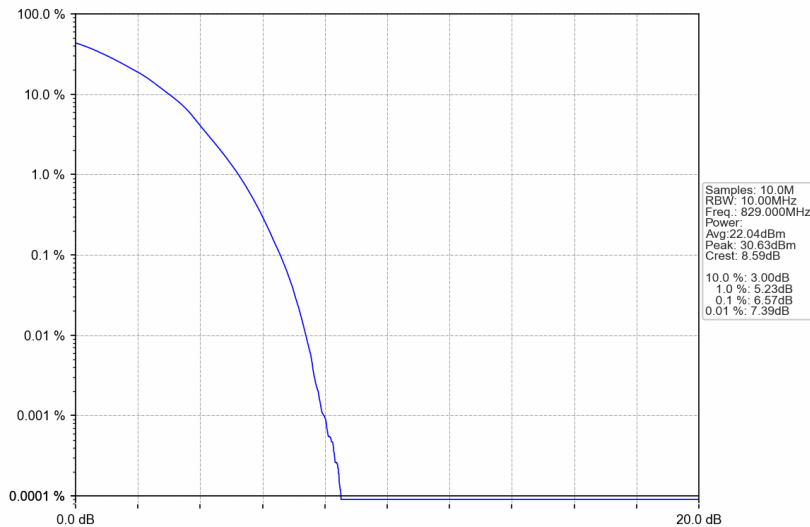
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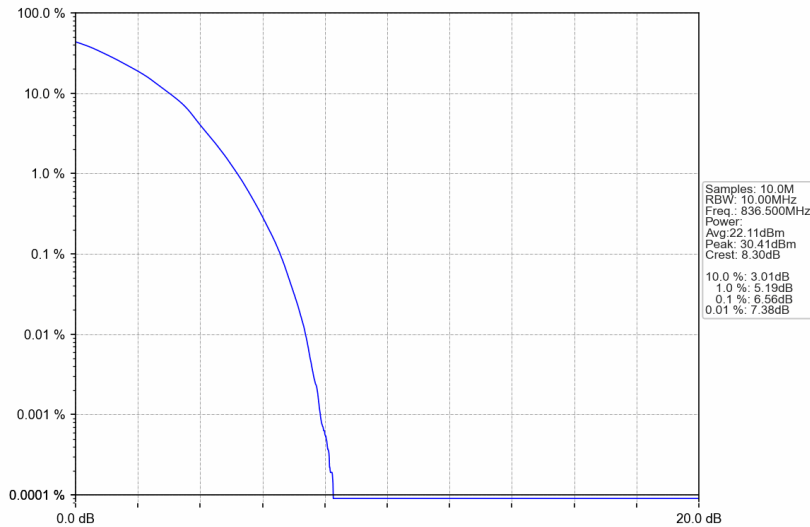
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_MCH_836.5MHz_RB_50_0_NTNV

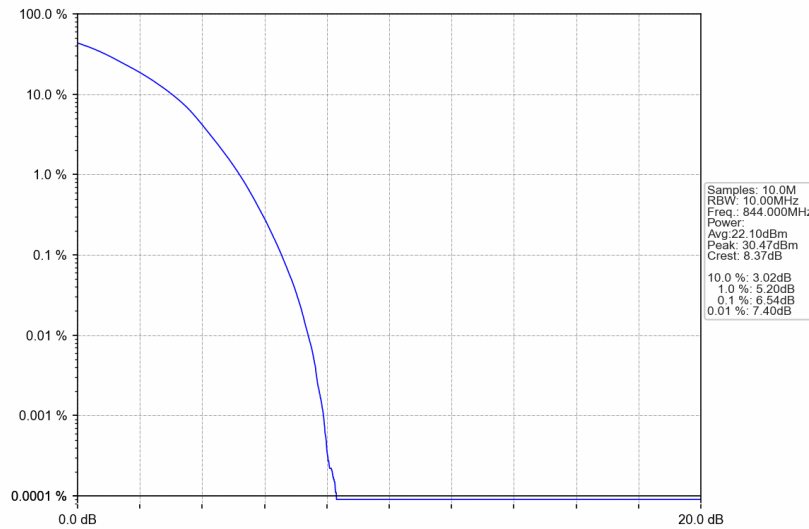


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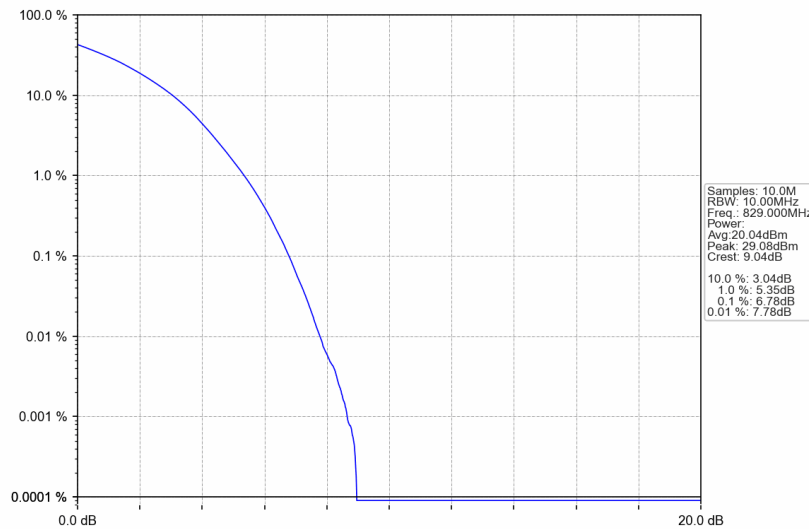
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Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV



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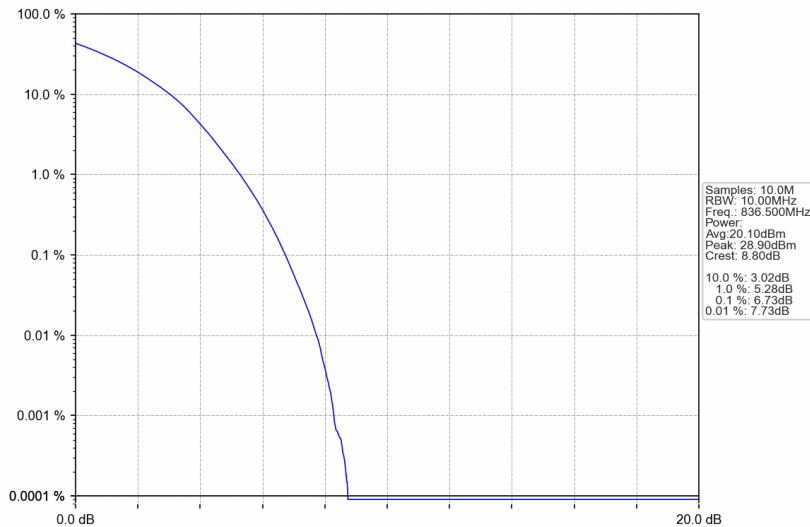


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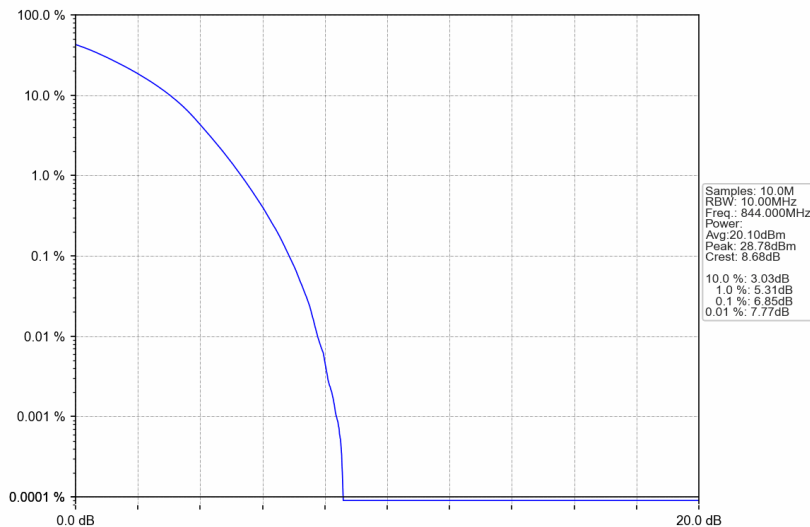
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5. Spurious Emission & Band Edges

5.1 B5_1.4MHz

5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	848.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
16QAM	824.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	848.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
64QAM	824.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	848.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
256QAM	824.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	848.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	

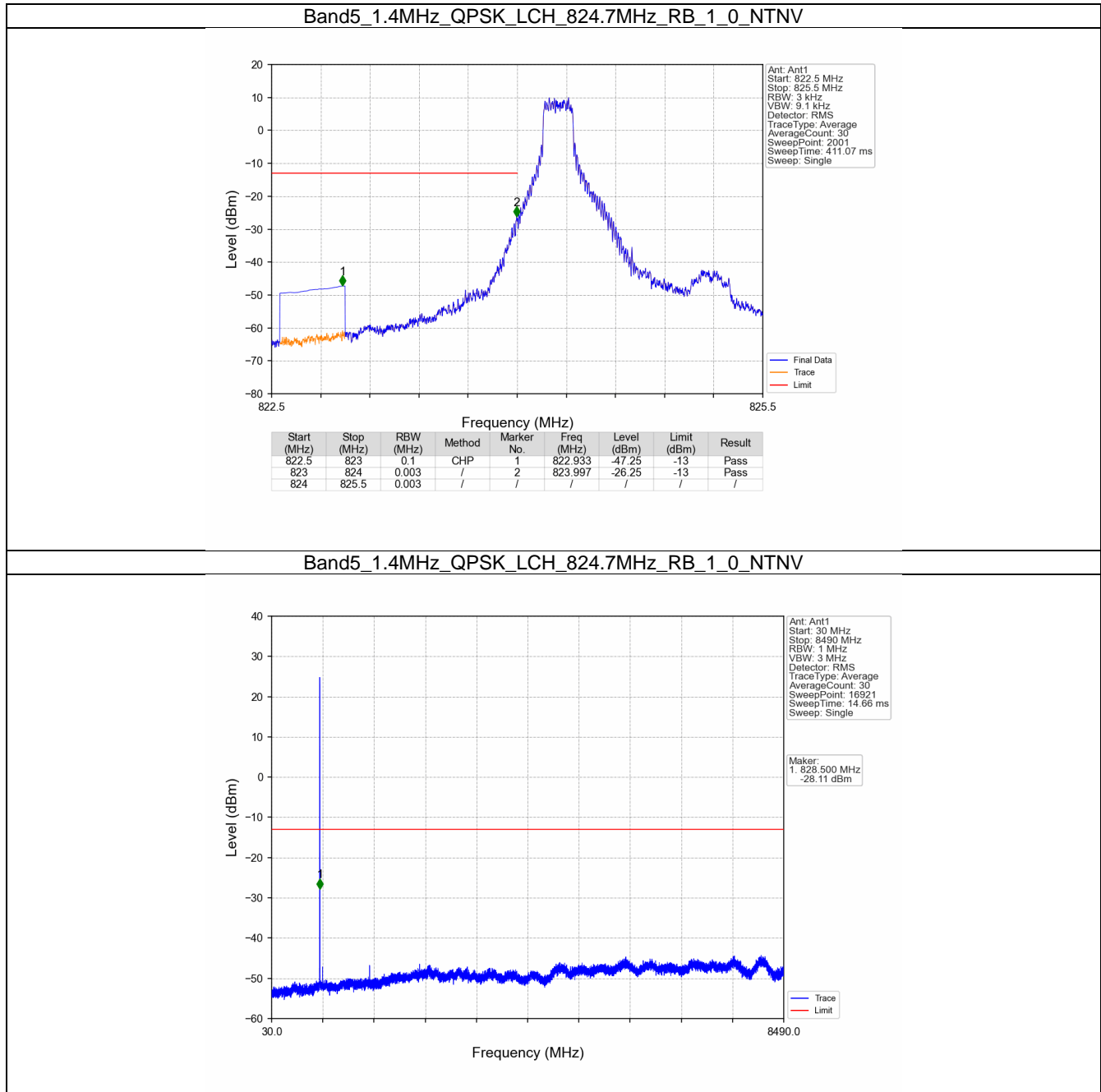


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5.1.2 Test Graph

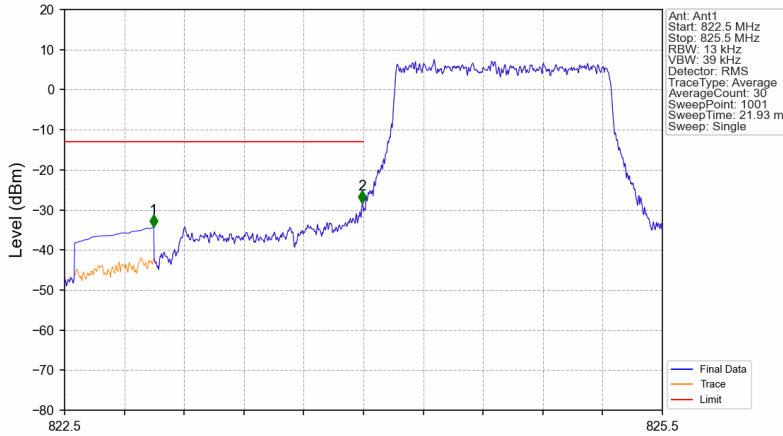


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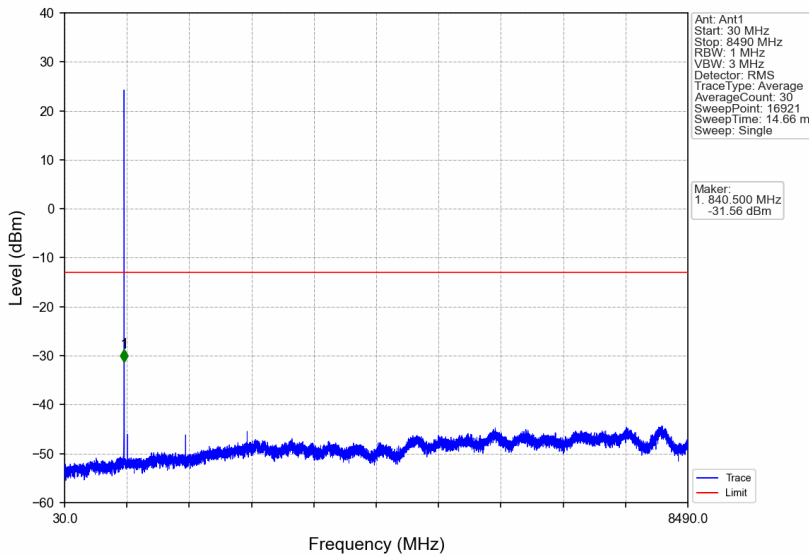
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-34.30	-13	Pass
823	824	0.013	/	2	823.994	-28.40	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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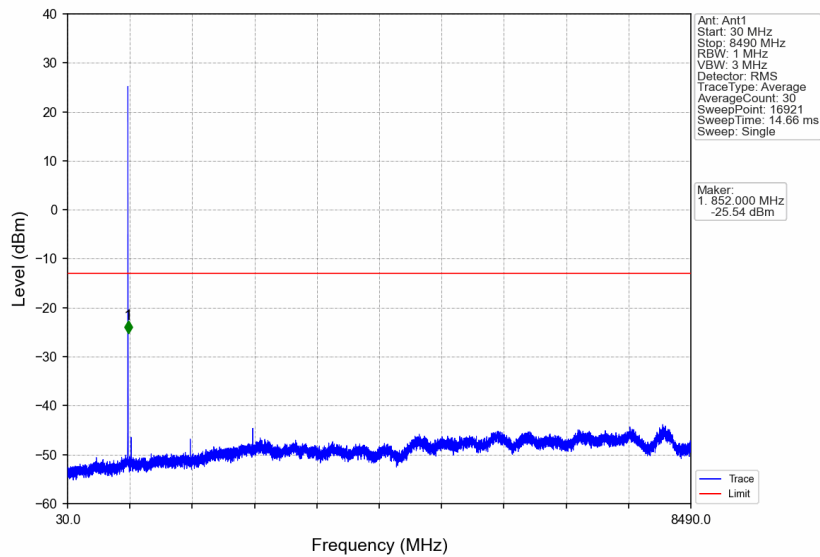
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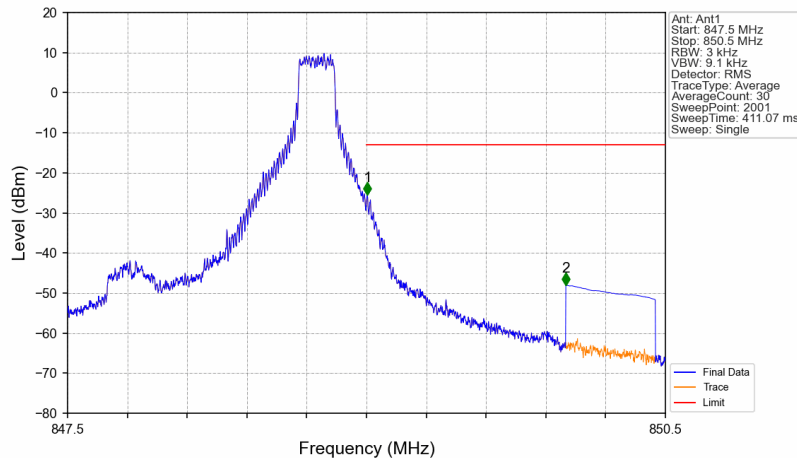
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
849	850	0.003	/	1	849.005	-25.52	-13	Pass
850	850.5	0.1	CHP	2	850.000	-48.07	-13	Pass



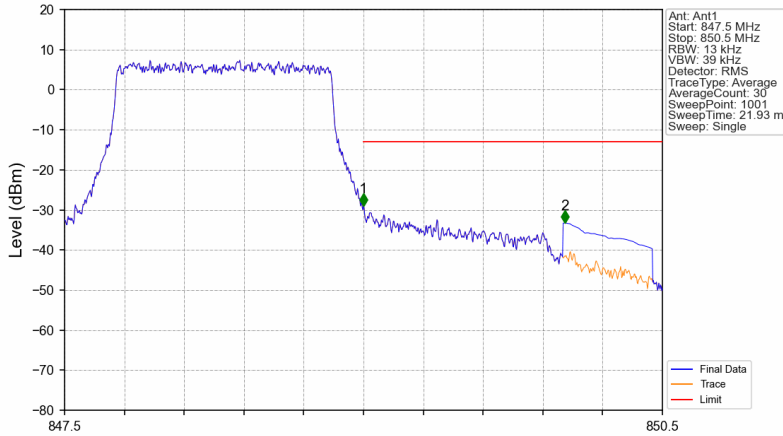
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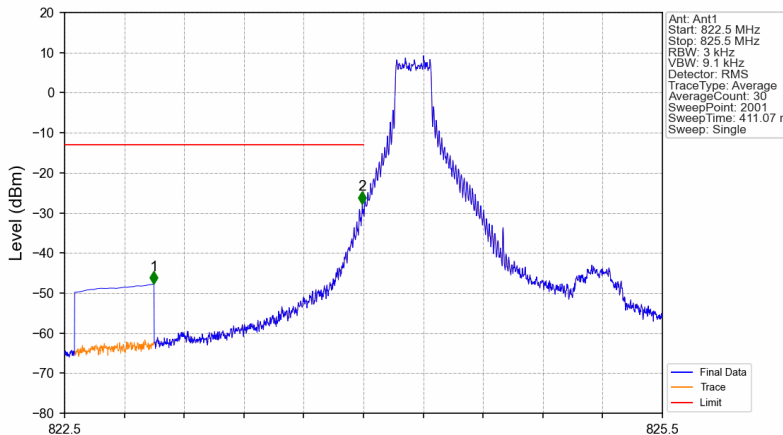
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.000	-29.07	-13	Pass
850	850.5	0.1	CHP	2	850.011	-33.24	-13	Pass

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.948	-47.80	-13	Pass
823	824	0.003	/	2	823.994	-27.73	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

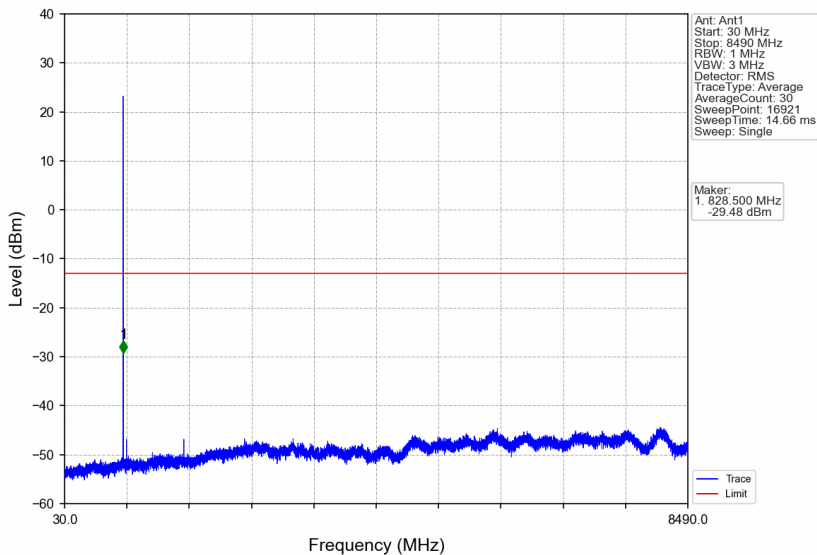


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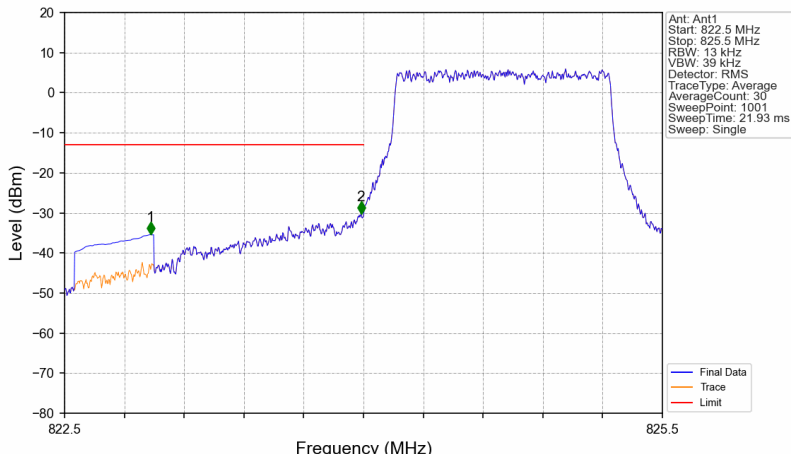
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.932	-35.43	-13	Pass
823	824	0.013	/	2	823.988	-30.25	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

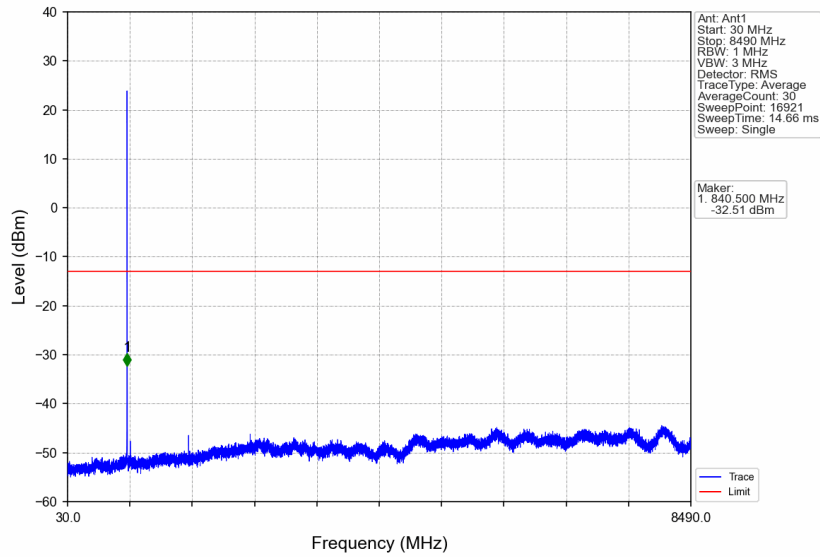


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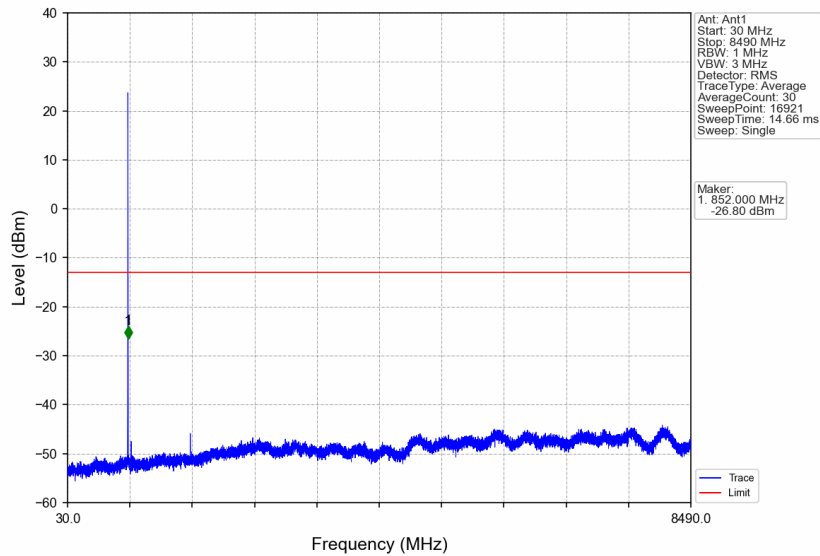
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

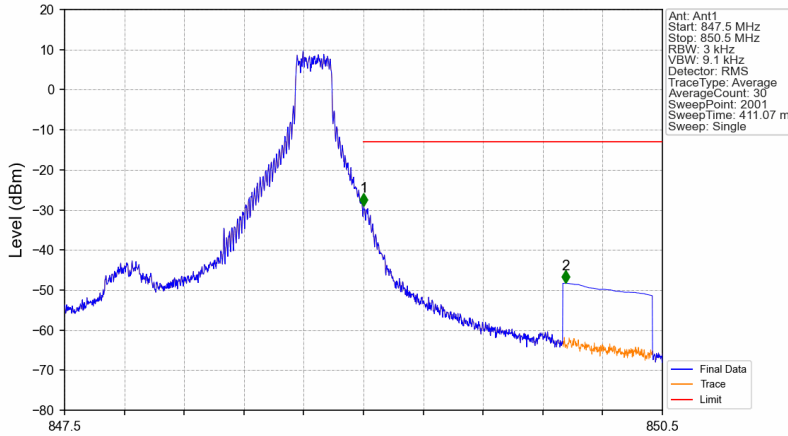


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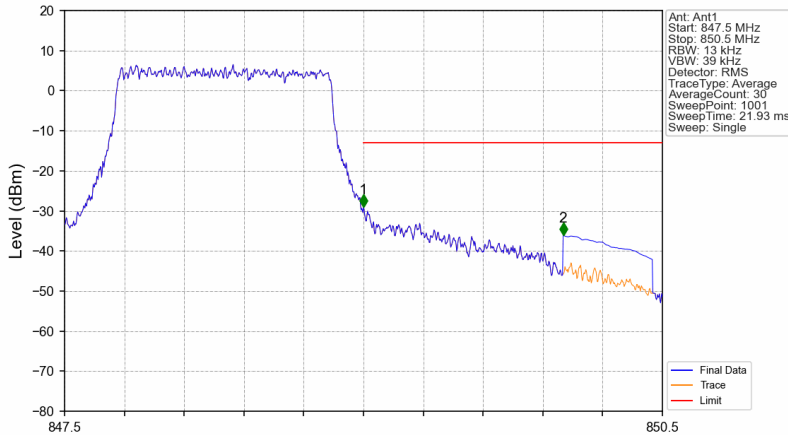
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-28.94	-13	Pass
850	850.5	0.1	CHP	2	850.014	-48.28	-13	Pass

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.000	-28.97	-13	Pass
850	850.5	0.1	CHP	2	850.002	-36.07	-13	Pass

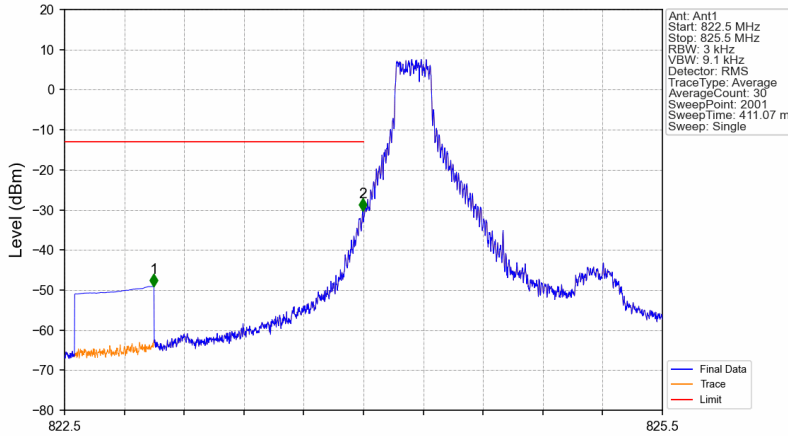


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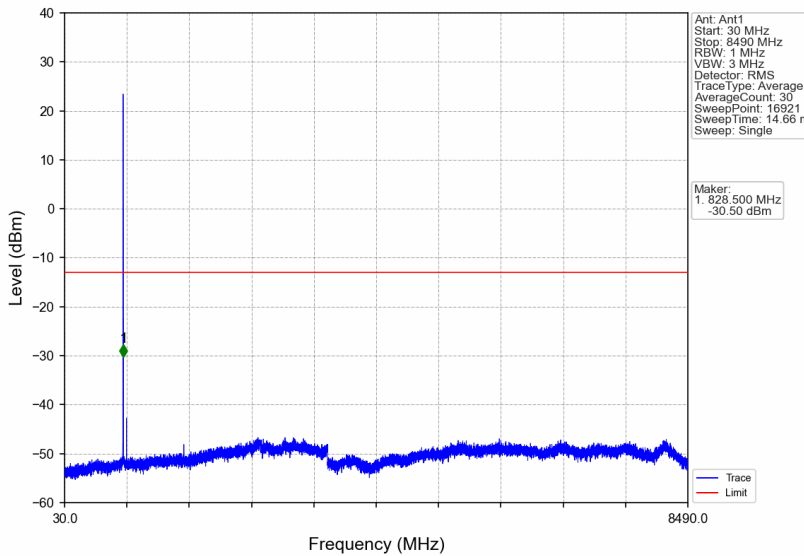
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.948	-49.11	-13	Pass
823	824	0.003	/	2	823.995	-30.34	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV

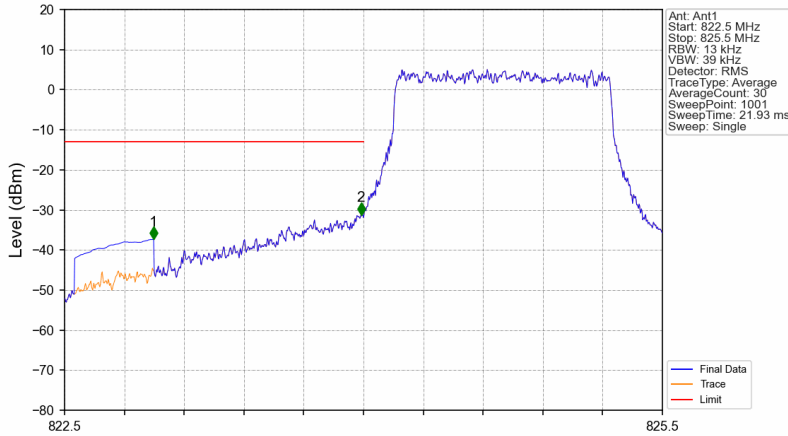


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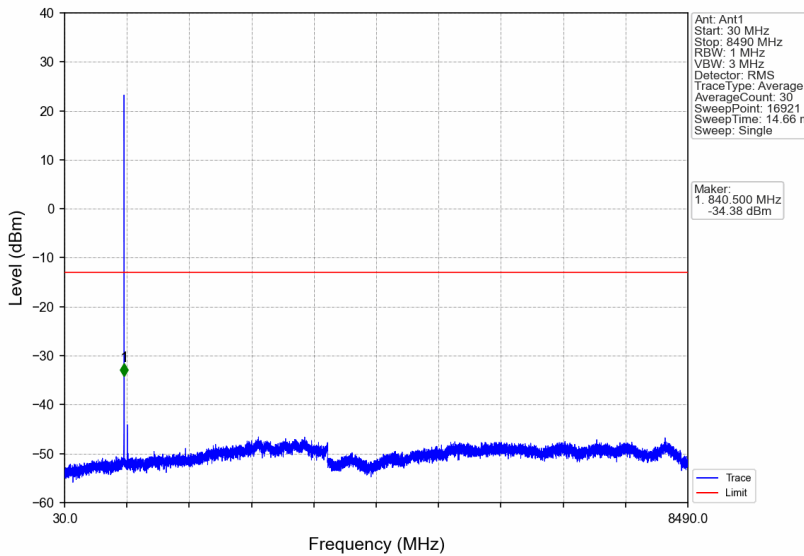
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-37.28	-13	Pass
823	824	0.013	/	2	823.988	-31.24	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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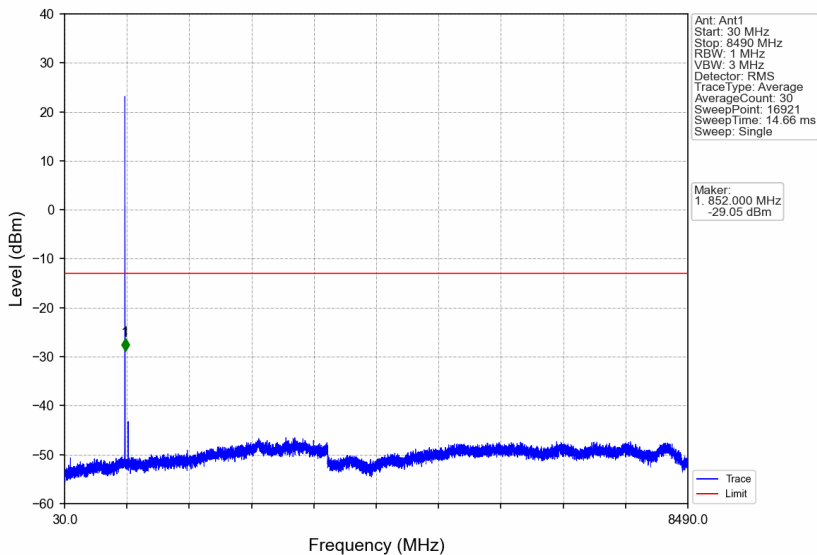
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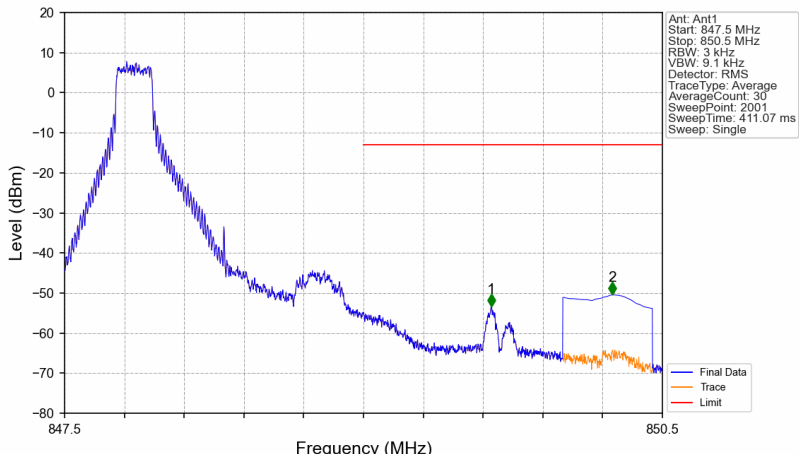
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_1_0_NTNV



Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
849	850	0.003	/	1	849.640	-53.38	-13	Pass
850	850.5	0.1	CHP	2	850.248	-50.44	-13	Pass

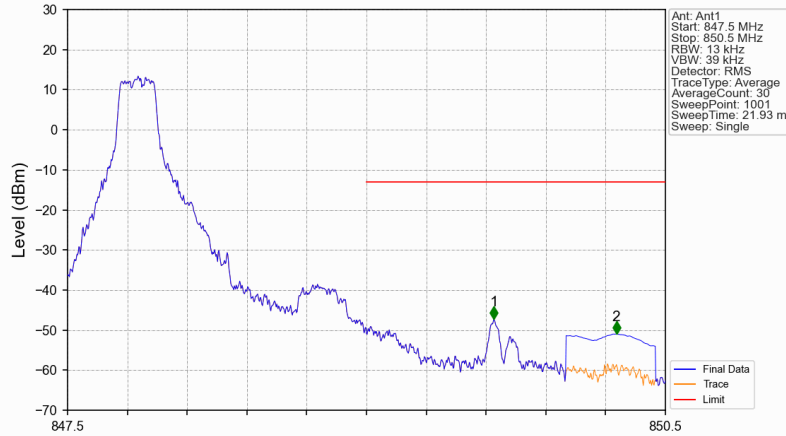


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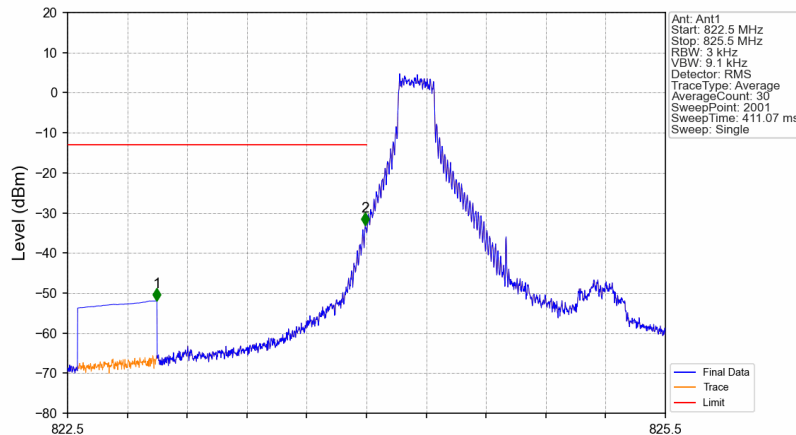
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.639	-47.32	-13	Pass
850	850.5	0.1	CHP	2	850.254	-50.97	-13	Pass

Band5_1.4MHz_256QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.948	-51.93	-13	Pass
823	824	0.003	/	2	823.994	-33.07	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



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