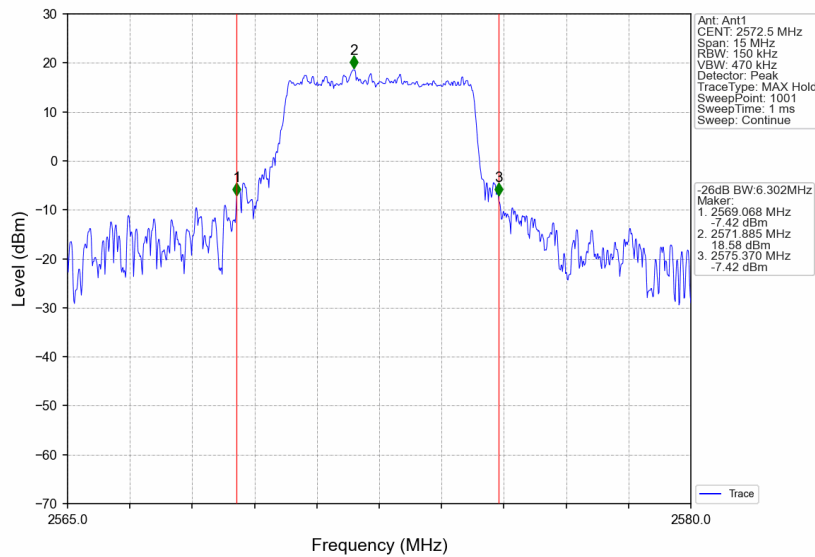
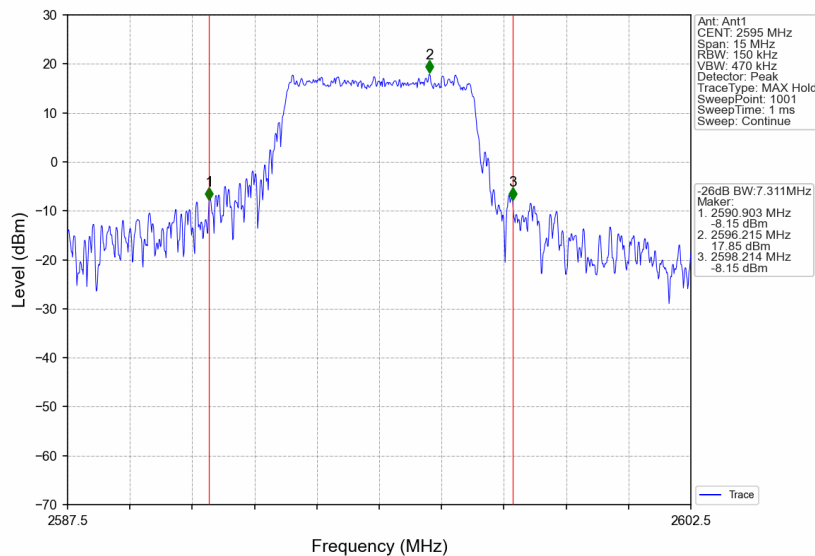


Band38\_5MHz\_64QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_64QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV

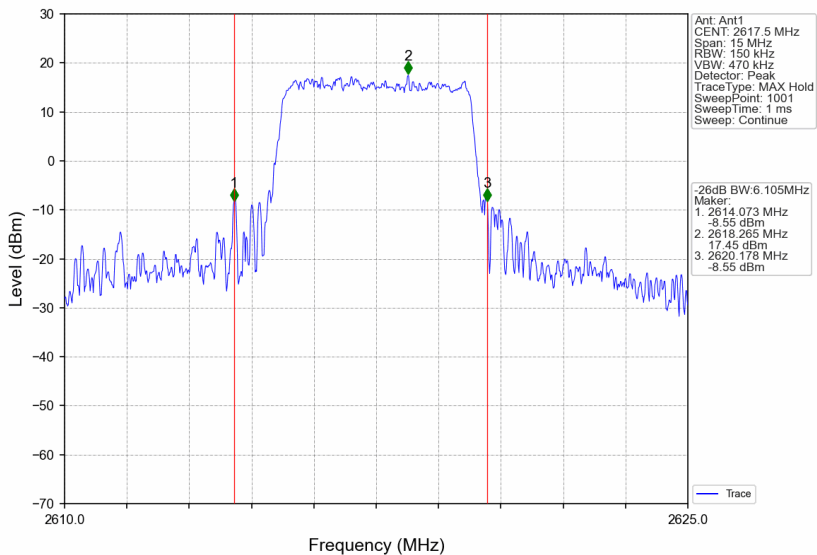


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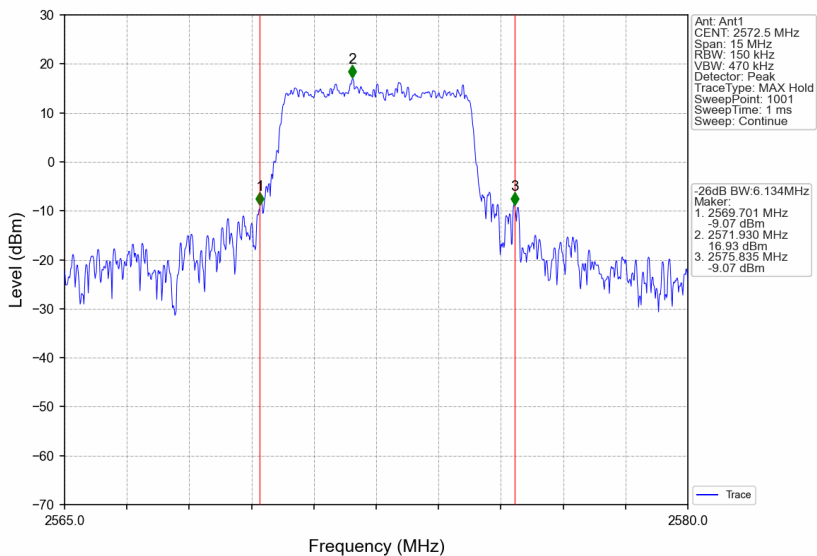
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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_256QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV

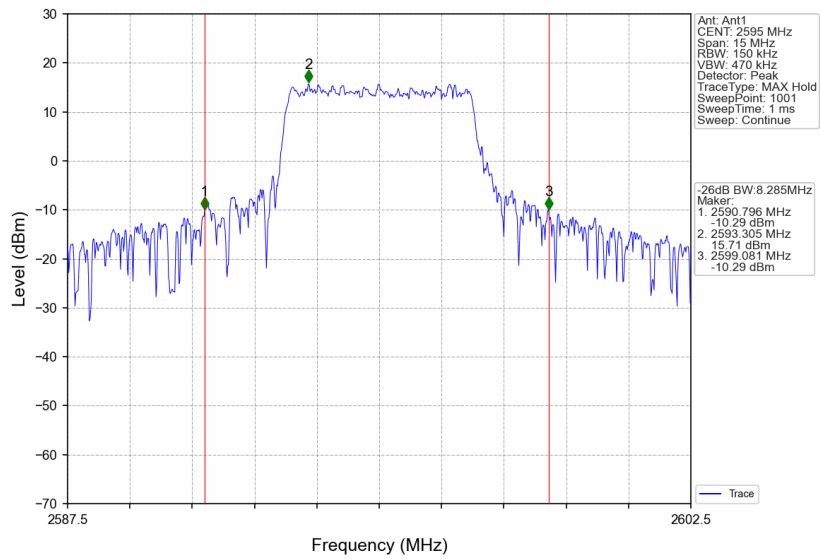


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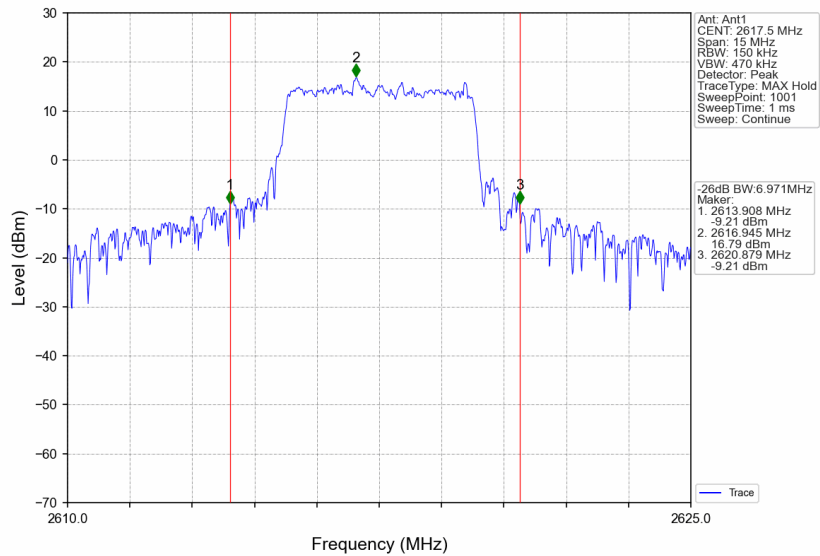
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Band38\_5MHz\_256QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



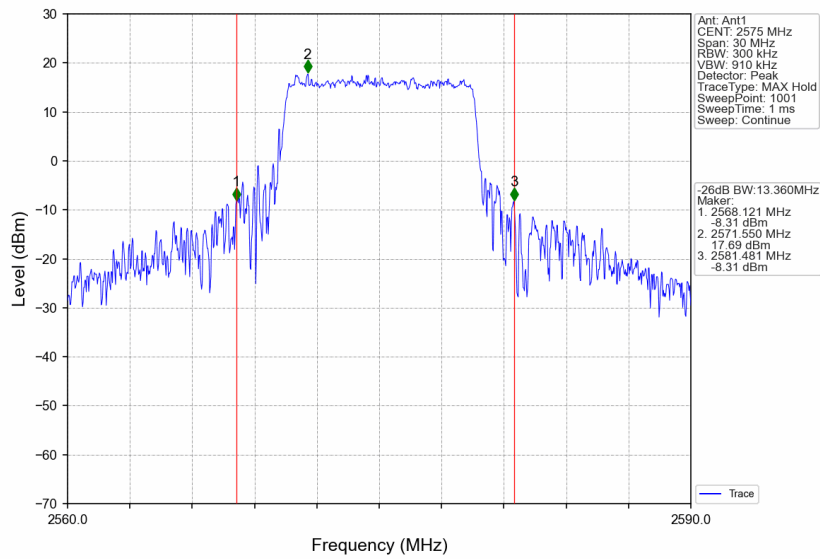
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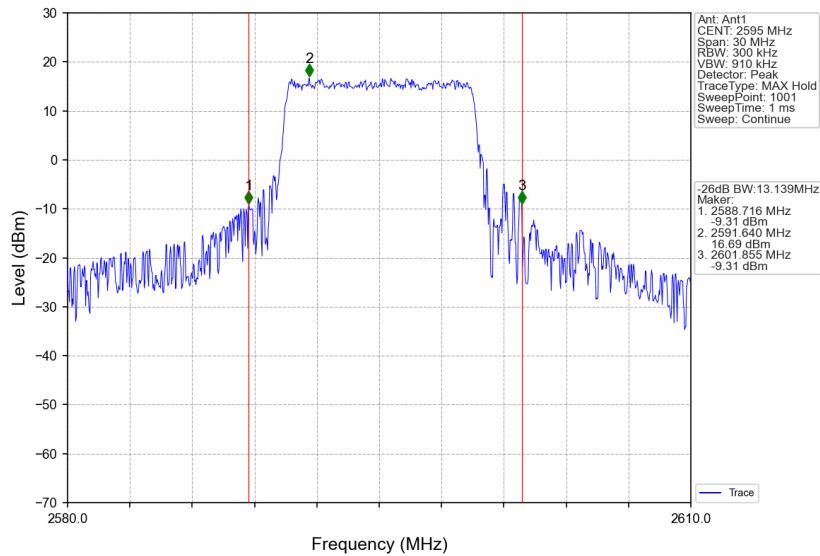
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Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV

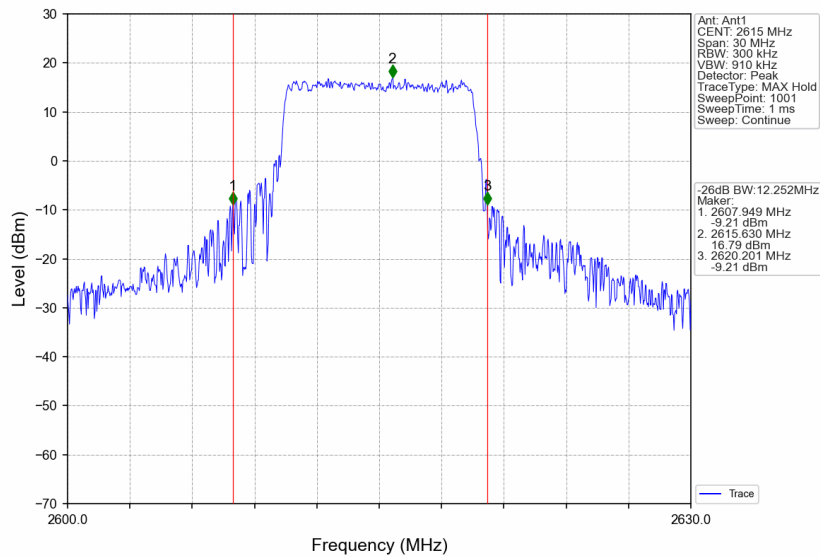


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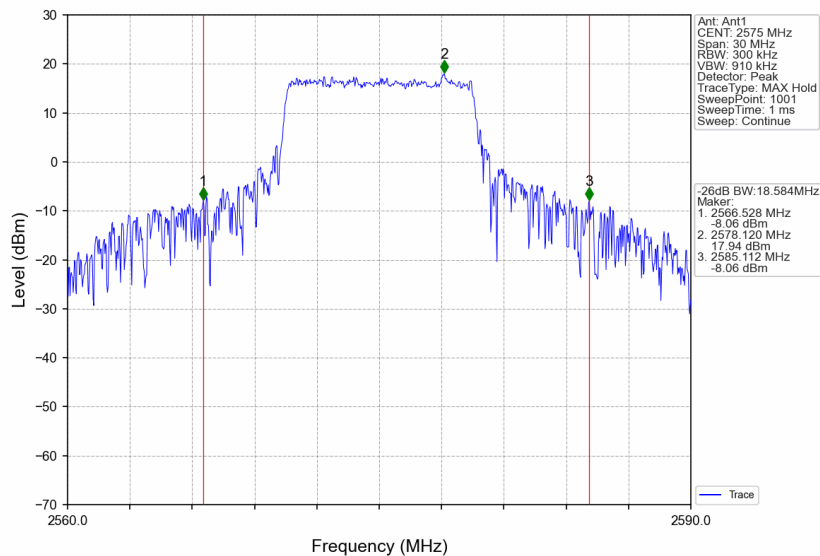
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



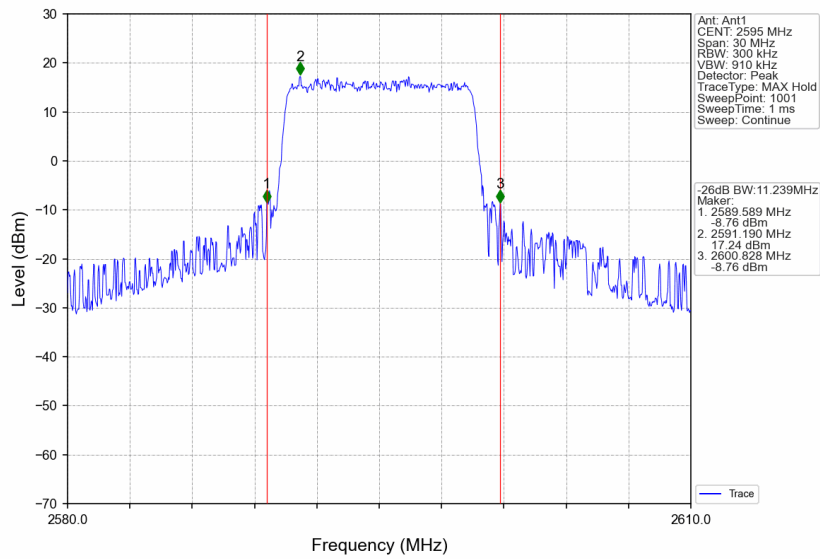
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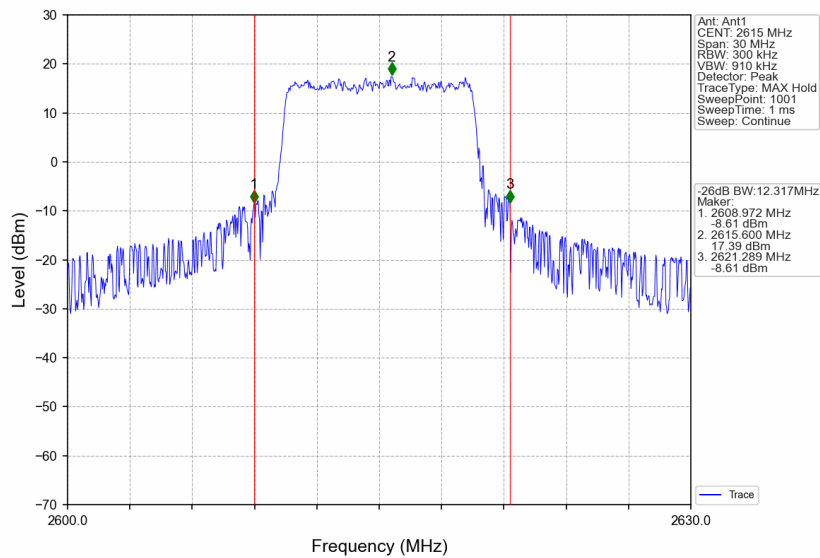
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



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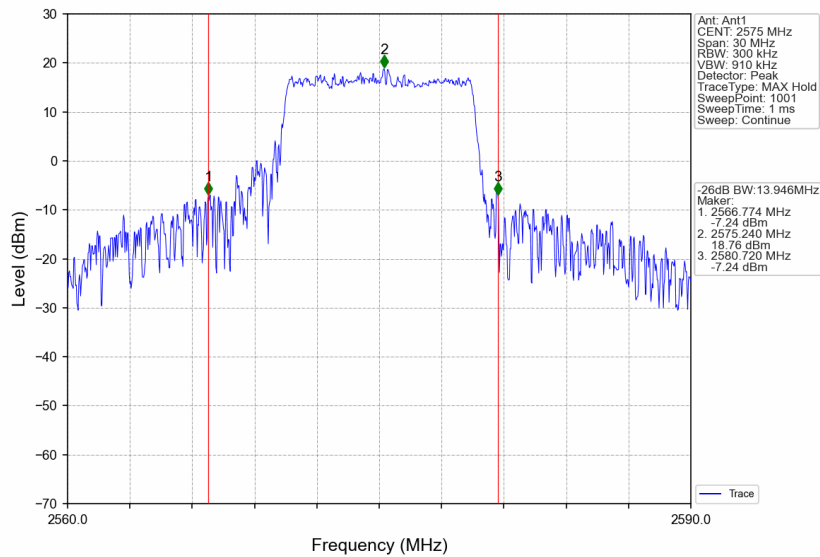
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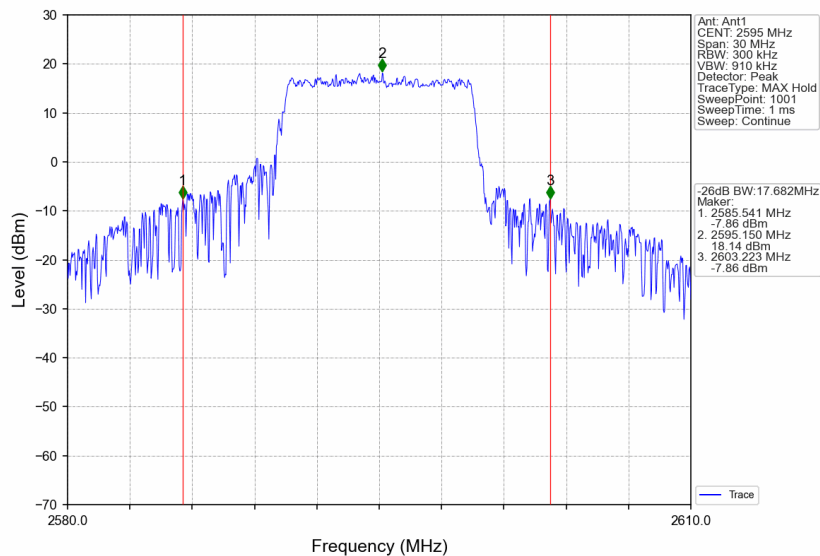
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Band38\_10MHz\_64QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_64QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



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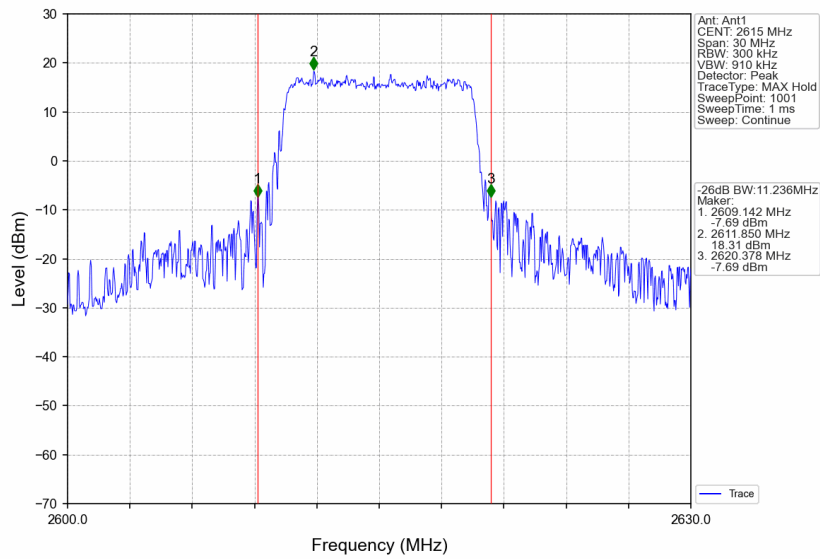
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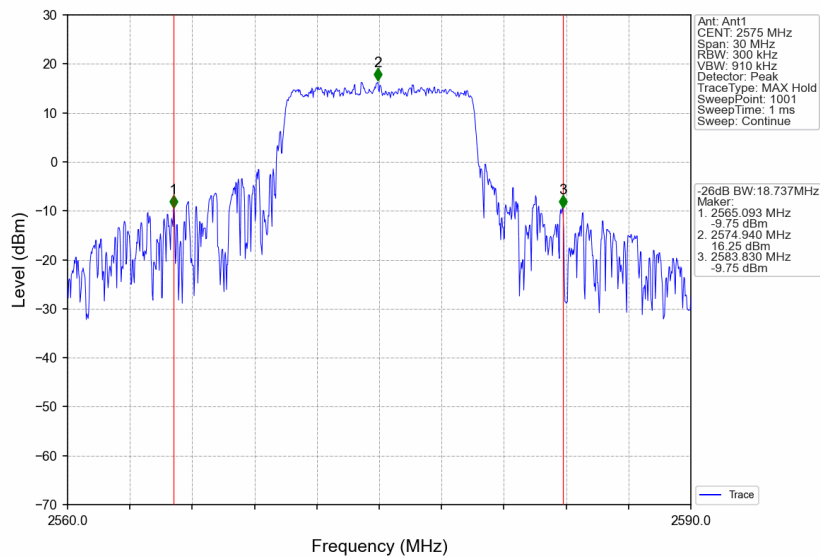
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Band38\_10MHz\_64QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_256QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



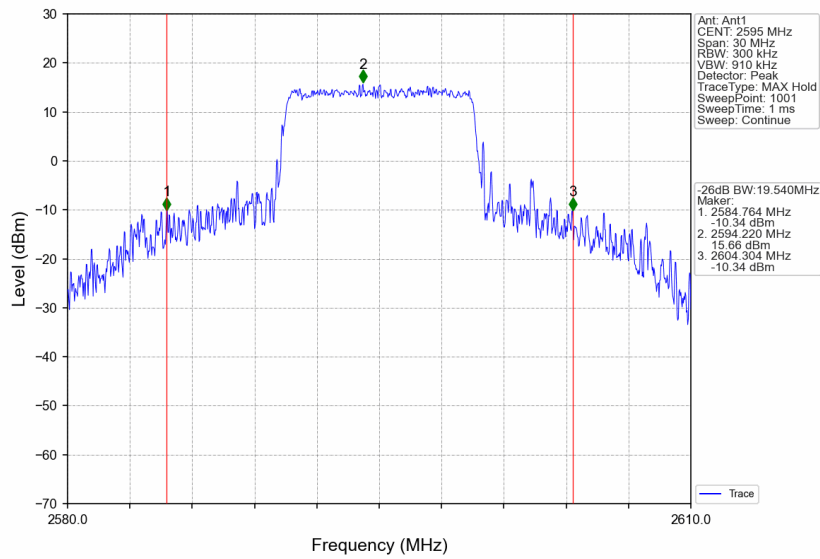
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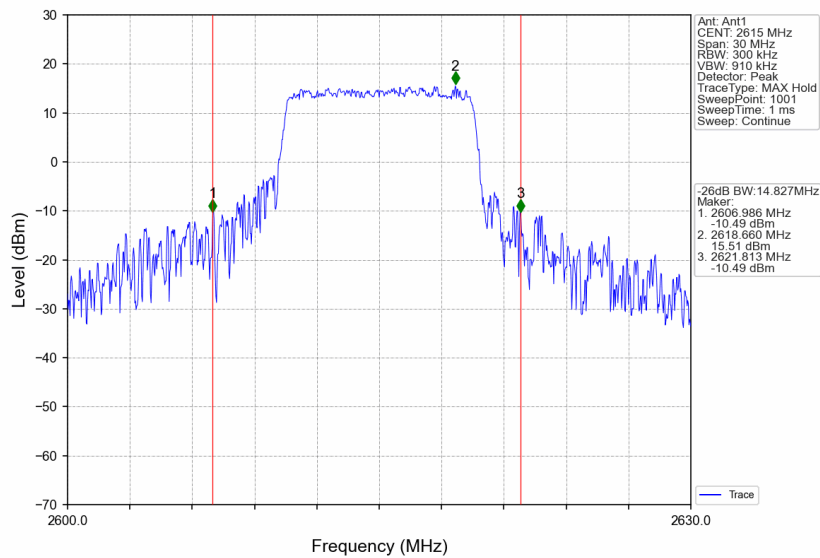
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Band38\_10MHz\_256QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_256QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV

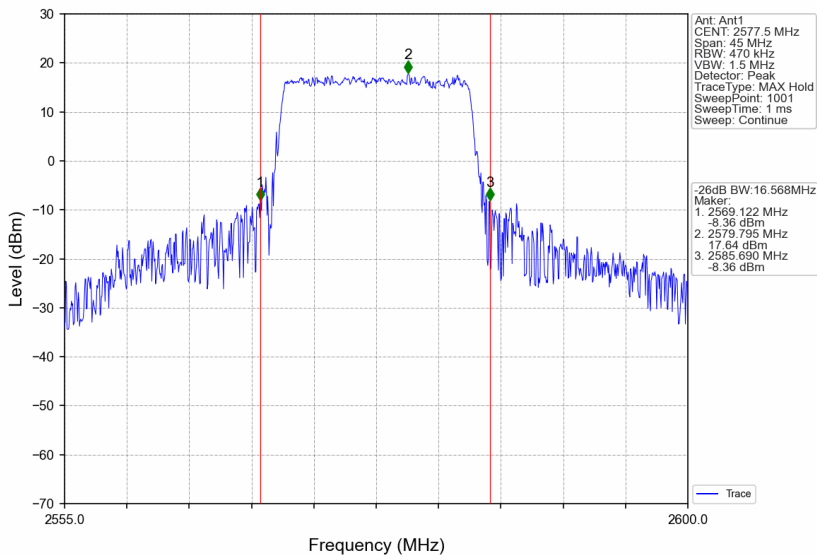


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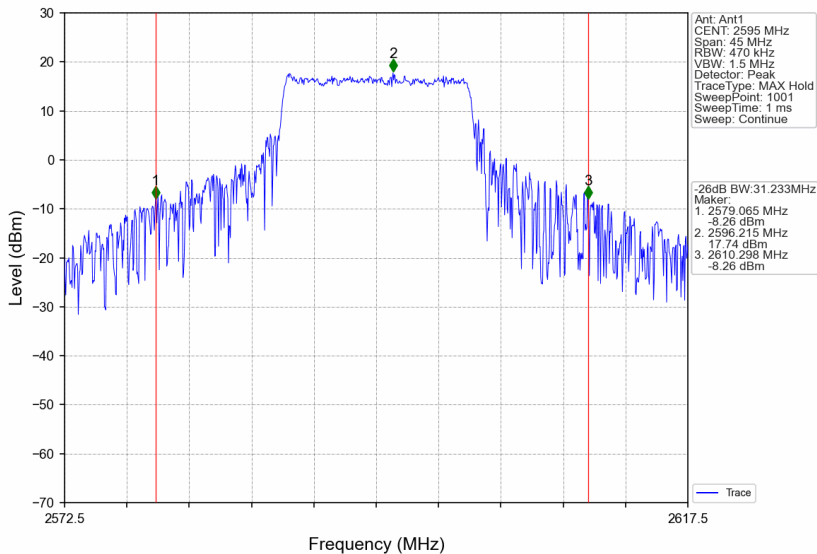
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Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



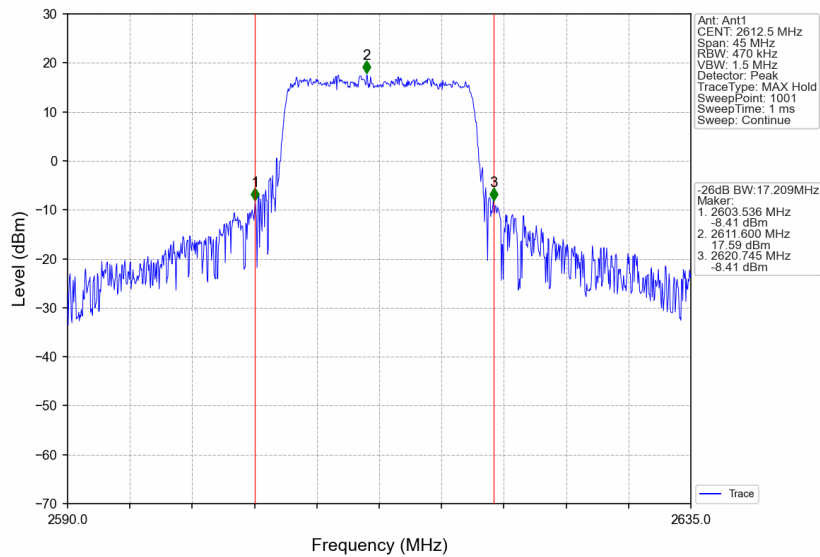
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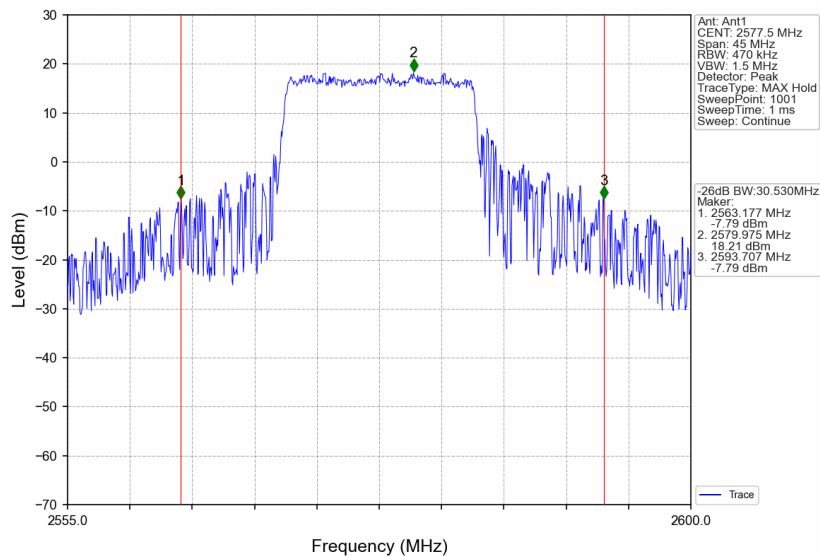
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

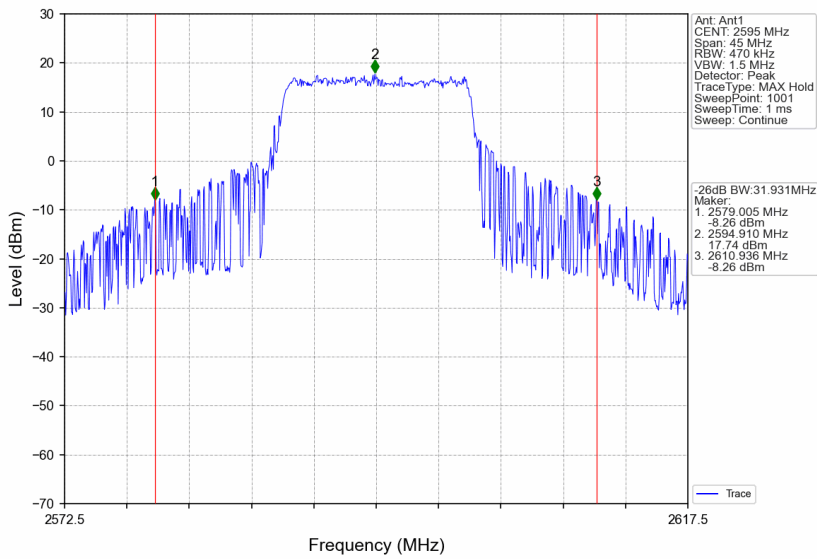


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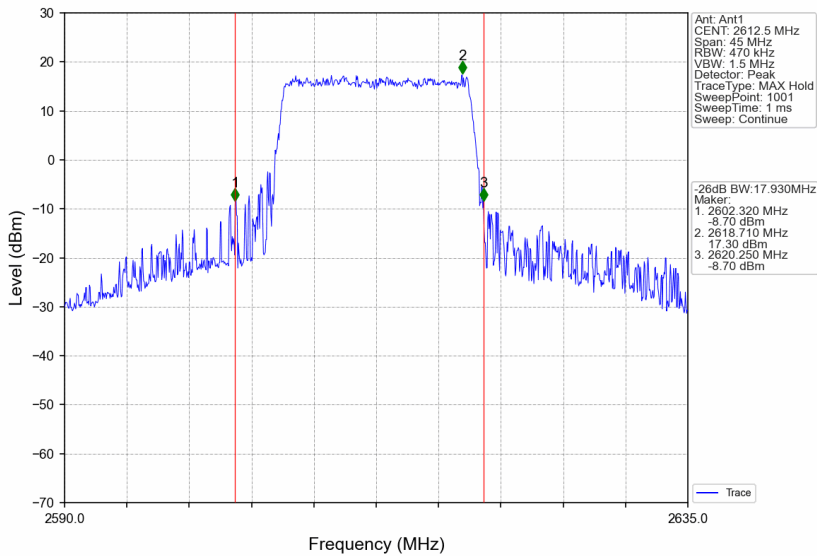
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Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV

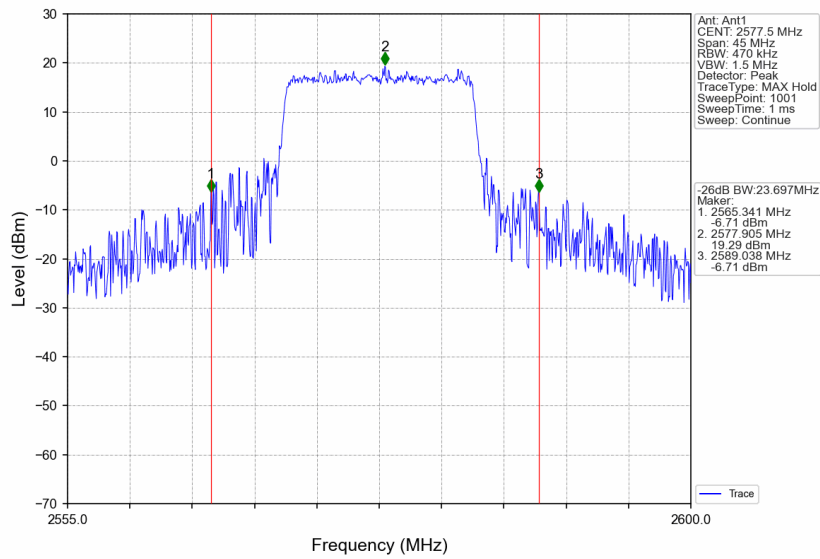


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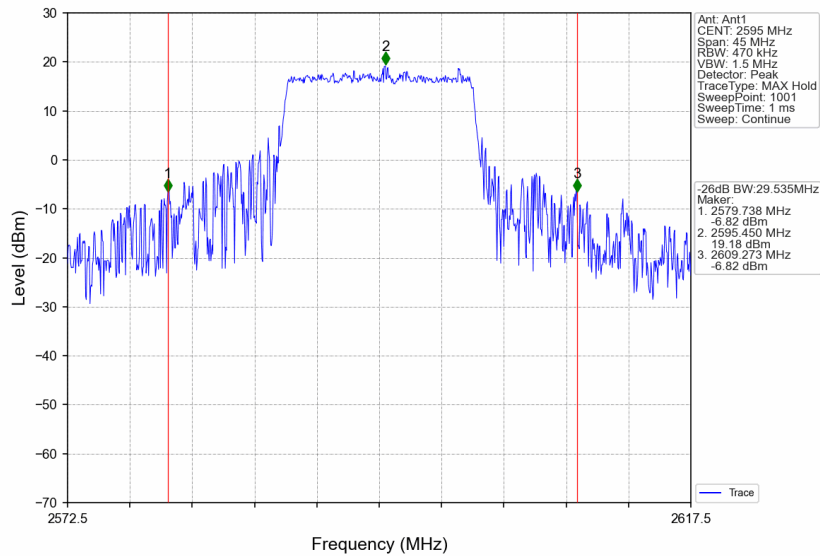
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Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



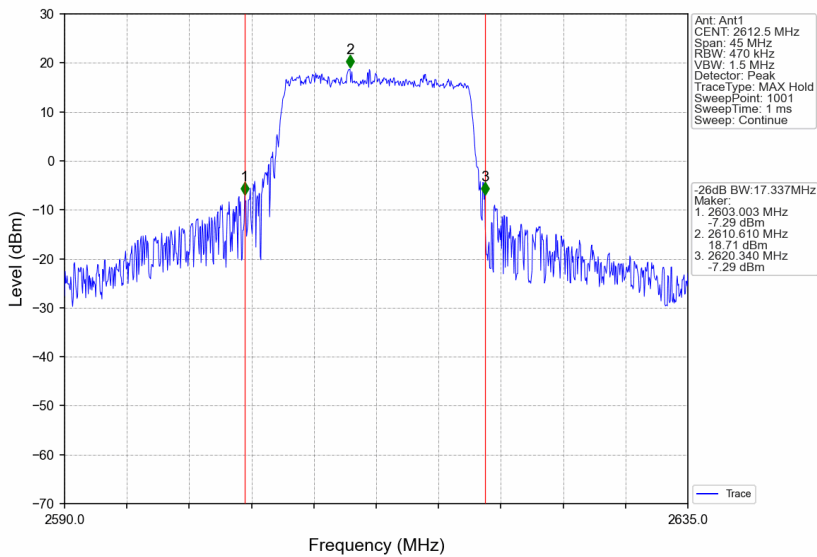
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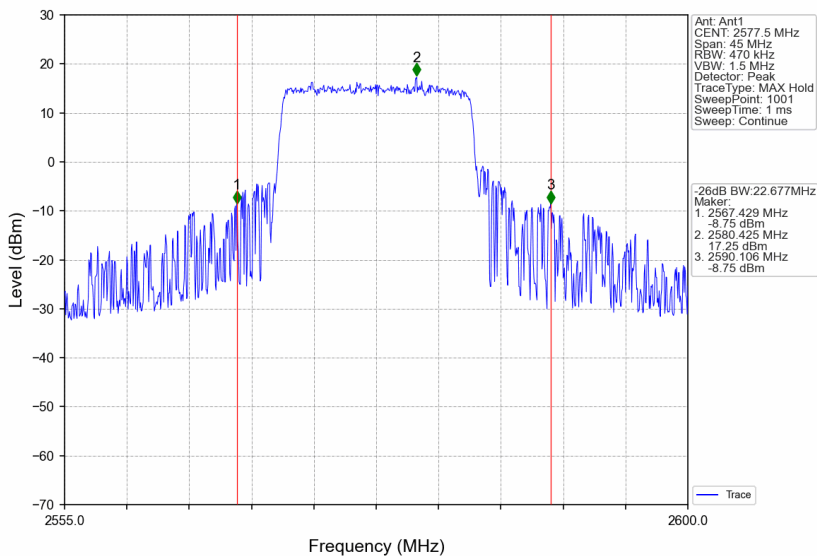
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Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_256QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

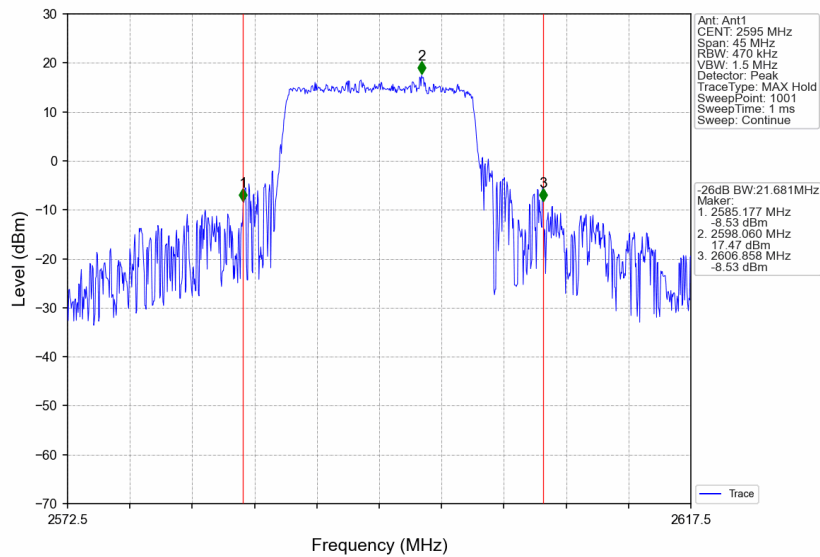


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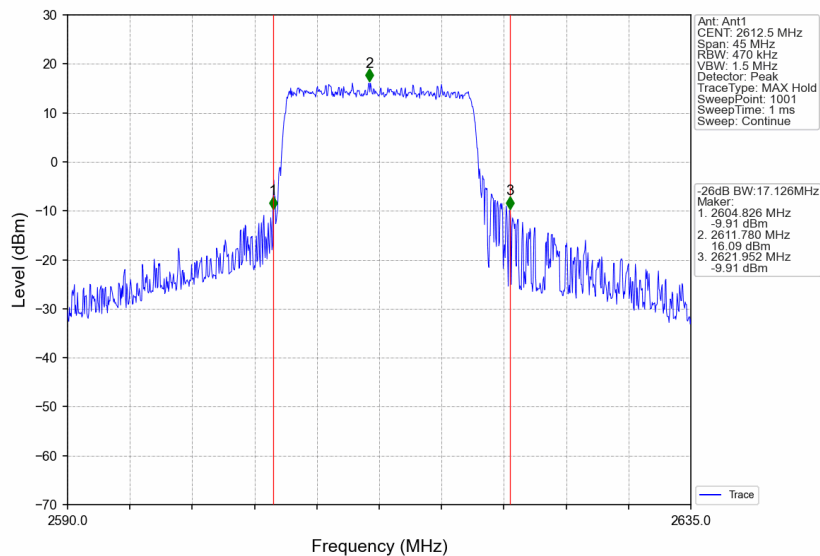
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Band38\_15MHz\_256QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_256QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV

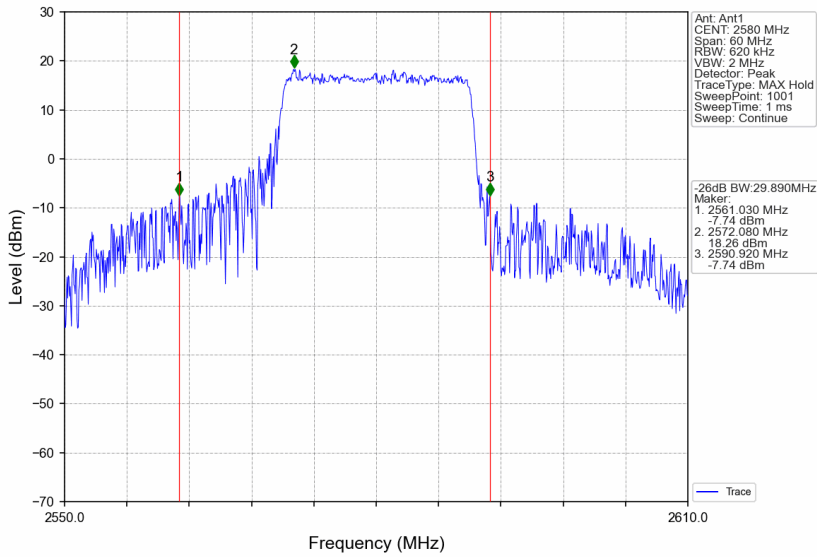


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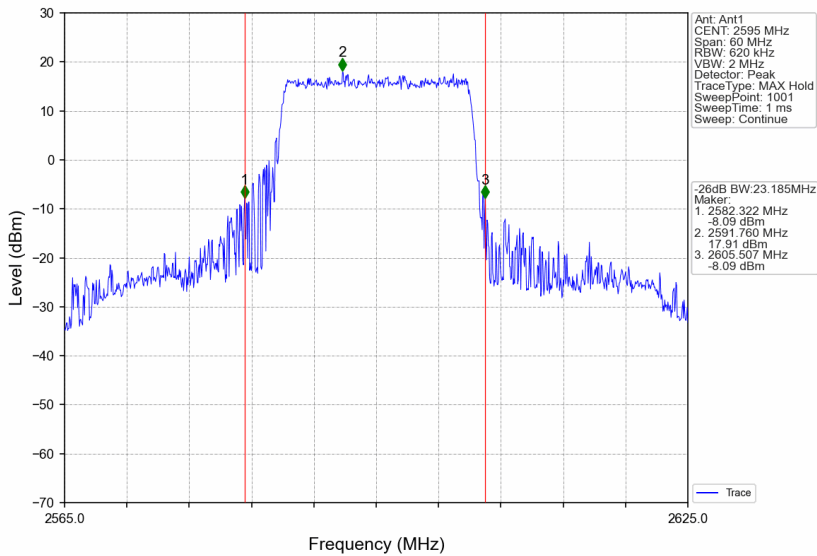
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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV

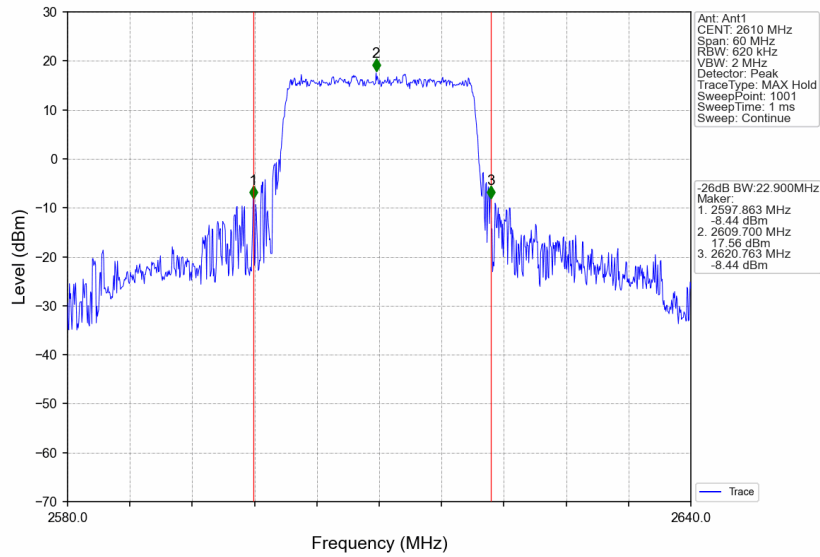


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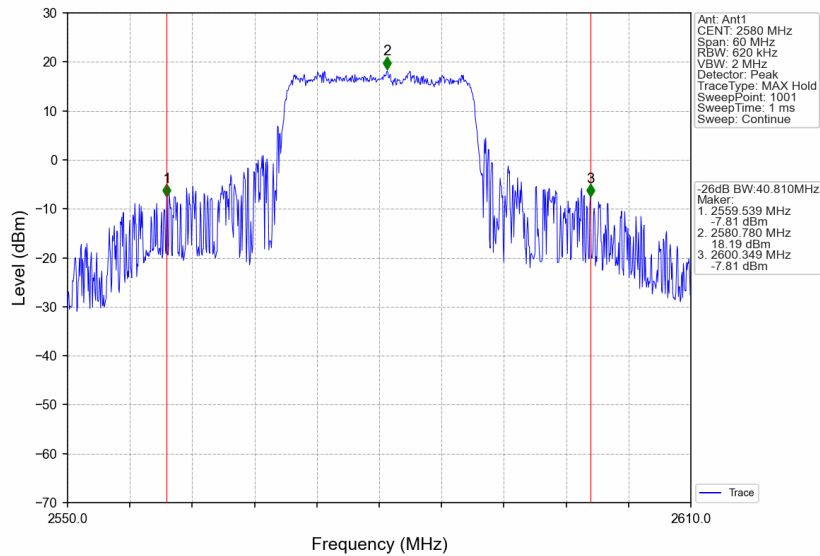
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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



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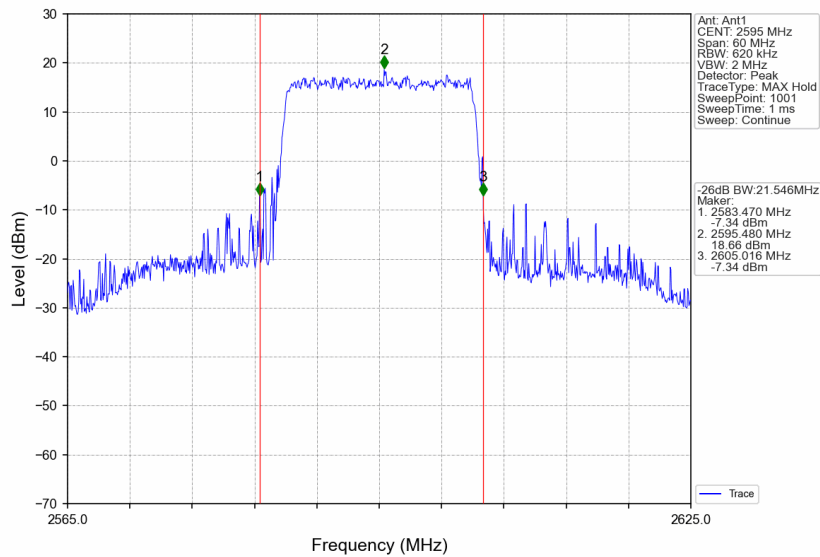
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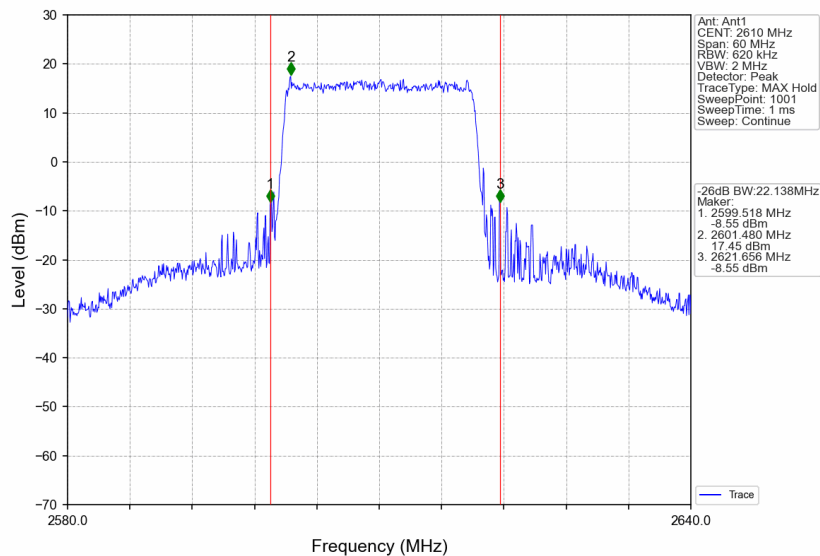
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Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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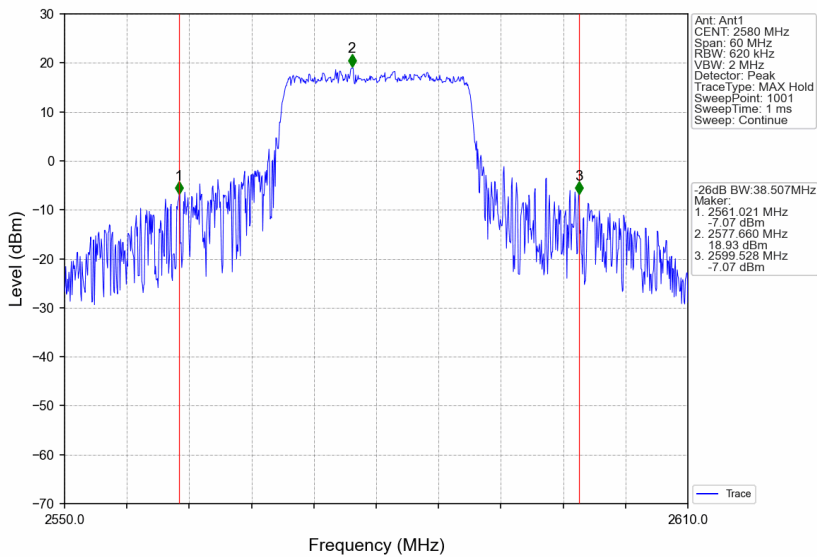
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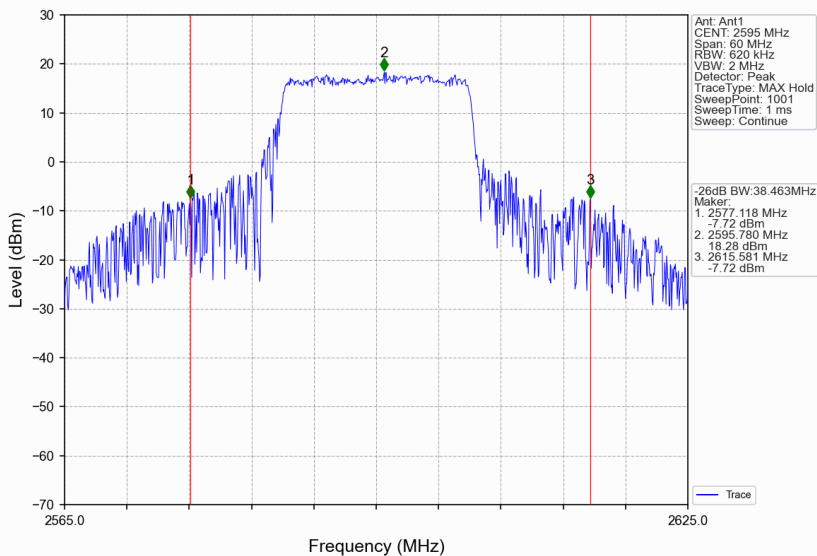
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Band38\_20MHz\_64QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV

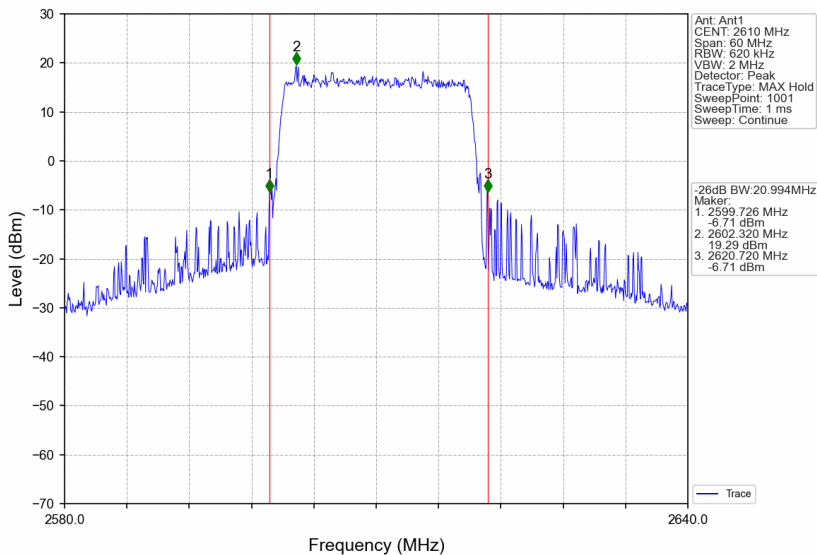


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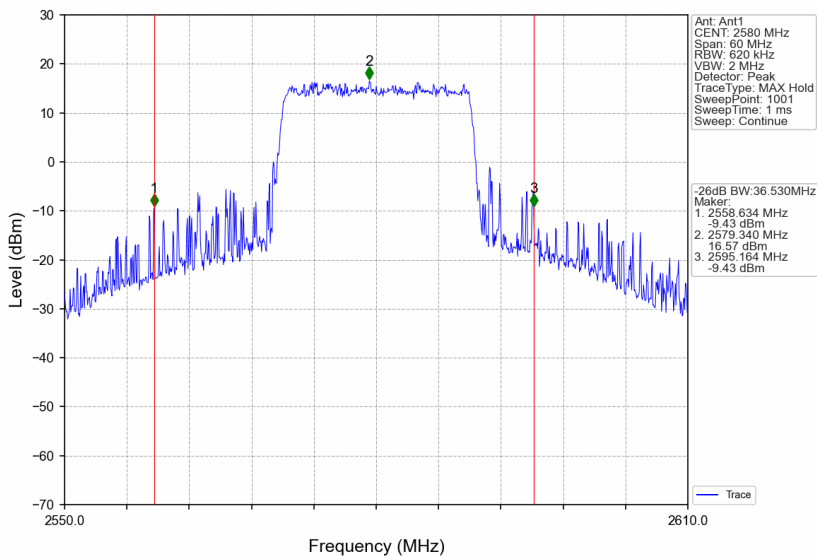
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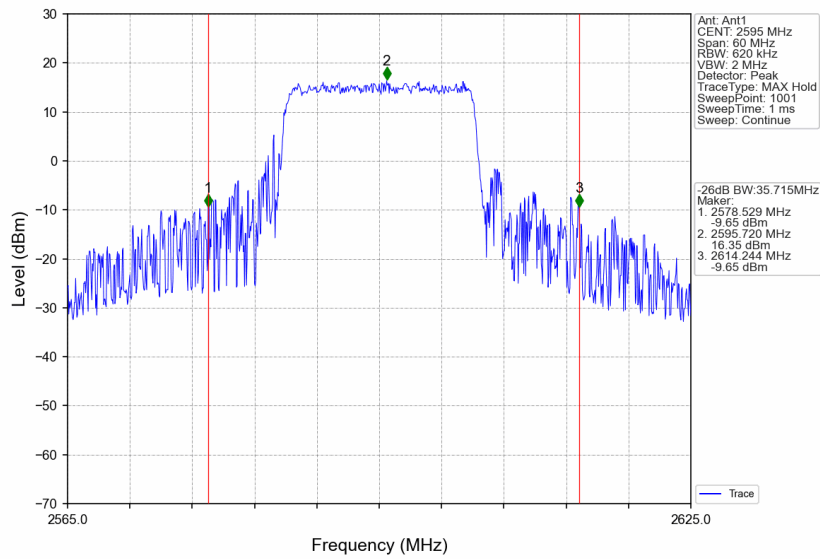
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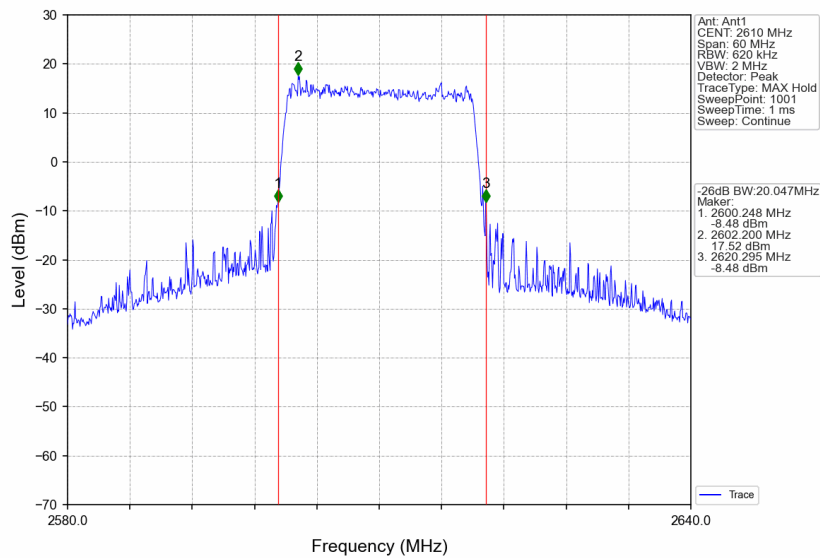
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Band38\_20MHz\_256QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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## 4. Peak-Average Ratio

### 4.1 B38\_5MHz

#### 4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.06	<=13	Pass
	2595	25	0	7.07	<=13	Pass
	2617.5	25	0	7.29	<=13	Pass
16QAM	2572.5	25	0	7.65	<=13	Pass
	2595	25	0	7.83	<=13	Pass
	2617.5	25	0	8.04	<=13	Pass
64QAM	2572.5	25	0	8.19	<=13	Pass
	2595	25	0	8.15	<=13	Pass
	2617.5	25	0	8.40	<=13	Pass
256QAM	2572.5	25	0	8.75	<=13	Pass
	2595	25	0	8.81	<=13	Pass
	2617.5	25	0	8.86	<=13	Pass

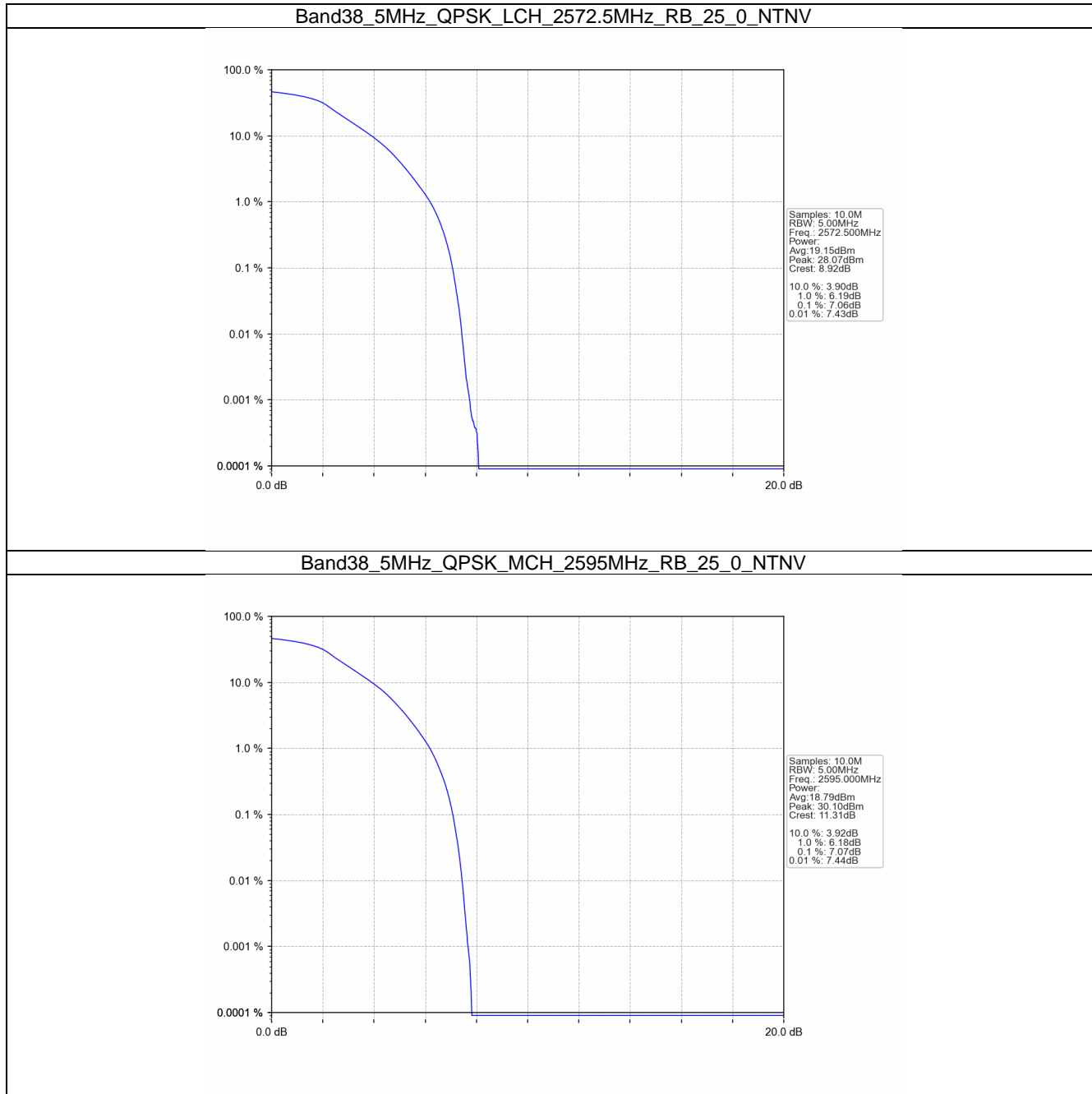


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4.1.2 Test Graph



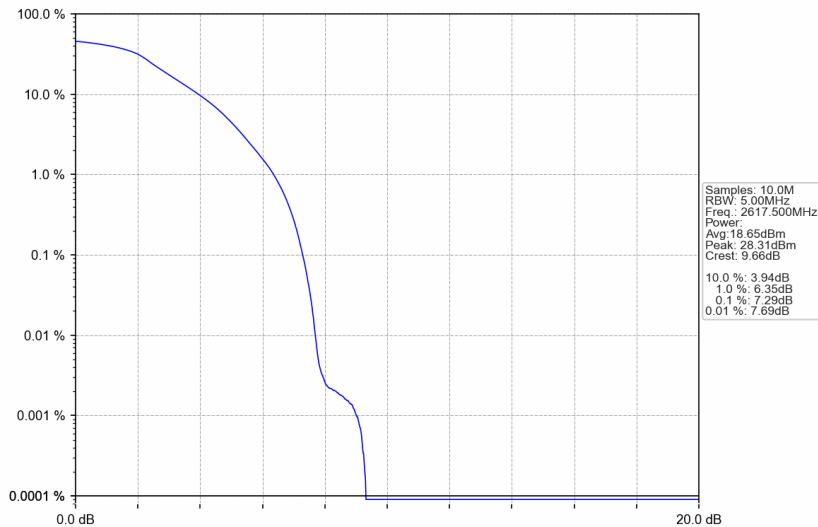
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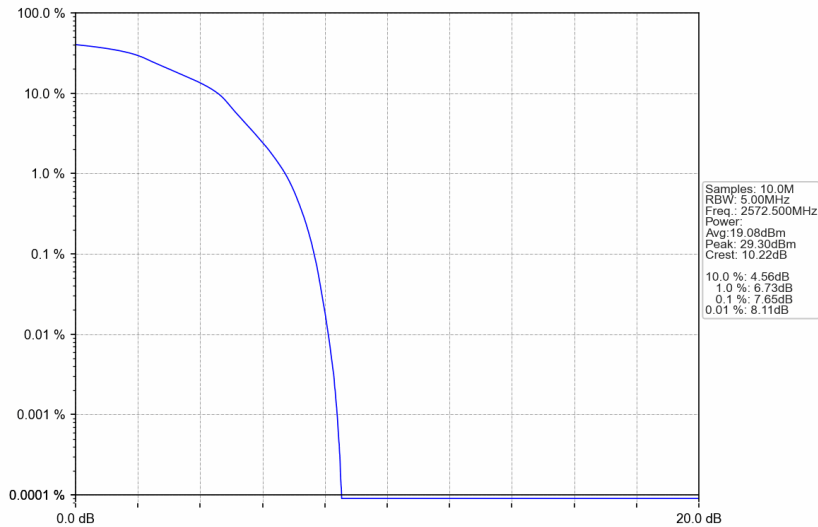
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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



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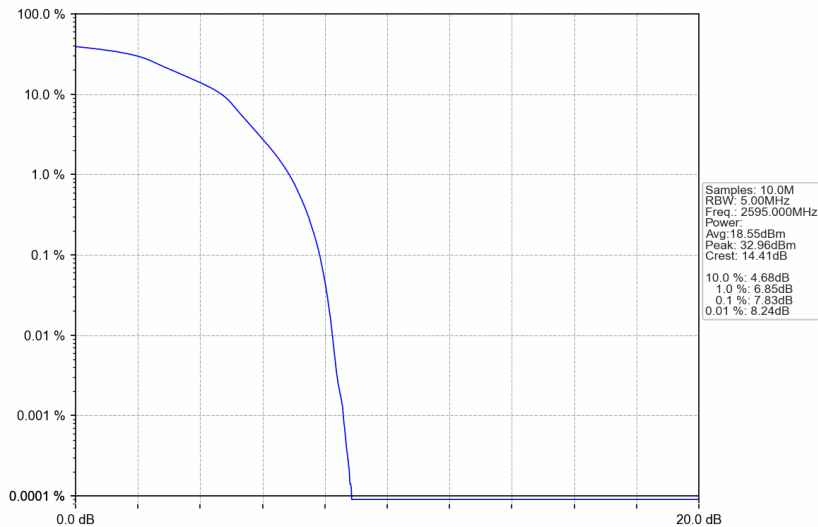
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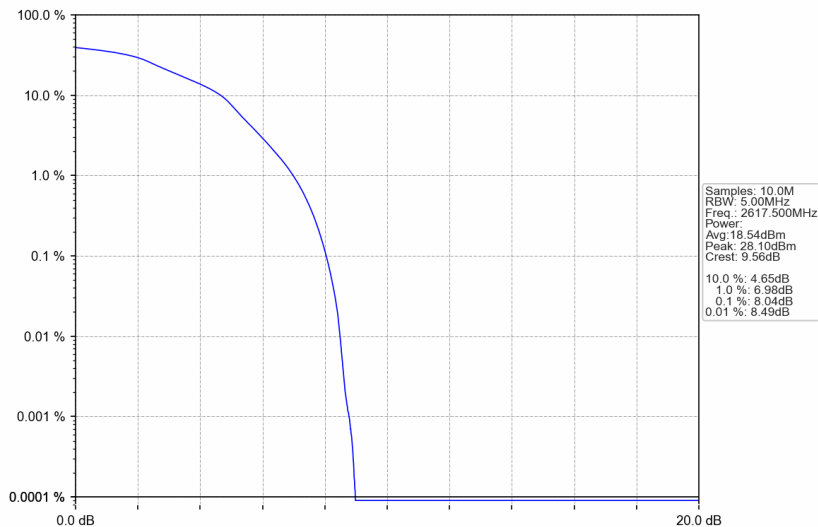
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Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV

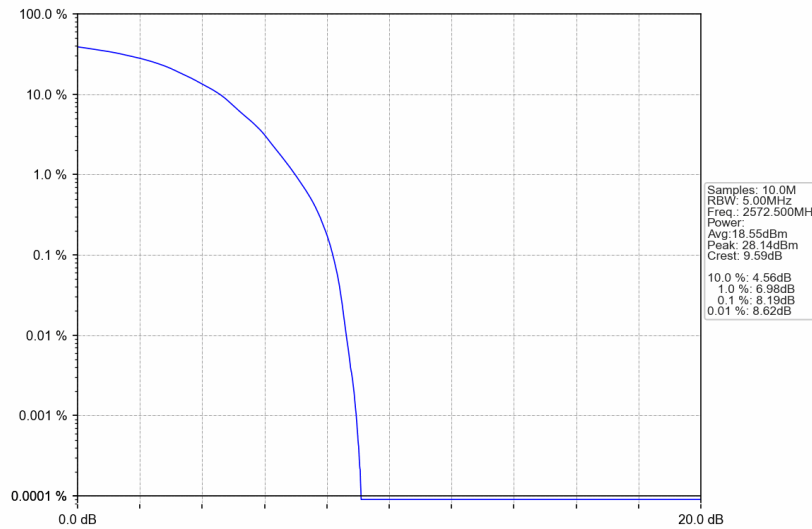


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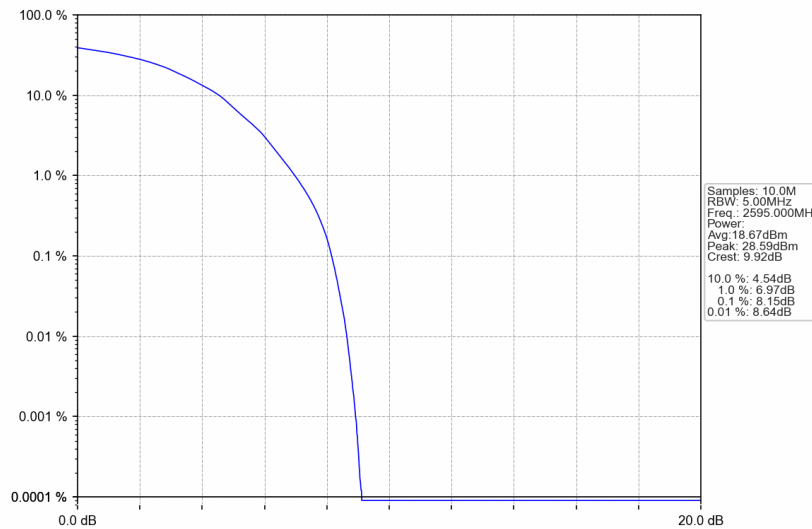
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Band38\_5MHz\_64QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_64QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV

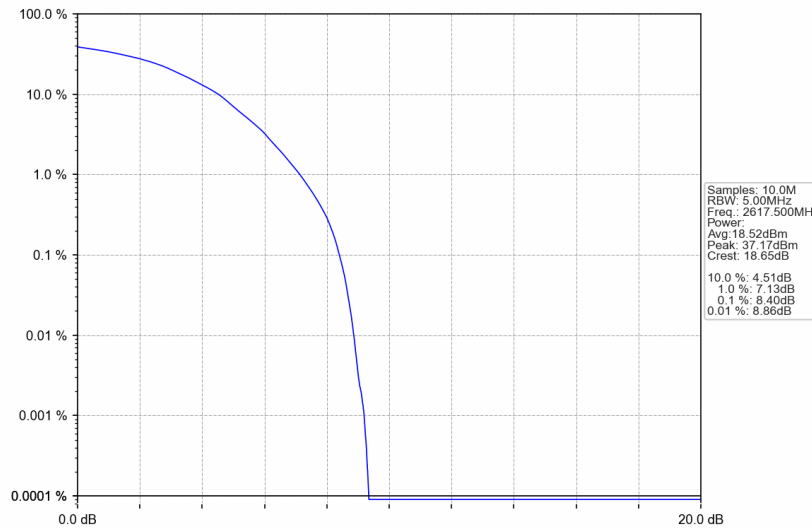


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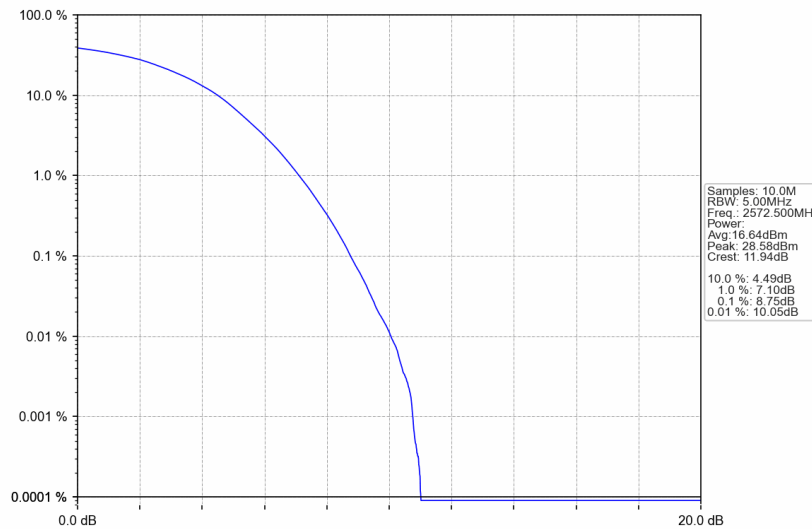
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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_256QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV

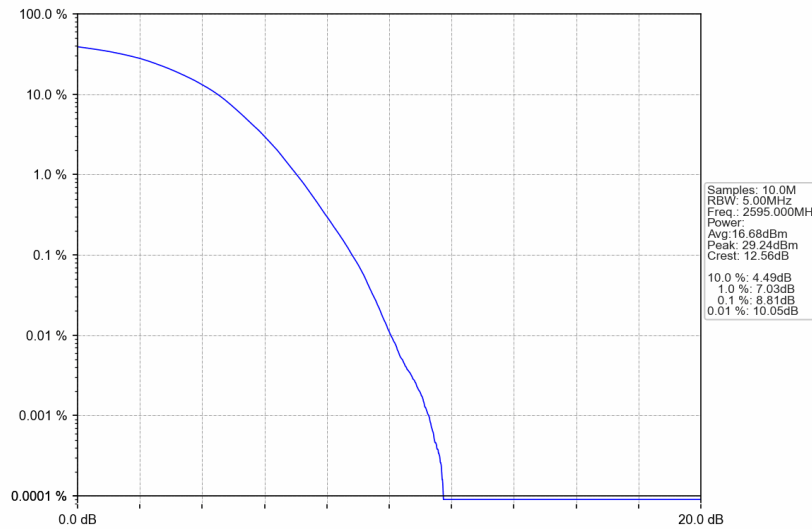


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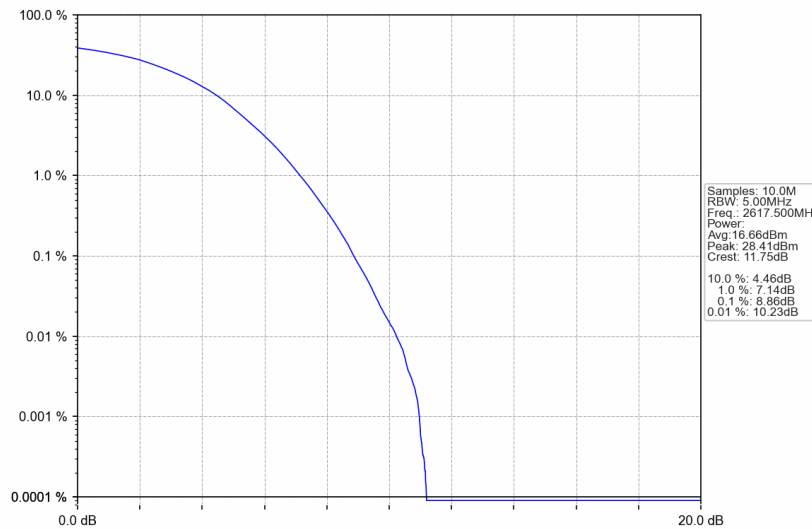
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Band38\_5MHz\_256QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



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## 4.2 B38\_10MHz

### 4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	6.75	<=13	Pass
	2595	50	0	7.25	<=13	Pass
	2615	50	0	7.26	<=13	Pass
16QAM	2575	50	0	7.72	<=13	Pass
	2595	50	0	7.90	<=13	Pass
	2615	50	0	7.87	<=13	Pass
64QAM	2575	50	0	8.18	<=13	Pass
	2595	50	0	8.21	<=13	Pass
	2615	50	0	8.31	<=13	Pass
256QAM	2575	50	0	8.50	<=13	Pass
	2595	50	0	8.48	<=13	Pass
	2615	50	0	8.82	<=13	Pass



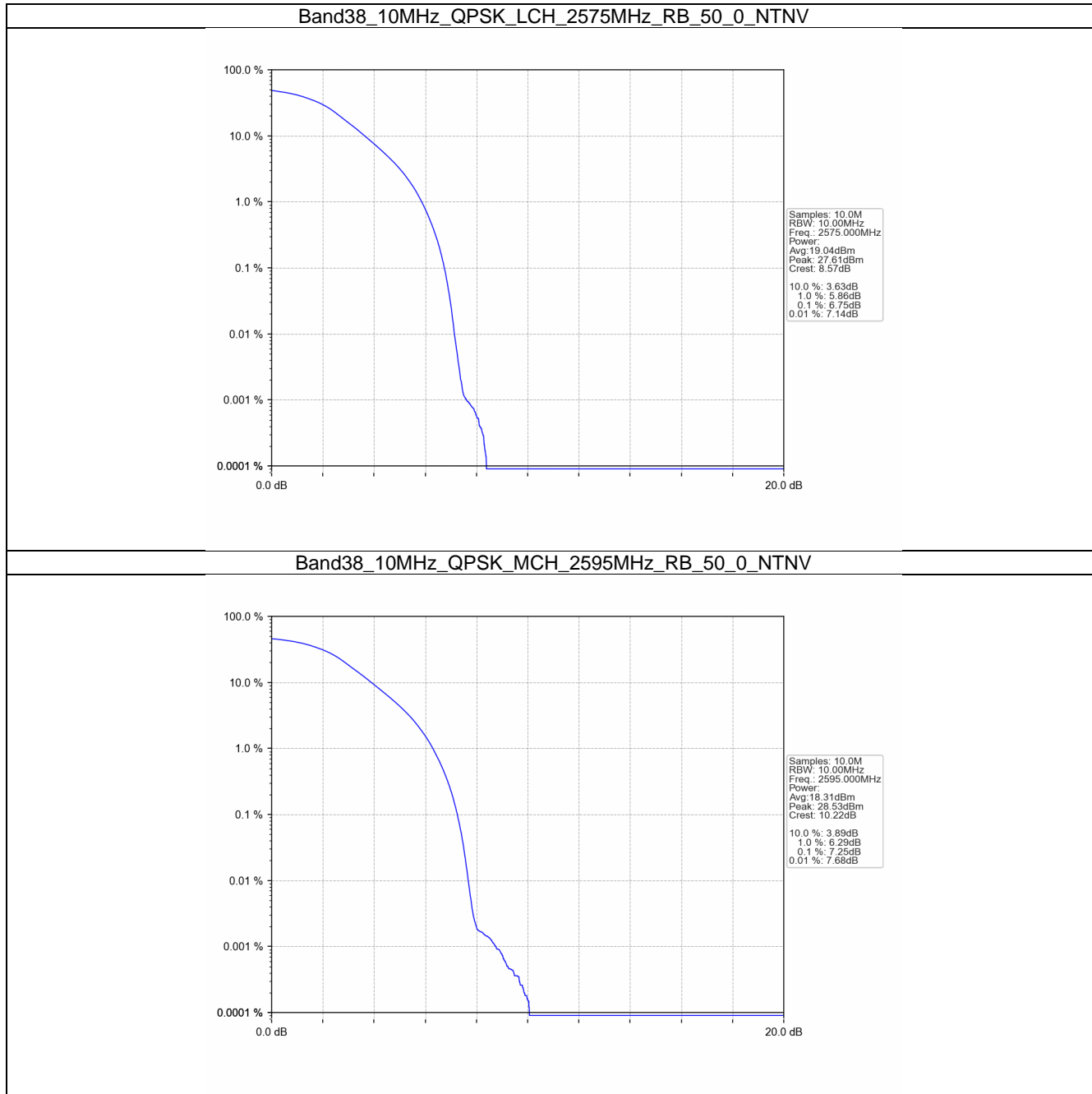
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4.2.2 Test Graph

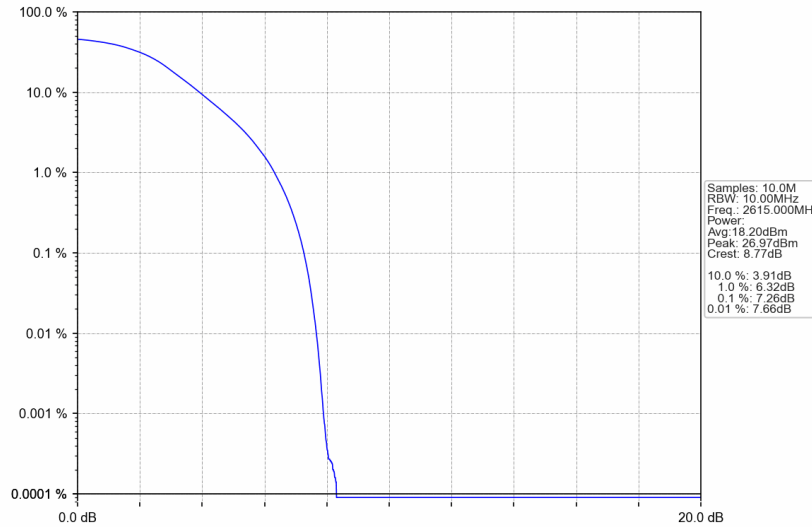


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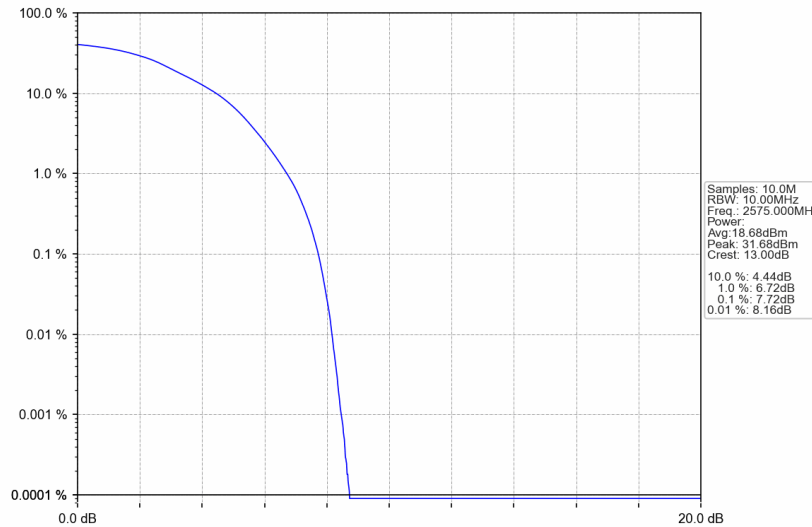
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



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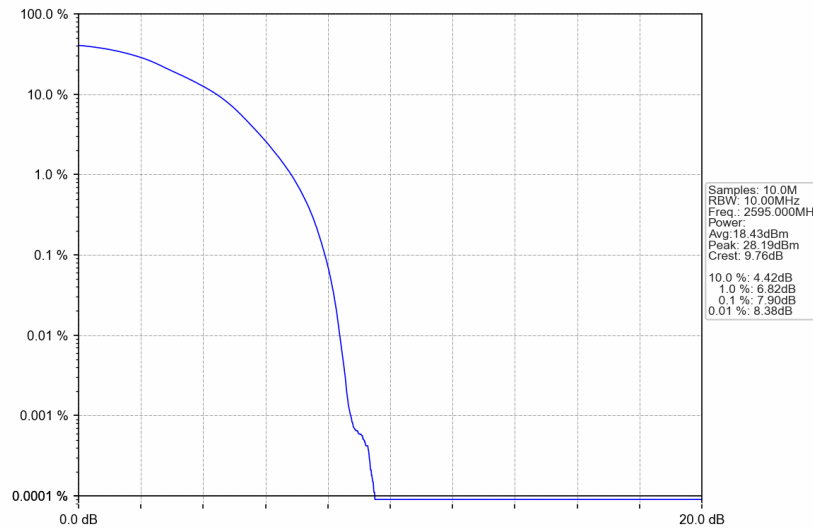
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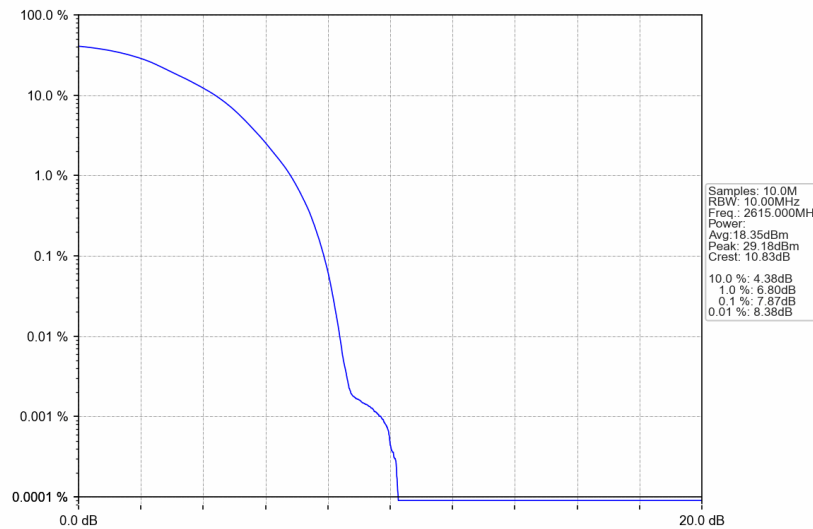
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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



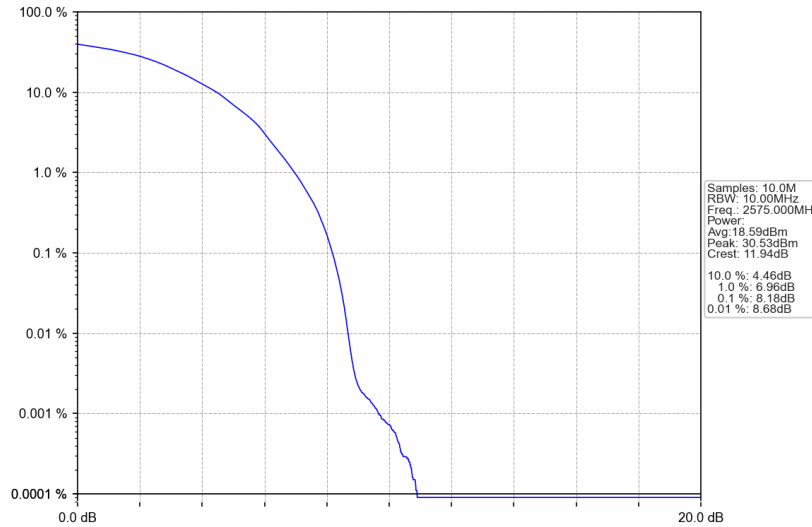
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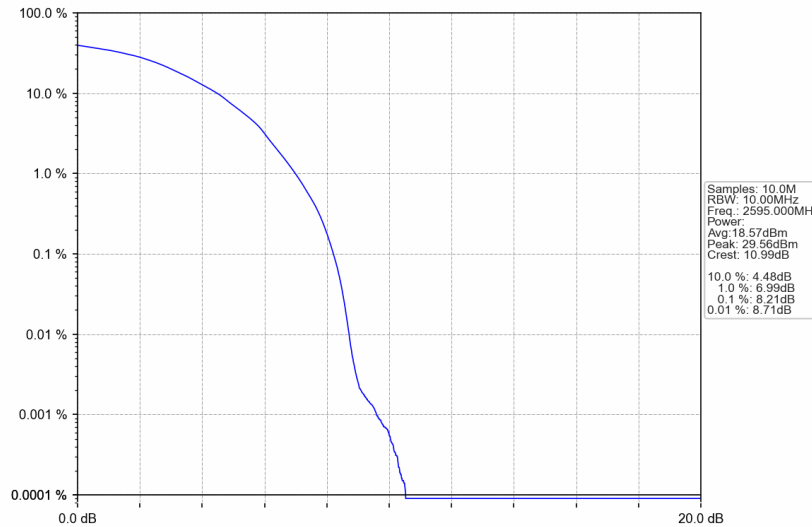
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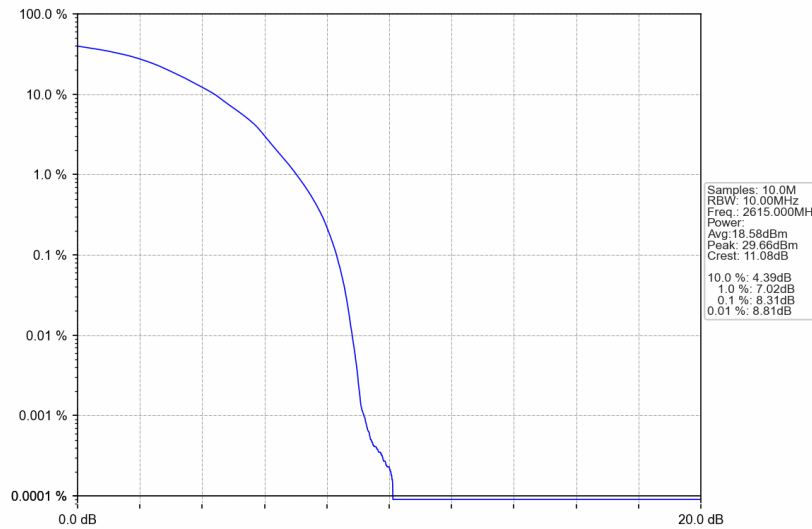
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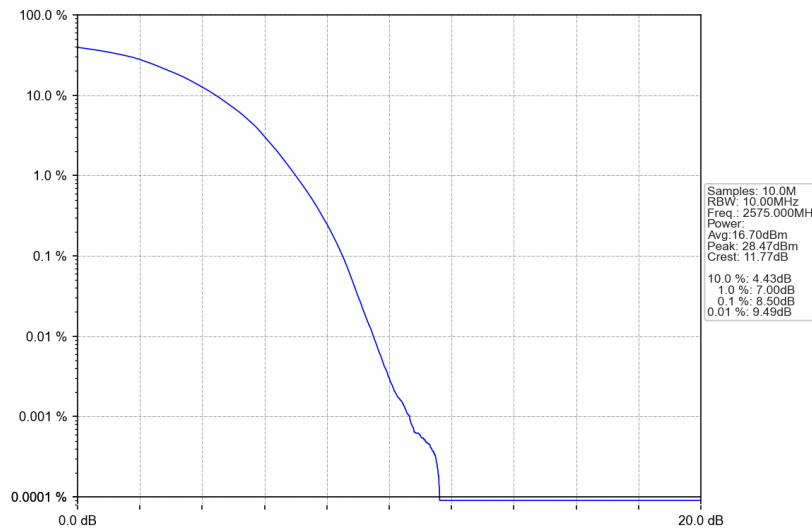
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Band38\_10MHz\_256QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV

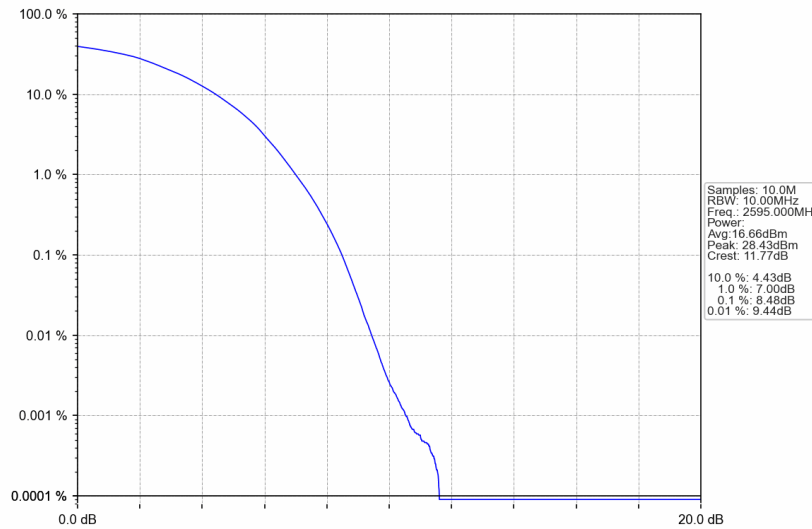


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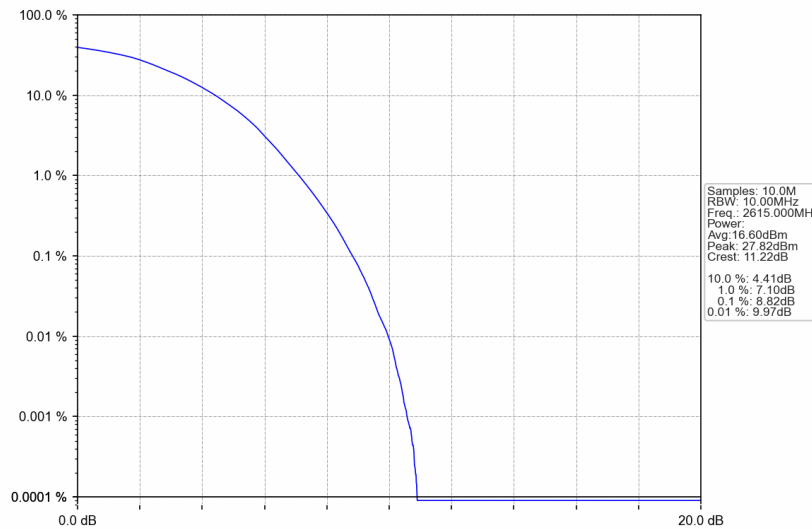
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Band38\_10MHz\_256QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



Band38\_10MHz\_256QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



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### 4.3 B38\_15MHz

#### 4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.26	<=13	Pass
	2595	75	0	7.29	<=13	Pass
	2612.5	75	0	7.37	<=13	Pass
16QAM	2577.5	75	0	8.34	<=13	Pass
	2595	75	0	8.19	<=13	Pass
	2612.5	75	0	8.42	<=13	Pass
64QAM	2577.5	75	0	8.06	<=13	Pass
	2595	75	0	8.08	<=13	Pass
	2612.5	75	0	8.44	<=13	Pass
256QAM	2577.5	75	0	8.62	<=13	Pass
	2595	75	0	8.76	<=13	Pass
	2612.5	75	0	8.84	<=13	Pass

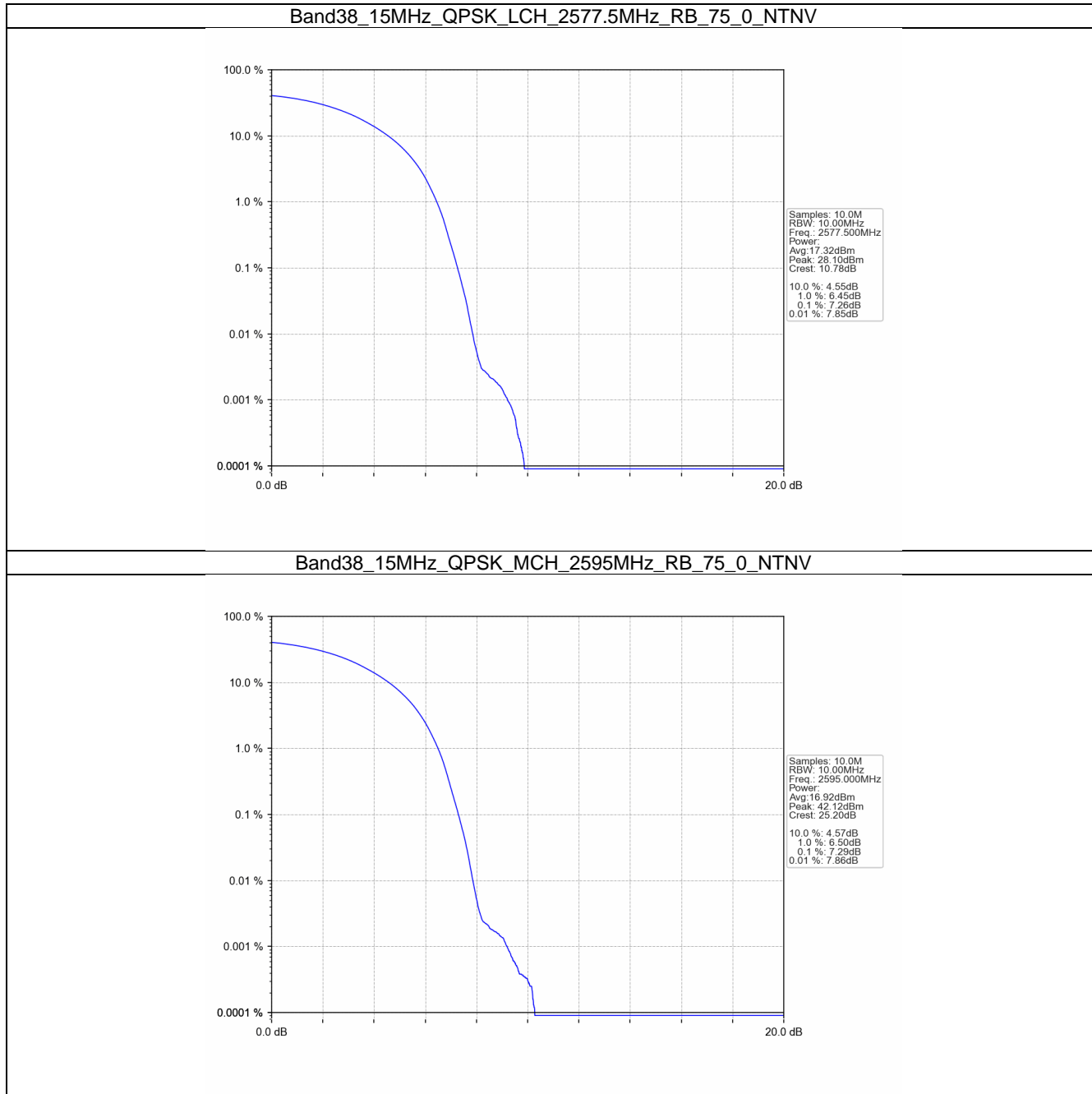


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4.3.2 Test Graph

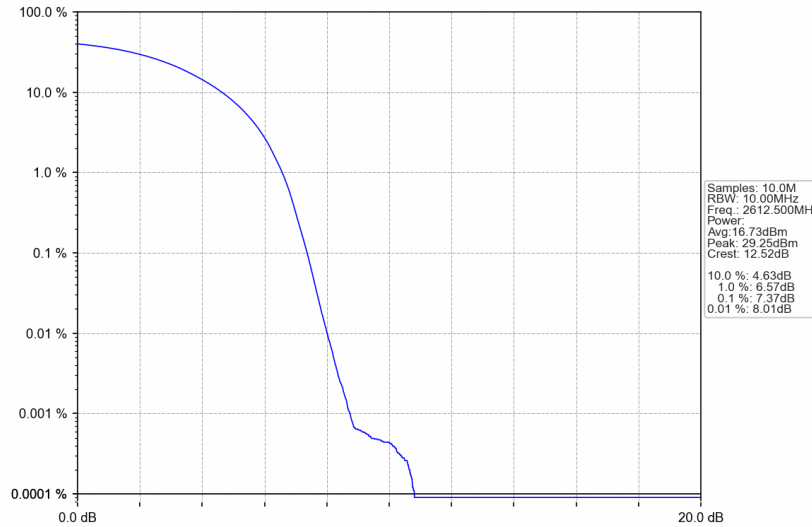


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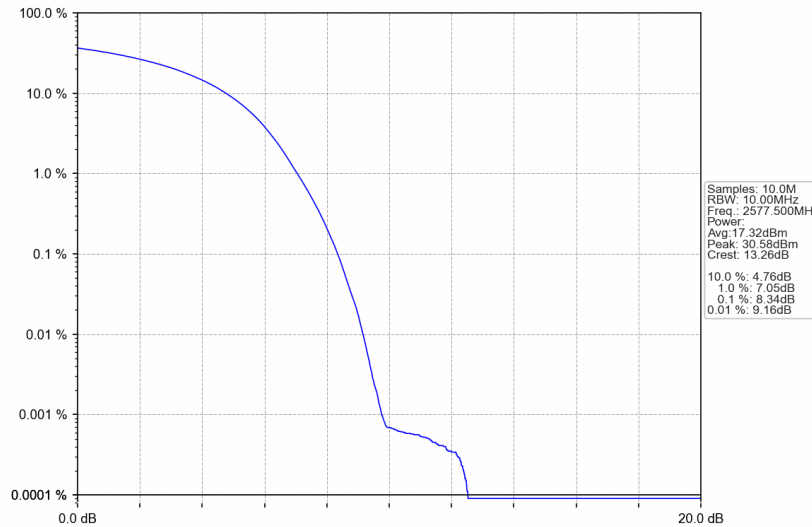
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



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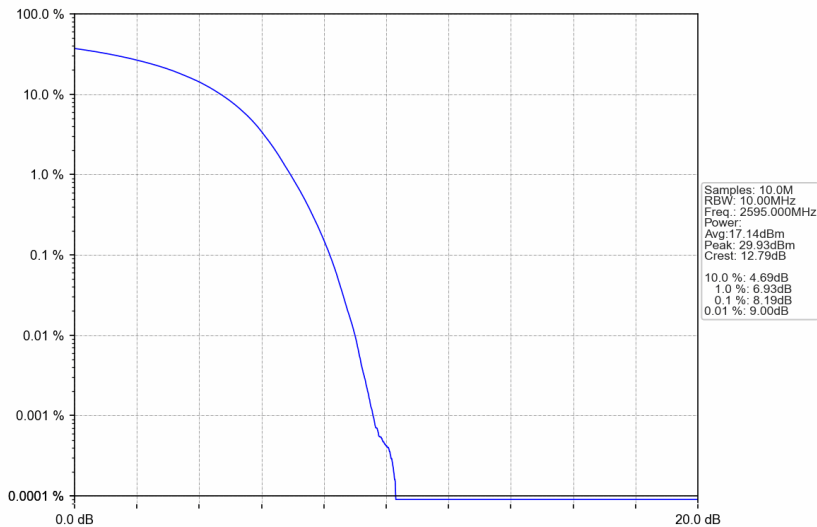
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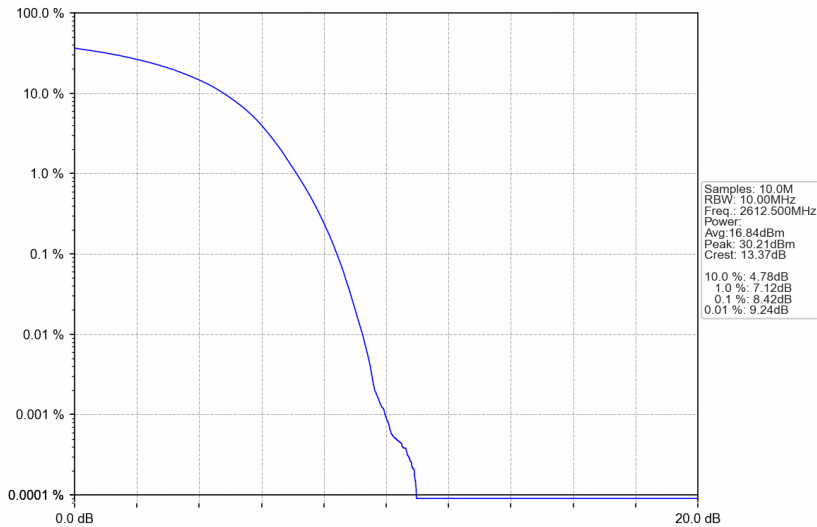
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Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



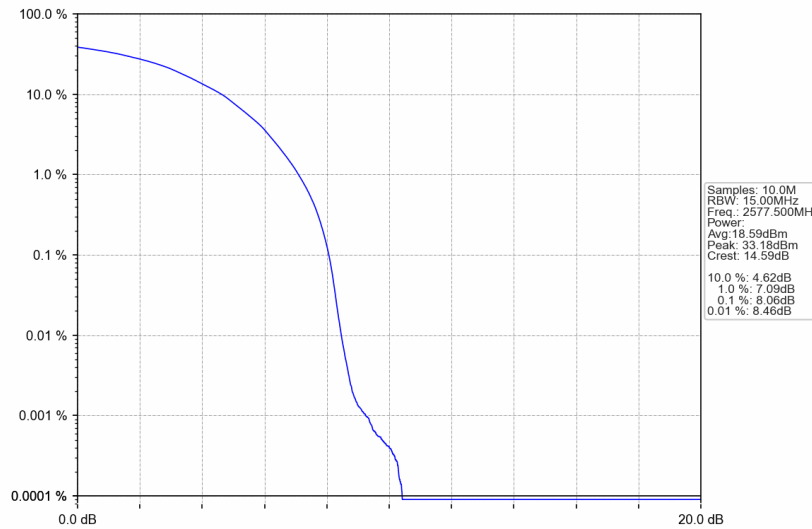
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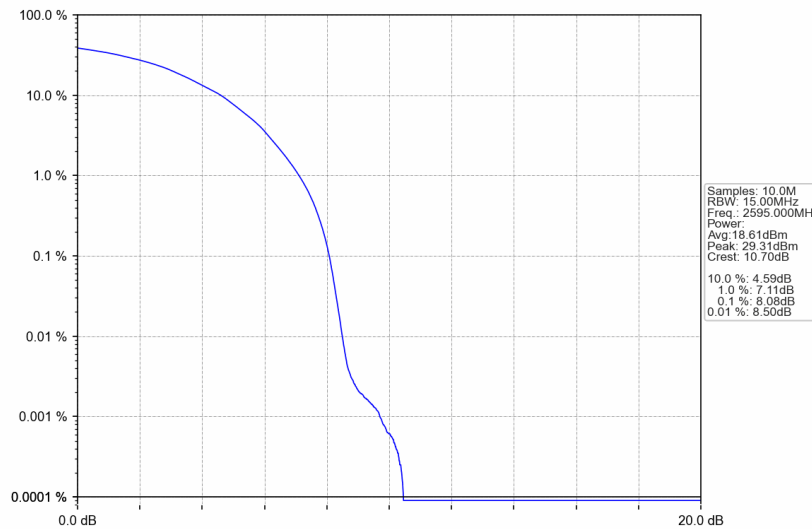
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Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



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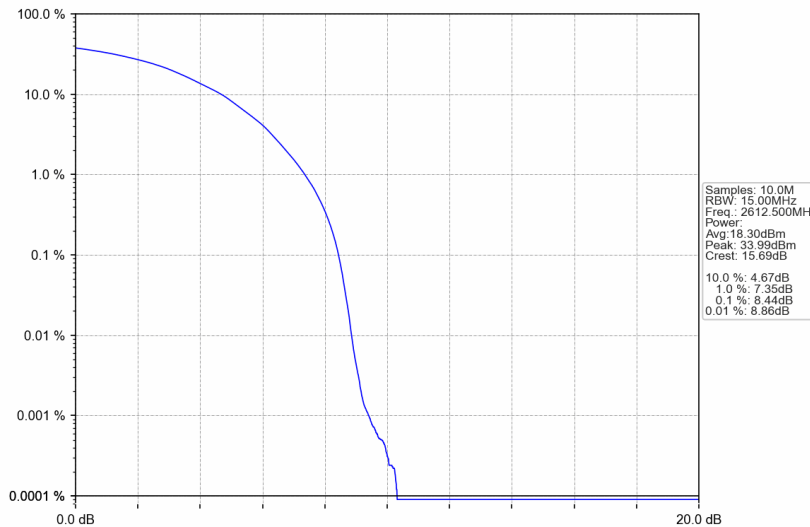
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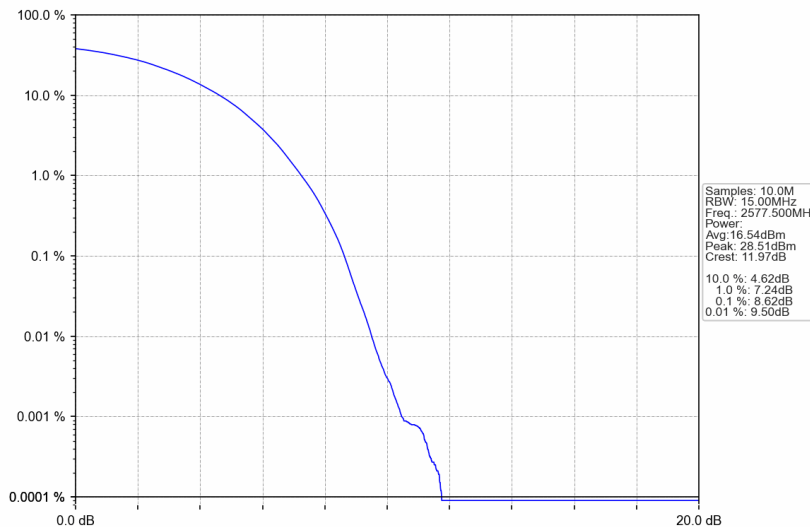
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Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



Band38\_15MHz\_256QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

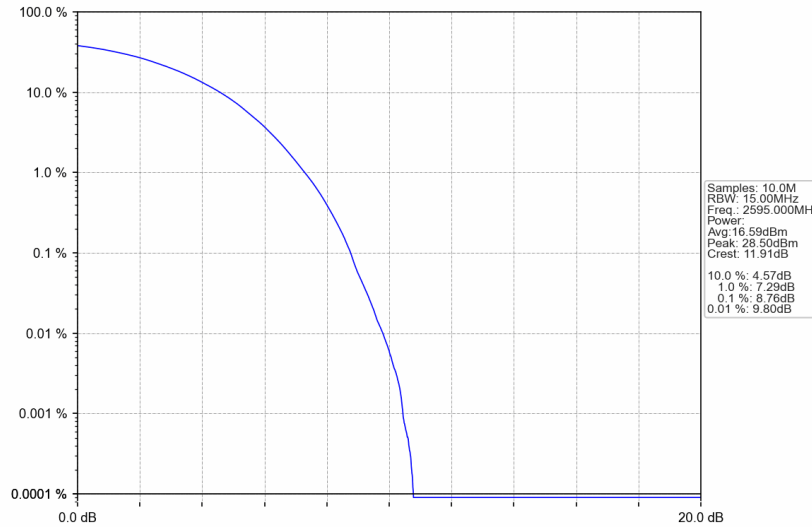


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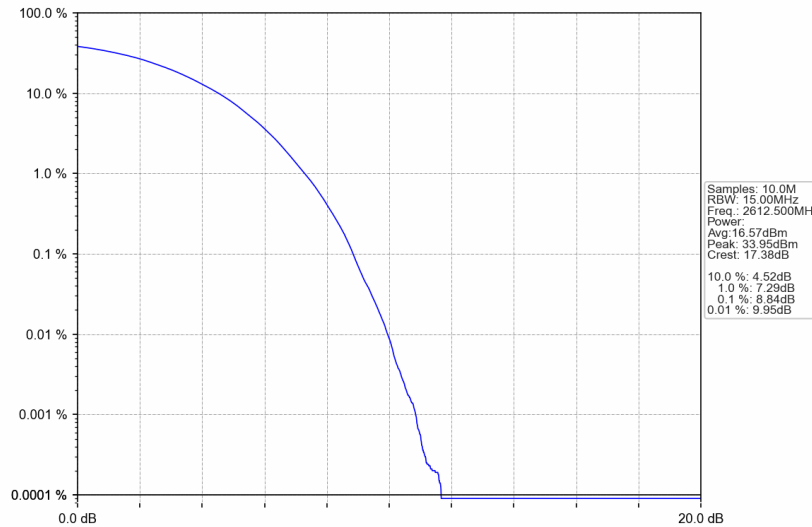
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Band38\_15MHz\_256QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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4.4 B38\_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	8.00	<=13	Pass
	2595	100	0	7.95	<=13	Pass
	2610	100	0	7.78	<=13	Pass
16QAM	2580	100	0	8.75	<=13	Pass
	2595	100	0	8.88	<=13	Pass
	2610	100	0	8.70	<=13	Pass
64QAM	2580	100	0	8.41	<=13	Pass
	2595	100	0	8.24	<=13	Pass
	2610	100	0	8.56	<=13	Pass
256QAM	2580	100	0	8.49	<=13	Pass
	2595	100	0	8.66	<=13	Pass
	2610	100	0	8.89	<=13	Pass



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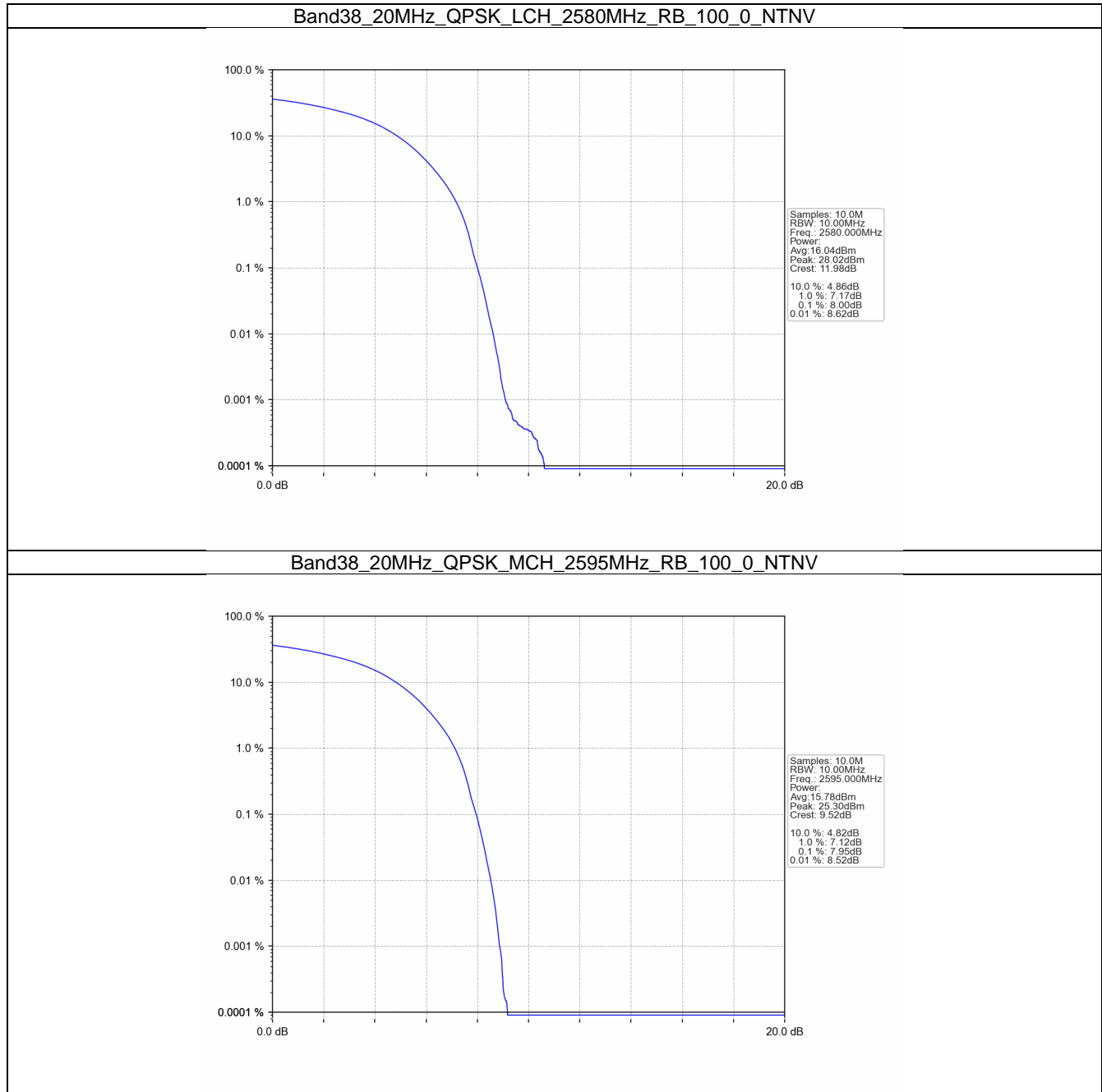
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4.4.2 Test Graph

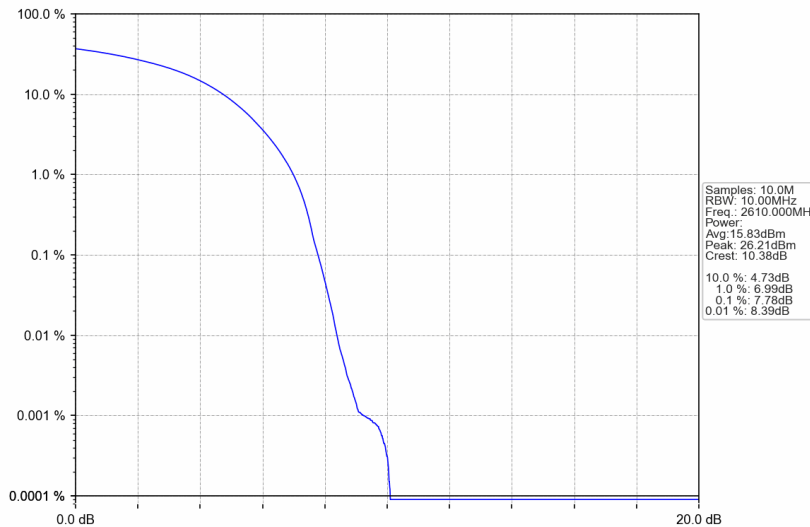


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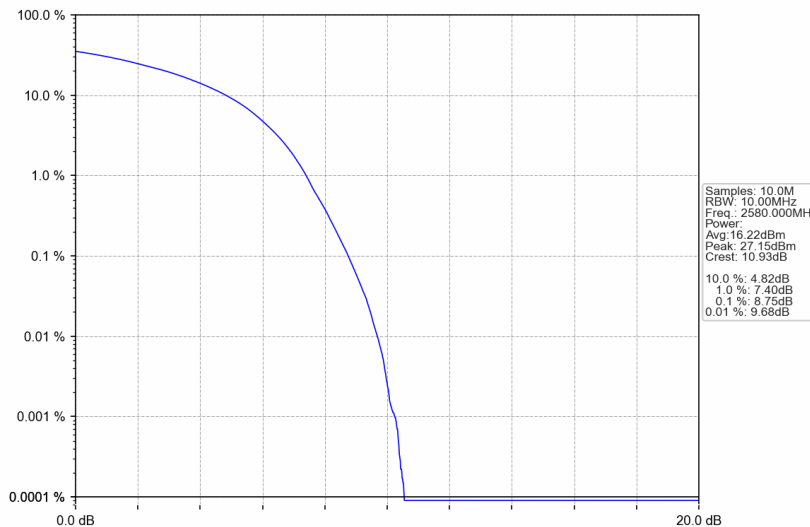
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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV

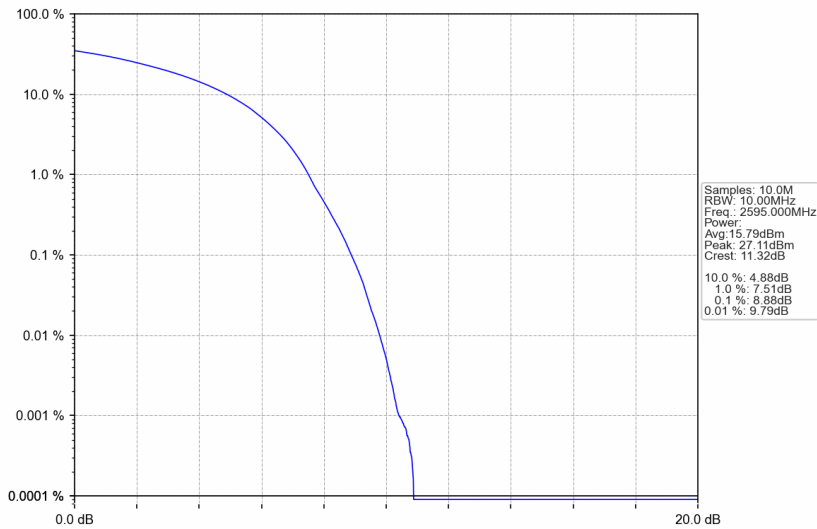


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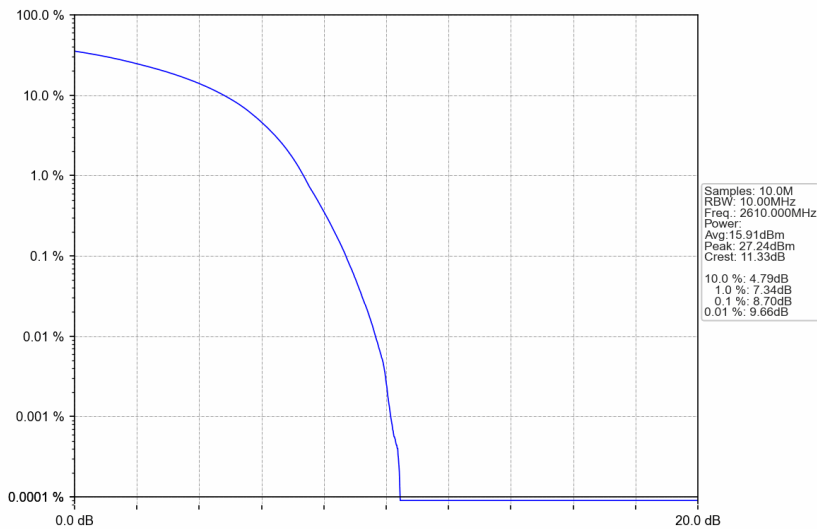
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Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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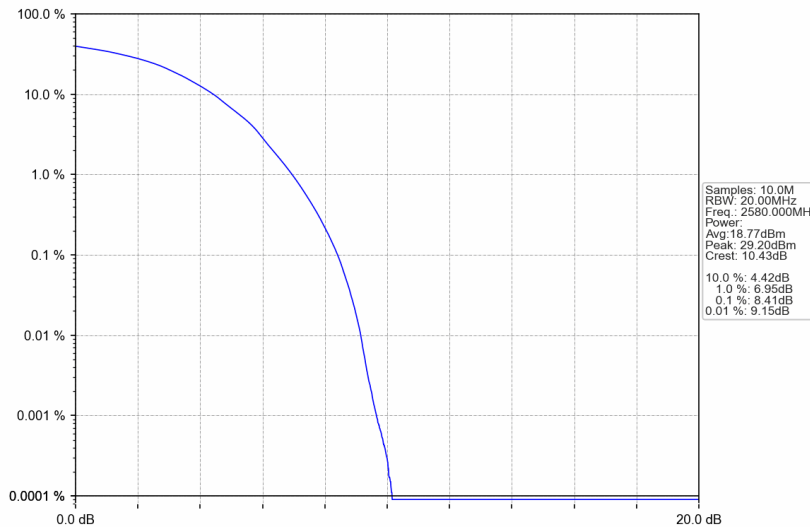
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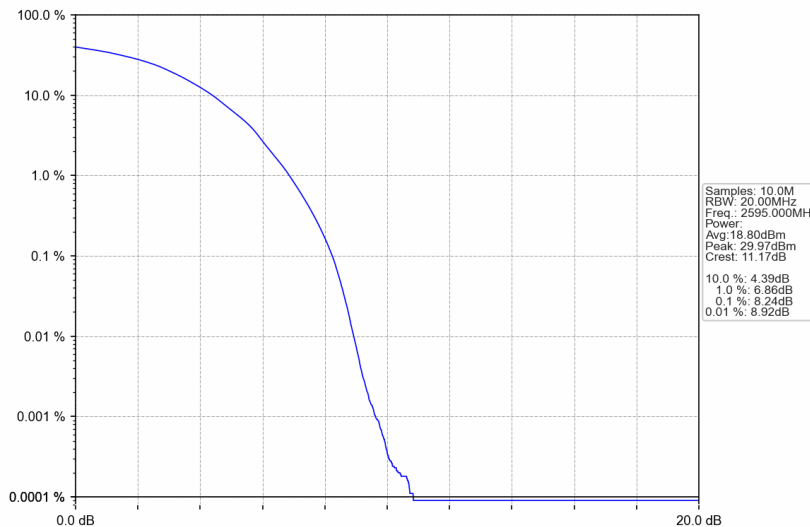
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Band38\_20MHz\_64QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV

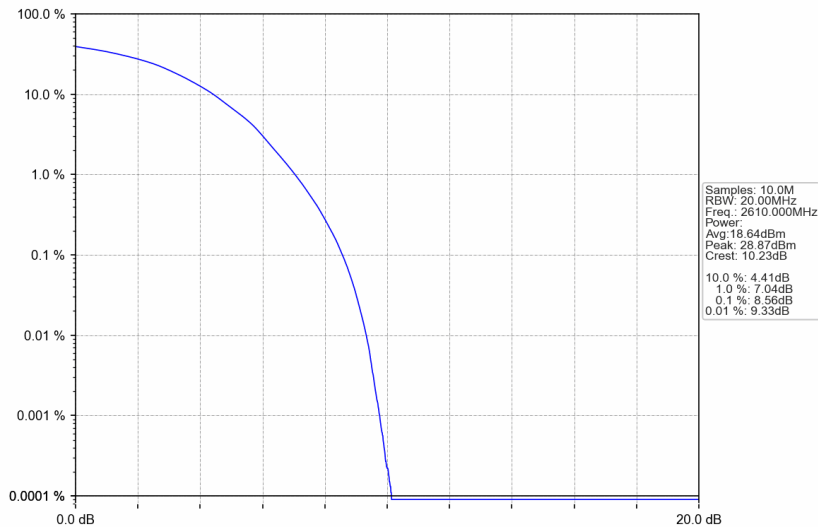


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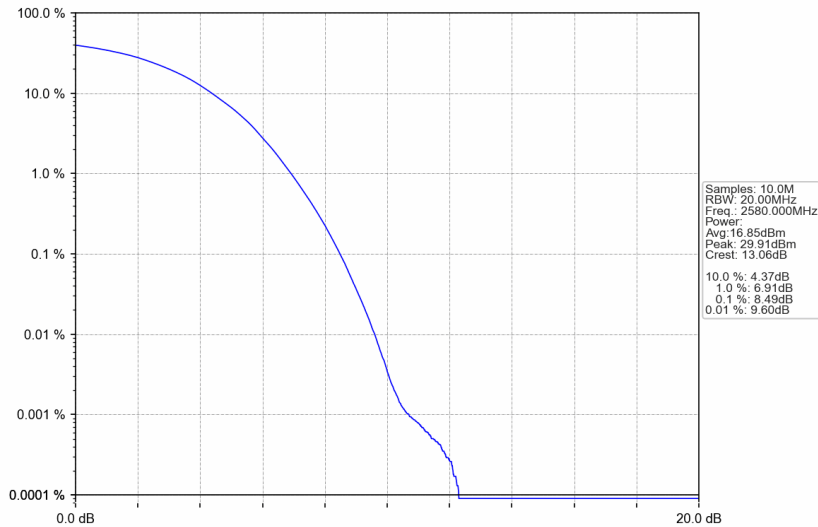
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Band38\_20MHz\_64QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_256QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV



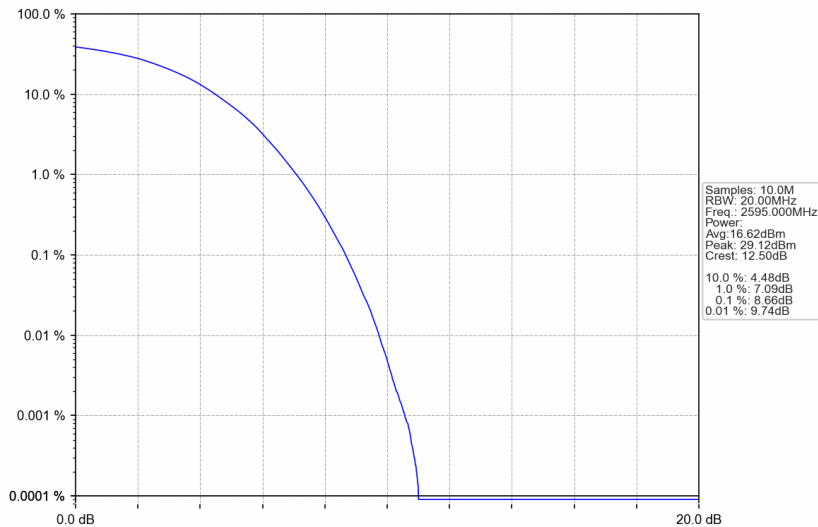
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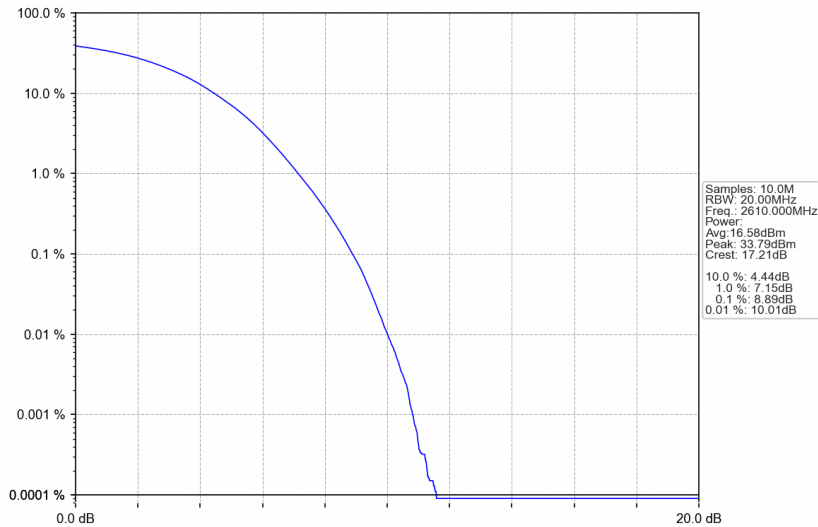
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Band38\_20MHz\_256QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_256QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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## 5. Spurious Emission & Band Edges

### 5.1 B38\_5MHz

#### 5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2595	1	0	Refer To Test Graph	Pass	
		2617.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	2572.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2595	1	0	Refer To Test Graph	Pass	
		2617.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	2572.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2595	1	0	Refer To Test Graph	Pass	
		2617.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
256QAM	2572.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2595	1	0	Refer To Test Graph	Pass	
		2617.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

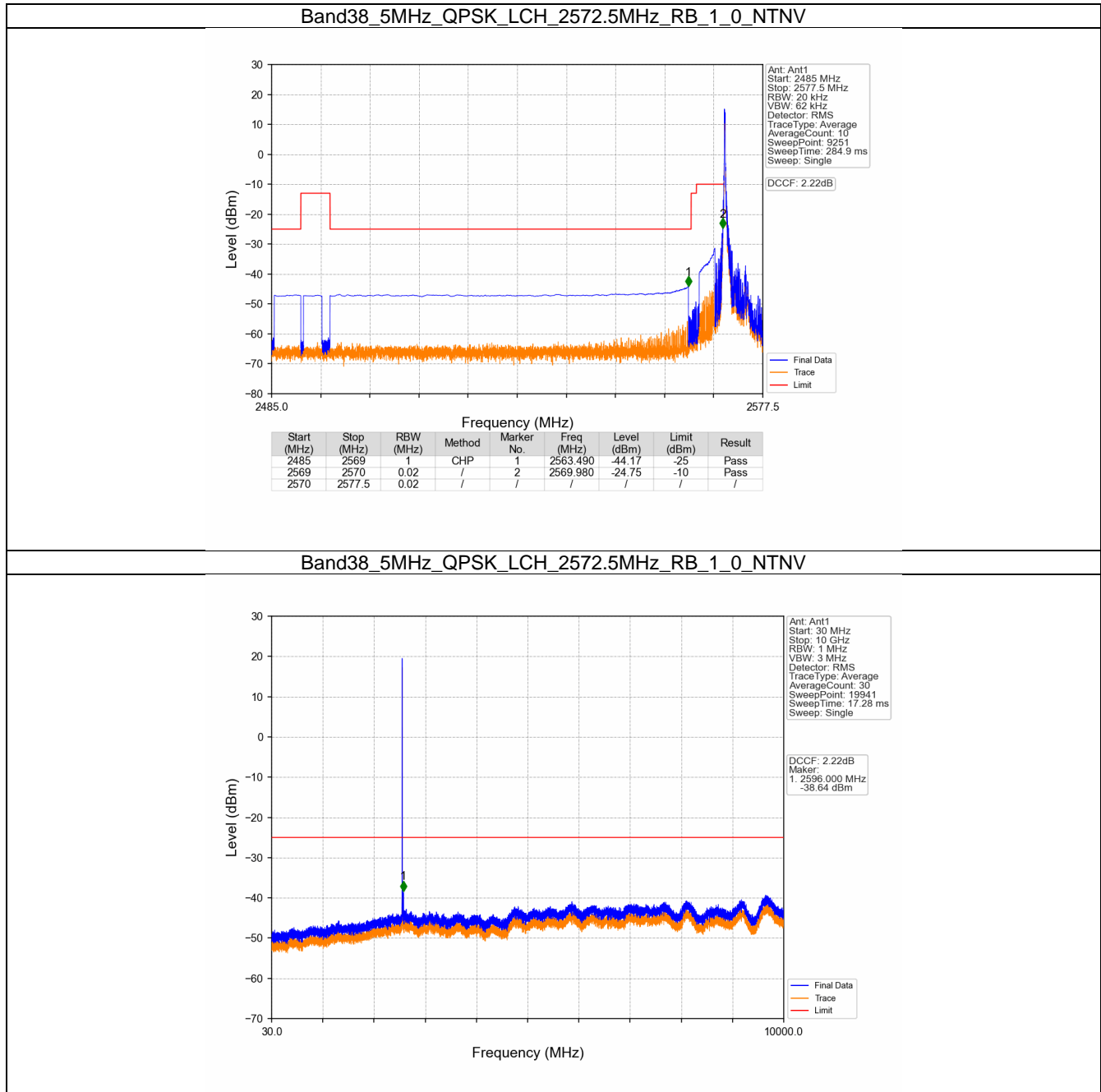


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5.1.2 Test Graph

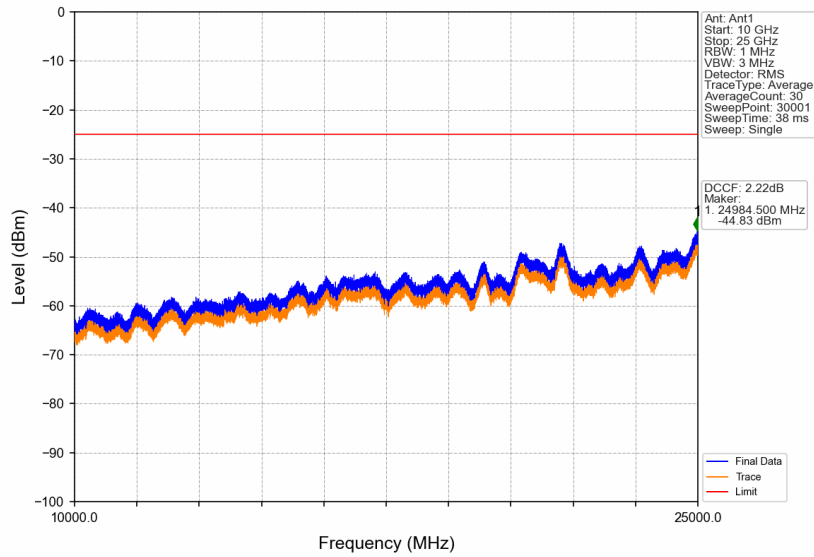


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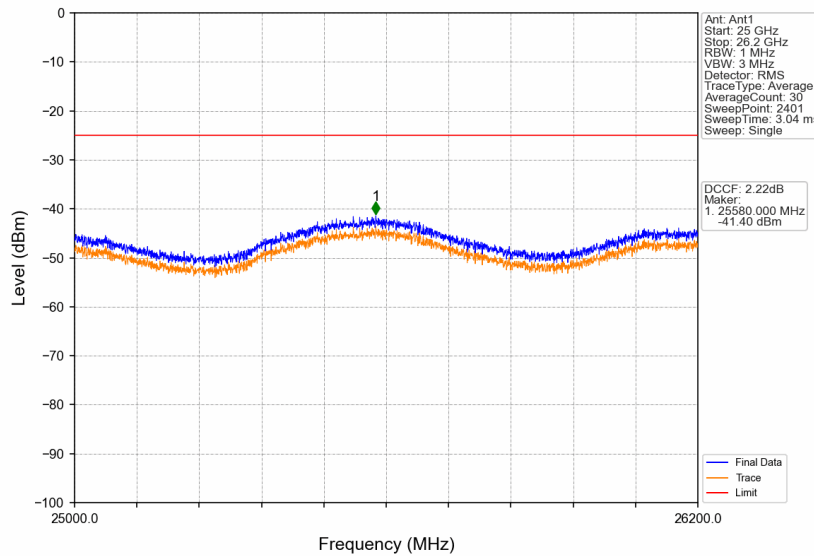
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Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



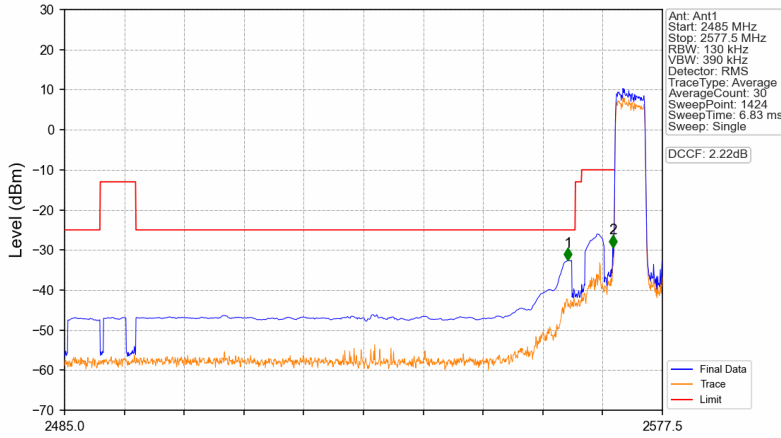
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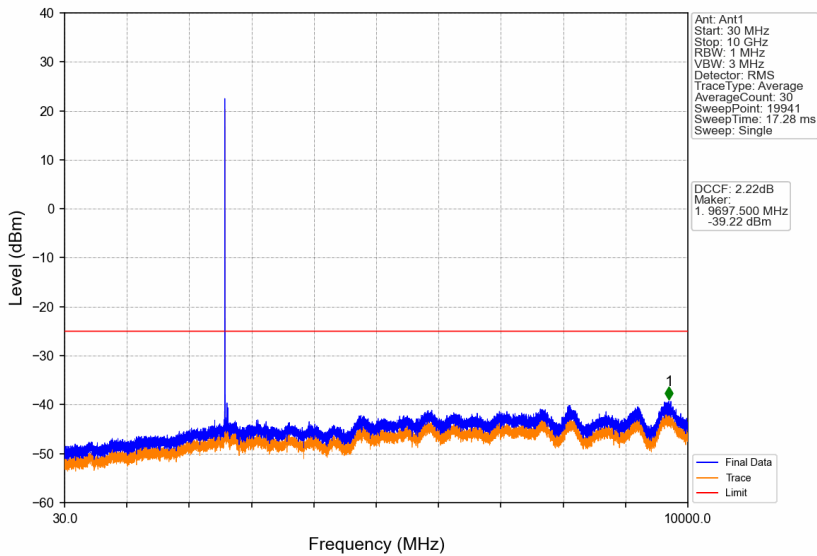
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Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV



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