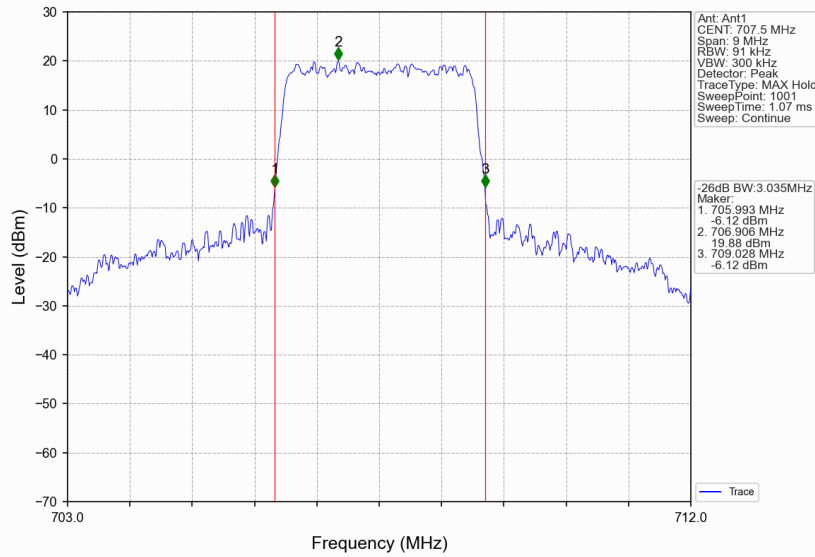
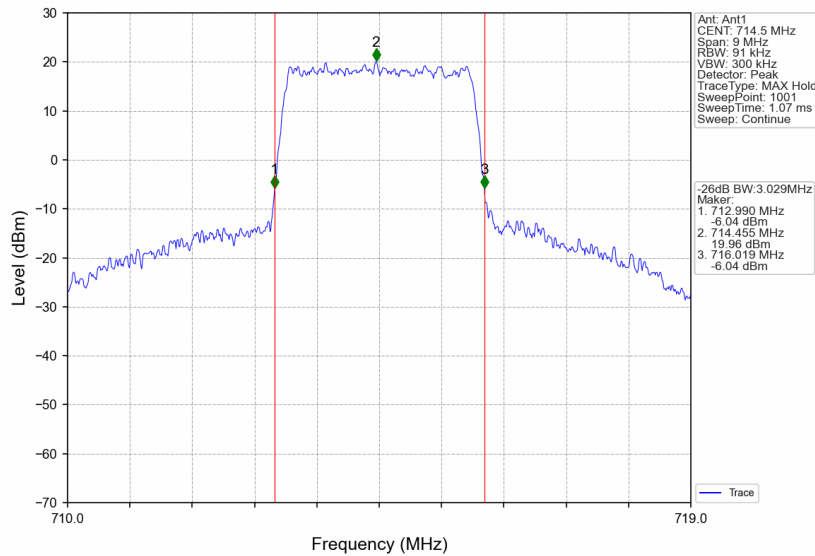


Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



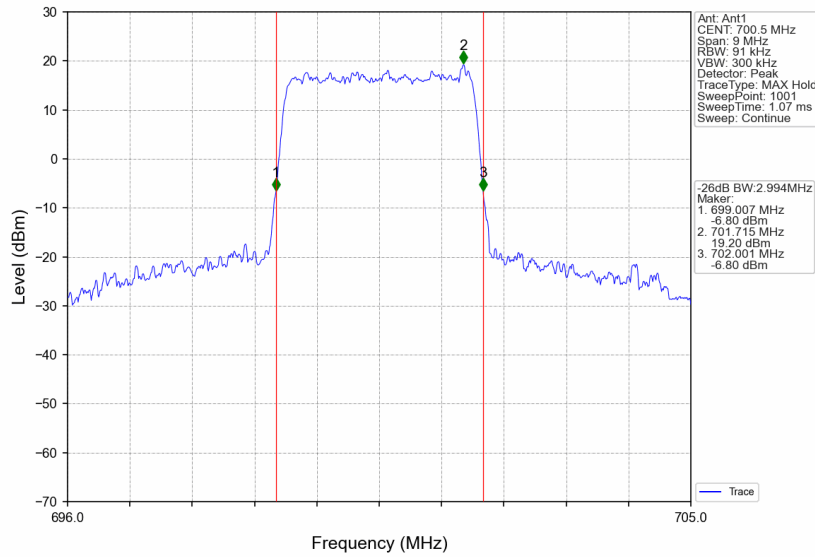
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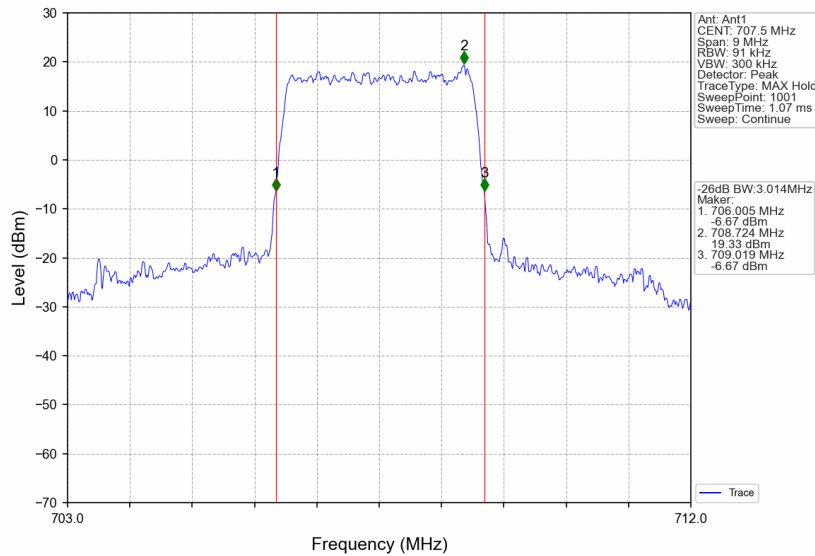
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Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



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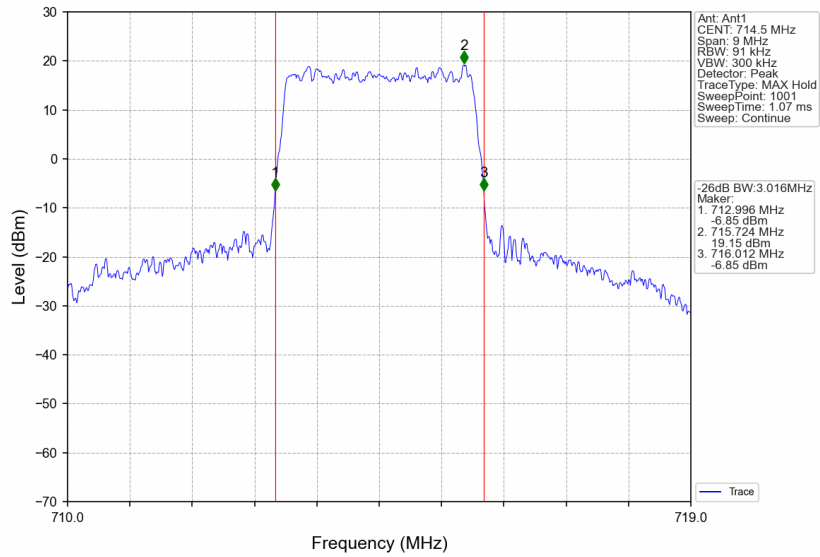
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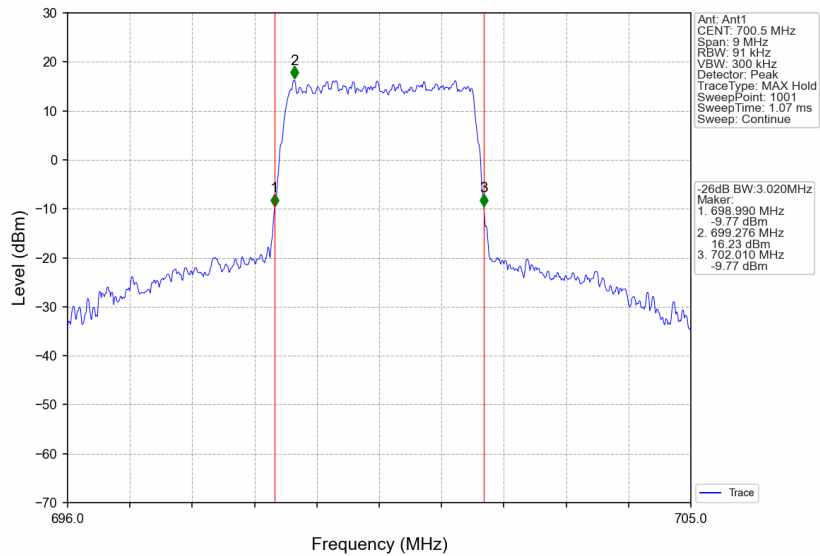
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Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_256QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

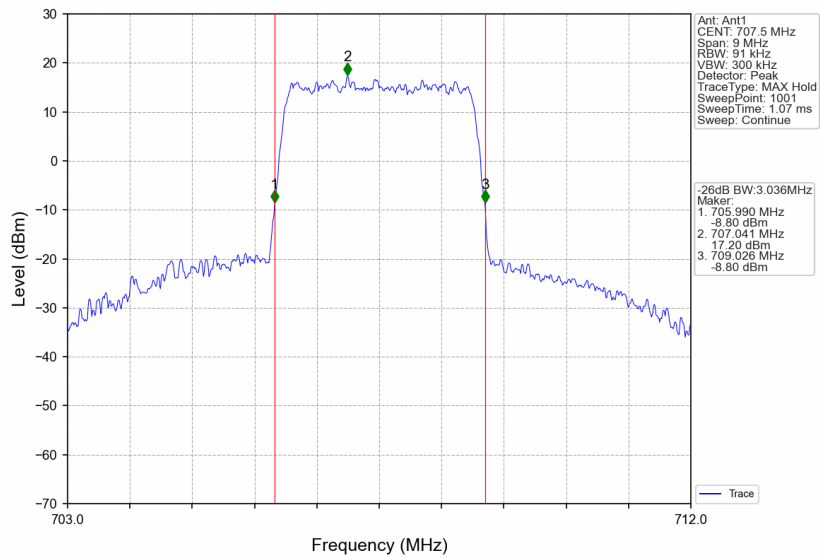


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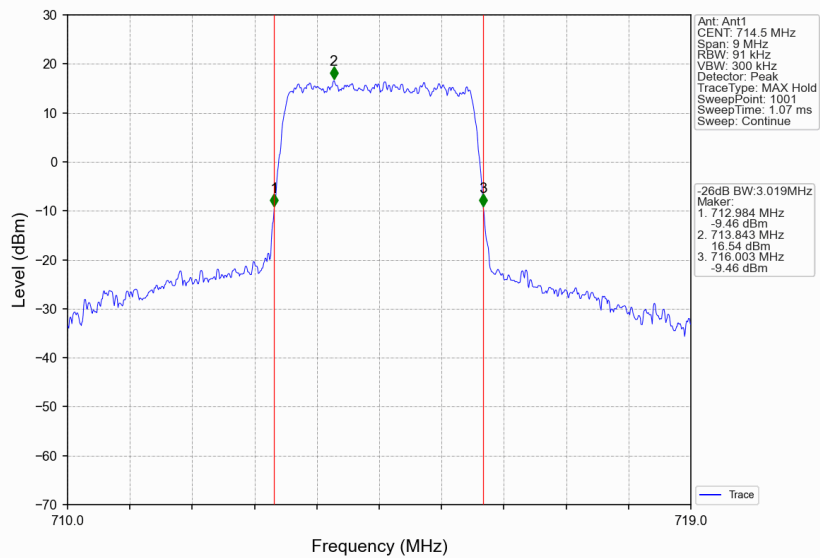
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Band12\_3MHz\_256QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_256QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

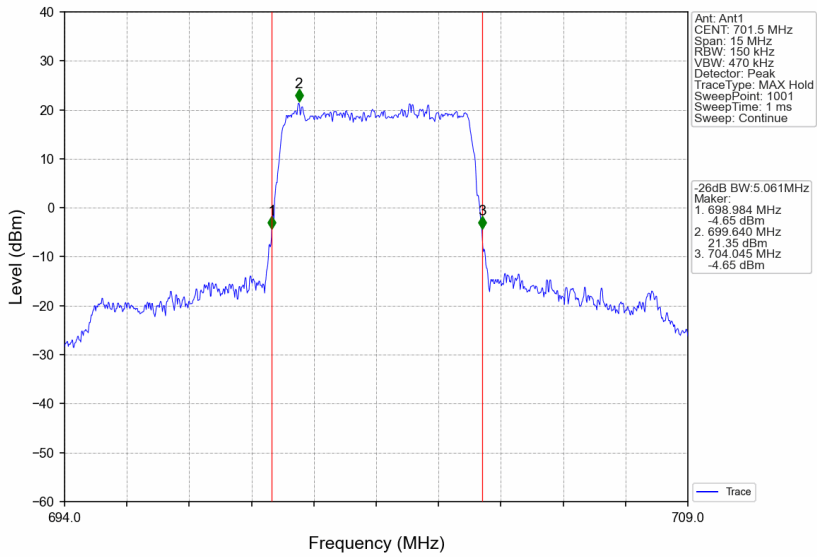


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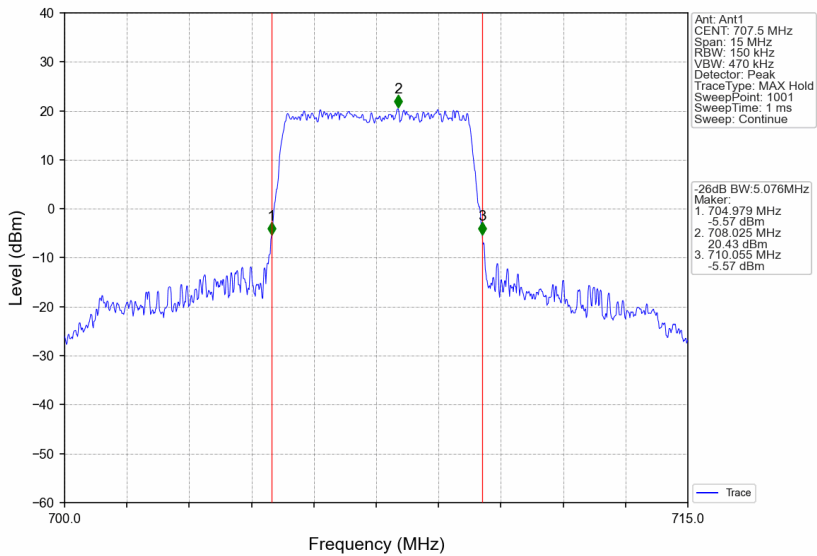
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Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



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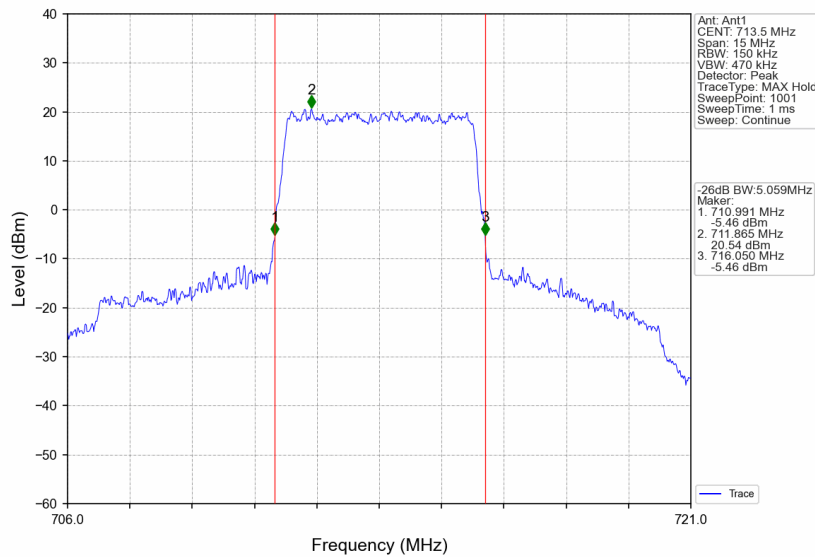
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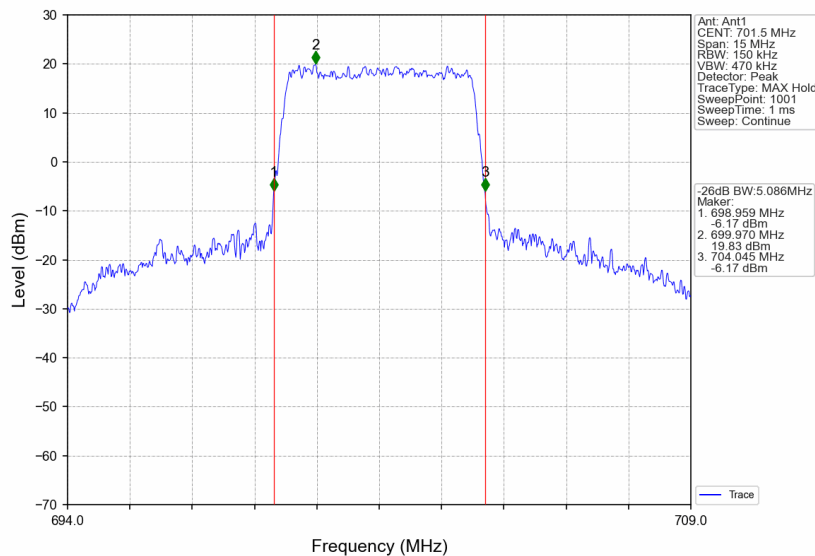
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Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

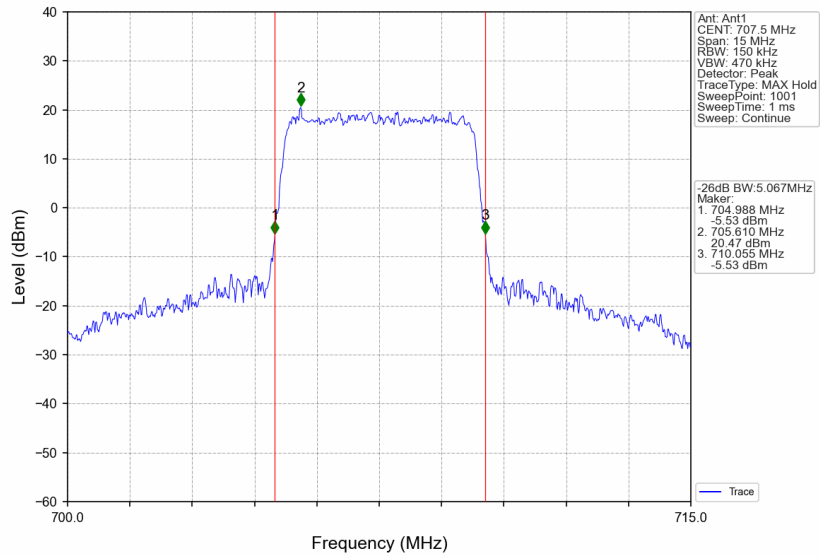


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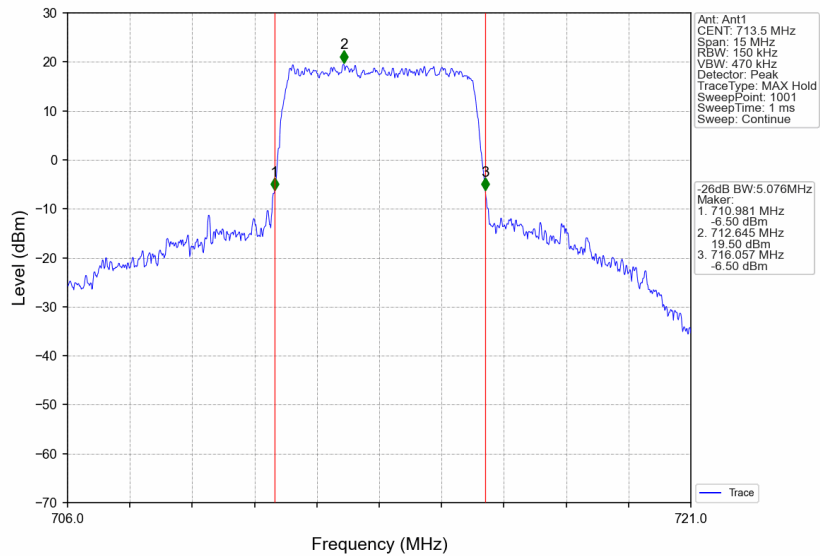
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Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

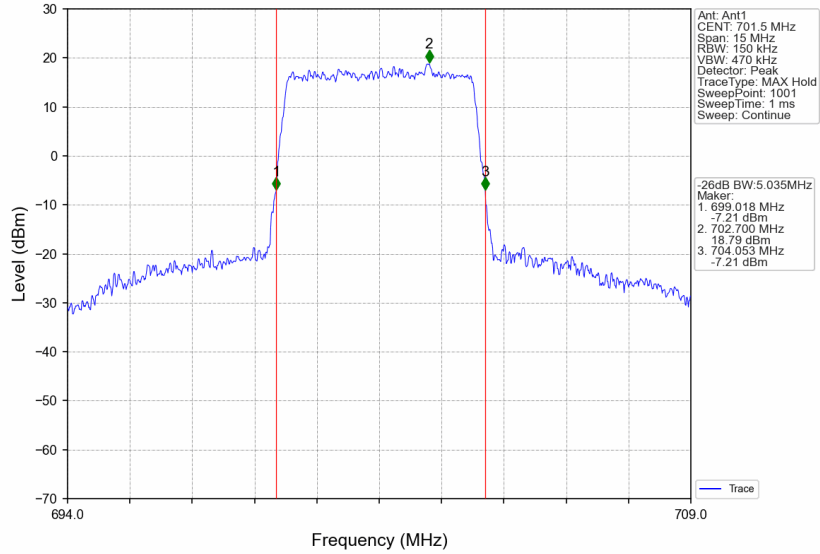


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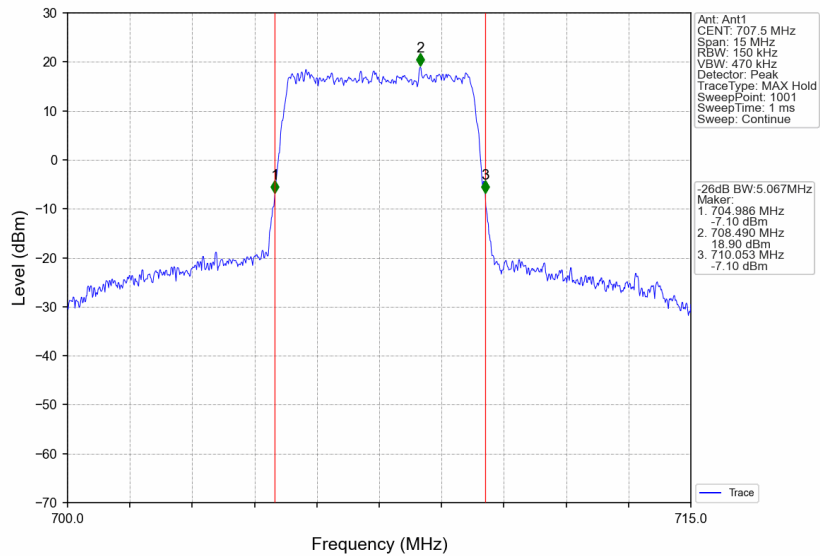
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Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



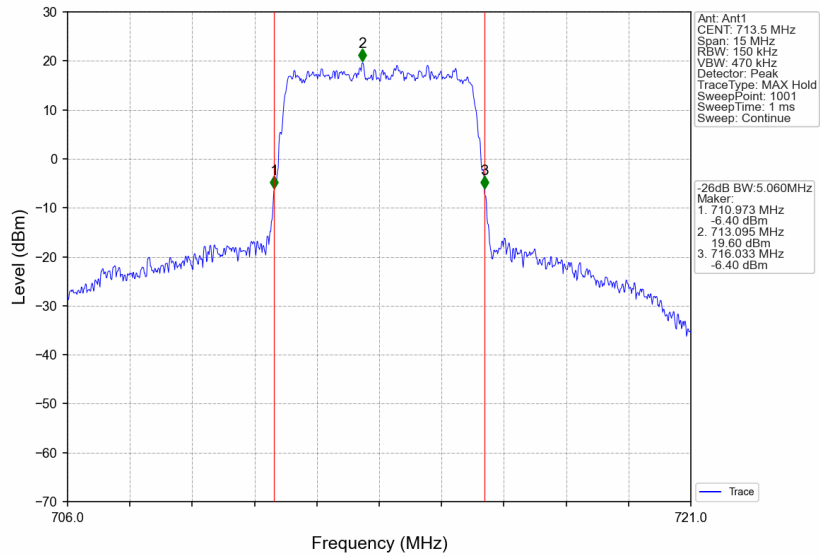
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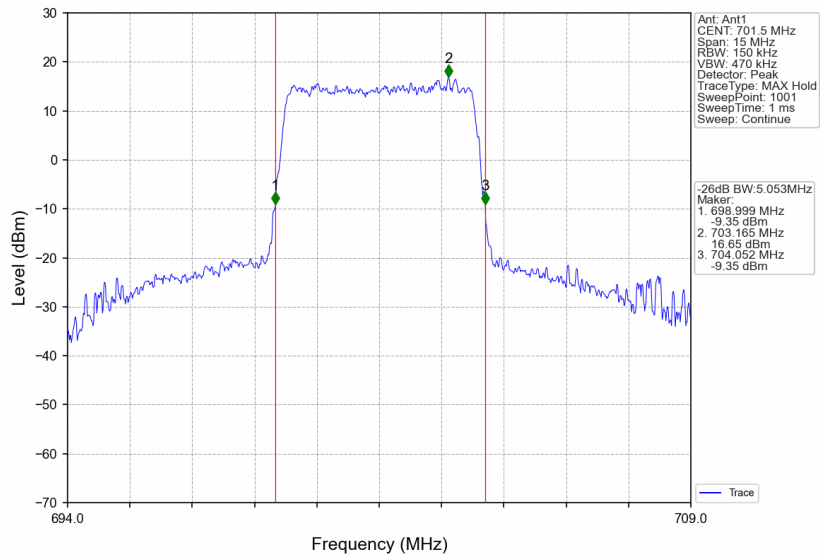
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Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_256QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

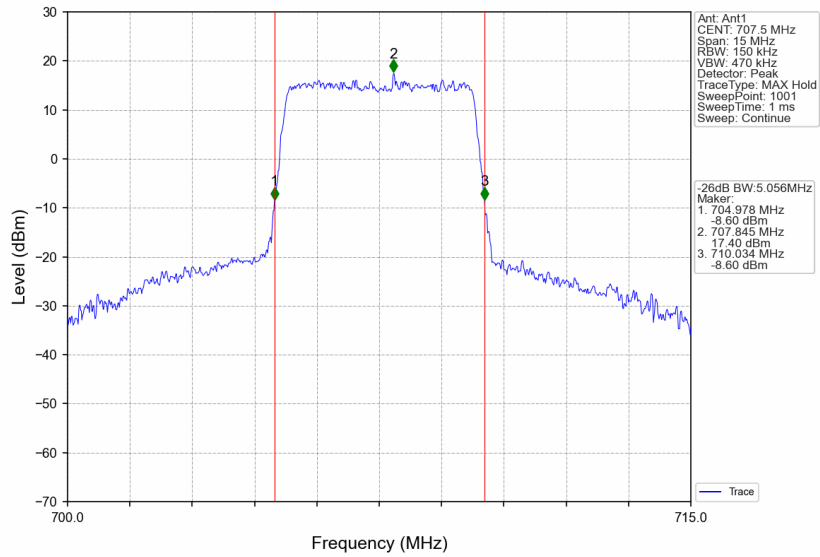


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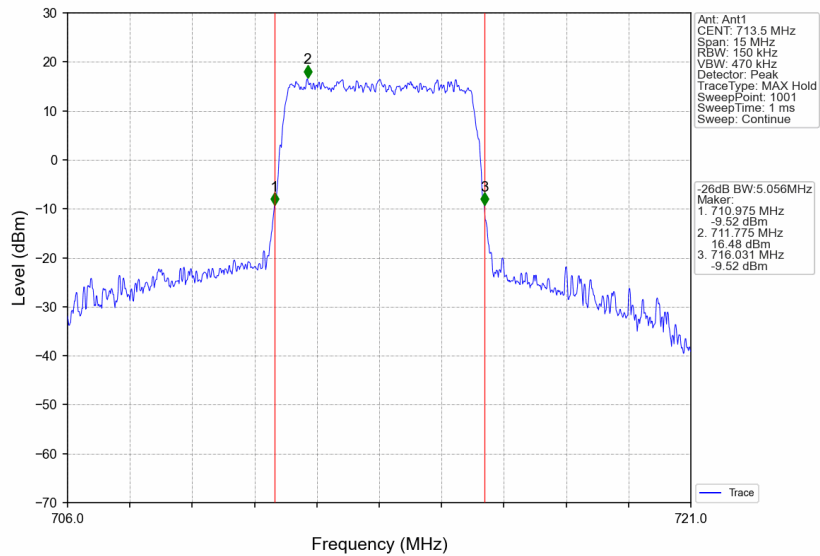
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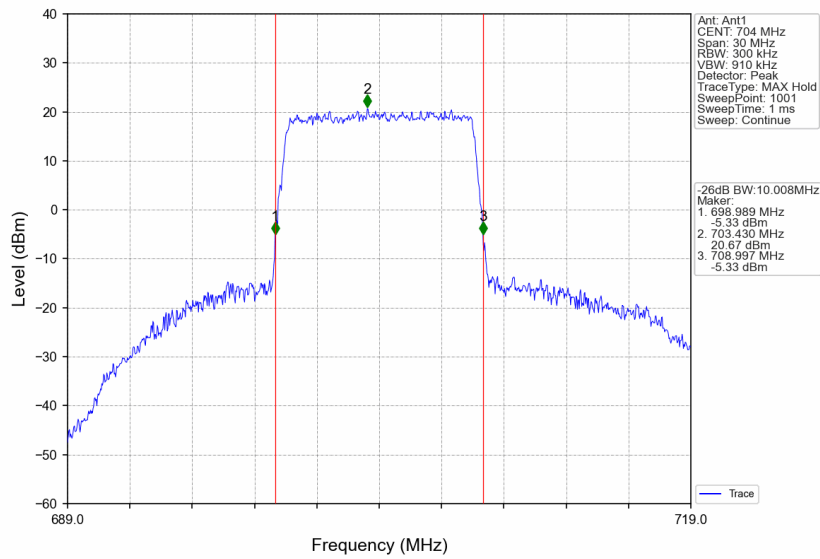
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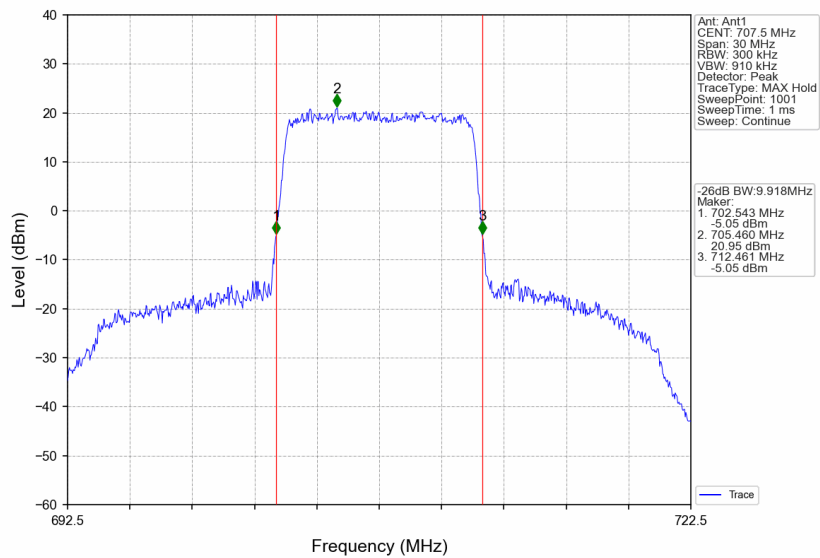
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Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV

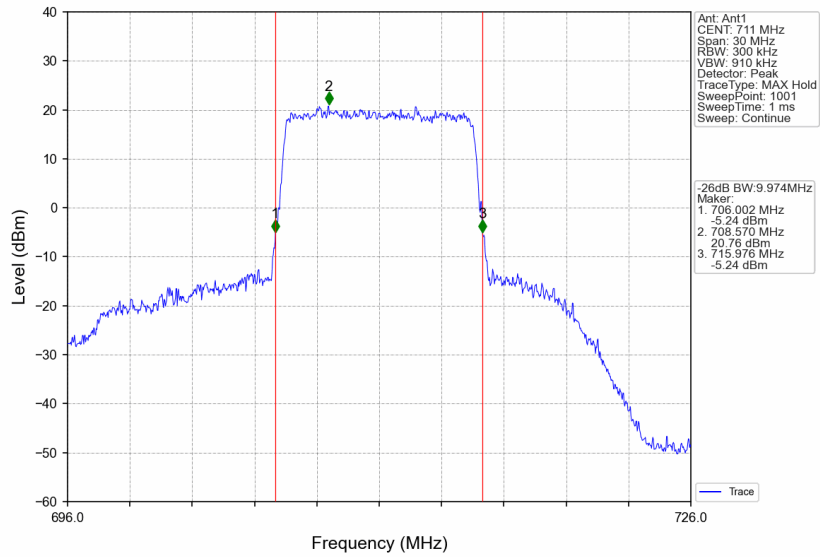


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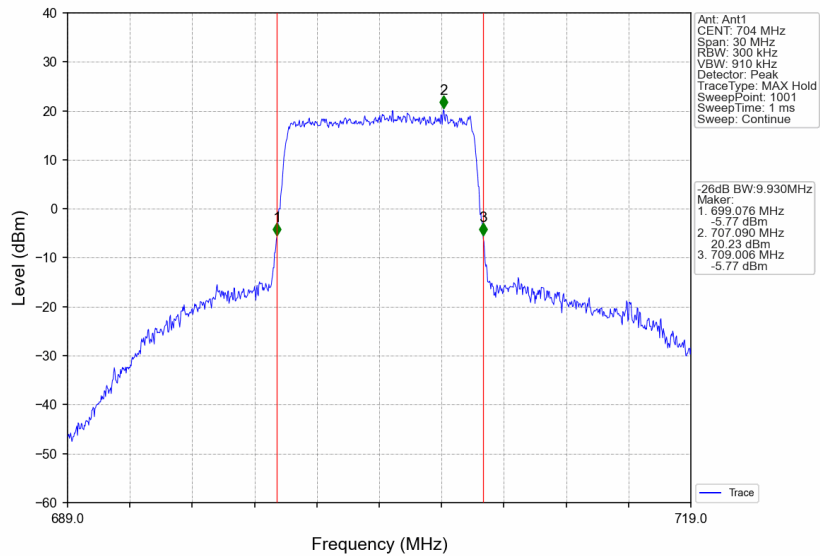
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Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

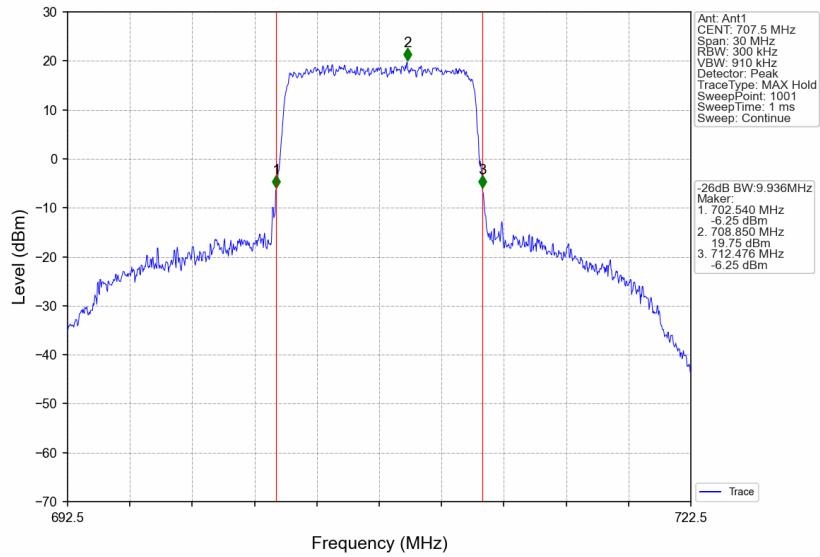


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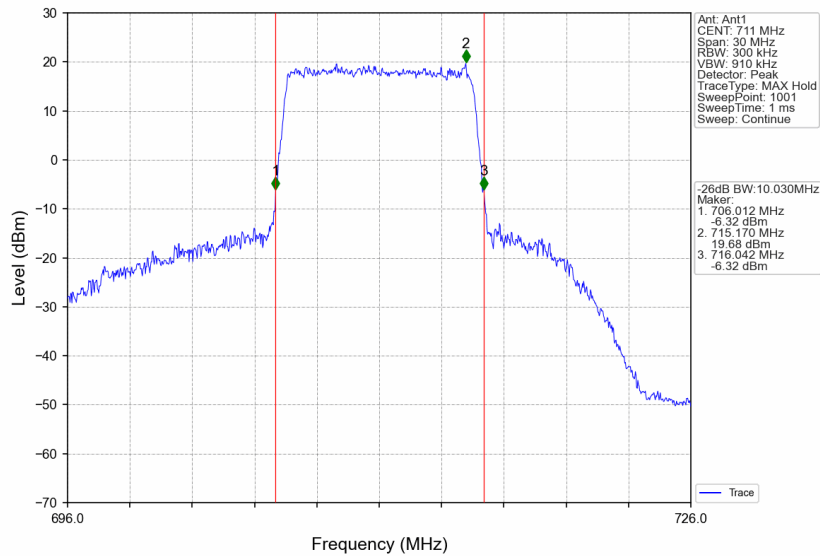
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Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

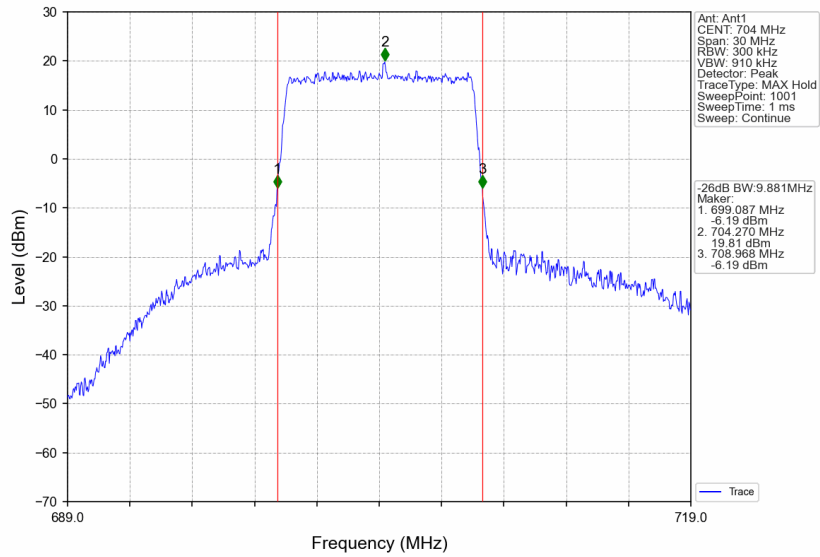


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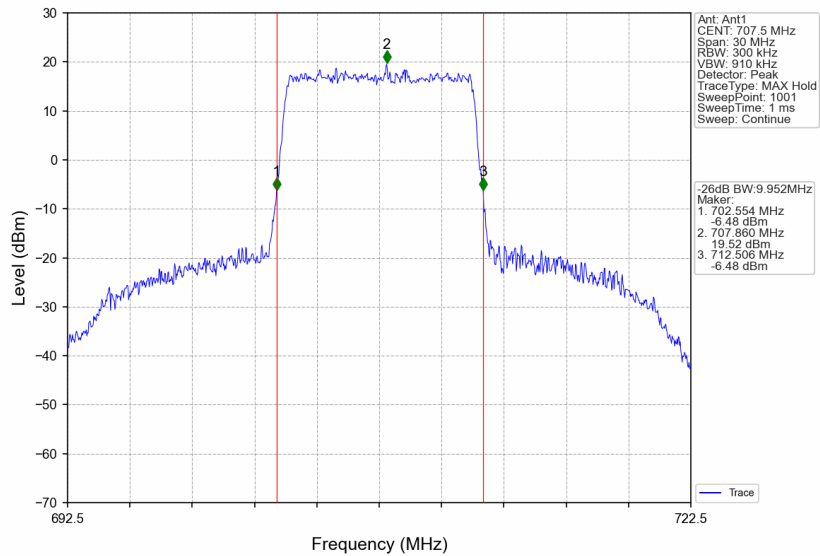
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Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



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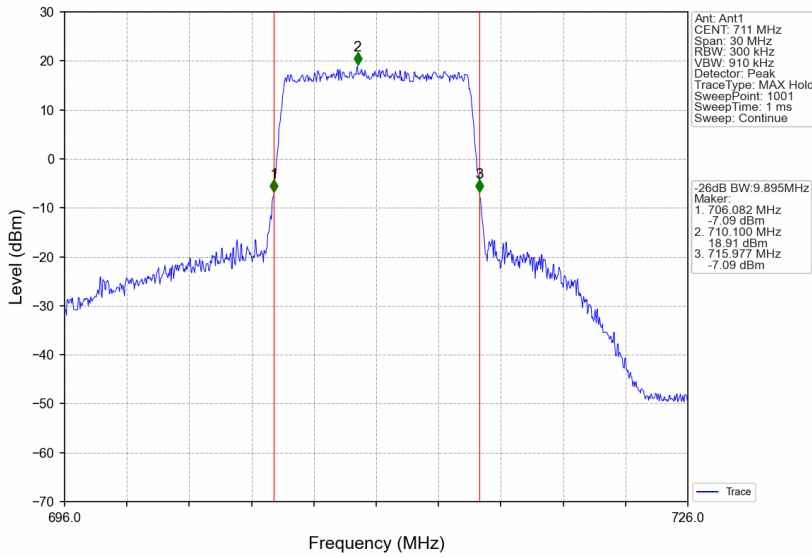
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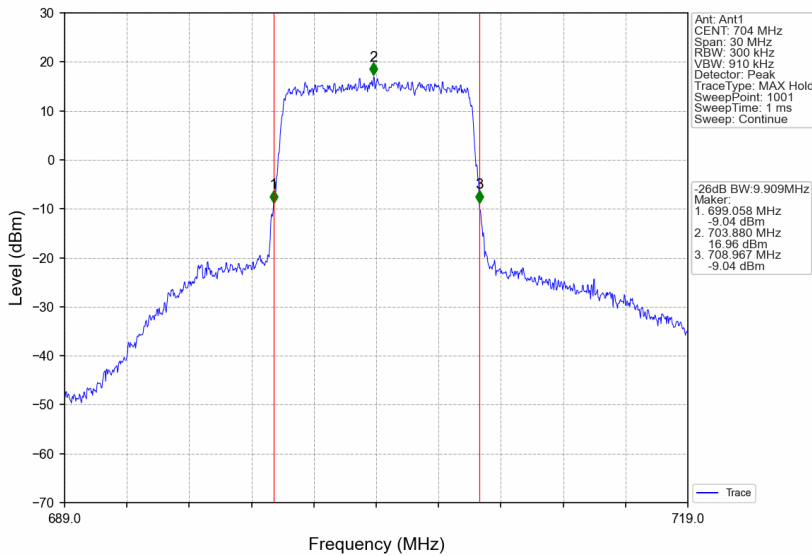
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Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_256QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



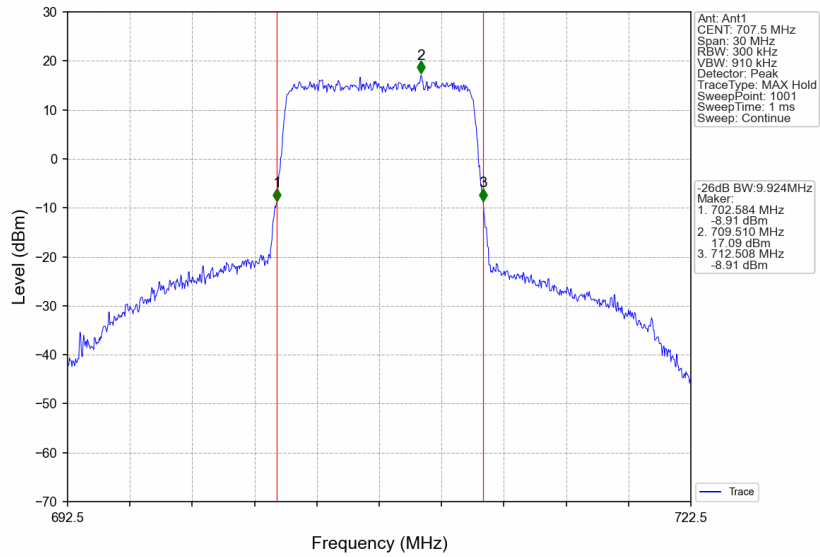
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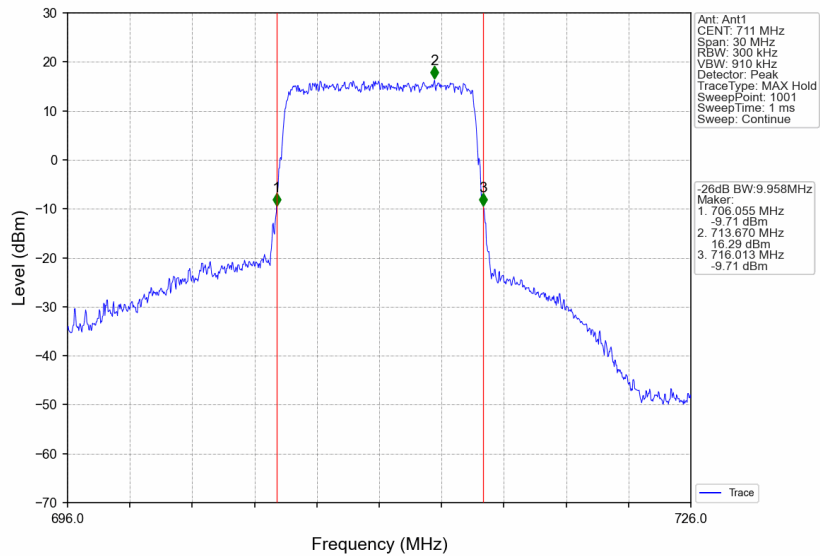
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Band12\_10MHz\_256QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_256QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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## 4. Peak-Average Ratio

### 4.1 B12\_1.4MHz

#### 4.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.76	<=13	Pass
	707.5	6	0	4.82	<=13	Pass
	715.3	6	0	4.01	<=13	Pass
16QAM	699.7	6	0	5.64	<=13	Pass
	707.5	6	0	5.66	<=13	Pass
	715.3	6	0	4.87	<=13	Pass
64QAM	699.7	6	0	6.41	<=13	Pass
	707.5	6	0	6.20	<=13	Pass
	715.3	6	0	5.74	<=13	Pass
256QAM	699.7	6	0	6.98	<=13	Pass
	707.5	6	0	6.83	<=13	Pass
	715.3	6	0	6.69	<=13	Pass

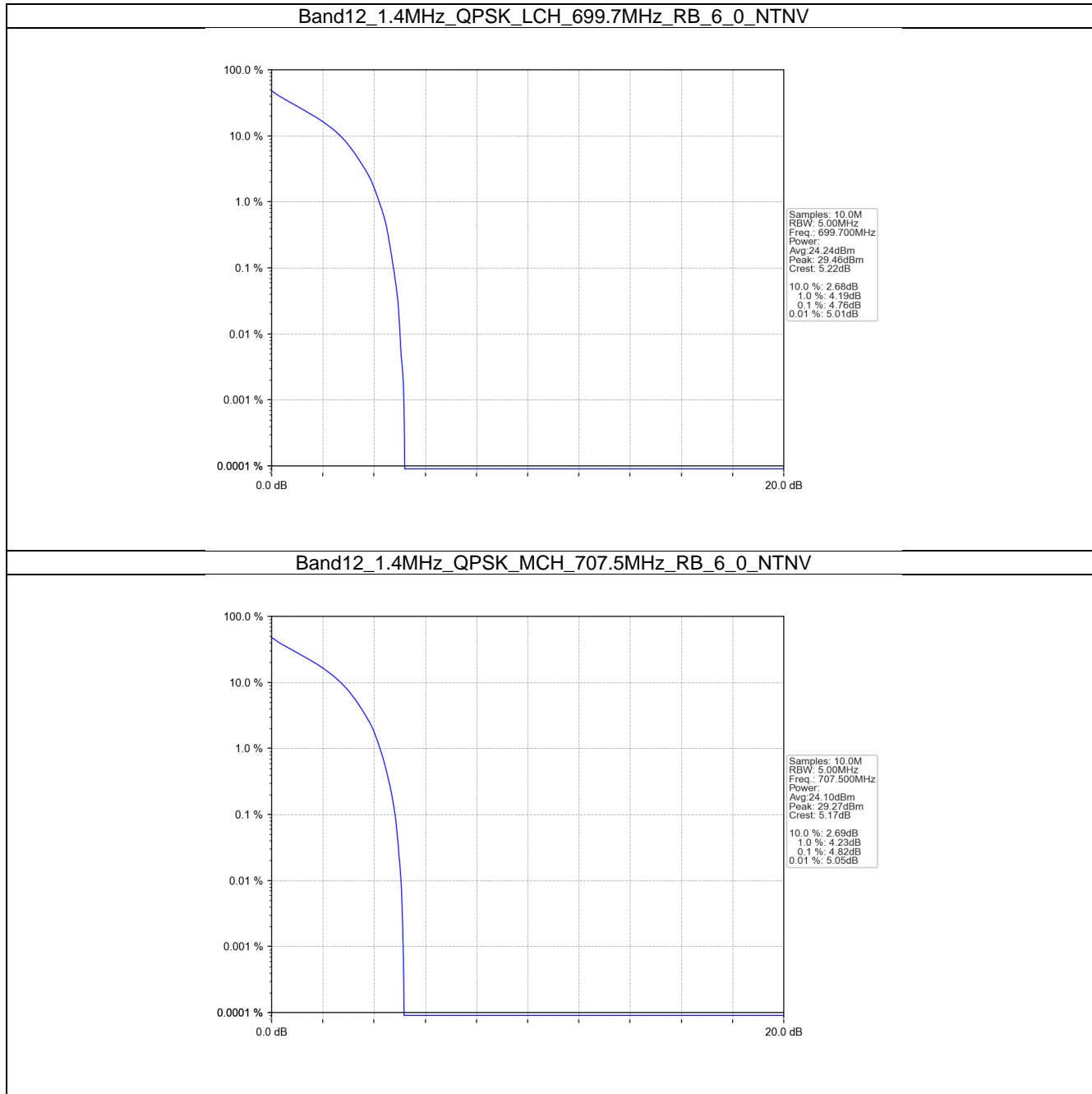


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4.1.2 Test Graph

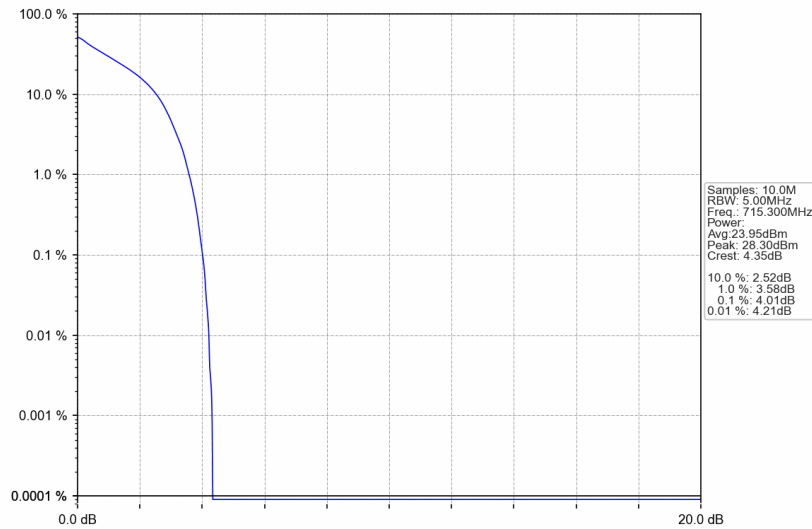


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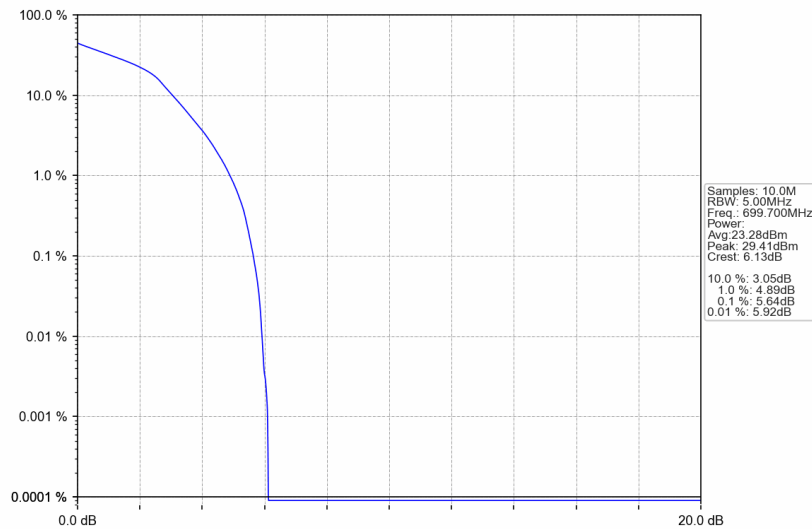
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Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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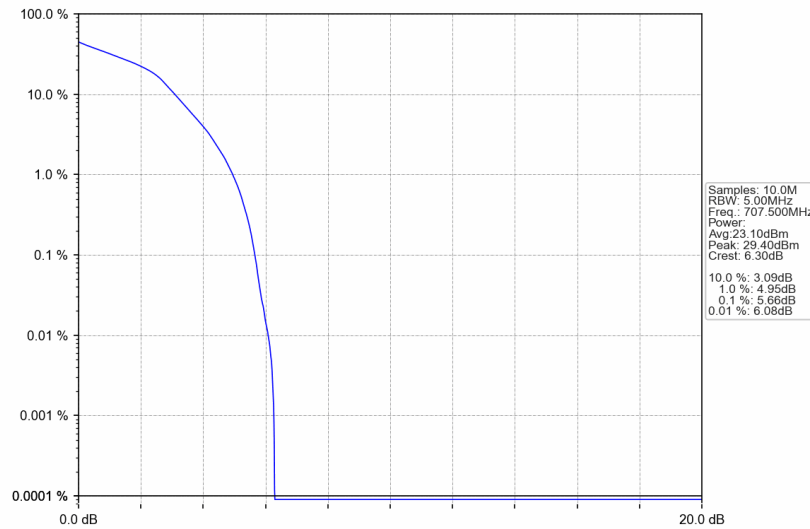
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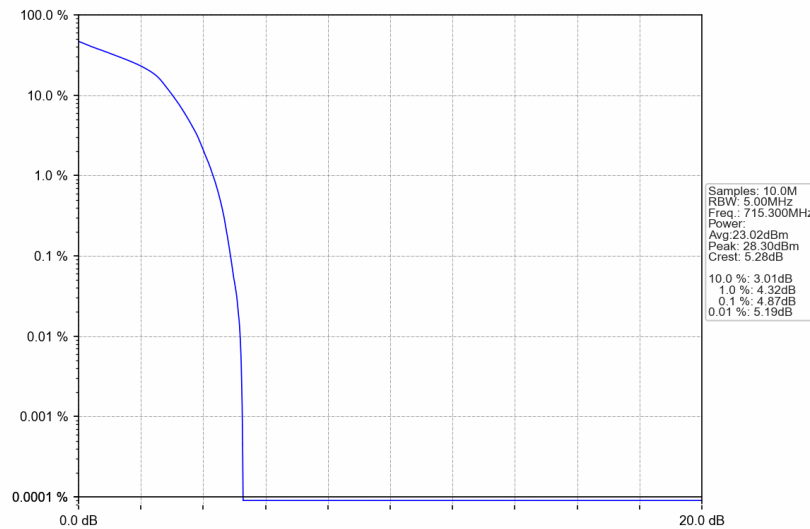
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Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



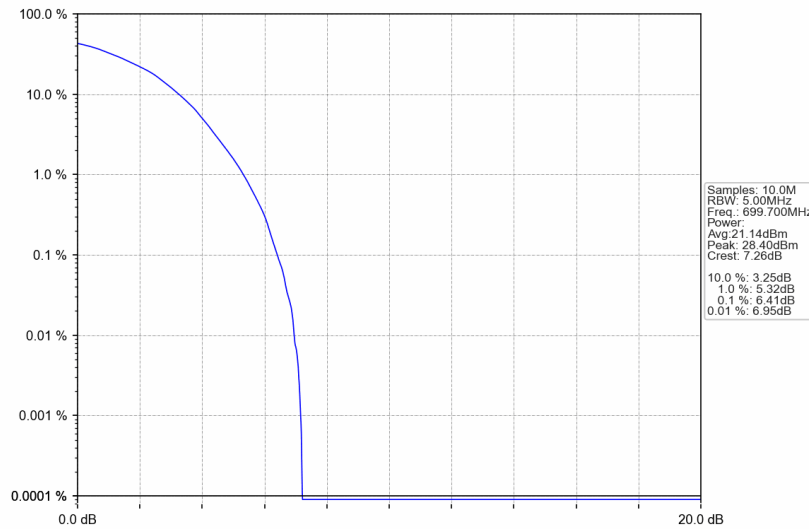
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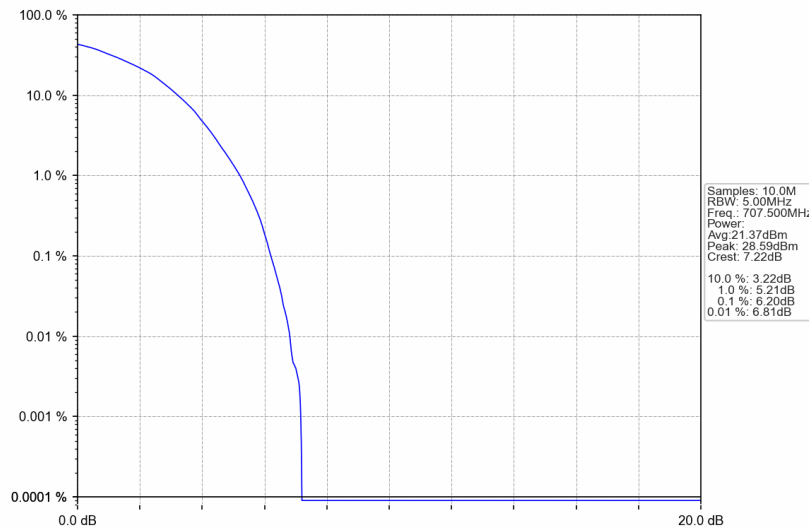
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Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



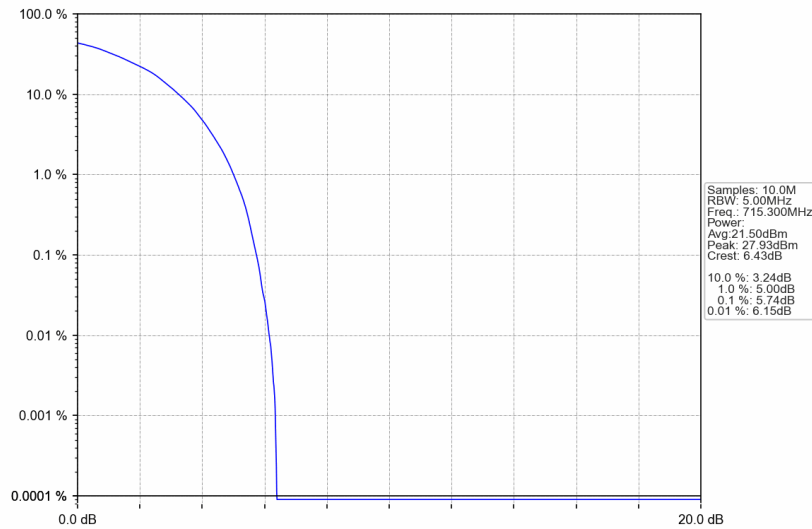
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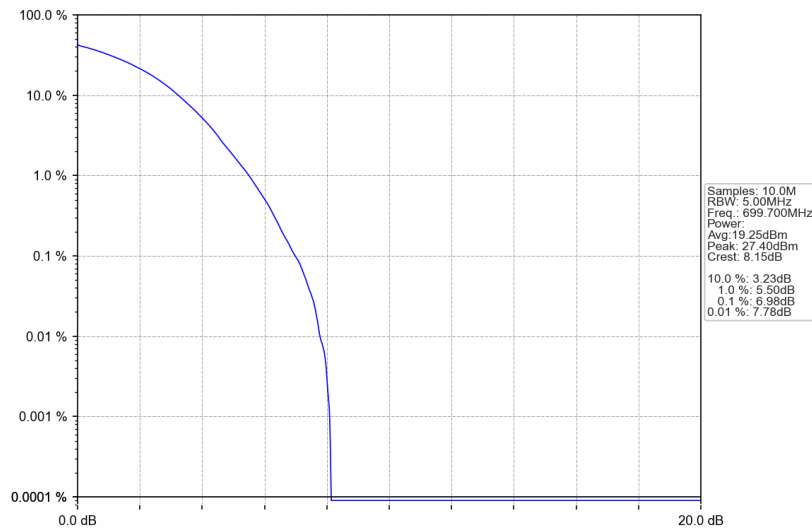
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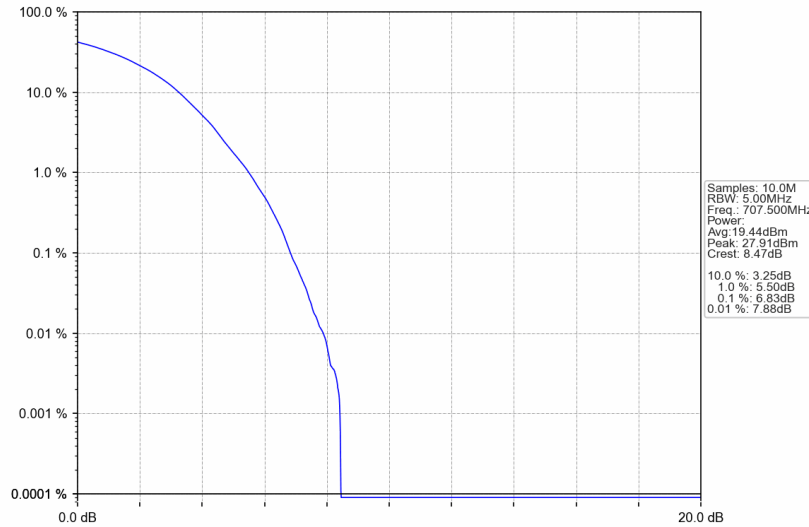


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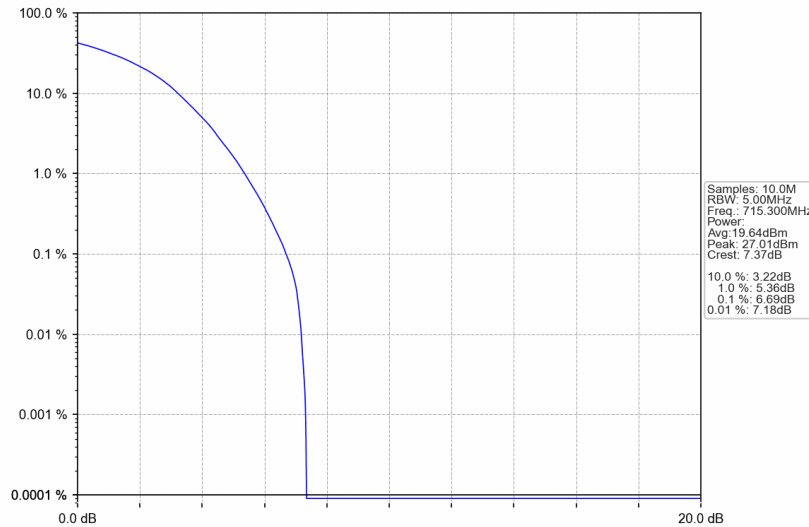
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Band12\_1.4MHz\_256QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_256QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



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Report No.: SEWM2311000456RG01  
 Rev.: 01  
 Page: 81 of 164

4.2 B12\_3MHz

4.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.15	<=13	Pass
	707.5	15	0	5.11	<=13	Pass
	714.5	15	0	4.55	<=13	Pass
16QAM	700.5	15	0	5.96	<=13	Pass
	707.5	15	0	5.95	<=13	Pass
	714.5	15	0	5.39	<=13	Pass
64QAM	700.5	15	0	6.47	<=13	Pass
	707.5	15	0	6.51	<=13	Pass
	714.5	15	0	6.02	<=13	Pass
256QAM	700.5	15	0	6.93	<=13	Pass
	707.5	15	0	6.94	<=13	Pass
	714.5	15	0	6.72	<=13	Pass



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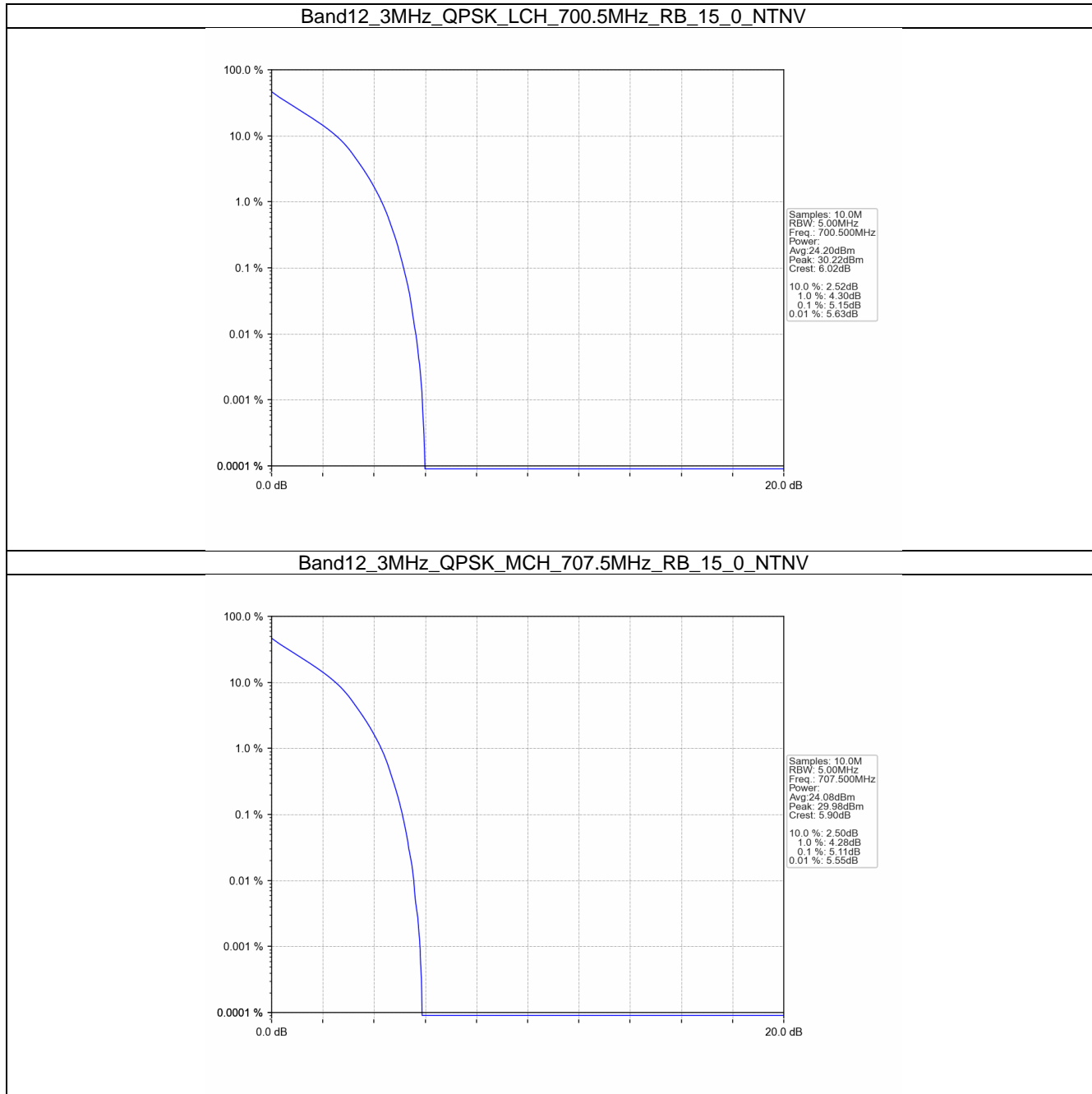
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4.2.2 Test Graph

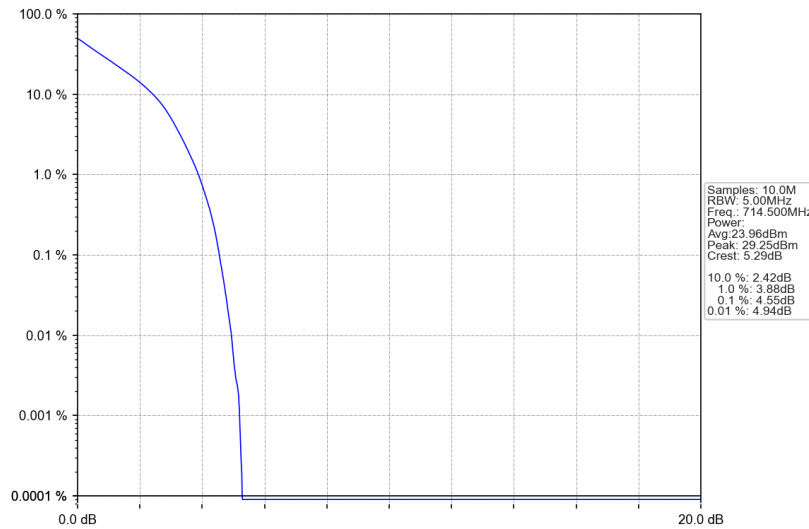


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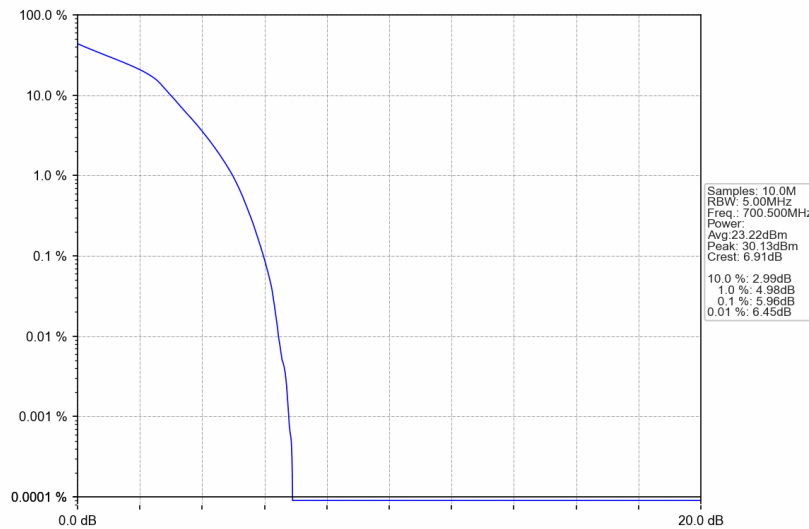
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Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



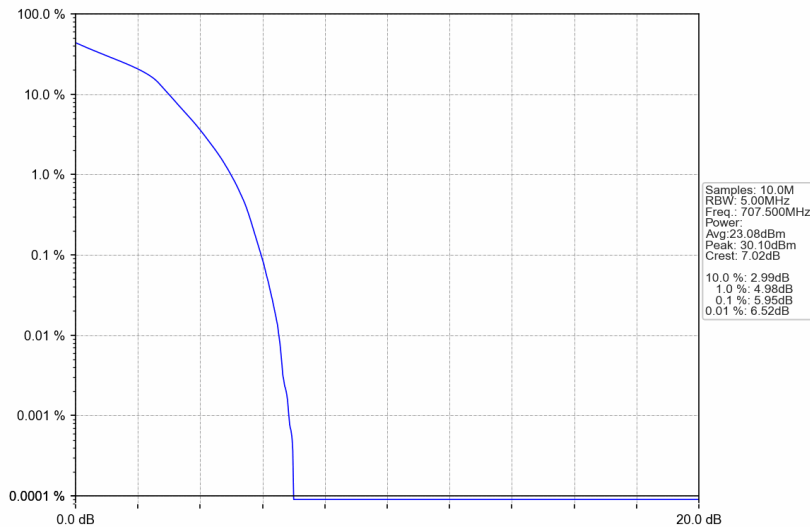
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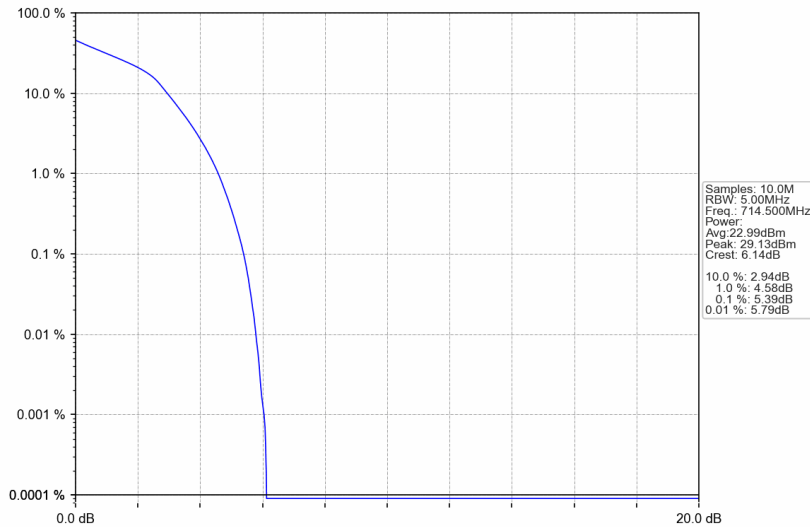
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Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



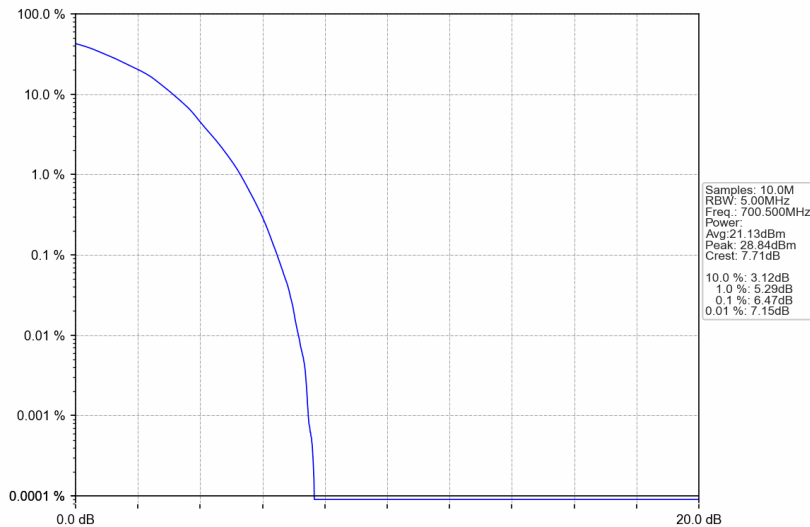
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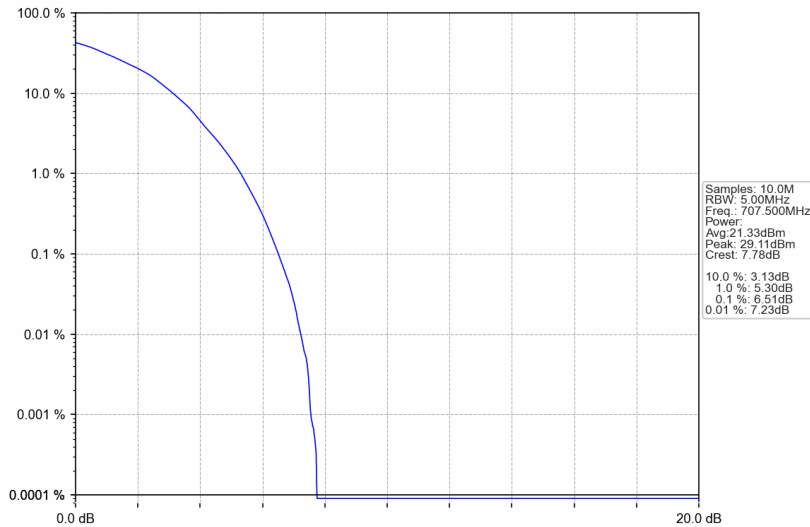
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Band12\_3MHz\_64QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



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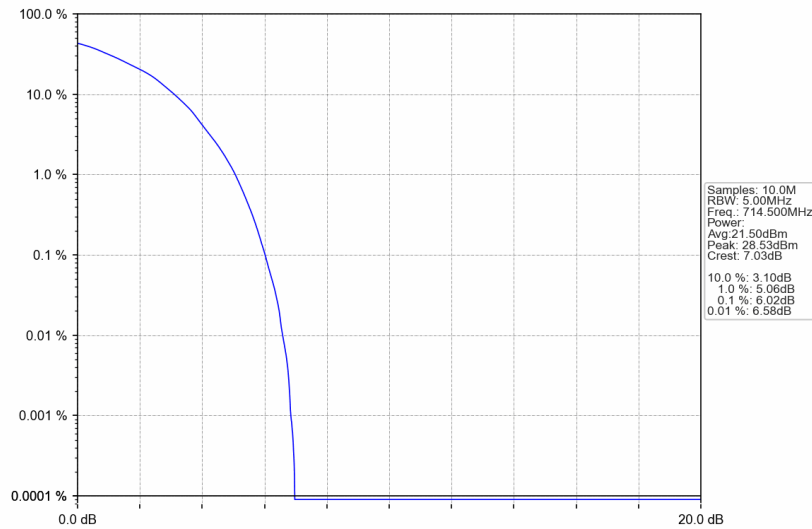
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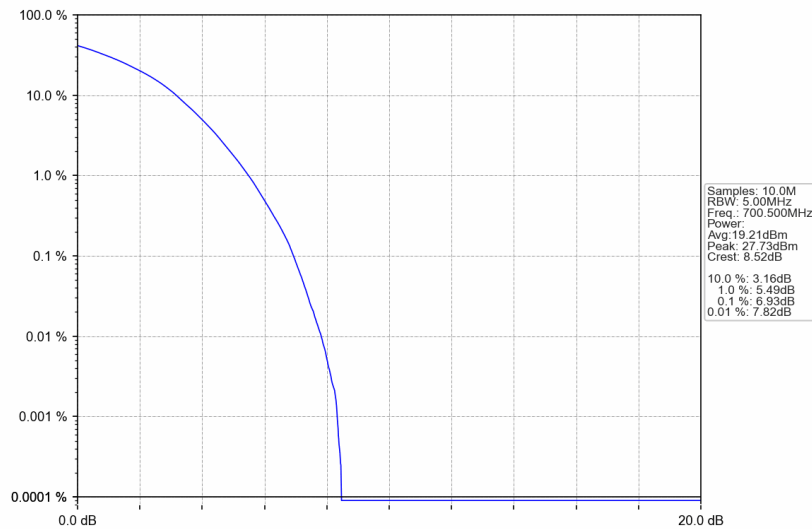
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Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_256QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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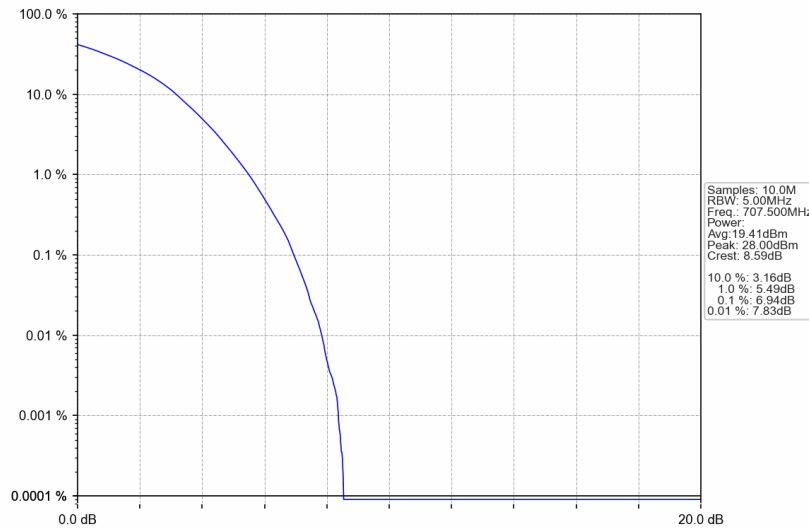
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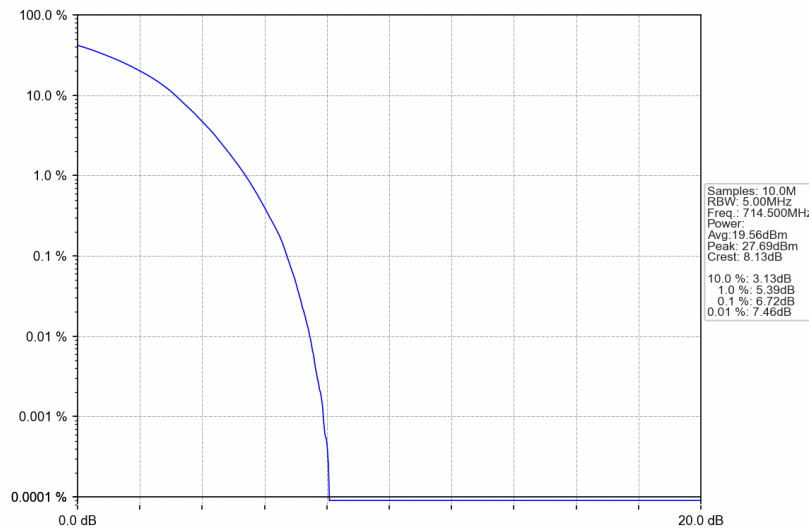
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Band12\_3MHz\_256QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



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Report No.: SEWM2311000456RG01  
 Rev.: 01  
 Page: 88 of 164

### 4.3 B12\_5MHz

#### 4.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.33	<=13	Pass
	707.5	25	0	5.33	<=13	Pass
	713.5	25	0	4.98	<=13	Pass
16QAM	701.5	25	0	6.07	<=13	Pass
	707.5	25	0	6.06	<=13	Pass
	713.5	25	0	5.76	<=13	Pass
64QAM	701.5	25	0	6.52	<=13	Pass
	707.5	25	0	6.55	<=13	Pass
	713.5	25	0	6.22	<=13	Pass
256QAM	701.5	25	0	6.96	<=13	Pass
	707.5	25	0	6.97	<=13	Pass
	713.5	25	0	6.81	<=13	Pass

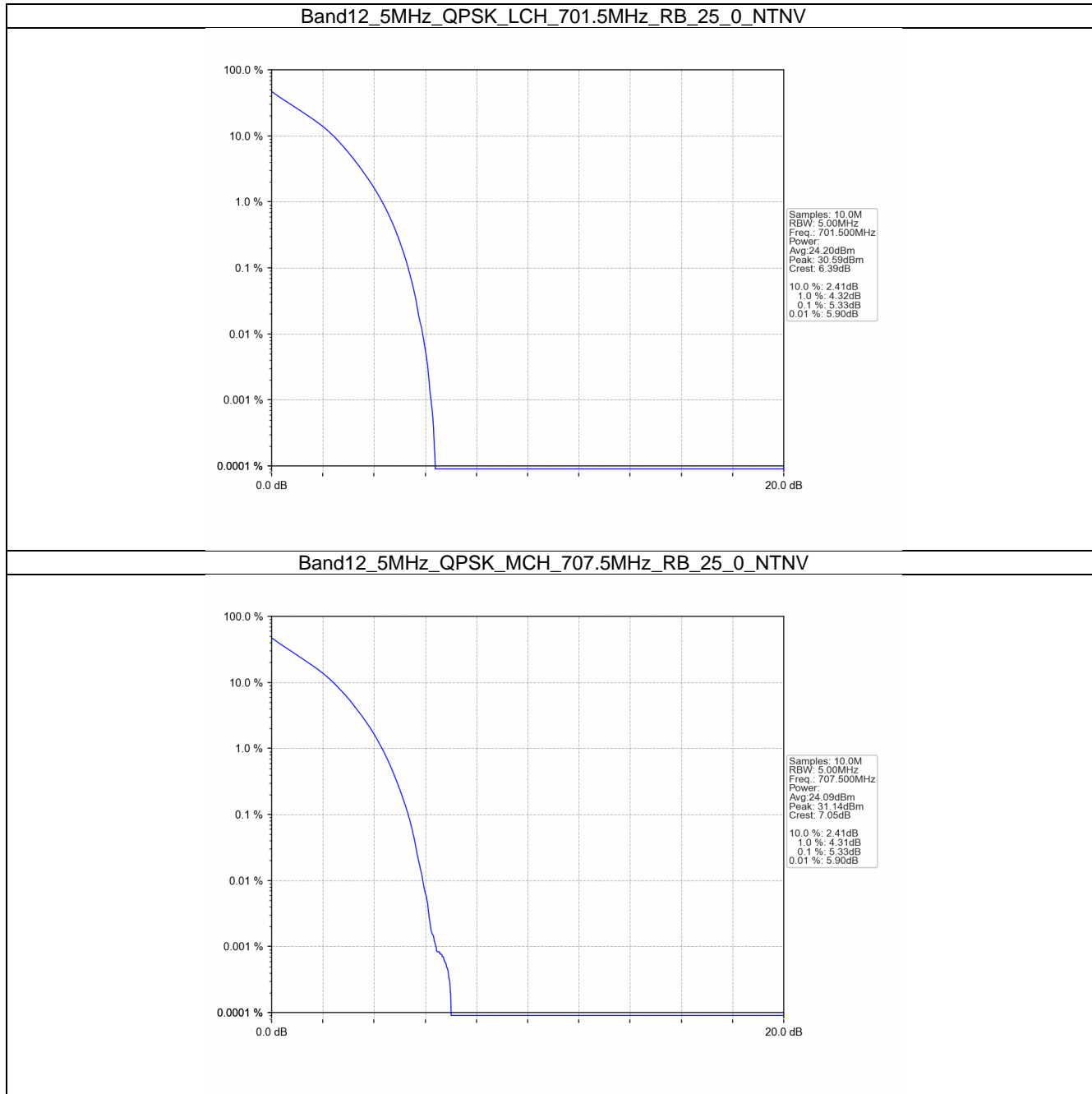


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4.3.2 Test Graph



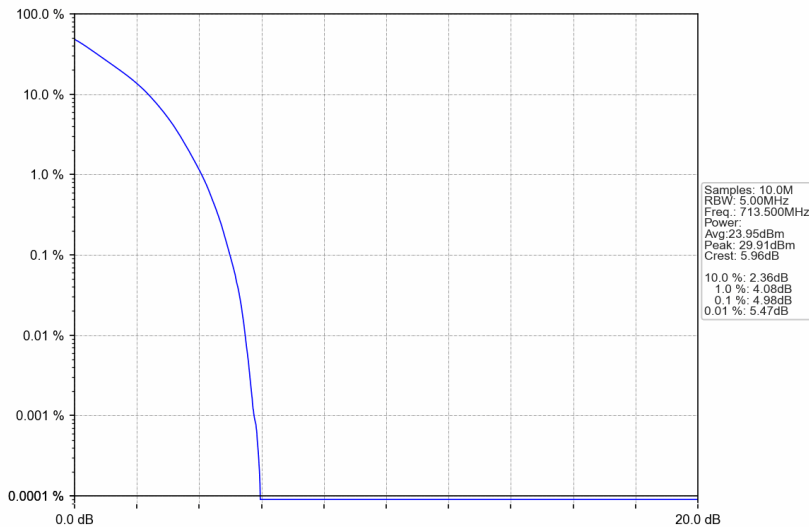
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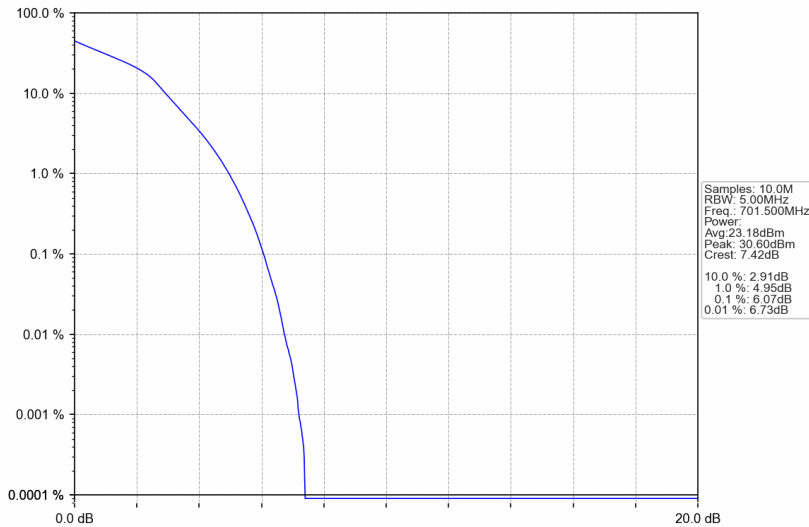
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Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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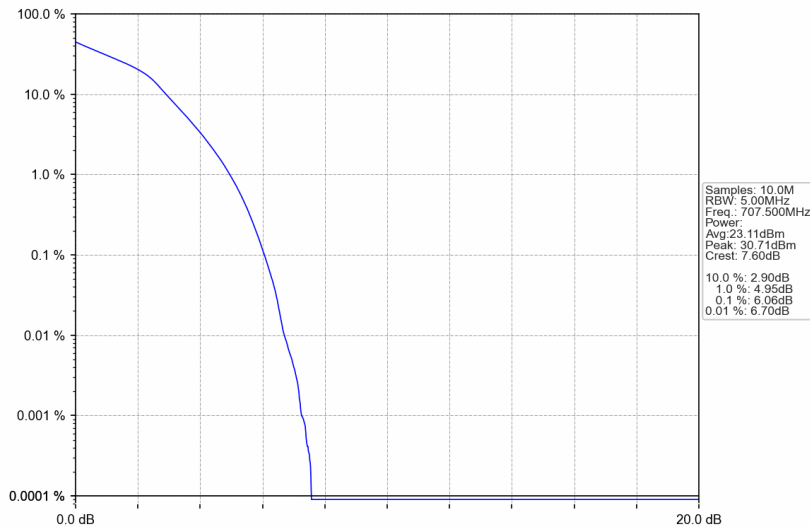
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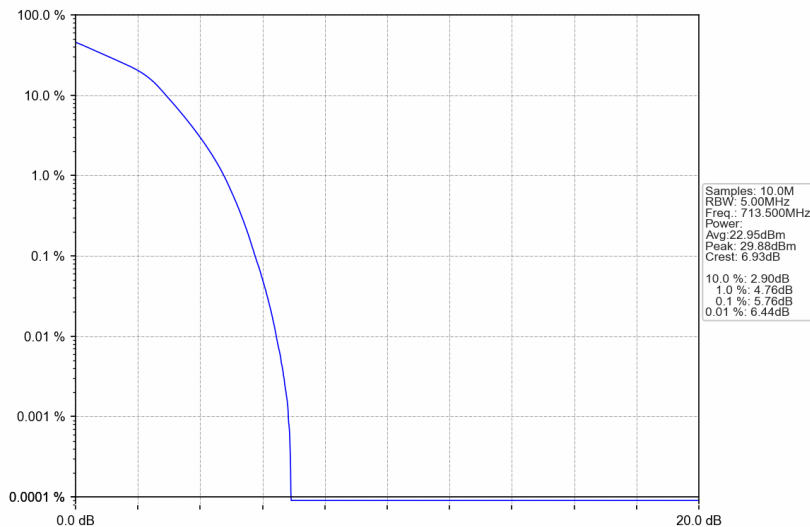
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Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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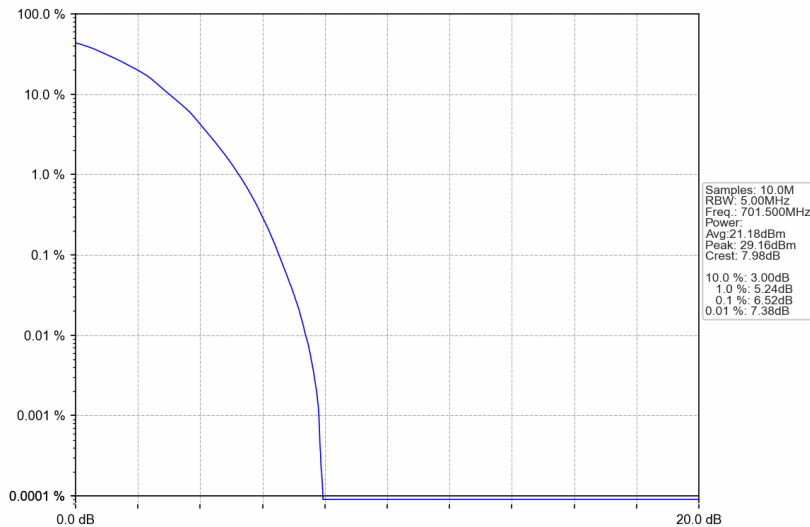
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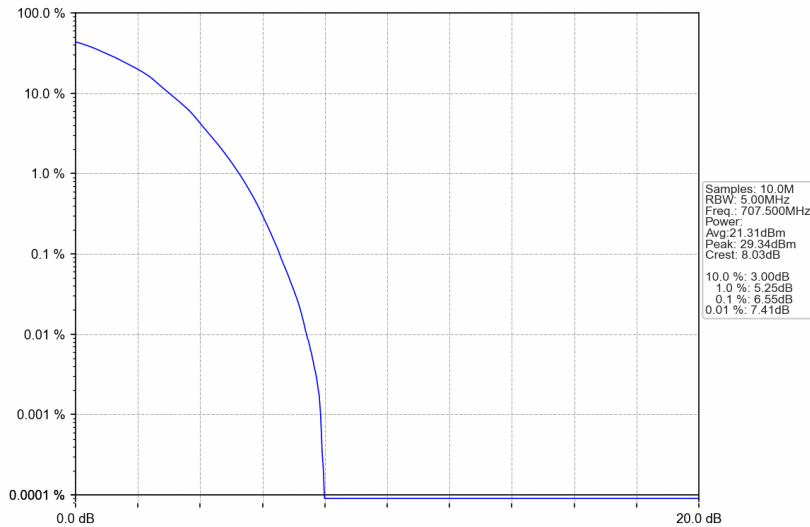
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Band12\_5MHz\_64QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_64QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



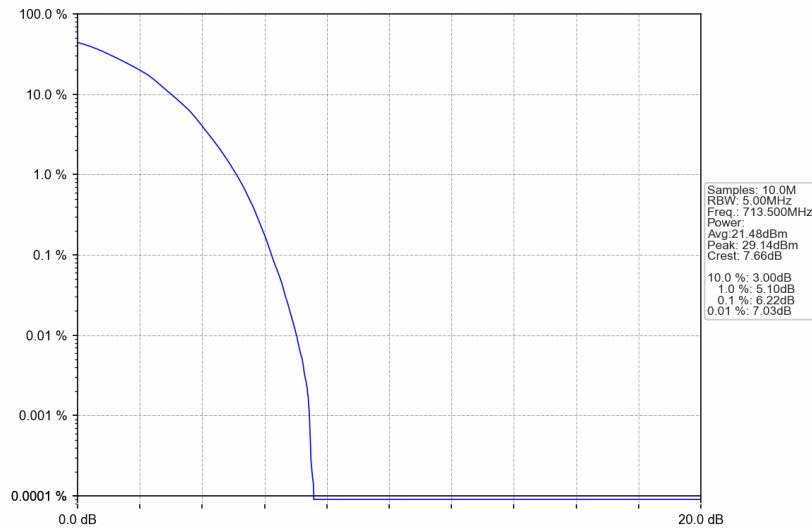
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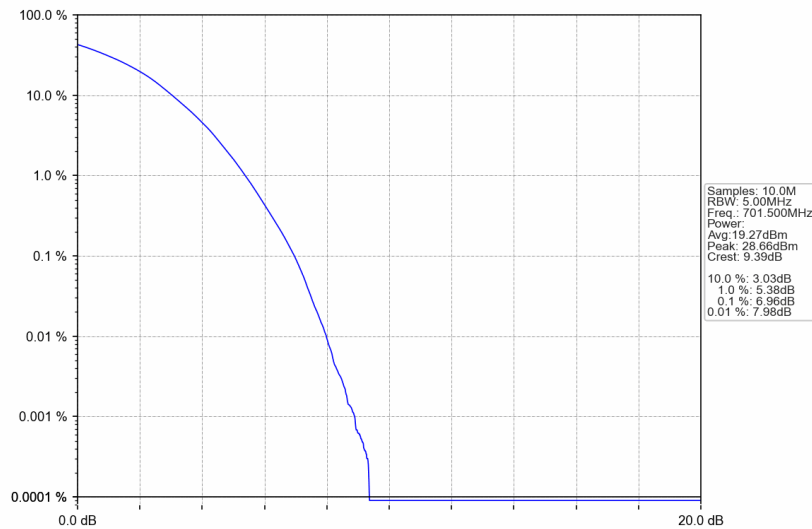
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Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_256QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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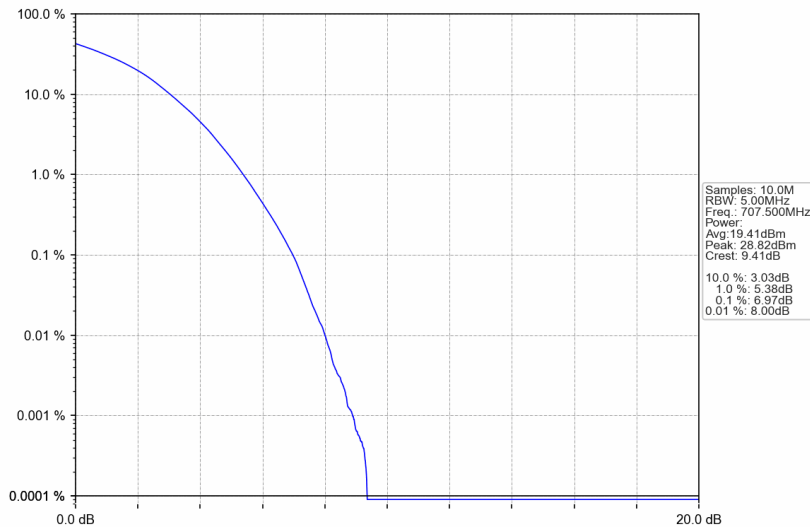
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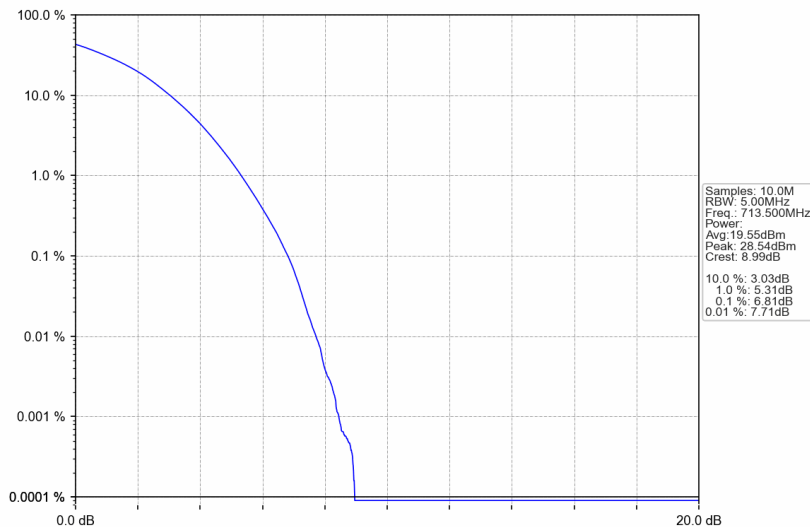
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Band12\_5MHz\_256QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_256QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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4.4 B12\_10MHz

4.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.10	<=13	Pass
	707.5	50	0	5.08	<=13	Pass
	711	50	0	4.95	<=13	Pass
16QAM	704	50	0	5.97	<=13	Pass
	707.5	50	0	5.99	<=13	Pass
	711	50	0	5.88	<=13	Pass
64QAM	704	50	0	6.55	<=13	Pass
	707.5	50	0	6.53	<=13	Pass
	711	50	0	6.39	<=13	Pass
256QAM	704	50	0	6.80	<=13	Pass
	707.5	50	0	6.81	<=13	Pass
	711	50	0	6.74	<=13	Pass

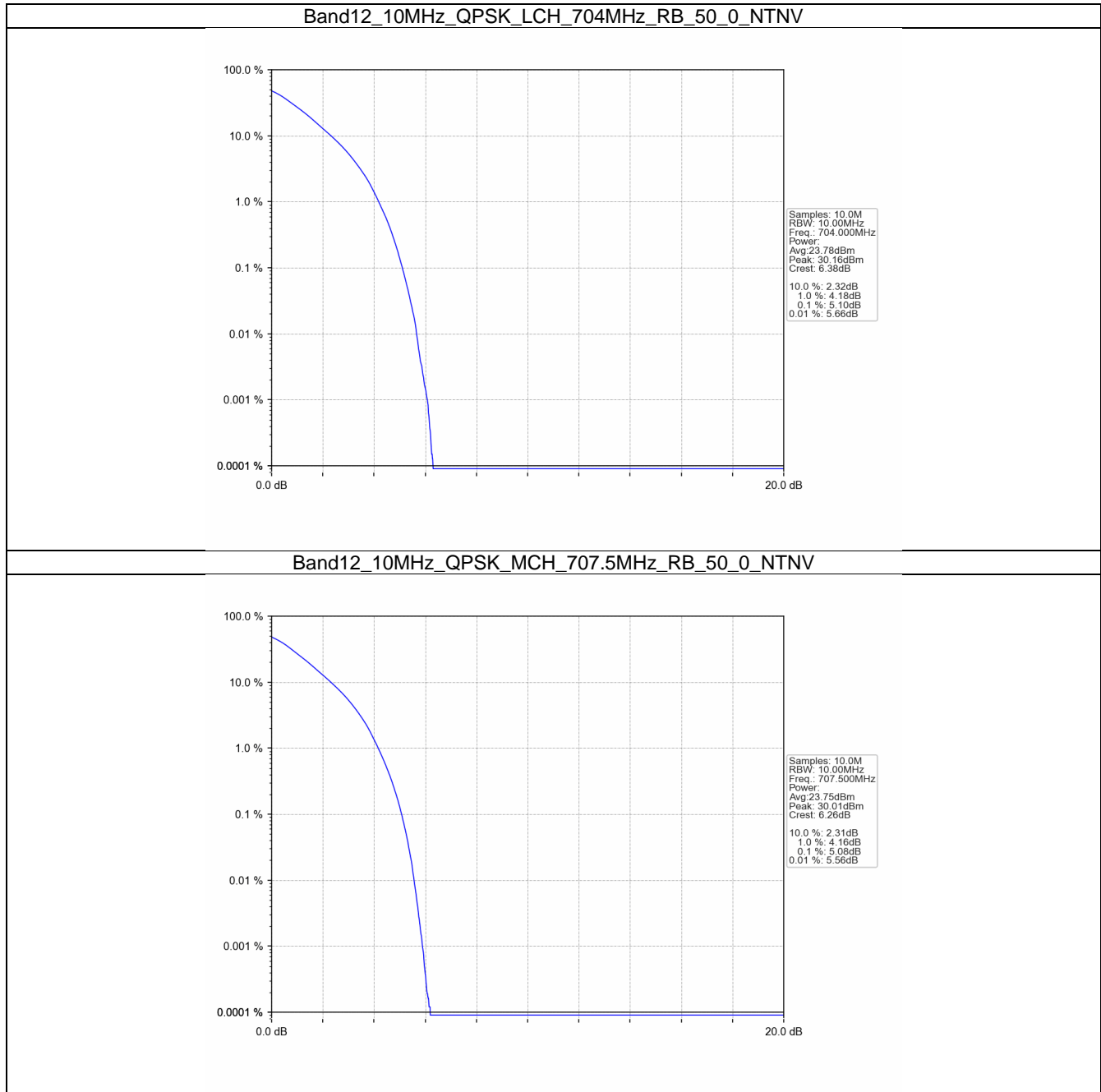


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4.4.2 Test Graph

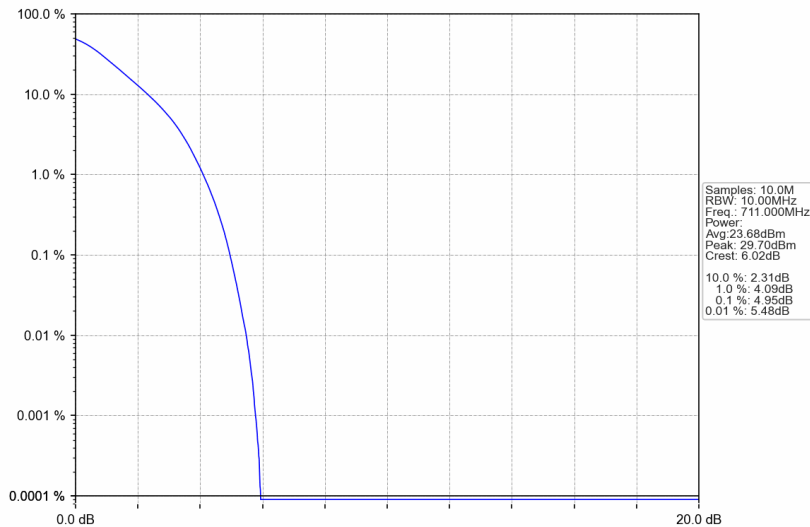


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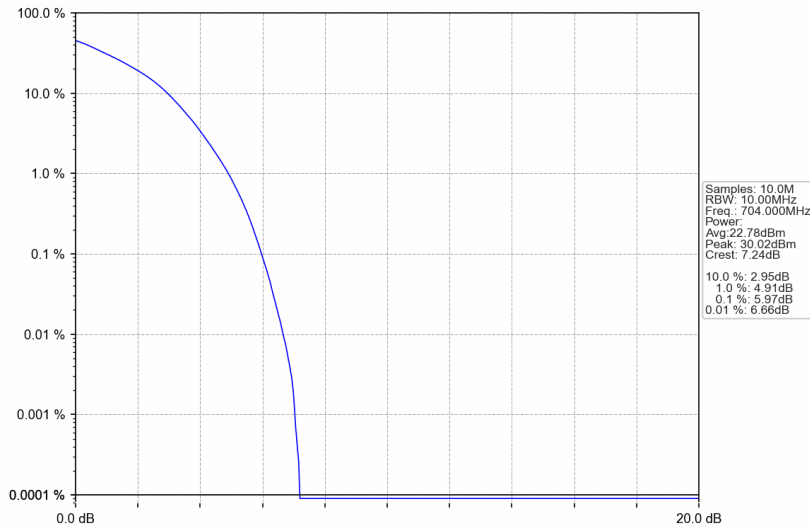
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Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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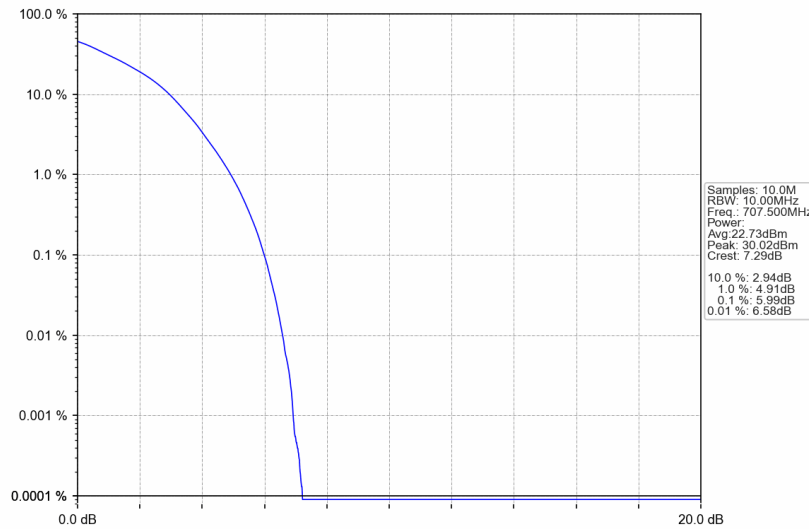
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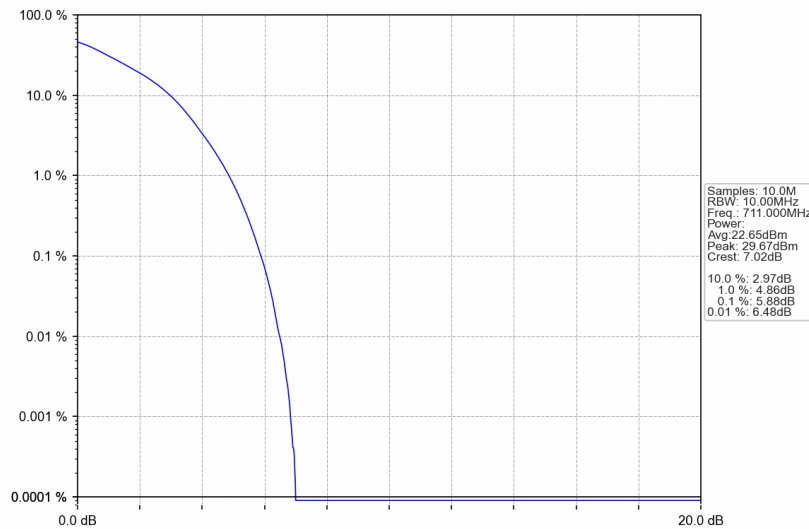
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Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

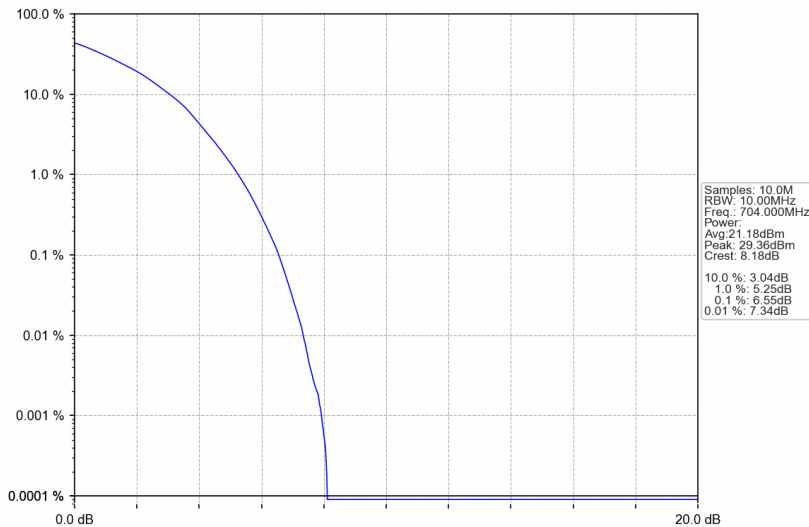


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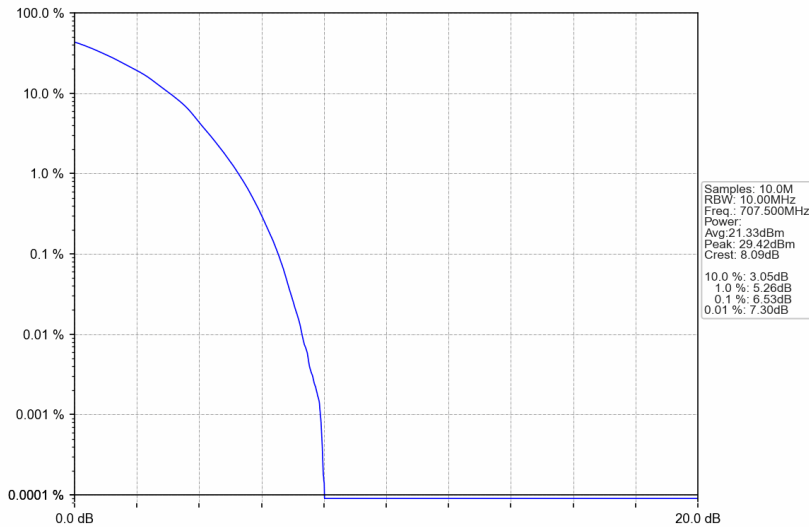
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Band12\_10MHz\_64QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_64QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



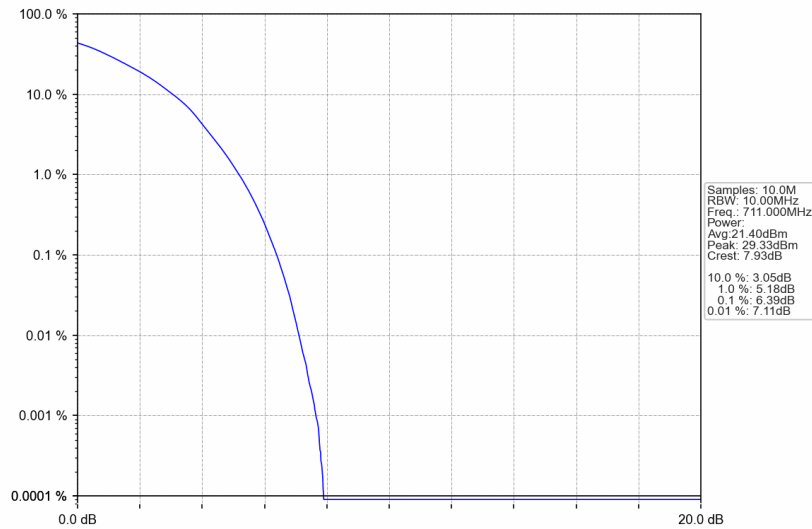
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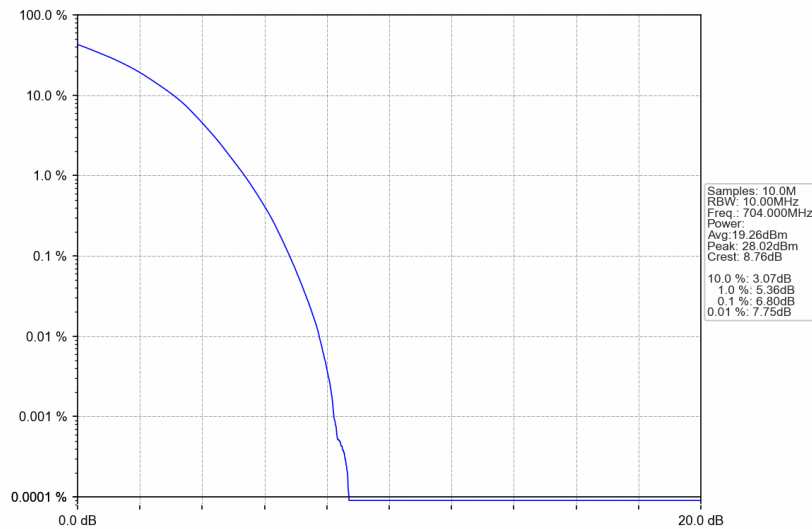
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Band12\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_256QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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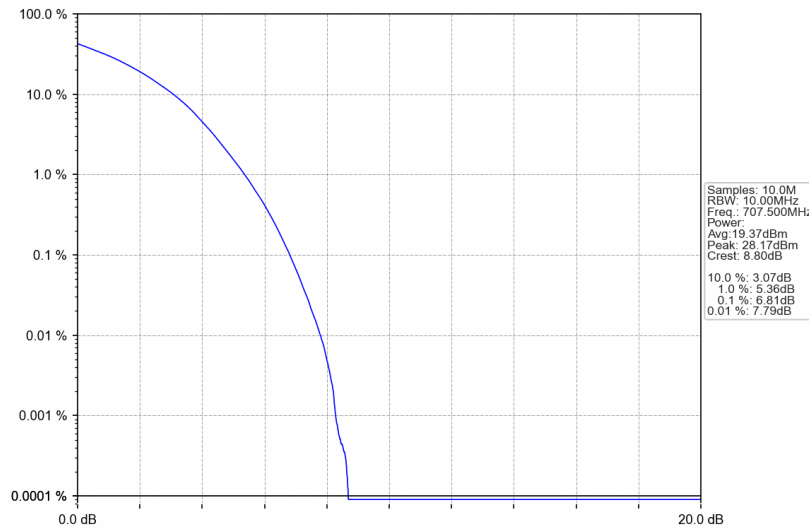
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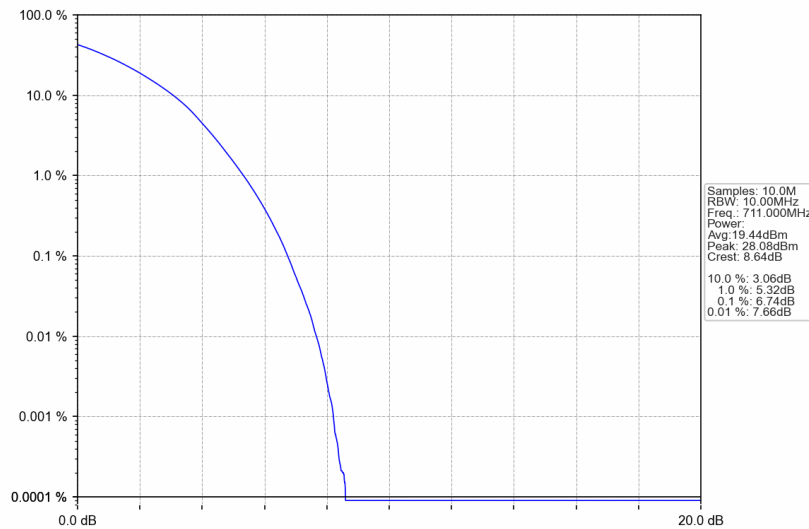
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## 5. Spurious Emission & Band Edges

### 5.1 B12\_1.4MHz

#### 5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	707.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	715.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
16QAM	699.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	707.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	715.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
64QAM	699.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	707.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	715.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
256QAM	699.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	707.5	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	715.3	1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	

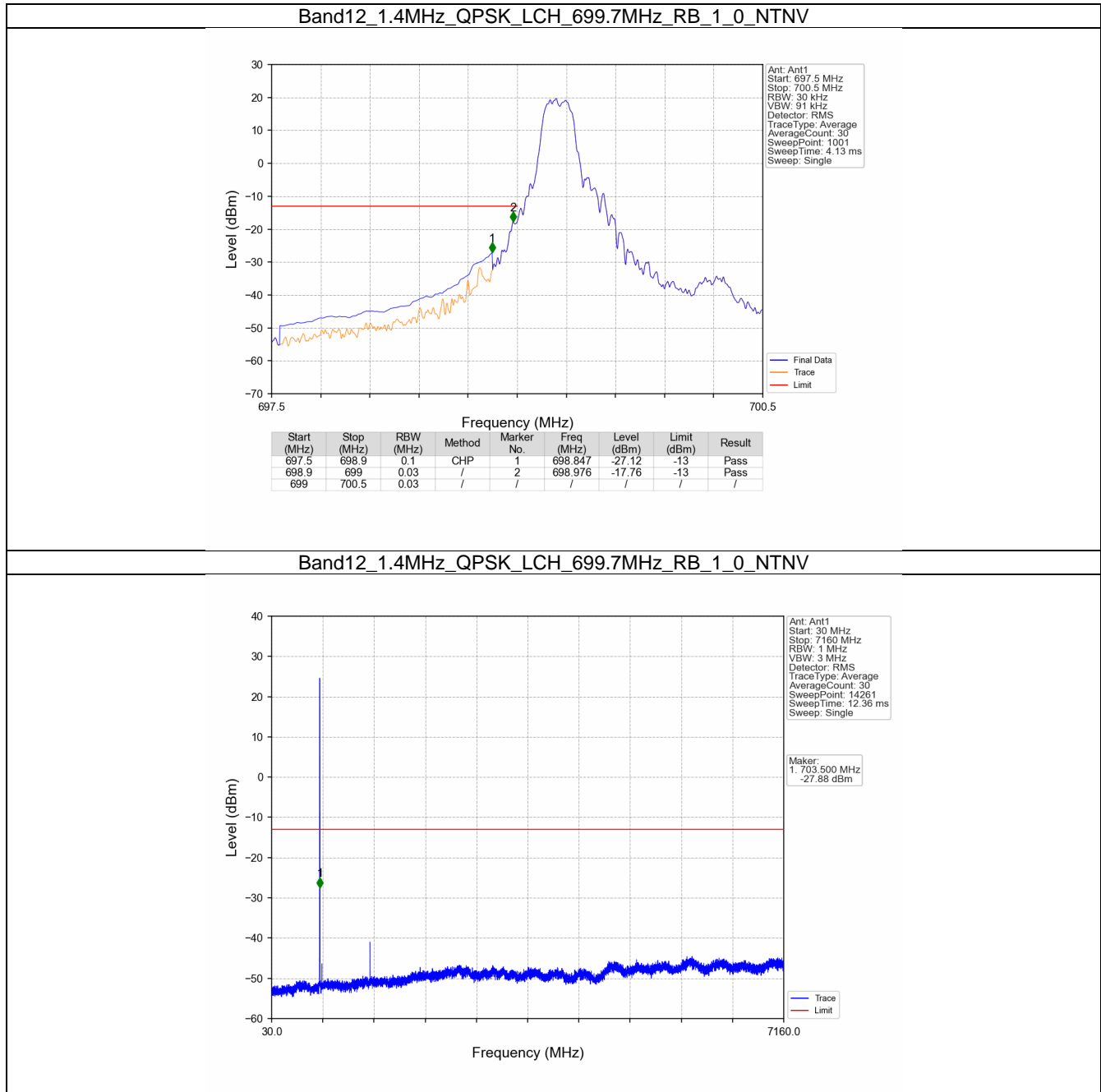


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5.1.2 Test Graph

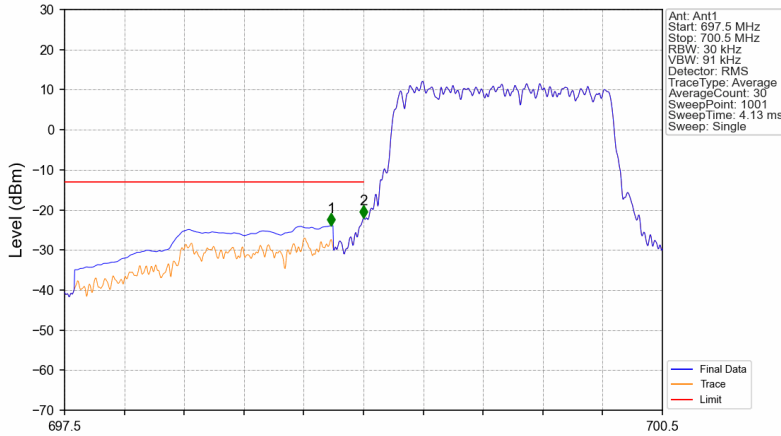


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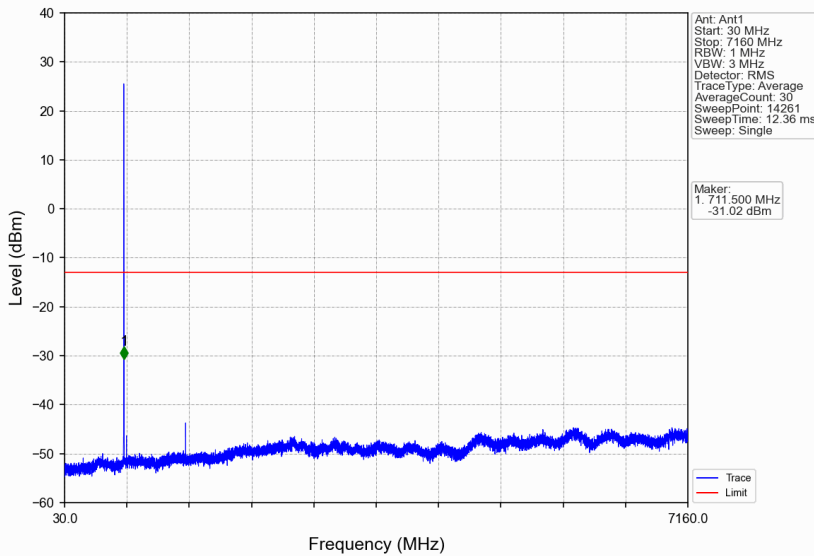
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Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.838	-23.95	-13	Pass
698.9	699	0.03	/	2	699.000	-22.03	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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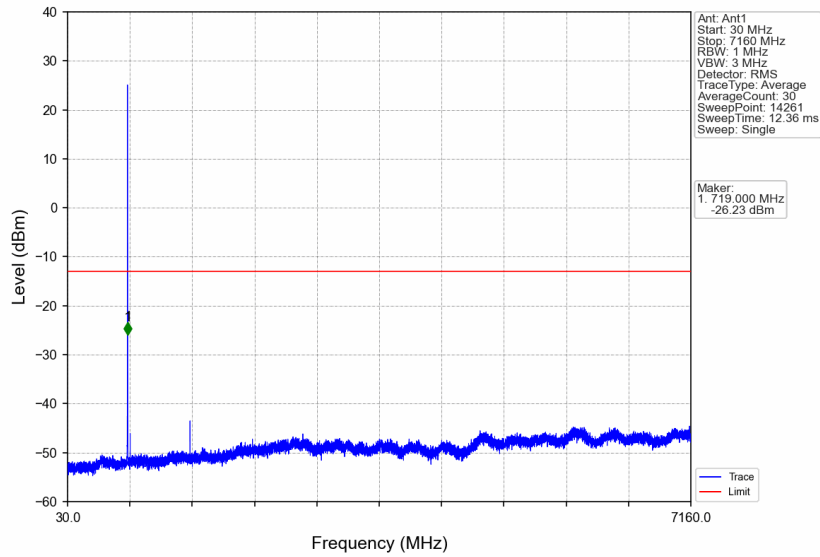
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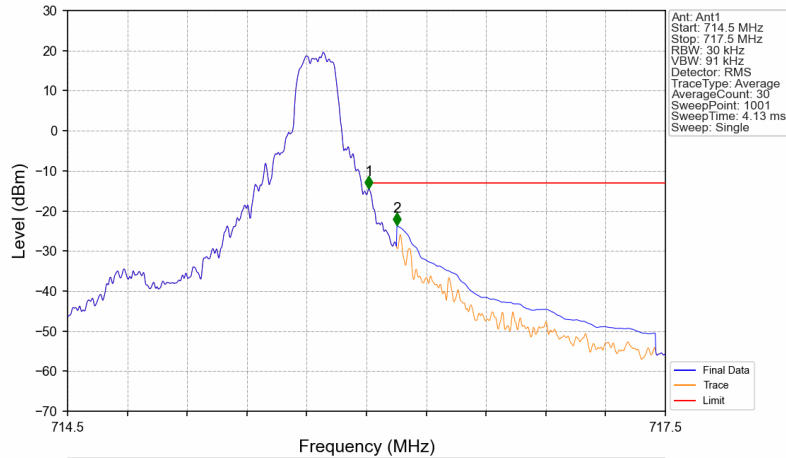
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Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-14.43	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-23.60	-13	Pass



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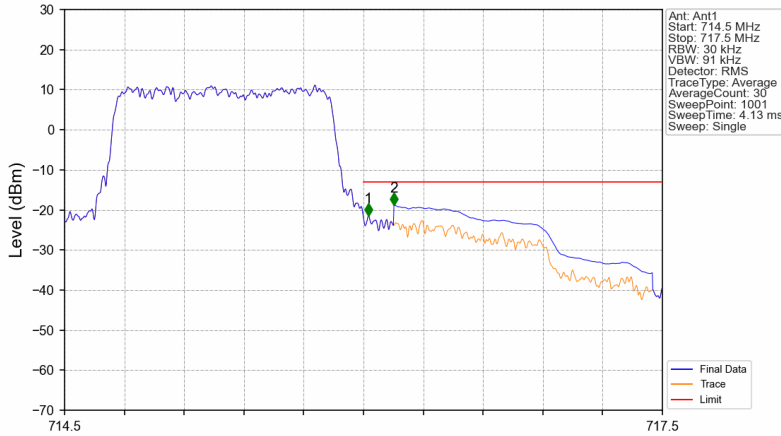
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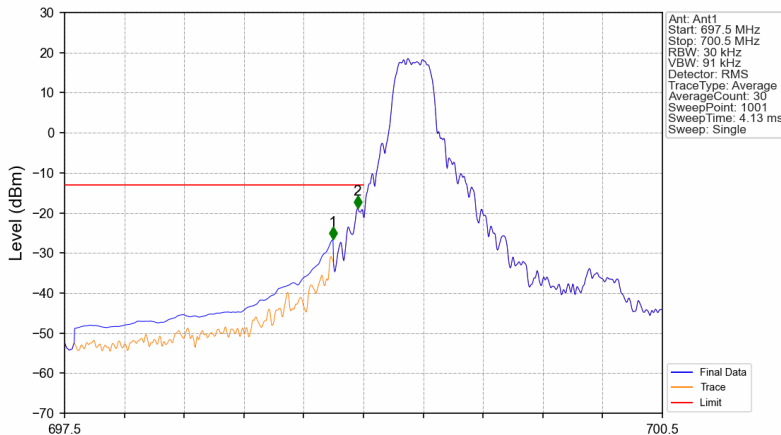


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-21.45	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-18.87	-13	Pass

Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-28.65	-13	Pass
698.9	699	0.03	/	2	698.970	-18.86	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



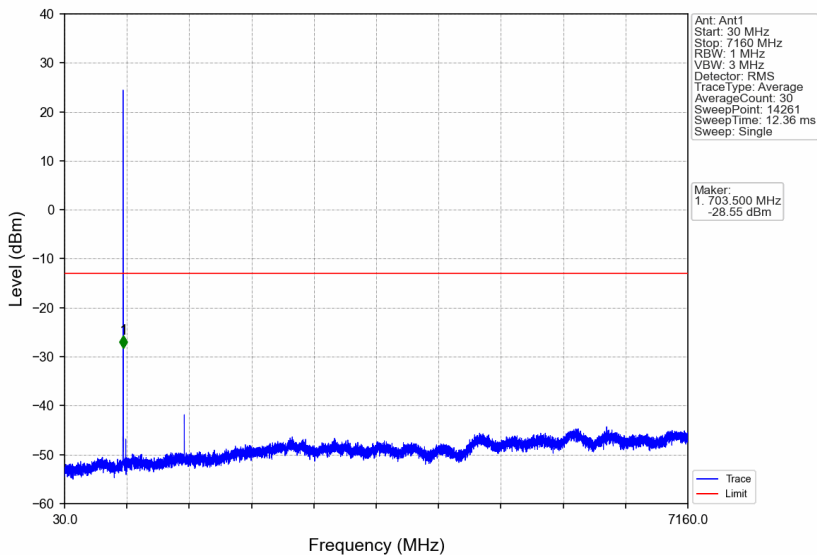
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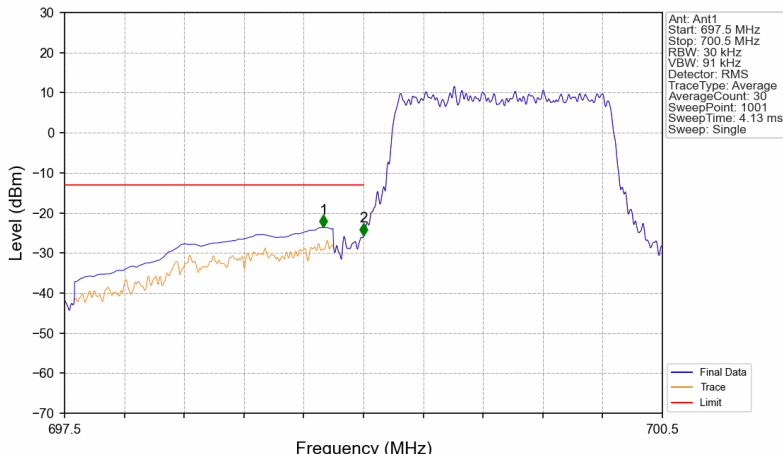
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Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.799	-23.54	-13	Pass
698.9	699	0.03	/	2	699.000	-25.67	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

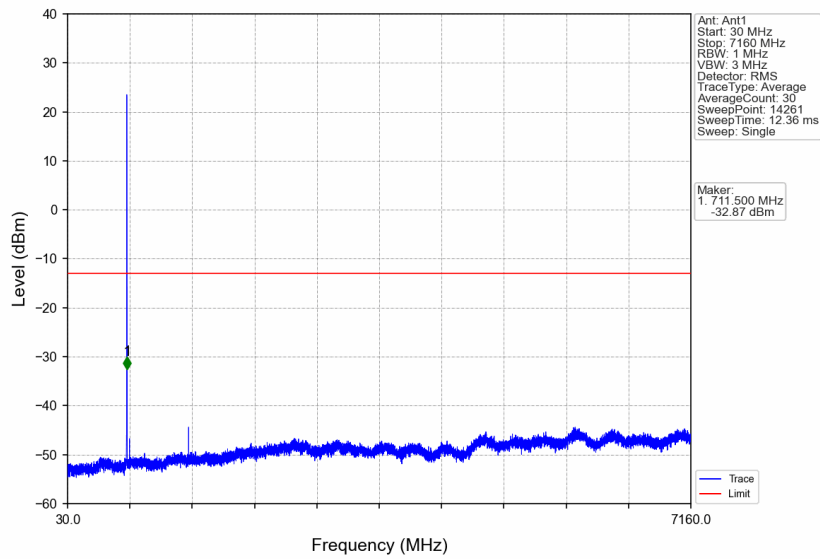


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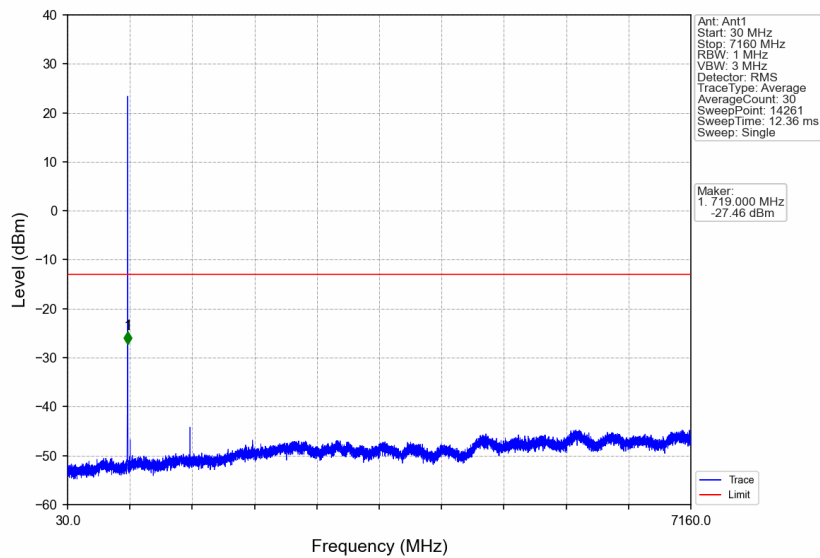
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Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

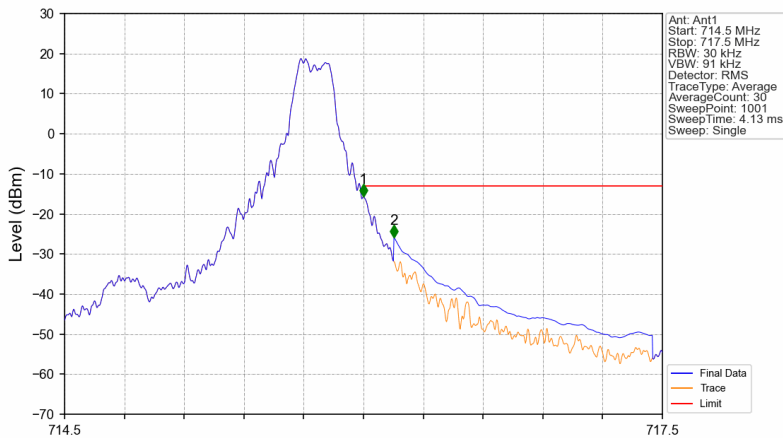


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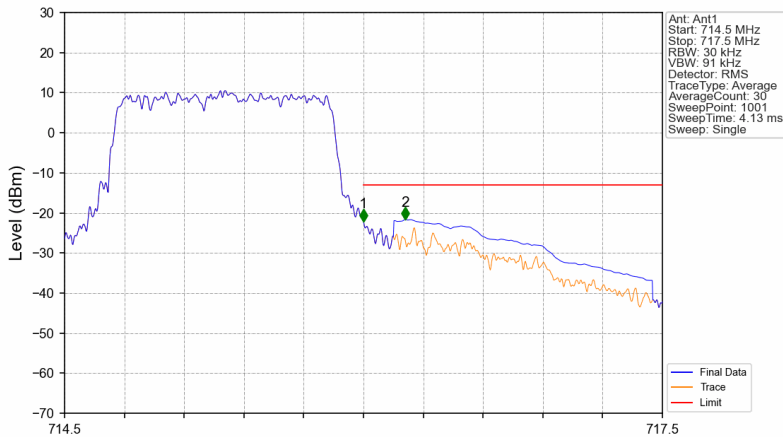
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Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.65	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-25.90	-13	Pass

Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.13	-13	Pass
716.1	717.5	0.1	CHP	2	716.210	-21.63	-13	Pass

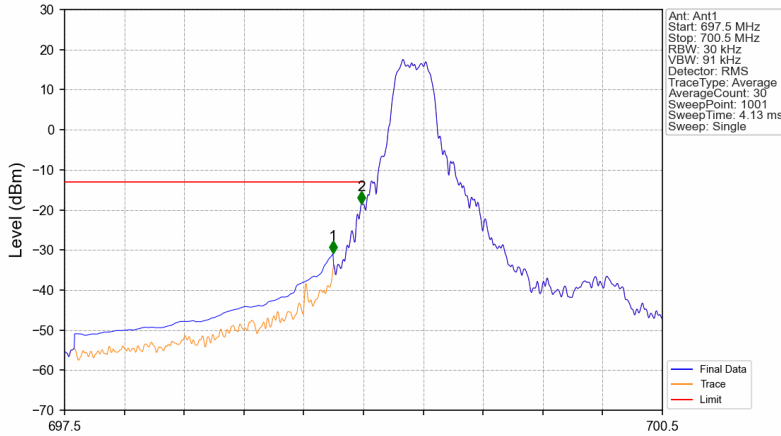


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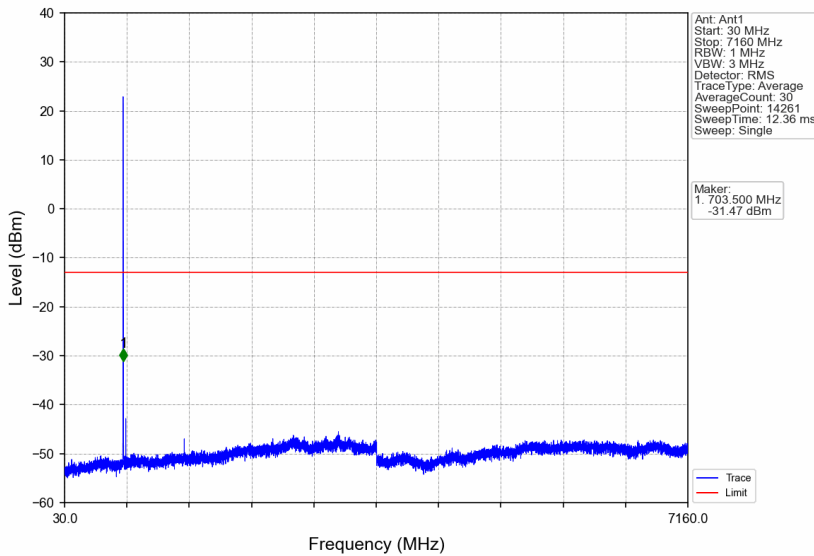
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Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-30.92	-13	Pass
698.9	699	0.03	/	2	698.991	-18.51	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Marker:  
1. 703.500 MHz  
-31.47 dBm



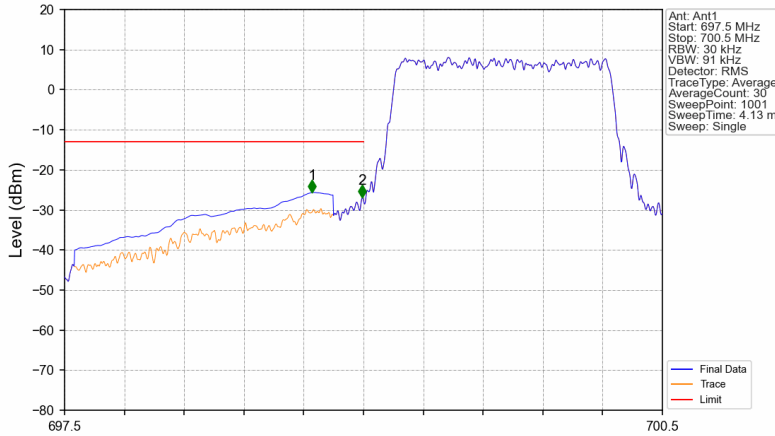
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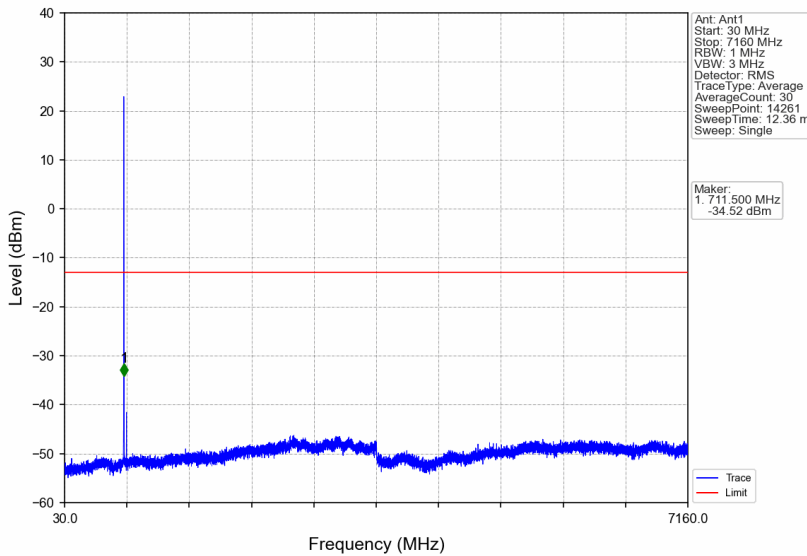
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Band12\_1.4MHz\_64QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.742	-25.66	-13	Pass
698.9	699	0.03	/	2	698.994	-26.96	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



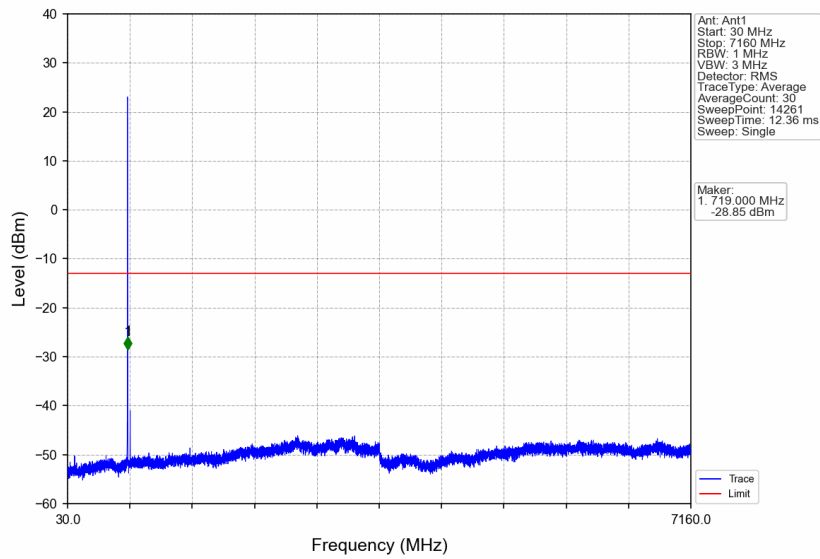
Marker:  
1.711500 MHz  
-34.52 dBm



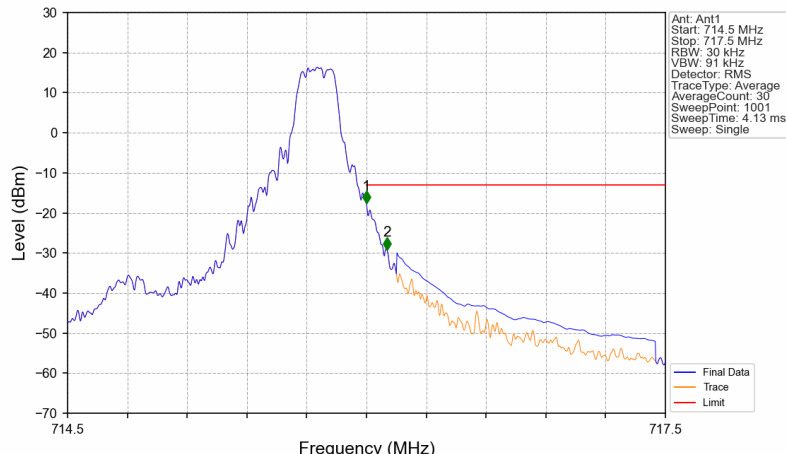
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Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-17.63	-13	Pass
716.1	717.5	0.1	CHP	2	716.102	-29.20	-13	Pass

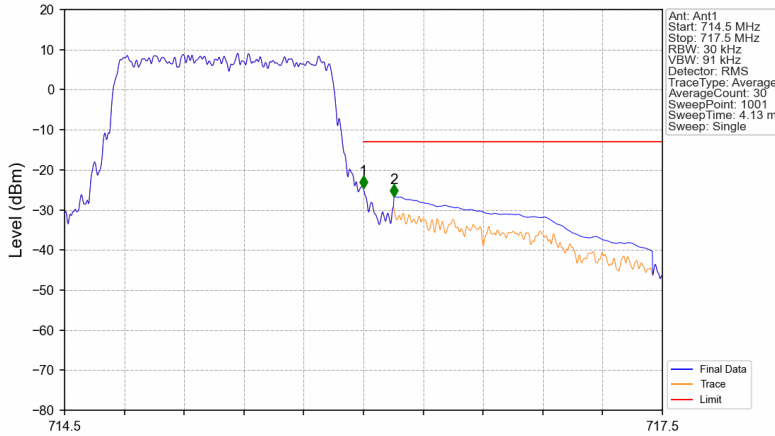


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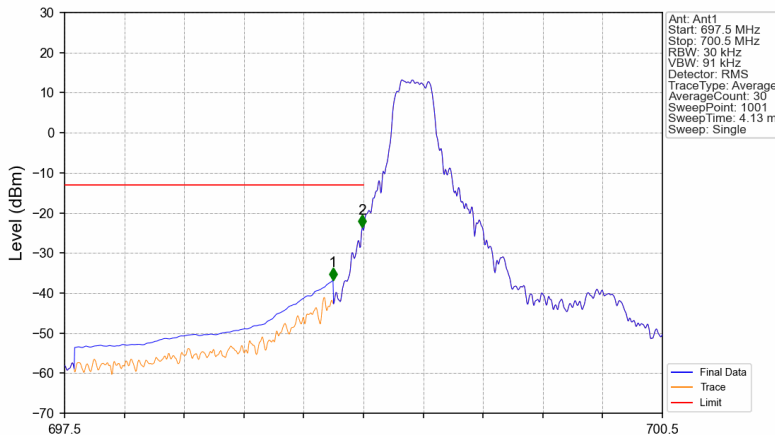
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Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.67	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-26.70	-13	Pass

Band12\_1.4MHz\_256QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-36.77	-13	Pass
698.9	699	0.03	/	2	698.994	-23.64	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



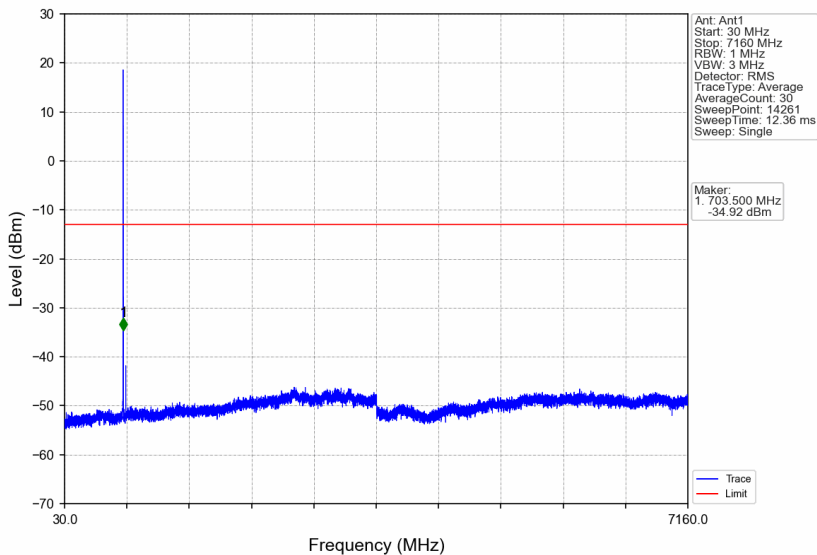
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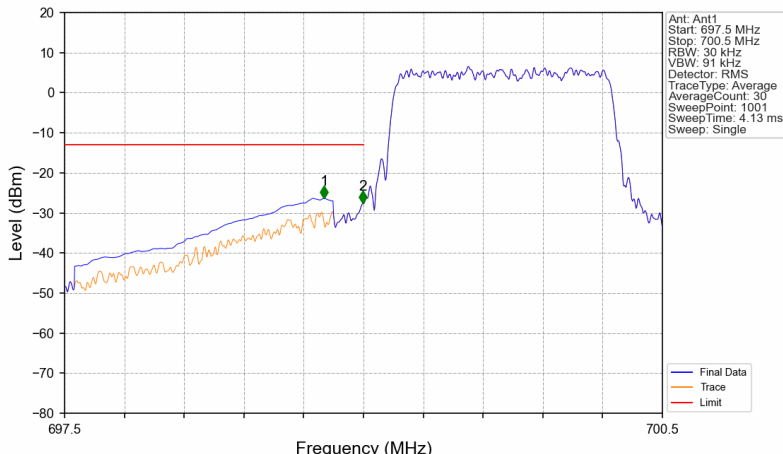
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Band12\_1.4MHz\_256QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_256QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.802	-26.38	-13	Pass
698.9	699	0.03	/	2	698.997	-27.70	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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