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Appendix B.13

LTE Band 17



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1. Frequency Stability

1.1 B17_5MHz

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	706.5	25	0	20	3.8	0.951	0.0013	-2.5 to 2.5	Pass	
					4.0	-0.444	-0.0006	-2.5 to 2.5	Pass	
					4.2	-1.834	-0.0026	-2.5 to 2.5	Pass	
				-30	4.0	-0.498	-0.0007	-2.5 to 2.5	Pass	
					-20	4.0	1.065	0.0015	-2.5 to 2.5	Pass
						4.0	0.040	0.0001	-2.5 to 2.5	Pass
				-10	4.0	-1.985	-0.0028	-2.5 to 2.5	Pass	
					4.0	4.310	0.0061	-2.5 to 2.5	Pass	
				0	4.0	2.296	0.0032	-2.5 to 2.5	Pass	
					4.0	4.780	0.0068	-2.5 to 2.5	Pass	
	4.0	5.395	0.0076	-2.5 to 2.5	Pass					
	710	25	0	20	3.8	-4.522	-0.0064	-2.5 to 2.5	Pass	
					4.0	-4.010	-0.0056	-2.5 to 2.5	Pass	
					4.2	1.256	0.0018	-2.5 to 2.5	Pass	
				-30	4.0	3.720	0.0052	-2.5 to 2.5	Pass	
					-20	4.0	4.725	0.0067	-2.5 to 2.5	Pass
						4.0	4.537	0.0064	-2.5 to 2.5	Pass
				-10	4.0	-0.682	-0.0010	-2.5 to 2.5	Pass	
					4.0	3.261	0.0046	-2.5 to 2.5	Pass	
				0	4.0	3.552	0.0050	-2.5 to 2.5	Pass	
					4.0	1.452	0.0020	-2.5 to 2.5	Pass	
	4.0	-1.672	-0.0024	-2.5 to 2.5	Pass					
	713.5	25	0	20	3.8	-2.773	-0.0039	-2.5 to 2.5	Pass	
					4.0	-3.875	-0.0054	-2.5 to 2.5	Pass	
					4.2	2.018	0.0028	-2.5 to 2.5	Pass	
				-30	4.0	-2.957	-0.0041	-2.5 to 2.5	Pass	
					-20	4.0	-0.768	-0.0011	-2.5 to 2.5	Pass
						4.0	-0.996	-0.0014	-2.5 to 2.5	Pass
				-10	4.0	3.696	0.0052	-2.5 to 2.5	Pass	
					4.0	3.439	0.0048	-2.5 to 2.5	Pass	
0				4.0	-2.605	-0.0037	-2.5 to 2.5	Pass		
				4.0	-2.421	-0.0034	-2.5 to 2.5	Pass		
4.0	2.972	0.0042	-2.5 to 2.5	Pass						
16QAM	706.5	25	0	20	3.8	2.487	0.0035	-2.5 to 2.5	Pass	
					4.0	-0.994	-0.0014	-2.5 to 2.5	Pass	
					4.2	3.315	0.0047	-2.5 to 2.5	Pass	
				-30	4.0	2.035	0.0029	-2.5 to 2.5	Pass	
					-20	4.0	1.380	0.0020	-2.5 to 2.5	Pass
				-10	4.0	4.132	0.0058	-2.5 to 2.5	Pass	
0	4.0	-1.487	-0.0021	-2.5 to 2.5	Pass					



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64QAM	710	25	0	10	4.0	0.304	0.0004	-2.5 to 2.5	Pass
				30	4.0	-1.764	-0.0025	-2.5 to 2.5	Pass
				40	4.0	-2.543	-0.0036	-2.5 to 2.5	Pass
				50	4.0	3.836	0.0054	-2.5 to 2.5	Pass
				20	3.8	-2.889	-0.0041	-2.5 to 2.5	Pass
					4.0	-0.280	-0.0004	-2.5 to 2.5	Pass
					4.2	0.955	0.0013	-2.5 to 2.5	Pass
				-30	4.0	-1.719	-0.0024	-2.5 to 2.5	Pass
				-20	4.0	-2.918	-0.0041	-2.5 to 2.5	Pass
				-10	4.0	0.460	0.0006	-2.5 to 2.5	Pass
				0	4.0	-1.430	-0.0020	-2.5 to 2.5	Pass
				10	4.0	0.071	0.0001	-2.5 to 2.5	Pass
				30	4.0	2.992	0.0042	-2.5 to 2.5	Pass
				40	4.0	2.157	0.0030	-2.5 to 2.5	Pass
				50	4.0	-0.356	-0.0005	-2.5 to 2.5	Pass
	4.0	-1.717	-0.0024	-2.5 to 2.5	Pass				
	4.2	-2.863	-0.0040	-2.5 to 2.5	Pass				
	-30	4.0	-0.879	-0.0012	-2.5 to 2.5	Pass			
	-20	4.0	1.929	0.0027	-2.5 to 2.5	Pass			
	-10	4.0	1.659	0.0023	-2.5 to 2.5	Pass			
	0	4.0	1.014	0.0014	-2.5 to 2.5	Pass			
	10	4.0	0.014	0.0000	-2.5 to 2.5	Pass			
	30	4.0	-1.375	-0.0019	-2.5 to 2.5	Pass			
	40	4.0	1.411	0.0020	-2.5 to 2.5	Pass			
	50	4.0	2.697	0.0038	-2.5 to 2.5	Pass			
	4.0	0.494	0.0007	-2.5 to 2.5	Pass				
	4.2	3.176	0.0045	-2.5 to 2.5	Pass				
	-30	4.0	-2.143	-0.0030	-2.5 to 2.5	Pass			
	-20	4.0	0.375	0.0005	-2.5 to 2.5	Pass			
	-10	4.0	-5.115	-0.0072	-2.5 to 2.5	Pass			
	0	4.0	-1.070	-0.0015	-2.5 to 2.5	Pass			
	10	4.0	-4.908	-0.0069	-2.5 to 2.5	Pass			
	30	4.0	-3.962	-0.0056	-2.5 to 2.5	Pass			
	40	4.0	-3.277	-0.0046	-2.5 to 2.5	Pass			
	50	4.0	-4.883	-0.0069	-2.5 to 2.5	Pass			
4.0	-2.382	-0.0034	-2.5 to 2.5	Pass					
4.2	-1.341	-0.0019	-2.5 to 2.5	Pass					
-30	4.0	-6.050	-0.0085	-2.5 to 2.5	Pass				
-20	4.0	-3.576	-0.0050	-2.5 to 2.5	Pass				
-10	4.0	-1.072	-0.0015	-2.5 to 2.5	Pass				
0	4.0	1.542	0.0022	-2.5 to 2.5	Pass				
10	4.0	1.861	0.0026	-2.5 to 2.5	Pass				
30	4.0	-5.280	-0.0074	-2.5 to 2.5	Pass				
40	4.0	-3.040	-0.0043	-2.5 to 2.5	Pass				
50	4.0	-1.763	-0.0025	-2.5 to 2.5	Pass				
4.0	1.100	0.0015	-2.5 to 2.5	Pass					



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				4.2	2.759	0.0039	-2.5 to 2.5	Pass
				-30	4.0	-4.385	-0.0061	-2.5 to 2.5
				-20	4.0	-1.609	-0.0023	-2.5 to 2.5
				-10	4.0	0.559	0.0008	-2.5 to 2.5
				0	4.0	3.473	0.0049	-2.5 to 2.5
				10	4.0	-0.363	-0.0005	-2.5 to 2.5
				30	4.0	-2.569	-0.0036	-2.5 to 2.5
				40	4.0	-2.742	-0.0038	-2.5 to 2.5
				50	4.0	-0.815	-0.0011	-2.5 to 2.5



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1.2 B17_10MHz

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	709	50	0	20	3.8	-1.352	-0.0019	-2.5 to 2.5	Pass			
					4.0	-5.299	-0.0075	-2.5 to 2.5	Pass			
					4.2	-1.208	-0.0017	-2.5 to 2.5	Pass			
				-30	4.0	-1.781	-0.0025	-2.5 to 2.5	Pass			
					-20	4.0	-4.519	-0.0064	-2.5 to 2.5	Pass		
						4.0	-5.646	-0.0080	-2.5 to 2.5	Pass		
				0	4.0	0.340	0.0005	-2.5 to 2.5	Pass			
				10	4.0	1.428	0.0020	-2.5 to 2.5	Pass			
				30	4.0	0.521	0.0007	-2.5 to 2.5	Pass			
				40	4.0	-5.322	-0.0075	-2.5 to 2.5	Pass			
				50	4.0	-4.896	-0.0069	-2.5 to 2.5	Pass			
				710	50	0	20	3.8	2.365	0.0033	-2.5 to 2.5	Pass
								4.0	0.621	0.0009	-2.5 to 2.5	Pass
								4.2	-0.124	-0.0002	-2.5 to 2.5	Pass
							-30	4.0	2.914	0.0041	-2.5 to 2.5	Pass
	-20	4.0	-1.946					-0.0027	-2.5 to 2.5	Pass		
		4.0	-5.287					-0.0074	-2.5 to 2.5	Pass		
	0	4.0	2.310				0.0033	-2.5 to 2.5	Pass			
	10	4.0	-2.749				-0.0039	-2.5 to 2.5	Pass			
	30	4.0	-5.340				-0.0075	-2.5 to 2.5	Pass			
	40	4.0	2.517				0.0035	-2.5 to 2.5	Pass			
	50	4.0	-0.661				-0.0009	-2.5 to 2.5	Pass			
	711	50	0				20	3.8	0.393	0.0006	-2.5 to 2.5	Pass
								4.0	-4.538	-0.0064	-2.5 to 2.5	Pass
								4.2	0.133	0.0002	-2.5 to 2.5	Pass
							-30	4.0	3.603	0.0051	-2.5 to 2.5	Pass
				-20	4.0	-4.048		-0.0057	-2.5 to 2.5	Pass		
					4.0	-2.641		-0.0037	-2.5 to 2.5	Pass		
				0	4.0	1.696	0.0024	-2.5 to 2.5	Pass			
				10	4.0	0.156	0.0002	-2.5 to 2.5	Pass			
30				4.0	-0.664	-0.0009	-2.5 to 2.5	Pass				
40				4.0	-0.780	-0.0011	-2.5 to 2.5	Pass				
50				4.0	-0.317	-0.0004	-2.5 to 2.5	Pass				
16QAM				709	50	0	20	3.8	0.169	0.0002	-2.5 to 2.5	Pass
								4.0	-5.702	-0.0080	-2.5 to 2.5	Pass
								4.2	-3.252	-0.0046	-2.5 to 2.5	Pass
							-30	4.0	-0.382	-0.0005	-2.5 to 2.5	Pass
	-20	4.0	-1.285					-0.0018	-2.5 to 2.5	Pass		
		4.0	-6.307					-0.0089	-2.5 to 2.5	Pass		
	0	4.0	-6.236				-0.0088	-2.5 to 2.5	Pass			
	10	4.0	-0.409				-0.0006	-2.5 to 2.5	Pass			
	30	4.0	-2.102				-0.0030	-2.5 to 2.5	Pass			



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				50	4.0	-3.883	-0.0055	-2.5 to 2.5	Pass			
				20	3.8	-4.205	-0.0059	-2.5 to 2.5	Pass			
					4.0	4.035	0.0057	-2.5 to 2.5	Pass			
					4.2	4.028	0.0057	-2.5 to 2.5	Pass			
				-30	4.0	4.746	0.0067	-2.5 to 2.5	Pass			
				-20	4.0	-3.866	-0.0054	-2.5 to 2.5	Pass			
				-10	4.0	-3.239	-0.0046	-2.5 to 2.5	Pass			
				0	4.0	2.912	0.0041	-2.5 to 2.5	Pass			
				10	4.0	0.041	0.0001	-2.5 to 2.5	Pass			
				30	4.0	-1.550	-0.0022	-2.5 to 2.5	Pass			
				40	4.0	-1.591	-0.0022	-2.5 to 2.5	Pass			
				50	4.0	0.390	0.0005	-2.5 to 2.5	Pass			
				711	50	0	20	3.8	-3.040	-0.0043	-2.5 to 2.5	Pass
	4.0	-1.978	-0.0028					-2.5 to 2.5	Pass			
	4.2	-0.504	-0.0007					-2.5 to 2.5	Pass			
	-30	4.0	2.345				0.0033	-2.5 to 2.5	Pass			
	-20	4.0	-1.678				-0.0024	-2.5 to 2.5	Pass			
	-10	4.0	-0.440				-0.0006	-2.5 to 2.5	Pass			
	0	4.0	-2.228				-0.0031	-2.5 to 2.5	Pass			
	10	4.0	0.519				0.0007	-2.5 to 2.5	Pass			
	30	4.0	3.418				0.0048	-2.5 to 2.5	Pass			
	40	4.0	-1.834				-0.0026	-2.5 to 2.5	Pass			
	50	4.0	-1.225				-0.0017	-2.5 to 2.5	Pass			
	709	50	0				20	3.8	-0.430	-0.0006	-2.5 to 2.5	Pass
								4.0	-6.726	-0.0095	-2.5 to 2.5	Pass
								4.2	-4.194	-0.0059	-2.5 to 2.5	Pass
				-30	4.0	2.242	0.0032	-2.5 to 2.5	Pass			
-20				4.0	-3.165	-0.0045	-2.5 to 2.5	Pass				
-10				4.0	-2.775	-0.0039	-2.5 to 2.5	Pass				
0				4.0	-3.230	-0.0046	-2.5 to 2.5	Pass				
10				4.0	-1.765	-0.0025	-2.5 to 2.5	Pass				
30				4.0	-1.086	-0.0015	-2.5 to 2.5	Pass				
40				4.0	-1.761	-0.0025	-2.5 to 2.5	Pass				
50				4.0	1.314	0.0019	-2.5 to 2.5	Pass				
710				50	0	20	3.8	-3.666	-0.0052	-2.5 to 2.5	Pass	
							4.0	-3.918	-0.0055	-2.5 to 2.5	Pass	
							4.2	-2.460	-0.0035	-2.5 to 2.5	Pass	
	-30	4.0	-2.154			-0.0030	-2.5 to 2.5	Pass				
	-20	4.0	-3.820			-0.0054	-2.5 to 2.5	Pass				
	-10	4.0	-2.014			-0.0028	-2.5 to 2.5	Pass				
	0	4.0	-0.889			-0.0013	-2.5 to 2.5	Pass				
	10	4.0	-3.099			-0.0044	-2.5 to 2.5	Pass				
	30	4.0	-2.851			-0.0040	-2.5 to 2.5	Pass				
	40	4.0	-0.595			-0.0008	-2.5 to 2.5	Pass				
	50	4.0	-4.430			-0.0062	-2.5 to 2.5	Pass				
	711	50	0			20	3.8	-0.737	-0.0010	-2.5 to 2.5	Pass	
							4.0	-0.648	-0.0009	-2.5 to 2.5	Pass	
							4.2	3.128	0.0044	-2.5 to 2.5	Pass	
-30				4.0	-2.265	-0.0032	-2.5 to 2.5	Pass				



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 7 of 115

				-20	4.0	-2.121	-0.0030	-2.5 to 2.5	Pass
				-10	4.0	3.470	0.0049	-2.5 to 2.5	Pass
				0	4.0	-1.254	-0.0018	-2.5 to 2.5	Pass
				10	4.0	-1.923	-0.0027	-2.5 to 2.5	Pass
				30	4.0	-3.512	-0.0049	-2.5 to 2.5	Pass
				40	4.0	-1.802	-0.0025	-2.5 to 2.5	Pass
				50	4.0	4.015	0.0056	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band17_OBW

2.1.1 Test Result

Band: 17 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.542	/	Pass
		710	25	0	4.536	/	Pass
		713.5	25	0	4.553	/	Pass
	16QAM	706.5	25	0	4.569	/	Pass
		710	25	0	4.561	/	Pass
		713.5	25	0	4.544	/	Pass
	64QAM	706.5	25	0	4.563	/	Pass
		710	25	0	4.546	/	Pass
		713.5	25	0	4.540	/	Pass
10	QPSK	709	50	0	9.045	/	Pass
		710	50	0	9.018	/	Pass
		711	50	0	9.043	/	Pass
	16QAM	709	50	0	9.072	/	Pass
		710	50	0	9.035	/	Pass
		711	50	0	9.020	/	Pass
	64QAM	709	50	0	9.018	/	Pass
		710	50	0	9.034	/	Pass
		711	50	0	9.068	/	Pass

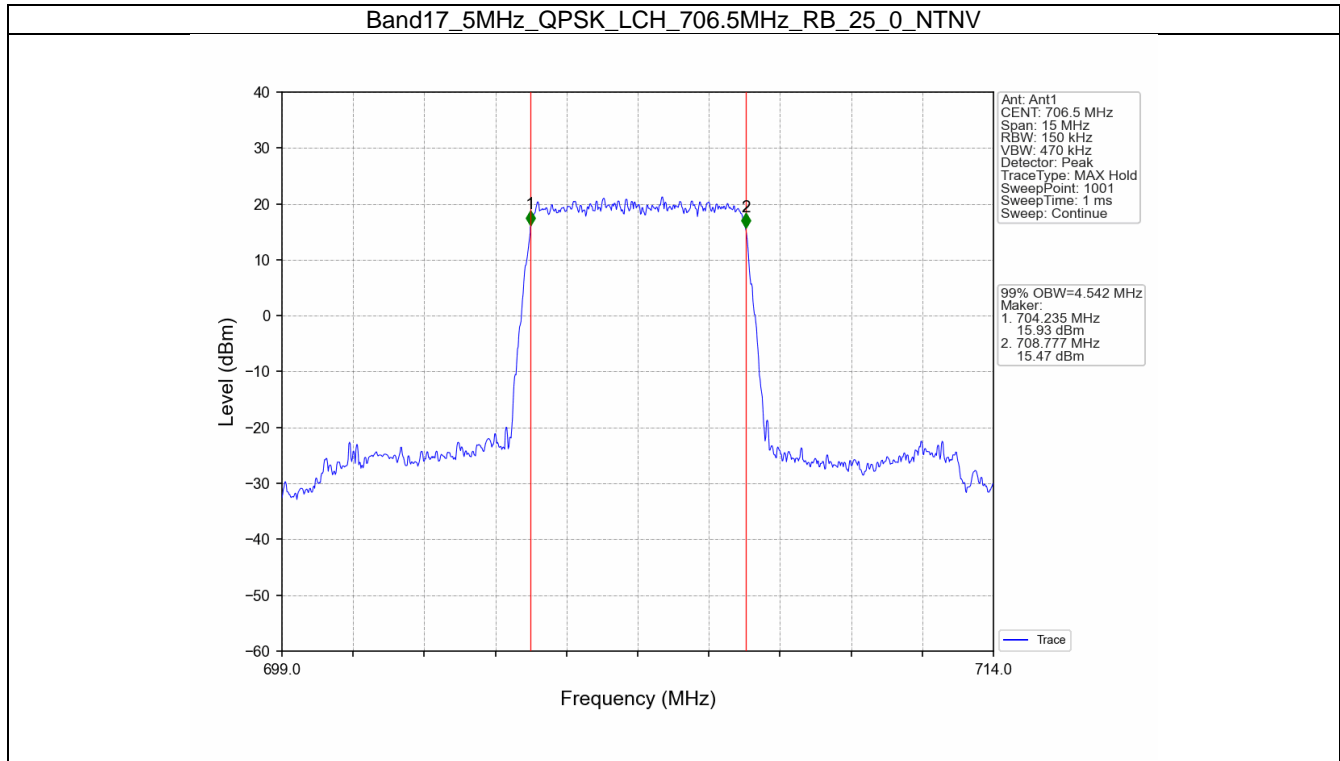


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2.1.2 Test Graph

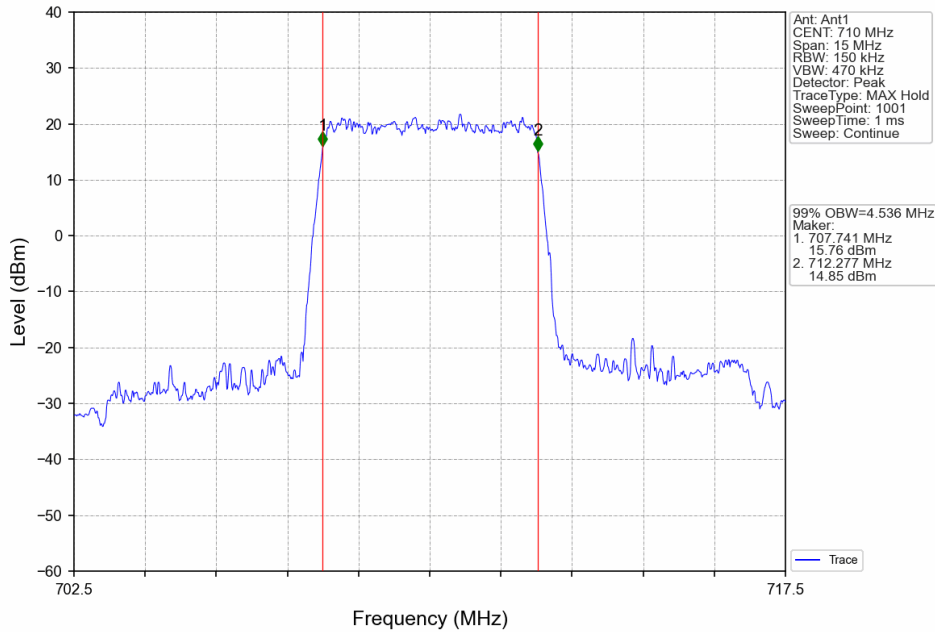


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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV

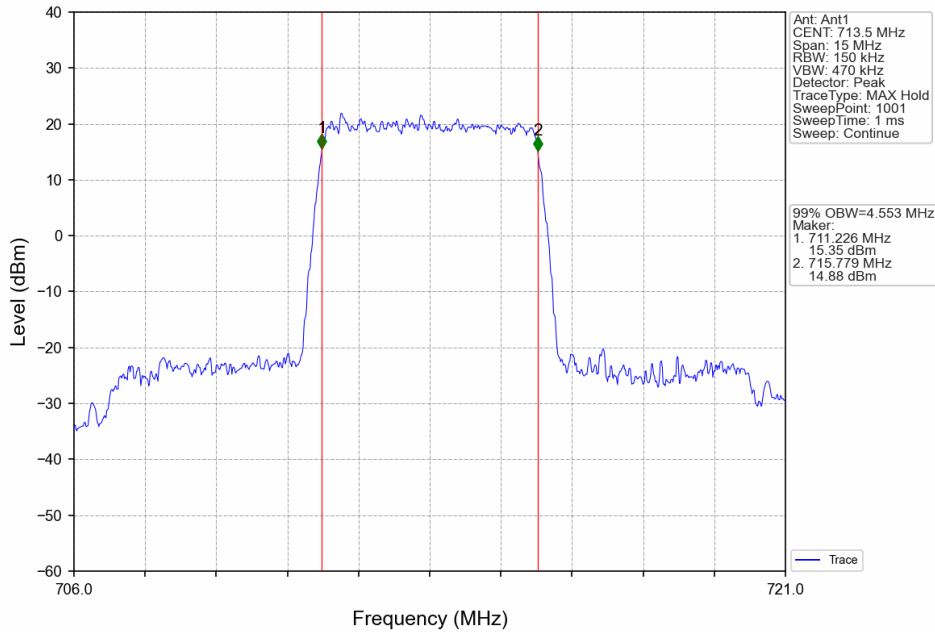


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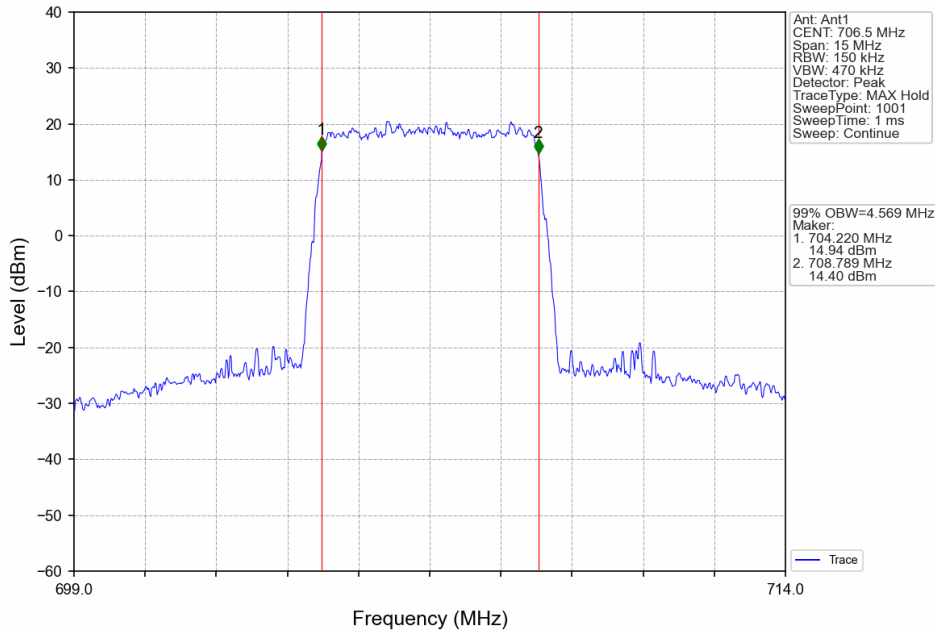
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



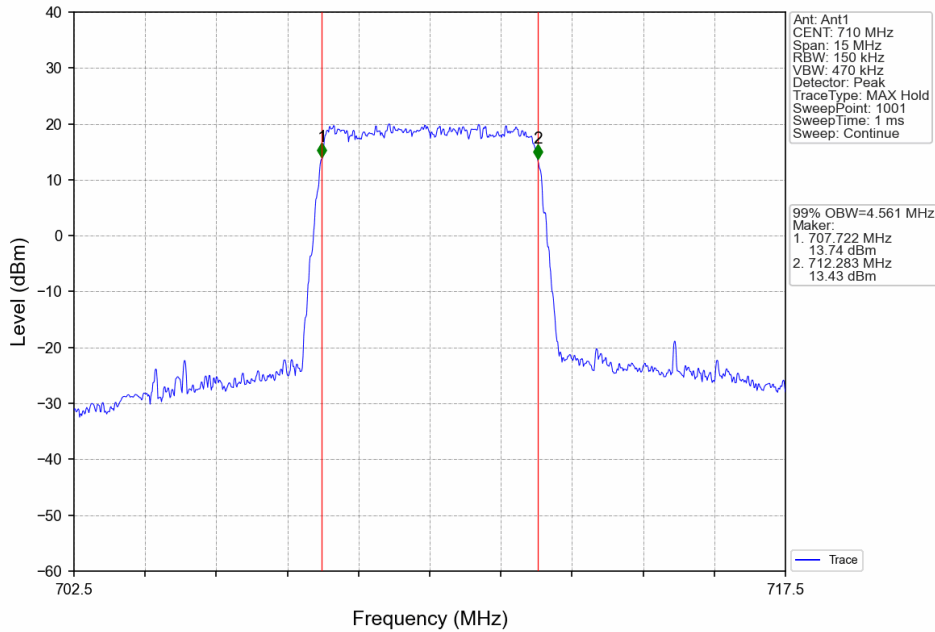
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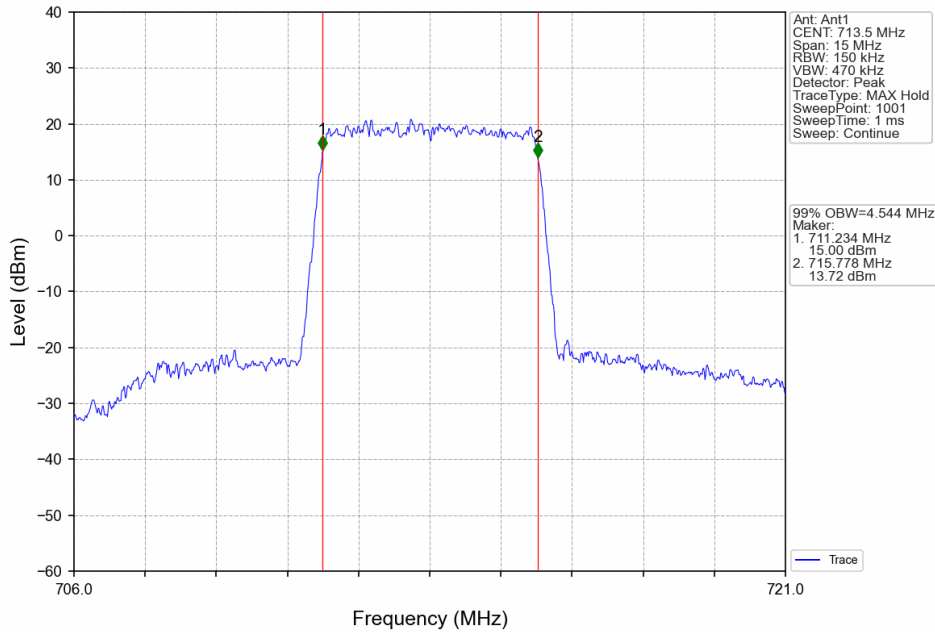
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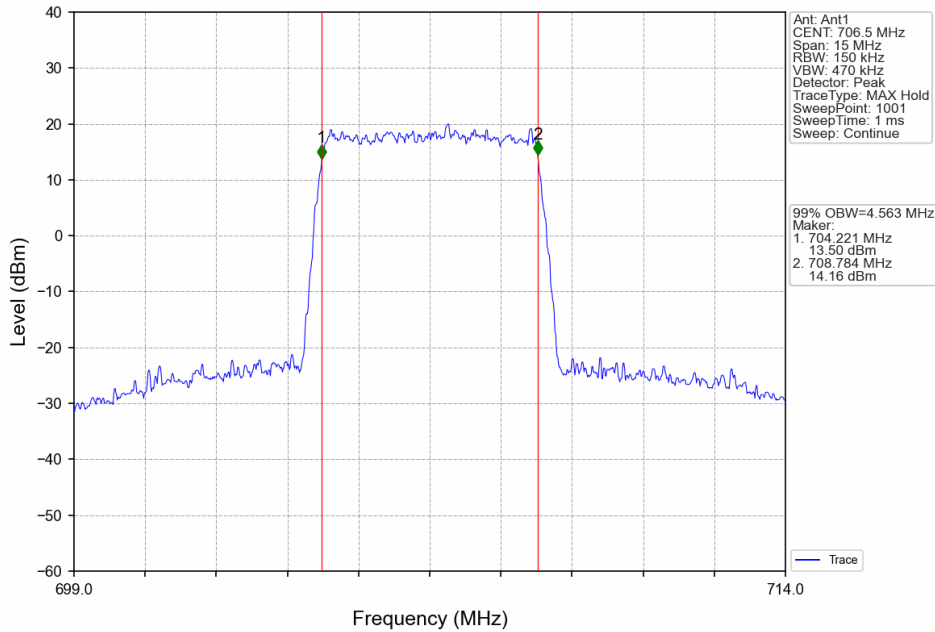
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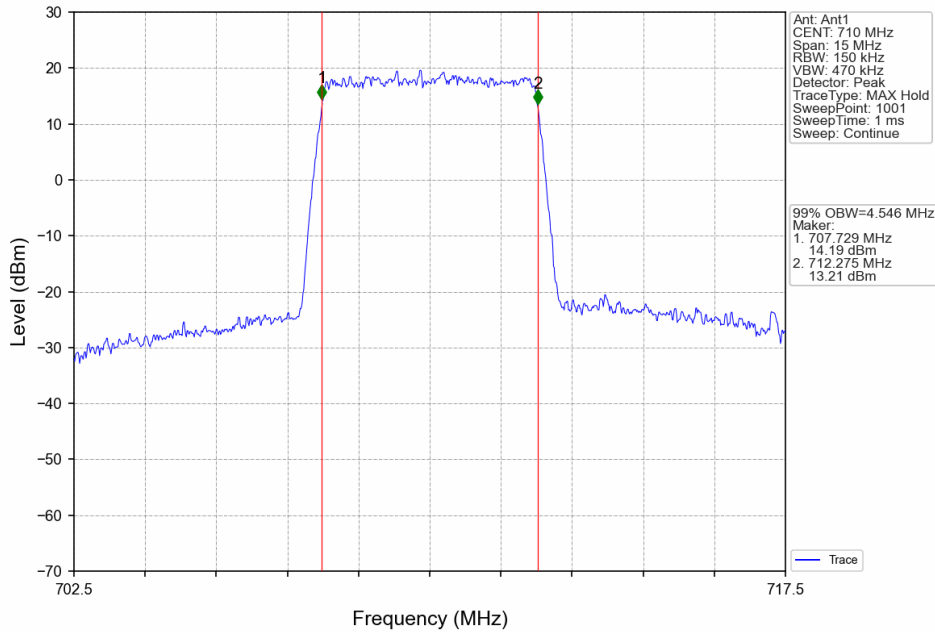
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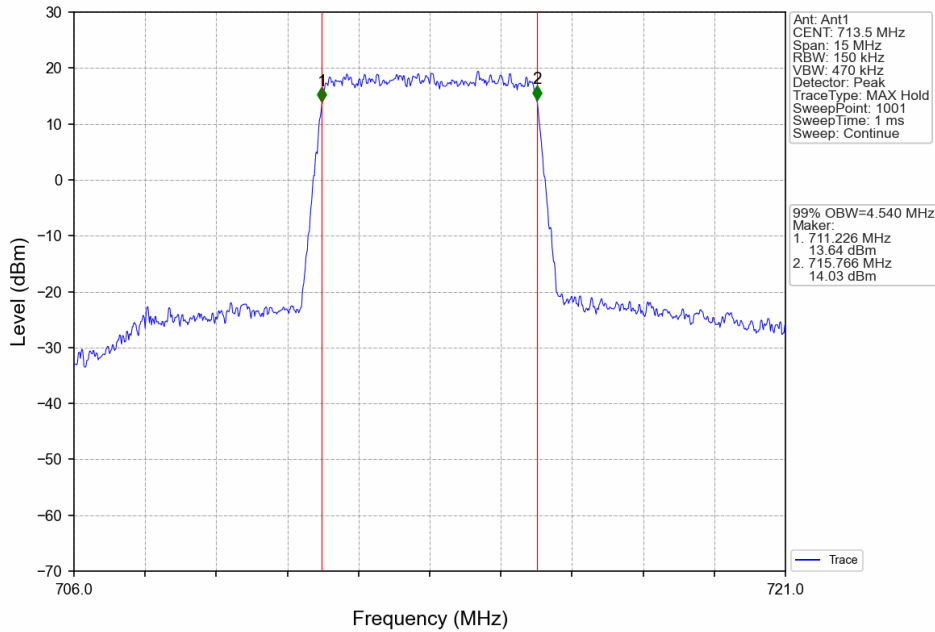
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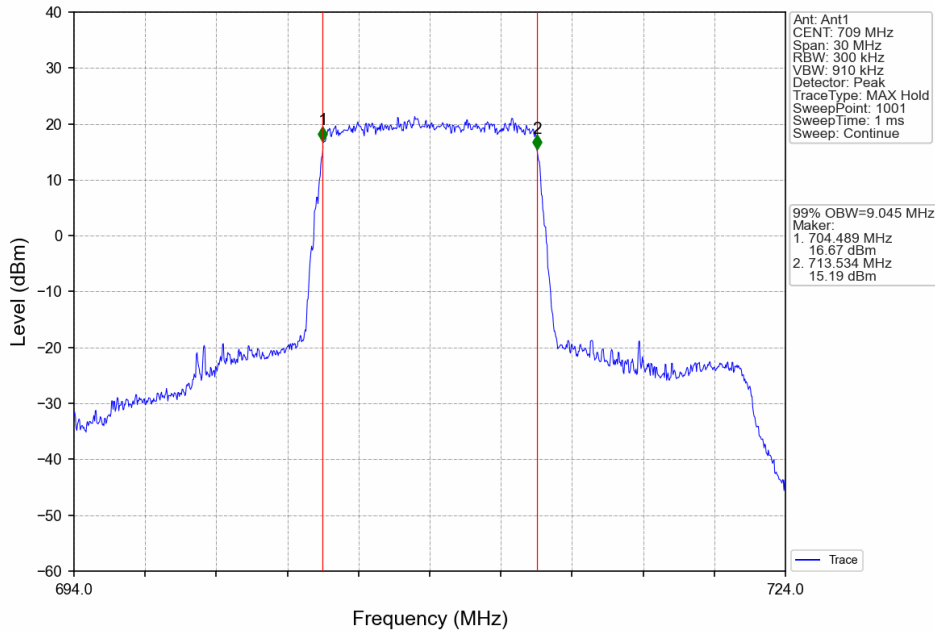


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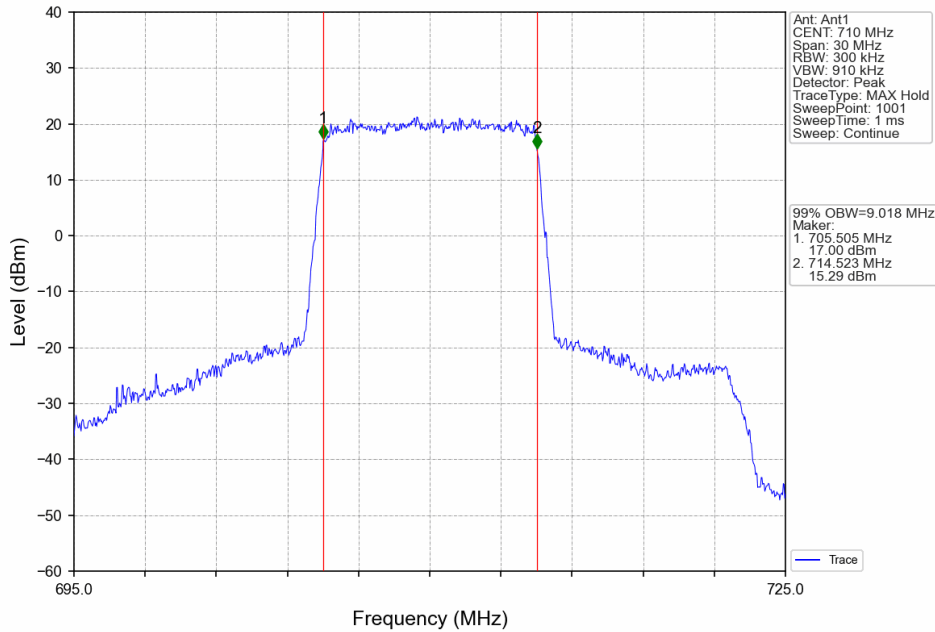


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Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



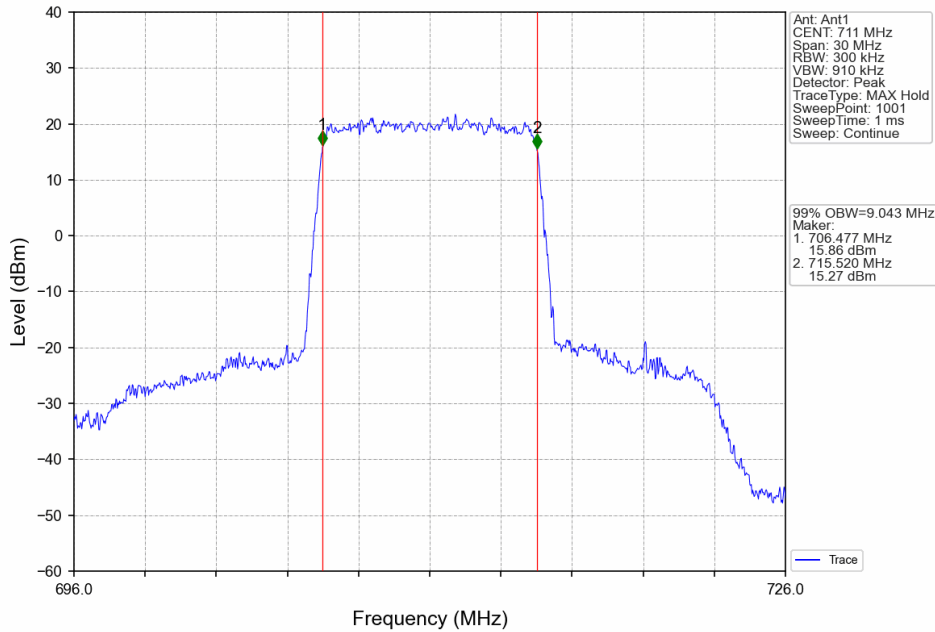
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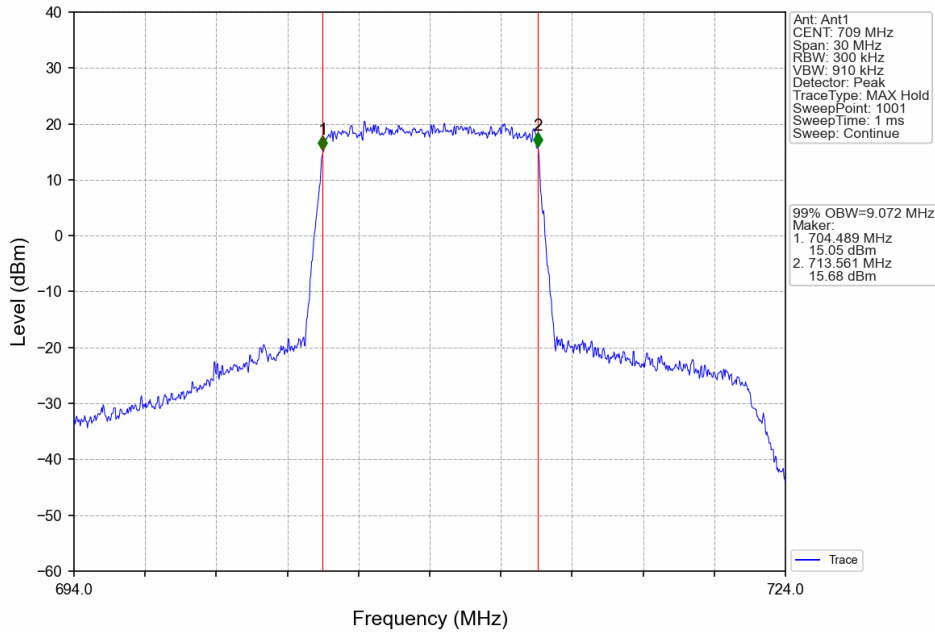
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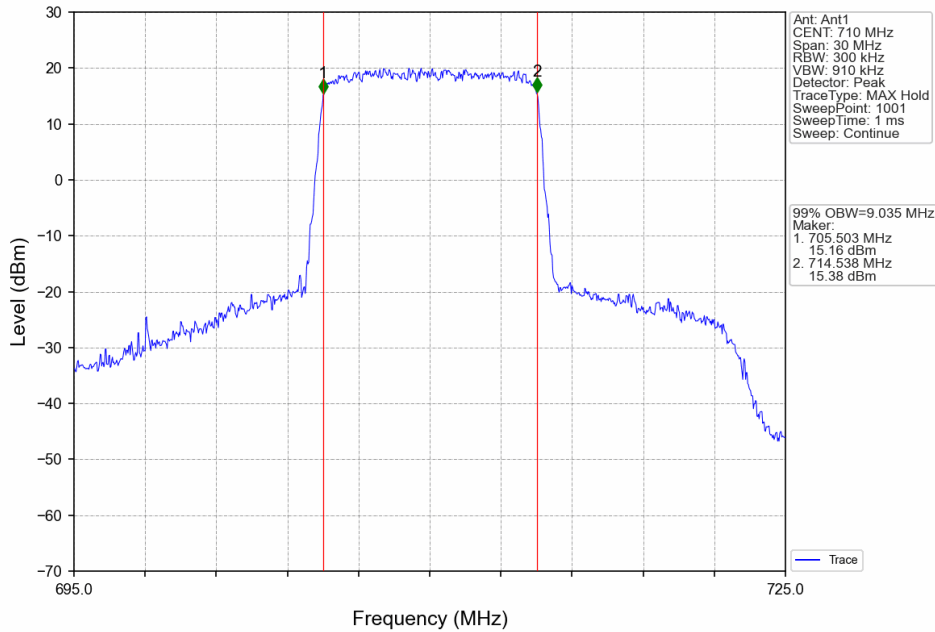
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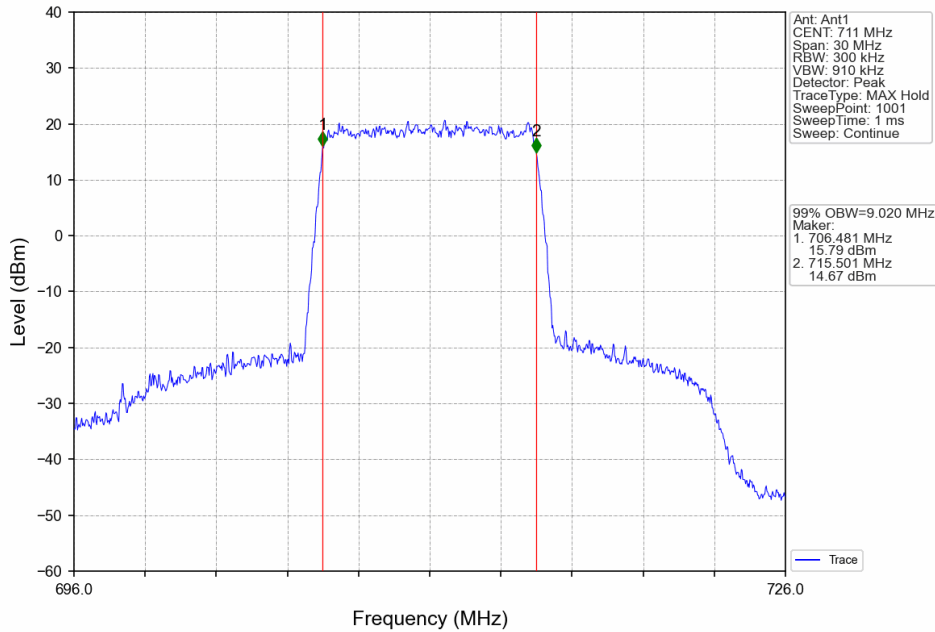


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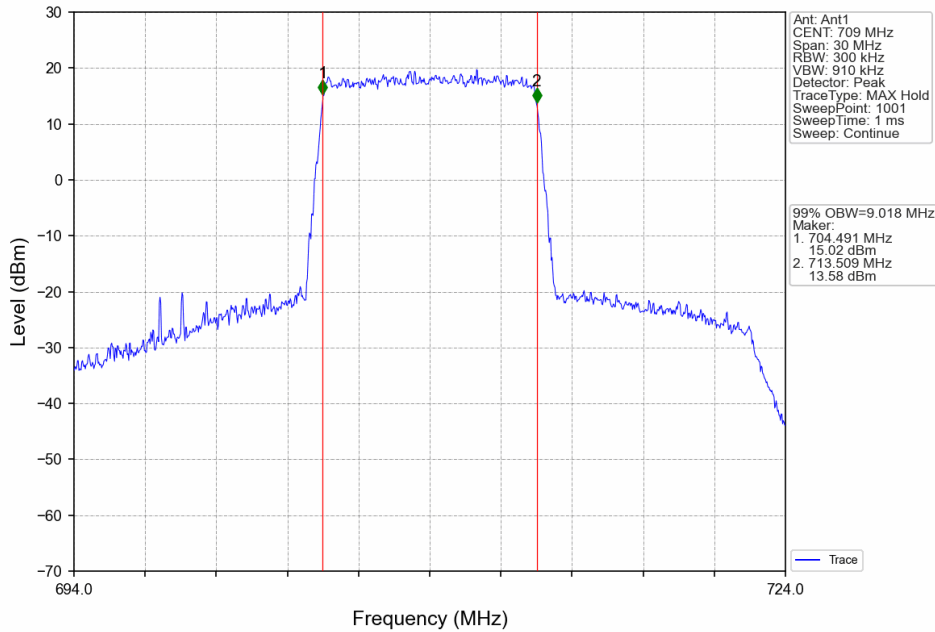
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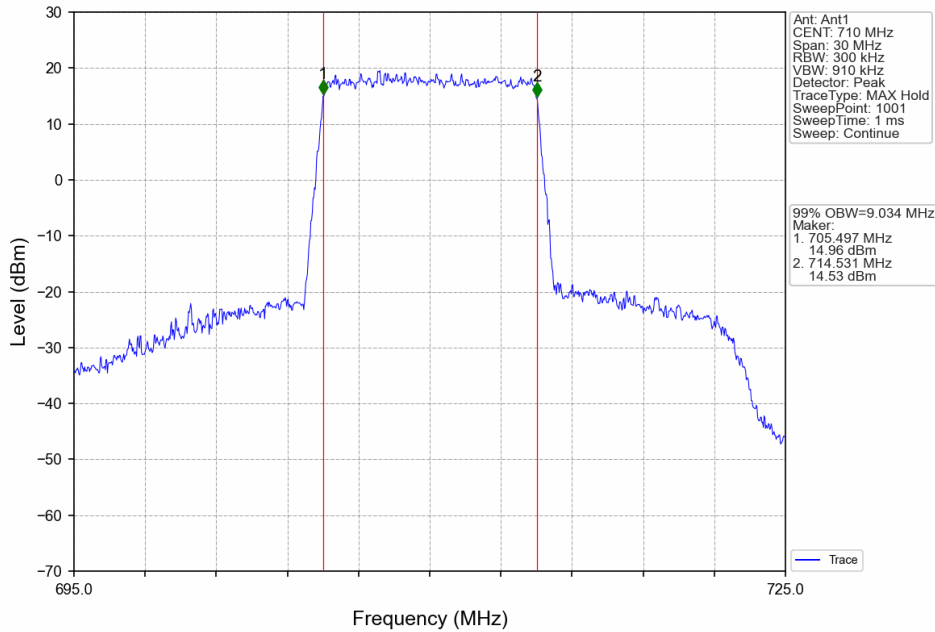
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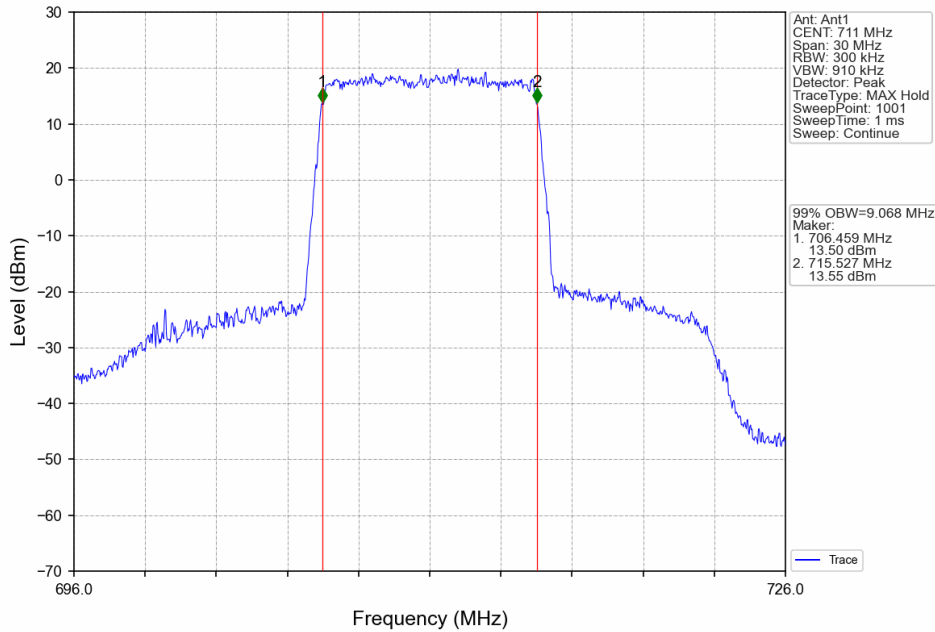


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2.2 Band17_XDB

2.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.039	/	Pass
		710	25	0	5.051	/	Pass
		713.5	25	0	5.044	/	Pass
	16QAM	706.5	25	0	5.086	/	Pass
		710	25	0	5.084	/	Pass
		713.5	25	0	5.042	/	Pass
	64QAM	706.5	25	0	5.047	/	Pass
		710	25	0	5.061	/	Pass
		713.5	25	0	5.018	/	Pass
10	QPSK	709	50	0	10.019	/	Pass
		710	50	0	9.970	/	Pass
		711	50	0	9.961	/	Pass
	16QAM	709	50	0	9.976	/	Pass
		710	50	0	9.890	/	Pass
		711	50	0	9.951	/	Pass
	64QAM	709	50	0	9.970	/	Pass
		710	50	0	9.937	/	Pass
		711	50	0	9.964	/	Pass

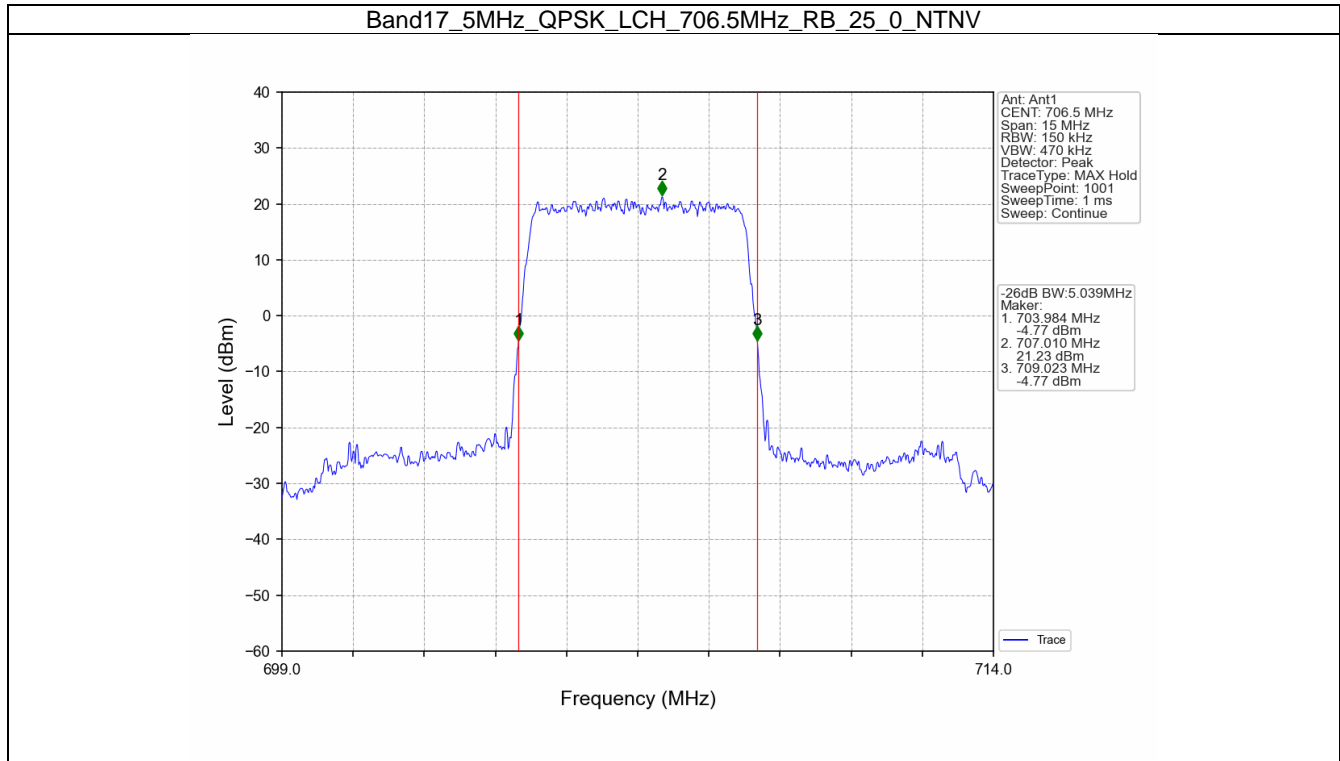


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2.2.2 Test Graph

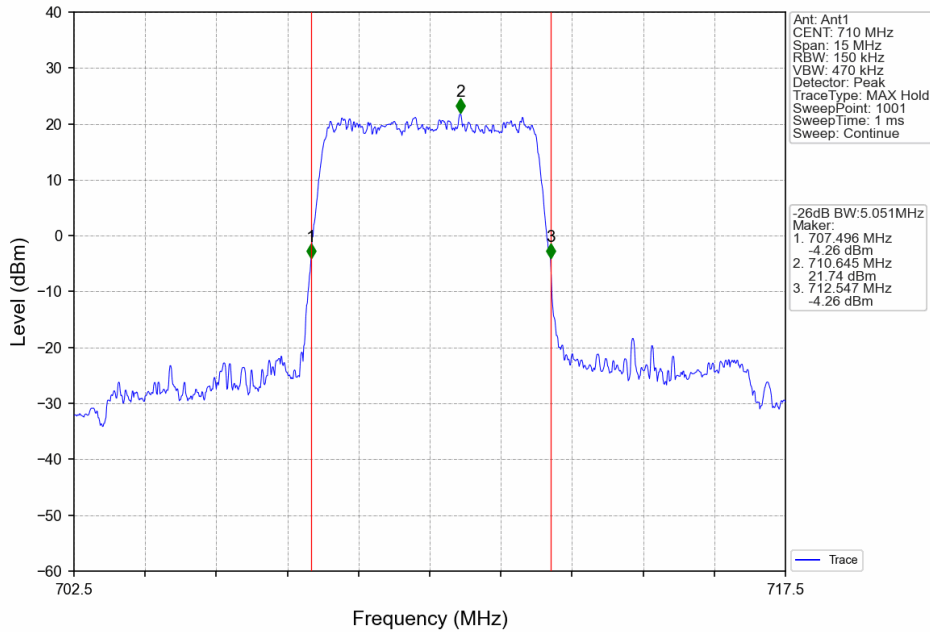


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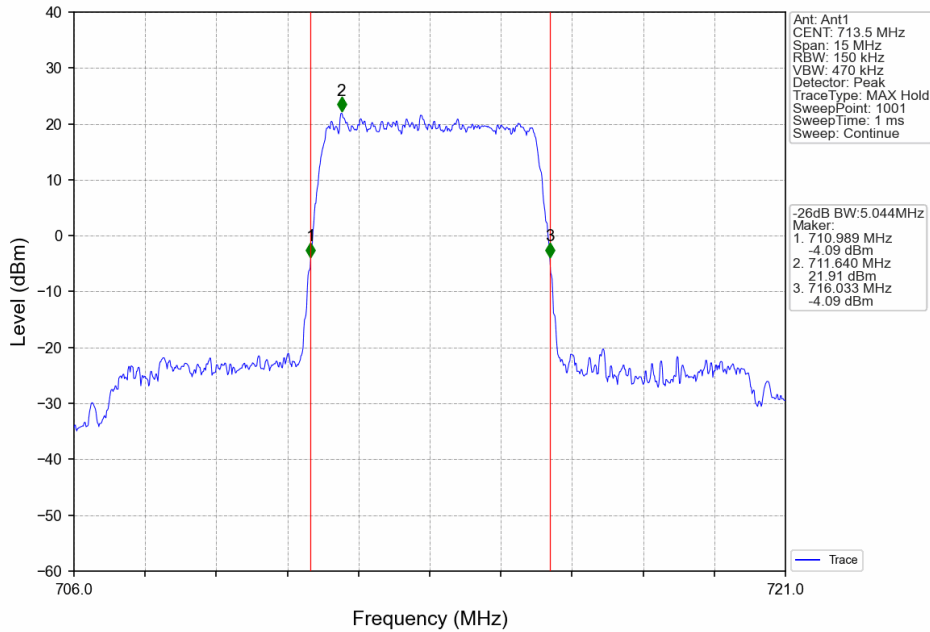
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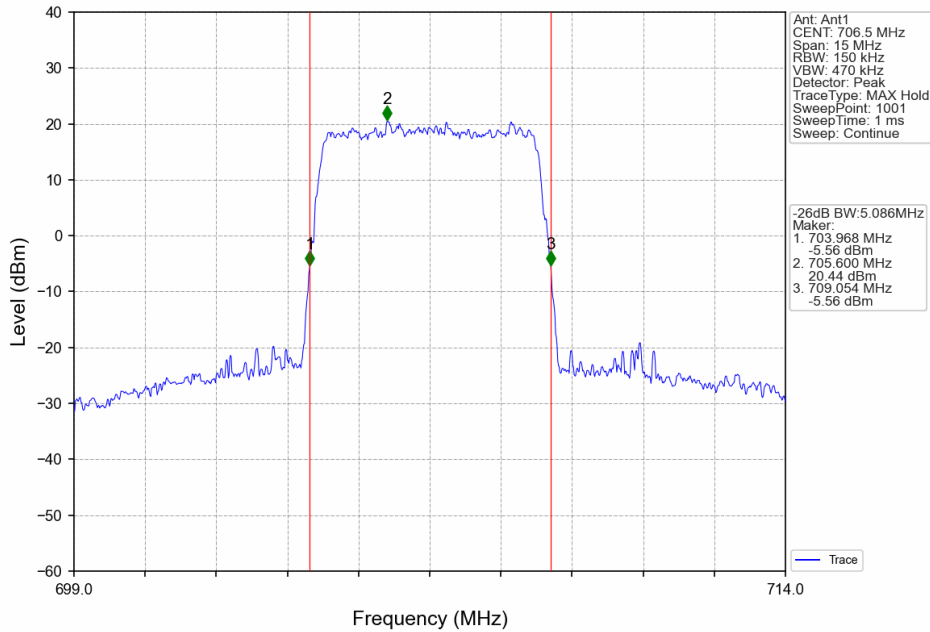


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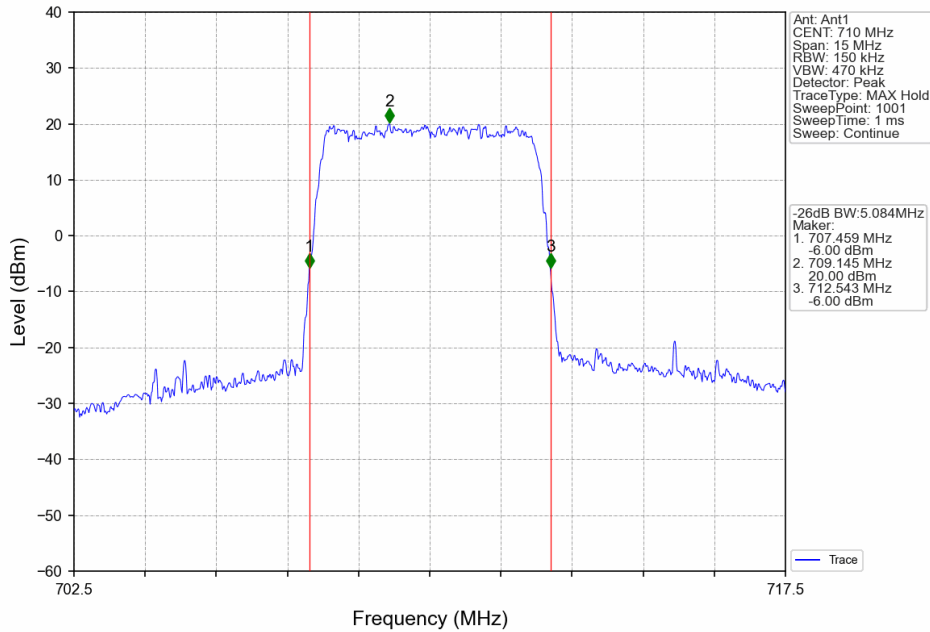


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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

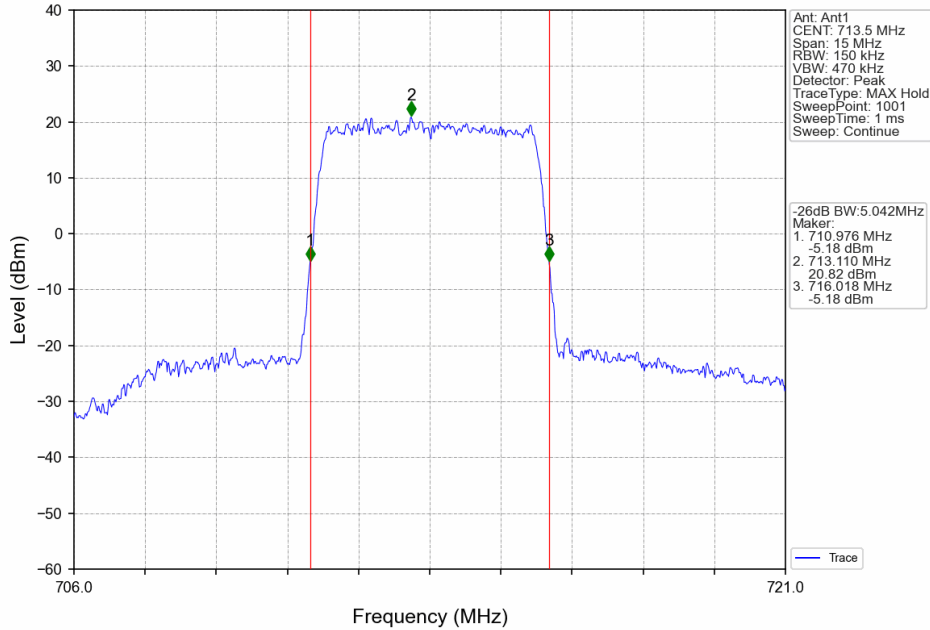


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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

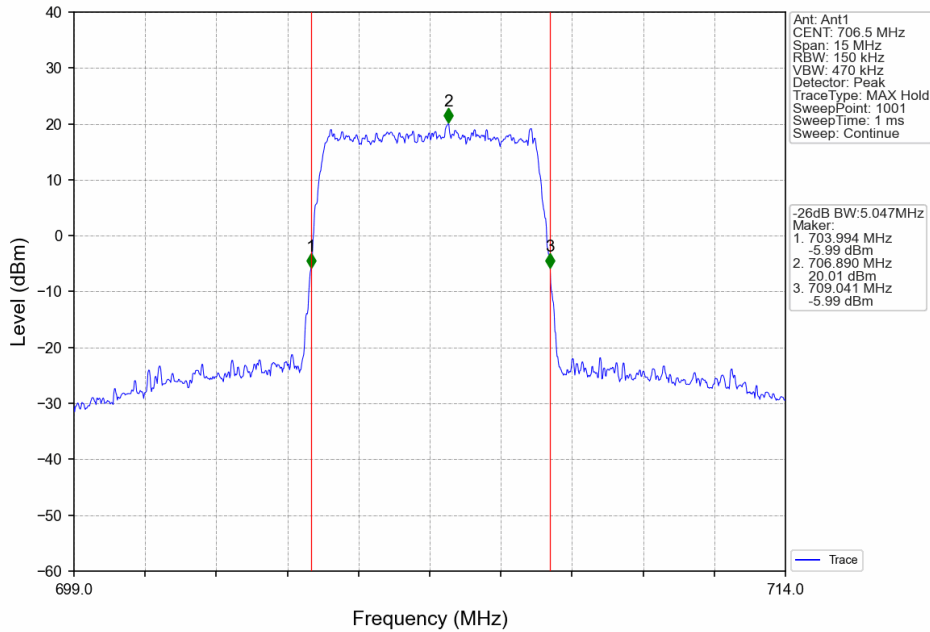


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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV

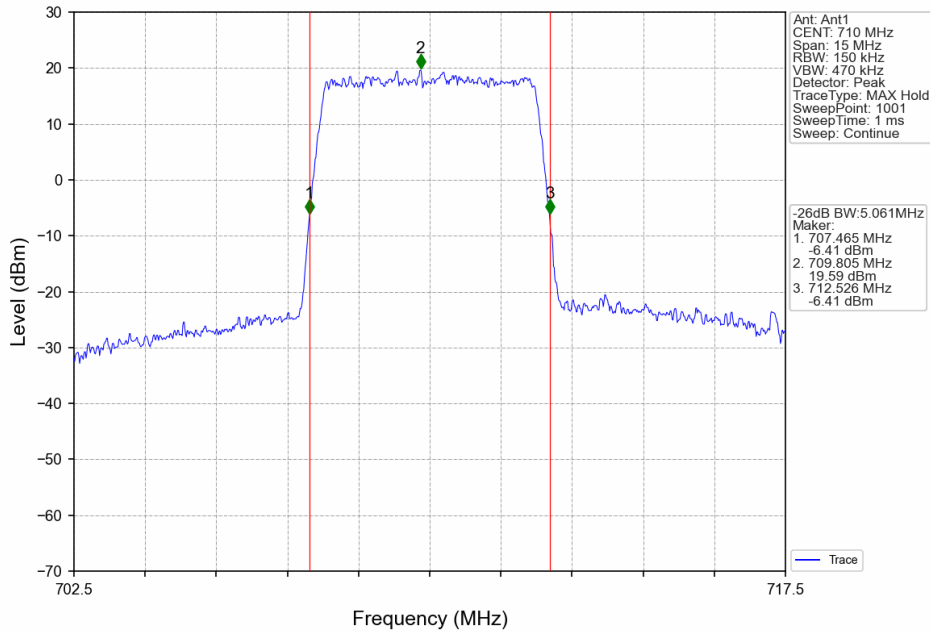


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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



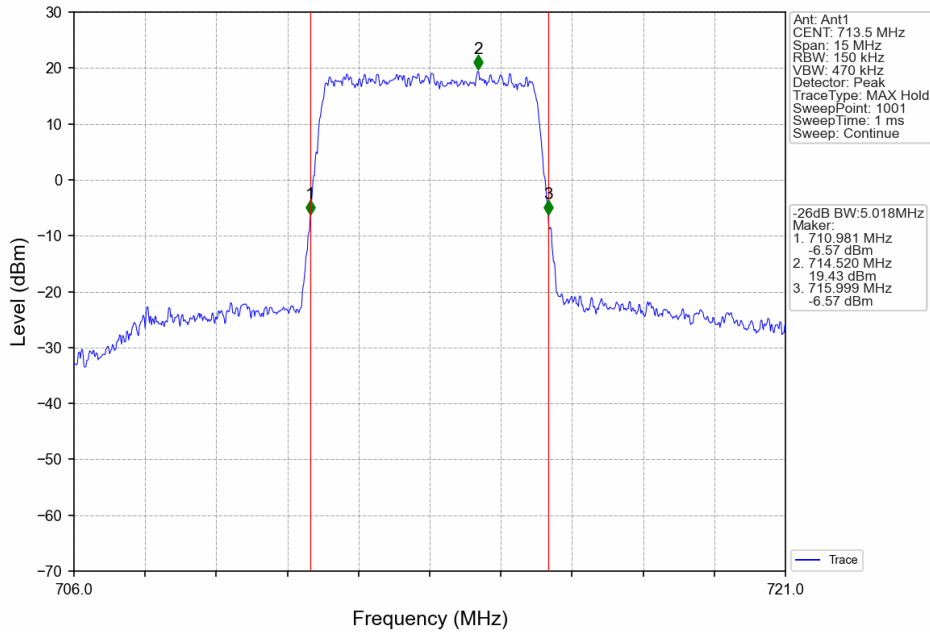
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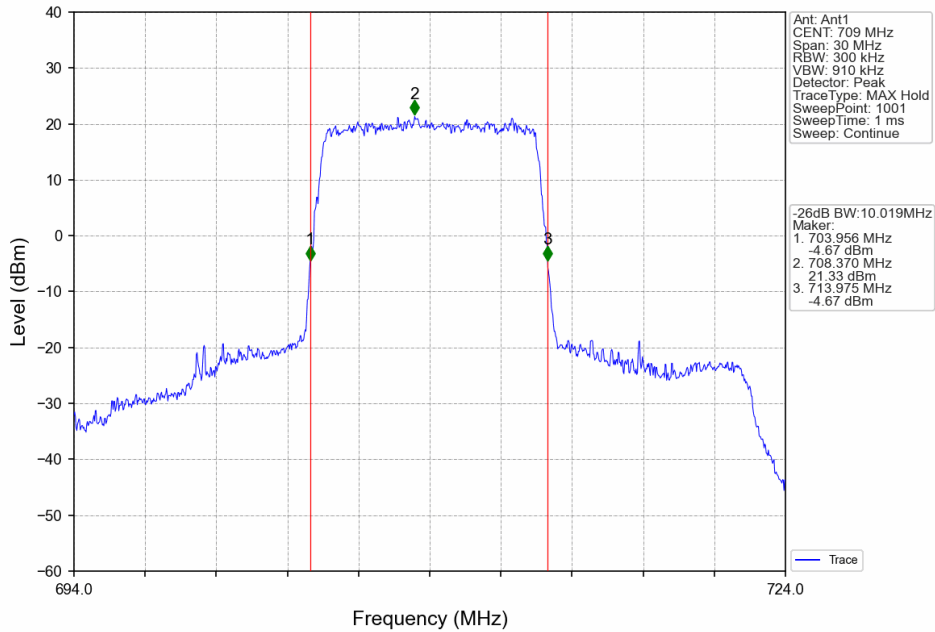


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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

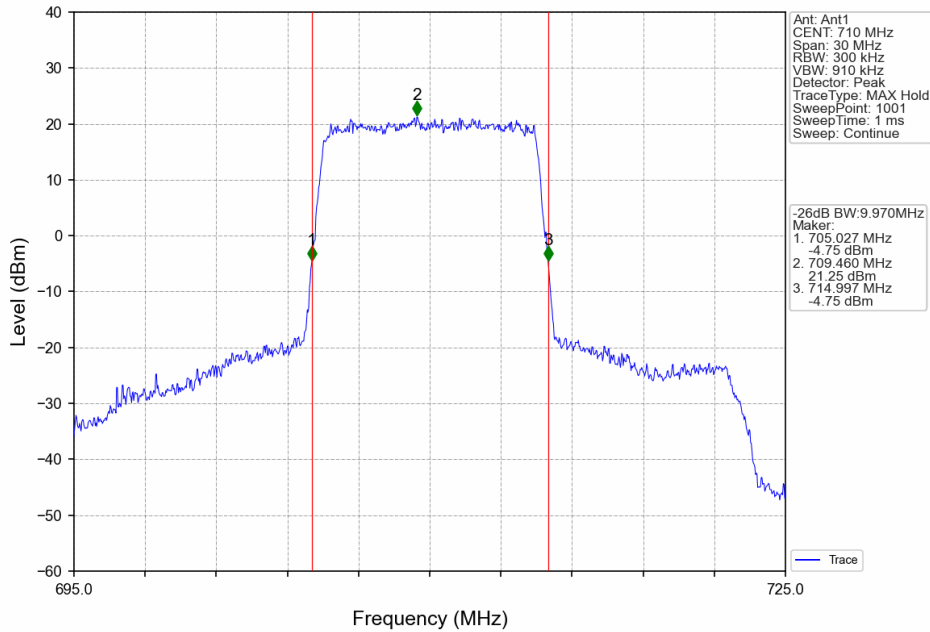


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Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

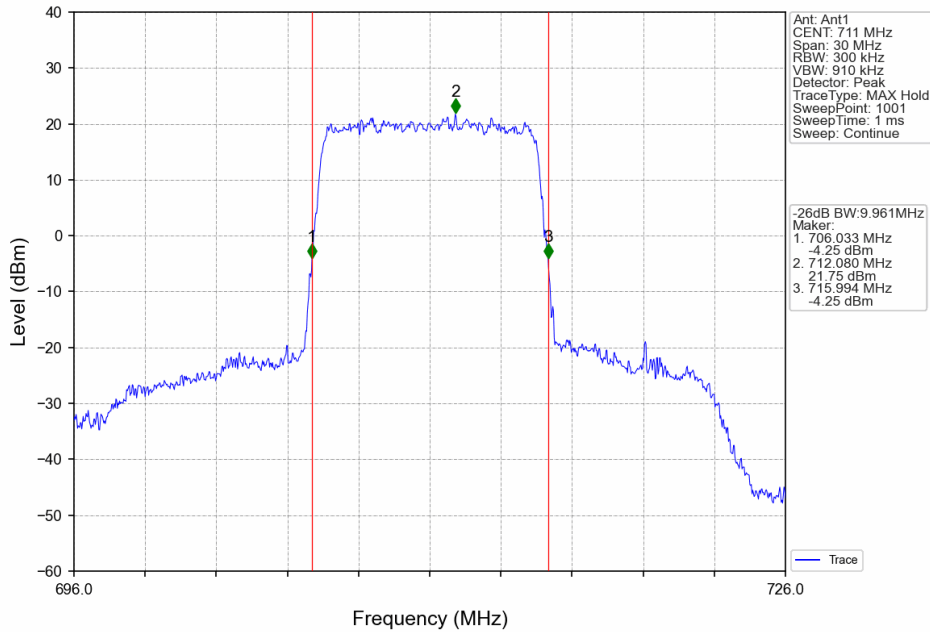


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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

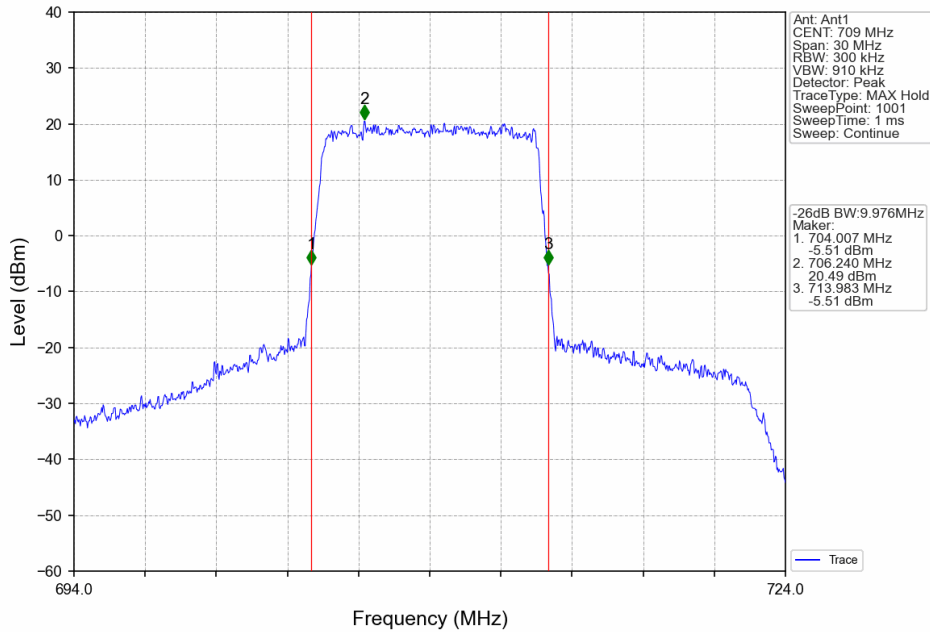


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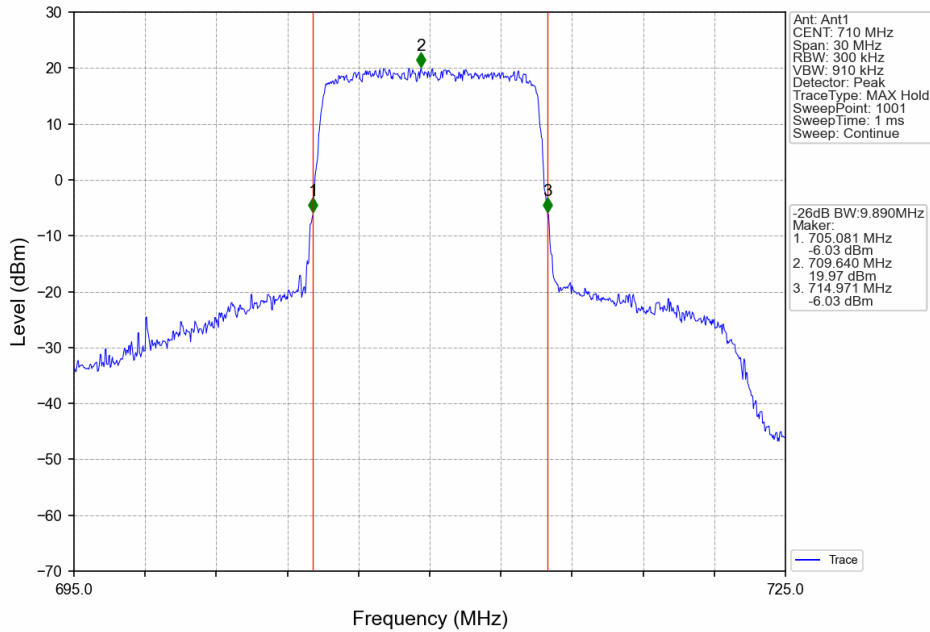


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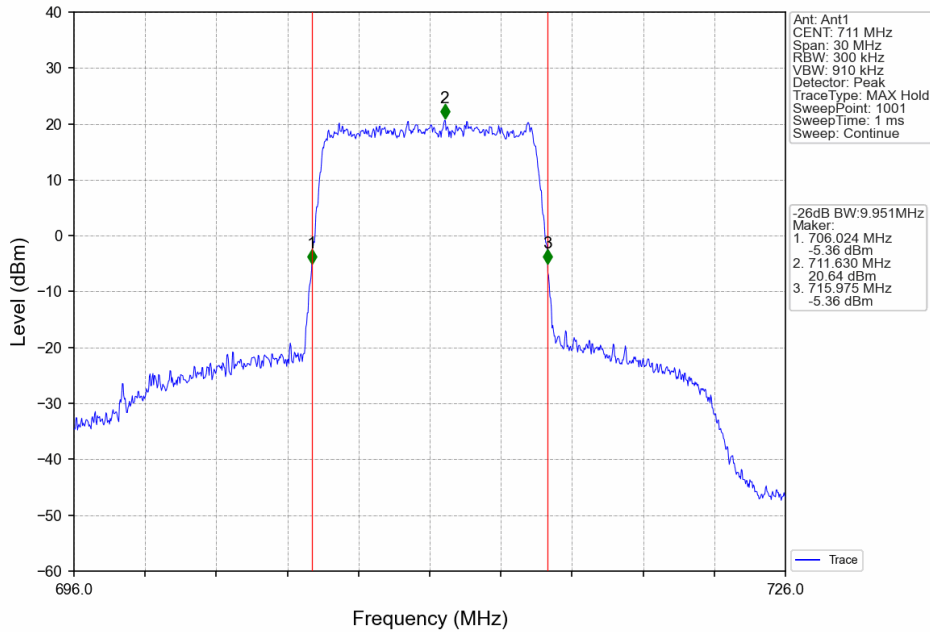


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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

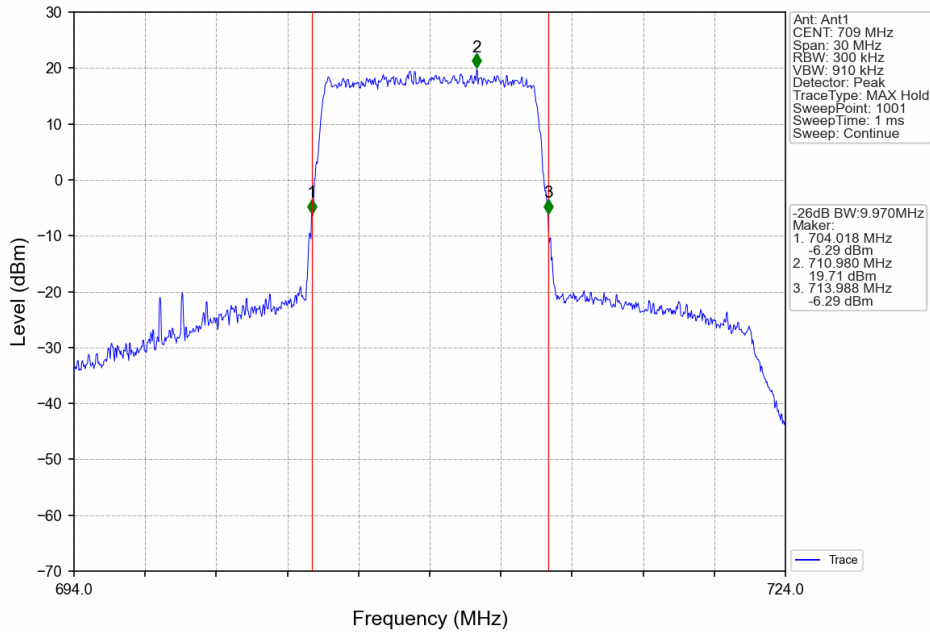


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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV

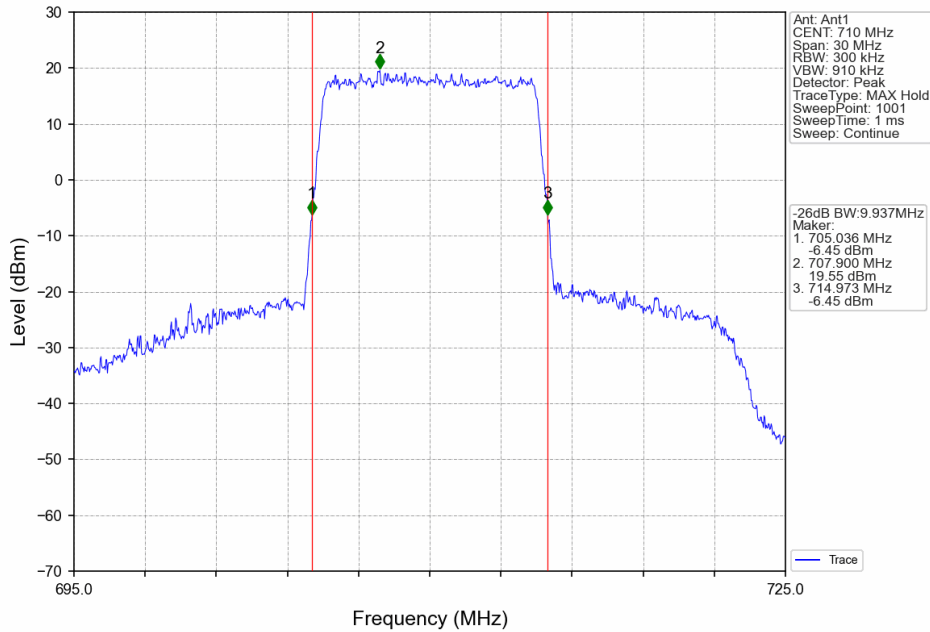


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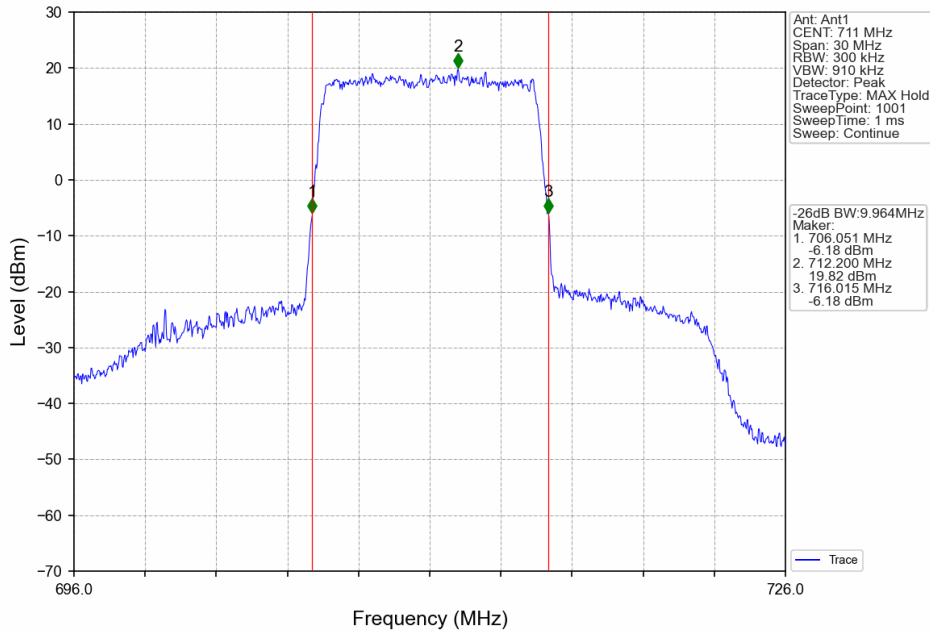
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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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3. Peak-Average Ratio

3.1 B17_5MHz

3.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.23	<=13	Pass
	710	25	0	5.24	<=13	Pass
	713.5	25	0	5.14	<=13	Pass
16QAM	706.5	25	0	5.97	<=13	Pass
	710	25	0	5.95	<=13	Pass
	713.5	25	0	5.88	<=13	Pass
64QAM	706.5	25	0	6.49	<=13	Pass
	710	25	0	6.53	<=13	Pass
	713.5	25	0	6.41	<=13	Pass



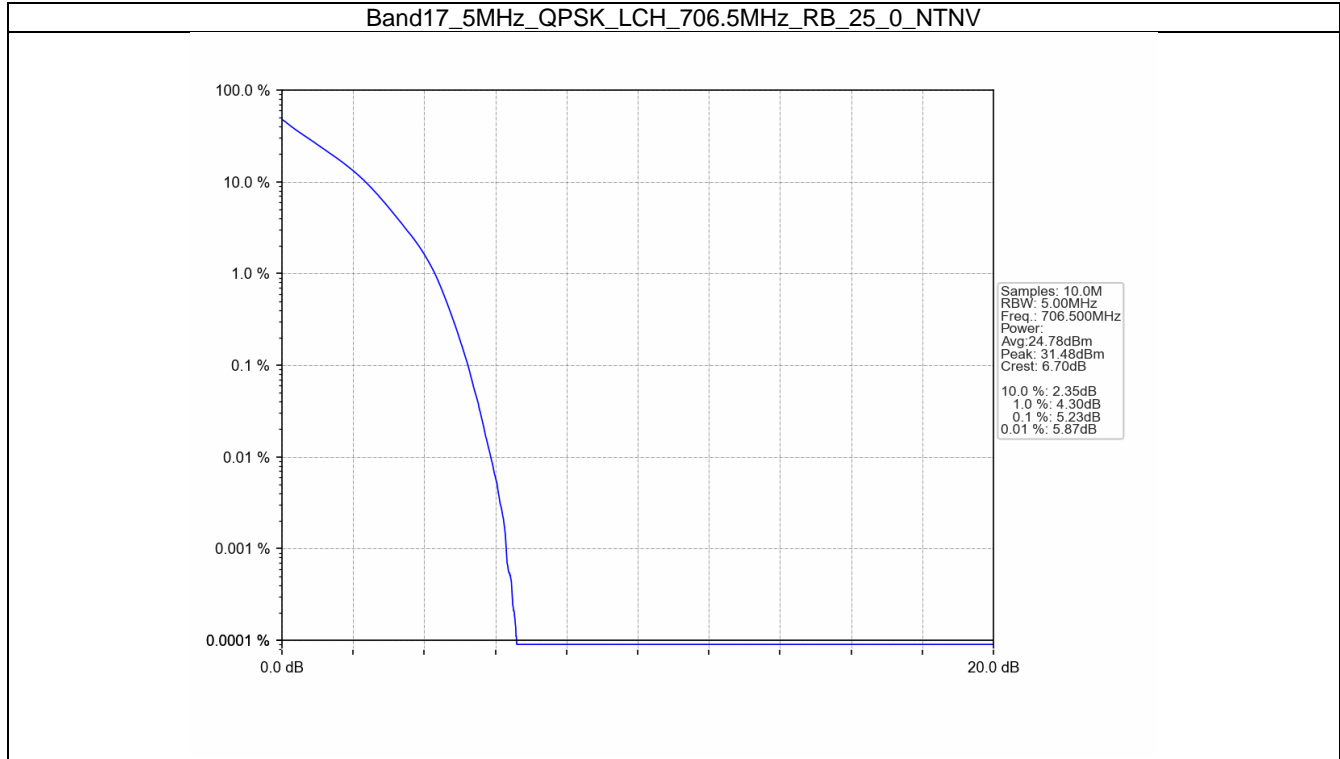
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3.1.2 Test Graph



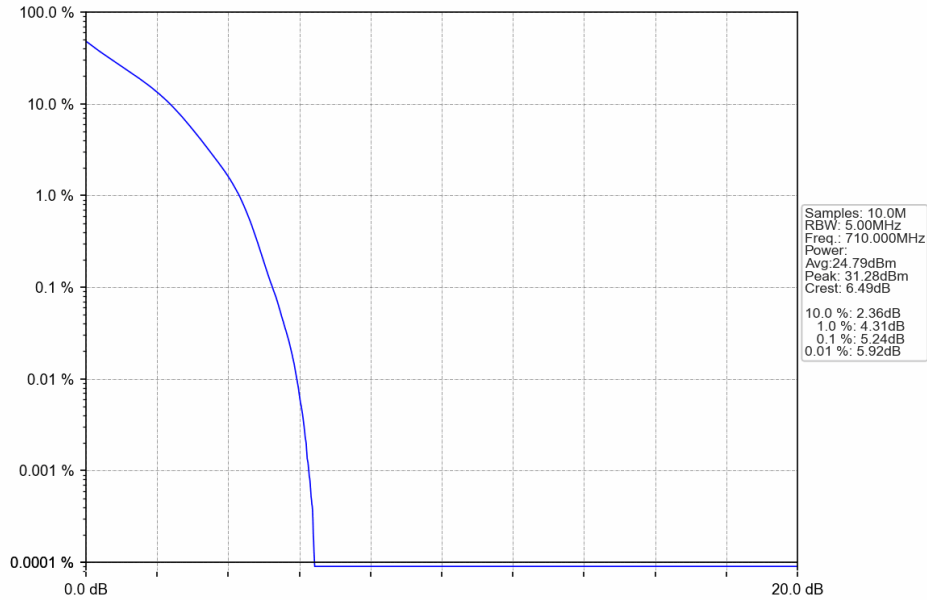
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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



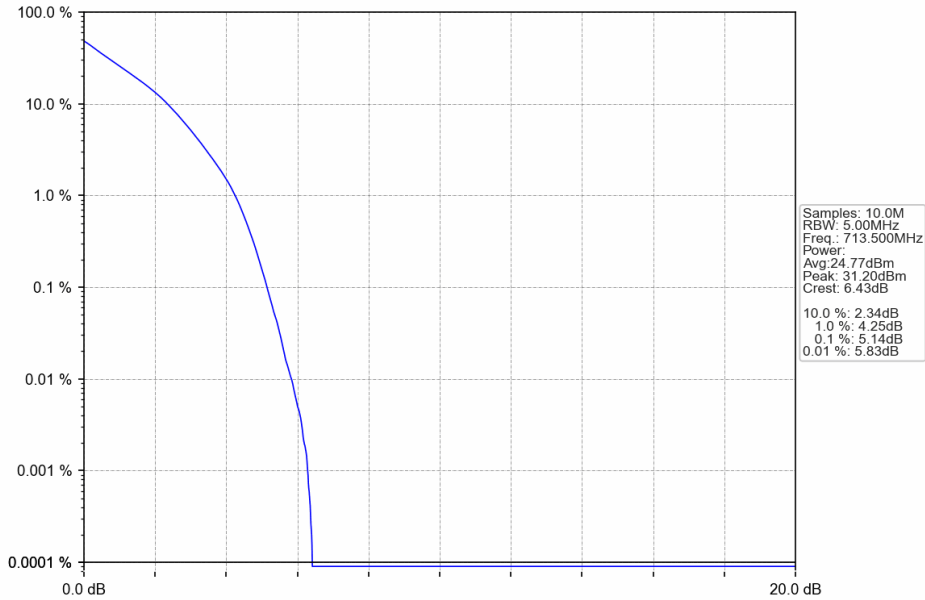
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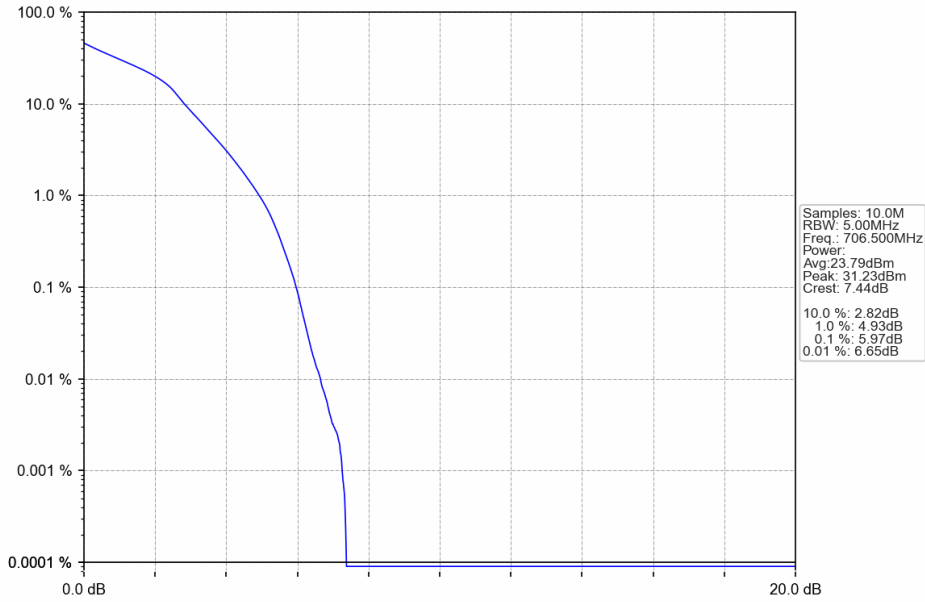
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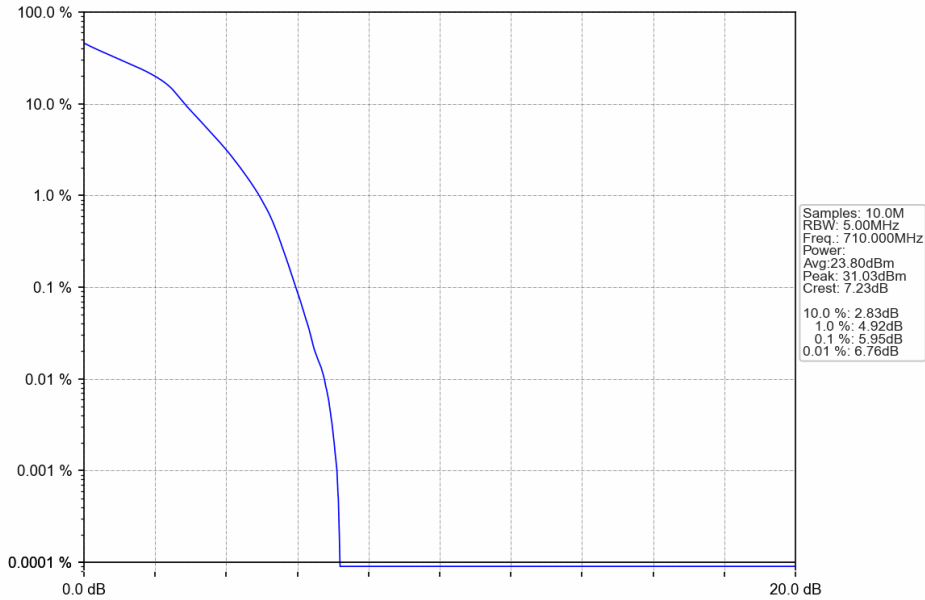
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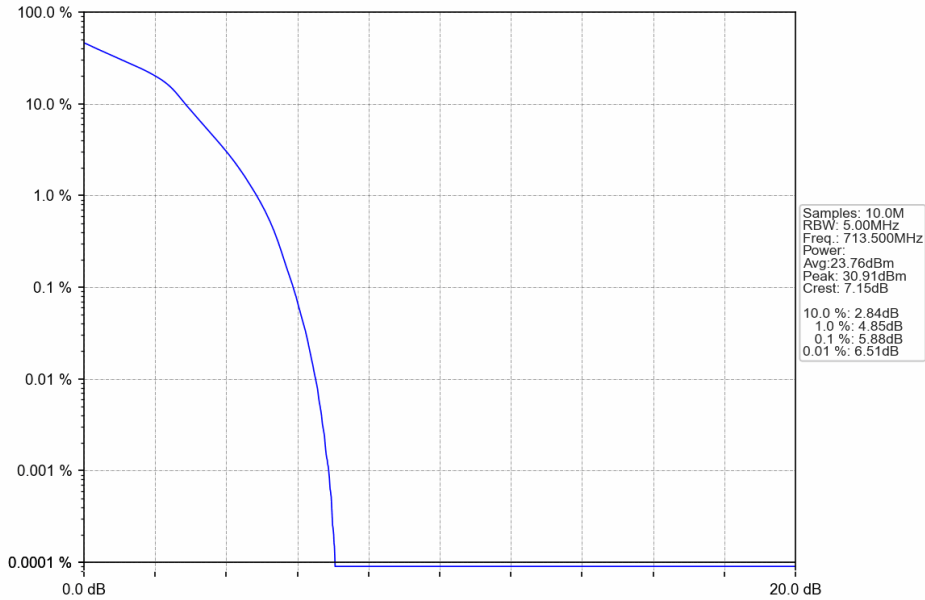


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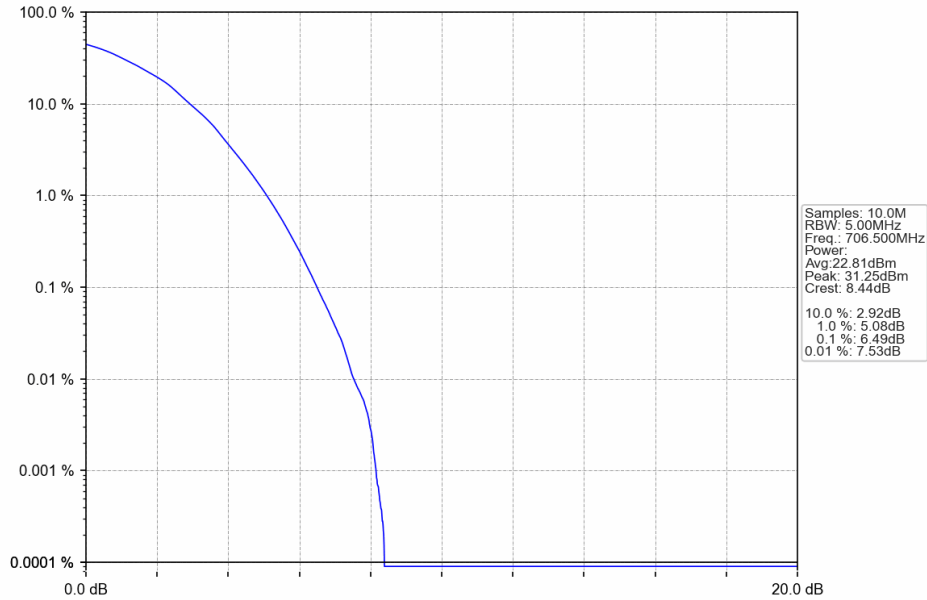
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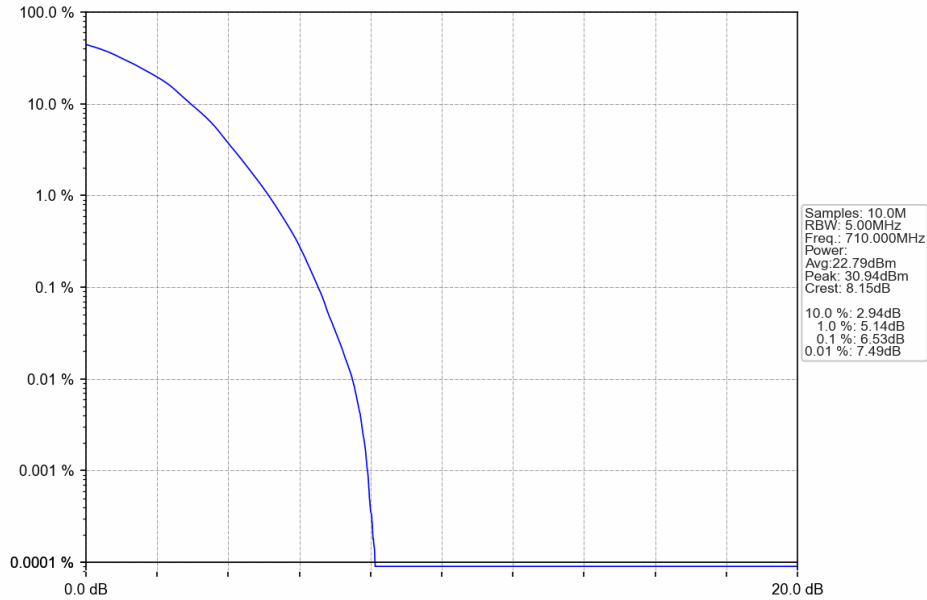
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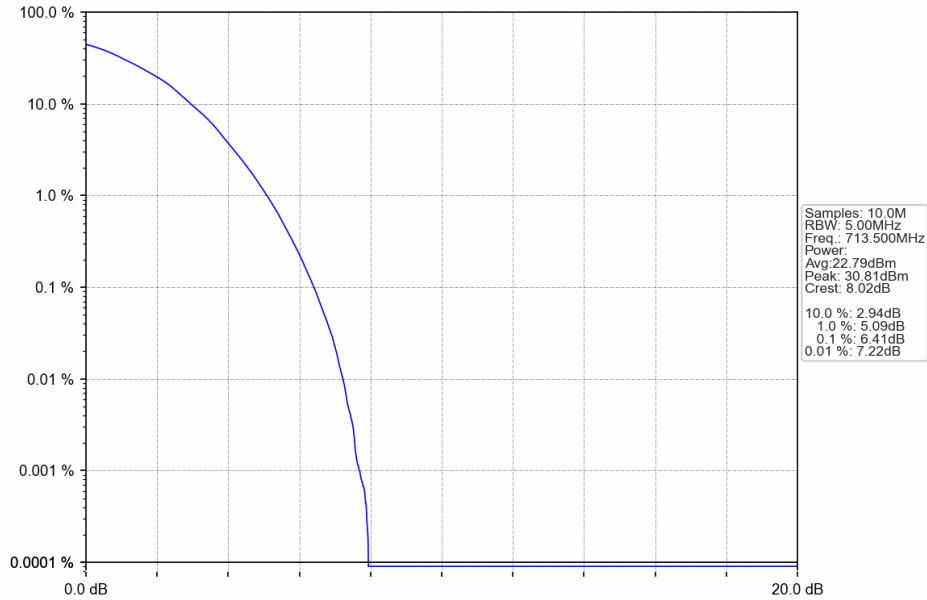
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3.2 B17_10MHz

3.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.17	<=13	Pass
	710	50	0	5.14	<=13	Pass
	711	50	0	5.11	<=13	Pass
16QAM	709	50	0	5.92	<=13	Pass
	710	50	0	5.93	<=13	Pass
	711	50	0	5.88	<=13	Pass
64QAM	709	50	0	6.40	<=13	Pass
	710	50	0	6.48	<=13	Pass
	711	50	0	6.43	<=13	Pass

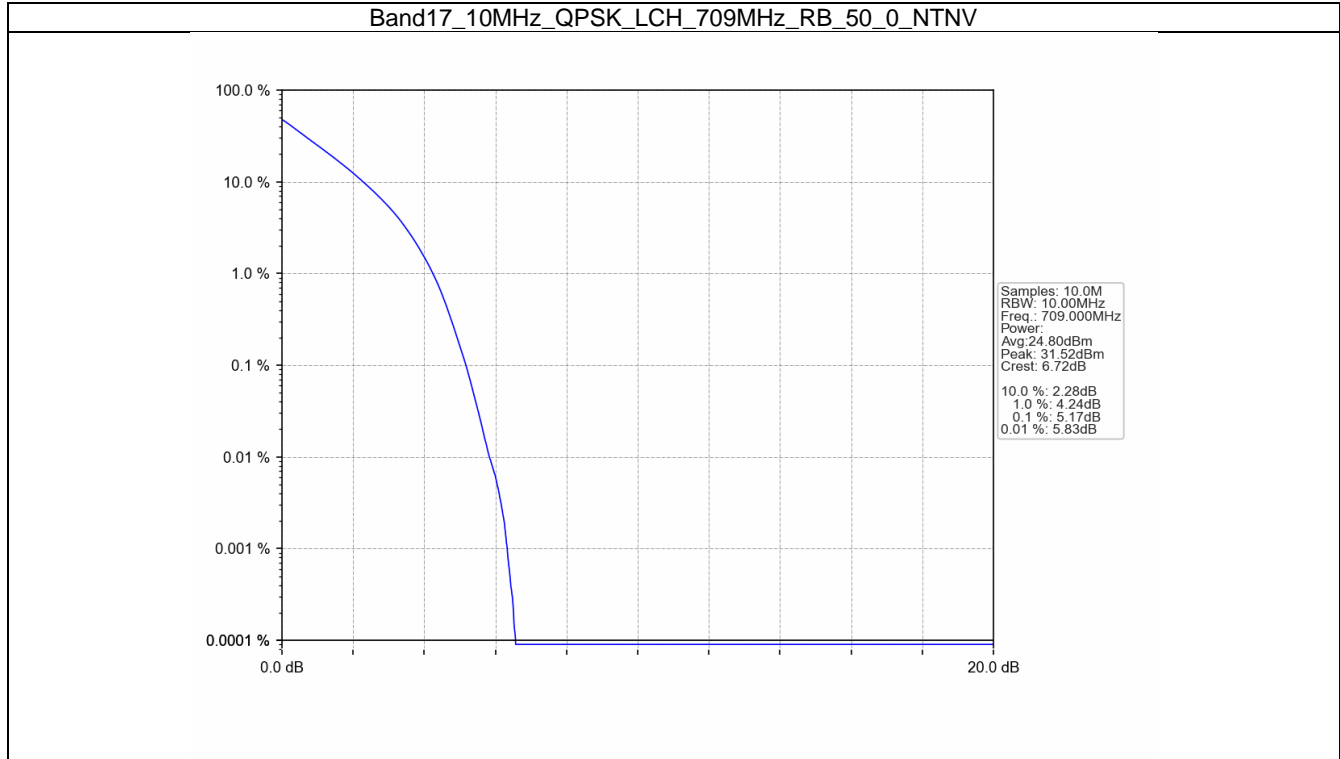


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3.2.2 Test Graph



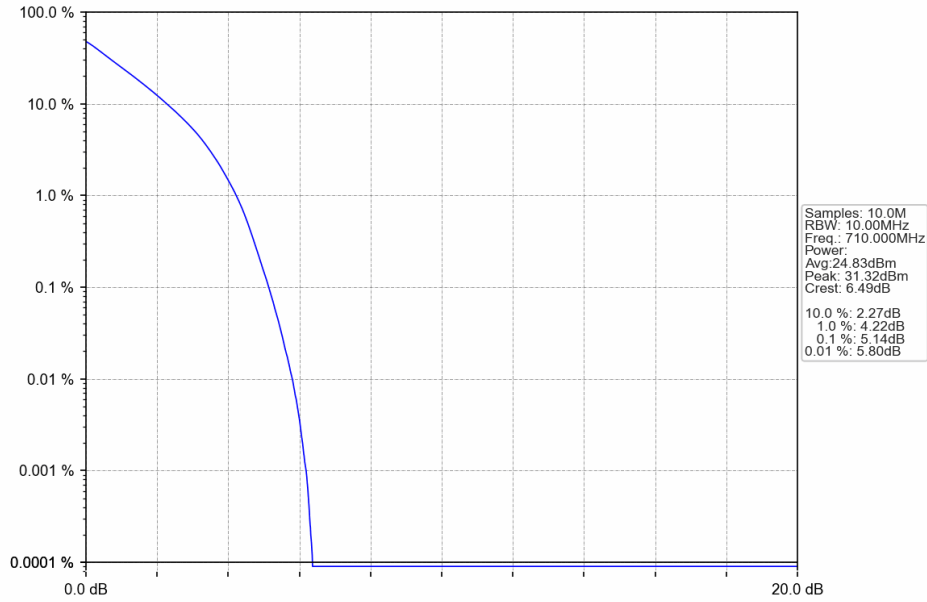
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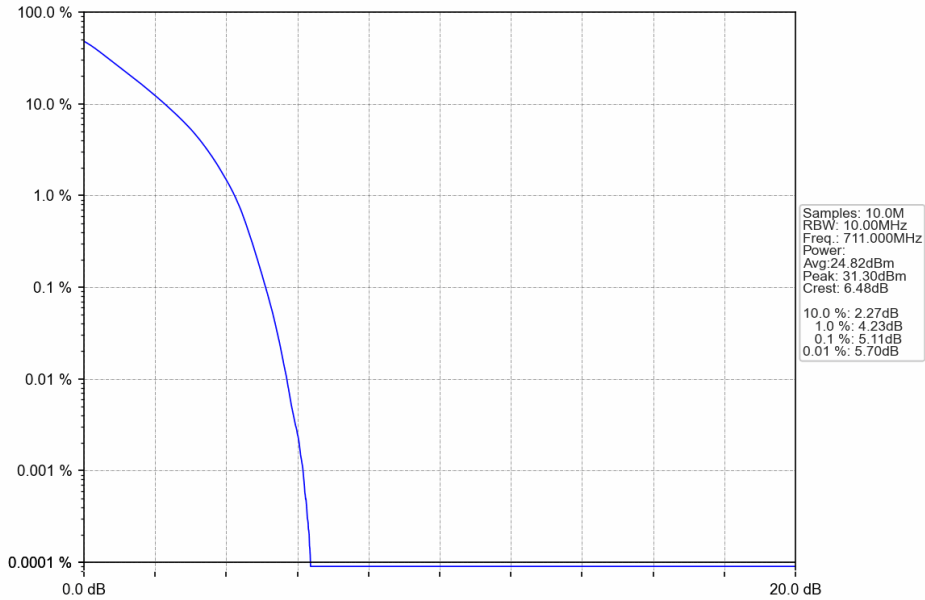
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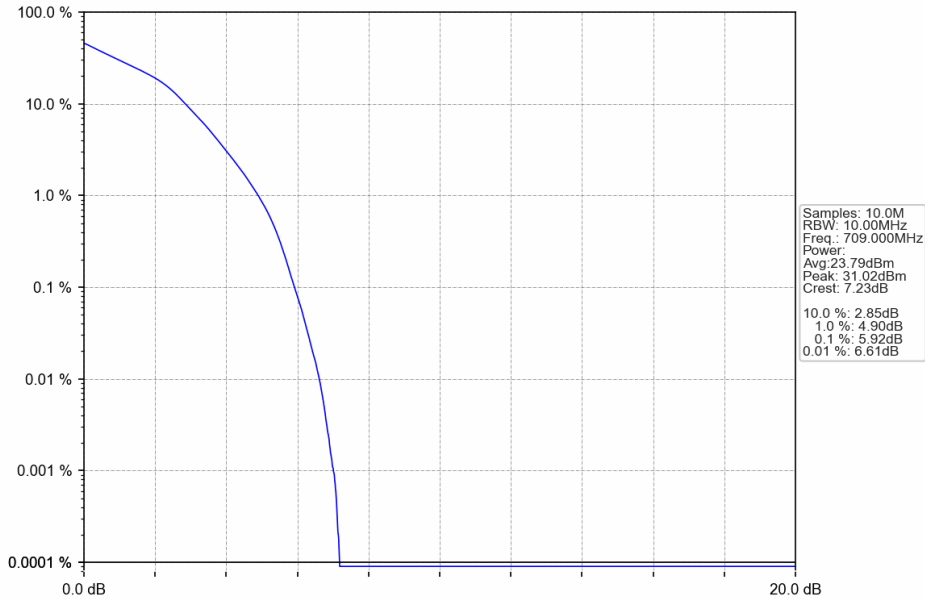
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



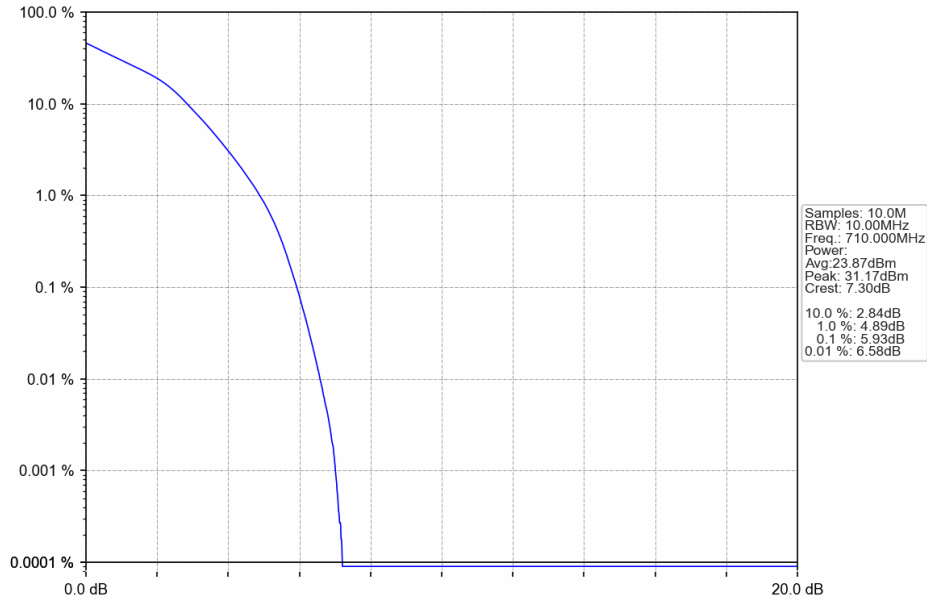
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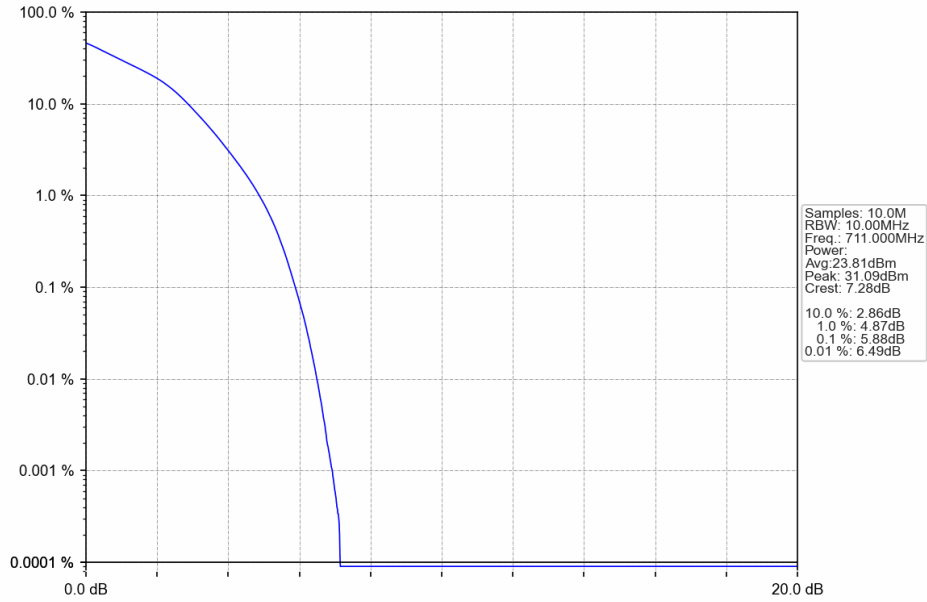


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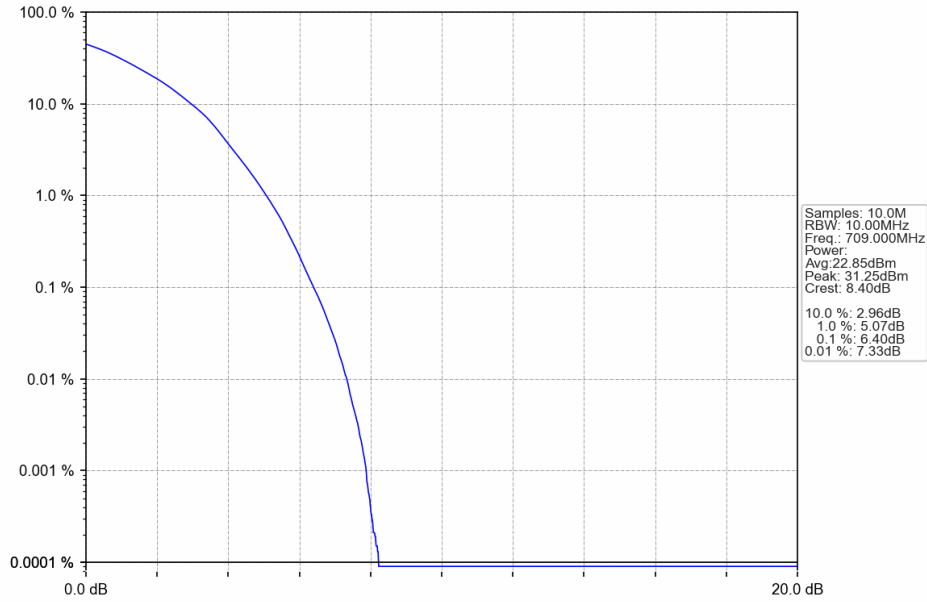
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



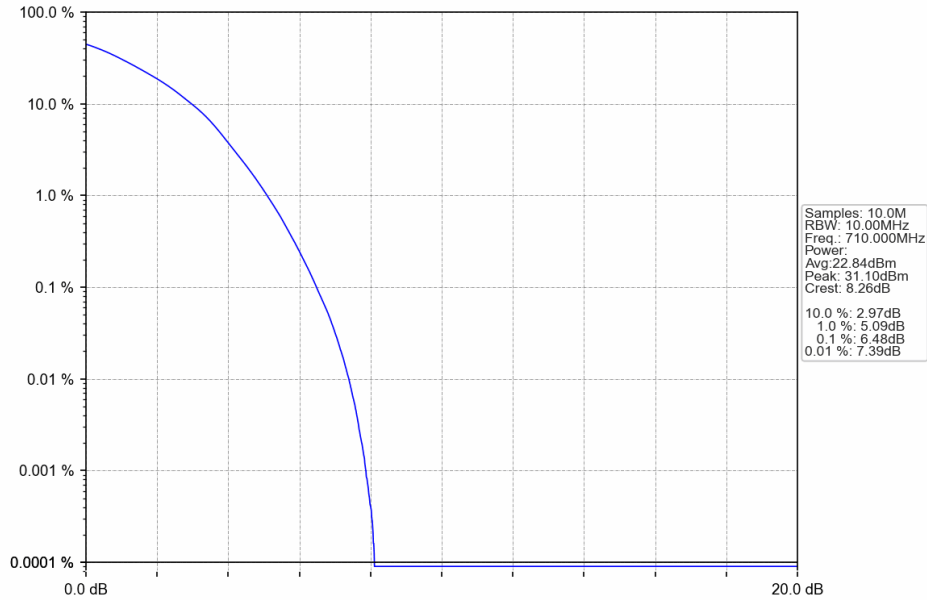
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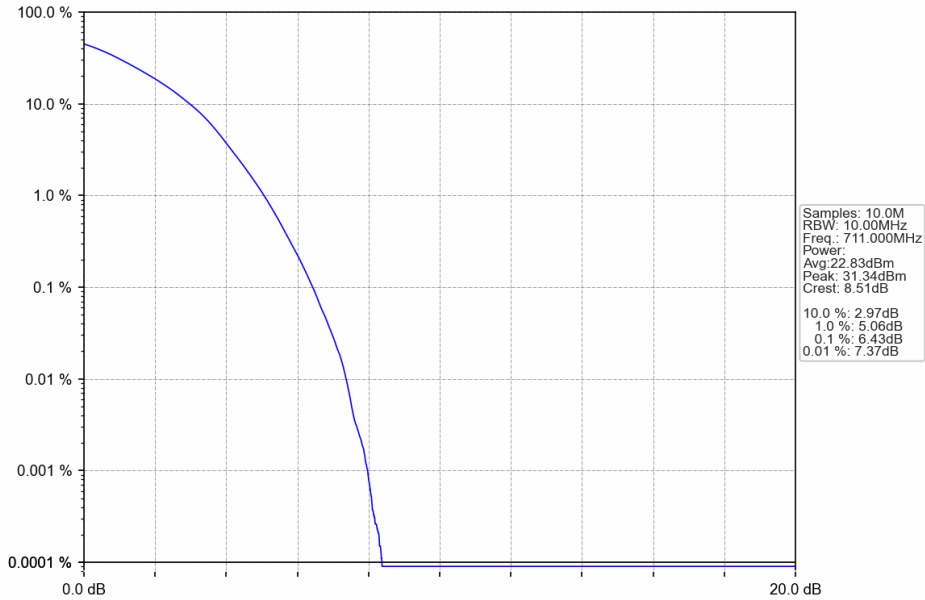
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Samples: 10.0M
 RBW: 10.00MHz
 Freq.: 711.000MHz
 Power:
 Avg: 22.83dBm
 Peak: 31.34dBm
 Crest: 8.51dB

10.0 %: 2.97dB
 1.0 %: 5.06dB
 0.1 %: 6.43dB
 0.01 %: 7.37dB



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4. Spurious Emission & Band Edges

4.1 B17_5MHz

4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

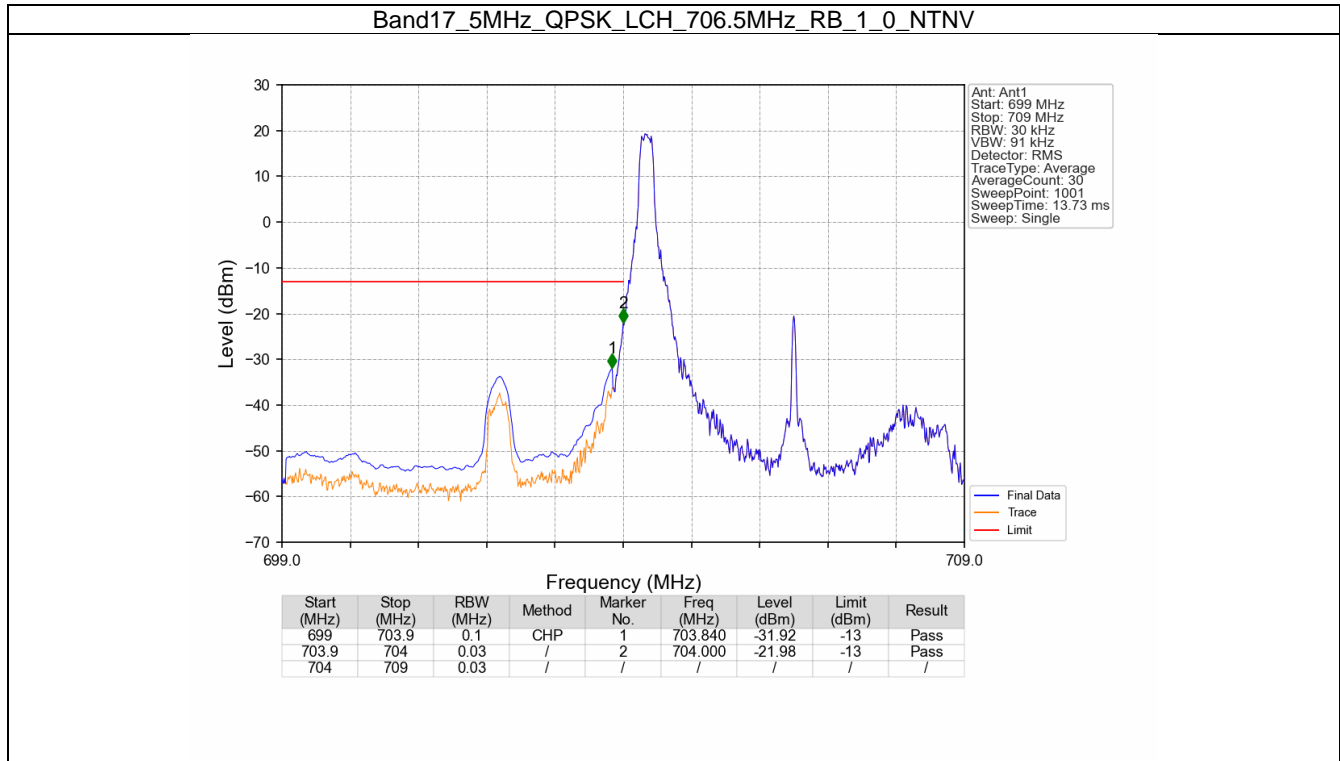


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4.1.2 Test Graph



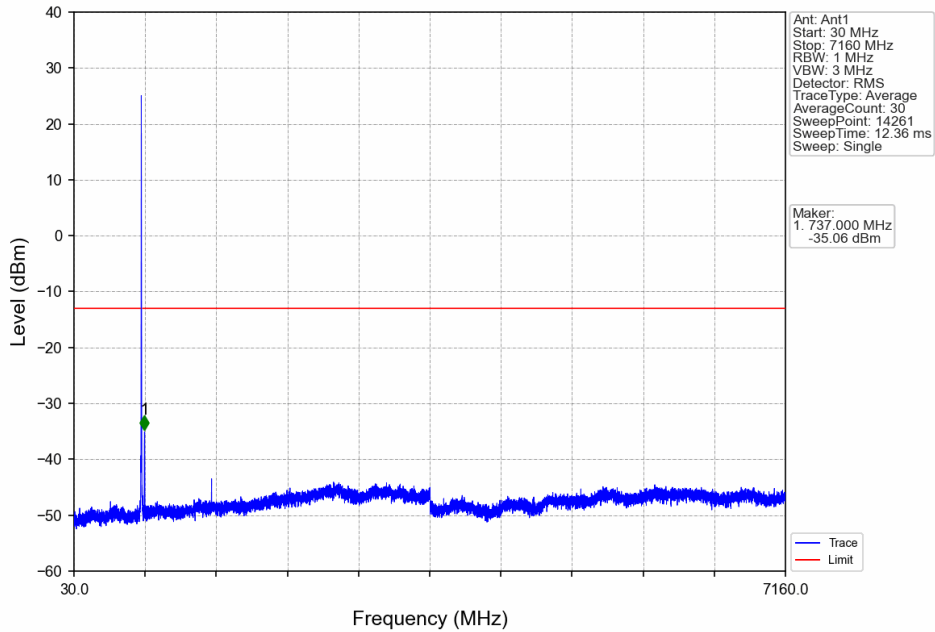
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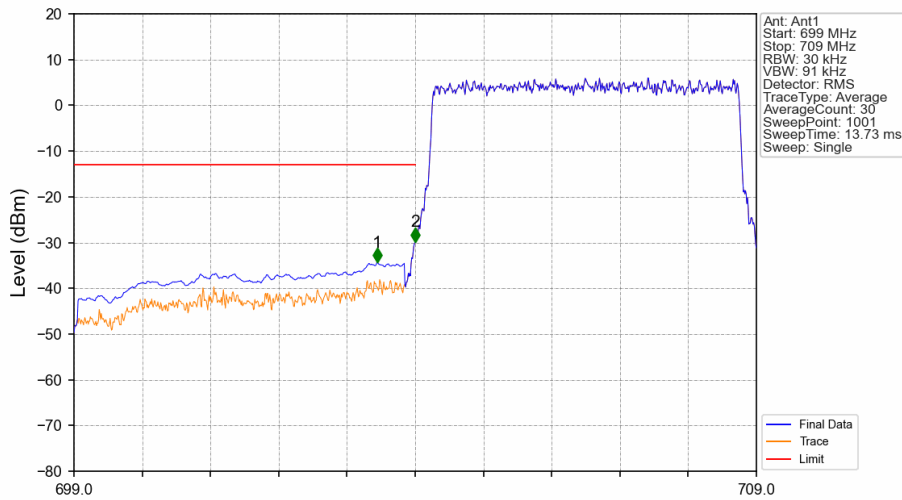
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.440	-34.36	-13	Pass
703.9	704	0.03	/	2	704.000	-29.85	-13	Pass
704	709	0.03	/	/	/	/	/	/



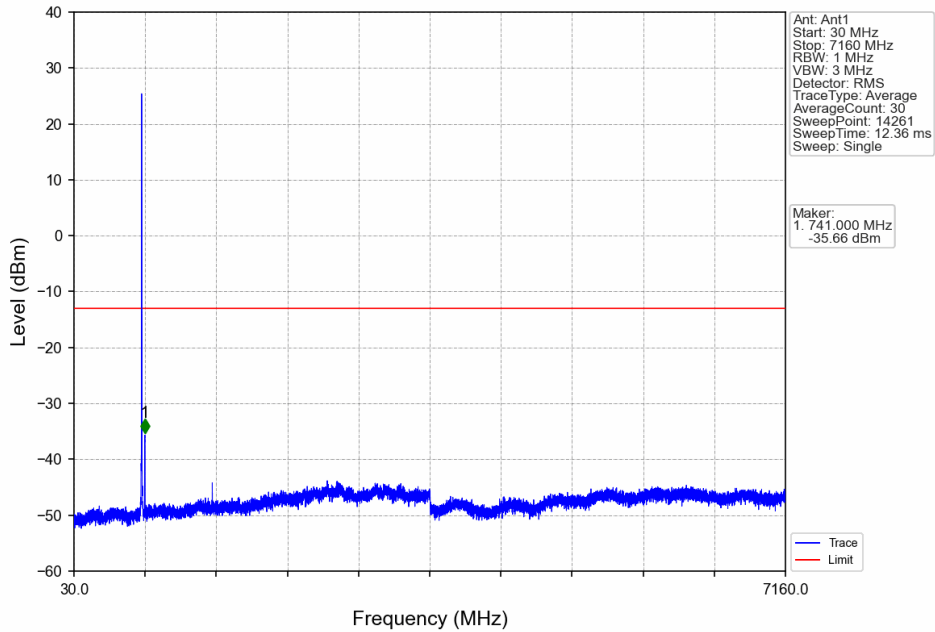
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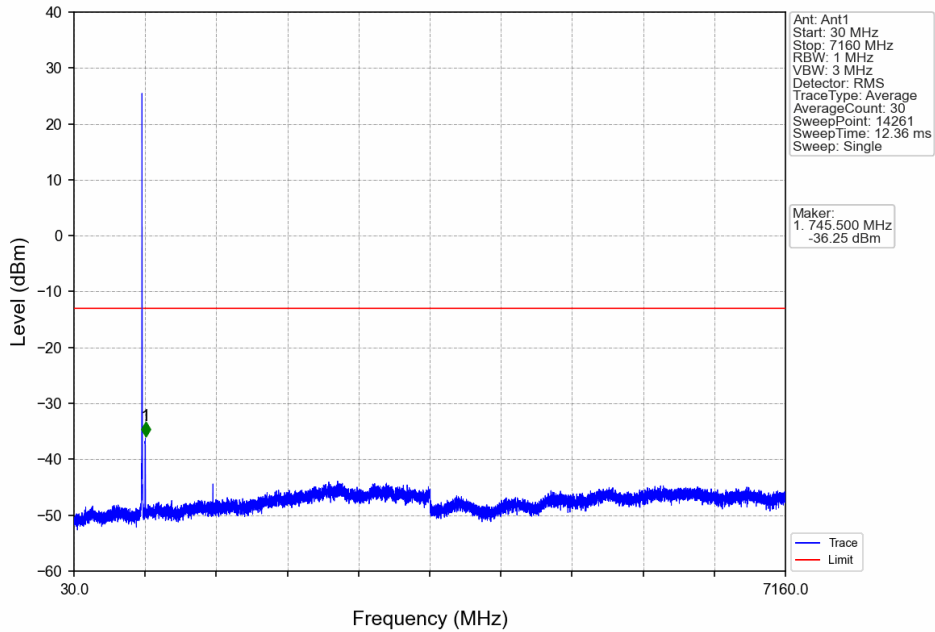


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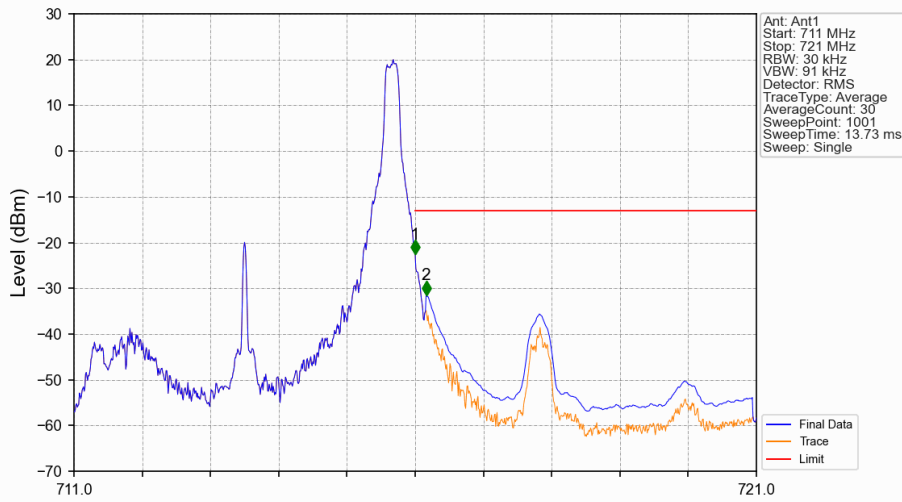


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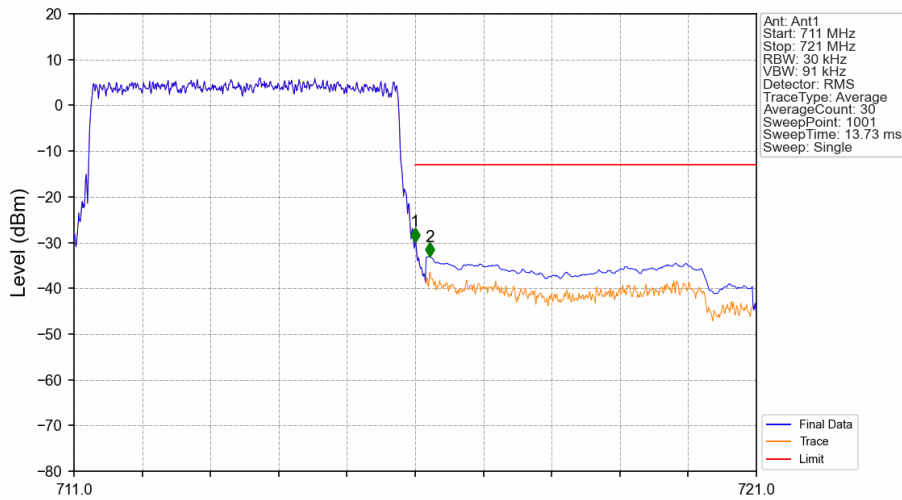
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.63	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.46	-13	Pass



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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-29.85	-13	Pass
716.1	721	0.1	CHP	2	716.210	-33.03	-13	Pass



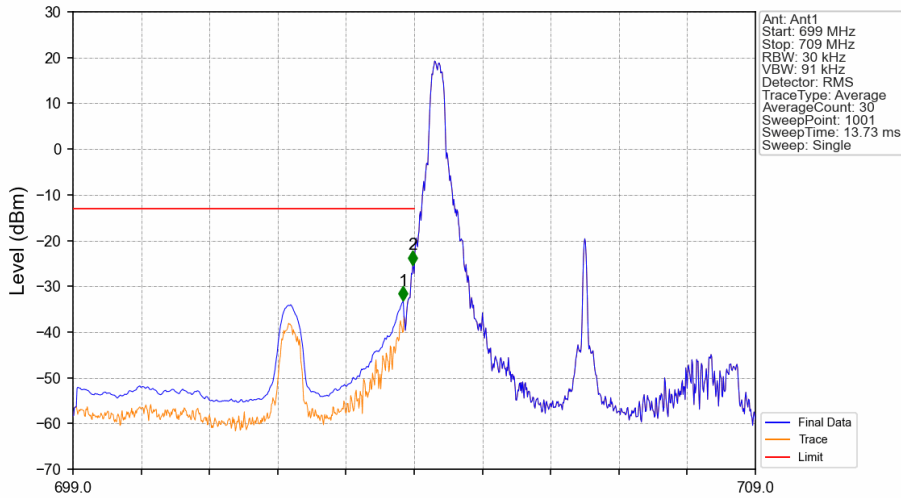
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-33.15	-13	Pass
703.9	704	0.03	/	2	703.980	-25.29	-13	Pass
704	709	0.03	/	/	/	/	/	/



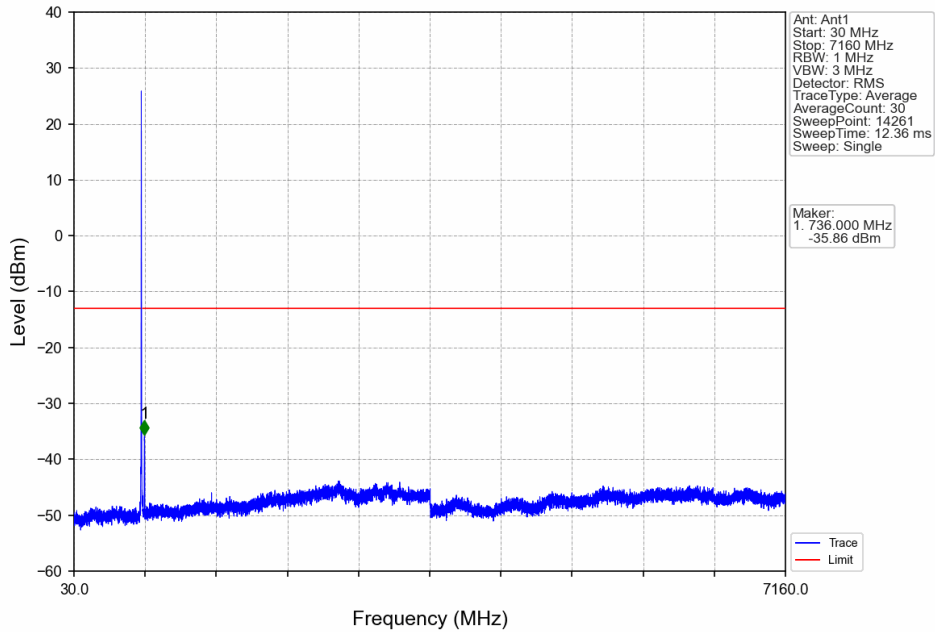
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



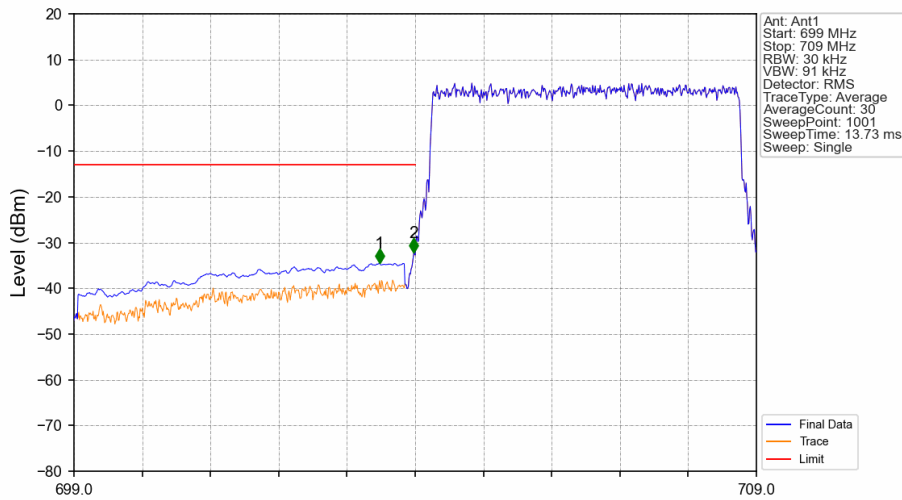
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.480	-34.56	-13	Pass
703.9	704	0.03	/	2	703.980	-32.24	-13	Pass
704	709	0.03	/	/	/	/	/	/



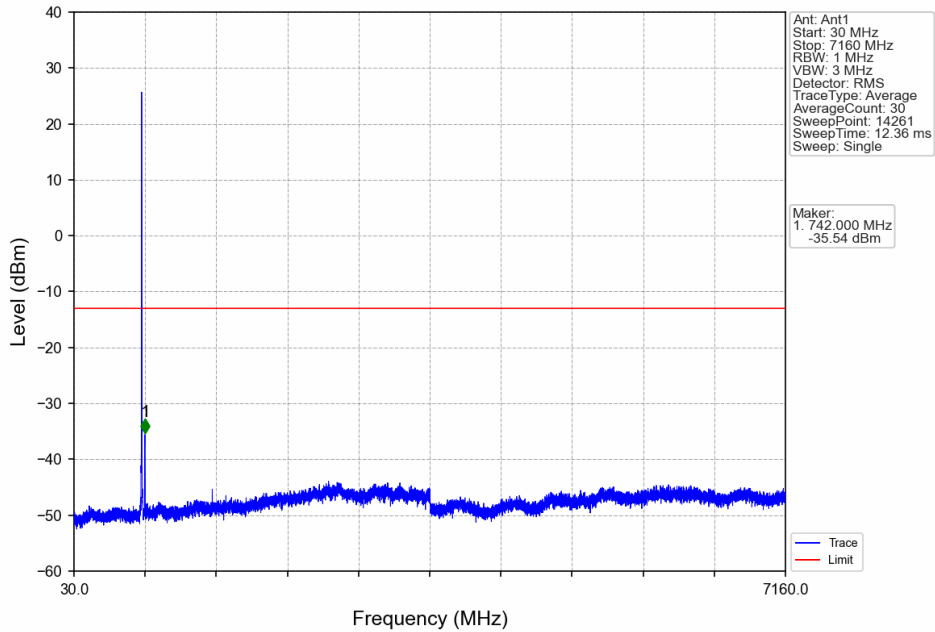
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Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



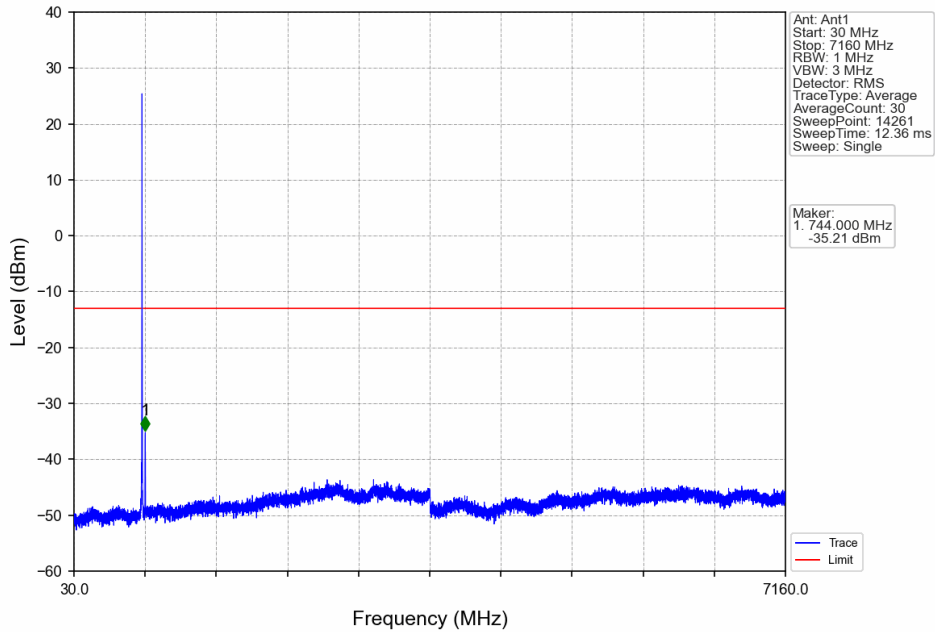
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



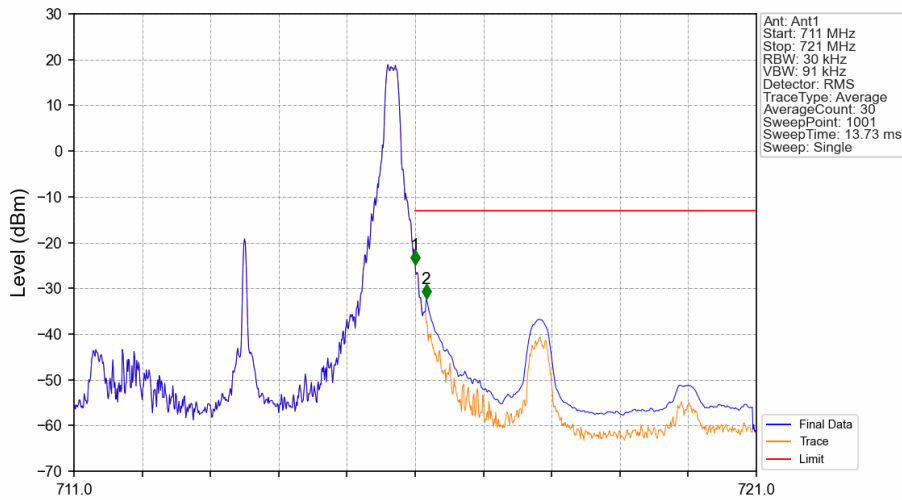
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.84	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.33	-13	Pass



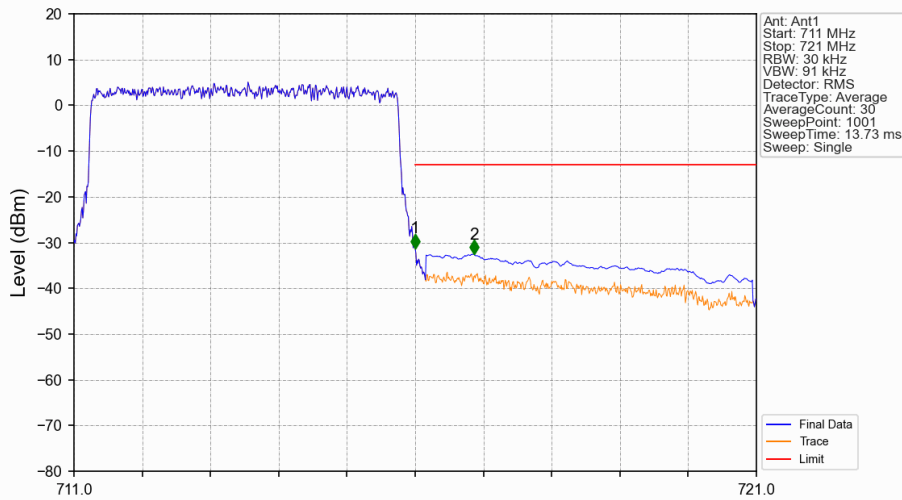
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.000	-31.26	-13	Pass
716.1	721	0.1	CHP	2	716.860	-32.51	-13	Pass



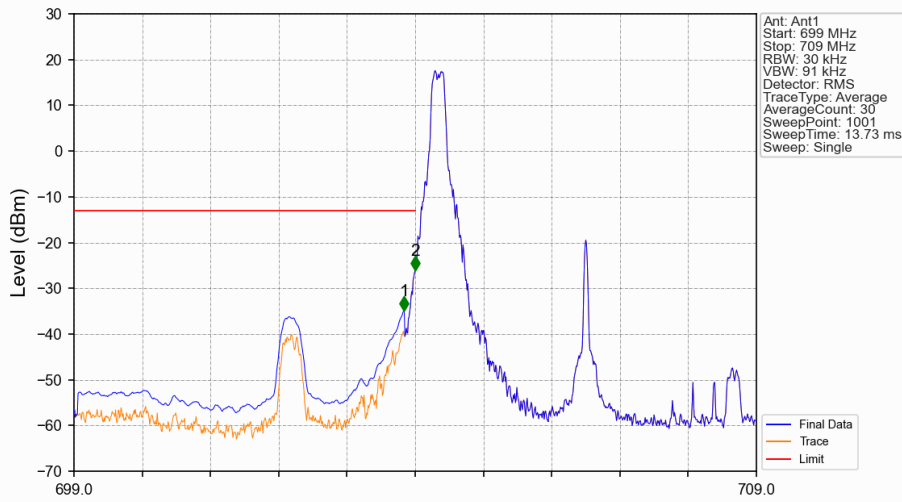
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-34.97	-13	Pass
703.9	704	0.03	/	2	704.000	-26.06	-13	Pass
704	709	0.03	/	/	/	/	/	/



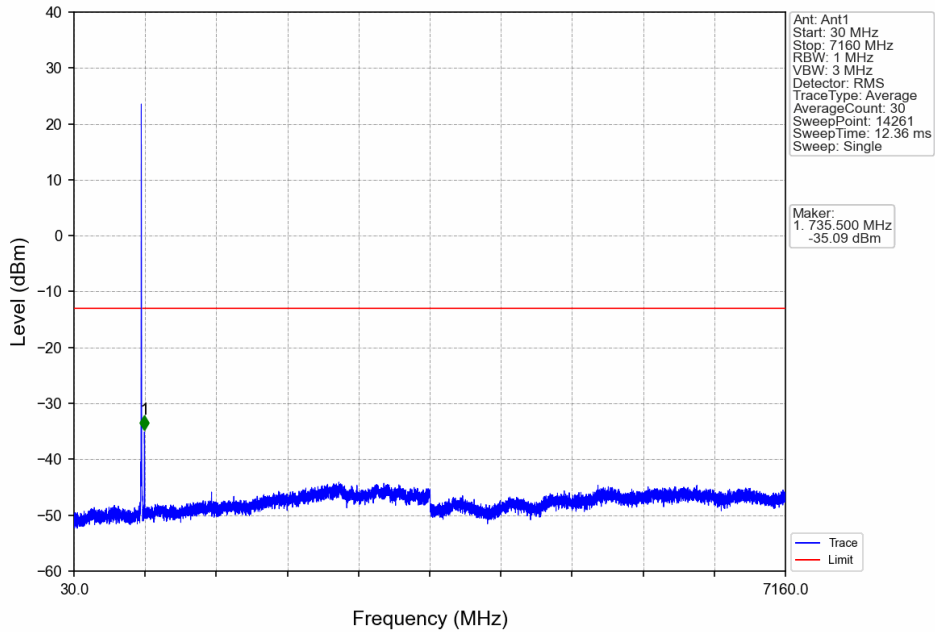
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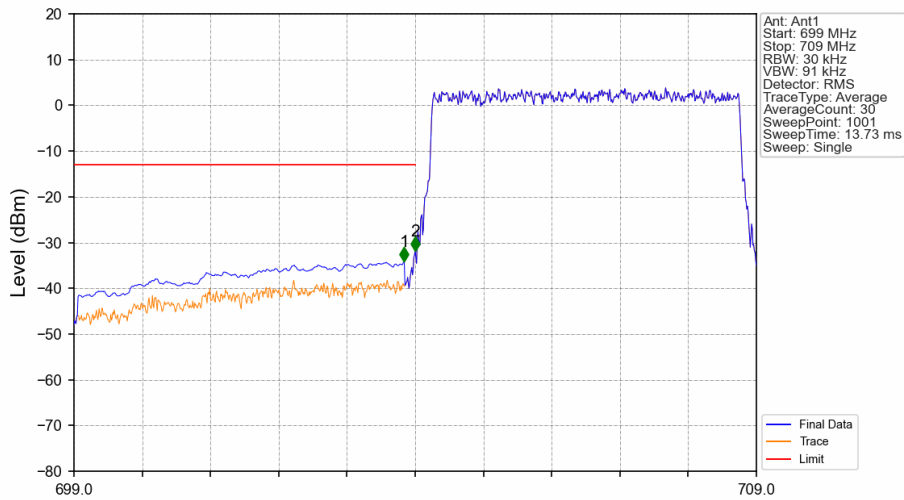


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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-34.14	-13	Pass
703.9	704	0.03	/	2	704.000	-31.82	-13	Pass
704	709	0.03	/	/	/	/	/	/



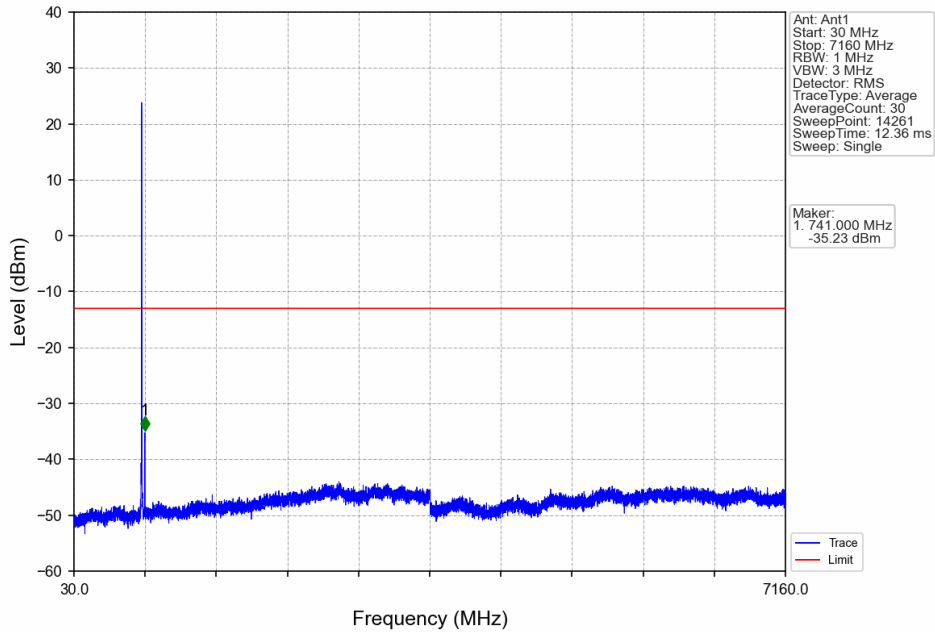
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Band17_5MHz_64QAM_MCH_710MHz_RB_1_0_NTNV



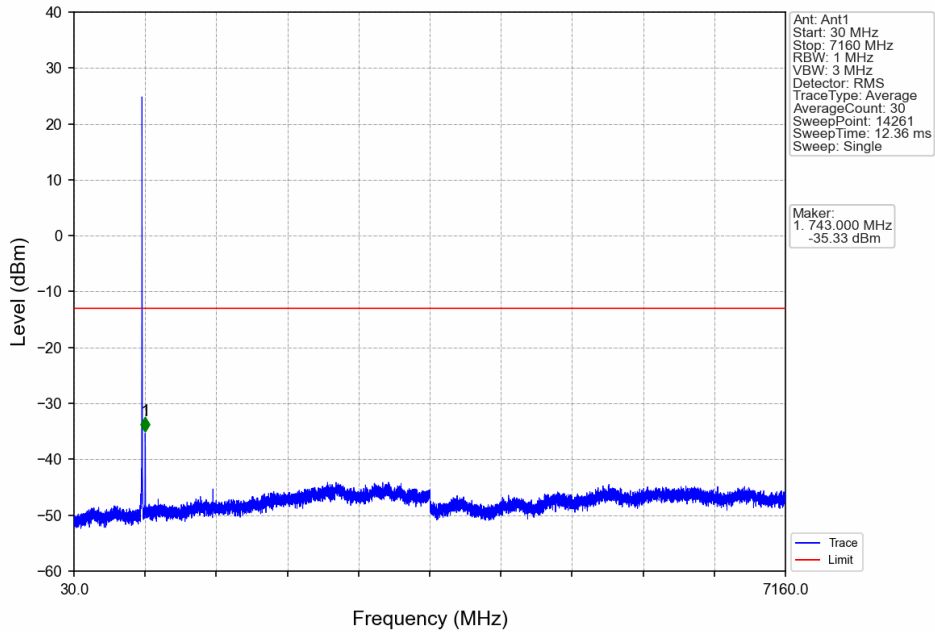
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Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_0_NTNV

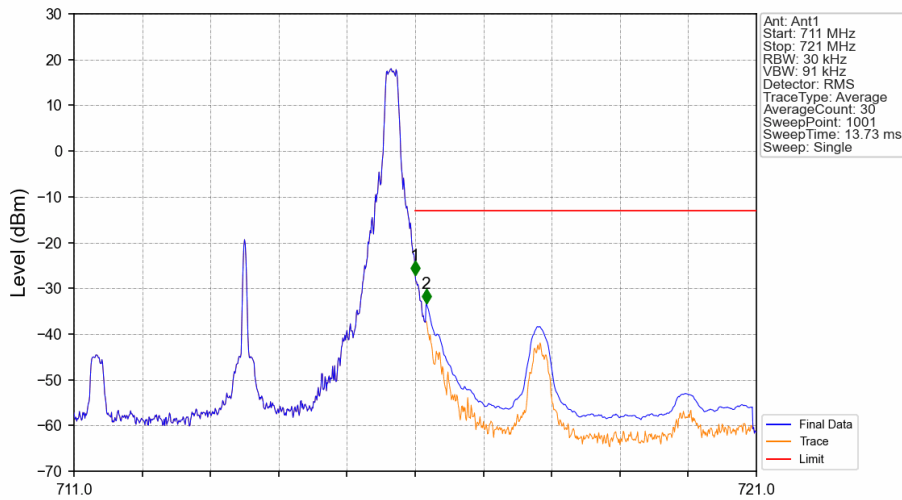


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Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.000	-27.11	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.26	-13	Pass

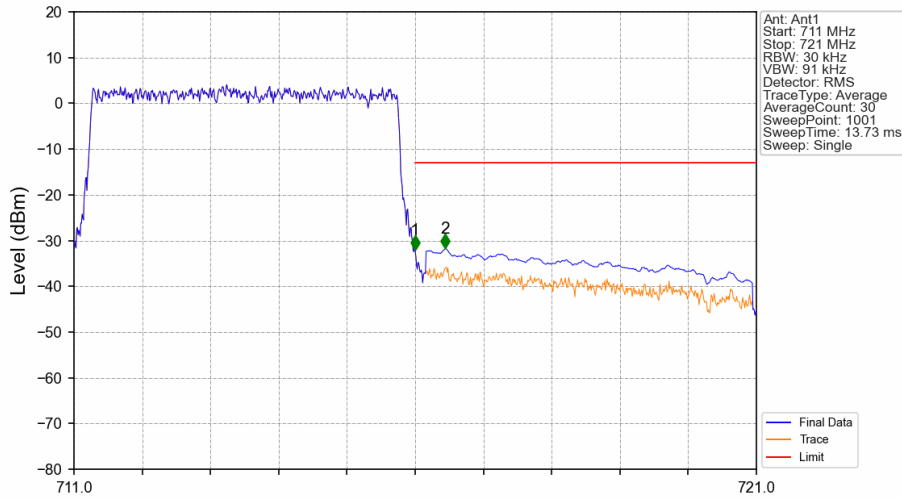


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Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.000	-32.08	-13	Pass
716.1	721	0.1	CHP	2	716.440	-31.74	-13	Pass



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4.2 B17_10MHz

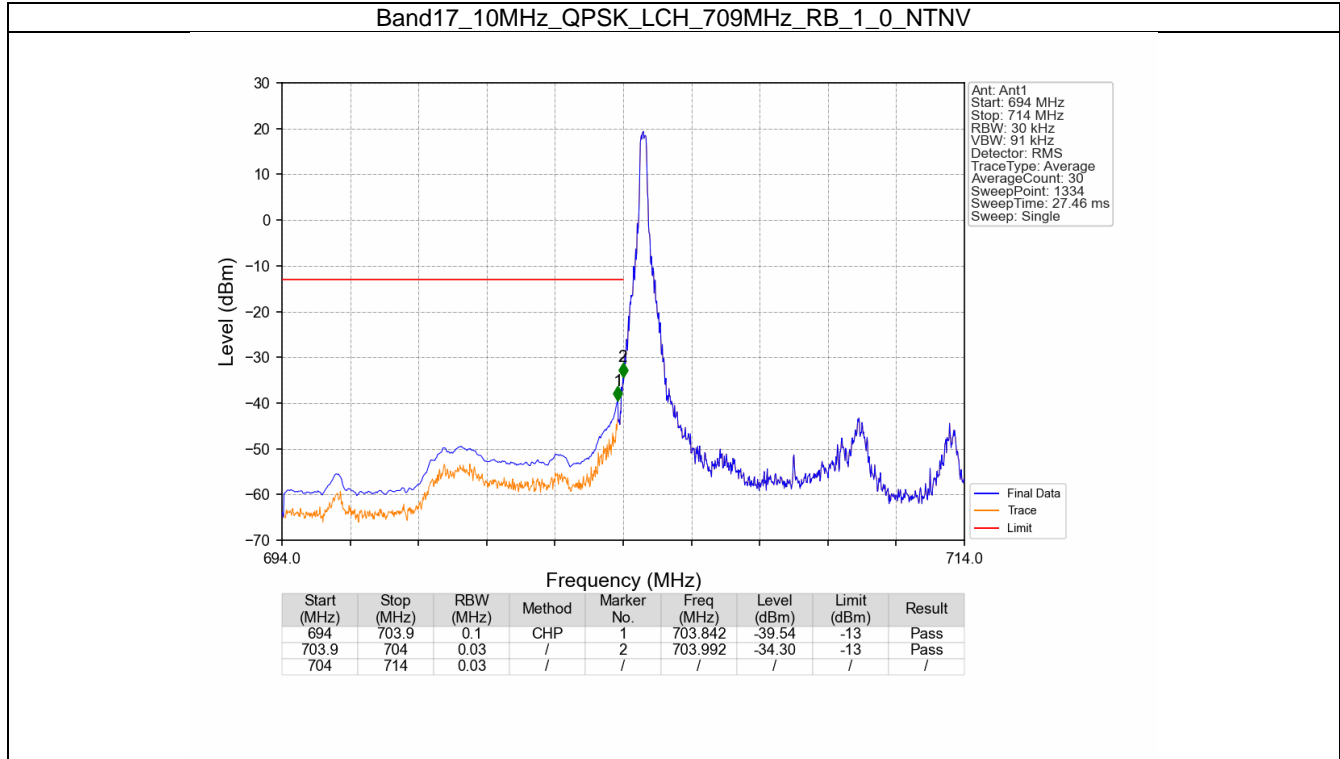
4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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4.2.2 Test Graph



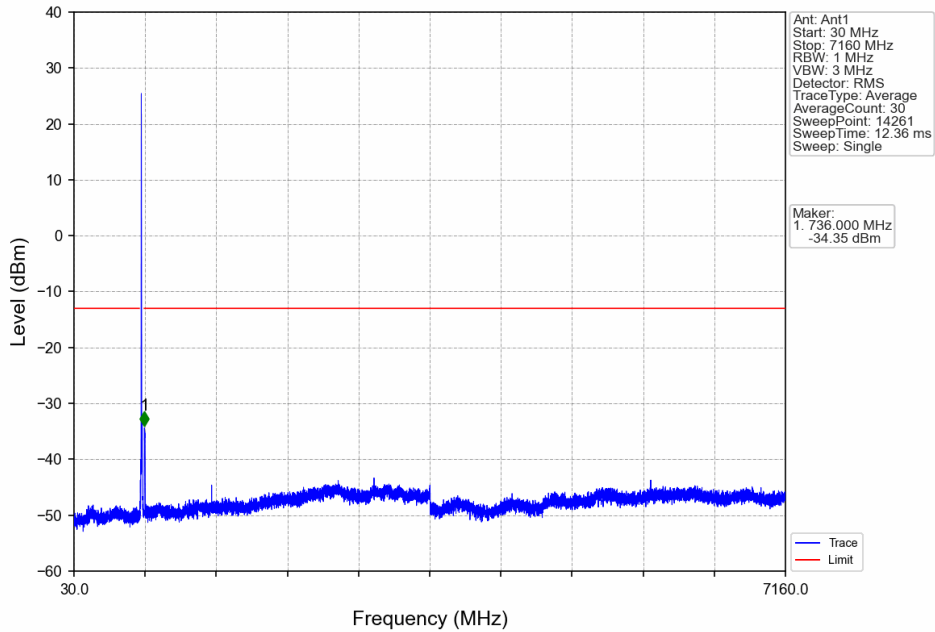
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Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

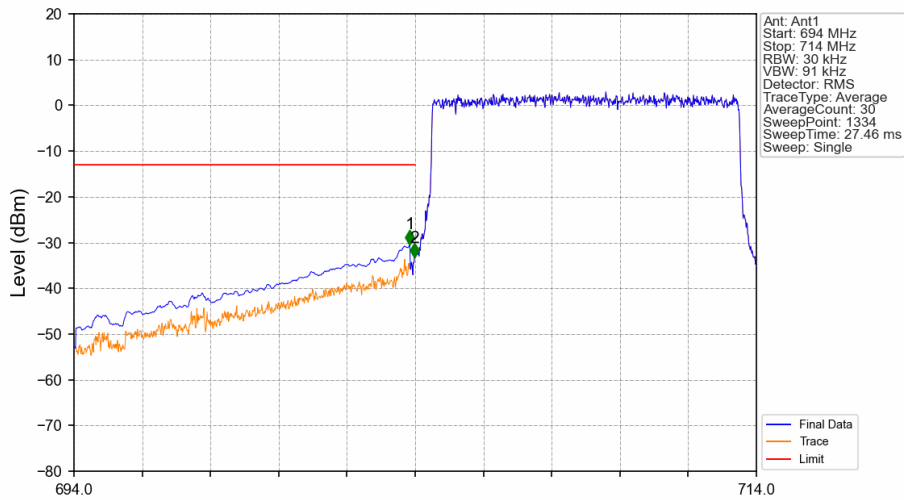


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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



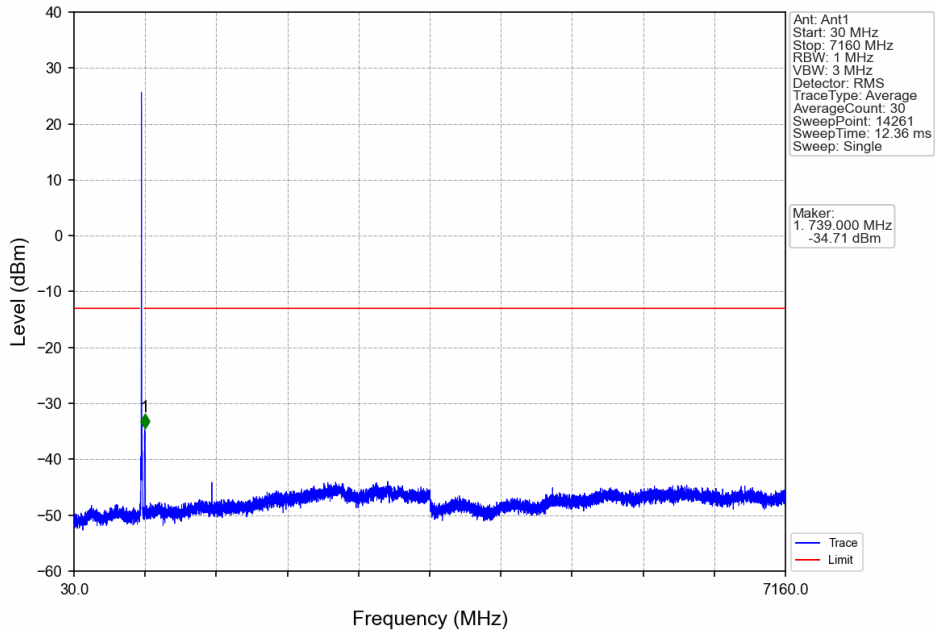
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-30.38	-13	Pass
703.9	704	0.03	/	2	703.977	-33.23	-13	Pass
704	714	0.03	/	/	/	/	/	/



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Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



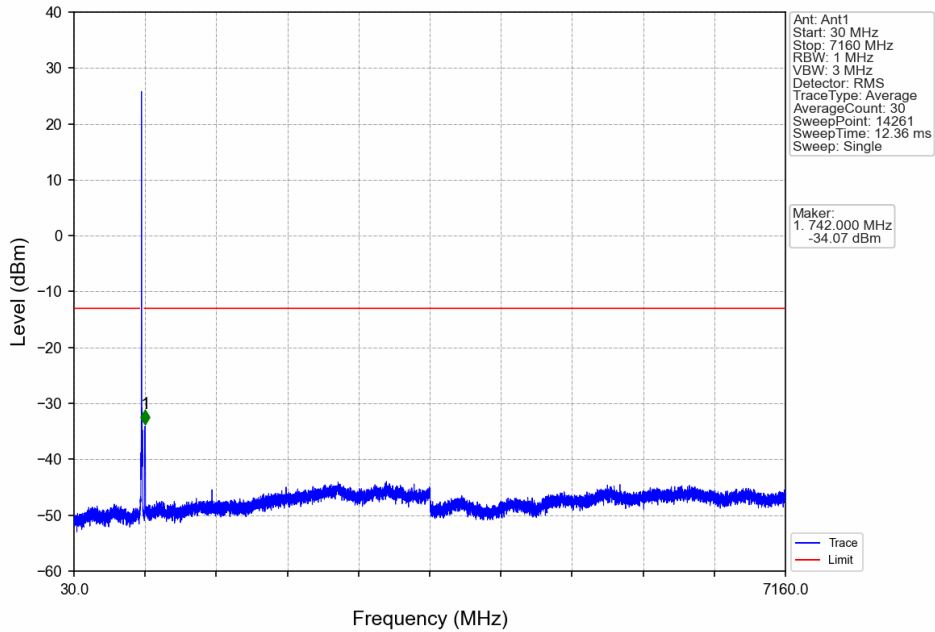
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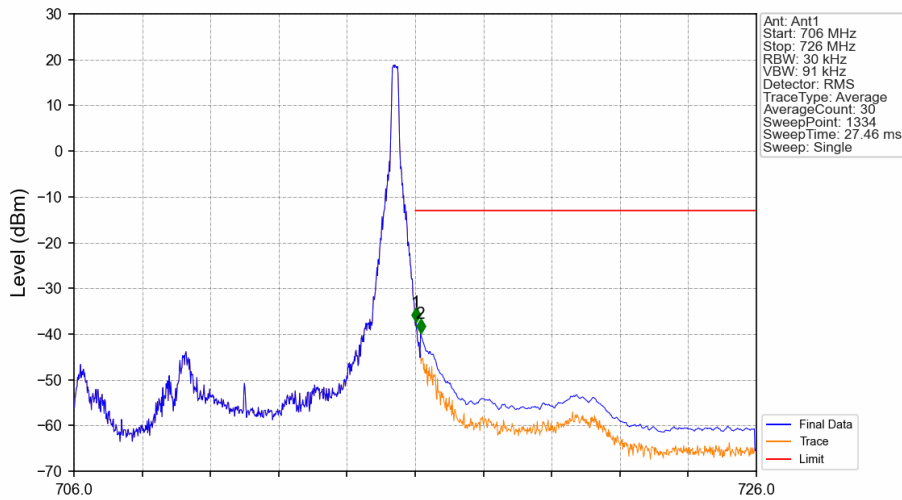


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Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



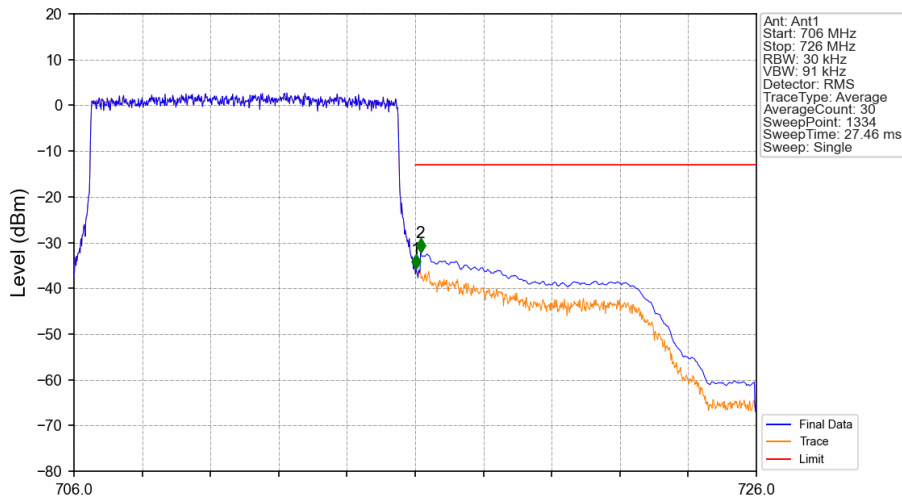
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.023	-37.43	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.81	-13	Pass



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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.023	-35.76	-13	Pass
716.1	726	0.1	CHP	2	716.158	-32.24	-13	Pass

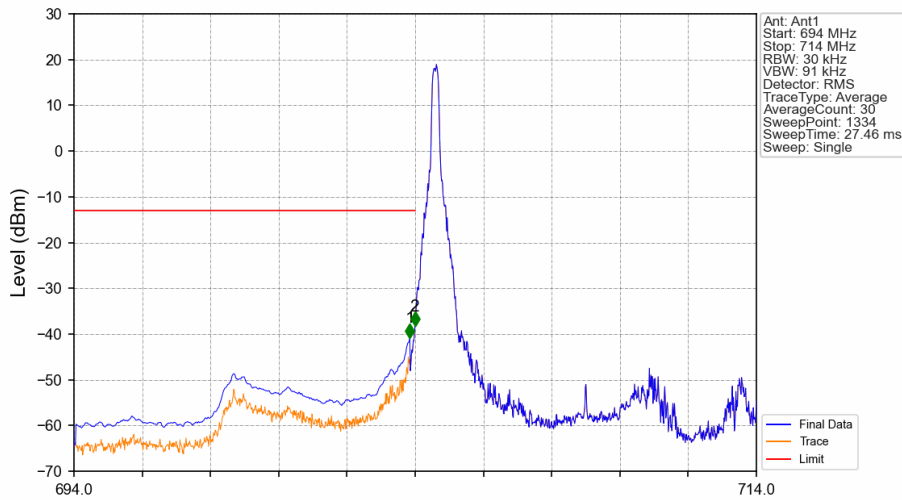


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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-40.81	-13	Pass
703.9	704	0.03	/	2	703.992	-38.20	-13	Pass
704	714	0.03	/	/	/	/	/	/



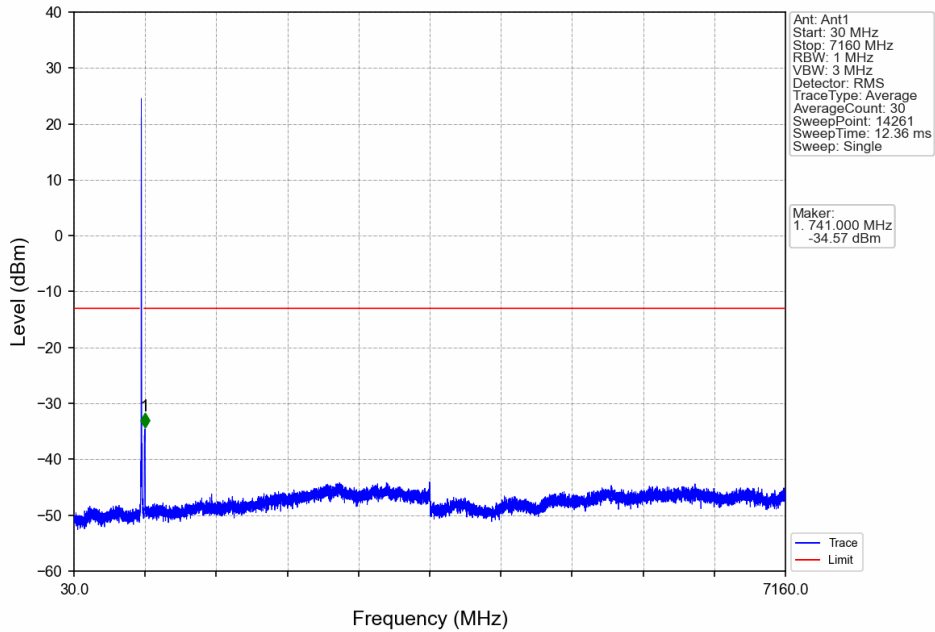
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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



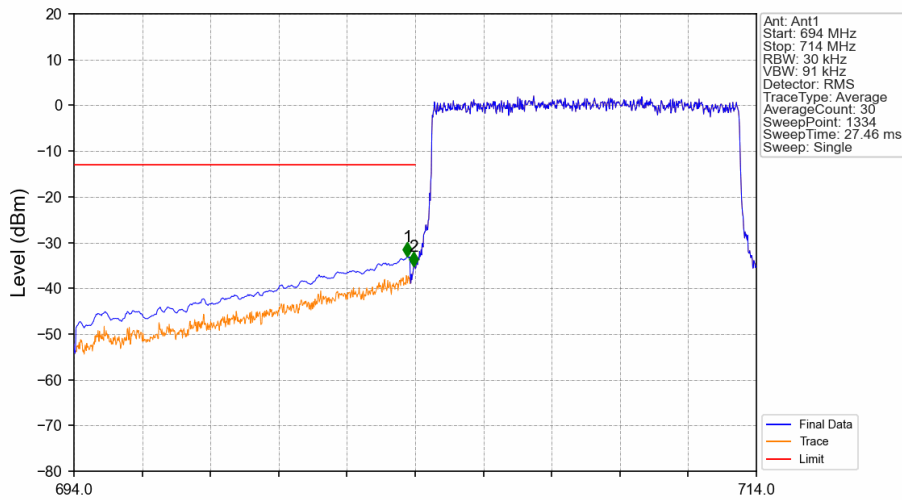
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.767	-33.11	-13	Pass
703.9	704	0.03	/	2	703.962	-35.16	-13	Pass
704	714	0.03	/	/	/	/	/	/



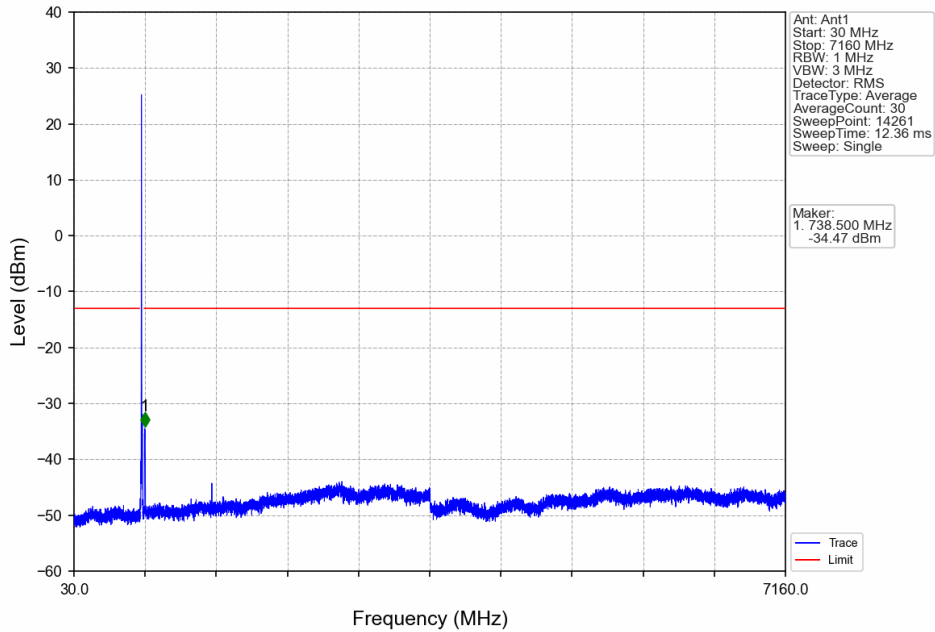
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Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

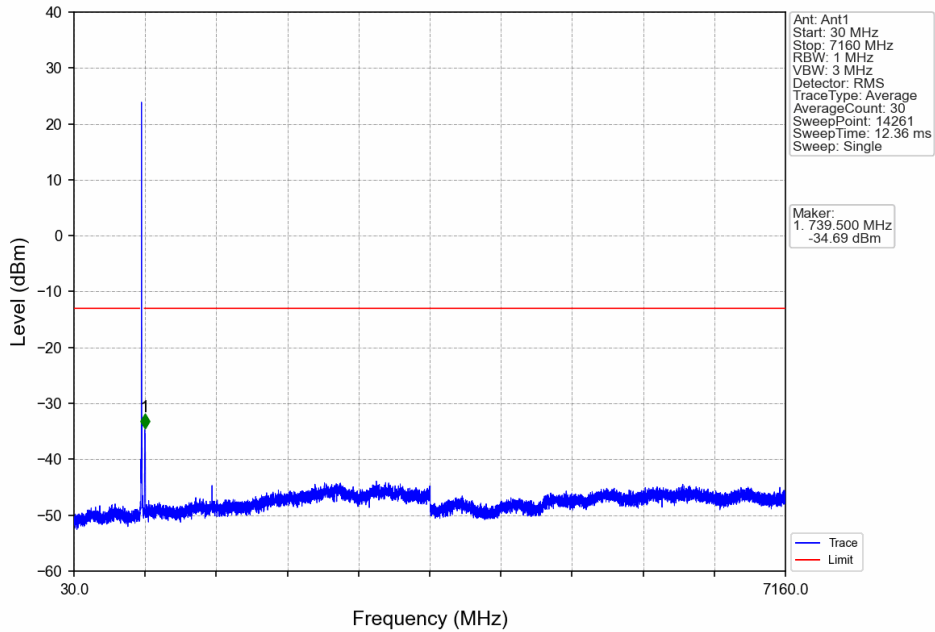


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Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

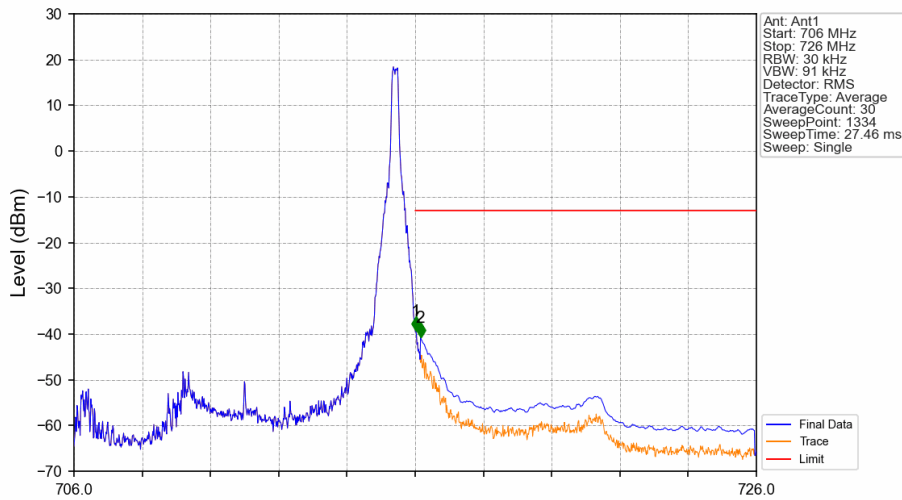


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Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-39.38	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.77	-13	Pass

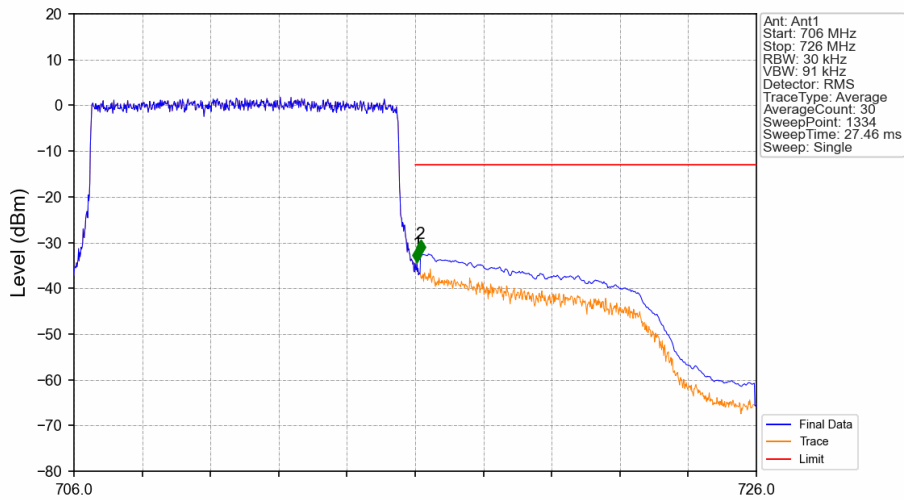


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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.053	-34.33	-13	Pass
716.1	726	0.1	CHP	2	716.158	-32.48	-13	Pass

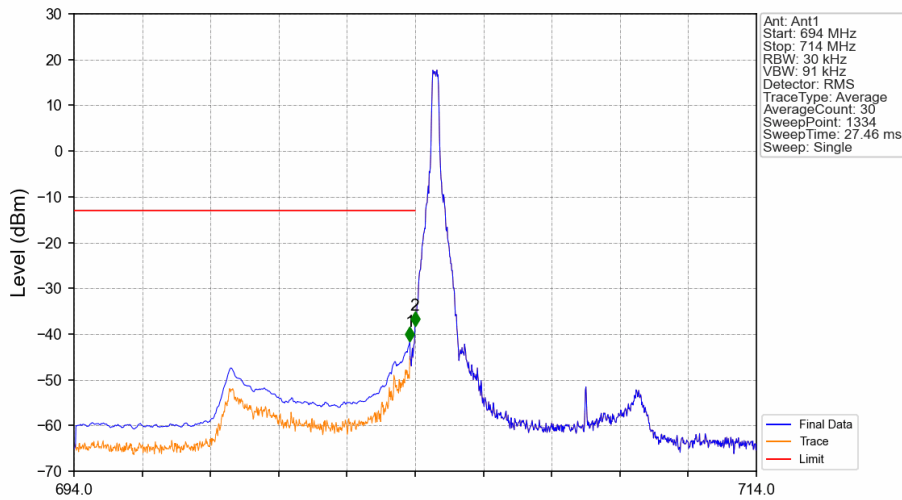


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Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-41.68	-13	Pass
703.9	704	0.03	/	2	703.992	-38.17	-13	Pass
704	714	0.03	/	/	/	/	/	/

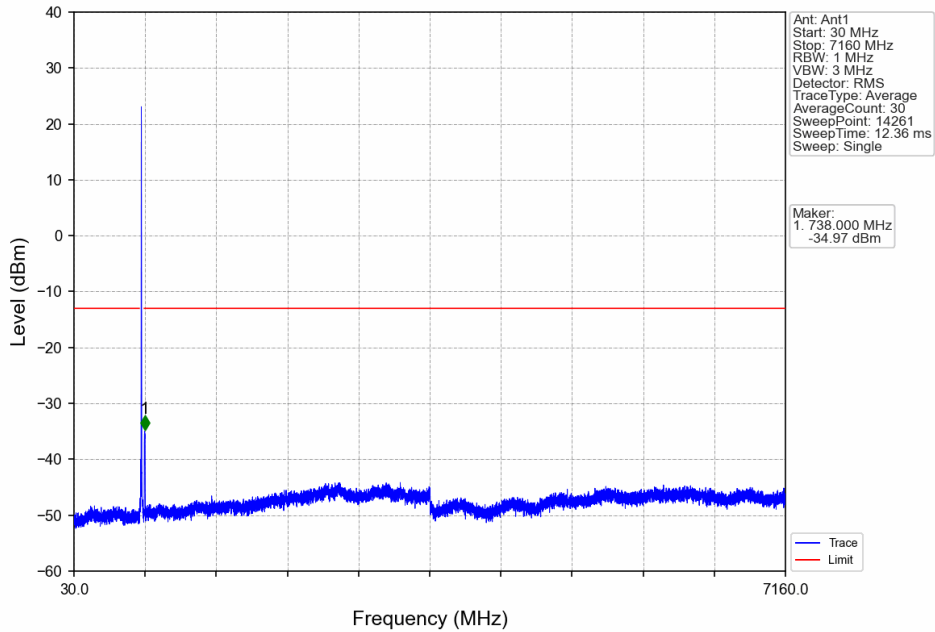


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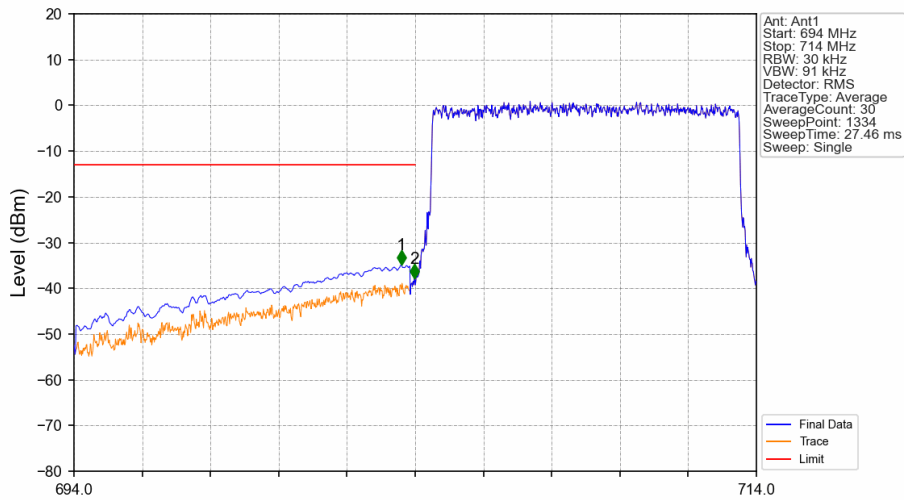


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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.587	-34.92	-13	Pass
703.9	704	0.03	/	2	703.977	-37.82	-13	Pass
704	714	0.03	/	/	/	/	/	/



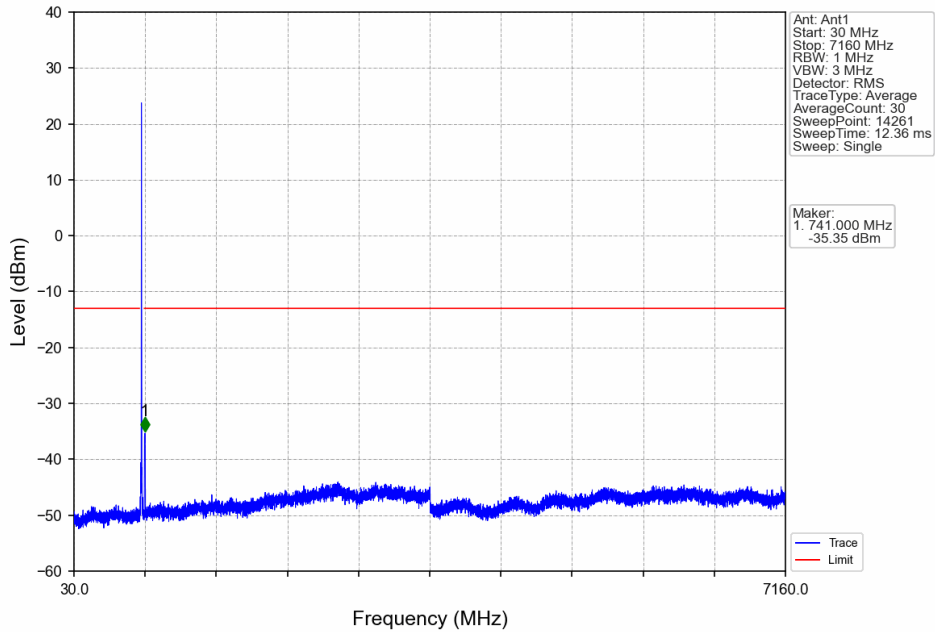
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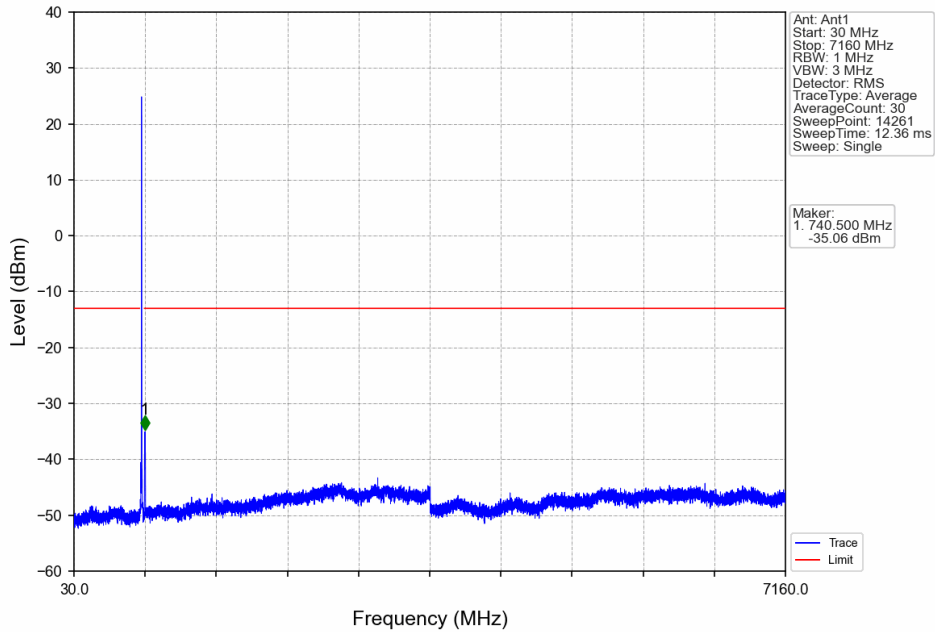
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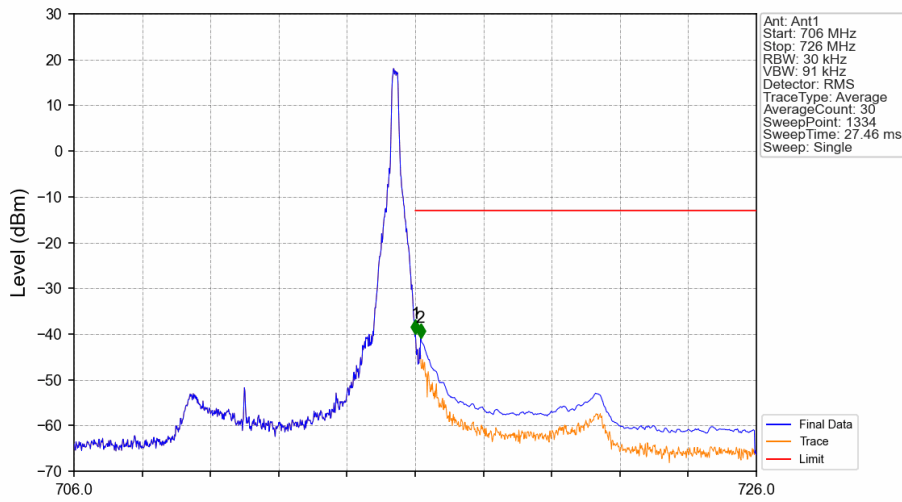
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Band17_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.96	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.83	-13	Pass

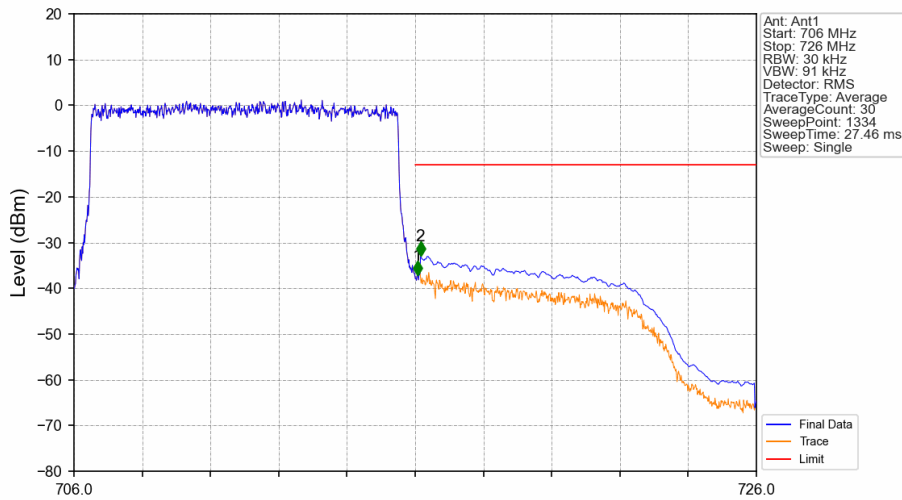


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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.068	-37.16	-13	Pass
716.1	726	0.1	CHP	2	716.158	-32.99	-13	Pass



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5. Effective (Isotropic) Radiated Power Output Data

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.46	20.99	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.55	21.08	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.55	21.08	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.63	20.16	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.54	21.07	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.72	21.25	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.65	21.18	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.61	20.14	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.62	21.15	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.64	21.17	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.52	21.05	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.56	20.09	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.75	20.28	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.84	20.37	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.93	20.46	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.68	19.21	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.87	20.4	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.02	20.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.90	20.43	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.65	19.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.78	20.31	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.00	20.53	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.97	20.5	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.65	19.18	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.79	19.32	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#12	21.81	19.34	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.84	19.37	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.74	18.27	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.83	19.36	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.84	19.37	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.77	19.3	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.67	18.2	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.82	19.35	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.81	19.34	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.86	19.39	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.64	18.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.58	21.11	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.60	21.13	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.53	21.06	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	20.21	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.72	21.25	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.58	21.11	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.62	21.15	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.69	20.22	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.68	21.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.70	21.23	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.57	21.1	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.70	20.23	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.90	20.43	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.89	20.42	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.90	20.43	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.61	19.14	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.88	20.41	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.96	20.49	34.77	PASS



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Band17	10MHz	16QAM	23790	1RB#49	23.13	20.66	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.65	19.18	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.10	20.63	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.95	20.48	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.89	20.42	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.76	19.29	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.78	19.31	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.92	19.45	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.90	19.43	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.69	18.22	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.89	19.42	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.86	19.39	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.92	19.45	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.71	18.24	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.02	19.55	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.82	19.35	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.87	19.4	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.74	18.27	34.77	PASS



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6. Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1
 Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.40	-48.03	25.10	-73.79	-13.00	60.79	Horizontal
2	2113.7700	42.41	-47.71	26.22	-74.34	-13.00	61.34	Horizontal
3	2818.3600	42.10	-46.85	27.94	-72.08	-13.00	59.08	Horizontal
4	3522.9500	41.91	-46.49	28.62	-71.22	-13.00	58.22	Horizontal
5	4227.5400	41.04	-45.91	29.65	-70.48	-13.00	57.48	Horizontal
6	4932.1300	41.51	-45.65	31.25	-68.15	-13.00	55.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	43.49	-48.03	25.10	-74.70	-13.00	61.70	Vertical
2	2113.7700	42.73	-47.71	26.22	-74.02	-13.00	61.02	Vertical
3	2818.3600	42.79	-46.85	27.94	-71.39	-13.00	58.39	Vertical
4	3522.9500	41.84	-46.49	28.62	-71.29	-13.00	58.29	Vertical
5	4227.5400	40.21	-45.91	29.65	-71.31	-13.00	58.31	Vertical
6	4932.1300	40.99	-45.65	31.25	-68.67	-13.00	55.67	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.84	-48.04	25.11	-74.35	-13.00	61.35	Horizontal
2	2116.7700	43.10	-47.70	26.23	-73.64	-13.00	60.64	Horizontal
3	2822.3600	42.59	-46.84	27.95	-71.56	-13.00	58.56	Horizontal
4	3527.9500	41.65	-46.48	28.63	-71.47	-13.00	58.47	Horizontal
5	4233.5400	40.65	-45.90	29.66	-70.85	-13.00	57.85	Horizontal
6	4939.1300	41.24	-45.67	31.27	-68.42	-13.00	55.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.61	-48.04	25.11	-74.58	-13.00	61.58	Vertical
2	2116.7700	43.93	-47.70	26.23	-72.81	-13.00	59.81	Vertical
3	2822.3600	42.03	-46.84	27.95	-72.12	-13.00	59.12	Vertical
4	3527.9500	42.63	-46.48	28.63	-70.49	-13.00	57.49	Vertical
5	4233.5400	40.59	-45.90	29.66	-70.91	-13.00	57.91	Vertical
6	4939.1300	41.13	-45.67	31.27	-68.53	-13.00	55.53	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = High

Table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data for horizontal polarization.

Table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data for vertical polarization.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level

---End of Attachment---



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