

Appendix B.9

LTE Band 7



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1. Frequency Stability

1.1 B7_5MHz

1.1.1 Test Result

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2502.5	25	0	20	3.8	-2.227	-0.0009	-2.5 to 2.5	Pass
					4.0	1.941	0.0008	-2.5 to 2.5	Pass
					4.2	1.295	0.0005	-2.5 to 2.5	Pass
				-30	4.0	-0.016	0.0000	-2.5 to 2.5	Pass
				-20	4.0	1.107	0.0004	-2.5 to 2.5	Pass
				-10	4.0	1.661	0.0007	-2.5 to 2.5	Pass
				0	4.0	0.744	0.0003	-2.5 to 2.5	Pass
				10	4.0	3.535	0.0014	-2.5 to 2.5	Pass
				30	4.0	-7.464	-0.0030	-2.5 to 2.5	Pass
				40	4.0	7.782	0.0031	-2.5 to 2.5	Pass
	50	4.0	-3.560	-0.0014	-2.5 to 2.5	Pass			
	2535	25	0	20	3.8	-6.410	-0.0025	-2.5 to 2.5	Pass
					4.0	9.140	0.0036	-2.5 to 2.5	Pass
					4.2	7.731	0.0030	-2.5 to 2.5	Pass
				-30	4.0	7.351	0.0029	-2.5 to 2.5	Pass
				-20	4.0	-6.973	-0.0028	-2.5 to 2.5	Pass
				-10	4.0	-5.172	-0.0020	-2.5 to 2.5	Pass
				0	4.0	3.421	0.0013	-2.5 to 2.5	Pass
				10	4.0	0.662	0.0003	-2.5 to 2.5	Pass
				30	4.0	3.385	0.0013	-2.5 to 2.5	Pass
				40	4.0	-3.434	-0.0014	-2.5 to 2.5	Pass
	50	4.0	-10.254	-0.0040	-2.5 to 2.5	Pass			
	2567.5	25	0	20	3.8	-14.122	-0.0055	-2.5 to 2.5	Pass
					4.0	-13.402	-0.0052	-2.5 to 2.5	Pass
					4.2	-8.205	-0.0032	-2.5 to 2.5	Pass
				-30	4.0	-6.862	-0.0027	-2.5 to 2.5	Pass
				-20	4.0	-10.705	-0.0042	-2.5 to 2.5	Pass
				-10	4.0	-4.977	-0.0019	-2.5 to 2.5	Pass
				0	4.0	-14.711	-0.0057	-2.5 to 2.5	Pass
				10	4.0	-16.260	-0.0063	-2.5 to 2.5	Pass
30				4.0	-13.716	-0.0053	-2.5 to 2.5	Pass	
40				4.0	-15.607	-0.0061	-2.5 to 2.5	Pass	
50	4.0	-20.230	-0.0079	-2.5 to 2.5	Pass				
16QAM	2502.5	25	0	20	3.8	1.711	0.0007	-2.5 to 2.5	Pass
					4.0	4.287	0.0017	-2.5 to 2.5	Pass
					4.2	-1.789	-0.0007	-2.5 to 2.5	Pass
				-30	4.0	5.273	0.0021	-2.5 to 2.5	Pass
				-20	4.0	-6.417	-0.0026	-2.5 to 2.5	Pass
				-10	4.0	5.974	0.0024	-2.5 to 2.5	Pass
0	4.0	-6.314	-0.0025	-2.5 to 2.5	Pass				



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64QAM	2535	25	0	10	4.0	1.547	0.0006	-2.5 to 2.5	Pass
				30	4.0	-3.196	-0.0013	-2.5 to 2.5	Pass
				40	4.0	-6.074	-0.0024	-2.5 to 2.5	Pass
				50	4.0	1.202	0.0005	-2.5 to 2.5	Pass
				20	3.8	-0.293	-0.0001	-2.5 to 2.5	Pass
					4.0	-8.747	-0.0035	-2.5 to 2.5	Pass
					4.2	-0.888	-0.0004	-2.5 to 2.5	Pass
				-30	4.0	1.779	0.0007	-2.5 to 2.5	Pass
				-20	4.0	6.630	0.0026	-2.5 to 2.5	Pass
				-10	4.0	-7.110	-0.0028	-2.5 to 2.5	Pass
				0	4.0	3.548	0.0014	-2.5 to 2.5	Pass
				10	4.0	4.498	0.0018	-2.5 to 2.5	Pass
				30	4.0	4.364	0.0017	-2.5 to 2.5	Pass
				40	4.0	2.537	0.0010	-2.5 to 2.5	Pass
	50	4.0	4.594	0.0018	-2.5 to 2.5	Pass			
	4.0	-4.182	-0.0016	-2.5 to 2.5	Pass				
	4.2	-3.088	-0.0012	-2.5 to 2.5	Pass				
	-30	4.0	-11.786	-0.0046	-2.5 to 2.5	Pass			
	-20	4.0	-11.041	-0.0043	-2.5 to 2.5	Pass			
	-10	4.0	-15.563	-0.0061	-2.5 to 2.5	Pass			
	0	4.0	-2.694	-0.0010	-2.5 to 2.5	Pass			
	10	4.0	-4.731	-0.0018	-2.5 to 2.5	Pass			
	30	4.0	-9.299	-0.0036	-2.5 to 2.5	Pass			
	40	4.0	-2.902	-0.0011	-2.5 to 2.5	Pass			
	50	4.0	-6.411	-0.0025	-2.5 to 2.5	Pass			
	4.0	-1.983	-0.0008	-2.5 to 2.5	Pass				
	4.2	1.350	0.0005	-2.5 to 2.5	Pass				
	-30	4.0	5.984	0.0024	-2.5 to 2.5	Pass			
	-20	4.0	4.722	0.0019	-2.5 to 2.5	Pass			
	-10	4.0	3.521	0.0014	-2.5 to 2.5	Pass			
	0	4.0	6.877	0.0027	-2.5 to 2.5	Pass			
	10	4.0	2.274	0.0009	-2.5 to 2.5	Pass			
	30	4.0	2.564	0.0010	-2.5 to 2.5	Pass			
	40	4.0	-2.986	-0.0012	-2.5 to 2.5	Pass			
	50	4.0	5.395	0.0022	-2.5 to 2.5	Pass			
4.0	4.605	0.0018	-2.5 to 2.5	Pass					
4.2	8.302	0.0033	-2.5 to 2.5	Pass					
-30	4.0	-3.202	-0.0013	-2.5 to 2.5	Pass				
-20	4.0	4.841	0.0019	-2.5 to 2.5	Pass				
-10	4.0	1.873	0.0007	-2.5 to 2.5	Pass				
0	4.0	1.835	0.0007	-2.5 to 2.5	Pass				
10	4.0	-2.700	-0.0011	-2.5 to 2.5	Pass				
30	4.0	-8.142	-0.0032	-2.5 to 2.5	Pass				
40	4.0	-3.758	-0.0015	-2.5 to 2.5	Pass				
50	4.0	2.874	0.0011	-2.5 to 2.5	Pass				
4.0	-10.225	-0.0040	-2.5 to 2.5	Pass					



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				4.2	-2.946	-0.0011	-2.5 to 2.5	Pass	
				-30	4.0	-16.405	-0.0064	-2.5 to 2.5	Pass
				-20	4.0	-16.937	-0.0066	-2.5 to 2.5	Pass
				-10	4.0	-8.429	-0.0033	-2.5 to 2.5	Pass
				0	4.0	-14.449	-0.0056	-2.5 to 2.5	Pass
				10	4.0	-11.397	-0.0044	-2.5 to 2.5	Pass
				30	4.0	-9.599	-0.0037	-2.5 to 2.5	Pass
				40	4.0	-13.201	-0.0051	-2.5 to 2.5	Pass
				50	4.0	-13.385	-0.0052	-2.5 to 2.5	Pass



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1.2 B7_10MHz

1.2.1 Test Result

Band: 7 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2505	50	0	20	3.8	4.256	0.0017	-2.5 to 2.5	Pass	
					4.0	1.932	0.0008	-2.5 to 2.5	Pass	
					4.2	0.562	0.0002	-2.5 to 2.5	Pass	
				-30	4.0	-7.543	-0.0030	-2.5 to 2.5	Pass	
					-20	4.0	-6.884	-0.0027	-2.5 to 2.5	Pass
						-10	4.0	2.538	0.0010	-2.5 to 2.5
				0	4.0	4.386	0.0018	-2.5 to 2.5	Pass	
					10	4.0	6.205	0.0025	-2.5 to 2.5	Pass
				30	4.0	1.381	0.0006	-2.5 to 2.5	Pass	
	40	4.0	-0.688	-0.0003	-2.5 to 2.5	Pass				
	50	4.0	4.156	0.0017	-2.5 to 2.5	Pass				
	2535	50	0	20	3.8	-5.303	-0.0021	-2.5 to 2.5	Pass	
					4.0	-4.827	-0.0019	-2.5 to 2.5	Pass	
					4.2	-0.436	-0.0002	-2.5 to 2.5	Pass	
				-30	4.0	-9.309	-0.0037	-2.5 to 2.5	Pass	
					-20	4.0	2.461	0.0010	-2.5 to 2.5	Pass
						-10	4.0	-2.720	-0.0011	-2.5 to 2.5
				0	4.0	-0.959	-0.0004	-2.5 to 2.5	Pass	
					10	4.0	-8.274	-0.0033	-2.5 to 2.5	Pass
				30	4.0	-4.552	-0.0018	-2.5 to 2.5	Pass	
	40	4.0	-0.957	-0.0004	-2.5 to 2.5	Pass				
	50	4.0	-7.880	-0.0031	-2.5 to 2.5	Pass				
	2565	50	0	20	3.8	2.879	0.0011	-2.5 to 2.5	Pass	
					4.0	7.416	0.0029	-2.5 to 2.5	Pass	
					4.2	4.505	0.0018	-2.5 to 2.5	Pass	
				-30	4.0	-4.015	-0.0016	-2.5 to 2.5	Pass	
					-20	4.0	-7.011	-0.0027	-2.5 to 2.5	Pass
-10						4.0	2.707	0.0011	-2.5 to 2.5	Pass
0				4.0	1.786	0.0007	-2.5 to 2.5	Pass		
				10	4.0	-1.856	-0.0007	-2.5 to 2.5	Pass	
30				4.0	9.759	0.0038	-2.5 to 2.5	Pass		
40	4.0	-5.229	-0.0020	-2.5 to 2.5	Pass					
50	4.0	3.102	0.0012	-2.5 to 2.5	Pass					
16QAM	2505	50	0	20	3.8	-0.796	-0.0003	-2.5 to 2.5	Pass	
					4.0	4.899	0.0020	-2.5 to 2.5	Pass	
					4.2	3.963	0.0016	-2.5 to 2.5	Pass	
				-30	4.0	-3.100	-0.0012	-2.5 to 2.5	Pass	
					-20	4.0	-6.664	-0.0027	-2.5 to 2.5	Pass
						-10	4.0	-0.655	-0.0003	-2.5 to 2.5
				0	4.0	3.240	0.0013	-2.5 to 2.5	Pass	
					10	4.0	7.428	0.0030	-2.5 to 2.5	Pass
				30	4.0	-3.357	-0.0013	-2.5 to 2.5	Pass	



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64QAM	2535	50	0	40	4.0	-4.196	-0.0017	-2.5 to 2.5	Pass			
				50	4.0	2.694	0.0011	-2.5 to 2.5	Pass			
				20	3.8	-0.161	-0.0001	-2.5 to 2.5	Pass			
					4.0	-8.022	-0.0032	-2.5 to 2.5	Pass			
					4.2	-9.523	-0.0038	-2.5 to 2.5	Pass			
				-30	4.0	-6.908	-0.0027	-2.5 to 2.5	Pass			
				-20	4.0	-6.338	-0.0025	-2.5 to 2.5	Pass			
				-10	4.0	-7.790	-0.0031	-2.5 to 2.5	Pass			
				0	4.0	-1.712	-0.0007	-2.5 to 2.5	Pass			
				10	4.0	1.411	0.0006	-2.5 to 2.5	Pass			
				30	4.0	-10.016	-0.0040	-2.5 to 2.5	Pass			
				40	4.0	-4.770	-0.0019	-2.5 to 2.5	Pass			
				50	4.0	-5.389	-0.0021	-2.5 to 2.5	Pass			
				2565	50	0	20	3.8	2.804	0.0011	-2.5 to 2.5	Pass
	4.0	1.923	0.0007					-2.5 to 2.5	Pass			
	4.2	8.630	0.0034					-2.5 to 2.5	Pass			
	-30	4.0	-5.024				-0.0020	-2.5 to 2.5	Pass			
	-20	4.0	7.843				0.0031	-2.5 to 2.5	Pass			
	-10	4.0	-2.721				-0.0011	-2.5 to 2.5	Pass			
	0	4.0	-6.282				-0.0024	-2.5 to 2.5	Pass			
	10	4.0	-4.768				-0.0019	-2.5 to 2.5	Pass			
	30	4.0	2.398				0.0009	-2.5 to 2.5	Pass			
	40	4.0	-1.425				-0.0006	-2.5 to 2.5	Pass			
	50	4.0	-6.334				-0.0025	-2.5 to 2.5	Pass			
	2505	50	0				20	3.8	-3.849	-0.0015	-2.5 to 2.5	Pass
								4.0	-1.338	-0.0005	-2.5 to 2.5	Pass
								4.2	4.828	0.0019	-2.5 to 2.5	Pass
				-30	4.0	-3.837	-0.0015	-2.5 to 2.5	Pass			
-20				4.0	2.243	0.0009	-2.5 to 2.5	Pass				
-10				4.0	4.795	0.0019	-2.5 to 2.5	Pass				
0				4.0	2.097	0.0008	-2.5 to 2.5	Pass				
10				4.0	-4.525	-0.0018	-2.5 to 2.5	Pass				
30				4.0	0.350	0.0001	-2.5 to 2.5	Pass				
40				4.0	3.057	0.0012	-2.5 to 2.5	Pass				
50				4.0	-4.808	-0.0019	-2.5 to 2.5	Pass				
2535				50	0	20	3.8	-2.935	-0.0012	-2.5 to 2.5	Pass	
							4.0	-1.717	-0.0007	-2.5 to 2.5	Pass	
							4.2	-1.614	-0.0006	-2.5 to 2.5	Pass	
	-30	4.0	-8.487			-0.0033	-2.5 to 2.5	Pass				
	-20	4.0	-6.649			-0.0026	-2.5 to 2.5	Pass				
	-10	4.0	2.227			0.0009	-2.5 to 2.5	Pass				
	0	4.0	-7.662			-0.0030	-2.5 to 2.5	Pass				
	10	4.0	-5.310			-0.0021	-2.5 to 2.5	Pass				
	30	4.0	-4.004			-0.0016	-2.5 to 2.5	Pass				
	40	4.0	0.500			0.0002	-2.5 to 2.5	Pass				
	50	4.0	-0.170			-0.0001	-2.5 to 2.5	Pass				
	2565	50	0			20	3.8	-1.263	-0.0005	-2.5 to 2.5	Pass	
							4.0	7.137	0.0028	-2.5 to 2.5	Pass	
							4.2	-5.783	-0.0023	-2.5 to 2.5	Pass	
-30				4.0	-5.180	-0.0020	-2.5 to 2.5	Pass				



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				-20	4.0	1.126	0.0004	-2.5 to 2.5	Pass
				-10	4.0	-3.457	-0.0013	-2.5 to 2.5	Pass
				0	4.0	-7.982	-0.0031	-2.5 to 2.5	Pass
				10	4.0	-2.244	-0.0009	-2.5 to 2.5	Pass
				30	4.0	-3.972	-0.0015	-2.5 to 2.5	Pass
				40	4.0	-5.326	-0.0021	-2.5 to 2.5	Pass
				50	4.0	-3.392	-0.0013	-2.5 to 2.5	Pass



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1.3 B7_15MHz

1.3.1 Test Result

Band: 7 / Bandwidth: 15MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	2507.5	75	0	20	3.8	-1.804	-0.0007	-2.5 to 2.5	Pass			
					4.0	3.668	0.0015	-2.5 to 2.5	Pass			
					4.2	3.501	0.0014	-2.5 to 2.5	Pass			
				-30	4.0	-7.068	-0.0028	-2.5 to 2.5	Pass			
					-20	4.0	-5.595	-0.0022	-2.5 to 2.5	Pass		
						4.0	0.815	0.0003	-2.5 to 2.5	Pass		
				0	4.0	9.364	0.0037	-2.5 to 2.5	Pass			
					10	4.0	7.645	0.0030	-2.5 to 2.5	Pass		
				30	4.0	3.553	0.0014	-2.5 to 2.5	Pass			
					40	4.0	1.549	0.0006	-2.5 to 2.5	Pass		
				50	4.0	-3.007	-0.0012	-2.5 to 2.5	Pass			
				2535	75	0	20	3.8	-3.653	-0.0014	-2.5 to 2.5	Pass
								4.0	-0.895	-0.0004	-2.5 to 2.5	Pass
								4.2	0.171	0.0001	-2.5 to 2.5	Pass
							-30	4.0	2.615	0.0010	-2.5 to 2.5	Pass
	-20	4.0	1.528					0.0006	-2.5 to 2.5	Pass		
		4.0	-3.187					-0.0013	-2.5 to 2.5	Pass		
	0	4.0	5.301				0.0021	-2.5 to 2.5	Pass			
		10	4.0				-1.298	-0.0005	-2.5 to 2.5	Pass		
	30	4.0	8.950				0.0035	-2.5 to 2.5	Pass			
		40	4.0				-9.798	-0.0039	-2.5 to 2.5	Pass		
	50	4.0	-4.594				-0.0018	-2.5 to 2.5	Pass			
	2562.5	75	0				20	3.8	-2.049	-0.0008	-2.5 to 2.5	Pass
								4.0	-0.556	-0.0002	-2.5 to 2.5	Pass
								4.2	-2.834	-0.0011	-2.5 to 2.5	Pass
							-30	4.0	-0.991	-0.0004	-2.5 to 2.5	Pass
				-20	4.0	-5.017		-0.0020	-2.5 to 2.5	Pass		
					4.0	2.857		0.0011	-2.5 to 2.5	Pass		
				0	4.0	-8.941	-0.0035	-2.5 to 2.5	Pass			
					10	4.0	1.676	0.0007	-2.5 to 2.5	Pass		
30				4.0	4.515	0.0018	-2.5 to 2.5	Pass				
				40	4.0	0.309	0.0001	-2.5 to 2.5	Pass			
50				4.0	1.662	0.0006	-2.5 to 2.5	Pass				
16QAM				2507.5	75	0	20	3.8	3.767	0.0015	-2.5 to 2.5	Pass
								4.0	1.837	0.0007	-2.5 to 2.5	Pass
								4.2	0.642	0.0003	-2.5 to 2.5	Pass
							-30	4.0	-6.281	-0.0025	-2.5 to 2.5	Pass
	-20	4.0	3.554					0.0014	-2.5 to 2.5	Pass		
		4.0	1.332					0.0005	-2.5 to 2.5	Pass		
	0	4.0	-8.081				-0.0032	-2.5 to 2.5	Pass			
		10	4.0				8.733	0.0035	-2.5 to 2.5	Pass		
	30	4.0	3.009				0.0012	-2.5 to 2.5	Pass			



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				40	4.0	7.570	0.0030	-2.5 to 2.5	Pass
				50	4.0	0.779	0.0003	-2.5 to 2.5	Pass
2535	75	0	20	3.8	-8.556	-0.0034	-2.5 to 2.5	Pass	
				4.0	-6.739	-0.0027	-2.5 to 2.5	Pass	
				4.2	-2.278	-0.0009	-2.5 to 2.5	Pass	
			-30	4.0	-3.249	-0.0013	-2.5 to 2.5	Pass	
			-20	4.0	-5.600	-0.0022	-2.5 to 2.5	Pass	
			-10	4.0	-4.161	-0.0016	-2.5 to 2.5	Pass	
			0	4.0	-1.480	-0.0006	-2.5 to 2.5	Pass	
			10	4.0	-4.350	-0.0017	-2.5 to 2.5	Pass	
			30	4.0	1.209	0.0005	-2.5 to 2.5	Pass	
			40	4.0	-6.589	-0.0026	-2.5 to 2.5	Pass	
			50	4.0	-8.424	-0.0033	-2.5 to 2.5	Pass	
2562.5	75	0	20	3.8	-3.101	-0.0012	-2.5 to 2.5	Pass	
				4.0	-9.620	-0.0038	-2.5 to 2.5	Pass	
				4.2	-3.122	-0.0012	-2.5 to 2.5	Pass	
			-30	4.0	1.799	0.0007	-2.5 to 2.5	Pass	
			-20	4.0	-4.306	-0.0017	-2.5 to 2.5	Pass	
			-10	4.0	6.667	0.0026	-2.5 to 2.5	Pass	
			0	4.0	-1.234	-0.0005	-2.5 to 2.5	Pass	
			10	4.0	5.608	0.0022	-2.5 to 2.5	Pass	
			30	4.0	5.763	0.0022	-2.5 to 2.5	Pass	
			40	4.0	-7.412	-0.0029	-2.5 to 2.5	Pass	
			50	4.0	0.842	0.0003	-2.5 to 2.5	Pass	
64QAM	2507.5	75	0	20	3.8	-2.507	-0.0010	-2.5 to 2.5	Pass
					4.0	-0.427	-0.0002	-2.5 to 2.5	Pass
					4.2	-3.078	-0.0012	-2.5 to 2.5	Pass
				-30	4.0	3.657	0.0015	-2.5 to 2.5	Pass
				-20	4.0	4.066	0.0016	-2.5 to 2.5	Pass
				-10	4.0	-8.194	-0.0033	-2.5 to 2.5	Pass
				0	4.0	-5.354	-0.0021	-2.5 to 2.5	Pass
				10	4.0	3.275	0.0013	-2.5 to 2.5	Pass
				30	4.0	-5.665	-0.0023	-2.5 to 2.5	Pass
				40	4.0	6.400	0.0026	-2.5 to 2.5	Pass
				50	4.0	-3.898	-0.0016	-2.5 to 2.5	Pass
	2535	75	0	20	3.8	-7.353	-0.0029	-2.5 to 2.5	Pass
					4.0	-5.842	-0.0023	-2.5 to 2.5	Pass
					4.2	-5.245	-0.0021	-2.5 to 2.5	Pass
				-30	4.0	-10.077	-0.0040	-2.5 to 2.5	Pass
				-20	4.0	4.062	0.0016	-2.5 to 2.5	Pass
				-10	4.0	-8.478	-0.0033	-2.5 to 2.5	Pass
				0	4.0	3.142	0.0012	-2.5 to 2.5	Pass
				10	4.0	-5.503	-0.0022	-2.5 to 2.5	Pass
				30	4.0	-8.047	-0.0032	-2.5 to 2.5	Pass
				40	4.0	-5.445	-0.0021	-2.5 to 2.5	Pass
50	4.0	-7.251	-0.0029	-2.5 to 2.5	Pass				
2562.5	75	0	20	3.8	2.640	0.0010	-2.5 to 2.5	Pass	
				4.0	-0.838	-0.0003	-2.5 to 2.5	Pass	
				4.2	-0.553	-0.0002	-2.5 to 2.5	Pass	
			-30	4.0	-2.298	-0.0009	-2.5 to 2.5	Pass	



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				-20	4.0	6.169	0.0024	-2.5 to 2.5	Pass
				-10	4.0	7.083	0.0028	-2.5 to 2.5	Pass
				0	4.0	5.188	0.0020	-2.5 to 2.5	Pass
				10	4.0	-4.938	-0.0019	-2.5 to 2.5	Pass
				30	4.0	-4.281	-0.0017	-2.5 to 2.5	Pass
				40	4.0	4.828	0.0019	-2.5 to 2.5	Pass
				50	4.0	5.116	0.0020	-2.5 to 2.5	Pass



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1.4 B7_20MHz

1.4.1 Test Result

Band: 7 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2510	100	0	20	3.8	-4.717	-0.0019	-2.5 to 2.5	Pass	
					4.0	-15.748	-0.0063	-2.5 to 2.5	Pass	
					4.2	-11.071	-0.0044	-2.5 to 2.5	Pass	
				-30	4.0	-7.570	-0.0030	-2.5 to 2.5	Pass	
					-20	4.0	-7.582	-0.0030	-2.5 to 2.5	Pass
						4.0	-6.827	-0.0027	-2.5 to 2.5	Pass
				0	4.0	-6.563	-0.0026	-2.5 to 2.5	Pass	
					10	4.0	-11.033	-0.0044	-2.5 to 2.5	Pass
				30	4.0	-19.121	-0.0076	-2.5 to 2.5	Pass	
	40	4.0	-5.207	-0.0021	-2.5 to 2.5	Pass				
	50	4.0	-13.844	-0.0055	-2.5 to 2.5	Pass				
	2535	100	0	20	3.8	-8.161	-0.0032	-2.5 to 2.5	Pass	
					4.0	-7.232	-0.0029	-2.5 to 2.5	Pass	
					4.2	-7.068	-0.0028	-2.5 to 2.5	Pass	
				-30	4.0	6.023	0.0024	-2.5 to 2.5	Pass	
					-20	4.0	4.387	0.0017	-2.5 to 2.5	Pass
						4.0	-0.413	-0.0002	-2.5 to 2.5	Pass
				0	4.0	4.978	0.0020	-2.5 to 2.5	Pass	
					10	4.0	-8.125	-0.0032	-2.5 to 2.5	Pass
				30	4.0	7.820	0.0031	-2.5 to 2.5	Pass	
	40	4.0	6.970	0.0027	-2.5 to 2.5	Pass				
	50	4.0	1.265	0.0005	-2.5 to 2.5	Pass				
	2560	100	0	20	3.8	3.087	0.0012	-2.5 to 2.5	Pass	
					4.0	0.993	0.0004	-2.5 to 2.5	Pass	
					4.2	-1.665	-0.0007	-2.5 to 2.5	Pass	
				-30	4.0	4.610	0.0018	-2.5 to 2.5	Pass	
					-20	4.0	-5.871	-0.0023	-2.5 to 2.5	Pass
4.0						4.682	0.0018	-2.5 to 2.5	Pass	
0				4.0	1.994	0.0008	-2.5 to 2.5	Pass		
				10	4.0	-7.115	-0.0028	-2.5 to 2.5	Pass	
30				4.0	1.572	0.0006	-2.5 to 2.5	Pass		
40	4.0	0.536	0.0002	-2.5 to 2.5	Pass					
50	4.0	2.659	0.0010	-2.5 to 2.5	Pass					
16QAM	2510	100	0	20	3.8	-1.827	-0.0007	-2.5 to 2.5	Pass	
					4.0	-3.393	-0.0014	-2.5 to 2.5	Pass	
					4.2	-17.458	-0.0070	-2.5 to 2.5	Pass	
				-30	4.0	-3.472	-0.0014	-2.5 to 2.5	Pass	
					-20	4.0	-8.047	-0.0032	-2.5 to 2.5	Pass
						4.0	-11.727	-0.0047	-2.5 to 2.5	Pass
				0	4.0	-6.920	-0.0028	-2.5 to 2.5	Pass	
					10	4.0	-15.301	-0.0061	-2.5 to 2.5	Pass
				30	4.0	-9.915	-0.0040	-2.5 to 2.5	Pass	



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64QAM	2535	100	0	40	4.0	-7.246	-0.0029	-2.5 to 2.5	Pass		
				50	4.0	-8.573	-0.0034	-2.5 to 2.5	Pass		
				20	3.8	4.570	0.0018	-2.5 to 2.5	Pass		
					4.0	-7.963	-0.0031	-2.5 to 2.5	Pass		
					4.2	0.414	0.0002	-2.5 to 2.5	Pass		
				-30	4.0	-0.499	-0.0002	-2.5 to 2.5	Pass		
				-20	4.0	-7.580	-0.0030	-2.5 to 2.5	Pass		
				-10	4.0	2.948	0.0012	-2.5 to 2.5	Pass		
				0	4.0	-8.741	-0.0034	-2.5 to 2.5	Pass		
				10	4.0	-8.251	-0.0033	-2.5 to 2.5	Pass		
				30	4.0	-5.319	-0.0021	-2.5 to 2.5	Pass		
				40	4.0	5.320	0.0021	-2.5 to 2.5	Pass		
				50	4.0	-2.437	-0.0010	-2.5 to 2.5	Pass		
				2560	100	0	20	3.8	0.617	0.0002	-2.5 to 2.5
	4.0	-5.582	-0.0022					-2.5 to 2.5	Pass		
	4.2	-1.225	-0.0005					-2.5 to 2.5	Pass		
	-30	4.0	6.963				0.0027	-2.5 to 2.5	Pass		
	-20	4.0	-4.590				-0.0018	-2.5 to 2.5	Pass		
	-10	4.0	-5.633				-0.0022	-2.5 to 2.5	Pass		
	0	4.0	2.385				0.0009	-2.5 to 2.5	Pass		
	10	4.0	-5.088				-0.0020	-2.5 to 2.5	Pass		
	30	4.0	5.463				0.0021	-2.5 to 2.5	Pass		
	40	4.0	-5.835				-0.0023	-2.5 to 2.5	Pass		
	50	4.0	0.437				0.0002	-2.5 to 2.5	Pass		
	2510	100	0				20	3.8	-18.568	-0.0074	-2.5 to 2.5
				4.0	-6.163	-0.0025		-2.5 to 2.5	Pass		
4.2				-4.273	-0.0017	-2.5 to 2.5		Pass			
-30				4.0	-5.257	-0.0021	-2.5 to 2.5	Pass			
-20				4.0	-18.561	-0.0074	-2.5 to 2.5	Pass			
-10				4.0	-15.922	-0.0063	-2.5 to 2.5	Pass			
0				4.0	-9.848	-0.0039	-2.5 to 2.5	Pass			
10				4.0	-4.590	-0.0018	-2.5 to 2.5	Pass			
30				4.0	-8.592	-0.0034	-2.5 to 2.5	Pass			
40				4.0	-4.022	-0.0016	-2.5 to 2.5	Pass			
50				4.0	-8.536	-0.0034	-2.5 to 2.5	Pass			
2535				100	0	20	3.8	3.361	0.0013	-2.5 to 2.5	Pass
							4.0	-5.331	-0.0021	-2.5 to 2.5	Pass
							4.2	-7.946	-0.0031	-2.5 to 2.5	Pass
						-30	4.0	4.078	0.0016	-2.5 to 2.5	Pass
						-20	4.0	-6.640	-0.0026	-2.5 to 2.5	Pass
						-10	4.0	3.506	0.0014	-2.5 to 2.5	Pass
						0	4.0	5.897	0.0023	-2.5 to 2.5	Pass
	10	4.0	3.788			0.0015	-2.5 to 2.5	Pass			
	30	4.0	-10.794			-0.0043	-2.5 to 2.5	Pass			
	40	4.0	-9.518			-0.0038	-2.5 to 2.5	Pass			
50	4.0	4.174	0.0016	-2.5 to 2.5	Pass						
2560	100	0	20	3.8	-1.178	-0.0005	-2.5 to 2.5	Pass			
				4.0	-5.029	-0.0020	-2.5 to 2.5	Pass			
				4.2	5.193	0.0020	-2.5 to 2.5	Pass			
			-30	4.0	0.722	0.0003	-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

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				-20	4.0	-6.886	-0.0027	-2.5 to 2.5	Pass
				-10	4.0	-6.589	-0.0026	-2.5 to 2.5	Pass
				0	4.0	7.363	0.0029	-2.5 to 2.5	Pass
				10	4.0	-4.105	-0.0016	-2.5 to 2.5	Pass
				30	4.0	1.076	0.0004	-2.5 to 2.5	Pass
				40	4.0	-5.854	-0.0023	-2.5 to 2.5	Pass
				50	4.0	-3.663	-0.0014	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band7_OBW

2.1.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.544	/	Pass
		2535	25	0	4.549	/	Pass
		2567.5	25	0	4.565	/	Pass
	16QAM	2502.5	25	0	4.551	/	Pass
		2535	25	0	4.549	/	Pass
		2567.5	25	0	4.534	/	Pass
	64QAM	2502.5	25	0	4.540	/	Pass
		2535	25	0	4.536	/	Pass
		2567.5	25	0	4.539	/	Pass
10	QPSK	2505	50	0	9.040	/	Pass
		2535	50	0	9.013	/	Pass
		2565	50	0	9.025	/	Pass
	16QAM	2505	50	0	9.049	/	Pass
		2535	50	0	9.027	/	Pass
		2565	50	0	9.047	/	Pass
	64QAM	2505	50	0	9.058	/	Pass
		2535	50	0	9.034	/	Pass
		2565	50	0	9.027	/	Pass
15	QPSK	2507.5	75	0	13.609	/	Pass
		2535	75	0	13.548	/	Pass
		2562.5	75	0	13.599	/	Pass
	16QAM	2507.5	75	0	13.600	/	Pass
		2535	75	0	13.553	/	Pass
		2562.5	75	0	13.623	/	Pass
	64QAM	2507.5	75	0	13.562	/	Pass
		2535	75	0	13.541	/	Pass
		2562.5	75	0	13.624	/	Pass
20	QPSK	2510	100	0	18.077	/	Pass
		2535	100	0	18.082	/	Pass
		2560	100	0	18.086	/	Pass
	16QAM	2510	100	0	18.060	/	Pass
		2535	100	0	18.072	/	Pass
		2560	100	0	18.111	/	Pass
	64QAM	2510	100	0	18.011	/	Pass
		2535	100	0	18.110	/	Pass
		2560	100	0	18.072	/	Pass

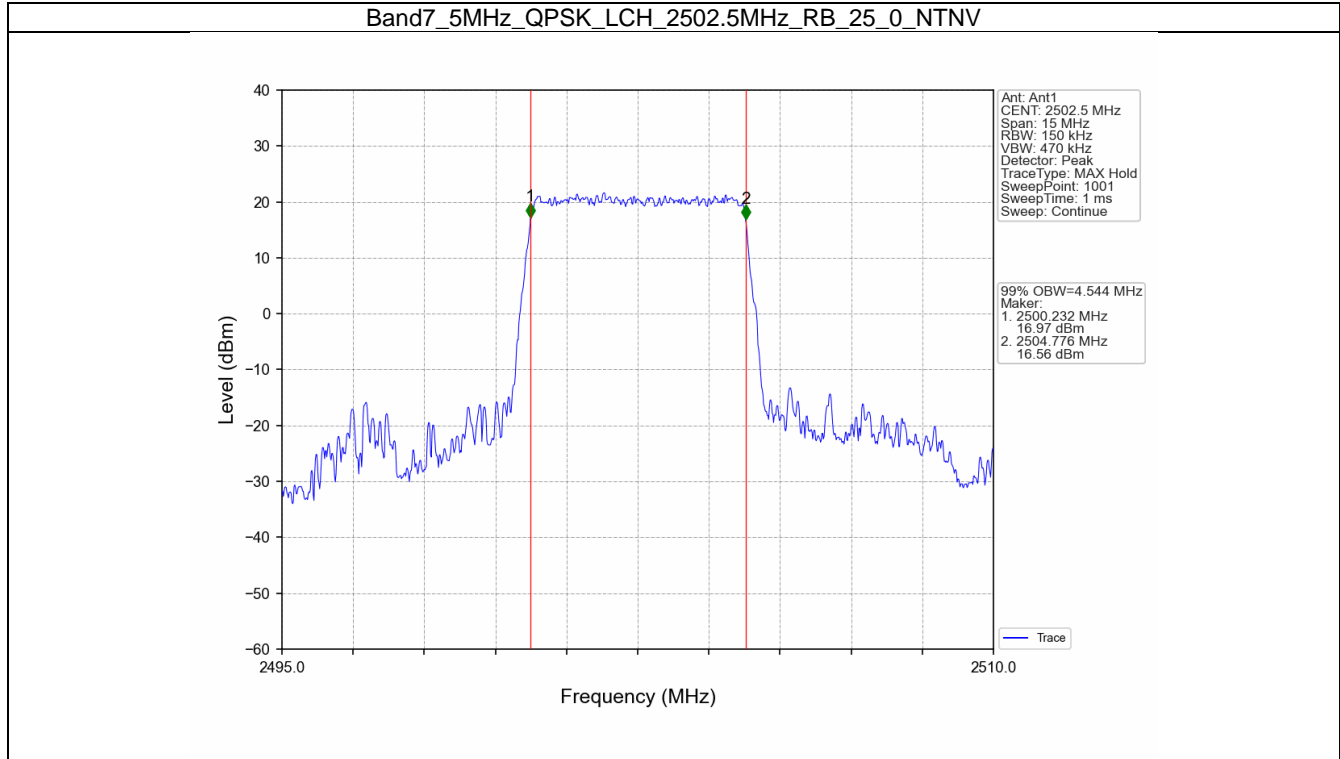


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2.1.2 Test Graph

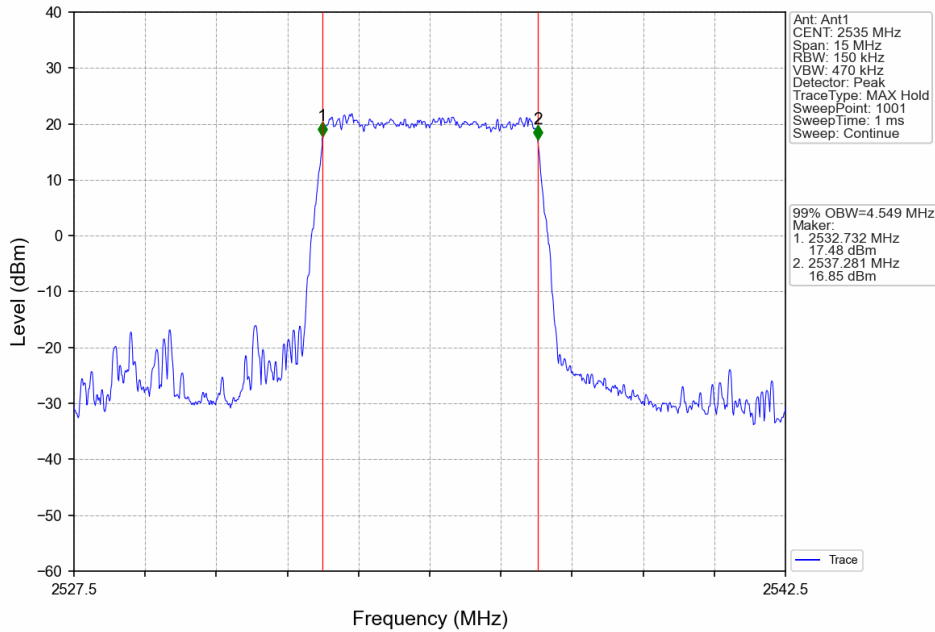


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Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV

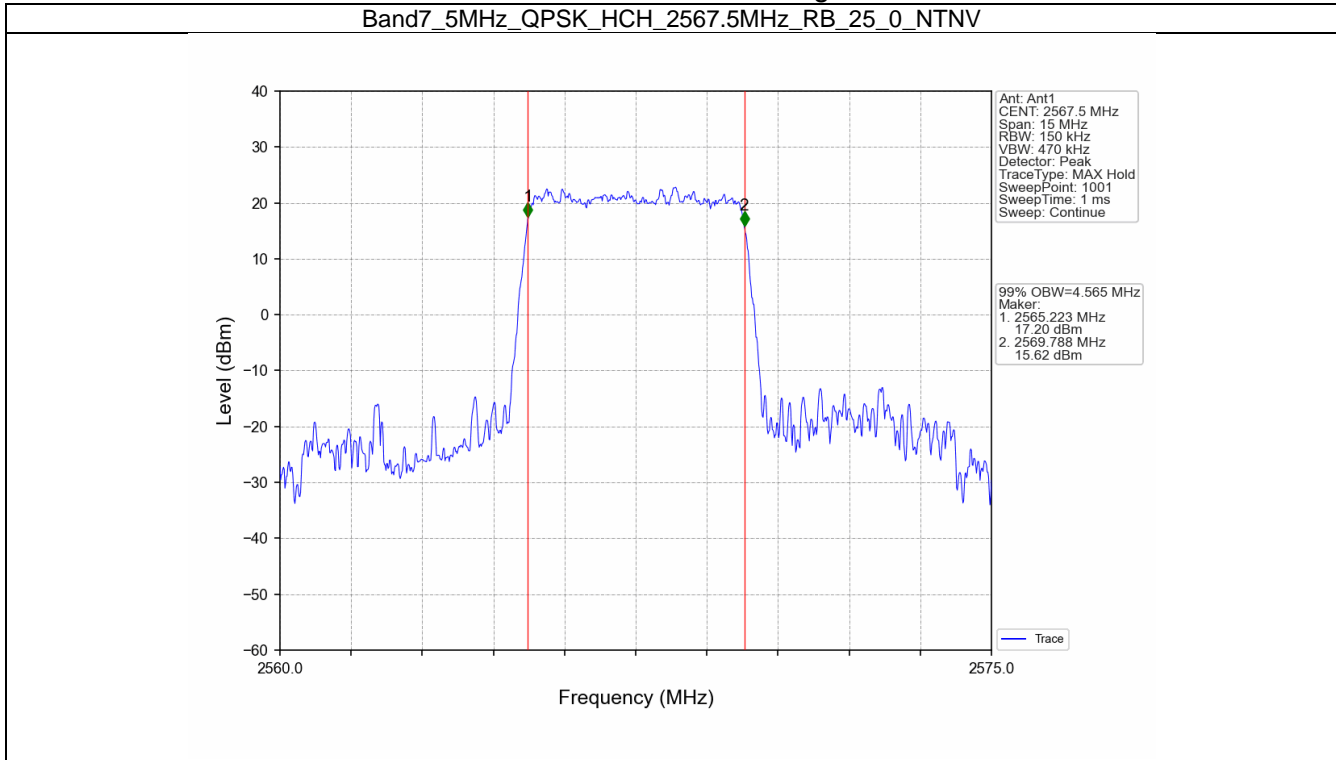


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Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



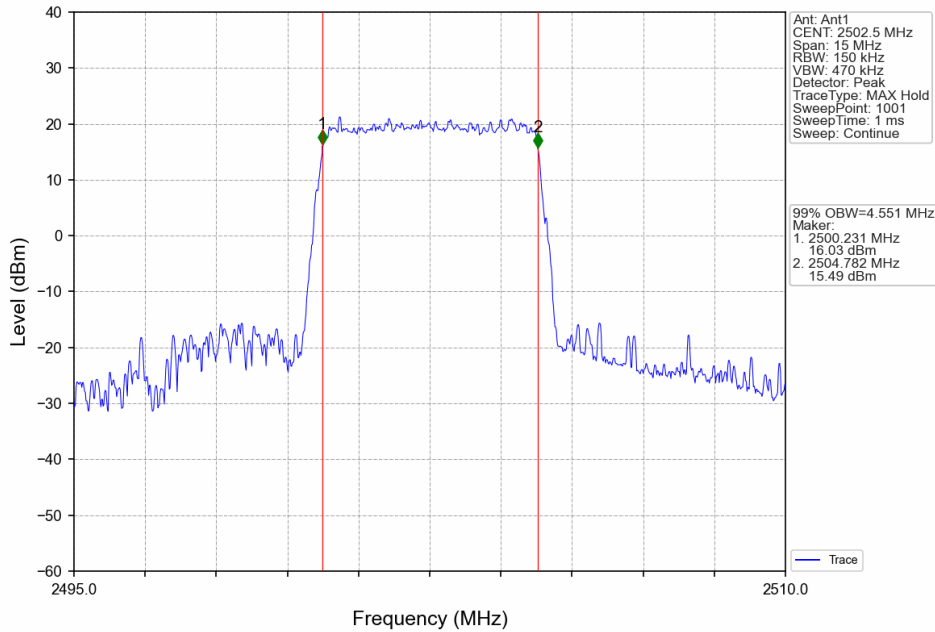
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Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV

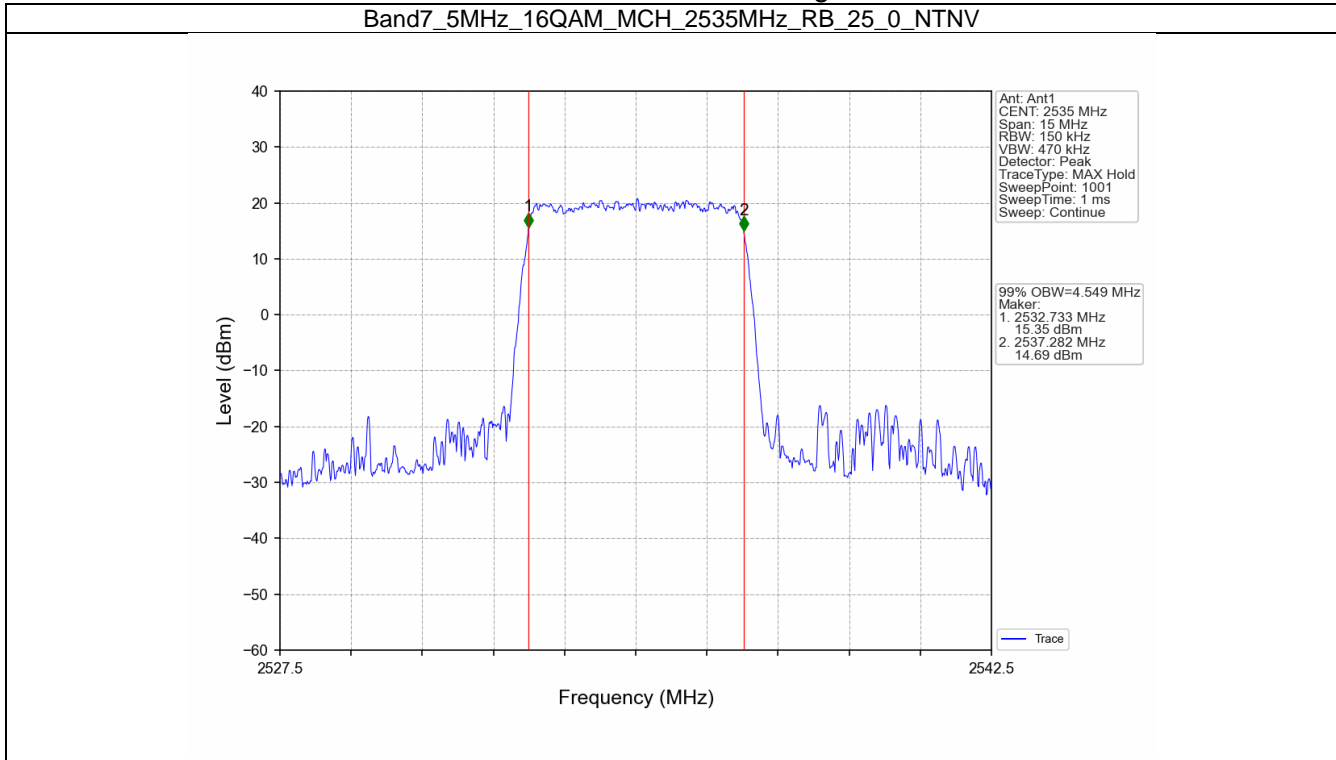


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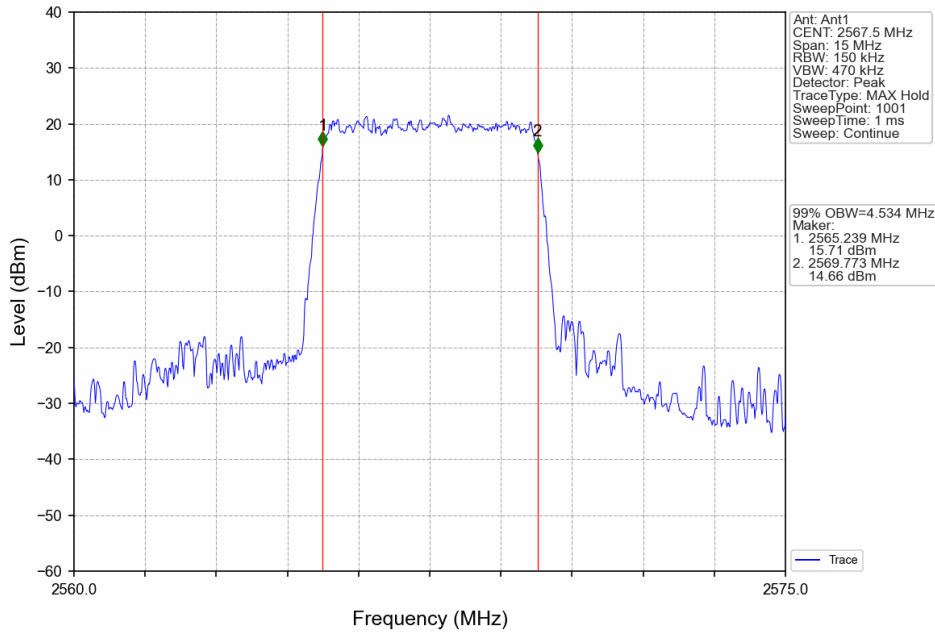
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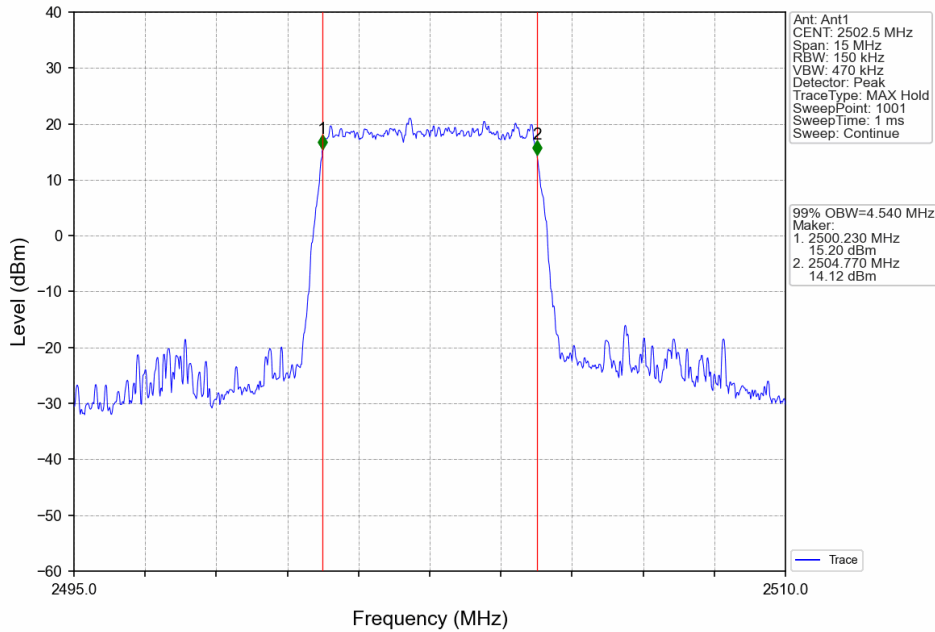
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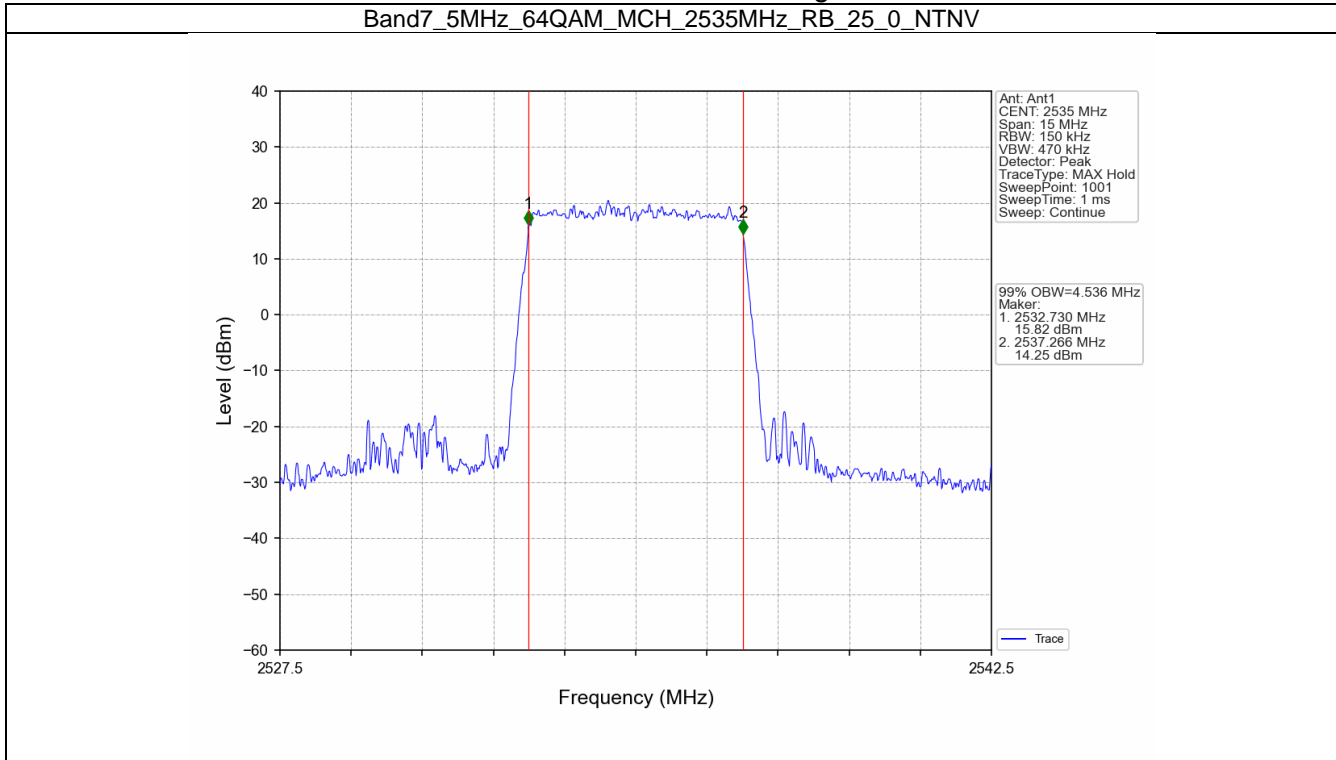


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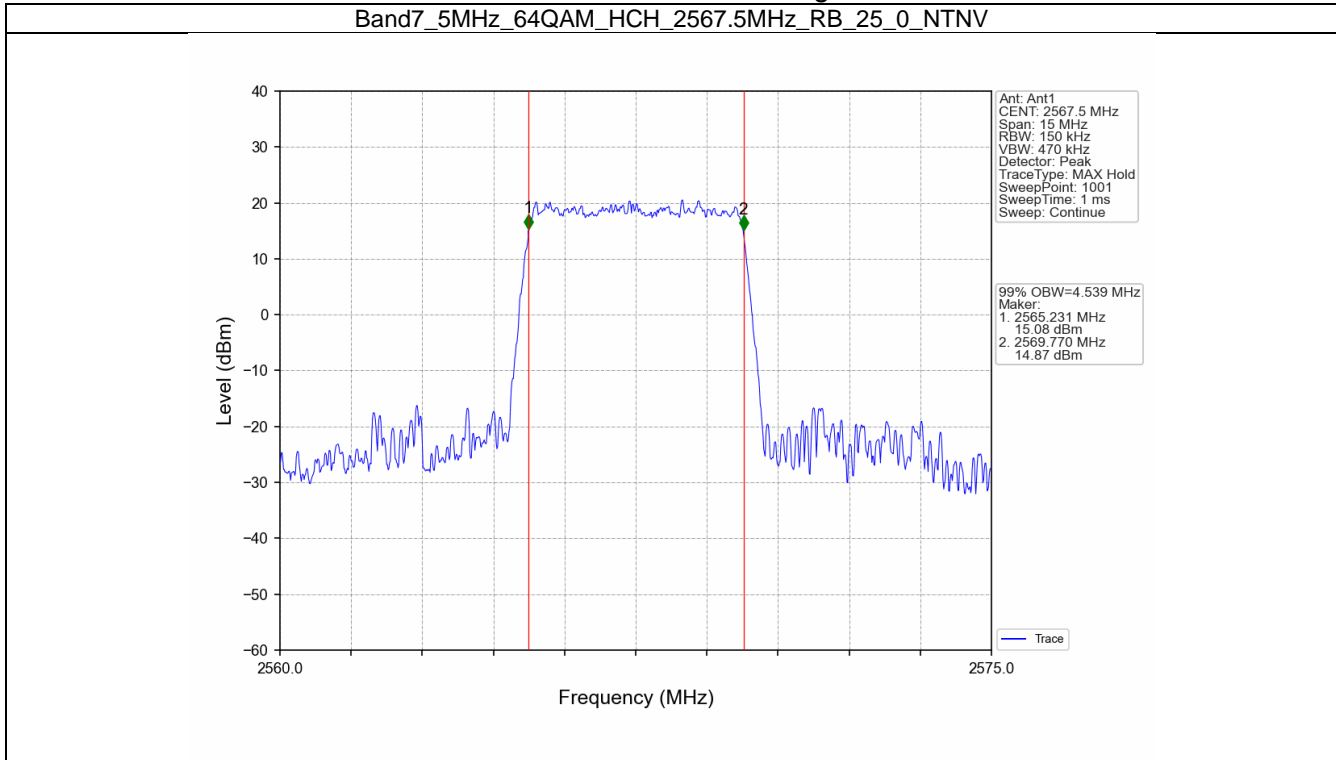
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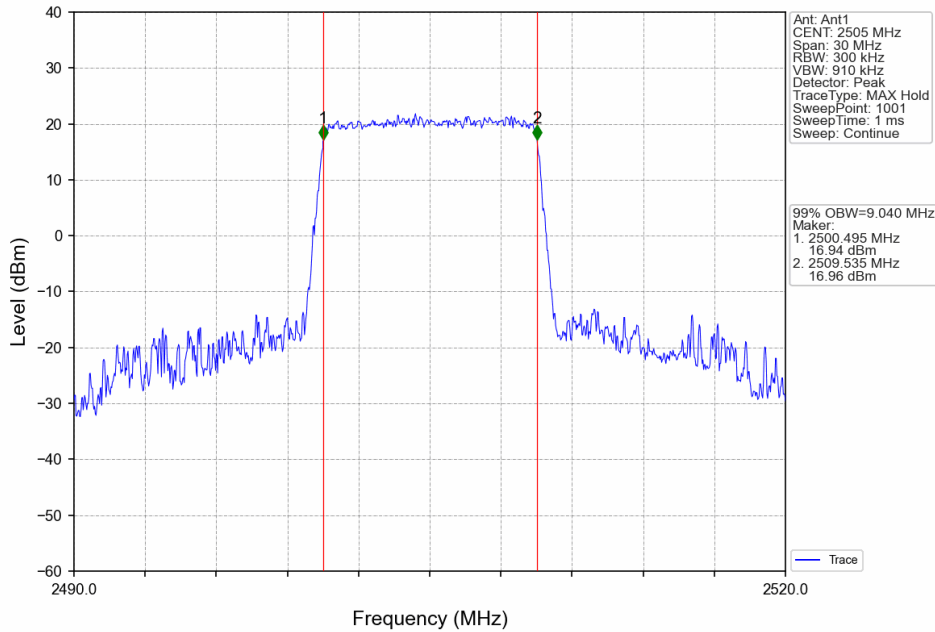


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Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV

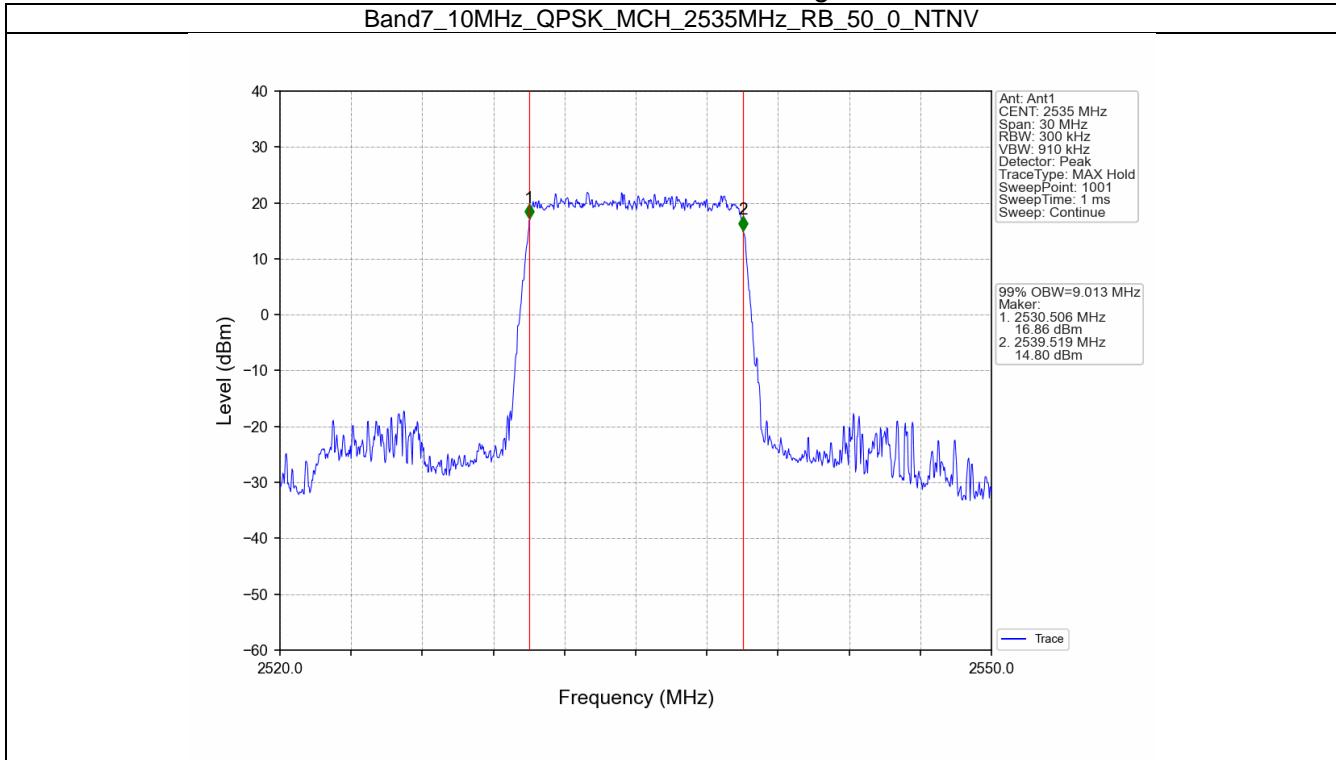


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Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



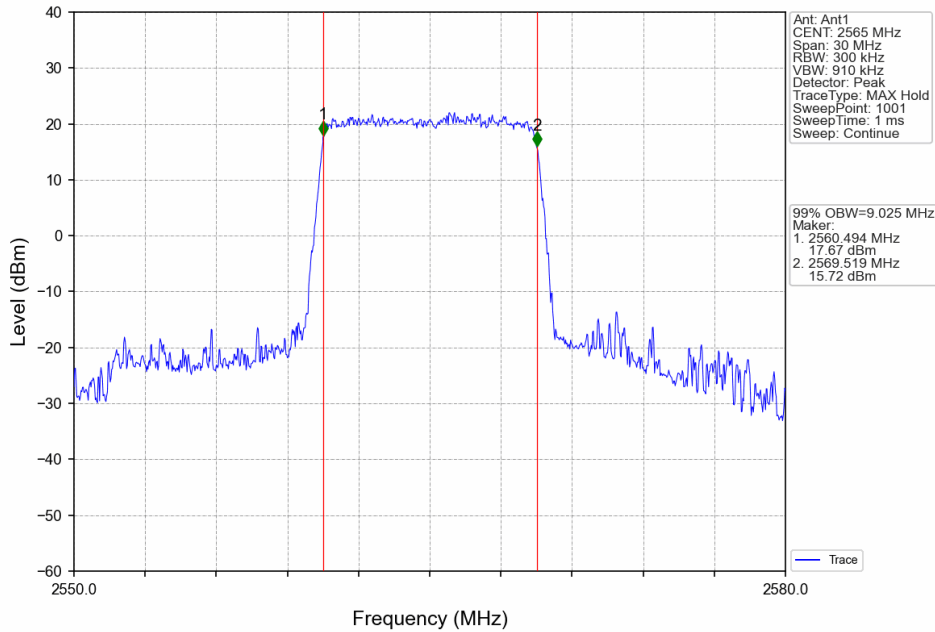
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Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV

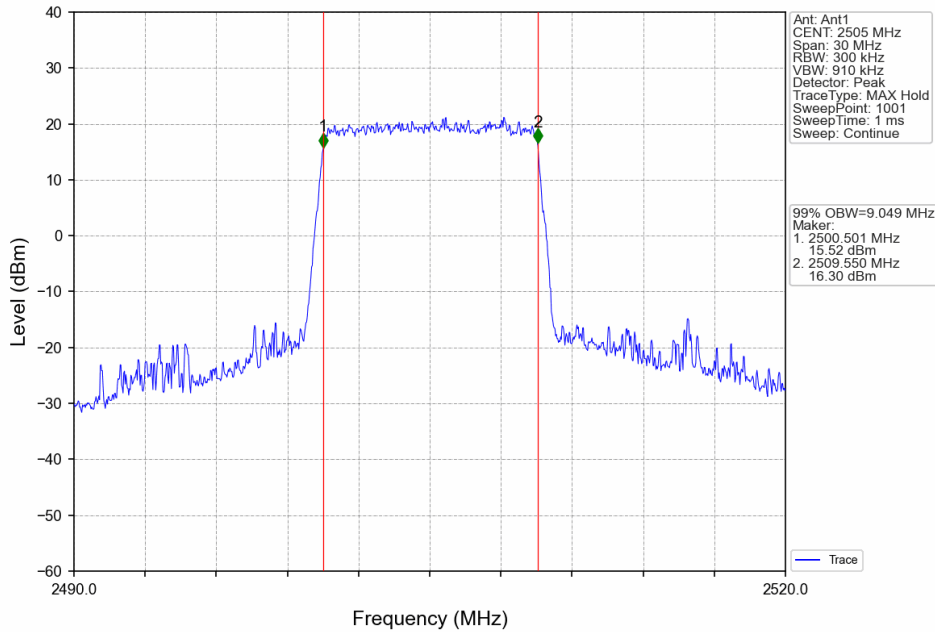


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Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV

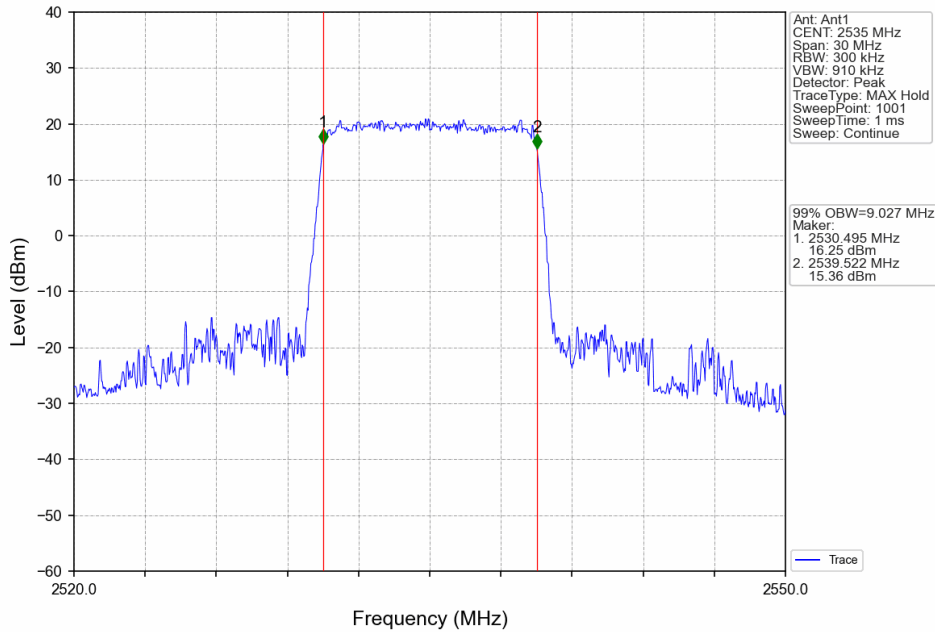


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Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



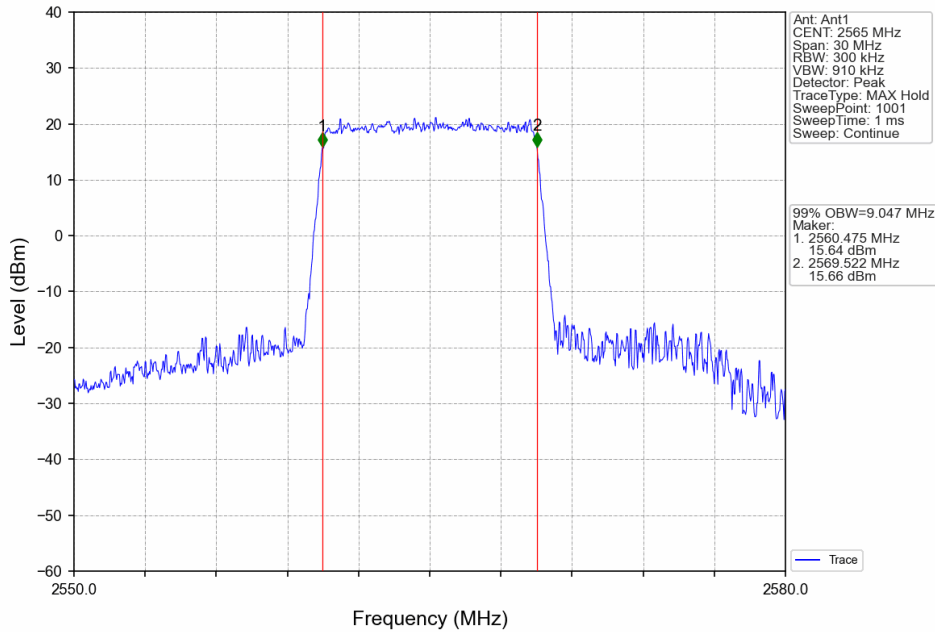
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Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



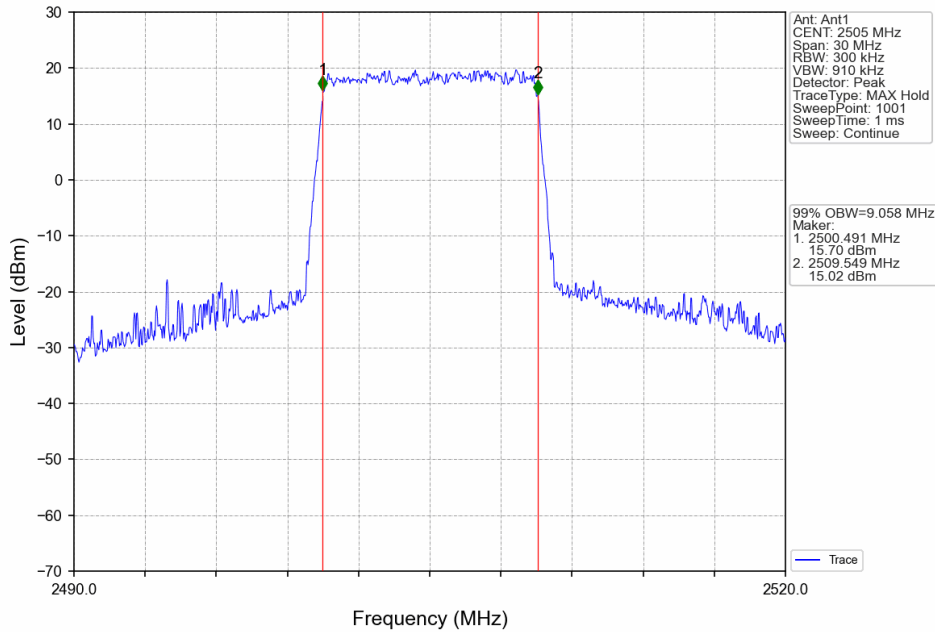
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Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV

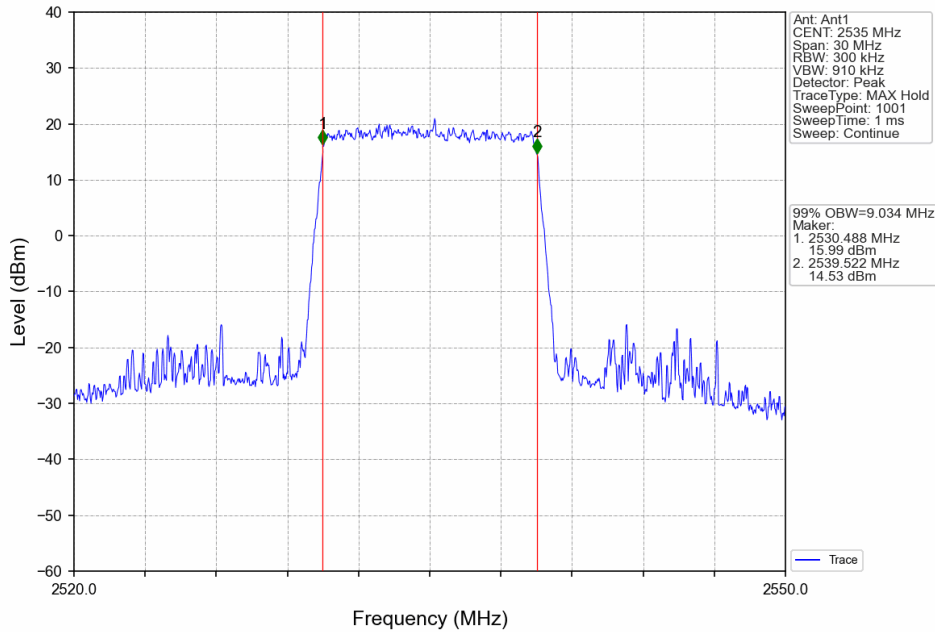


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Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV

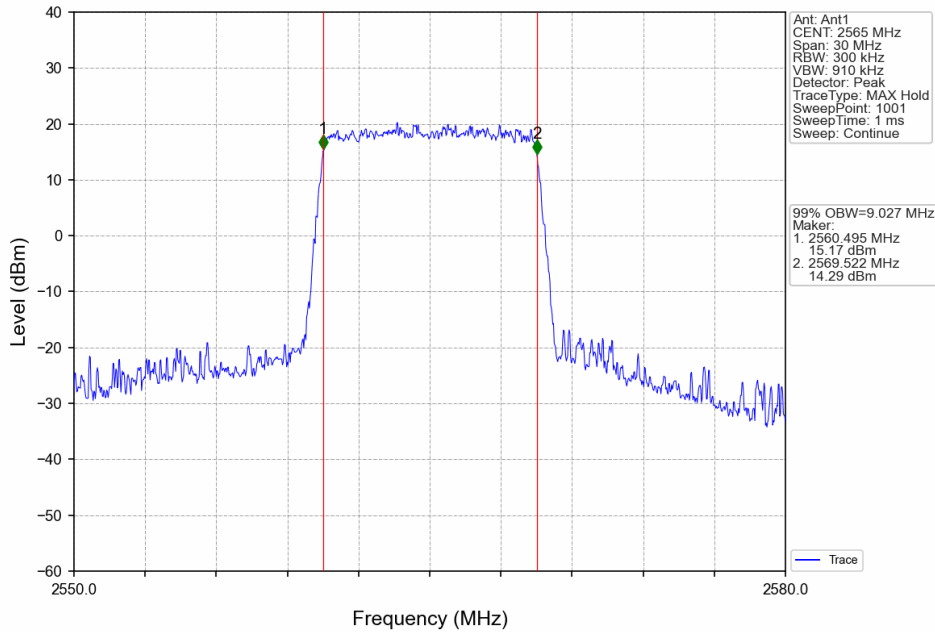


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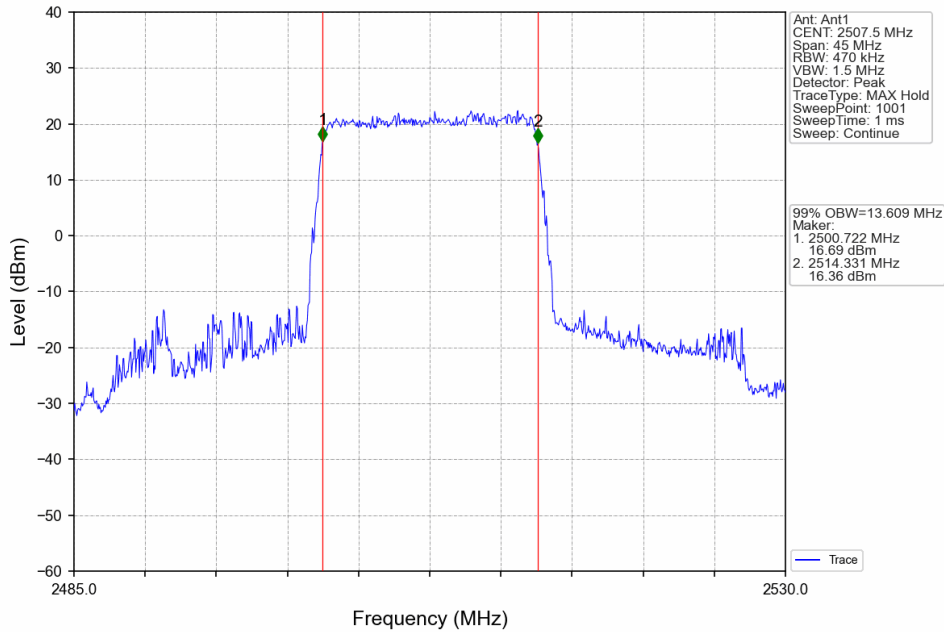


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Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



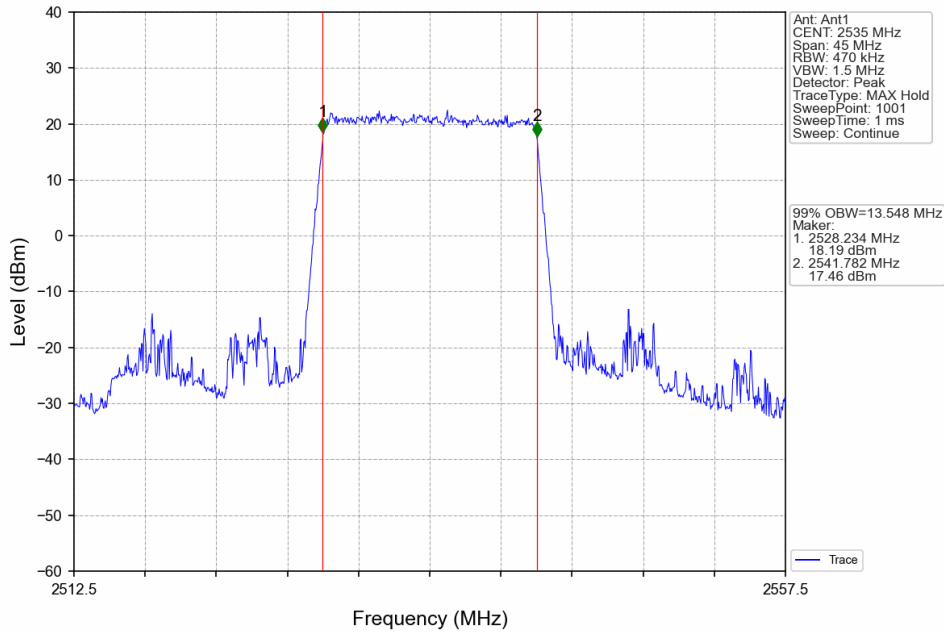
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Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV

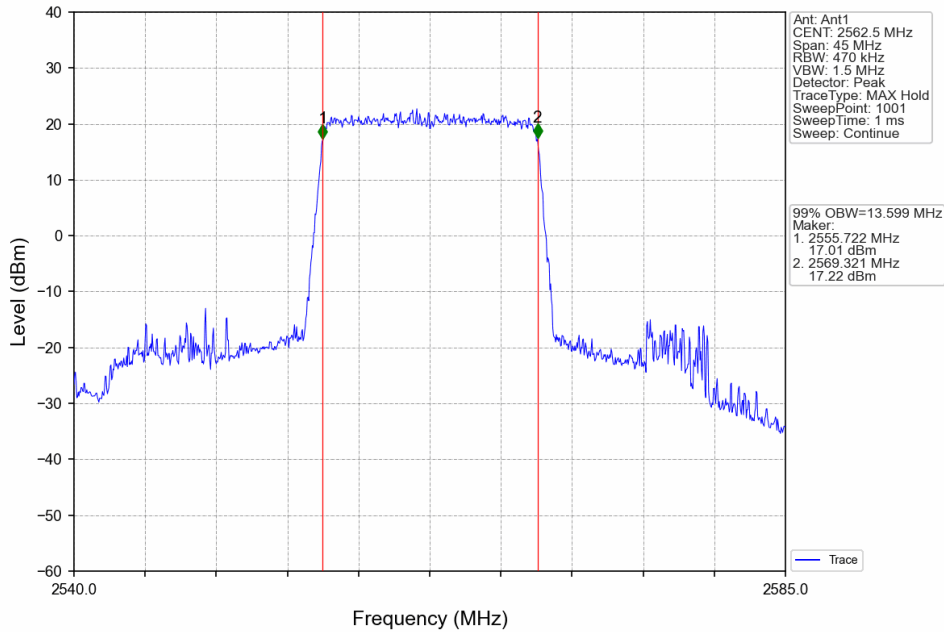


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Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV

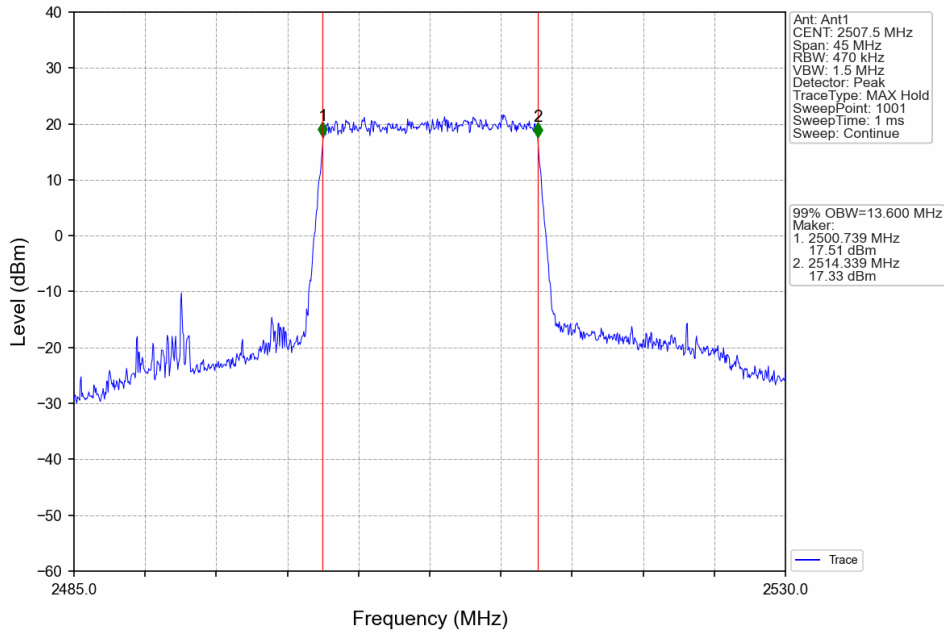


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Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV

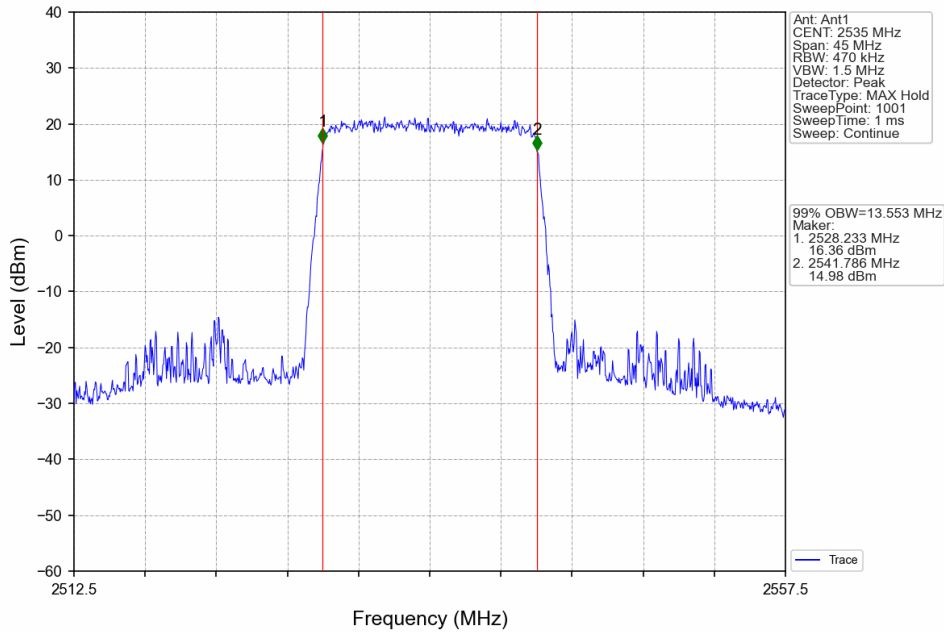


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Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV

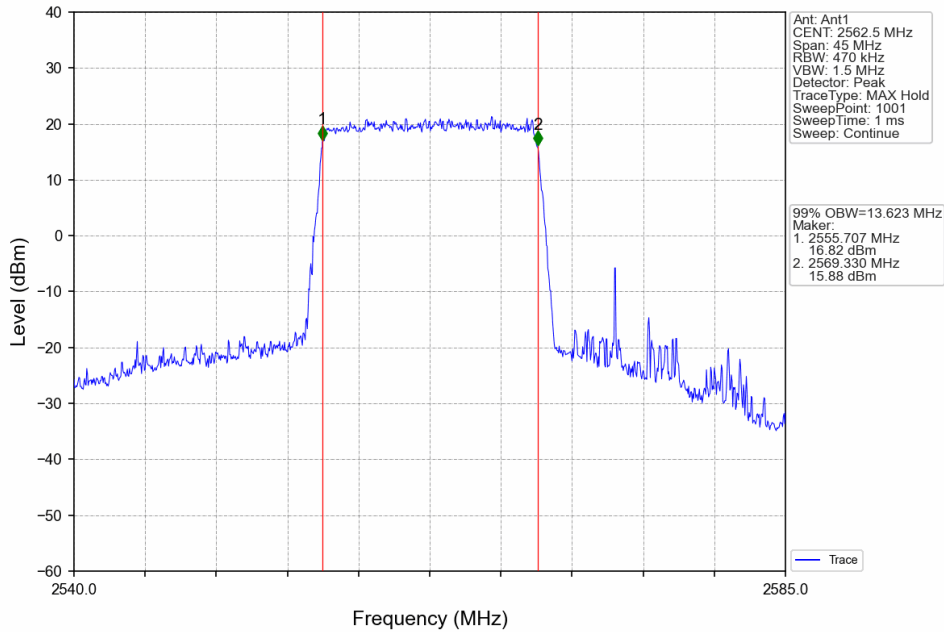


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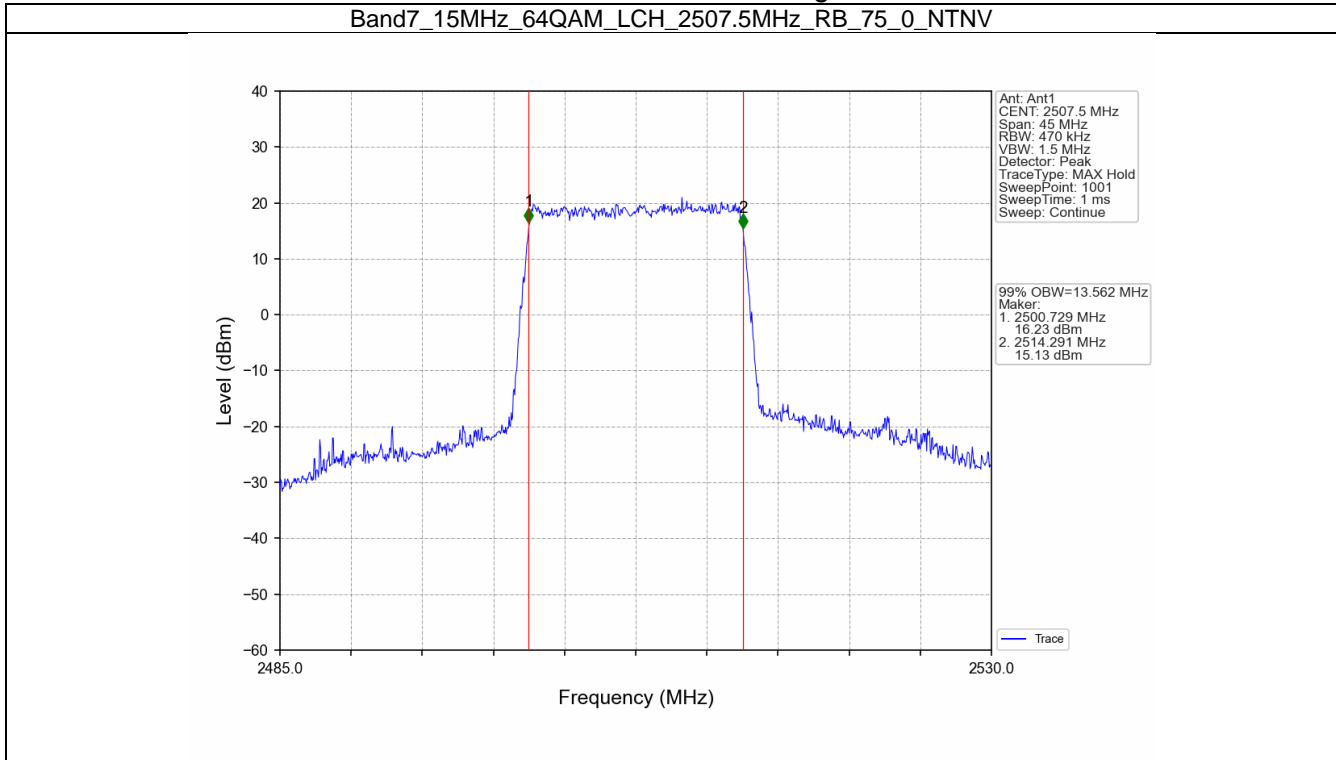
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



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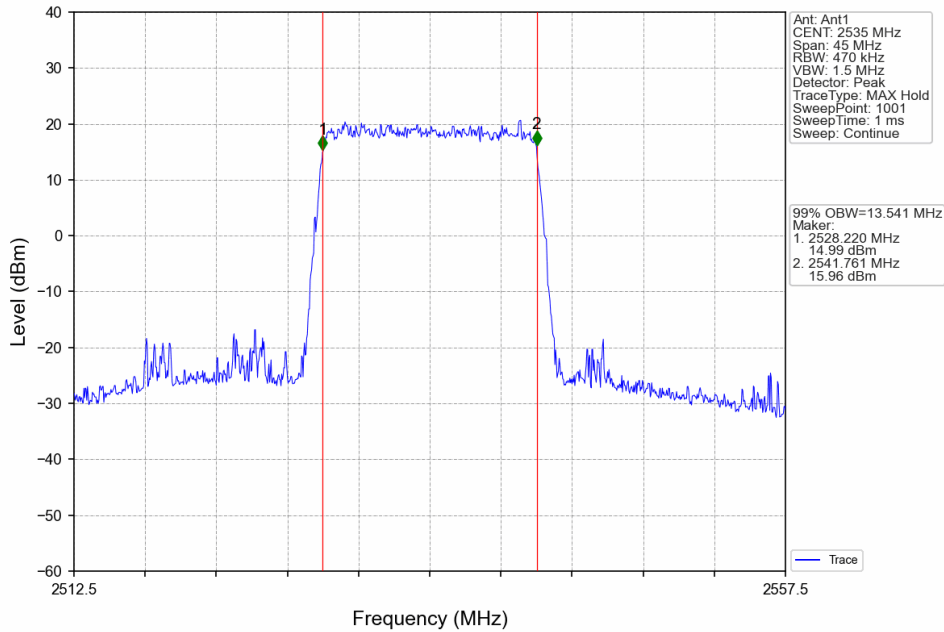


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Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV

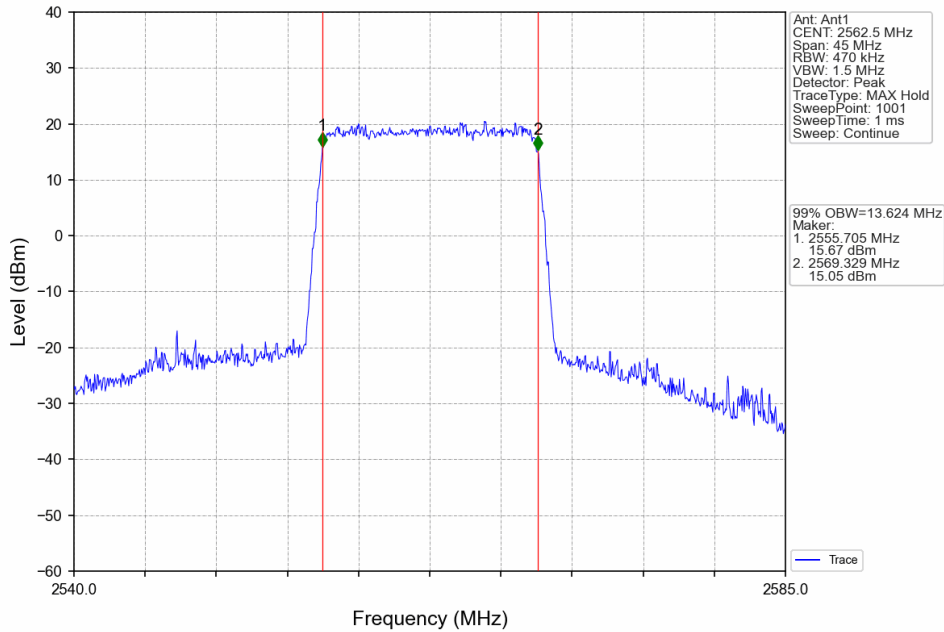


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Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV

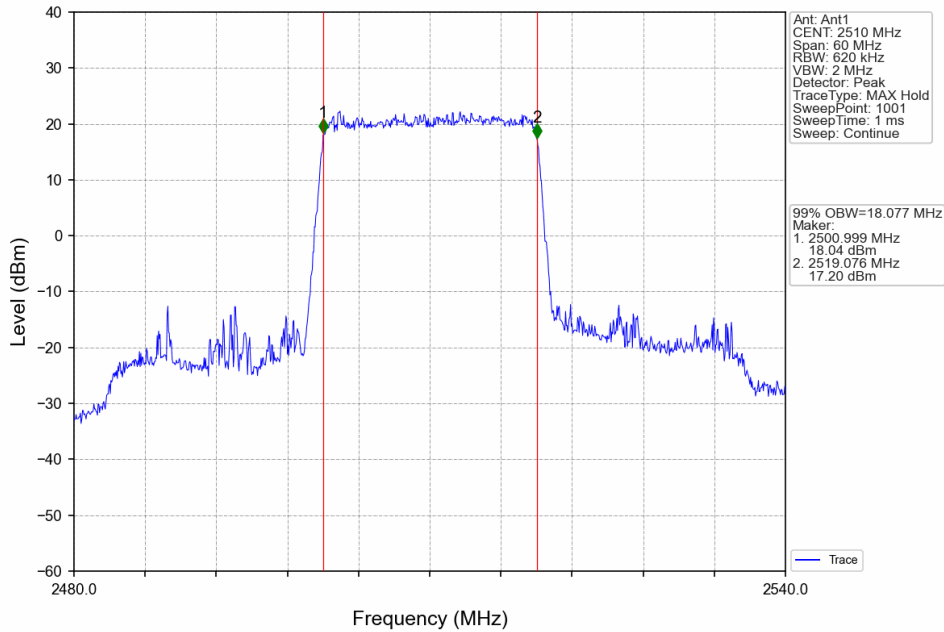


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Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV

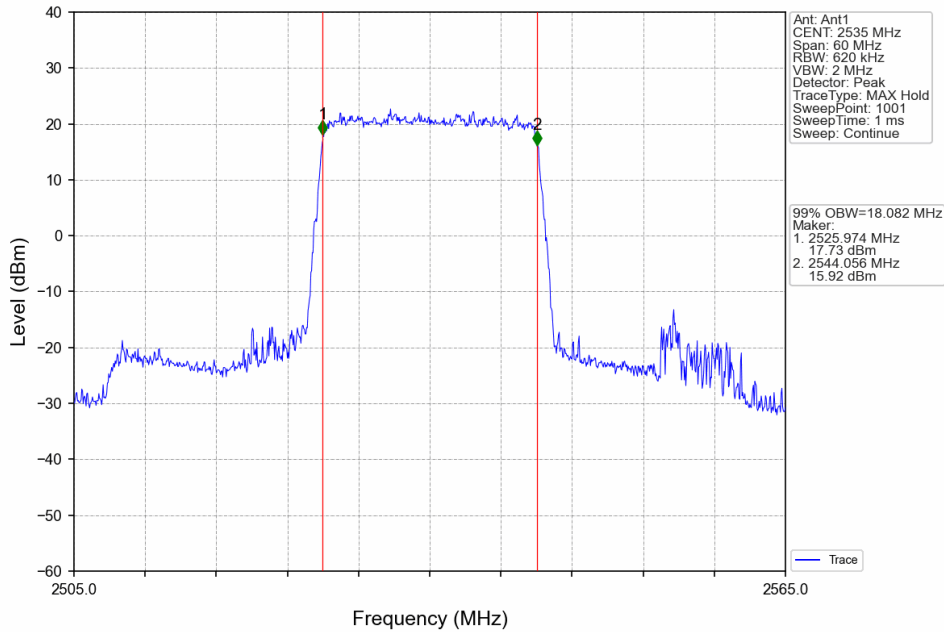


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Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV

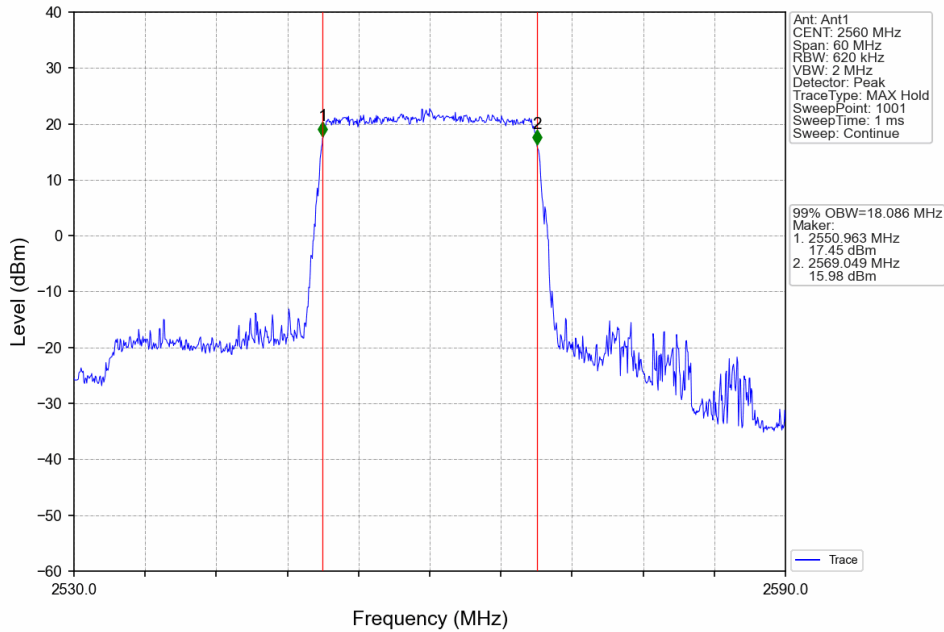


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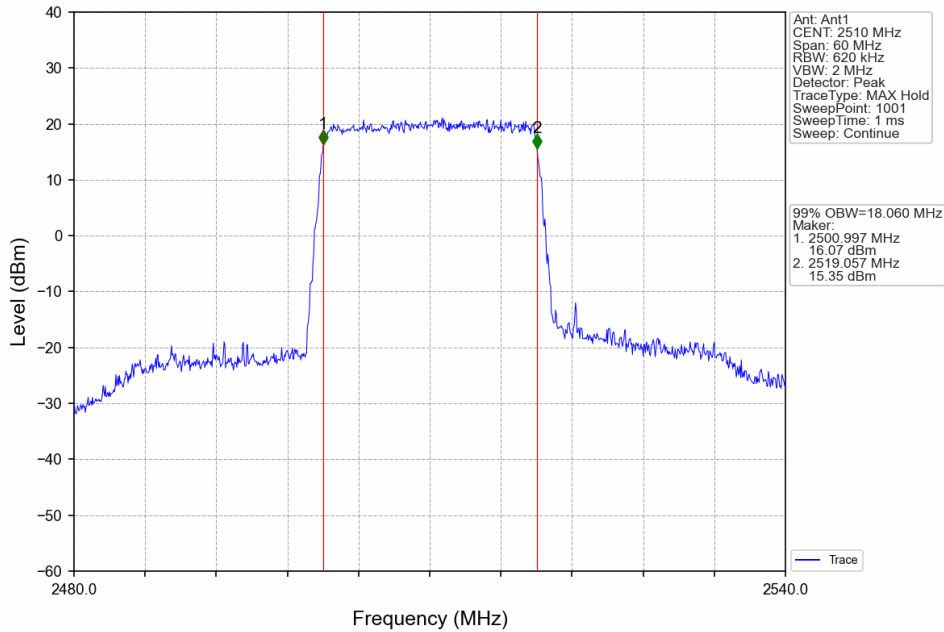
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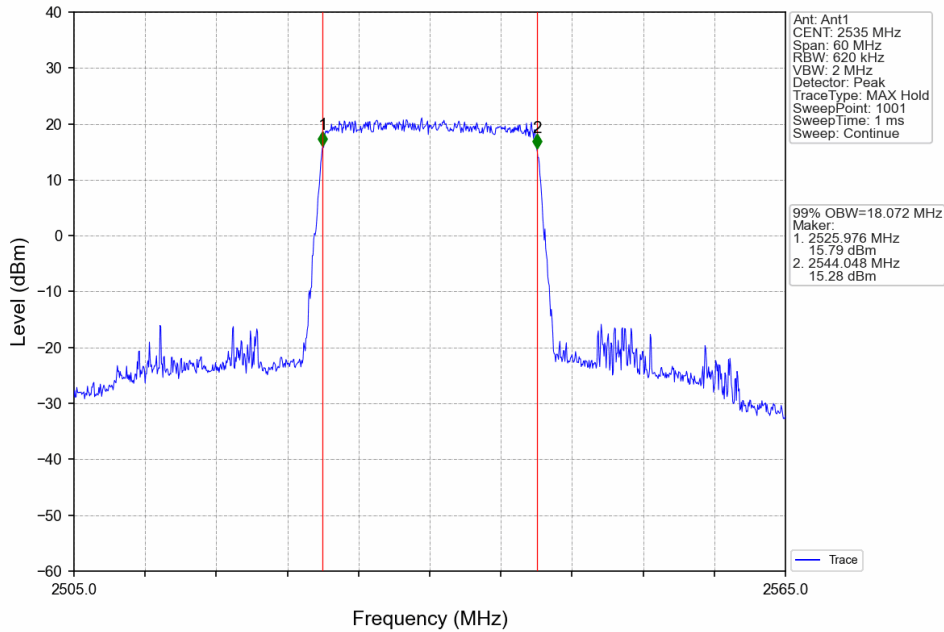


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Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

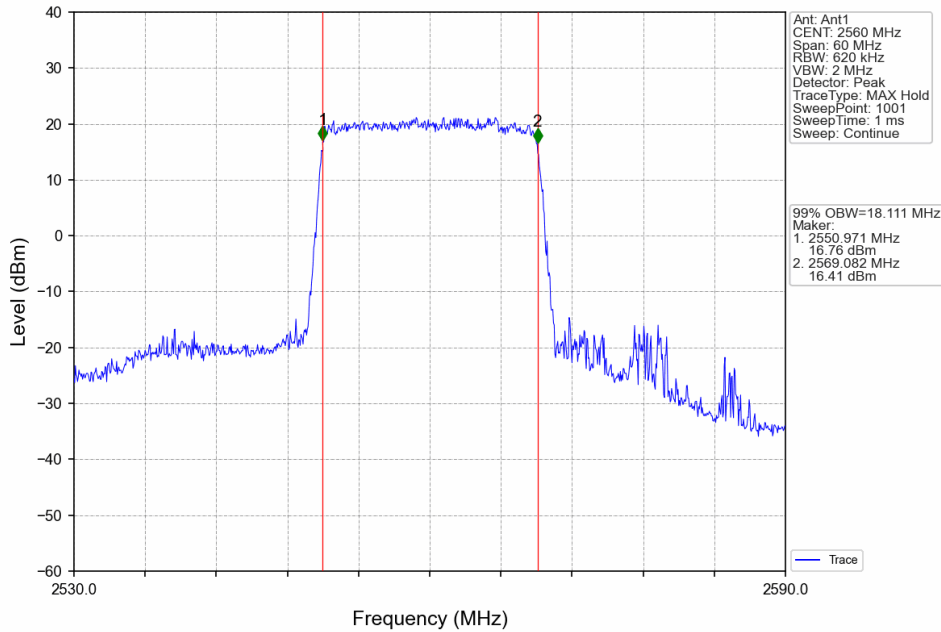


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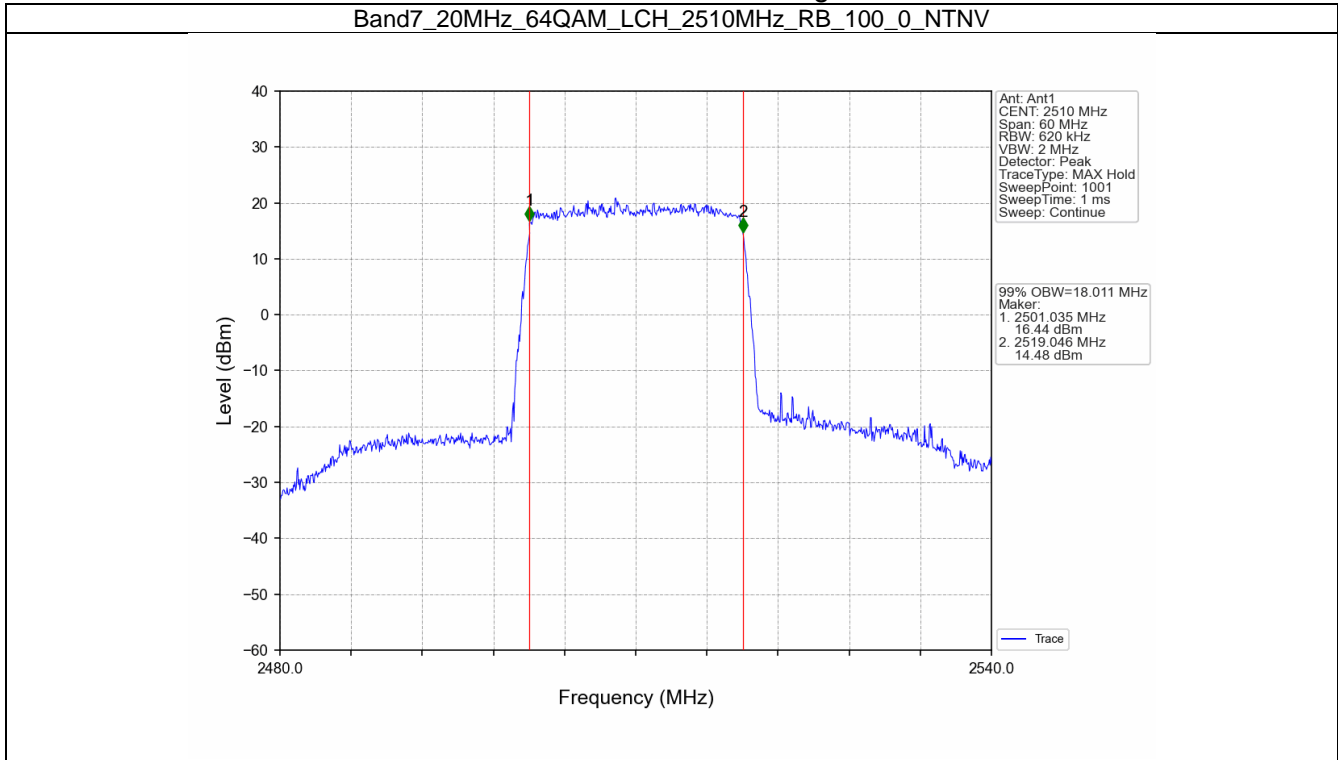
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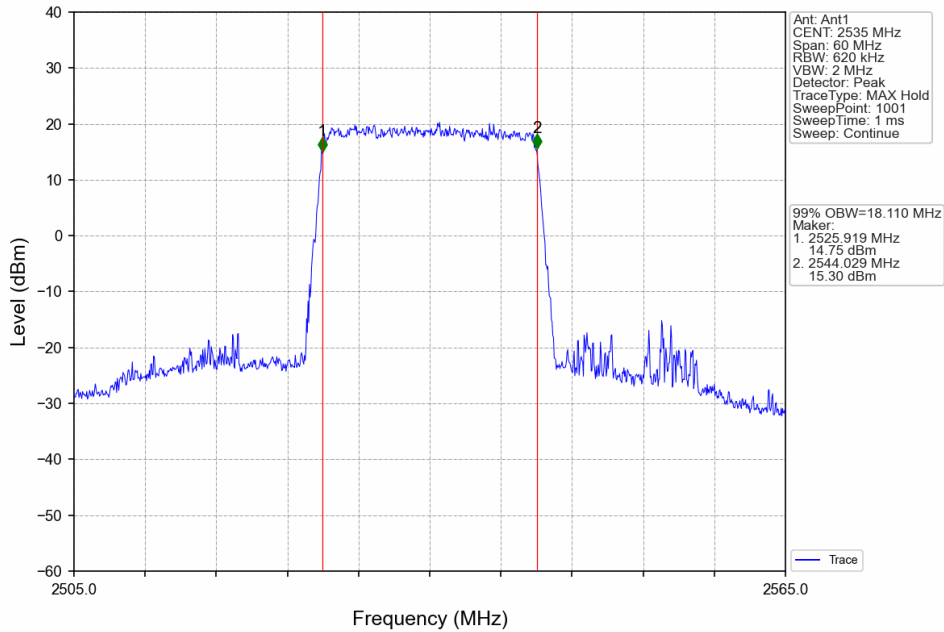


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Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV

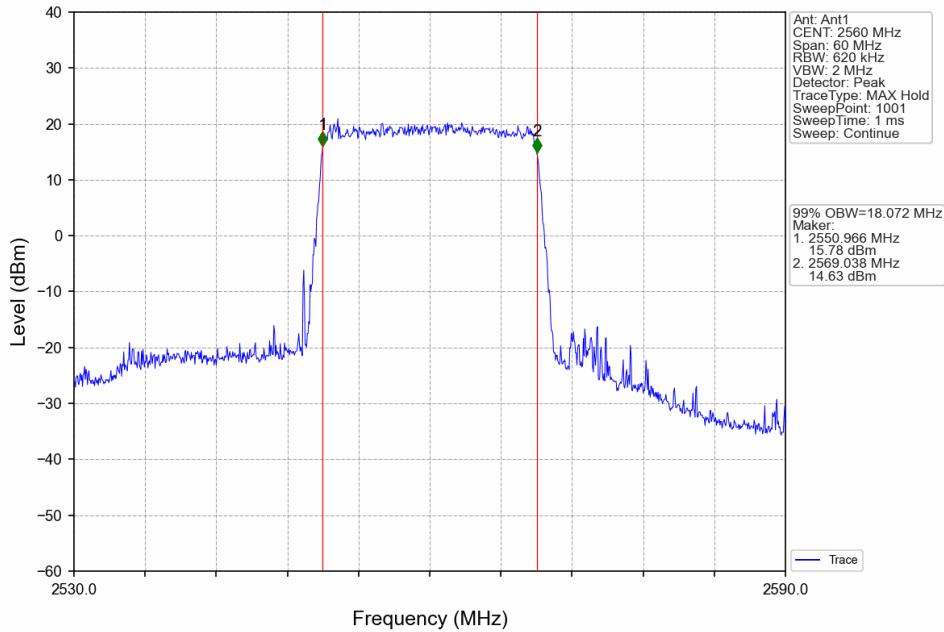


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Band7_20MHz_64QAM_HCH_2560MHz_RB_100_0_NTNV



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2.2 Band7_XDB

2.2.1 Test Result

Band: 7 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.051	/	Pass
		2535	25	0	5.074	/	Pass
		2567.5	25	0	5.036	/	Pass
	16QAM	2502.5	25	0	5.081	/	Pass
		2535	25	0	5.067	/	Pass
		2567.5	25	0	5.018	/	Pass
	64QAM	2502.5	25	0	5.031	/	Pass
		2535	25	0	5.035	/	Pass
		2567.5	25	0	5.039	/	Pass
10	QPSK	2505	50	0	9.985	/	Pass
		2535	50	0	9.943	/	Pass
		2565	50	0	10.025	/	Pass
	16QAM	2505	50	0	9.966	/	Pass
		2535	50	0	10.019	/	Pass
		2565	50	0	9.987	/	Pass
	64QAM	2505	50	0	9.955	/	Pass
		2535	50	0	9.899	/	Pass
		2565	50	0	9.970	/	Pass
15	QPSK	2507.5	75	0	15.042	/	Pass
		2535	75	0	14.914	/	Pass
		2562.5	75	0	14.873	/	Pass
	16QAM	2507.5	75	0	14.891	/	Pass
		2535	75	0	14.947	/	Pass
		2562.5	75	0	14.878	/	Pass
	64QAM	2507.5	75	0	14.916	/	Pass
		2535	75	0	14.896	/	Pass
		2562.5	75	0	14.991	/	Pass
20	QPSK	2510	100	0	19.817	/	Pass
		2535	100	0	19.871	/	Pass
		2560	100	0	19.943	/	Pass
	16QAM	2510	100	0	19.881	/	Pass
		2535	100	0	19.838	/	Pass
		2560	100	0	19.789	/	Pass
	64QAM	2510	100	0	19.826	/	Pass
		2535	100	0	19.930	/	Pass
		2560	100	0	19.781	/	Pass

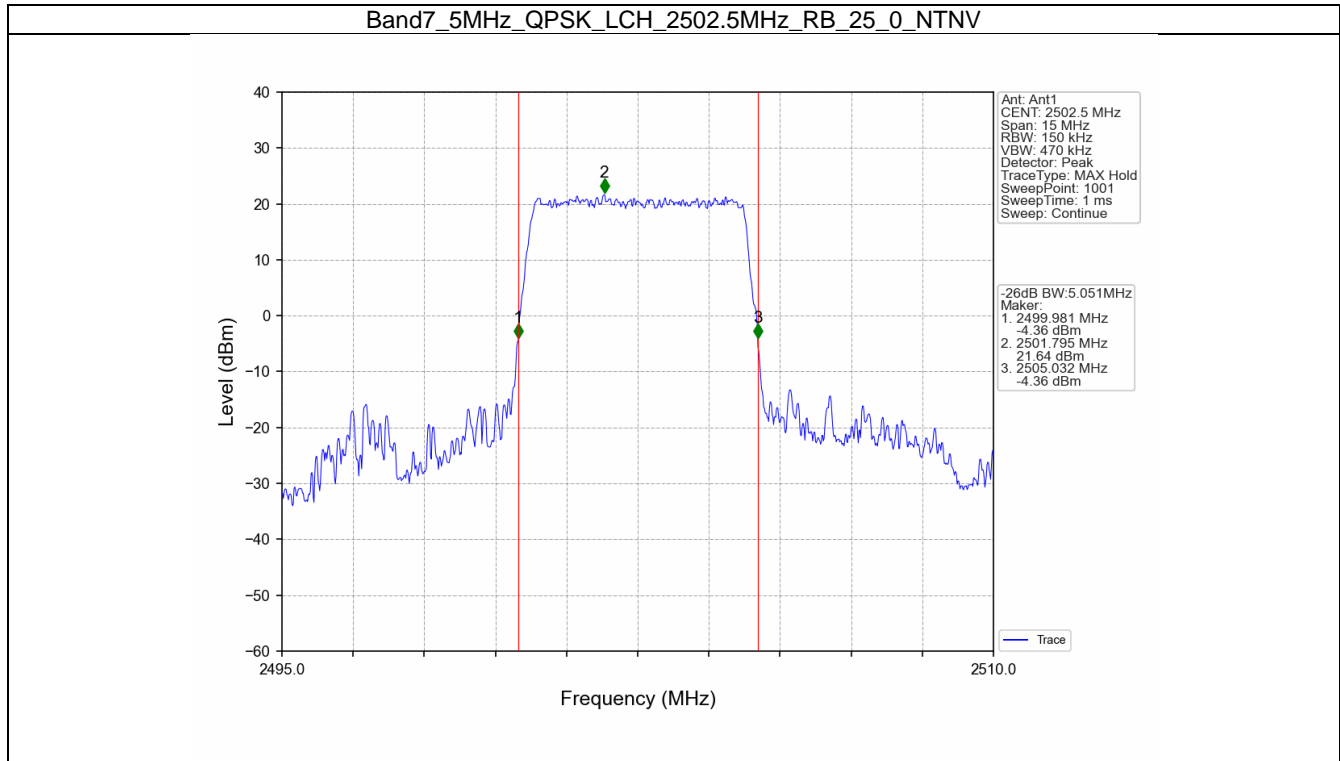


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2.2.2 Test Graph

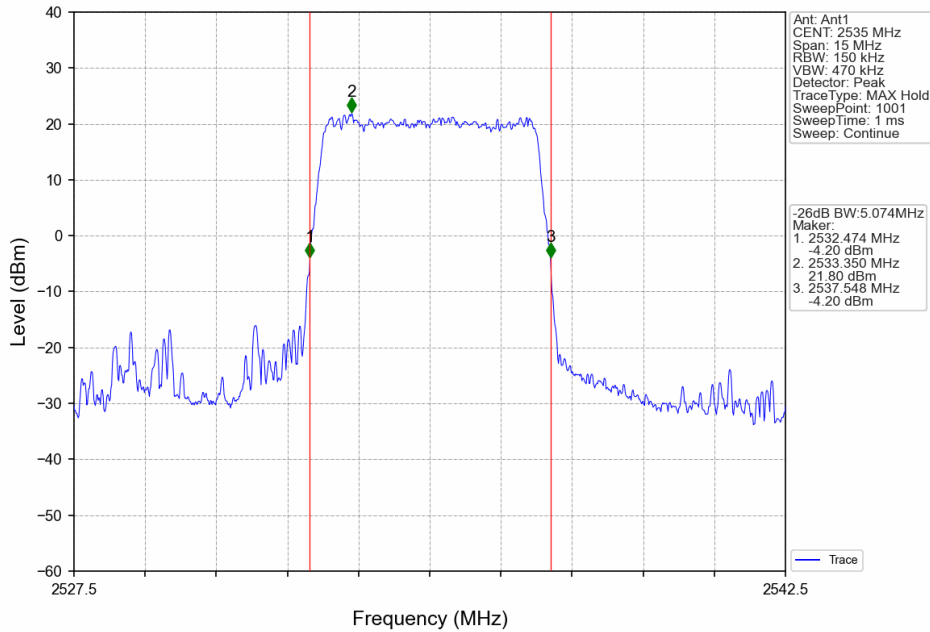


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Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV

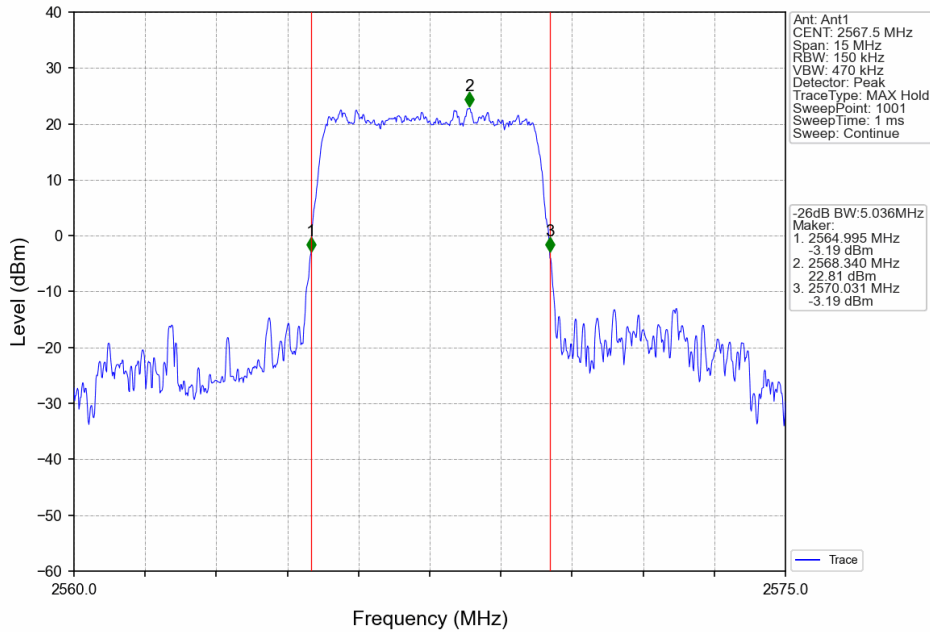


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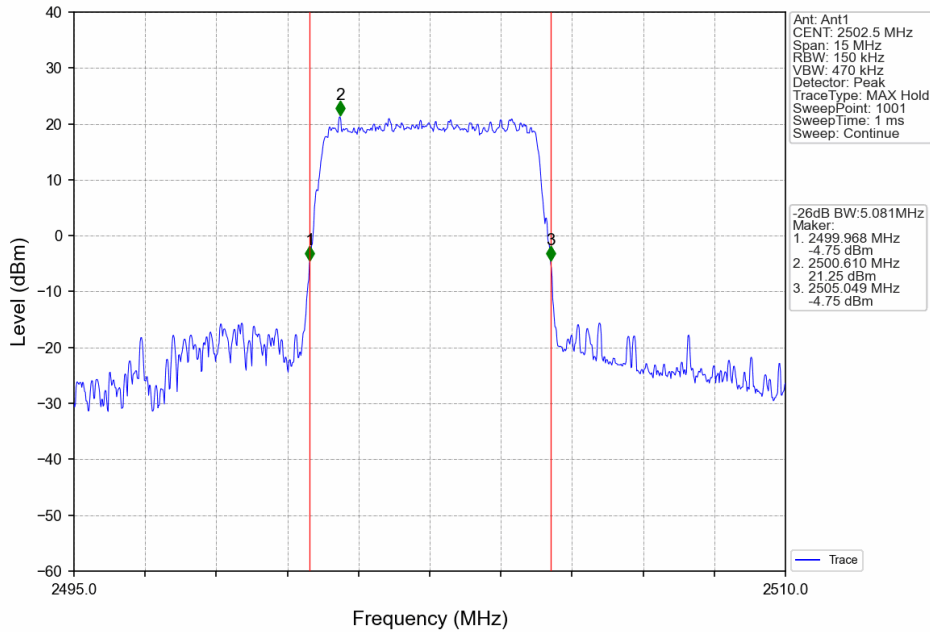


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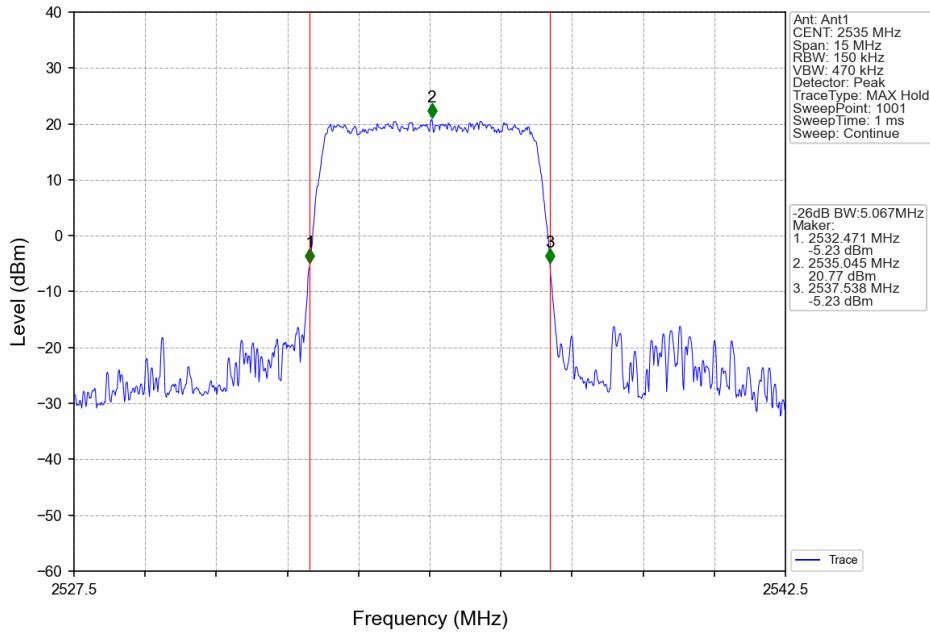


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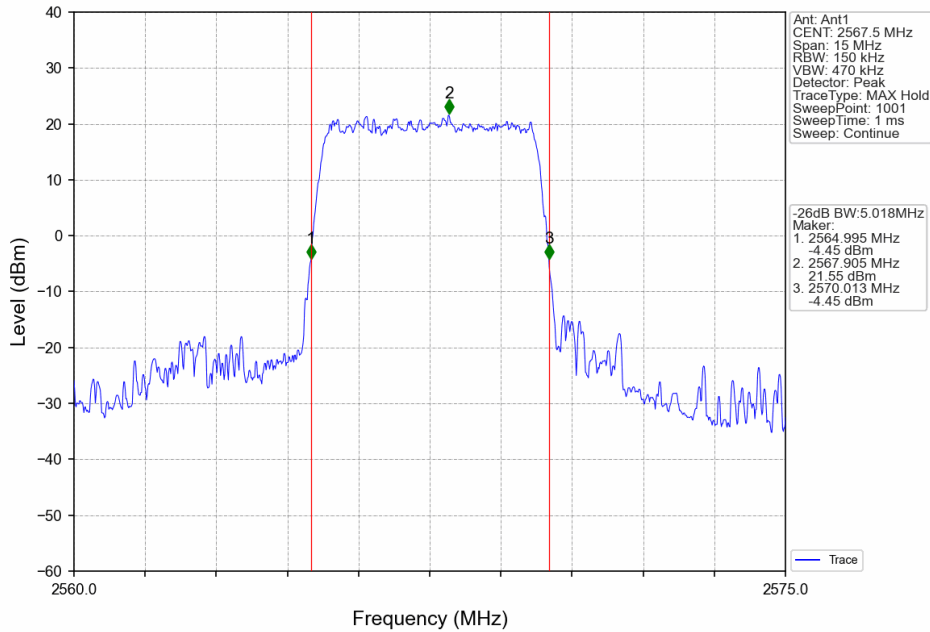


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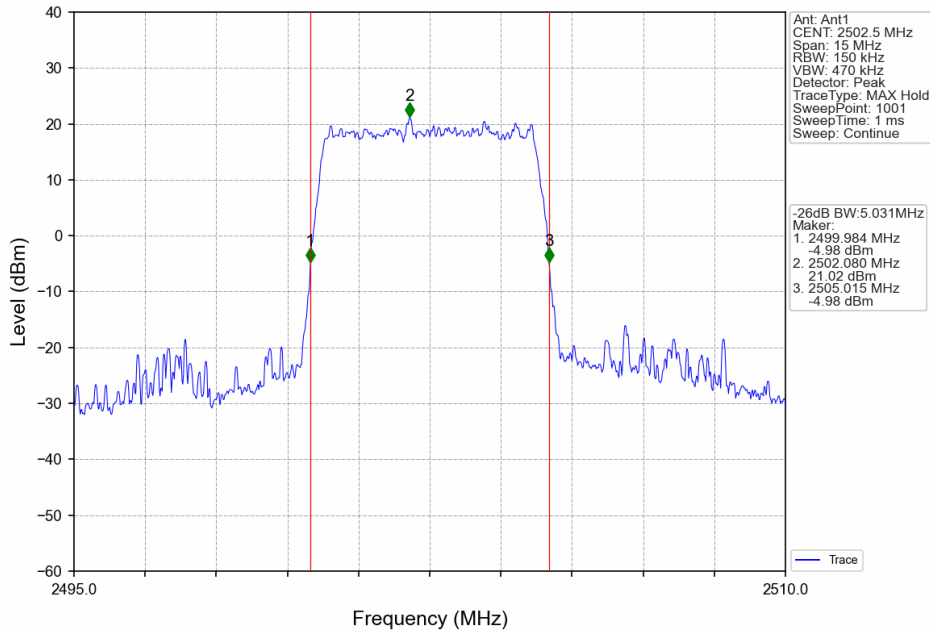


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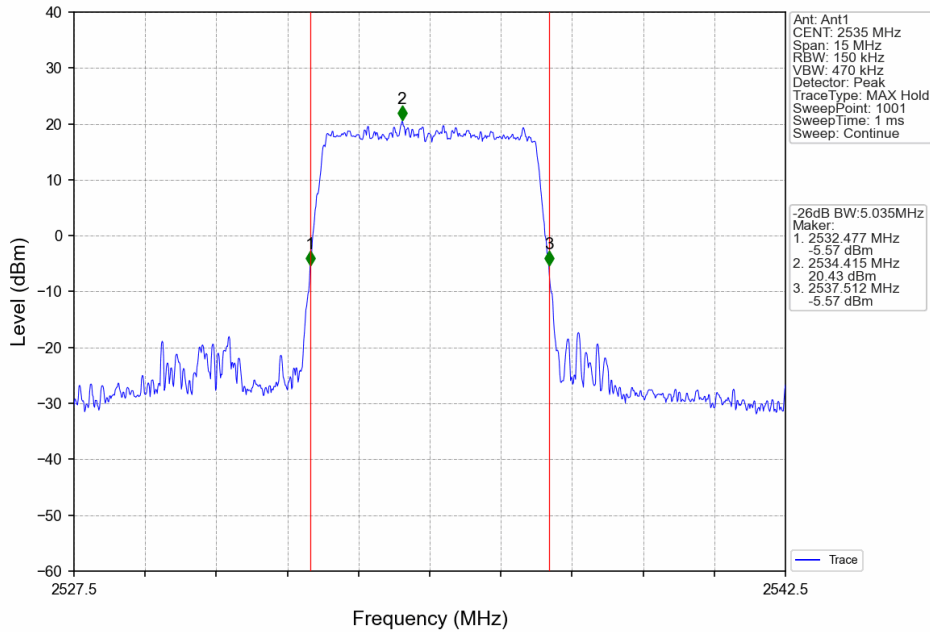


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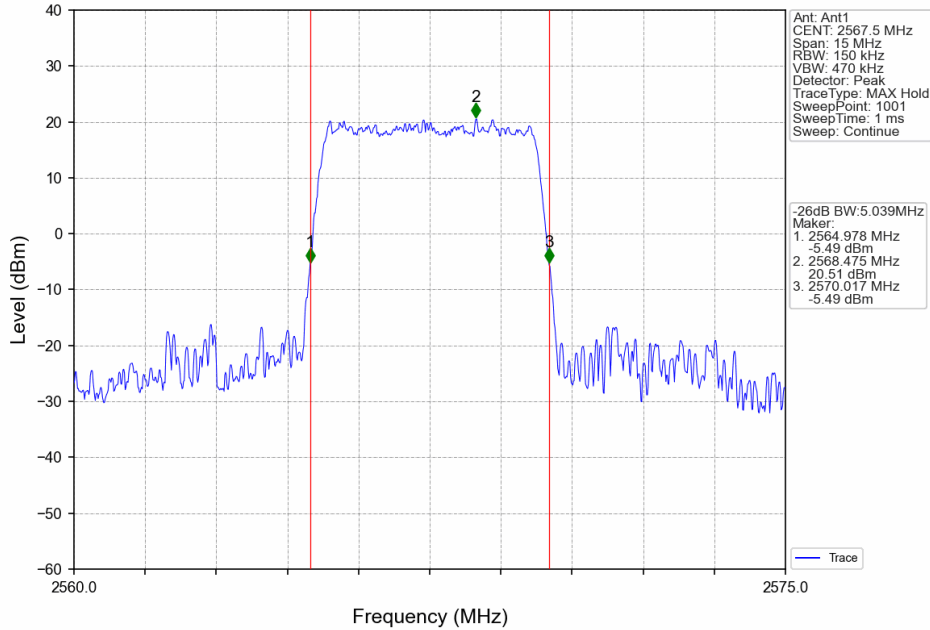


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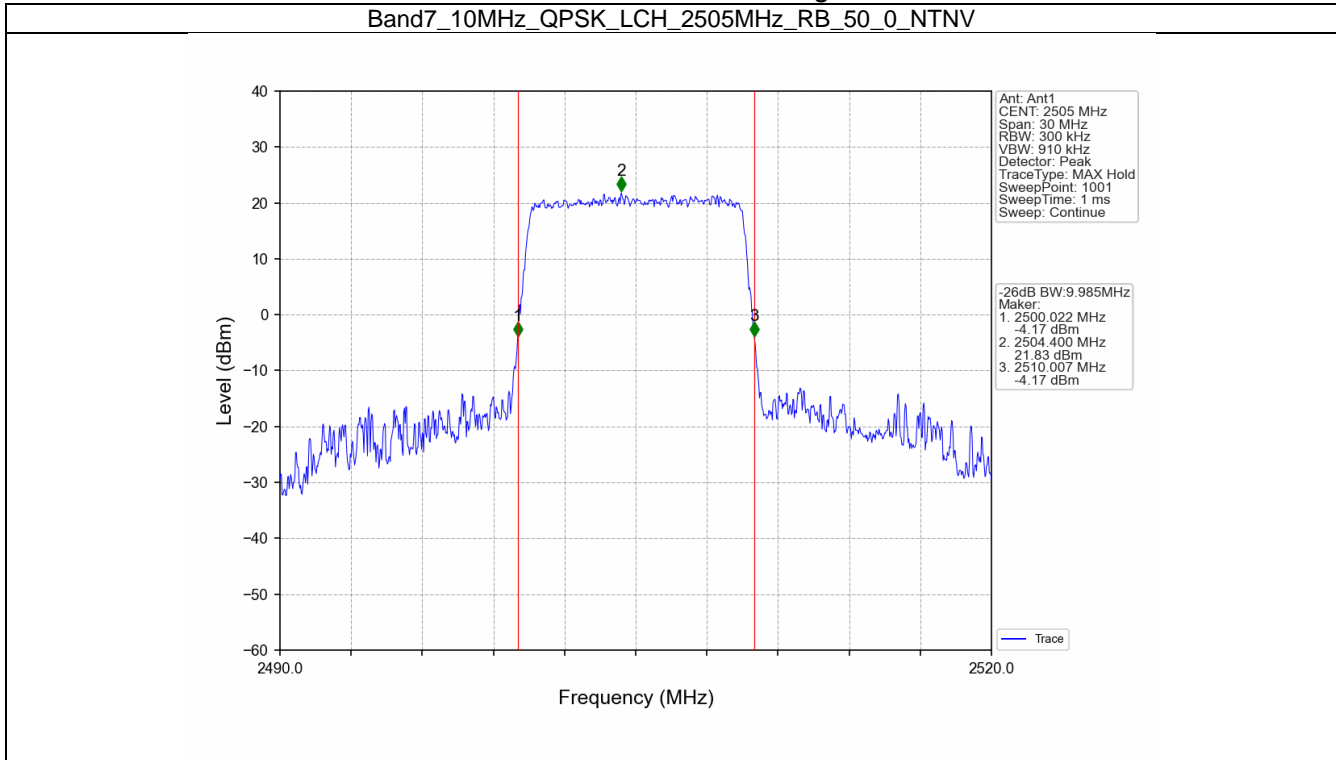


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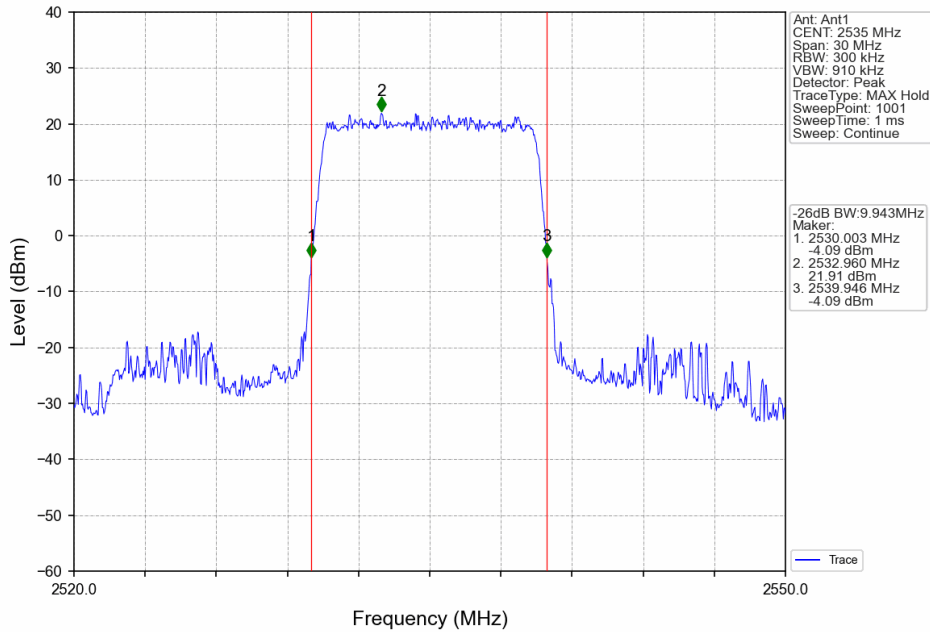


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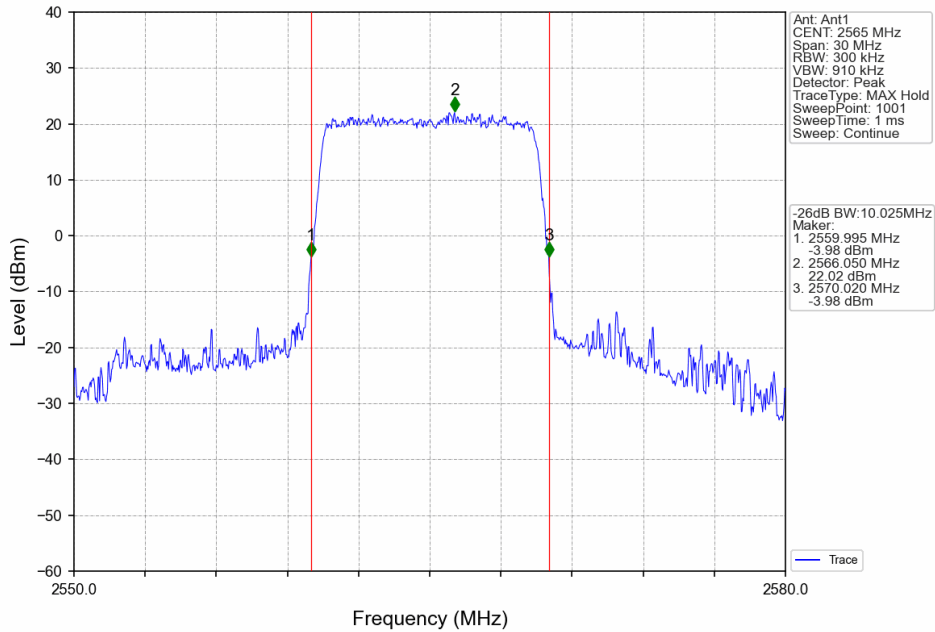


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Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV

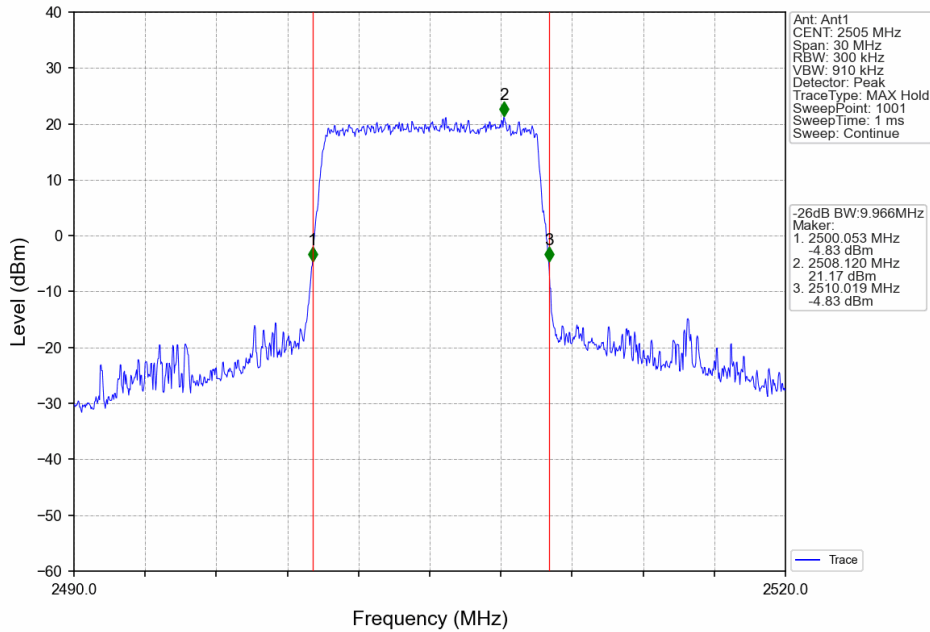


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Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV

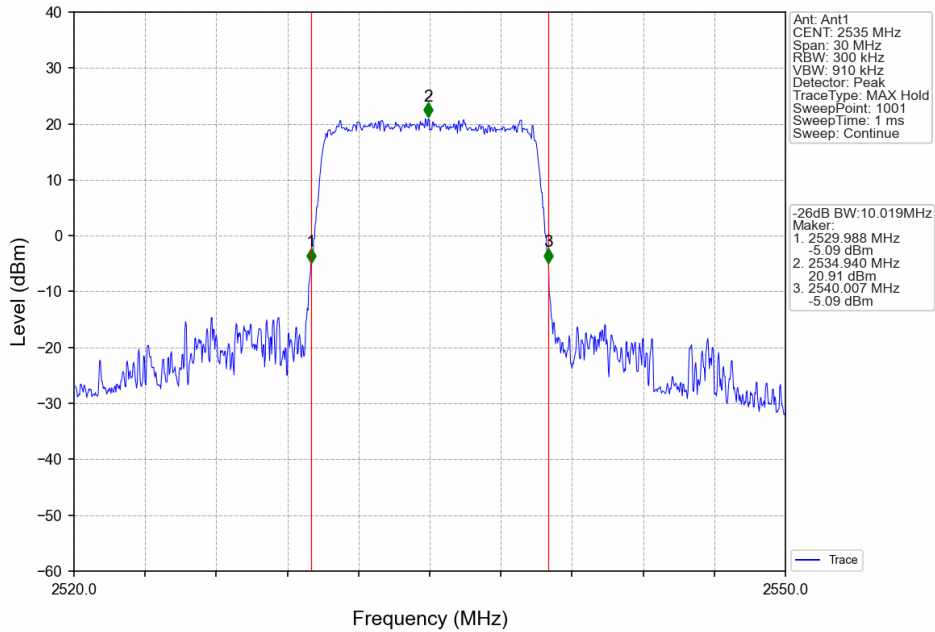


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Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



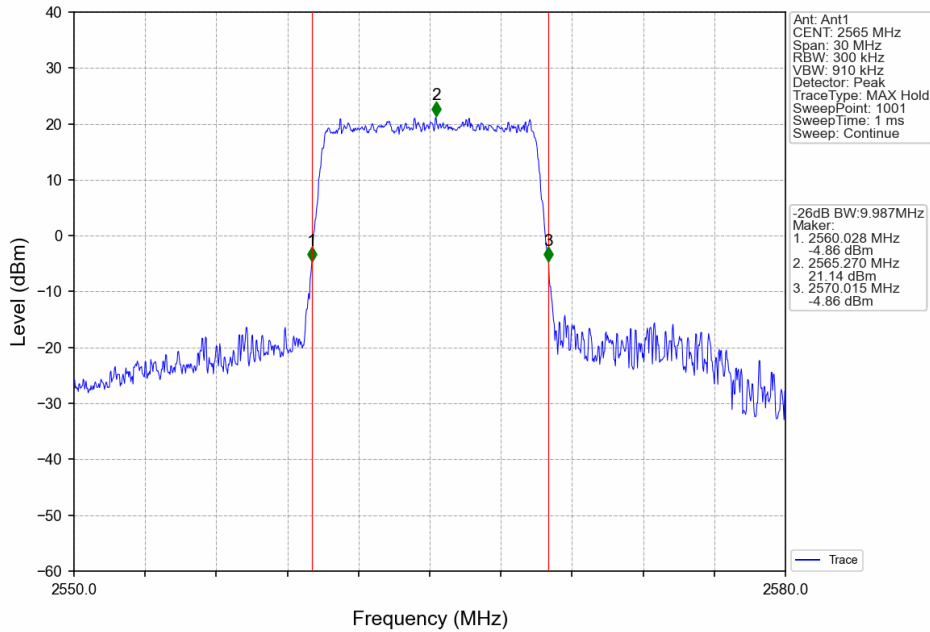
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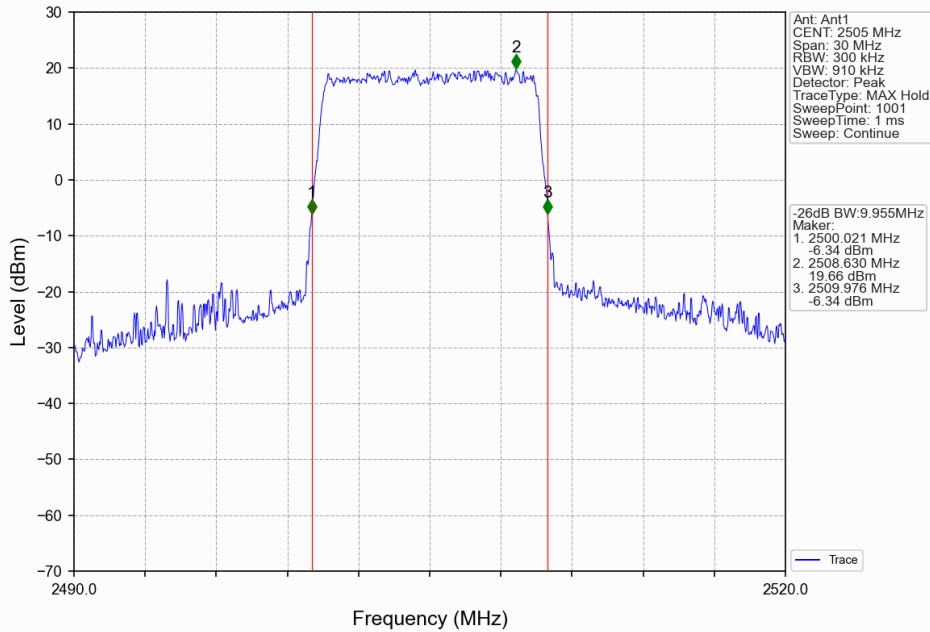


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Band7_10MHz_64QAM_LCH_2505MHz_RB_50_0_NTNV

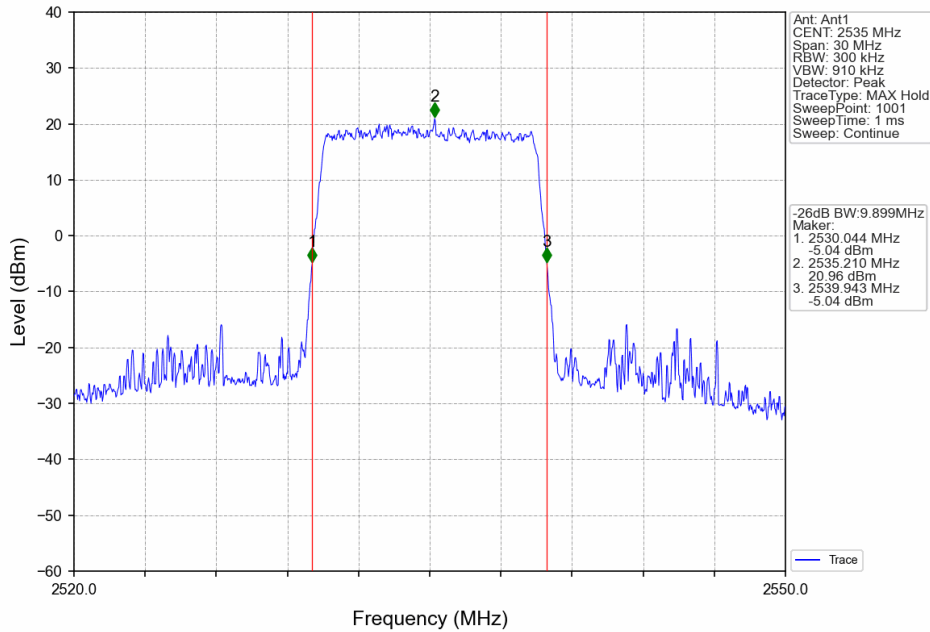


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Band7_10MHz_64QAM_MCH_2535MHz_RB_50_0_NTNV

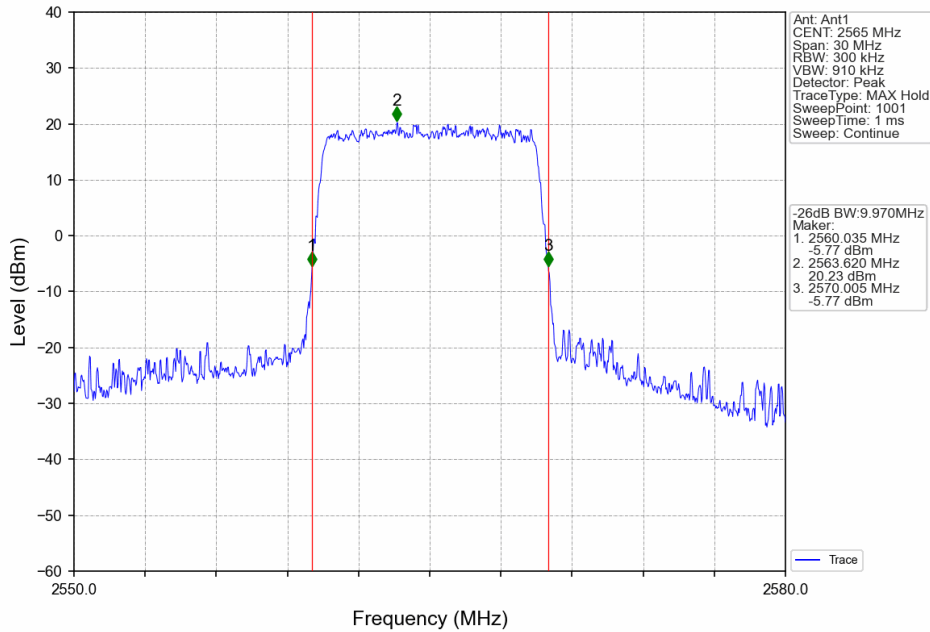


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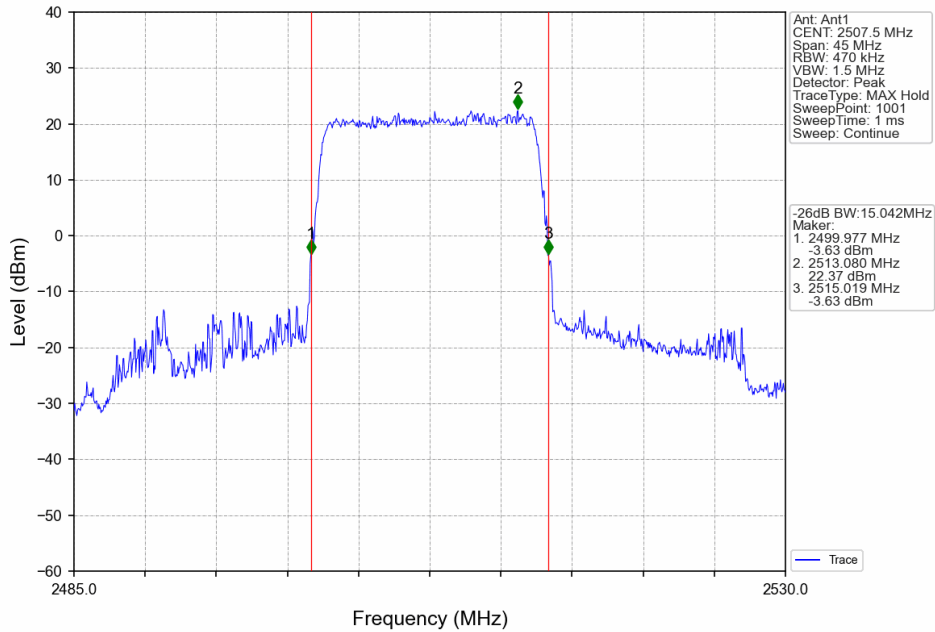


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Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV

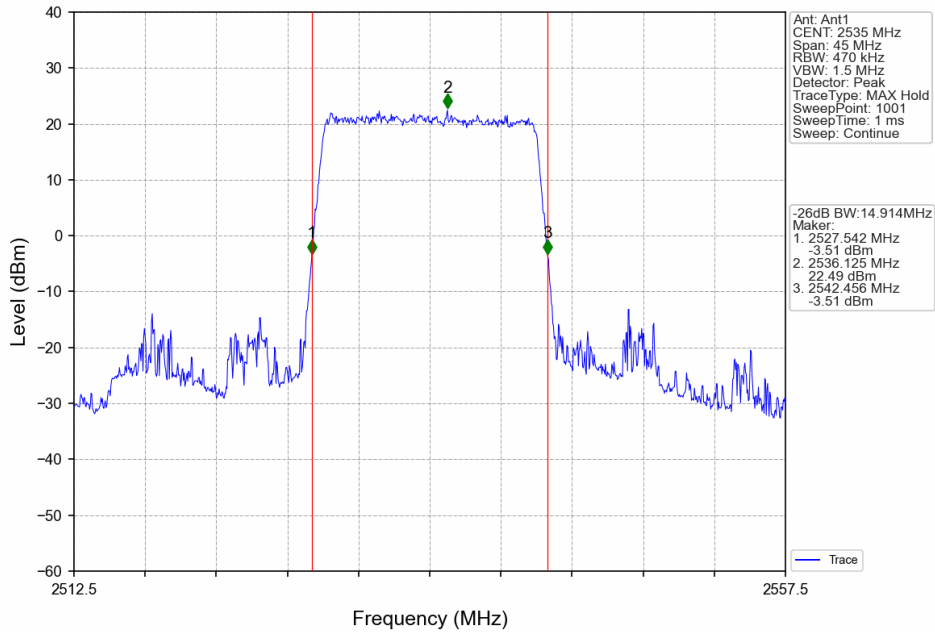


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Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV

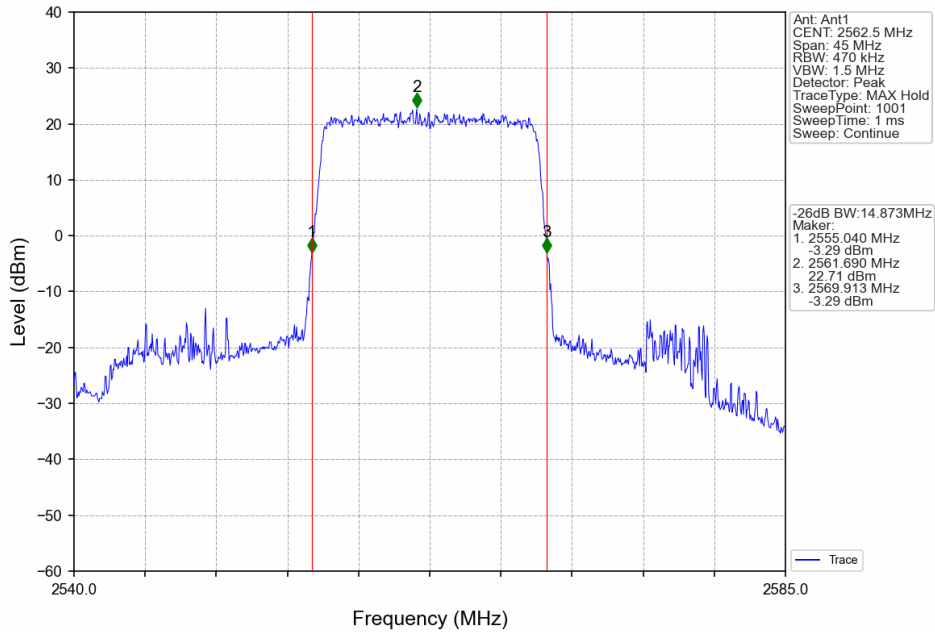


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Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV

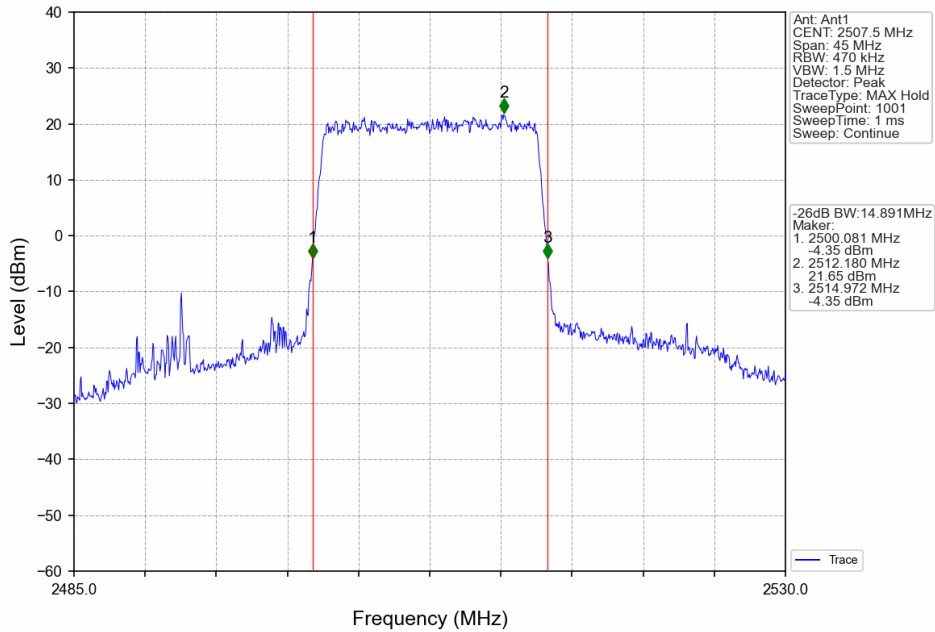


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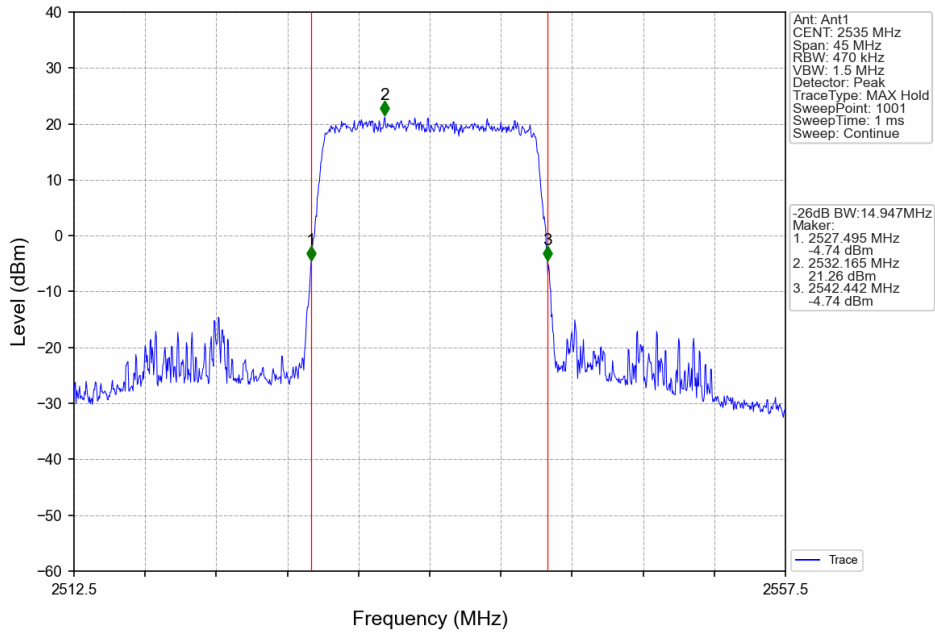


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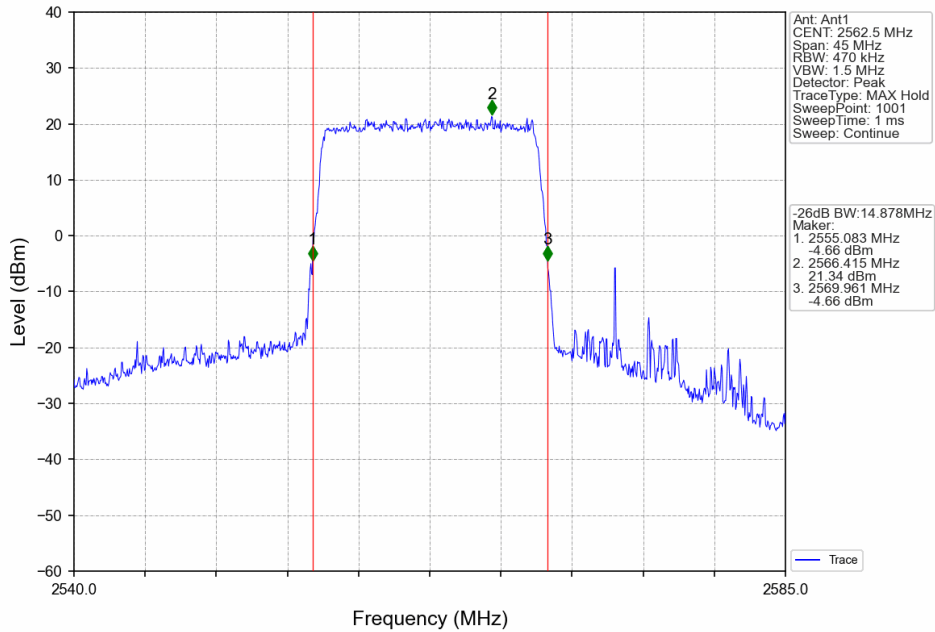


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Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV

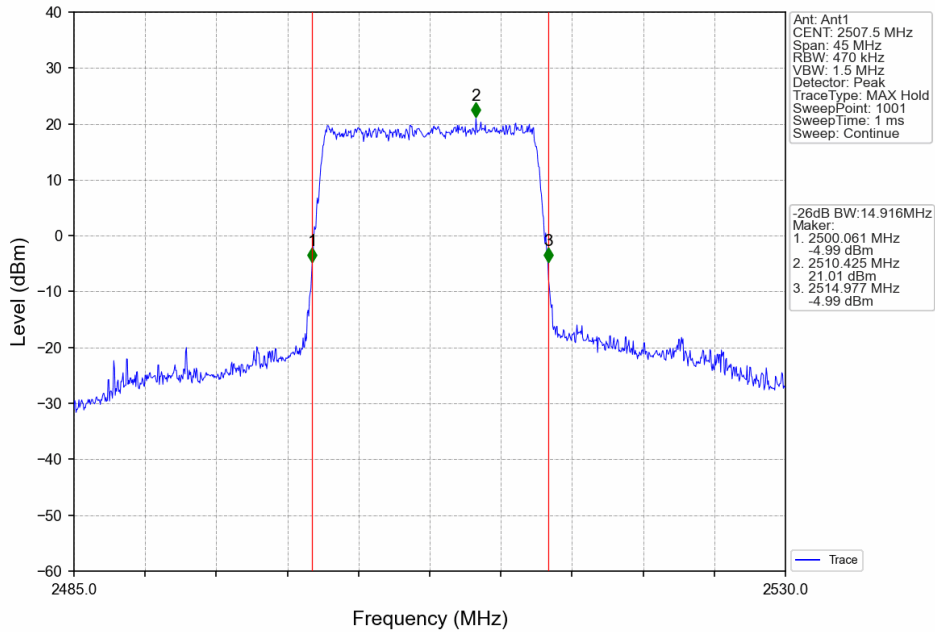


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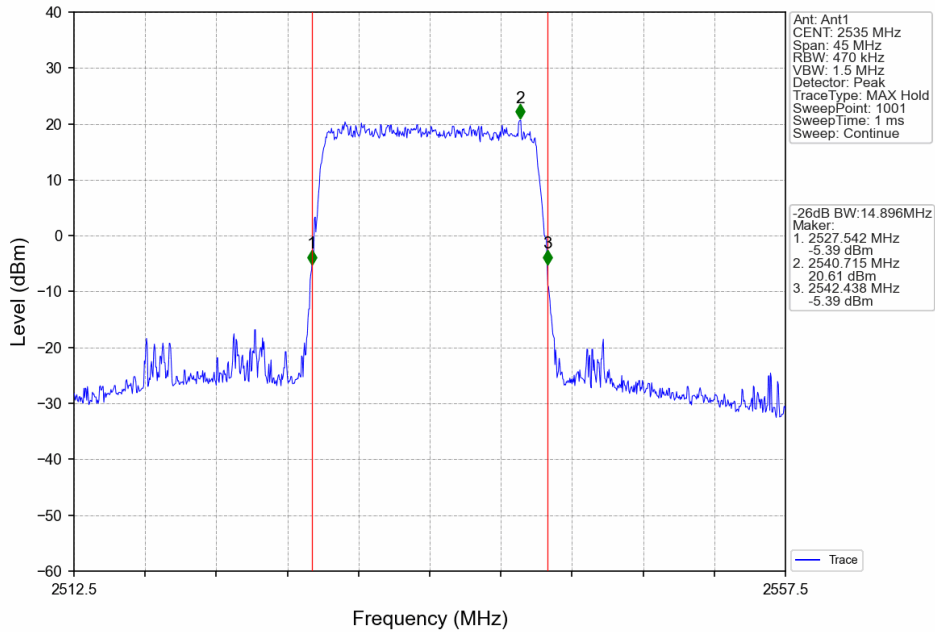


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Band7_15MHz_64QAM_MCH_2535MHz_RB_75_0_NTNV

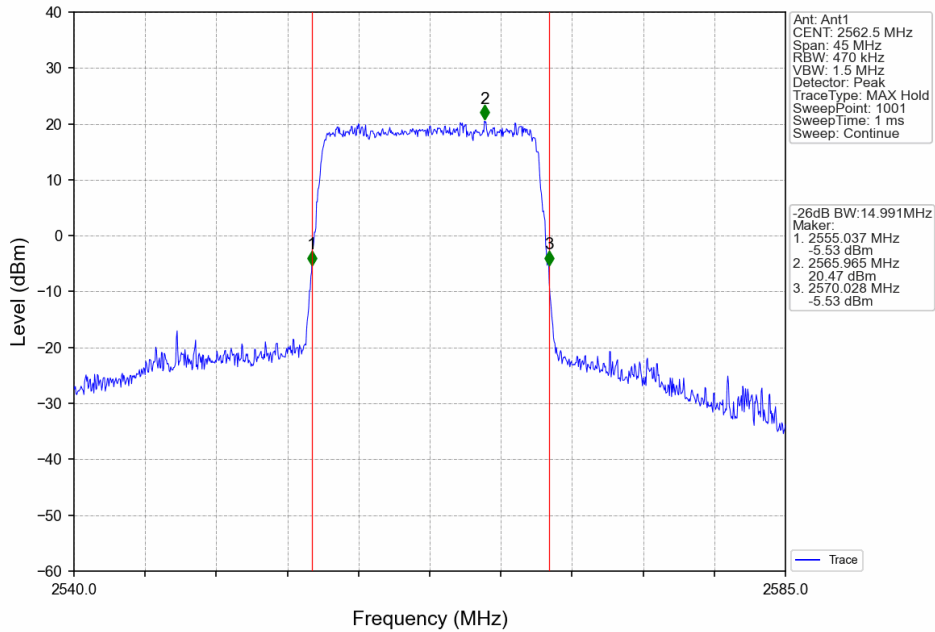


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Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV

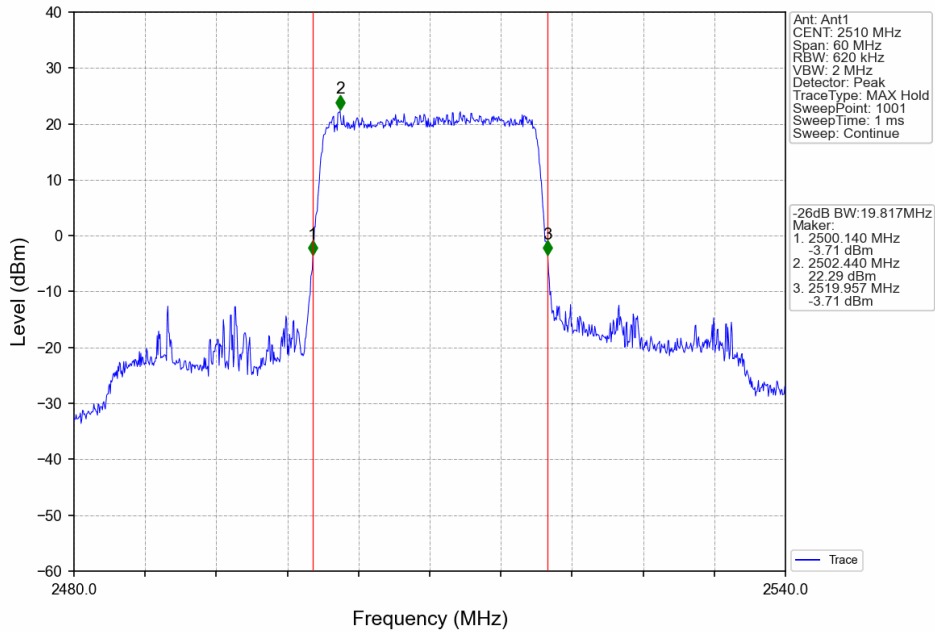


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Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV

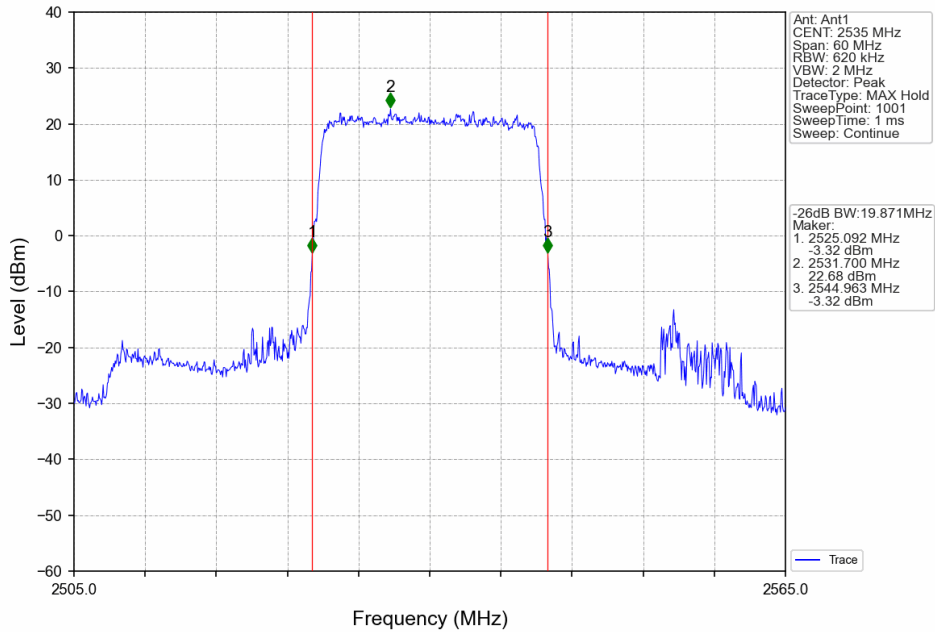


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Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV

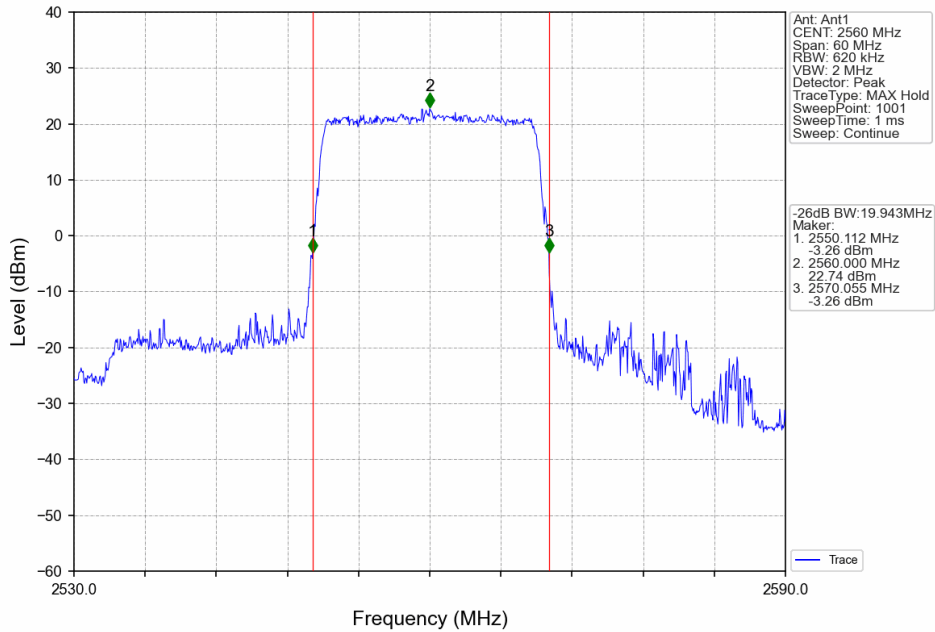


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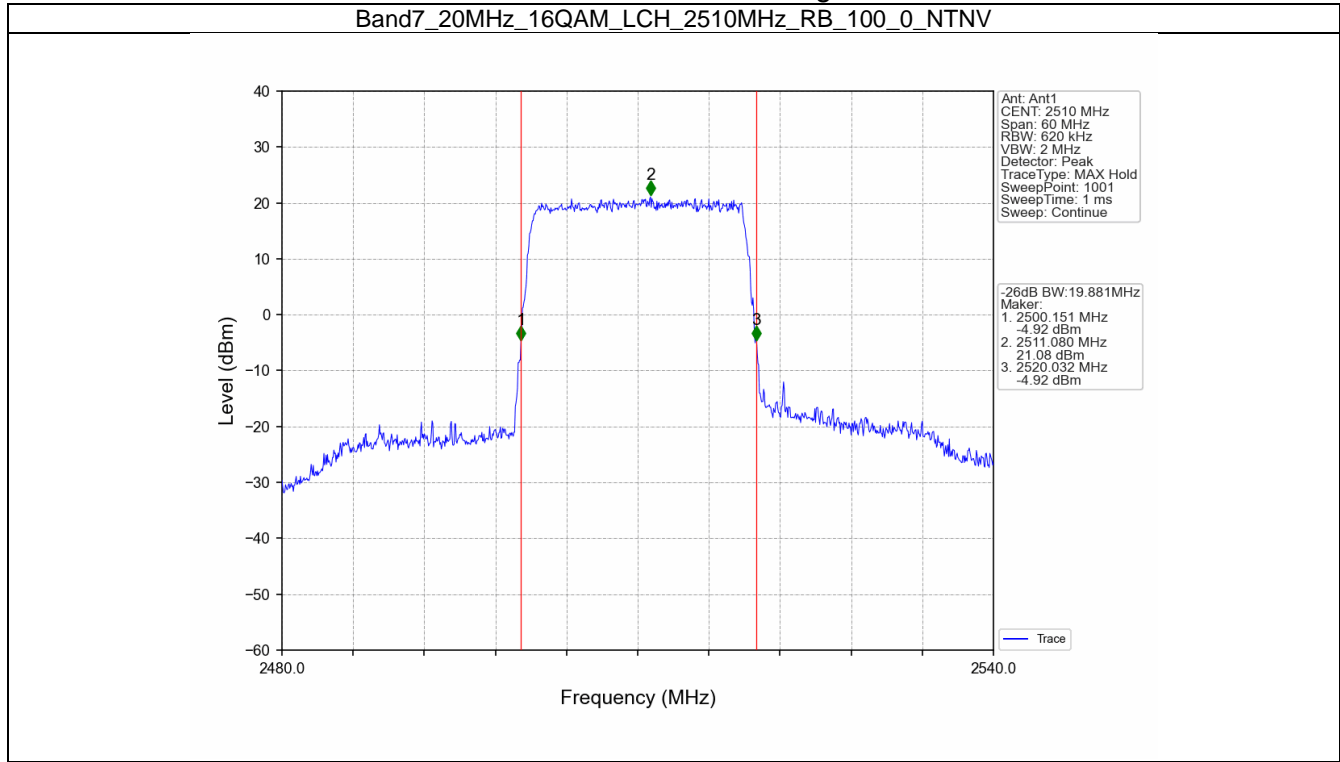
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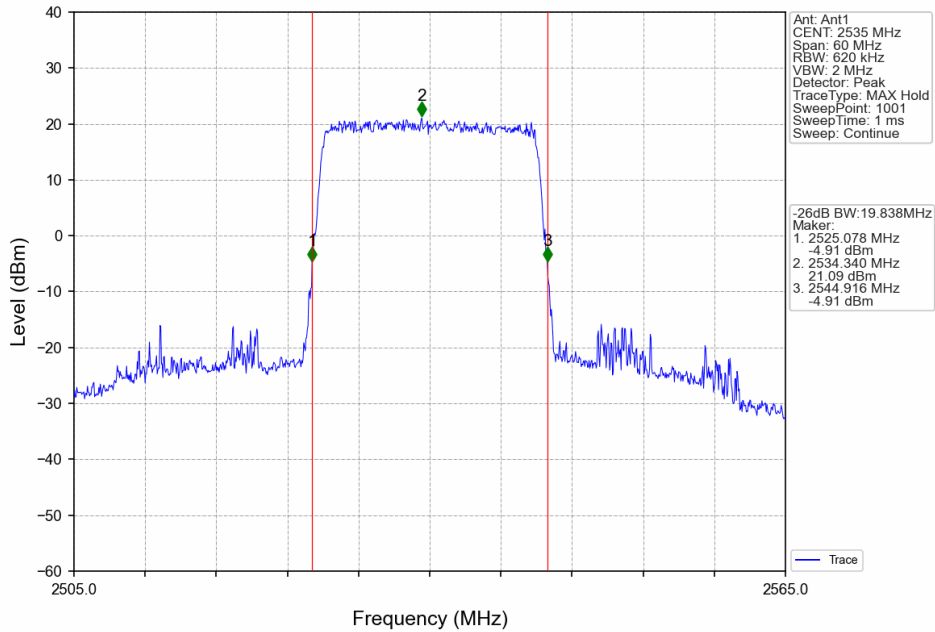


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Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

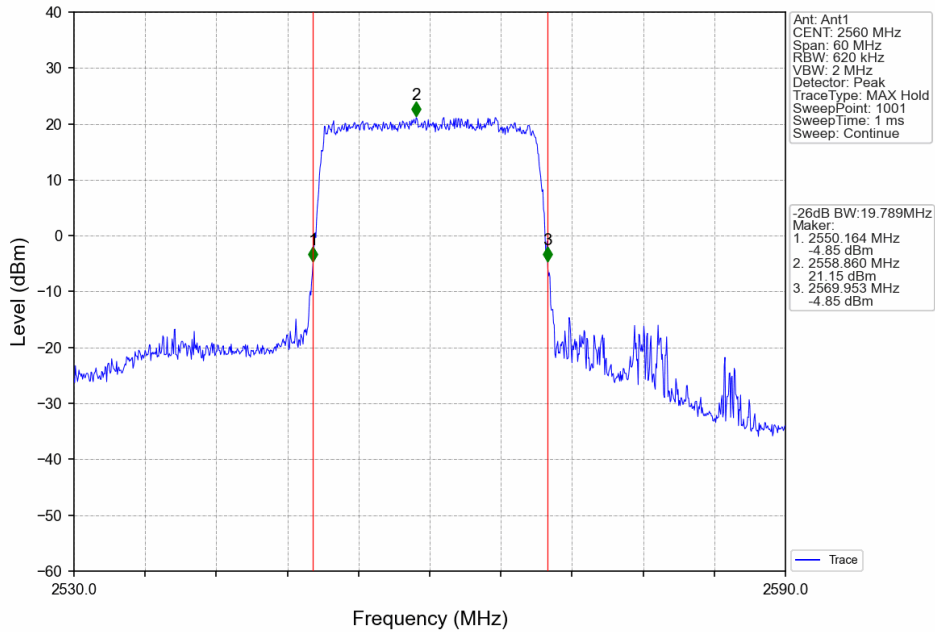


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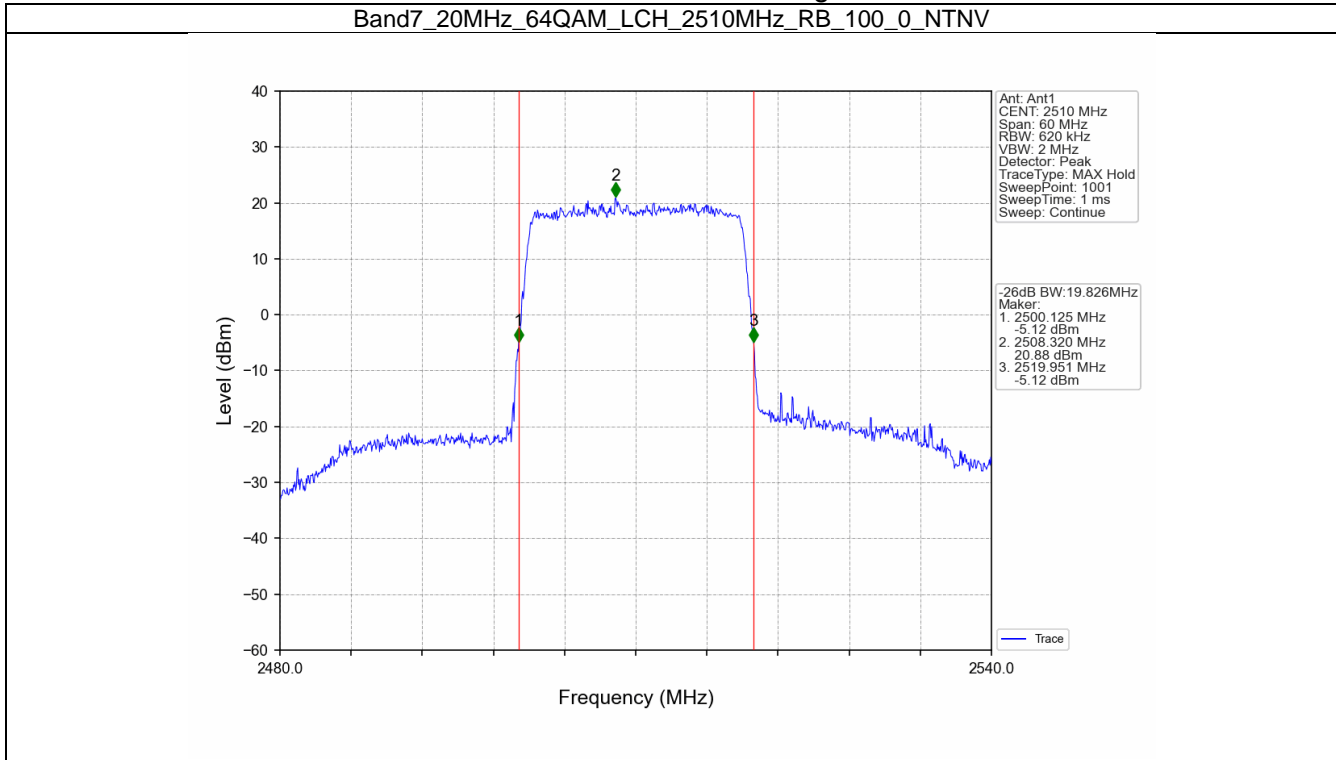
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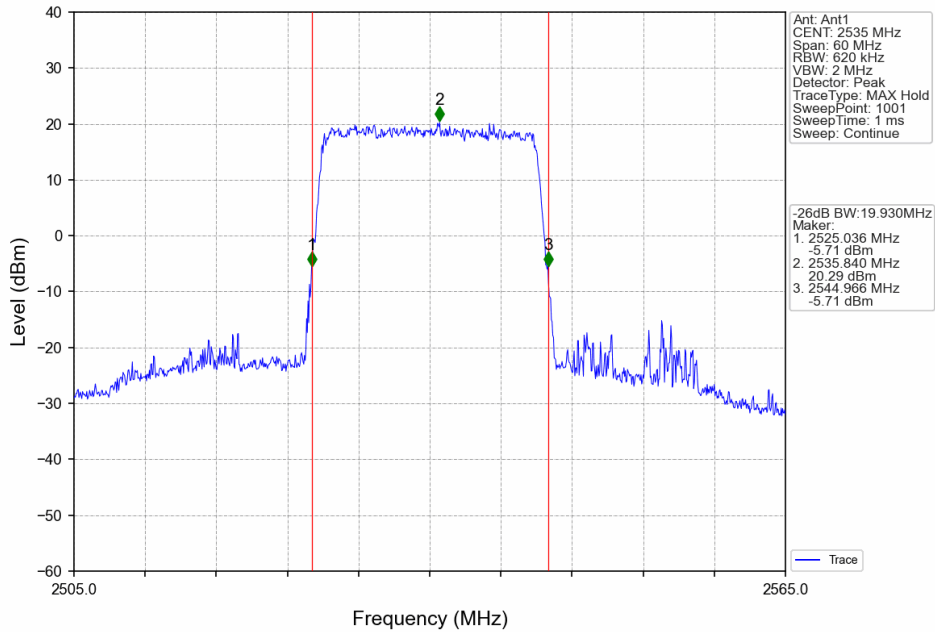


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Band7_20MHz_64QAM_MCH_2535MHz_RB_100_0_NTNV

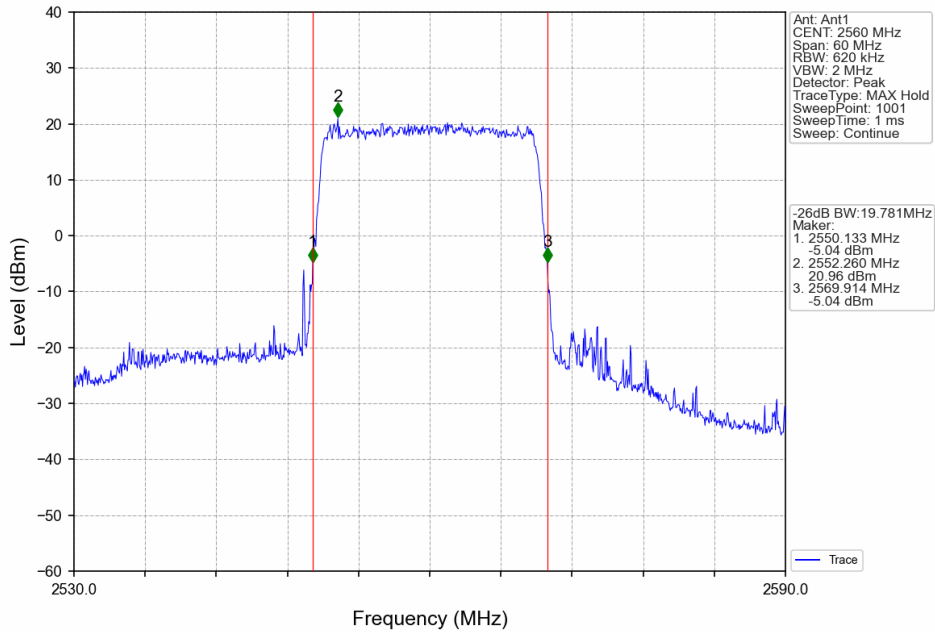


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