



Report No.: SEWA2310000127RG01
Rev.: 01
Page: 1 of 296

Appendix B.17

LTE Band 41



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1. Frequency Stability

1.1 B41_5MHz

1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.8	-19.768	-0.0079	-2.5 to 2.5	Pass
					4.0	-19.547	-0.0078	-2.5 to 2.5	Pass
					4.2	-18.930	-0.0076	-2.5 to 2.5	Pass
				-30	4.0	-16.599	-0.0066	-2.5 to 2.5	Pass
					4.0	-16.141	-0.0065	-2.5 to 2.5	Pass
				-20	4.0	-12.634	-0.0051	-2.5 to 2.5	Pass
					4.0	-17.182	-0.0069	-2.5 to 2.5	Pass
				10	4.0	-7.833	-0.0031	-2.5 to 2.5	Pass
					4.0	-6.021	-0.0024	-2.5 to 2.5	Pass
				40	4.0	-14.440	-0.0058	-2.5 to 2.5	Pass
	4.0	-5.213	-0.0021		-2.5 to 2.5	Pass			
	2593	25	0	20	3.8	-14.047	-0.0054	-2.5 to 2.5	Pass
					4.0	-15.394	-0.0059	-2.5 to 2.5	Pass
					4.2	-14.417	-0.0056	-2.5 to 2.5	Pass
				-30	4.0	-4.488	-0.0017	-2.5 to 2.5	Pass
					4.0	-10.505	-0.0041	-2.5 to 2.5	Pass
				-20	4.0	-14.228	-0.0055	-2.5 to 2.5	Pass
					4.0	-16.293	-0.0063	-2.5 to 2.5	Pass
				10	4.0	-17.898	-0.0069	-2.5 to 2.5	Pass
					4.0	-13.530	-0.0052	-2.5 to 2.5	Pass
				40	4.0	-12.264	-0.0047	-2.5 to 2.5	Pass
	4.0	-13.535	-0.0052		-2.5 to 2.5	Pass			
	2687.5	25	0	20	3.8	-20.656	-0.0077	-2.5 to 2.5	Pass
					4.0	-29.889	-0.0111	-2.5 to 2.5	Pass
					4.2	-28.620	-0.0106	-2.5 to 2.5	Pass
				-30	4.0	-24.105	-0.0090	-2.5 to 2.5	Pass
					4.0	-17.818	-0.0066	-2.5 to 2.5	Pass
				-20	4.0	-16.584	-0.0062	-2.5 to 2.5	Pass
					4.0	-24.987	-0.0093	-2.5 to 2.5	Pass
				10	4.0	-25.322	-0.0094	-2.5 to 2.5	Pass
4.0					-23.792	-0.0089	-2.5 to 2.5	Pass	
40				4.0	-23.474	-0.0087	-2.5 to 2.5	Pass	
	4.0	-19.956	-0.0074	-2.5 to 2.5	Pass				
16QAM	2498.5	25	0	20	3.8	-13.523	-0.0054	-2.5 to 2.5	Pass
					4.0	-16.876	-0.0068	-2.5 to 2.5	Pass
					4.2	-14.819	-0.0059	-2.5 to 2.5	Pass
				-30	4.0	-8.029	-0.0032	-2.5 to 2.5	Pass
					4.0	-8.625	-0.0035	-2.5 to 2.5	Pass
				-20	4.0	-8.539	-0.0034	-2.5 to 2.5	Pass
					4.0	-17.116	-0.0069	-2.5 to 2.5	Pass



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 3 of 296

64QAM	2593	25	0	10	4.0	-16.536	-0.0066	-2.5 to 2.5	Pass
				30	4.0	-13.538	-0.0054	-2.5 to 2.5	Pass
				40	4.0	-8.975	-0.0036	-2.5 to 2.5	Pass
				50	4.0	-11.442	-0.0046	-2.5 to 2.5	Pass
				20	3.8	-20.325	-0.0078	-2.5 to 2.5	Pass
					4.0	-5.579	-0.0022	-2.5 to 2.5	Pass
					4.2	-15.589	-0.0060	-2.5 to 2.5	Pass
				-30	4.0	-11.741	-0.0045	-2.5 to 2.5	Pass
				-20	4.0	-19.234	-0.0074	-2.5 to 2.5	Pass
				-10	4.0	-14.036	-0.0054	-2.5 to 2.5	Pass
	0	4.0	-17.684	-0.0068	-2.5 to 2.5	Pass			
	2687.5	25	0	10	4.0	-15.122	-0.0058	-2.5 to 2.5	Pass
				30	4.0	-11.344	-0.0044	-2.5 to 2.5	Pass
				40	4.0	-7.128	-0.0027	-2.5 to 2.5	Pass
				50	4.0	-23.520	-0.0091	-2.5 to 2.5	Pass
				20	3.8	-24.936	-0.0093	-2.5 to 2.5	Pass
					4.0	-27.480	-0.0102	-2.5 to 2.5	Pass
					4.2	-26.745	-0.0100	-2.5 to 2.5	Pass
				-30	4.0	-23.002	-0.0086	-2.5 to 2.5	Pass
				-20	4.0	-32.213	-0.0120	-2.5 to 2.5	Pass
-10				4.0	-21.230	-0.0079	-2.5 to 2.5	Pass	
0	4.0	-25.988	-0.0097	-2.5 to 2.5	Pass				
10	4.0	-31.679	-0.0118	-2.5 to 2.5	Pass				
30	4.0	-28.427	-0.0106	-2.5 to 2.5	Pass				
40	4.0	-21.166	-0.0079	-2.5 to 2.5	Pass				
50	4.0	-31.296	-0.0116	-2.5 to 2.5	Pass				
2498.5	25	0	20	3.8	-9.942	-0.0040	-2.5 to 2.5	Pass	
				4.0	-9.417	-0.0038	-2.5 to 2.5	Pass	
				4.2	-15.317	-0.0061	-2.5 to 2.5	Pass	
			-30	4.0	-5.627	-0.0023	-2.5 to 2.5	Pass	
			-20	4.0	-12.796	-0.0051	-2.5 to 2.5	Pass	
			-10	4.0	-8.983	-0.0036	-2.5 to 2.5	Pass	
			0	4.0	-10.997	-0.0044	-2.5 to 2.5	Pass	
			10	4.0	-4.492	-0.0018	-2.5 to 2.5	Pass	
			30	4.0	-3.562	-0.0014	-2.5 to 2.5	Pass	
			40	4.0	-18.828	-0.0075	-2.5 to 2.5	Pass	
	50	4.0	-12.313	-0.0049	-2.5 to 2.5	Pass			
	2593	25	0	20	3.8	-18.056	-0.0070	-2.5 to 2.5	Pass
					4.0	-8.600	-0.0033	-2.5 to 2.5	Pass
					4.2	-12.974	-0.0050	-2.5 to 2.5	Pass
				-30	4.0	-22.388	-0.0086	-2.5 to 2.5	Pass
				-20	4.0	-17.559	-0.0068	-2.5 to 2.5	Pass
				-10	4.0	-18.778	-0.0072	-2.5 to 2.5	Pass
				0	4.0	-7.242	-0.0028	-2.5 to 2.5	Pass
				10	4.0	-4.097	-0.0016	-2.5 to 2.5	Pass
				30	4.0	-18.295	-0.0071	-2.5 to 2.5	Pass
40				4.0	-12.005	-0.0046	-2.5 to 2.5	Pass	
50	4.0	-7.557	-0.0029	-2.5 to 2.5	Pass				
2687.5	25	0	20	3.8	-14.975	-0.0056	-2.5 to 2.5	Pass	
				4.0	-31.277	-0.0116	-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 4 of 296

				4.2	-26.432	-0.0098	-2.5 to 2.5	Pass	
				-30	4.0	-30.098	-0.0112	-2.5 to 2.5	Pass
				-20	4.0	-28.075	-0.0104	-2.5 to 2.5	Pass
				-10	4.0	-23.641	-0.0088	-2.5 to 2.5	Pass
				0	4.0	-29.762	-0.0111	-2.5 to 2.5	Pass
				10	4.0	-19.458	-0.0072	-2.5 to 2.5	Pass
				30	4.0	-23.064	-0.0086	-2.5 to 2.5	Pass
				40	4.0	-33.366	-0.0124	-2.5 to 2.5	Pass
				50	4.0	-19.815	-0.0074	-2.5 to 2.5	Pass



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Member of the SGS Group (SGS SA)

1.2 B41_10MHz

1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2501	50	0	20	3.8	-15.248	-0.0061	-2.5 to 2.5	Pass	
					4.0	-21.130	-0.0084	-2.5 to 2.5	Pass	
					4.2	-16.902	-0.0068	-2.5 to 2.5	Pass	
				-30	4.0	-7.682	-0.0031	-2.5 to 2.5	Pass	
					-20	4.0	-4.443	-0.0018	-2.5 to 2.5	Pass
						4.0	-14.321	-0.0057	-2.5 to 2.5	Pass
				0	4.0	-14.081	-0.0056	-2.5 to 2.5	Pass	
					4.0	-14.981	-0.0060	-2.5 to 2.5	Pass	
				30	4.0	-8.314	-0.0033	-2.5 to 2.5	Pass	
	4.0	-4.589	-0.0018		-2.5 to 2.5	Pass				
	2593	50	0	20	3.8	-16.581	-0.0064	-2.5 to 2.5	Pass	
					4.0	-9.255	-0.0036	-2.5 to 2.5	Pass	
					4.2	-13.628	-0.0053	-2.5 to 2.5	Pass	
				-30	4.0	-18.026	-0.0070	-2.5 to 2.5	Pass	
					-20	4.0	-7.329	-0.0028	-2.5 to 2.5	Pass
						4.0	-7.556	-0.0029	-2.5 to 2.5	Pass
				0	4.0	-15.547	-0.0060	-2.5 to 2.5	Pass	
					4.0	-20.277	-0.0078	-2.5 to 2.5	Pass	
				30	4.0	-11.199	-0.0043	-2.5 to 2.5	Pass	
	4.0	-15.333	-0.0059		-2.5 to 2.5	Pass				
	2685	50	0	20	3.8	-9.570	-0.0036	-2.5 to 2.5	Pass	
					4.0	-13.108	-0.0049	-2.5 to 2.5	Pass	
					4.2	-20.402	-0.0076	-2.5 to 2.5	Pass	
				-30	4.0	-16.691	-0.0062	-2.5 to 2.5	Pass	
					-20	4.0	-11.515	-0.0043	-2.5 to 2.5	Pass
						4.0	-7.780	-0.0029	-2.5 to 2.5	Pass
				0	4.0	-15.252	-0.0057	-2.5 to 2.5	Pass	
4.0					-4.731	-0.0018	-2.5 to 2.5	Pass		
30				4.0	-16.647	-0.0062	-2.5 to 2.5	Pass		
	4.0	-10.914	-0.0041	-2.5 to 2.5	Pass					
16QAM	2501	50	0	20	3.8	-15.749	-0.0063	-2.5 to 2.5	Pass	
					4.0	-11.123	-0.0044	-2.5 to 2.5	Pass	
					4.2	-12.179	-0.0049	-2.5 to 2.5	Pass	
				-30	4.0	-11.541	-0.0046	-2.5 to 2.5	Pass	
					-20	4.0	-14.888	-0.0060	-2.5 to 2.5	Pass
						4.0	-5.646	-0.0023	-2.5 to 2.5	Pass
				0	4.0	-9.227	-0.0037	-2.5 to 2.5	Pass	
					4.0	-10.329	-0.0041	-2.5 to 2.5	Pass	
				30	4.0	-7.389	-0.0030	-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 6 of 296

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				50	4.0	-22.606	-0.0090	-2.5 to 2.5	Pass		
				20	3.8	-16.310	-0.0063	-2.5 to 2.5	Pass		
					4.0	-14.275	-0.0055	-2.5 to 2.5	Pass		
					4.2	-18.801	-0.0073	-2.5 to 2.5	Pass		
				-30	4.0	-15.008	-0.0058	-2.5 to 2.5	Pass		
				-20	4.0	-13.829	-0.0053	-2.5 to 2.5	Pass		
				-10	4.0	-9.748	-0.0038	-2.5 to 2.5	Pass		
				0	4.0	-17.399	-0.0067	-2.5 to 2.5	Pass		
				10	4.0	-11.861	-0.0046	-2.5 to 2.5	Pass		
				30	4.0	-19.389	-0.0075	-2.5 to 2.5	Pass		
				40	4.0	-22.715	-0.0088	-2.5 to 2.5	Pass		
				50	4.0	-14.724	-0.0057	-2.5 to 2.5	Pass		
				2685	50	0	20	3.8	-19.779	-0.0074	-2.5 to 2.5
	4.0	-17.580	-0.0065					-2.5 to 2.5	Pass		
	4.2	-15.330	-0.0057					-2.5 to 2.5	Pass		
	-30	4.0	-9.606				-0.0036	-2.5 to 2.5	Pass		
	-20	4.0	-21.033				-0.0078	-2.5 to 2.5	Pass		
	-10	4.0	-5.460				-0.0020	-2.5 to 2.5	Pass		
	0	4.0	-6.871				-0.0026	-2.5 to 2.5	Pass		
	10	4.0	-18.125				-0.0068	-2.5 to 2.5	Pass		
	30	4.0	-13.204				-0.0049	-2.5 to 2.5	Pass		
	40	4.0	-11.434				-0.0043	-2.5 to 2.5	Pass		
	50	4.0	-11.292				-0.0042	-2.5 to 2.5	Pass		
	2501	50	0				20	3.8	-13.159	-0.0053	-2.5 to 2.5
				4.0	-10.395	-0.0042		-2.5 to 2.5	Pass		
4.2				-5.324	-0.0021	-2.5 to 2.5		Pass			
-30				4.0	-20.635	-0.0083	-2.5 to 2.5	Pass			
-20				4.0	-17.348	-0.0069	-2.5 to 2.5	Pass			
-10				4.0	-6.836	-0.0027	-2.5 to 2.5	Pass			
0				4.0	-17.036	-0.0068	-2.5 to 2.5	Pass			
10				4.0	-20.530	-0.0082	-2.5 to 2.5	Pass			
30				4.0	-19.277	-0.0077	-2.5 to 2.5	Pass			
40				4.0	-13.448	-0.0054	-2.5 to 2.5	Pass			
50				4.0	-11.409	-0.0046	-2.5 to 2.5	Pass			
2593				50	0	20	3.8	-18.784	-0.0072	-2.5 to 2.5	Pass
							4.0	-11.528	-0.0044	-2.5 to 2.5	Pass
							4.2	-10.277	-0.0040	-2.5 to 2.5	Pass
						-30	4.0	-11.957	-0.0046	-2.5 to 2.5	Pass
						-20	4.0	-12.859	-0.0050	-2.5 to 2.5	Pass
						-10	4.0	-16.621	-0.0064	-2.5 to 2.5	Pass
						0	4.0	-6.684	-0.0026	-2.5 to 2.5	Pass
						10	4.0	-14.460	-0.0056	-2.5 to 2.5	Pass
						30	4.0	-8.157	-0.0031	-2.5 to 2.5	Pass
	40	4.0	-16.867			-0.0065	-2.5 to 2.5	Pass			
	50	4.0	-19.806			-0.0076	-2.5 to 2.5	Pass			
	2685	50	0			20	3.8	-21.749	-0.0081	-2.5 to 2.5	Pass
4.0				-12.052	-0.0045		-2.5 to 2.5	Pass			
4.2				-21.248	-0.0079		-2.5 to 2.5	Pass			
-30				4.0	-13.514	-0.0050	-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 7 of 296

				-20	4.0	-15.805	-0.0059	-2.5 to 2.5	Pass
				-10	4.0	-17.721	-0.0066	-2.5 to 2.5	Pass
				0	4.0	-16.743	-0.0062	-2.5 to 2.5	Pass
				10	4.0	-20.583	-0.0077	-2.5 to 2.5	Pass
				30	4.0	-18.215	-0.0068	-2.5 to 2.5	Pass
				40	4.0	-15.945	-0.0059	-2.5 to 2.5	Pass
				50	4.0	-17.956	-0.0067	-2.5 to 2.5	Pass



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1.3 B41_15MHz

1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2503.5	75	0	20	3.8	-13.993	-0.0056	-2.5 to 2.5	Pass	
					4.0	-16.418	-0.0066	-2.5 to 2.5	Pass	
					4.2	-5.801	-0.0023	-2.5 to 2.5	Pass	
				-30	4.0	-20.117	-0.0080	-2.5 to 2.5	Pass	
					-20	4.0	-12.498	-0.0050	-2.5 to 2.5	Pass
						4.0	-11.308	-0.0045	-2.5 to 2.5	Pass
				0	4.0	-7.926	-0.0032	-2.5 to 2.5	Pass	
					4.0	-18.846	-0.0075	-2.5 to 2.5	Pass	
				30	4.0	-16.434	-0.0066	-2.5 to 2.5	Pass	
					4.0	-7.688	-0.0031	-2.5 to 2.5	Pass	
				50	4.0	-13.539	-0.0054	-2.5 to 2.5	Pass	
					4.0	-13.539	-0.0054	-2.5 to 2.5	Pass	
	2593	75	0	20	3.8	-12.621	-0.0049	-2.5 to 2.5	Pass	
					4.0	-19.744	-0.0076	-2.5 to 2.5	Pass	
					4.2	-6.609	-0.0025	-2.5 to 2.5	Pass	
				-30	4.0	-18.050	-0.0070	-2.5 to 2.5	Pass	
					-20	4.0	-15.666	-0.0060	-2.5 to 2.5	Pass
						4.0	-14.278	-0.0055	-2.5 to 2.5	Pass
				0	4.0	-10.270	-0.0040	-2.5 to 2.5	Pass	
					4.0	-20.072	-0.0077	-2.5 to 2.5	Pass	
				30	4.0	-5.531	-0.0021	-2.5 to 2.5	Pass	
					4.0	-8.555	-0.0033	-2.5 to 2.5	Pass	
				40	4.0	-8.555	-0.0033	-2.5 to 2.5	Pass	
					4.0	-13.400	-0.0052	-2.5 to 2.5	Pass	
2682.5	75	0	20	3.8	-24.386	-0.0091	-2.5 to 2.5	Pass		
				4.0	-19.108	-0.0071	-2.5 to 2.5	Pass		
				4.2	-14.868	-0.0055	-2.5 to 2.5	Pass		
			-30	4.0	-14.048	-0.0052	-2.5 to 2.5	Pass		
				-20	4.0	-20.916	-0.0078	-2.5 to 2.5	Pass	
					4.0	-12.972	-0.0048	-2.5 to 2.5	Pass	
			0	4.0	-16.517	-0.0062	-2.5 to 2.5	Pass		
				4.0	-14.222	-0.0053	-2.5 to 2.5	Pass		
			30	4.0	-10.151	-0.0038	-2.5 to 2.5	Pass		
				4.0	-24.392	-0.0091	-2.5 to 2.5	Pass		
			40	4.0	-24.392	-0.0091	-2.5 to 2.5	Pass		
				4.0	-13.709	-0.0051	-2.5 to 2.5	Pass		
16QAM	2503.5	75	0	20	3.8	-16.041	-0.0064	-2.5 to 2.5	Pass	
					4.0	-10.085	-0.0040	-2.5 to 2.5	Pass	
					4.2	-9.826	-0.0039	-2.5 to 2.5	Pass	
				-30	4.0	-11.028	-0.0044	-2.5 to 2.5	Pass	
					-20	4.0	-18.281	-0.0073	-2.5 to 2.5	Pass
						4.0	-22.043	-0.0088	-2.5 to 2.5	Pass
				0	4.0	-17.716	-0.0071	-2.5 to 2.5	Pass	
					4.0	-20.330	-0.0081	-2.5 to 2.5	Pass	
				10	4.0	-20.330	-0.0081	-2.5 to 2.5	Pass	
					4.0	-10.786	-0.0043	-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 9 of 296

64QAM	2593	75	0	40	4.0	-20.602	-0.0082	-2.5 to 2.5	Pass		
				50	4.0	-19.129	-0.0076	-2.5 to 2.5	Pass		
				20	3.8	-22.435	-0.0087	-2.5 to 2.5	Pass		
					4.0	-21.024	-0.0081	-2.5 to 2.5	Pass		
					4.2	-11.842	-0.0046	-2.5 to 2.5	Pass		
				-30	4.0	-16.765	-0.0065	-2.5 to 2.5	Pass		
				-20	4.0	-10.789	-0.0042	-2.5 to 2.5	Pass		
				-10	4.0	-13.342	-0.0051	-2.5 to 2.5	Pass		
				0	4.0	-21.940	-0.0085	-2.5 to 2.5	Pass		
				10	4.0	-22.464	-0.0087	-2.5 to 2.5	Pass		
				30	4.0	-22.816	-0.0088	-2.5 to 2.5	Pass		
				40	4.0	-13.912	-0.0054	-2.5 to 2.5	Pass		
				50	4.0	-14.510	-0.0056	-2.5 to 2.5	Pass		
				2682.5	75	0	20	3.8	-10.991	-0.0041	-2.5 to 2.5
	4.0	-17.544	-0.0065					-2.5 to 2.5	Pass		
	4.2	-9.867	-0.0037					-2.5 to 2.5	Pass		
	-30	4.0	-17.269				-0.0064	-2.5 to 2.5	Pass		
	-20	4.0	-13.463				-0.0050	-2.5 to 2.5	Pass		
	-10	4.0	-16.326				-0.0061	-2.5 to 2.5	Pass		
	0	4.0	-14.497				-0.0054	-2.5 to 2.5	Pass		
	10	4.0	-15.248				-0.0057	-2.5 to 2.5	Pass		
	30	4.0	-17.880				-0.0067	-2.5 to 2.5	Pass		
	40	4.0	-10.717				-0.0040	-2.5 to 2.5	Pass		
	50	4.0	-9.798				-0.0037	-2.5 to 2.5	Pass		
	2503.5	75	0				20	3.8	-20.281	-0.0081	-2.5 to 2.5
				4.0	-10.460	-0.0042		-2.5 to 2.5	Pass		
4.2				-13.623	-0.0054	-2.5 to 2.5		Pass			
-30				4.0	-5.823	-0.0023	-2.5 to 2.5	Pass			
-20				4.0	-13.141	-0.0052	-2.5 to 2.5	Pass			
-10				4.0	-8.045	-0.0032	-2.5 to 2.5	Pass			
0				4.0	-14.766	-0.0059	-2.5 to 2.5	Pass			
10				4.0	-9.237	-0.0037	-2.5 to 2.5	Pass			
30				4.0	-10.299	-0.0041	-2.5 to 2.5	Pass			
40				4.0	-13.154	-0.0053	-2.5 to 2.5	Pass			
50				4.0	-14.541	-0.0058	-2.5 to 2.5	Pass			
2593				75	0	20	3.8	-16.296	-0.0063	-2.5 to 2.5	Pass
							4.0	-14.149	-0.0055	-2.5 to 2.5	Pass
							4.2	-12.047	-0.0046	-2.5 to 2.5	Pass
						-30	4.0	-11.363	-0.0044	-2.5 to 2.5	Pass
						-20	4.0	-22.577	-0.0087	-2.5 to 2.5	Pass
						-10	4.0	-12.168	-0.0047	-2.5 to 2.5	Pass
						0	4.0	-8.340	-0.0032	-2.5 to 2.5	Pass
						10	4.0	-22.327	-0.0086	-2.5 to 2.5	Pass
						30	4.0	-8.835	-0.0034	-2.5 to 2.5	Pass
	40	4.0	-7.539			-0.0029	-2.5 to 2.5	Pass			
	50	4.0	-13.821			-0.0053	-2.5 to 2.5	Pass			
	2682.5	75	0			20	3.8	-15.013	-0.0056	-2.5 to 2.5	Pass
4.0				-19.877	-0.0074		-2.5 to 2.5	Pass			
4.2				-19.977	-0.0074		-2.5 to 2.5	Pass			
-30				4.0	-7.736	-0.0029	-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 10 of 296

				-20	4.0	-11.309	-0.0042	-2.5 to 2.5	Pass
				-10	4.0	-15.456	-0.0058	-2.5 to 2.5	Pass
				0	4.0	-15.027	-0.0056	-2.5 to 2.5	Pass
				10	4.0	-10.680	-0.0040	-2.5 to 2.5	Pass
				30	4.0	-5.935	-0.0022	-2.5 to 2.5	Pass
				40	4.0	-11.773	-0.0044	-2.5 to 2.5	Pass
				50	4.0	-21.617	-0.0081	-2.5 to 2.5	Pass



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1.4 B41_20MHz

1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2506	100	0	20	3.8	-10.574	-0.0042	-2.5 to 2.5	Pass	
					4.0	-10.673	-0.0043	-2.5 to 2.5	Pass	
					4.2	-7.516	-0.0030	-2.5 to 2.5	Pass	
				-30	4.0	-13.242	-0.0053	-2.5 to 2.5	Pass	
					-20	4.0	-13.614	-0.0054	-2.5 to 2.5	Pass
						4.0	-6.861	-0.0027	-2.5 to 2.5	Pass
				0	4.0	-9.518	-0.0038	-2.5 to 2.5	Pass	
					4.0	-12.247	-0.0049	-2.5 to 2.5	Pass	
				30	4.0	-18.850	-0.0075	-2.5 to 2.5	Pass	
	40	4.0	-15.027	-0.0060	-2.5 to 2.5	Pass				
	50	4.0	-4.221	-0.0017	-2.5 to 2.5	Pass				
	2593	100	0	20	3.8	-11.280	-0.0044	-2.5 to 2.5	Pass	
					4.0	-17.242	-0.0066	-2.5 to 2.5	Pass	
					4.2	-7.666	-0.0030	-2.5 to 2.5	Pass	
				-30	4.0	-11.276	-0.0043	-2.5 to 2.5	Pass	
					-20	4.0	-15.481	-0.0060	-2.5 to 2.5	Pass
						4.0	-9.986	-0.0039	-2.5 to 2.5	Pass
				0	4.0	-21.109	-0.0081	-2.5 to 2.5	Pass	
					4.0	-11.197	-0.0043	-2.5 to 2.5	Pass	
				30	4.0	-6.709	-0.0026	-2.5 to 2.5	Pass	
	40	4.0	-17.782	-0.0069	-2.5 to 2.5	Pass				
	50	4.0	-8.242	-0.0032	-2.5 to 2.5	Pass				
	2680	100	0	20	3.8	-18.047	-0.0067	-2.5 to 2.5	Pass	
					4.0	-15.903	-0.0059	-2.5 to 2.5	Pass	
					4.2	-18.942	-0.0071	-2.5 to 2.5	Pass	
				-30	4.0	-21.336	-0.0080	-2.5 to 2.5	Pass	
					-20	4.0	-11.730	-0.0044	-2.5 to 2.5	Pass
4.0						-16.264	-0.0061	-2.5 to 2.5	Pass	
0				4.0	-18.332	-0.0068	-2.5 to 2.5	Pass		
				4.0	-7.017	-0.0026	-2.5 to 2.5	Pass		
30				4.0	-11.848	-0.0044	-2.5 to 2.5	Pass		
40	4.0	-19.383	-0.0072	-2.5 to 2.5	Pass					
50	4.0	-12.234	-0.0046	-2.5 to 2.5	Pass					
16QAM	2506	100	0	20	3.8	-13.290	-0.0053	-2.5 to 2.5	Pass	
					4.0	-16.528	-0.0066	-2.5 to 2.5	Pass	
					4.2	-18.088	-0.0072	-2.5 to 2.5	Pass	
				-30	4.0	-14.923	-0.0060	-2.5 to 2.5	Pass	
					-20	4.0	-17.370	-0.0069	-2.5 to 2.5	Pass
						4.0	-13.050	-0.0052	-2.5 to 2.5	Pass
				0	4.0	-18.441	-0.0074	-2.5 to 2.5	Pass	
					4.0	-17.576	-0.0070	-2.5 to 2.5	Pass	
				30	4.0	-17.781	-0.0071	-2.5 to 2.5	Pass	



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SEWA2310000127RG01

Rev.: 01

Page: 12 of 296

64QAM	2593	100	0	40	4.0	-17.500	-0.0070	-2.5 to 2.5	Pass		
				50	4.0	-11.362	-0.0045	-2.5 to 2.5	Pass		
				20	3.8	-14.781	-0.0057	-2.5 to 2.5	Pass		
					4.0	-11.817	-0.0046	-2.5 to 2.5	Pass		
					4.2	-9.595	-0.0037	-2.5 to 2.5	Pass		
				-30	4.0	-14.079	-0.0054	-2.5 to 2.5	Pass		
				-20	4.0	-10.082	-0.0039	-2.5 to 2.5	Pass		
				-10	4.0	-12.048	-0.0046	-2.5 to 2.5	Pass		
				0	4.0	-13.070	-0.0050	-2.5 to 2.5	Pass		
				10	4.0	-15.512	-0.0060	-2.5 to 2.5	Pass		
				30	4.0	-15.702	-0.0061	-2.5 to 2.5	Pass		
				40	4.0	-17.209	-0.0066	-2.5 to 2.5	Pass		
				50	4.0	-13.822	-0.0053	-2.5 to 2.5	Pass		
				2680	100	0	20	3.8	-11.879	-0.0044	-2.5 to 2.5
	4.0	-13.969	-0.0052					-2.5 to 2.5	Pass		
	4.2	-9.245	-0.0034					-2.5 to 2.5	Pass		
	-30	4.0	-14.967				-0.0056	-2.5 to 2.5	Pass		
	-20	4.0	-15.998				-0.0060	-2.5 to 2.5	Pass		
	-10	4.0	-11.677				-0.0044	-2.5 to 2.5	Pass		
	0	4.0	-12.207				-0.0046	-2.5 to 2.5	Pass		
	10	4.0	-11.483				-0.0043	-2.5 to 2.5	Pass		
	30	4.0	-19.950				-0.0074	-2.5 to 2.5	Pass		
	40	4.0	-16.006				-0.0060	-2.5 to 2.5	Pass		
	50	4.0	-17.932				-0.0067	-2.5 to 2.5	Pass		
	2506	100	0				20	3.8	-17.573	-0.0070	-2.5 to 2.5
				4.0	-13.234	-0.0053		-2.5 to 2.5	Pass		
4.2				-13.334	-0.0053	-2.5 to 2.5		Pass			
-30				4.0	-12.482	-0.0050	-2.5 to 2.5	Pass			
-20				4.0	-6.610	-0.0026	-2.5 to 2.5	Pass			
-10				4.0	-12.276	-0.0049	-2.5 to 2.5	Pass			
0				4.0	-9.457	-0.0038	-2.5 to 2.5	Pass			
10				4.0	-21.512	-0.0086	-2.5 to 2.5	Pass			
30				4.0	-11.378	-0.0045	-2.5 to 2.5	Pass			
40				4.0	-10.191	-0.0041	-2.5 to 2.5	Pass			
50				4.0	-14.199	-0.0057	-2.5 to 2.5	Pass			
2593				100	0	20	3.8	-16.893	-0.0065	-2.5 to 2.5	Pass
							4.0	-7.536	-0.0029	-2.5 to 2.5	Pass
							4.2	-17.985	-0.0069	-2.5 to 2.5	Pass
						-30	4.0	-12.049	-0.0046	-2.5 to 2.5	Pass
						-20	4.0	-9.623	-0.0037	-2.5 to 2.5	Pass
						-10	4.0	-15.906	-0.0061	-2.5 to 2.5	Pass
						0	4.0	-8.918	-0.0034	-2.5 to 2.5	Pass
	10	4.0	-7.350			-0.0028	-2.5 to 2.5	Pass			
	30	4.0	-4.887			-0.0019	-2.5 to 2.5	Pass			
	40	4.0	-16.641			-0.0064	-2.5 to 2.5	Pass			
50	4.0	-9.699	-0.0037	-2.5 to 2.5	Pass						
2680	100	0	20	3.8	-24.120	-0.0090	-2.5 to 2.5	Pass			
				4.0	-11.364	-0.0042	-2.5 to 2.5	Pass			
				4.2	-5.088	-0.0019	-2.5 to 2.5	Pass			
			-30	4.0	-10.956	-0.0041	-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 13 of 296

				-20	4.0	-7.874	-0.0029	-2.5 to 2.5	Pass
				-10	4.0	-13.208	-0.0049	-2.5 to 2.5	Pass
				0	4.0	-17.436	-0.0065	-2.5 to 2.5	Pass
				10	4.0	-12.381	-0.0046	-2.5 to 2.5	Pass
				30	4.0	-22.029	-0.0082	-2.5 to 2.5	Pass
				40	4.0	-13.300	-0.0050	-2.5 to 2.5	Pass
				50	4.0	-9.034	-0.0034	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band41_OBW

2.1.1 Test Result

Band: 41 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.540	/	Pass
		2593	25	0	4.546	/	Pass
		2687.5	25	0	4.556	/	Pass
	16QAM	2498.5	25	0	4.568	/	Pass
		2593	25	0	4.542	/	Pass
		2687.5	25	0	4.552	/	Pass
	64QAM	2498.5	25	0	4.548	/	Pass
		2593	25	0	4.530	/	Pass
		2687.5	25	0	4.539	/	Pass
10	QPSK	2501	50	0	9.027	/	Pass
		2593	50	0	9.034	/	Pass
		2685	50	0	9.042	/	Pass
	16QAM	2501	50	0	9.043	/	Pass
		2593	50	0	9.061	/	Pass
		2685	50	0	9.027	/	Pass
	64QAM	2501	50	0	9.037	/	Pass
		2593	50	0	9.021	/	Pass
		2685	50	0	9.045	/	Pass
15	QPSK	2503.5	75	0	13.576	/	Pass
		2593	75	0	13.573	/	Pass
		2682.5	75	0	13.519	/	Pass
	16QAM	2503.5	75	0	13.601	/	Pass
		2593	75	0	13.555	/	Pass
		2682.5	75	0	13.606	/	Pass
	64QAM	2503.5	75	0	13.553	/	Pass
		2593	75	0	13.586	/	Pass
		2682.5	75	0	13.577	/	Pass
20	QPSK	2506	100	0	18.075	/	Pass
		2593	100	0	17.998	/	Pass
		2680	100	0	18.056	/	Pass
	16QAM	2506	100	0	18.032	/	Pass
		2593	100	0	18.053	/	Pass
		2680	100	0	18.072	/	Pass
	64QAM	2506	100	0	17.997	/	Pass
		2593	100	0	18.037	/	Pass
		2680	100	0	18.066	/	Pass

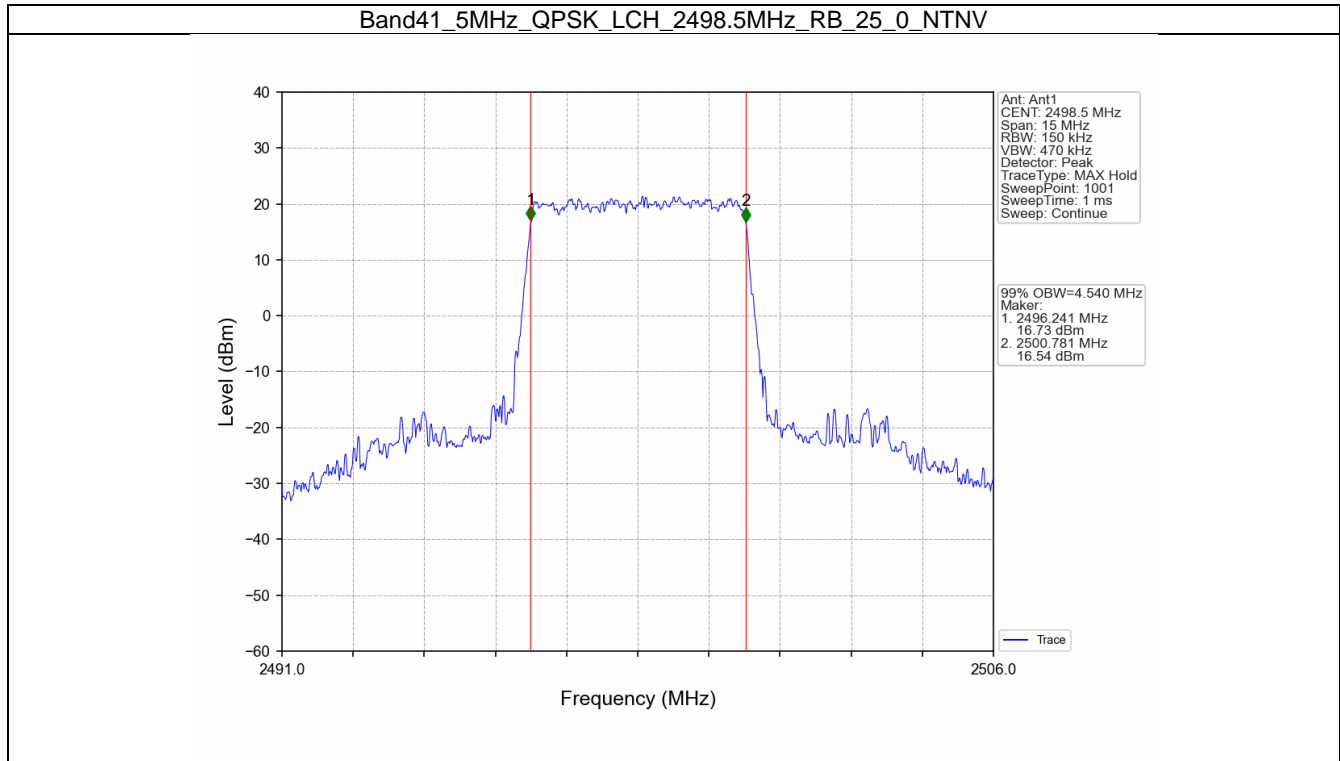


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2.1.2 Test Graph

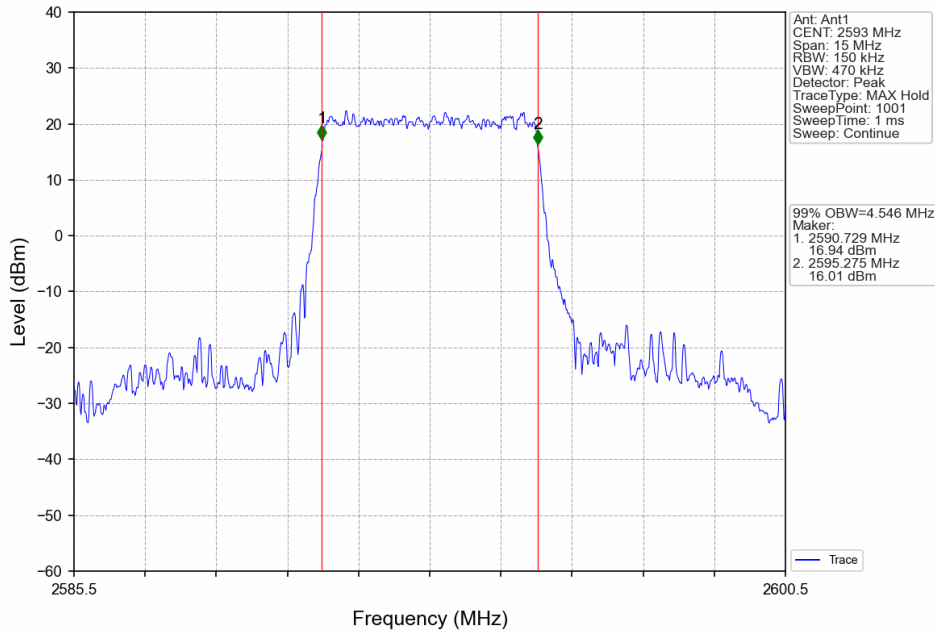


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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV

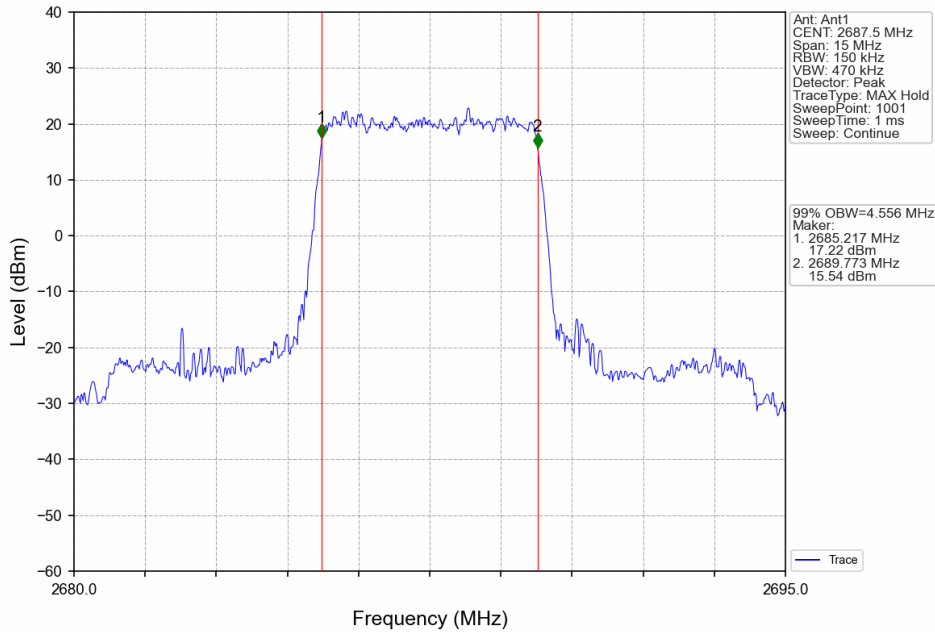


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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV

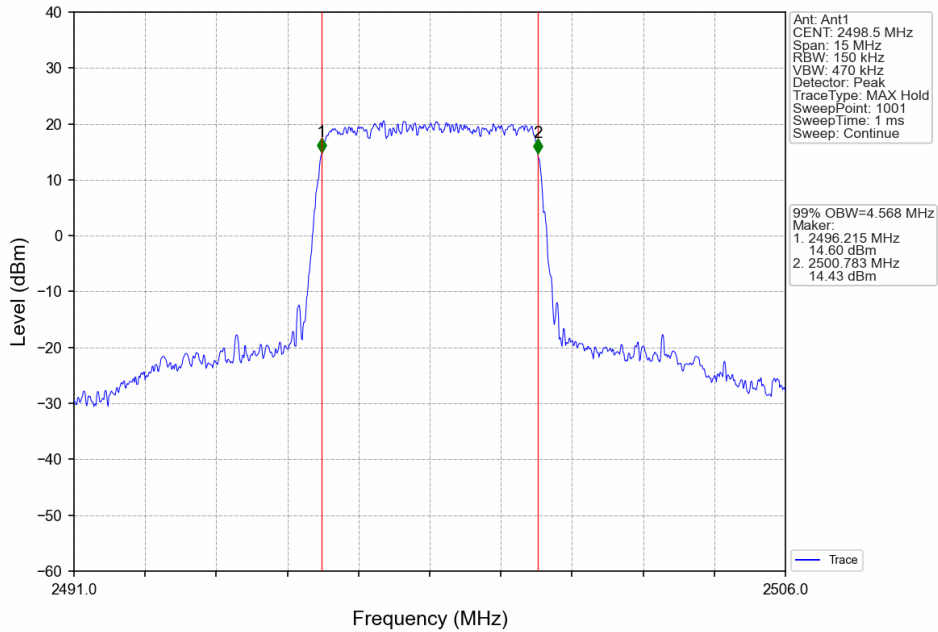


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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV

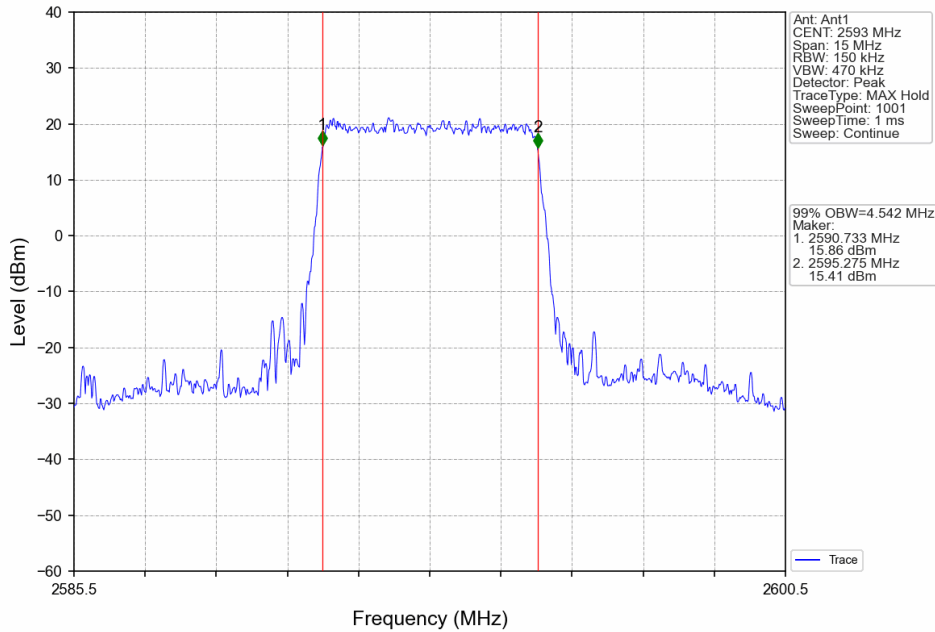


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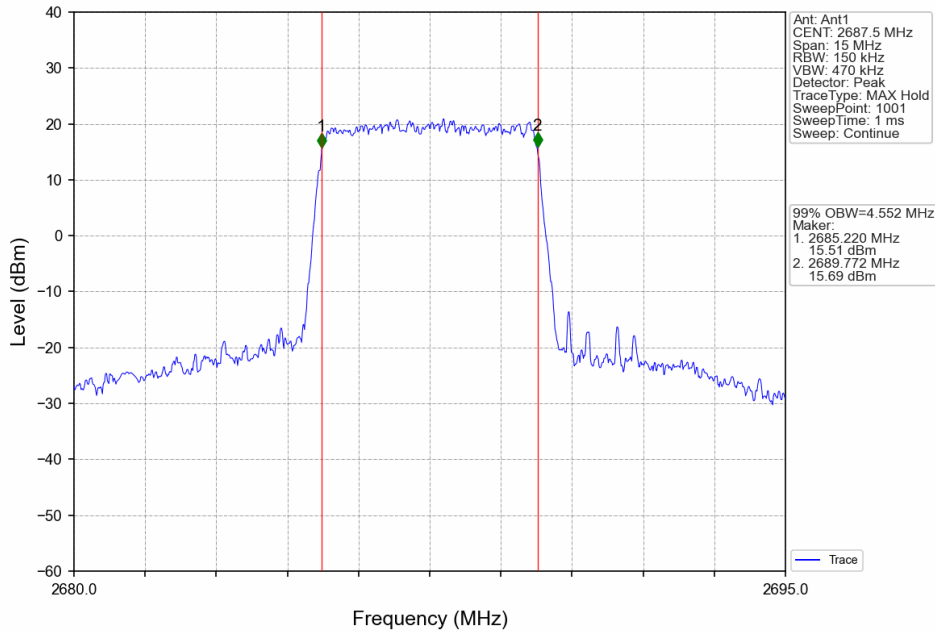
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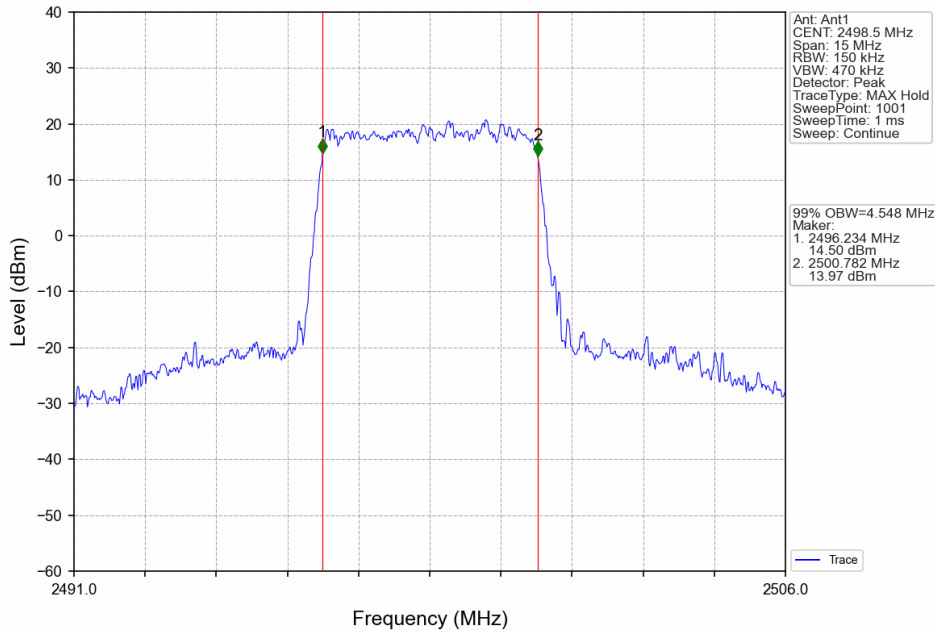


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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_25_0_NTNV

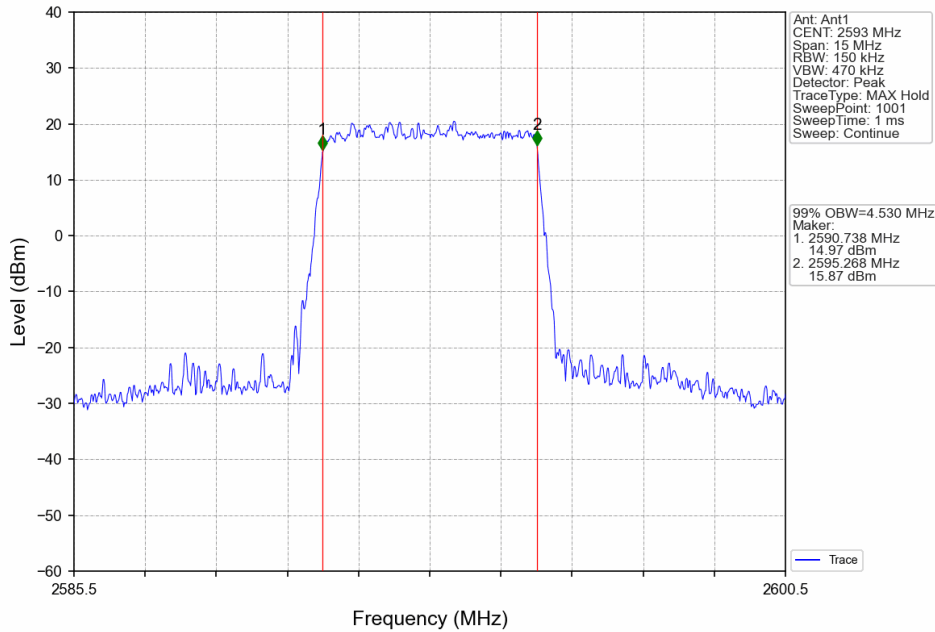


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Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV

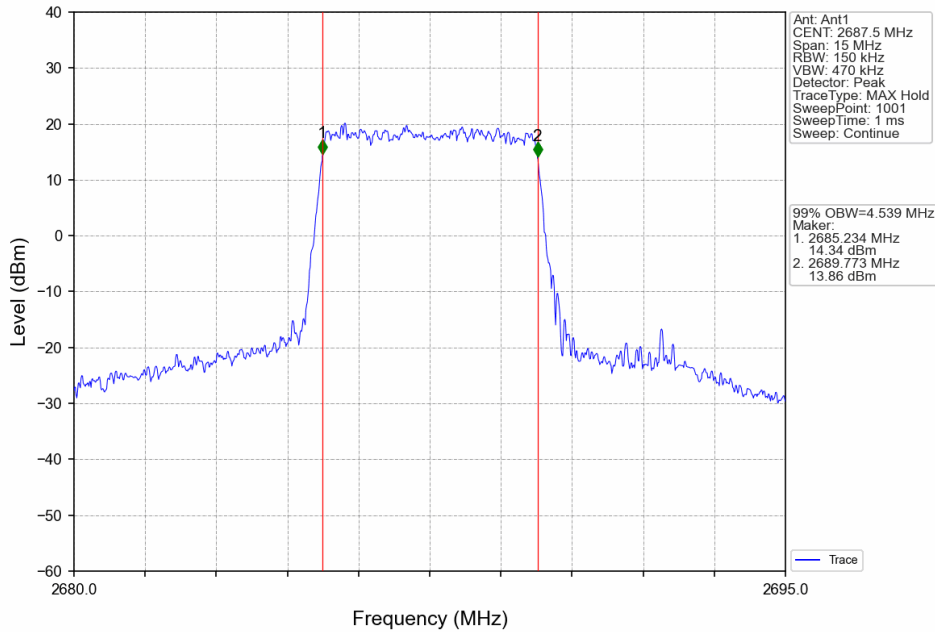


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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV

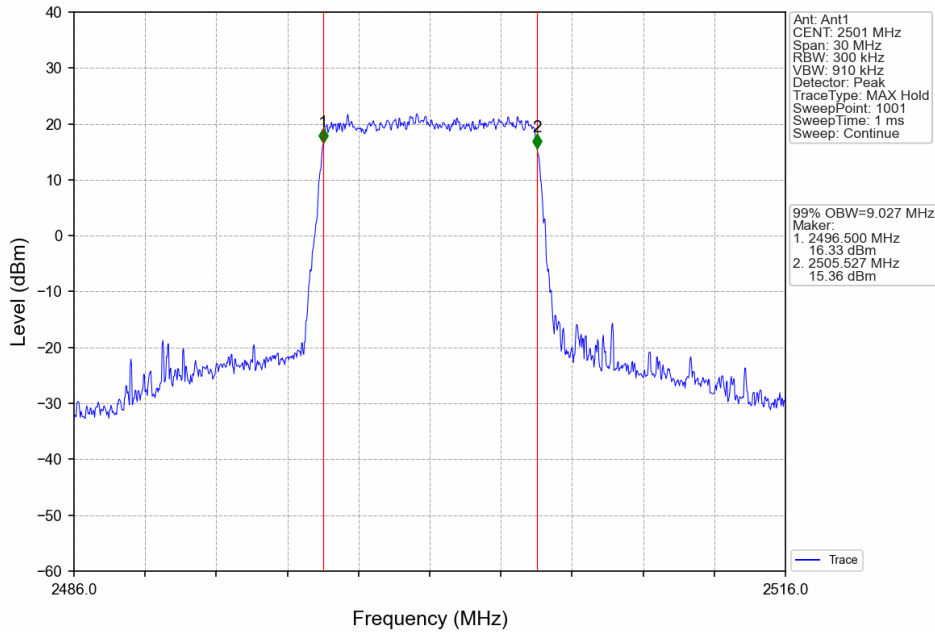


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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV

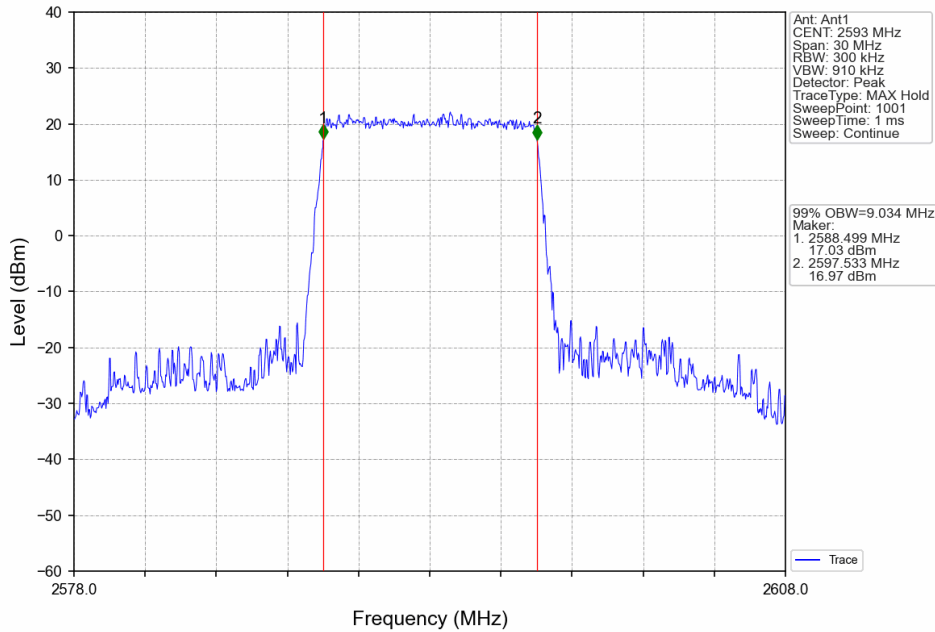


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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV

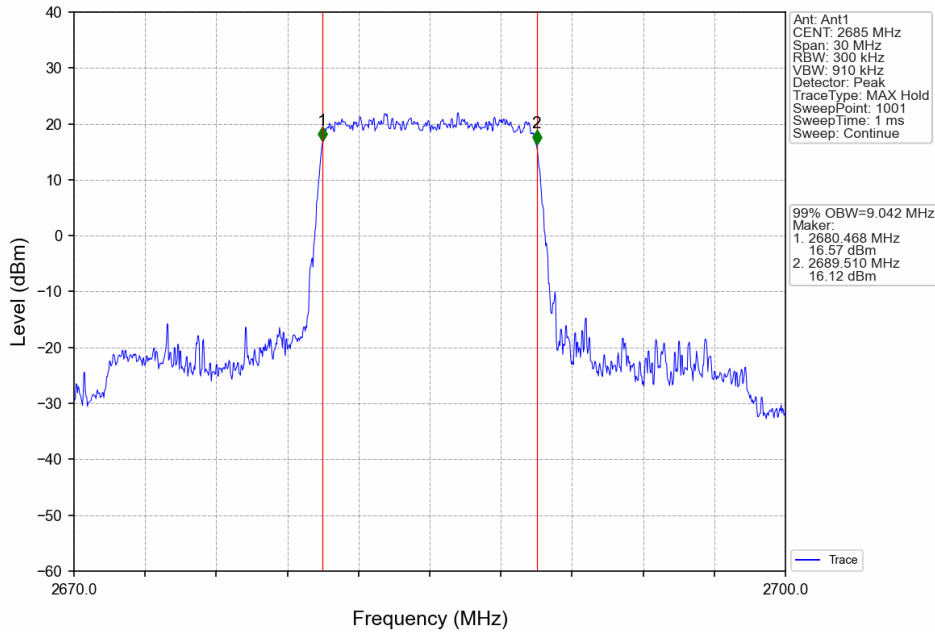


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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



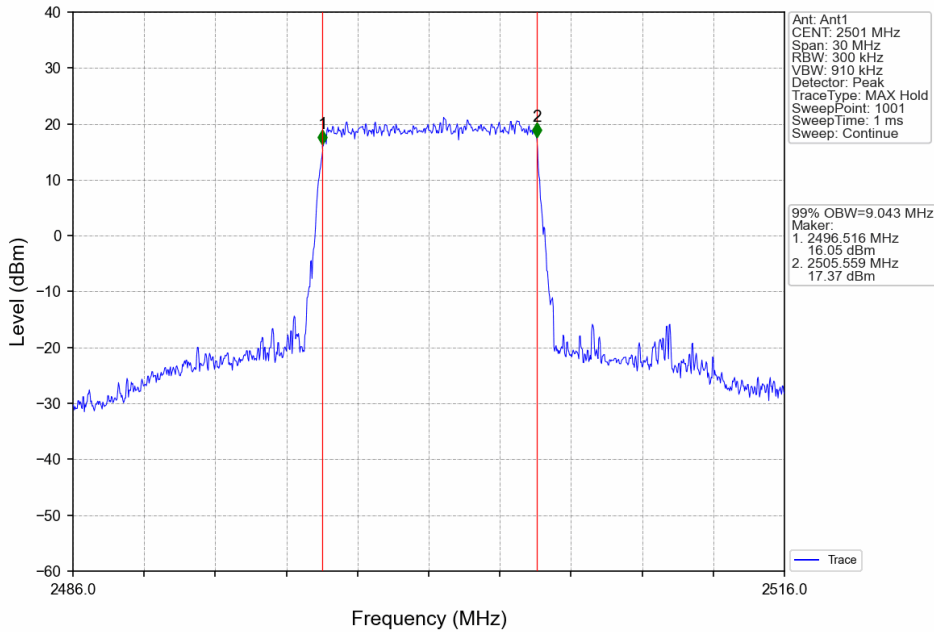
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Band41_10MHz_16QAM_LCH_2501MHz_RB_50_0_NTNV

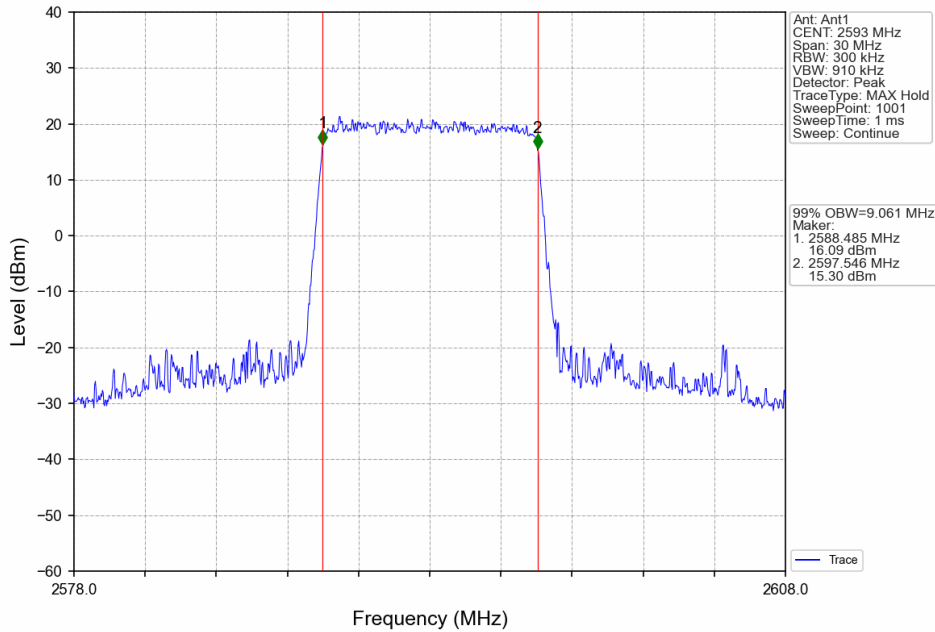


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Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



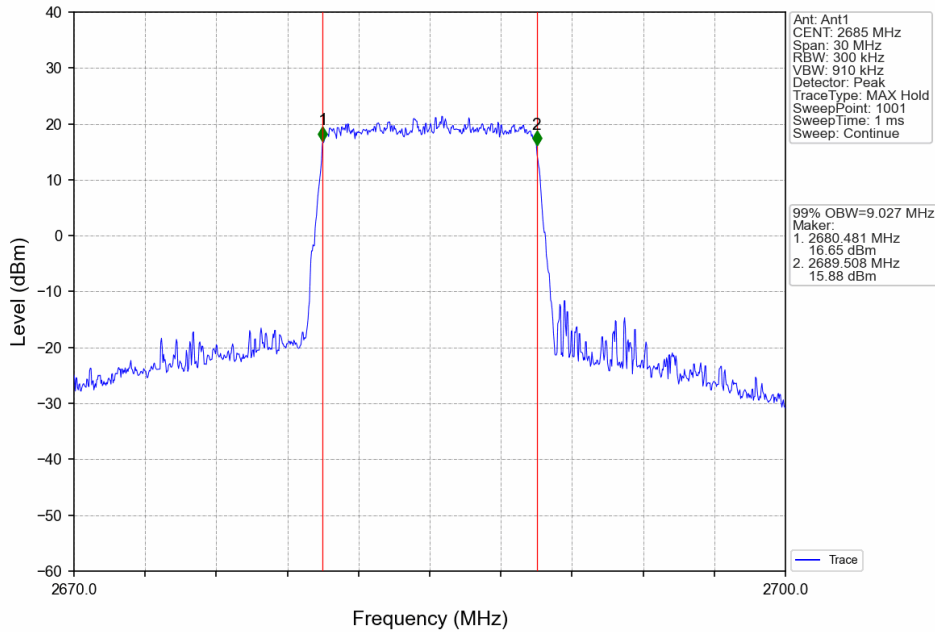
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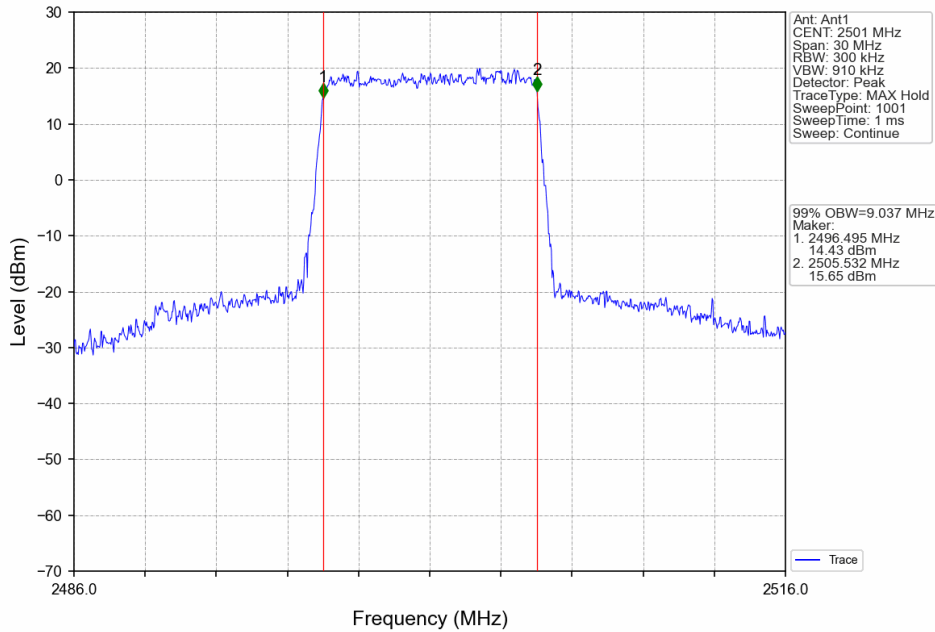
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Band41_10MHz_64QAM_LCH_2501MHz_RB_50_0_NTNV

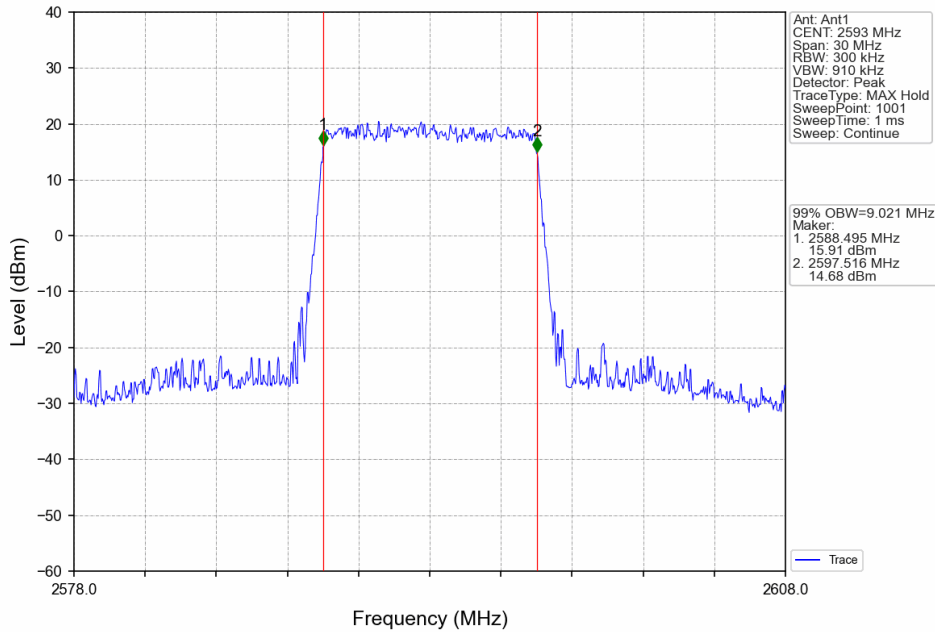


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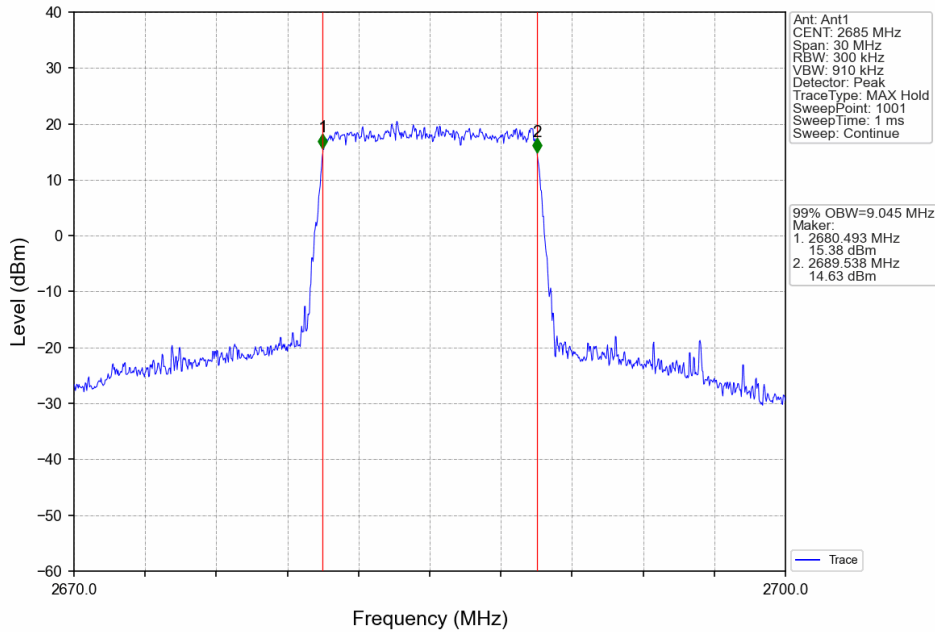
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Band41_10MHz_64QAM_HCH_2685MHz_RB_50_0_NTNV

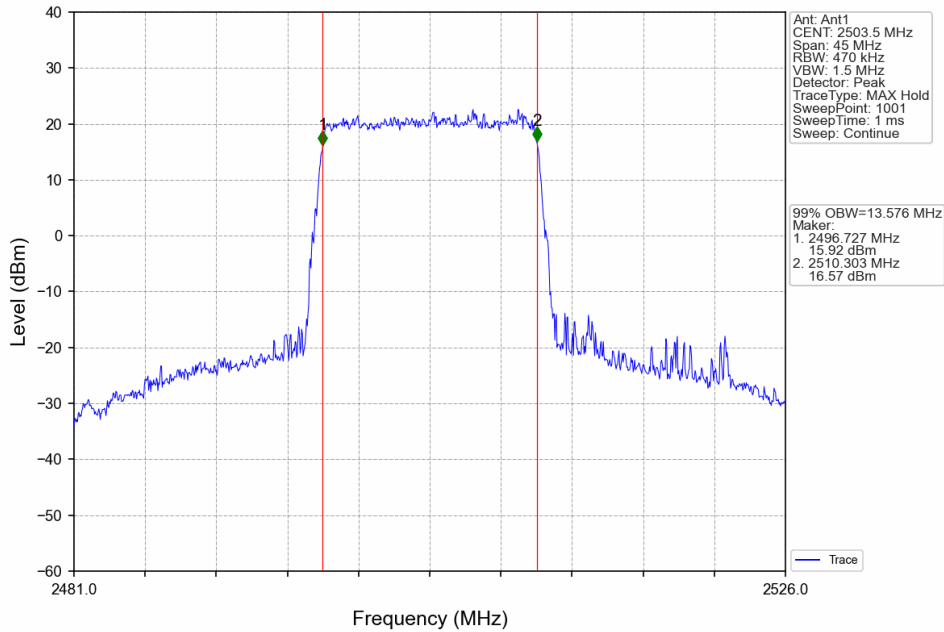


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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV

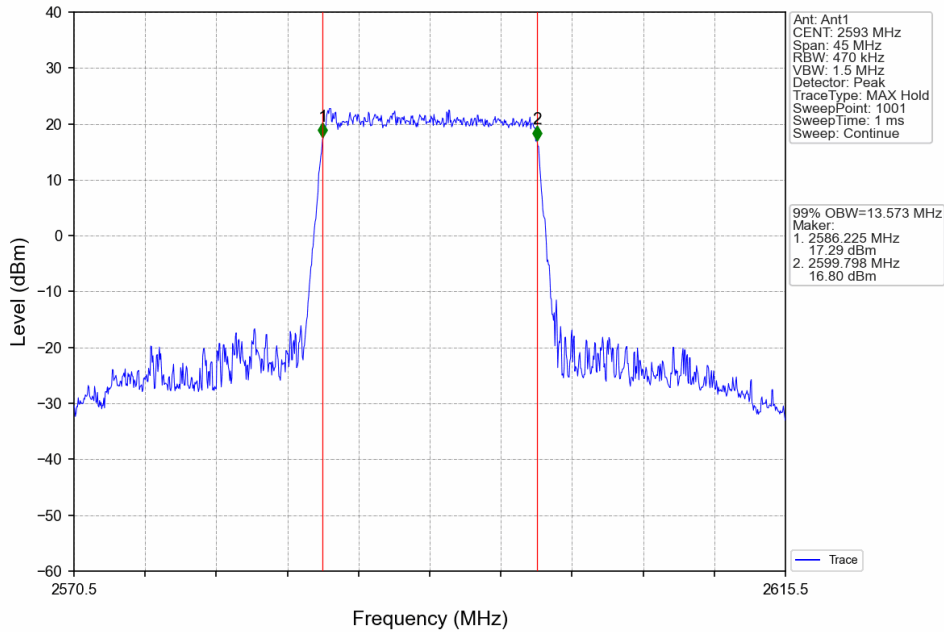


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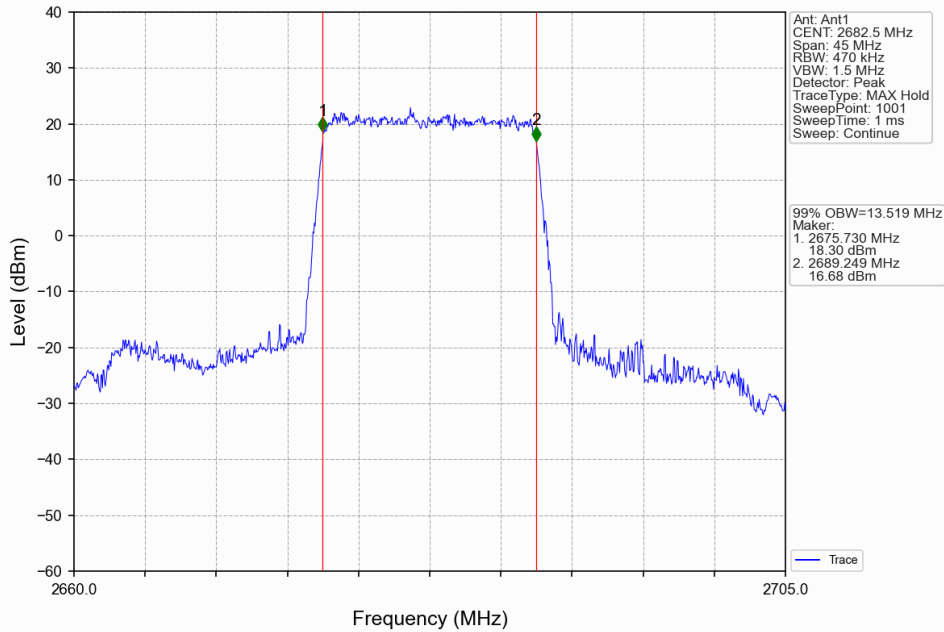


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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



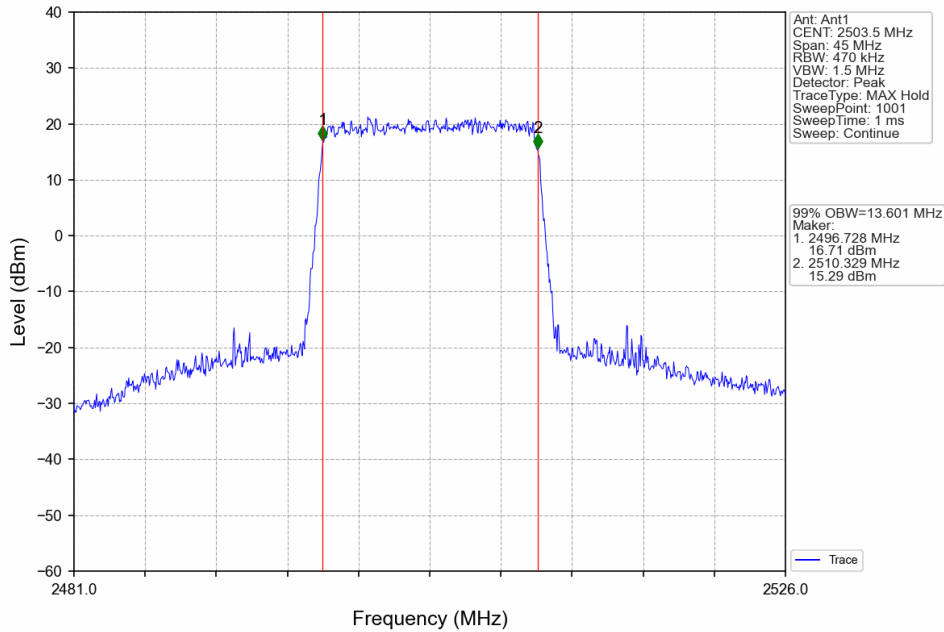
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Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV

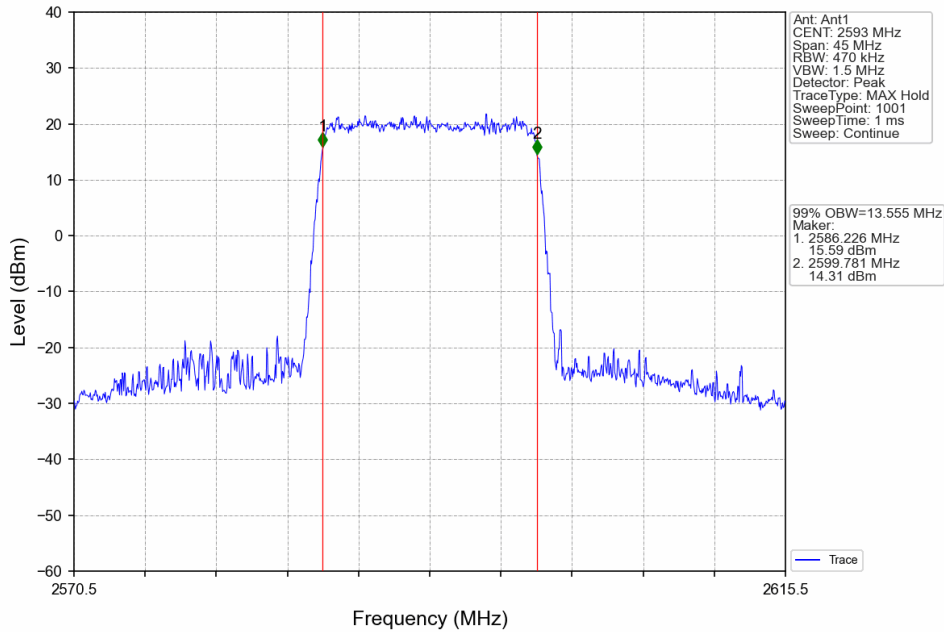


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Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV

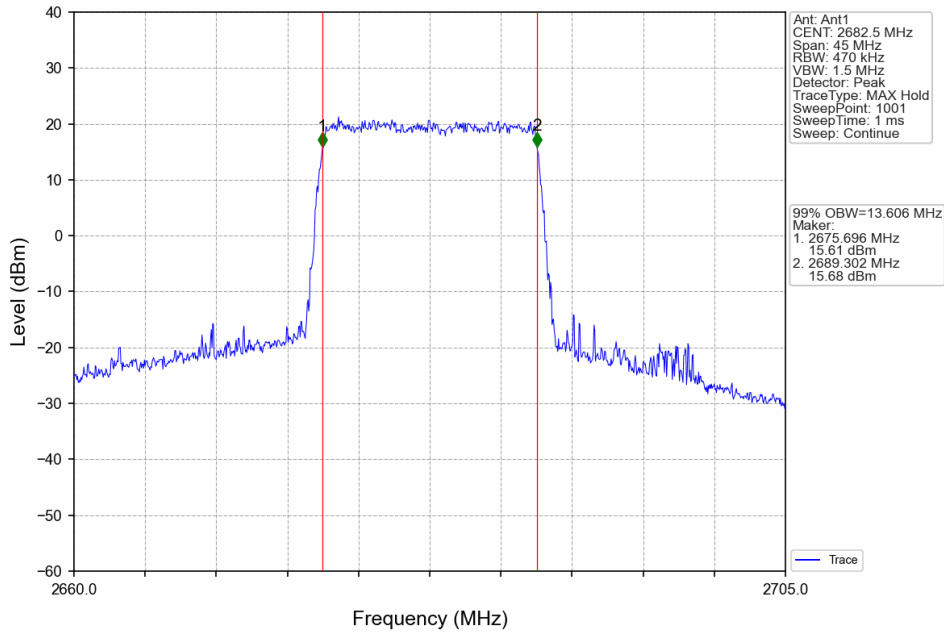


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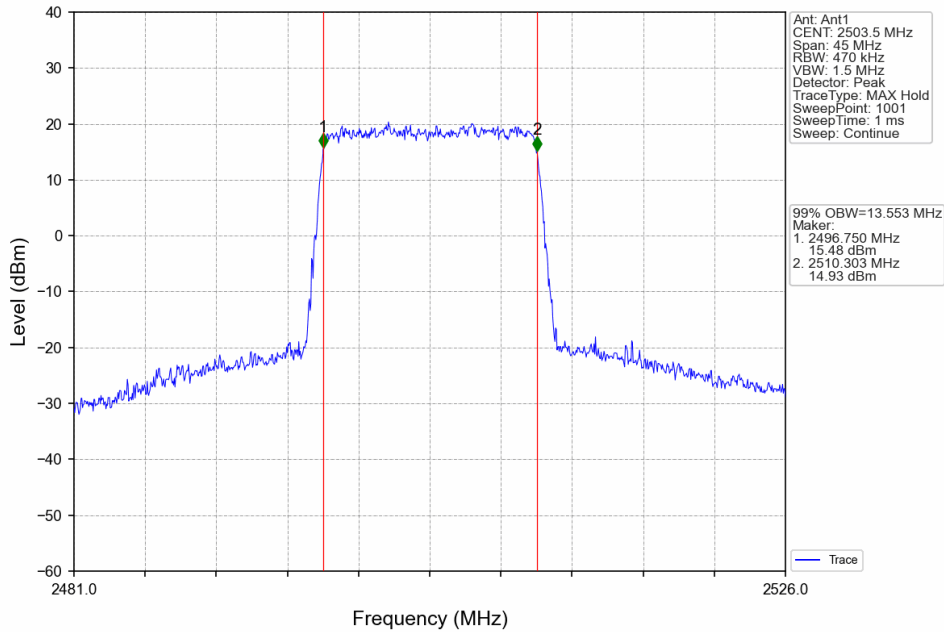


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Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV

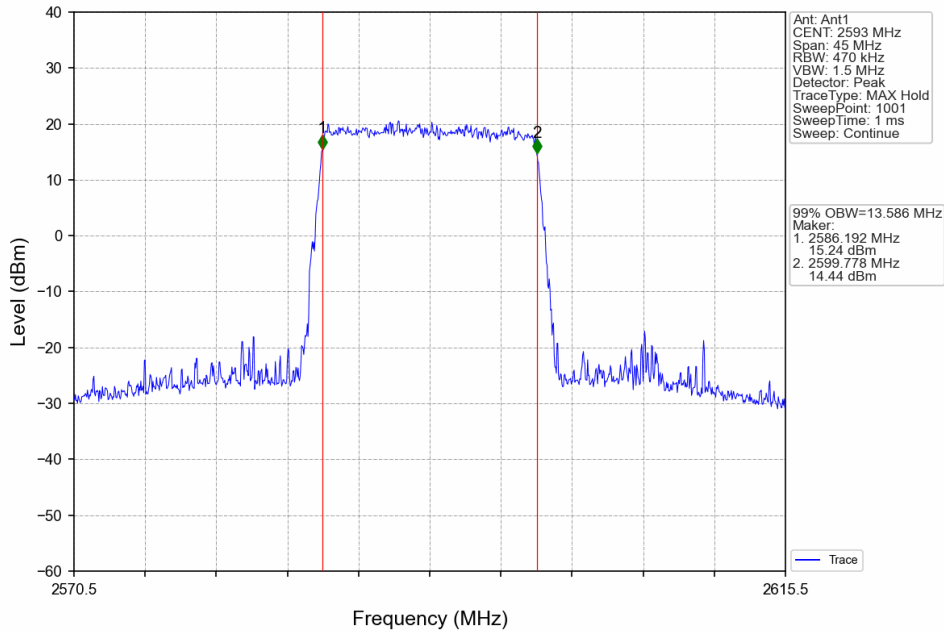


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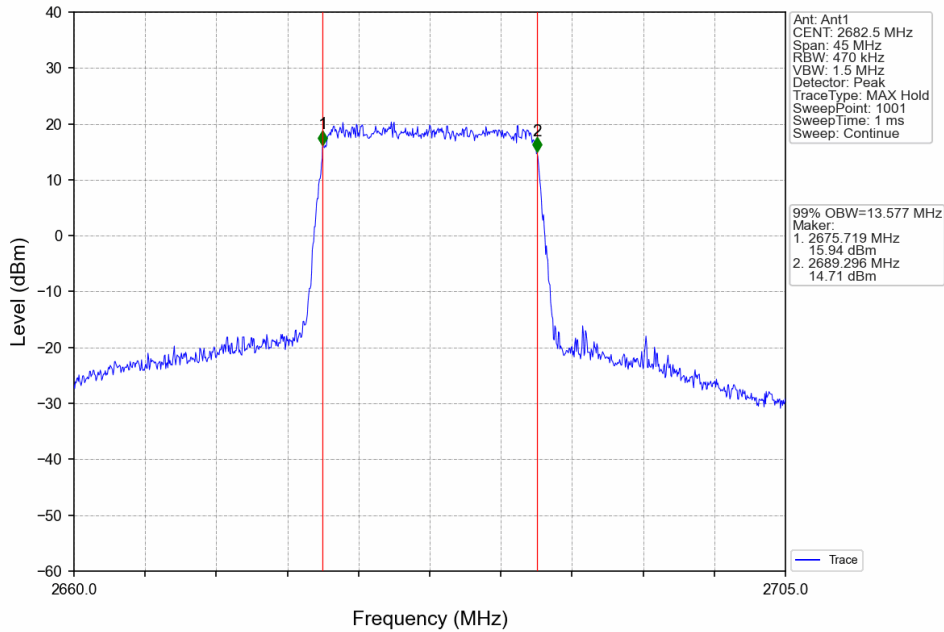


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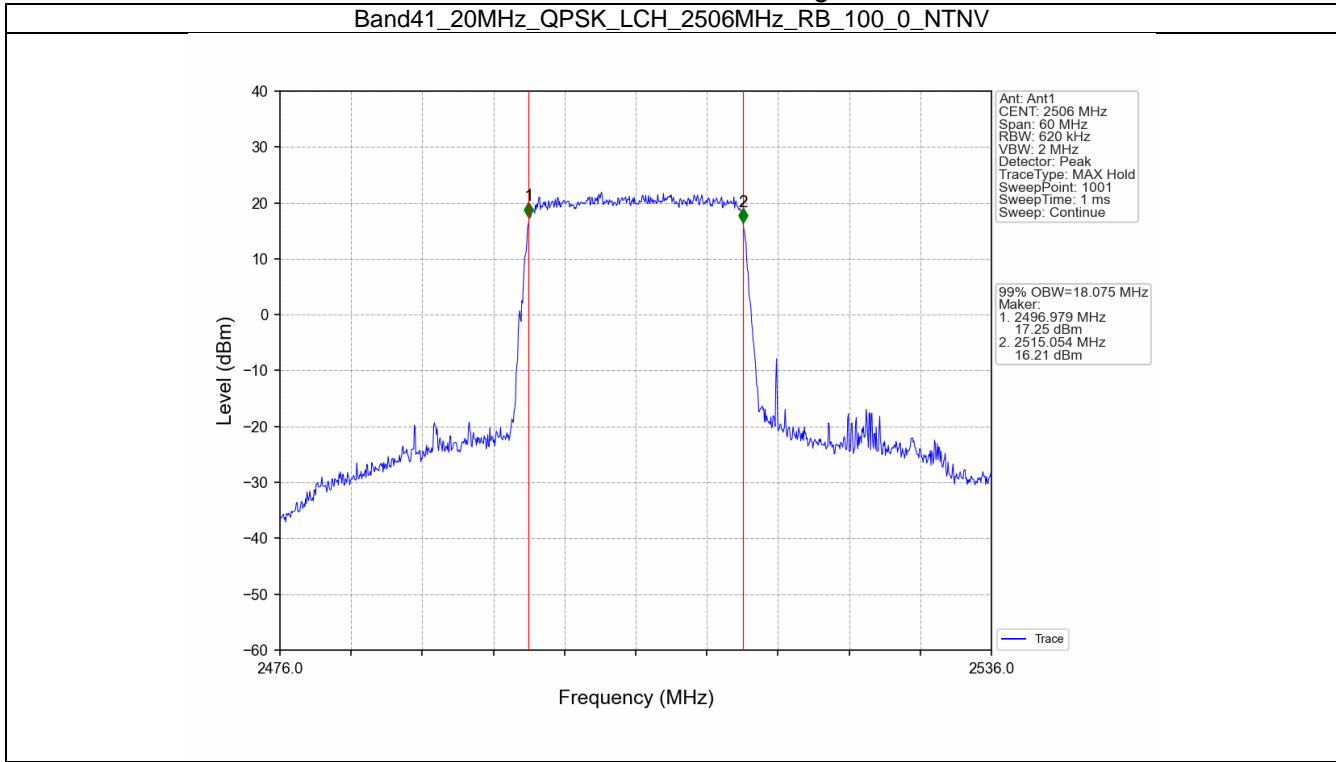
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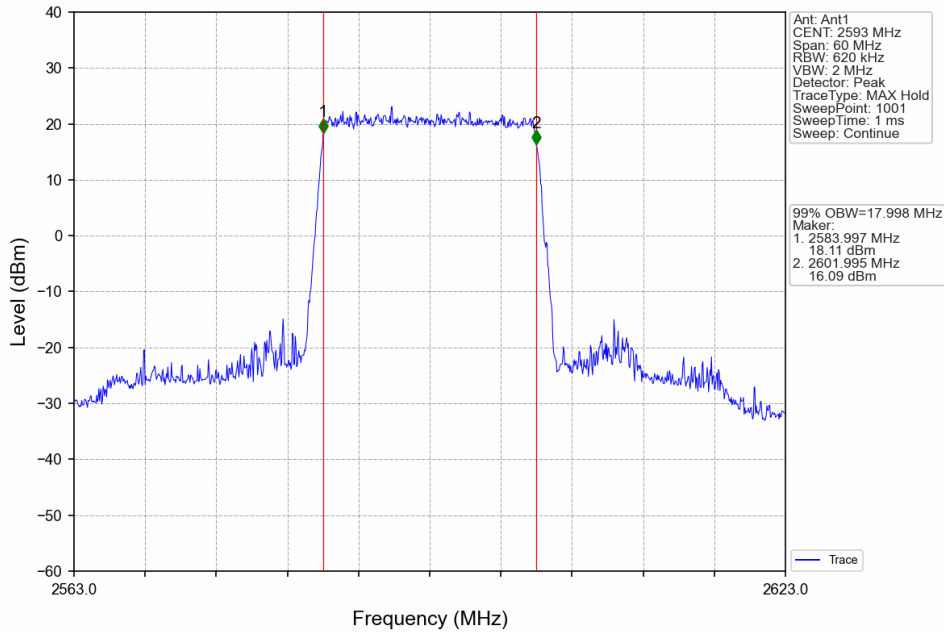
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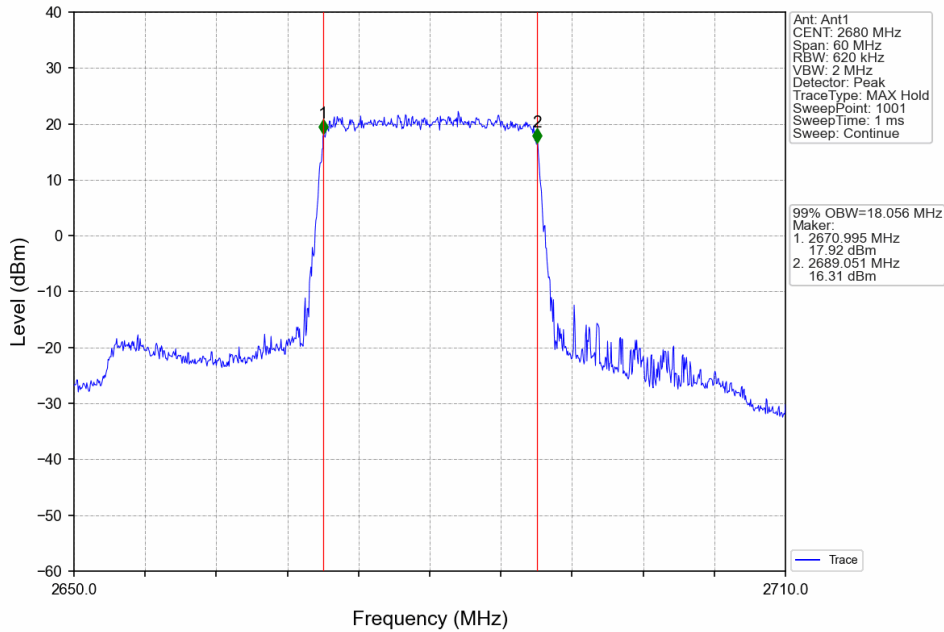
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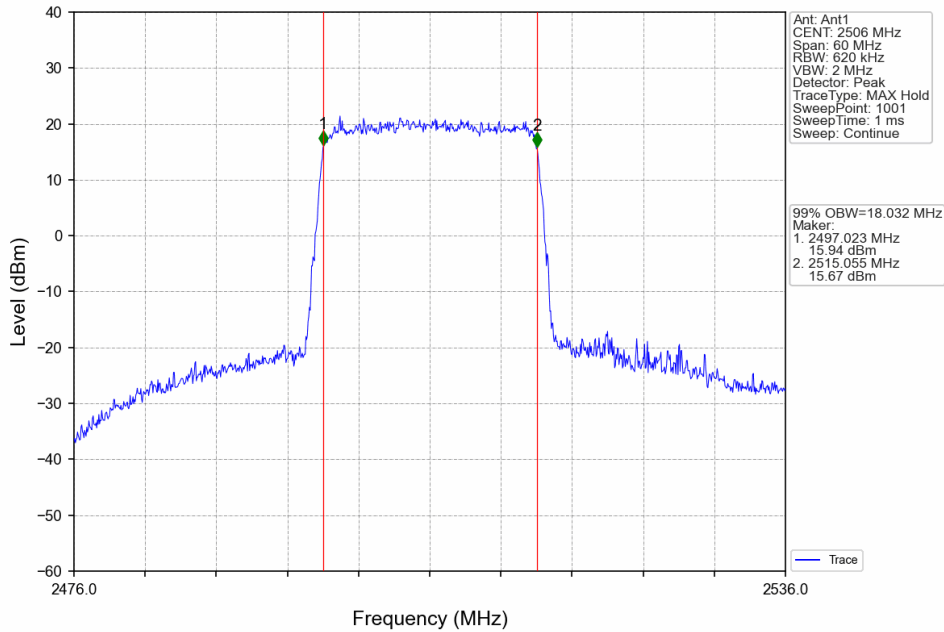


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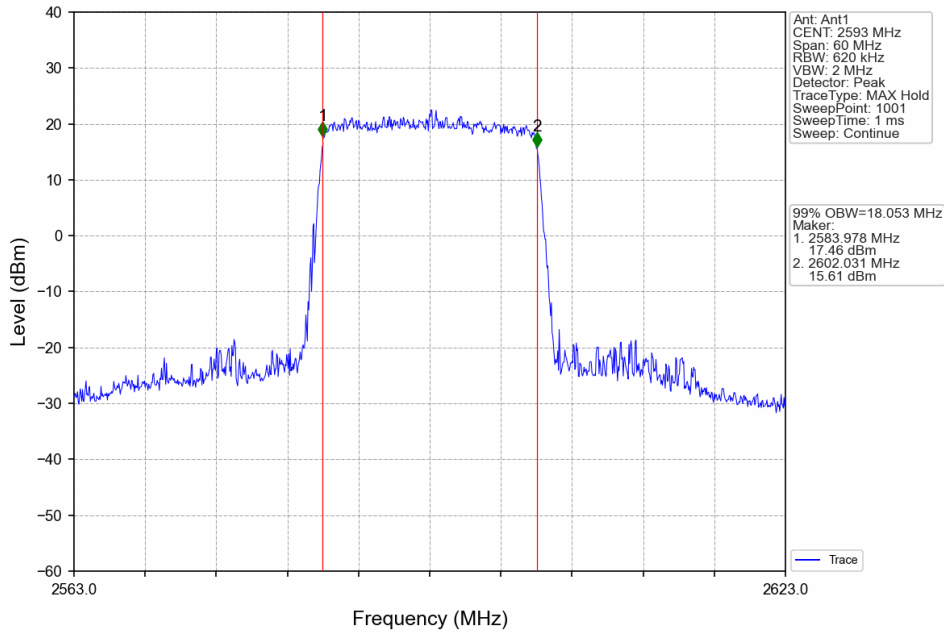


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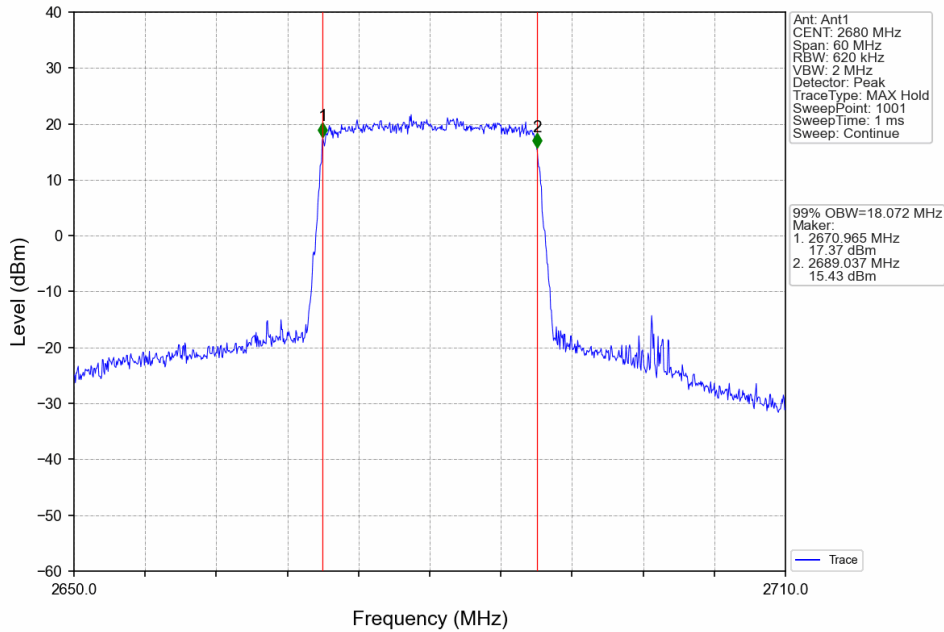


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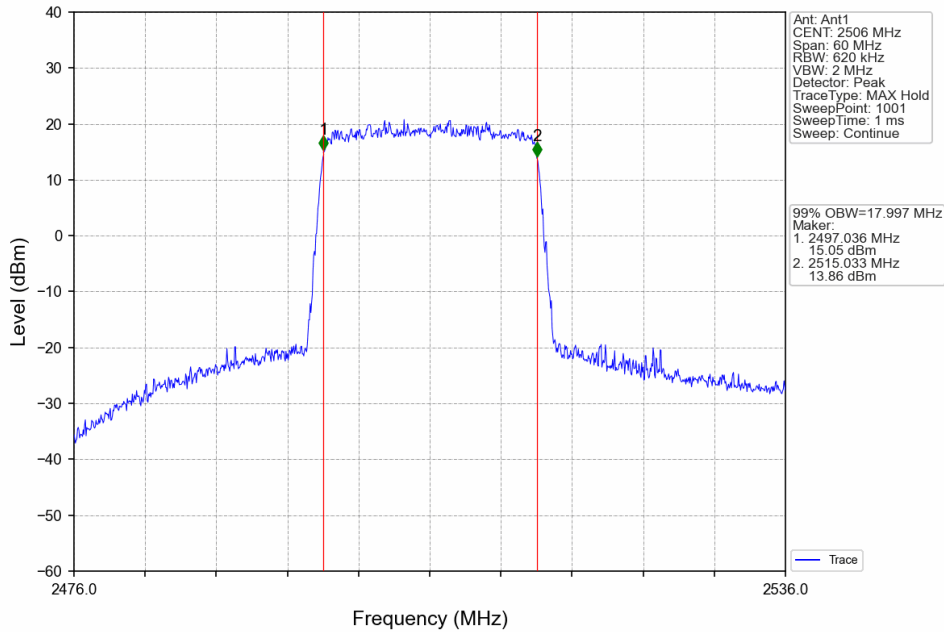


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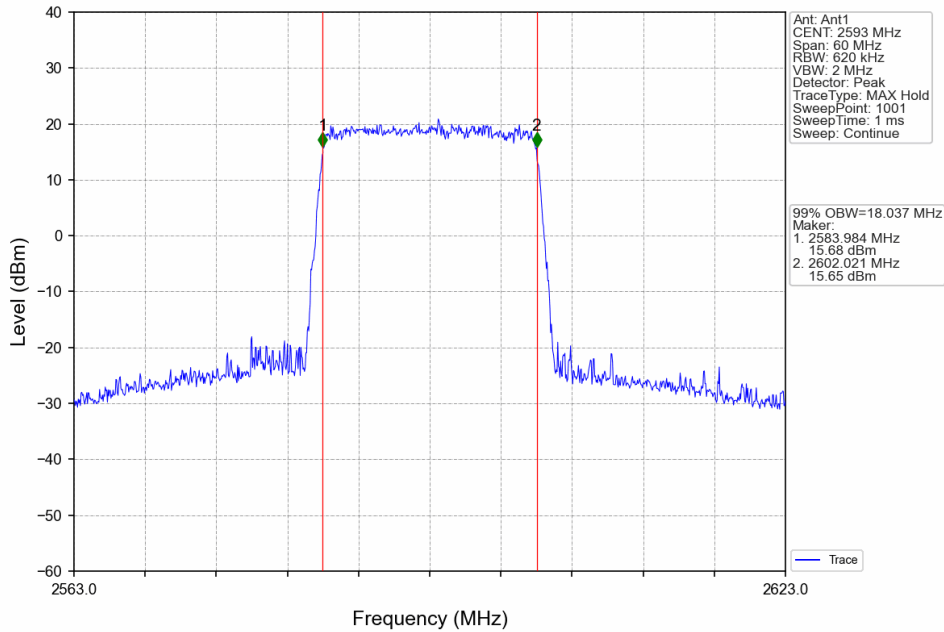


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Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV

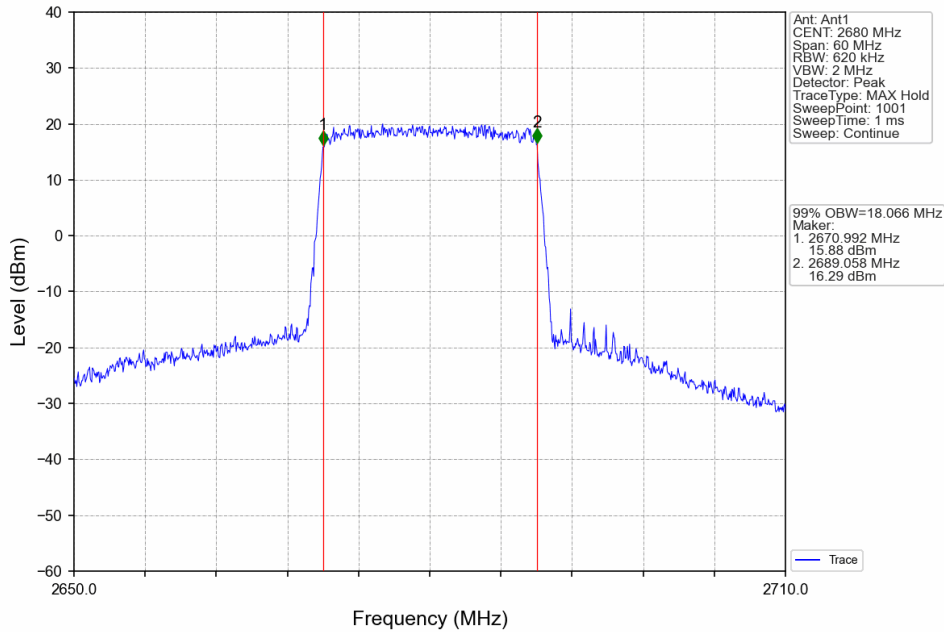


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2.2 Band41_XDB

2.2.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.027	/	Pass
		2593	25	0	5.070	/	Pass
		2687.5	25	0	5.034	/	Pass
	16QAM	2498.5	25	0	5.038	/	Pass
		2593	25	0	5.024	/	Pass
		2687.5	25	0	5.033	/	Pass
	64QAM	2498.5	25	0	5.037	/	Pass
		2593	25	0	4.998	/	Pass
		2687.5	25	0	5.067	/	Pass
10	QPSK	2501	50	0	9.882	/	Pass
		2593	50	0	9.936	/	Pass
		2685	50	0	9.934	/	Pass
	16QAM	2501	50	0	9.951	/	Pass
		2593	50	0	9.872	/	Pass
		2685	50	0	9.971	/	Pass
	64QAM	2501	50	0	9.968	/	Pass
		2593	50	0	9.954	/	Pass
		2685	50	0	9.964	/	Pass
15	QPSK	2503.5	75	0	15.009	/	Pass
		2593	75	0	14.851	/	Pass
		2682.5	75	0	14.943	/	Pass
	16QAM	2503.5	75	0	14.869	/	Pass
		2593	75	0	14.898	/	Pass
		2682.5	75	0	14.841	/	Pass
	64QAM	2503.5	75	0	14.966	/	Pass
		2593	75	0	14.997	/	Pass
		2682.5	75	0	14.954	/	Pass
20	QPSK	2506	100	0	19.810	/	Pass
		2593	100	0	19.738	/	Pass
		2680	100	0	19.810	/	Pass
	16QAM	2506	100	0	19.862	/	Pass
		2593	100	0	19.724	/	Pass
		2680	100	0	19.748	/	Pass
	64QAM	2506	100	0	19.722	/	Pass
		2593	100	0	19.822	/	Pass
		2680	100	0	19.881	/	Pass

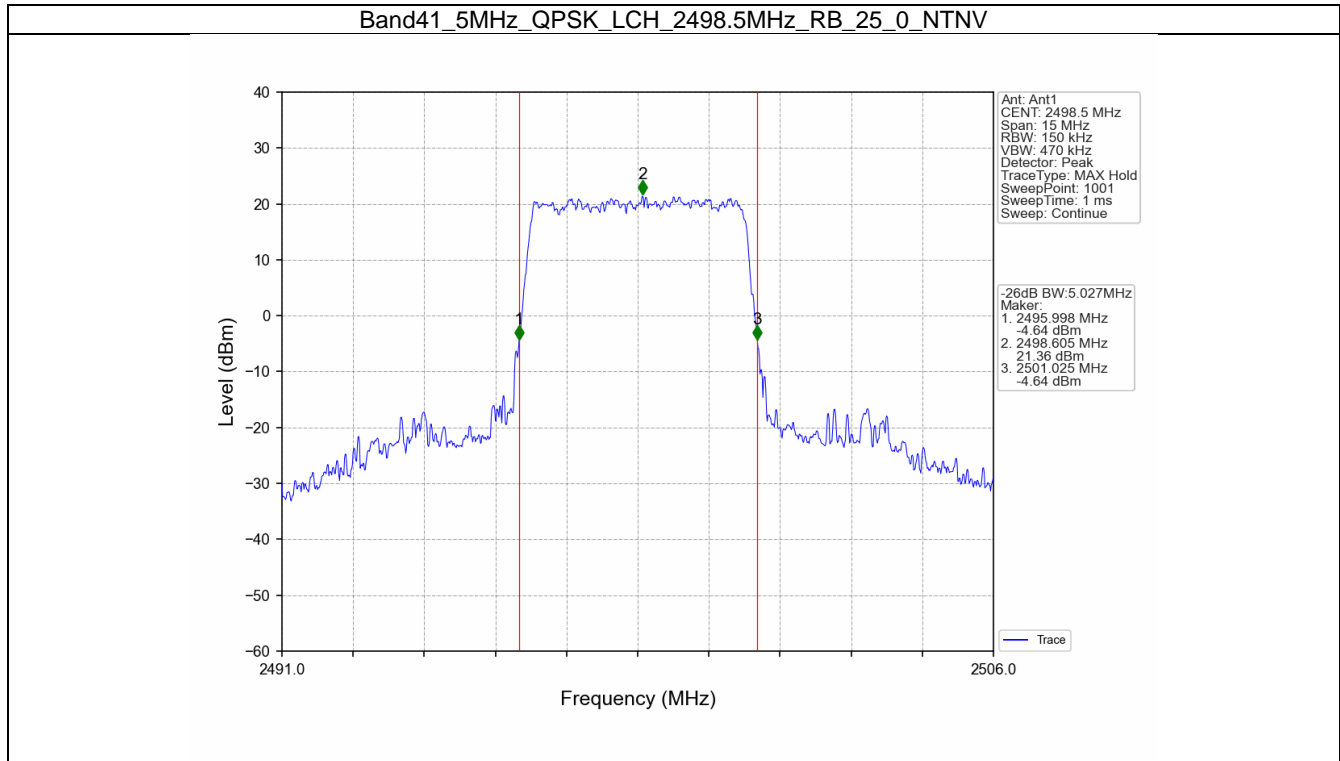


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2.2.2 Test Graph

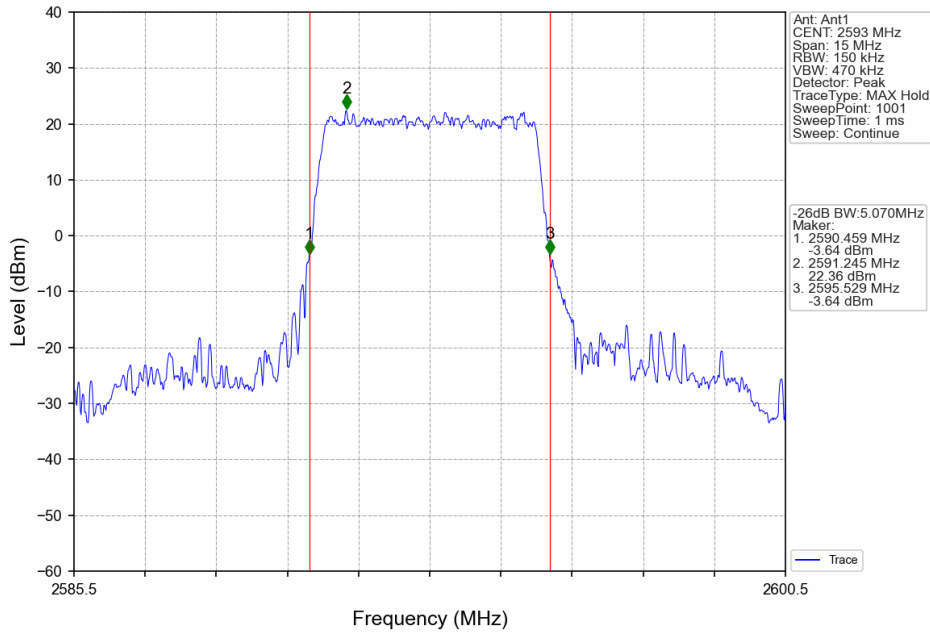


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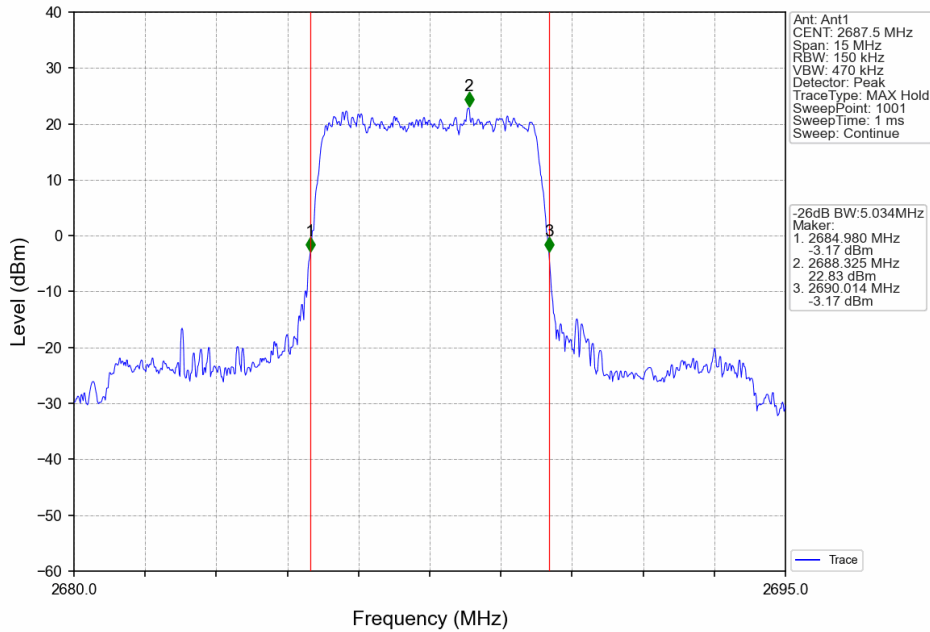


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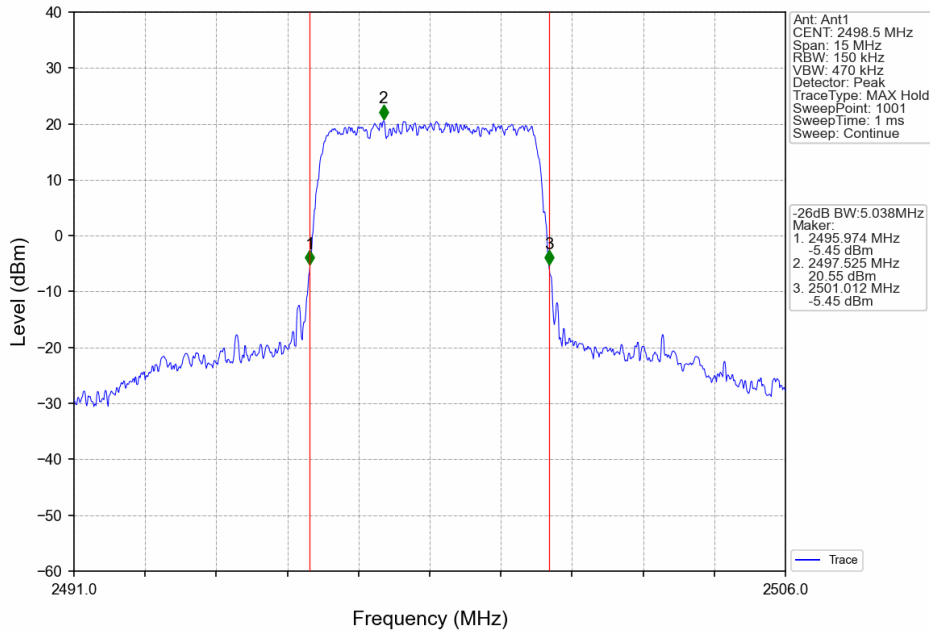


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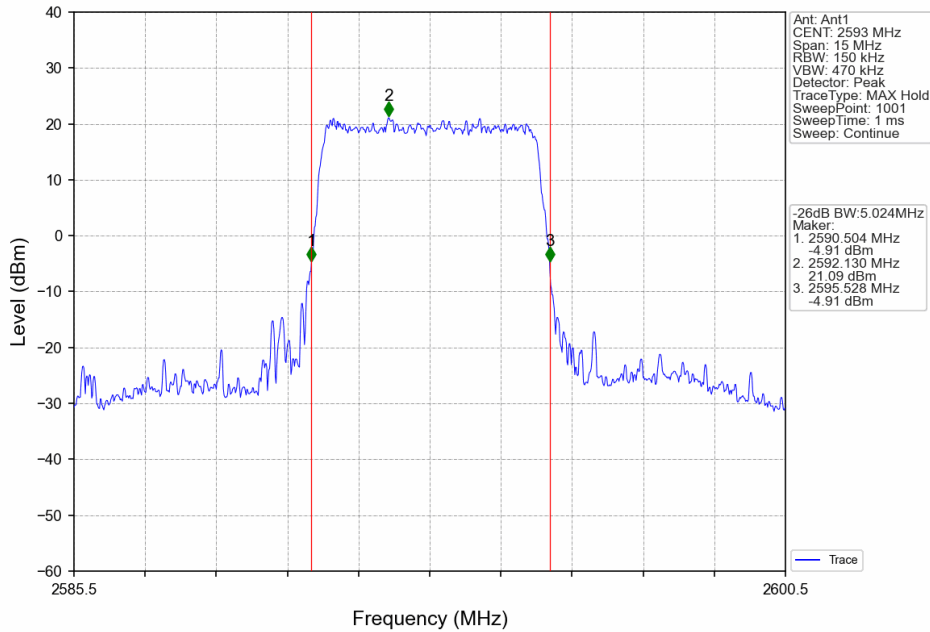


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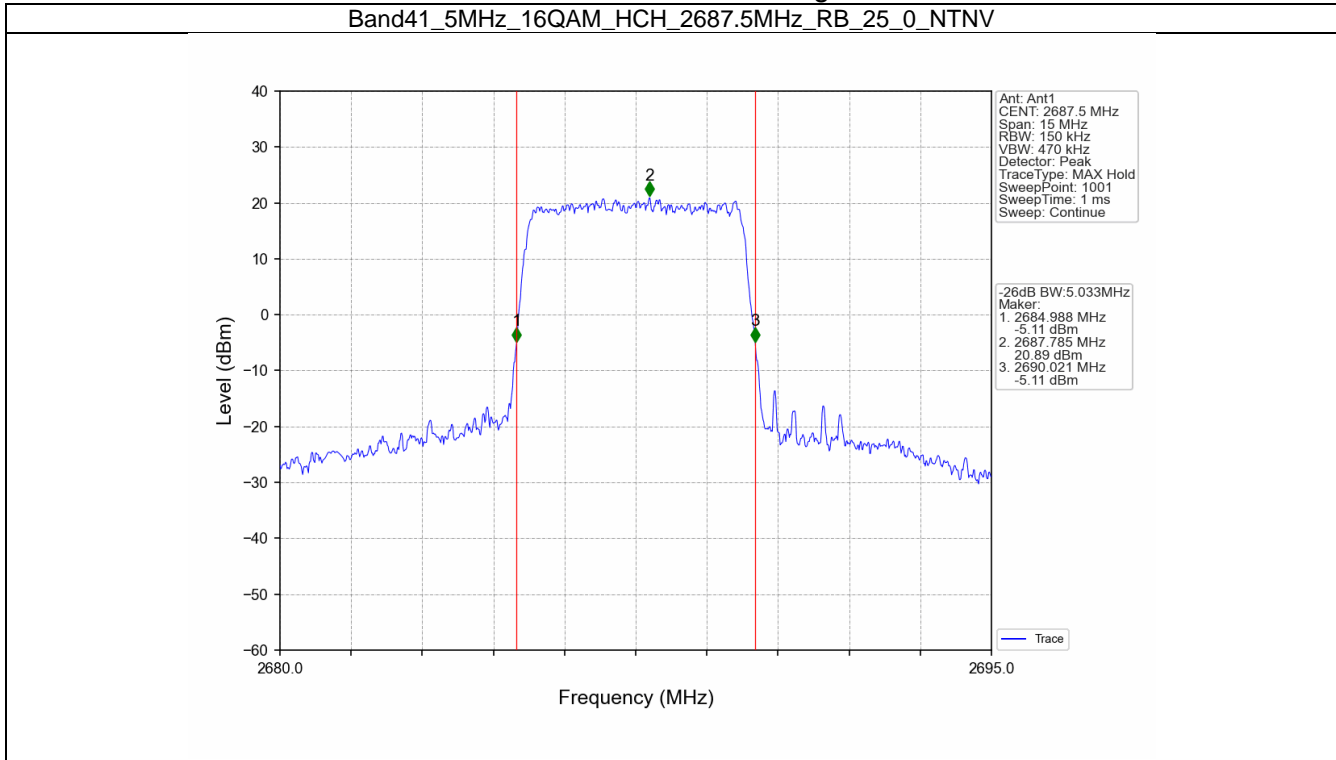


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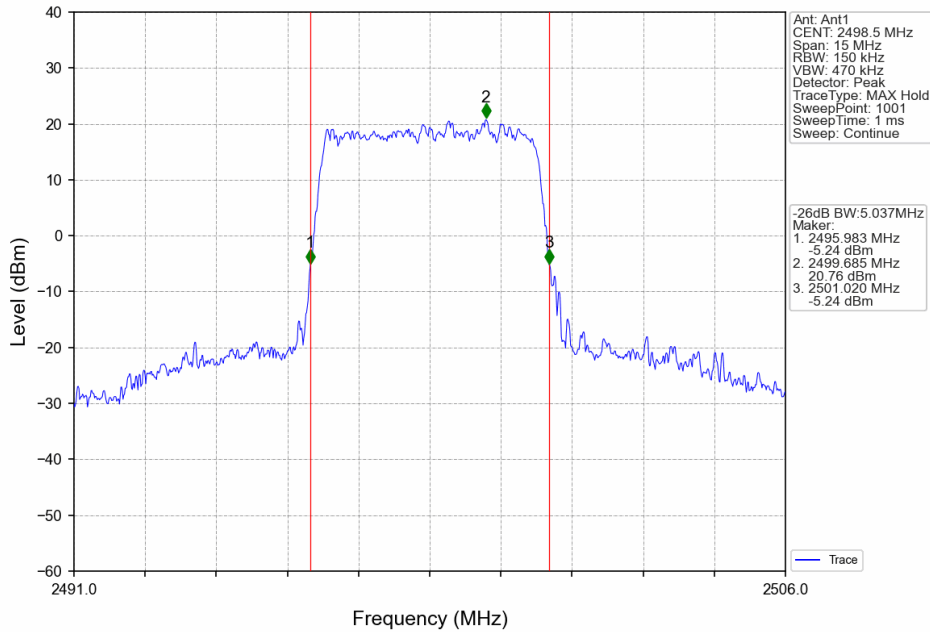


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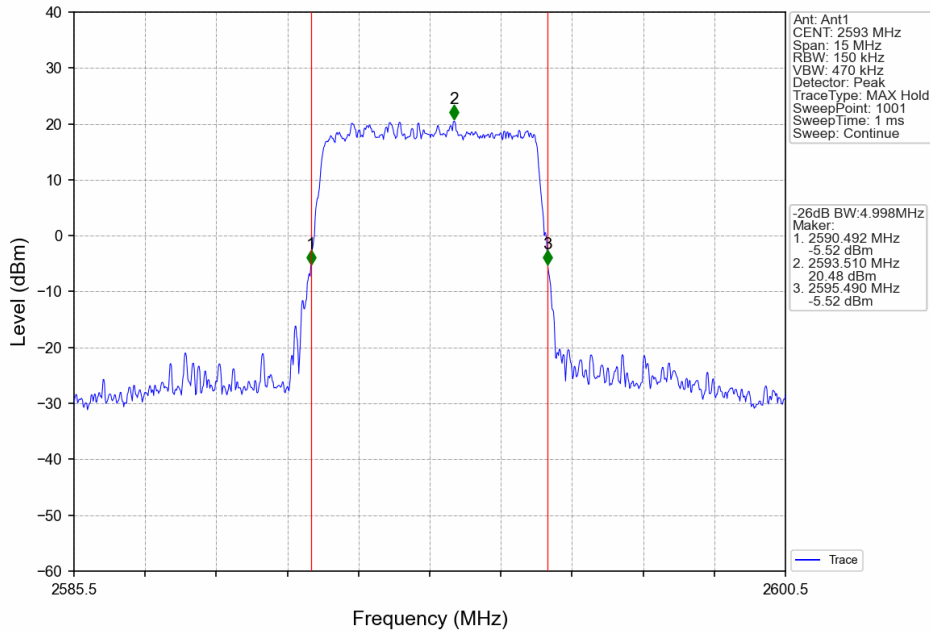


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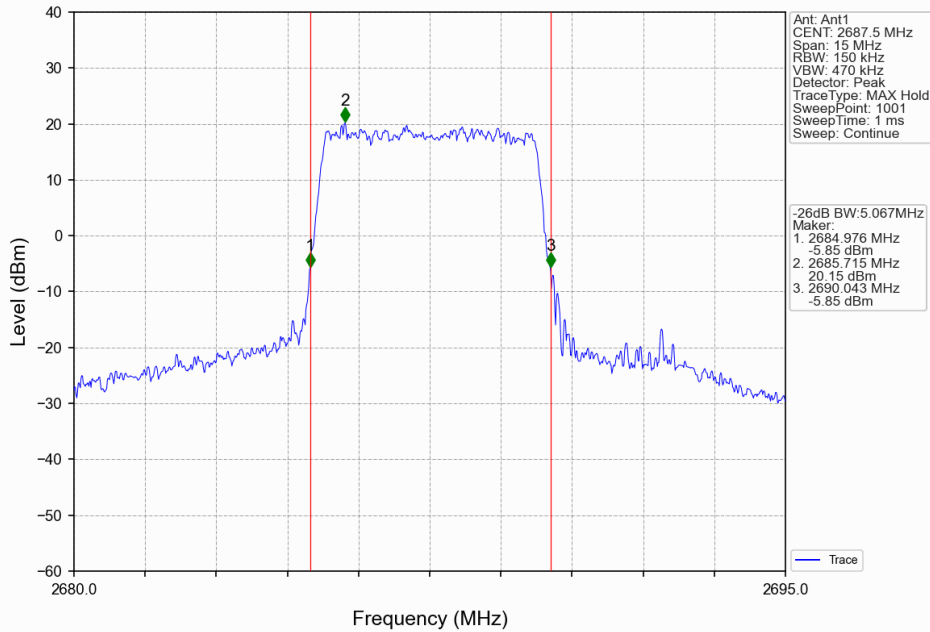


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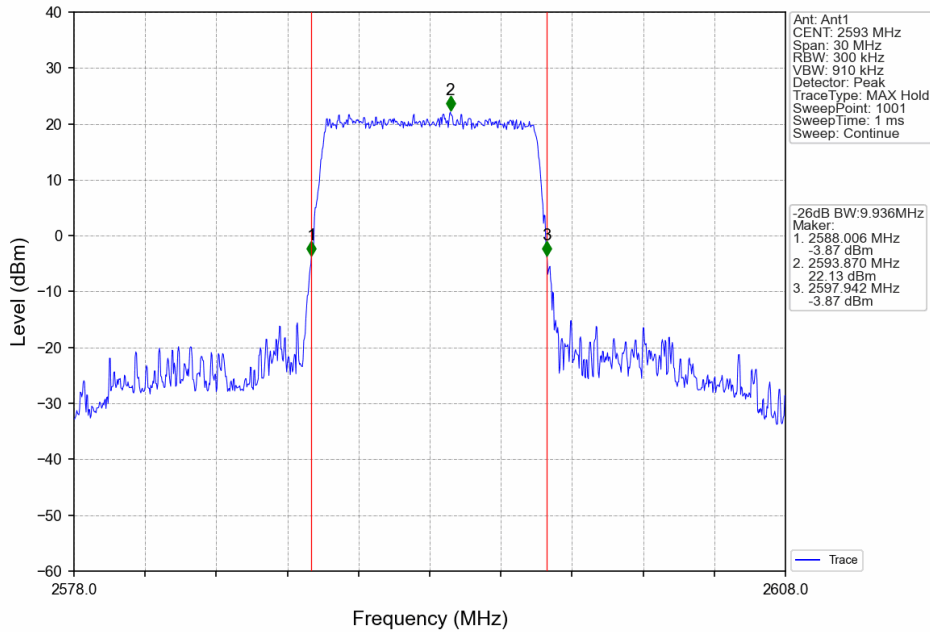


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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV

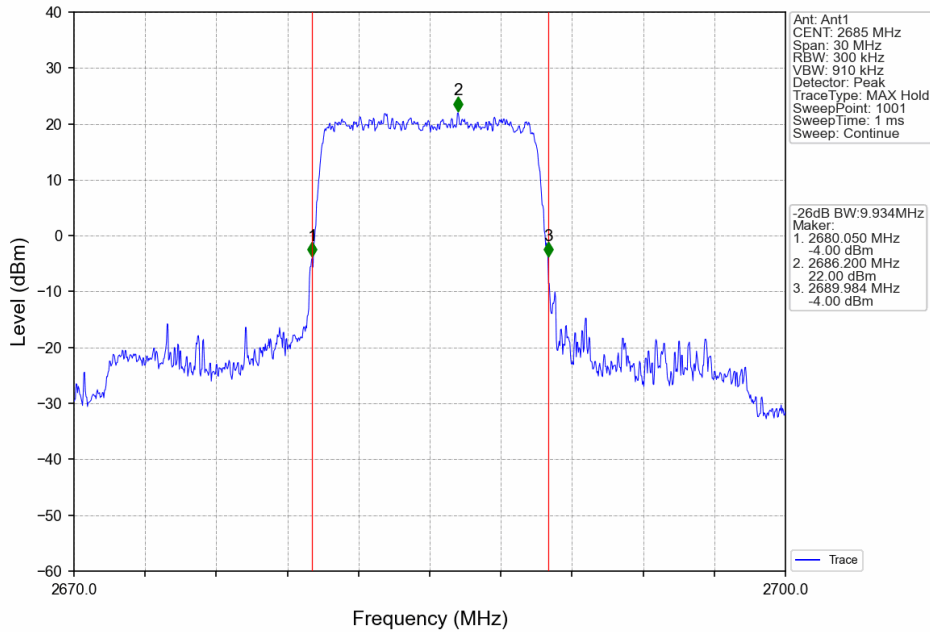


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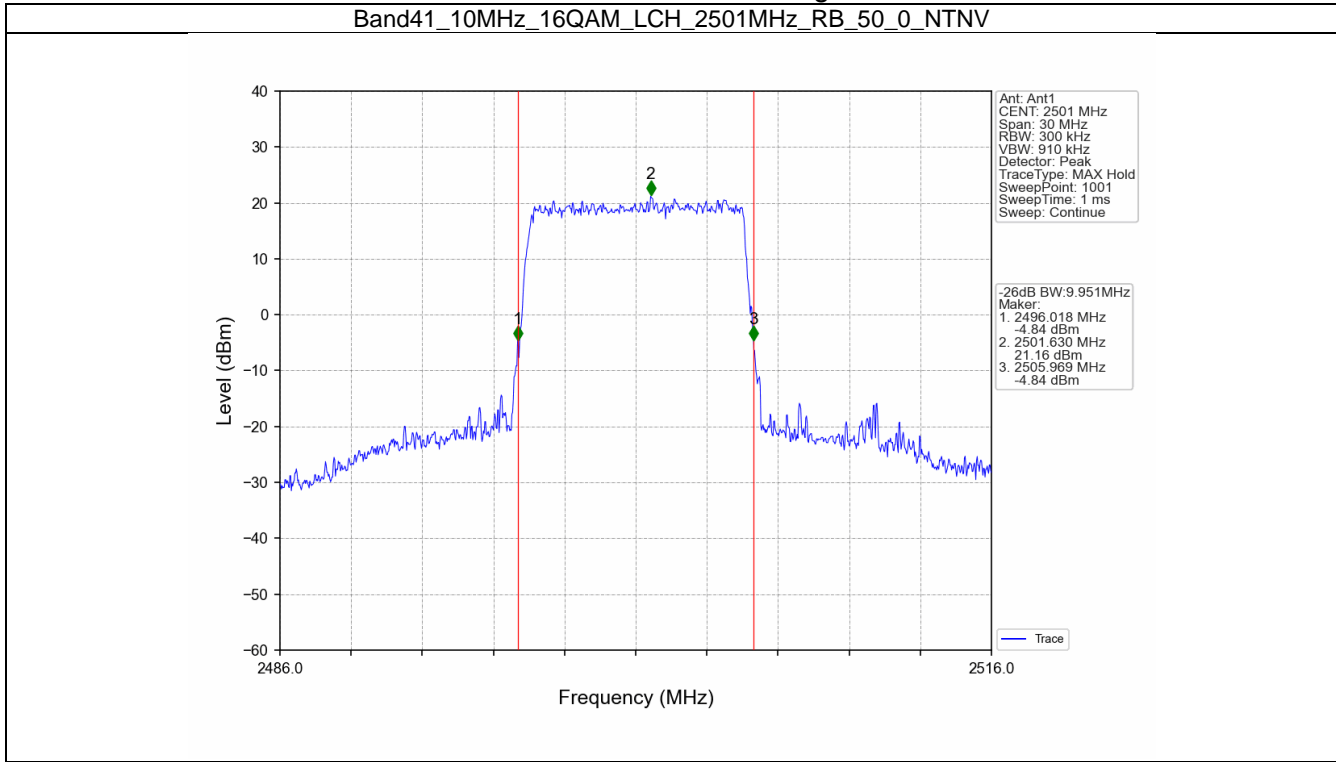
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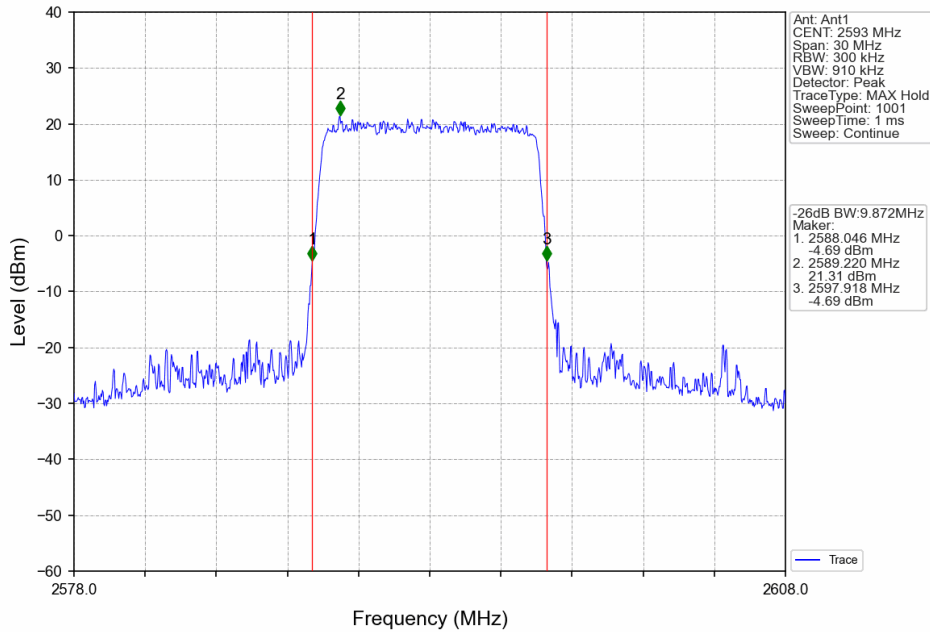


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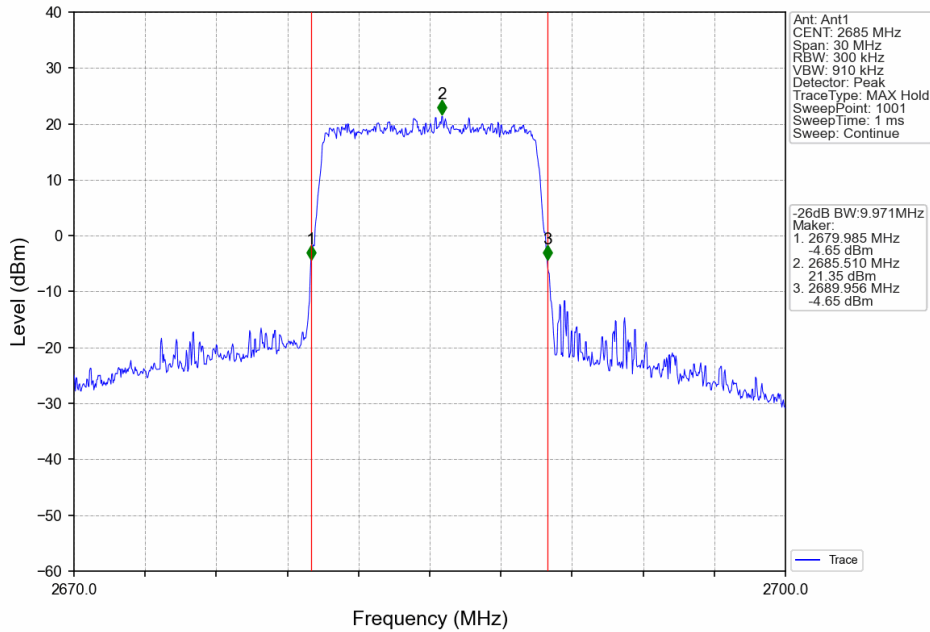


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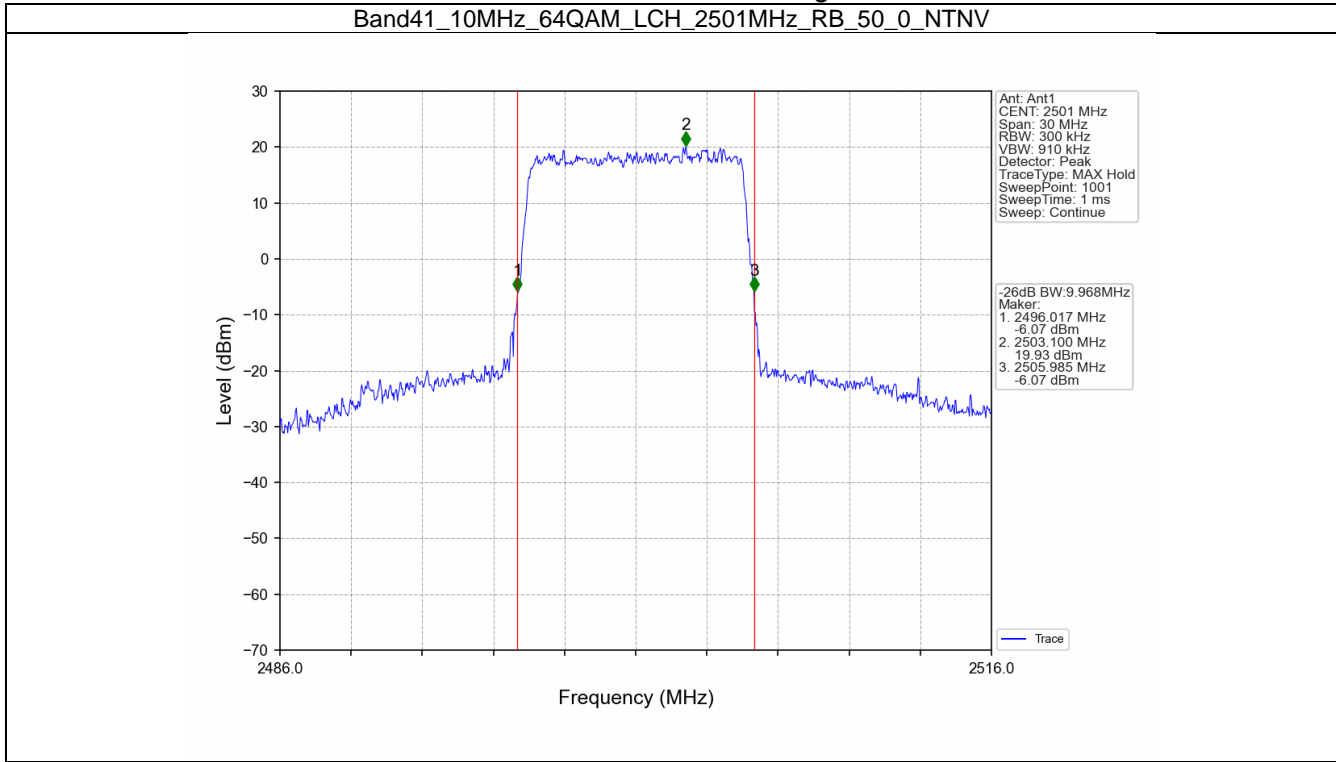
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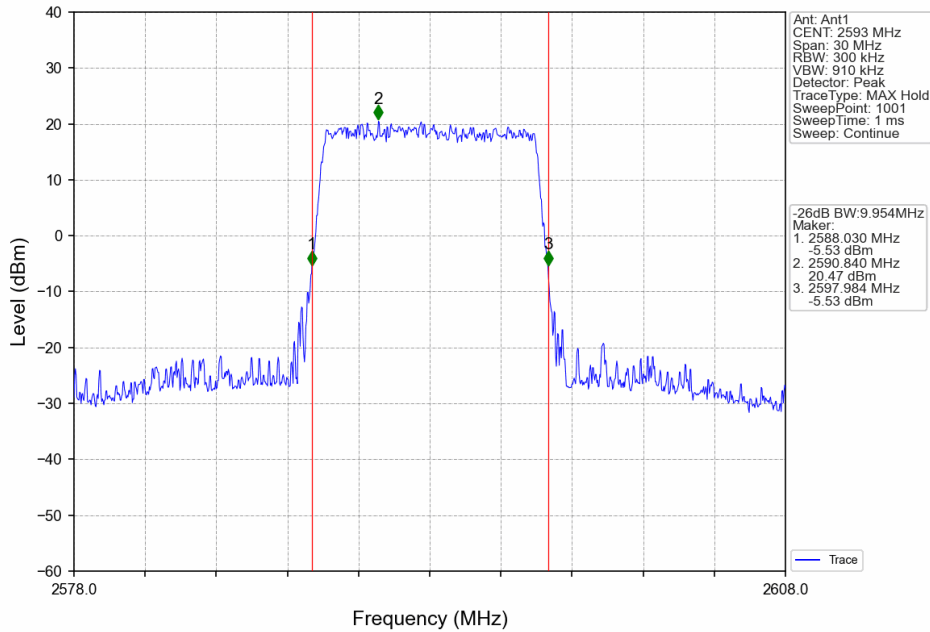


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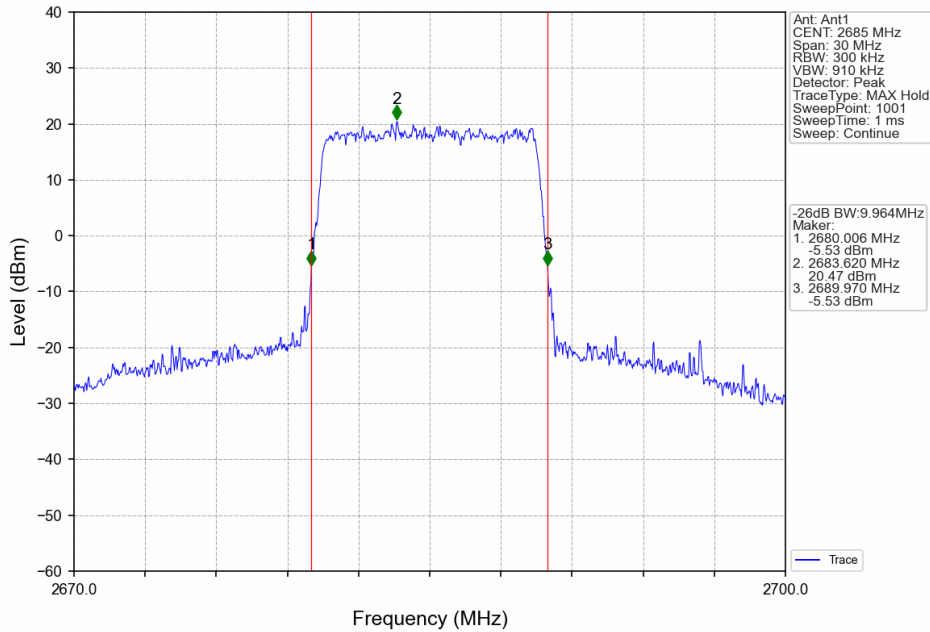


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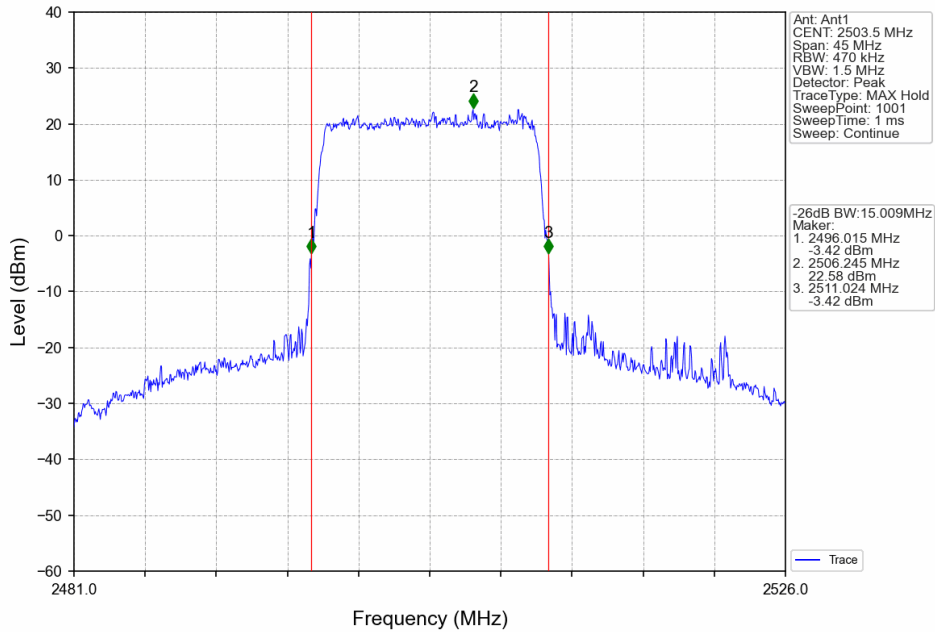


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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV

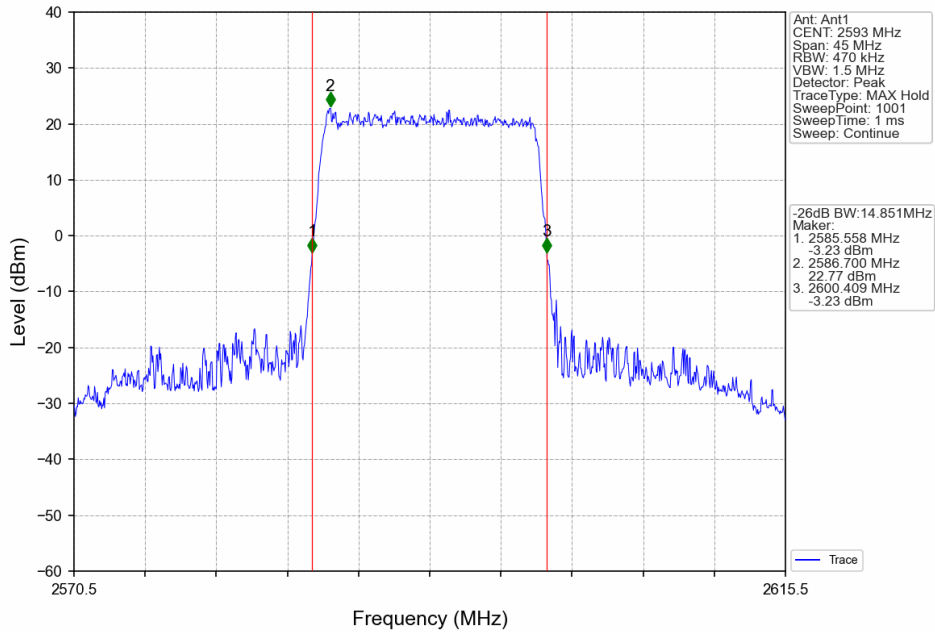


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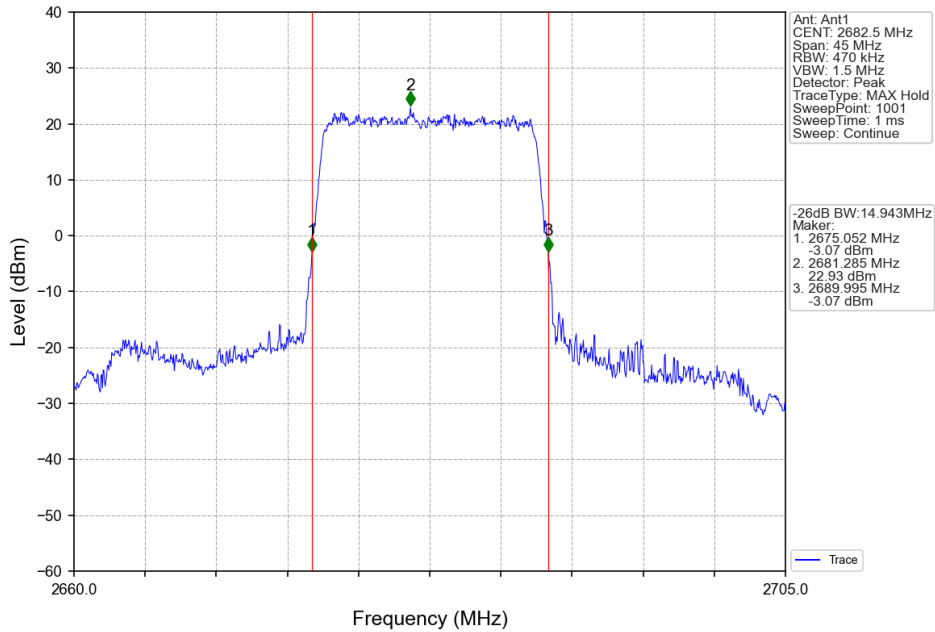


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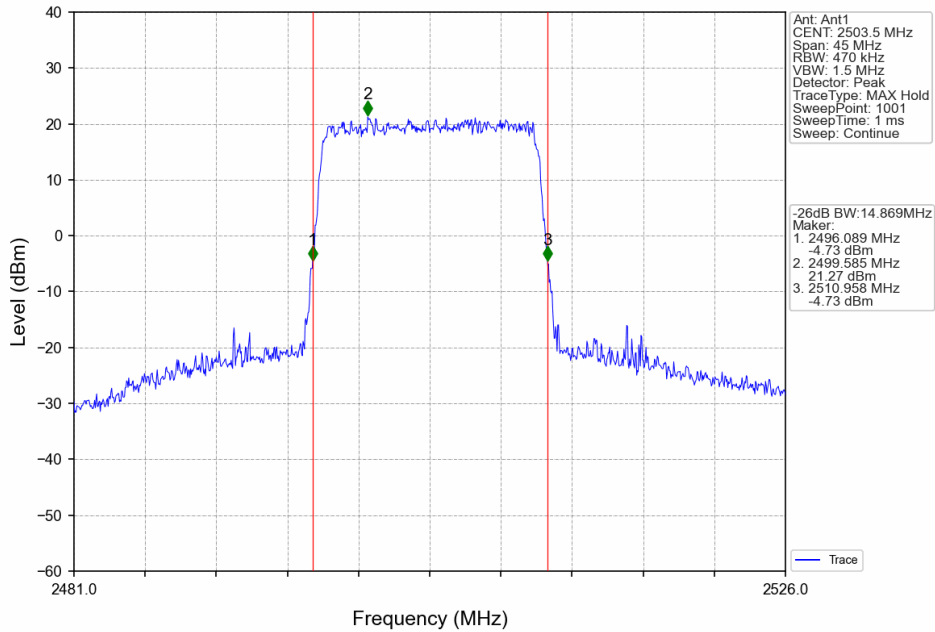


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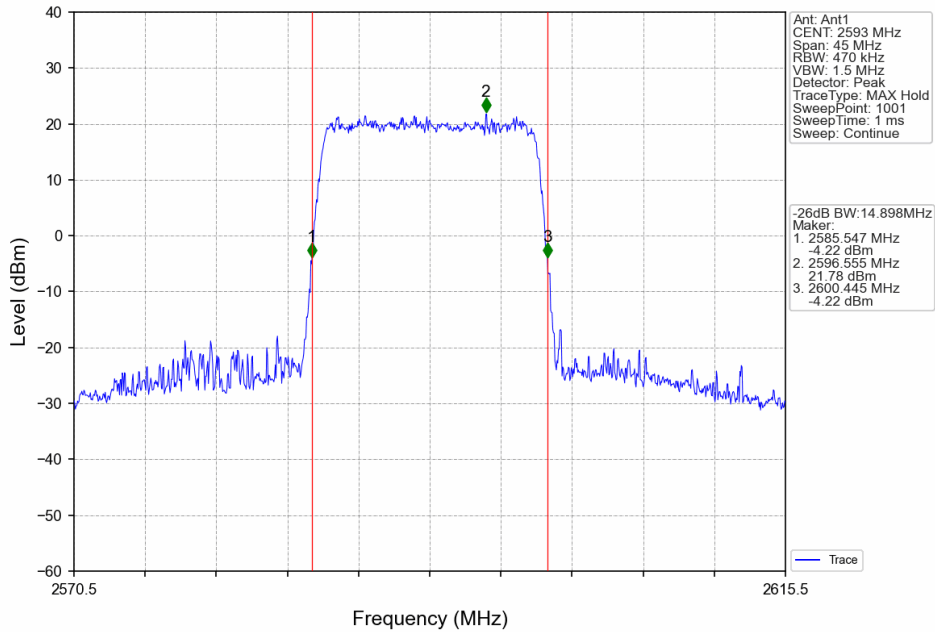


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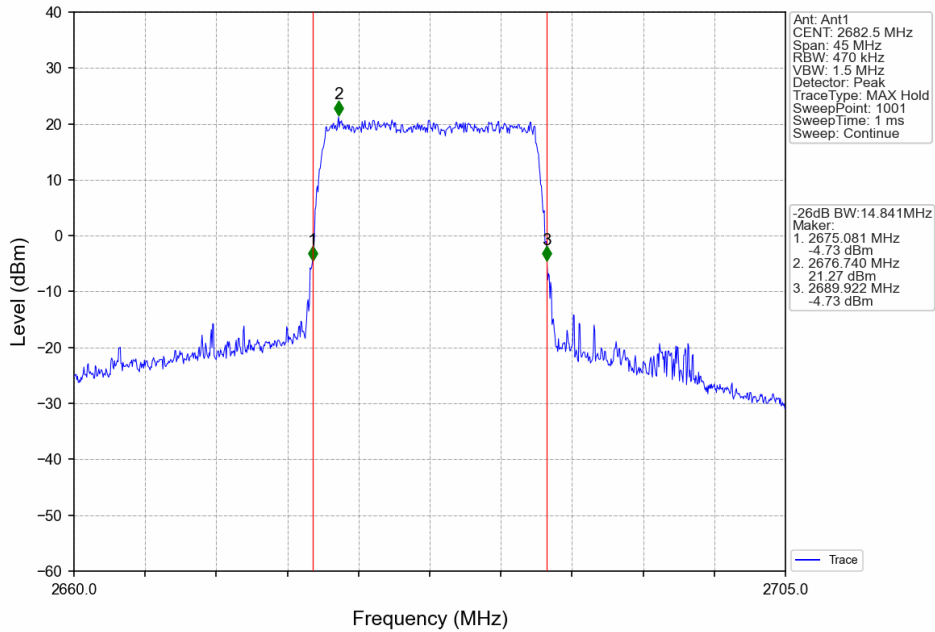


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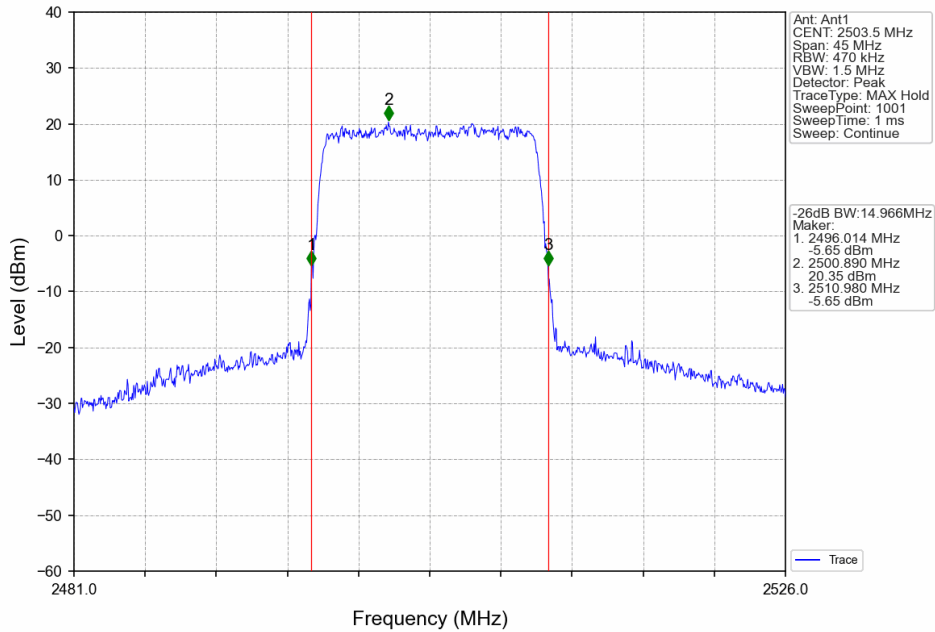


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Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV

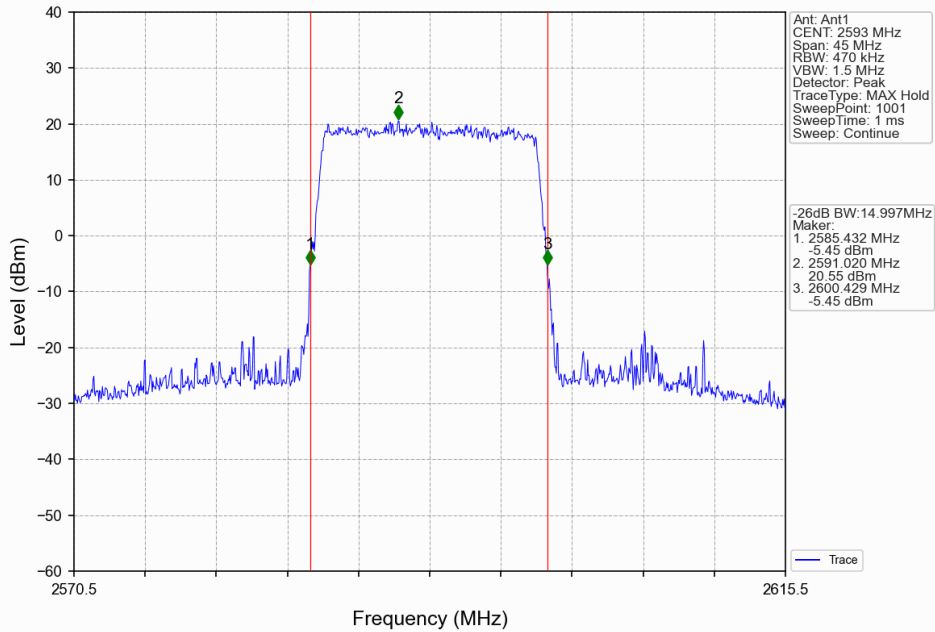


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Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV

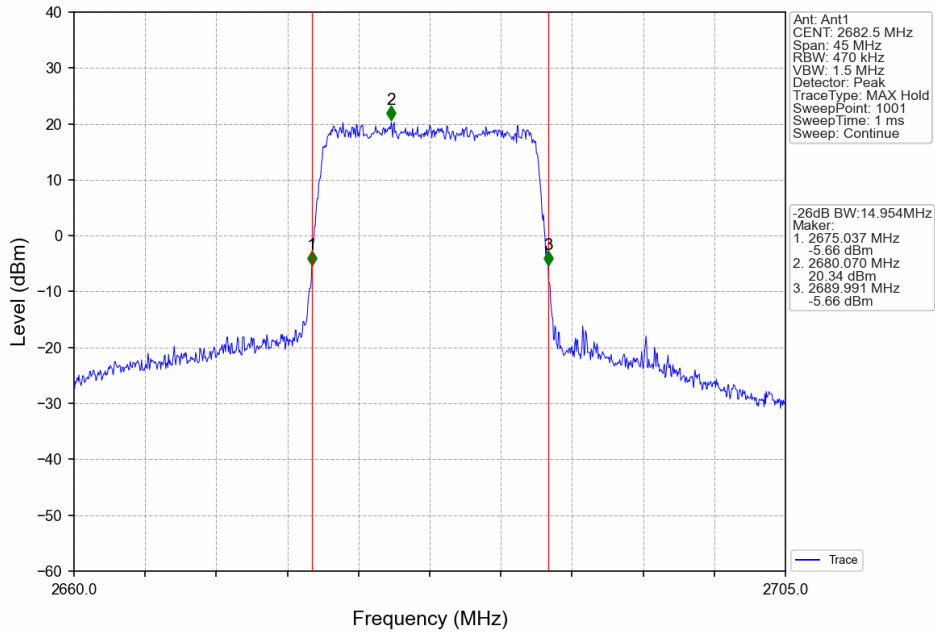


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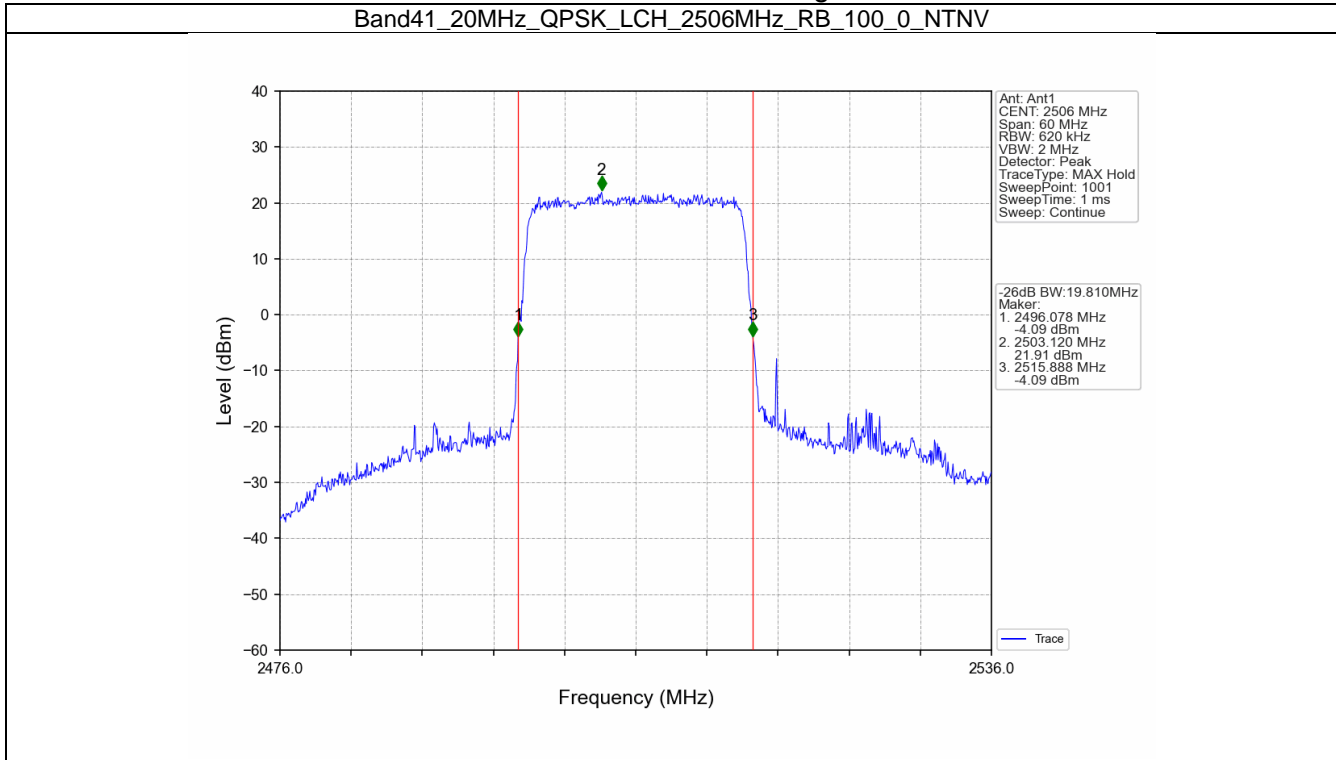
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



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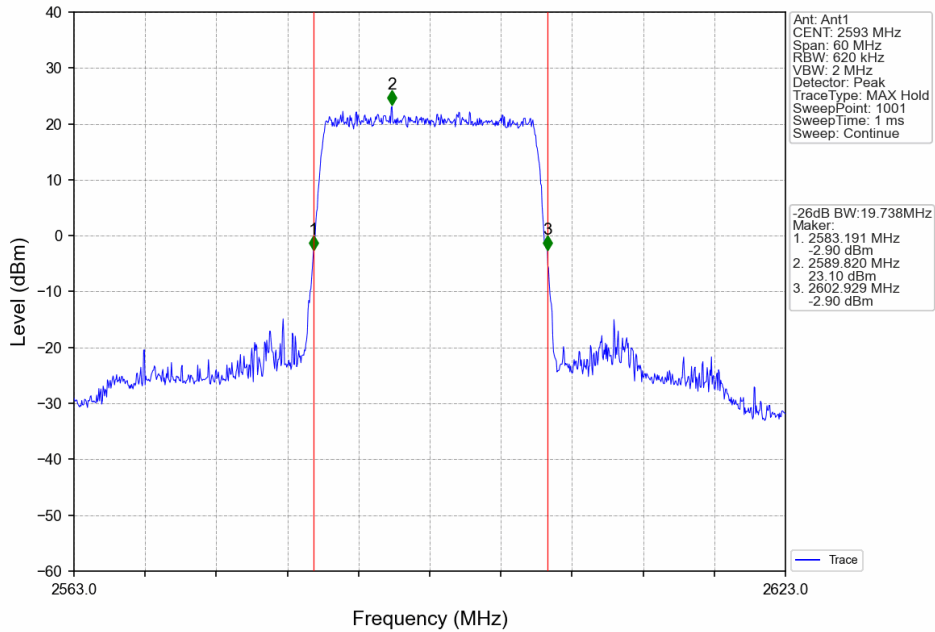


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Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV

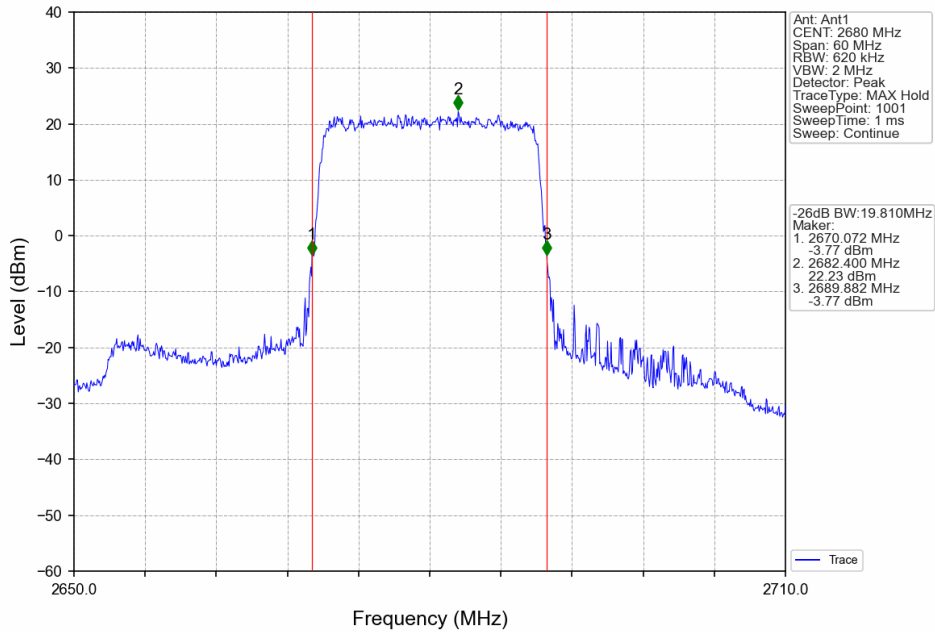


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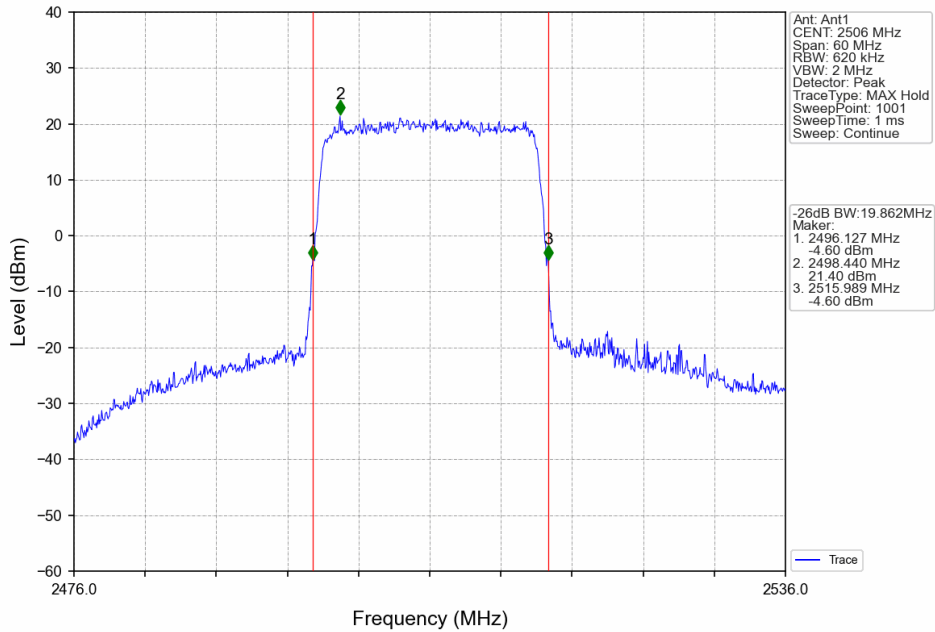


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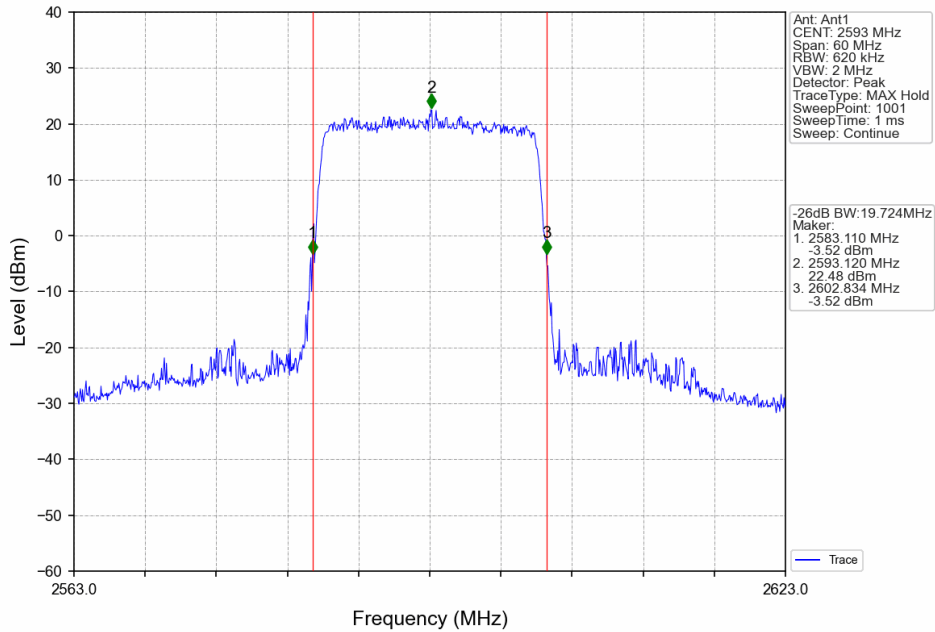


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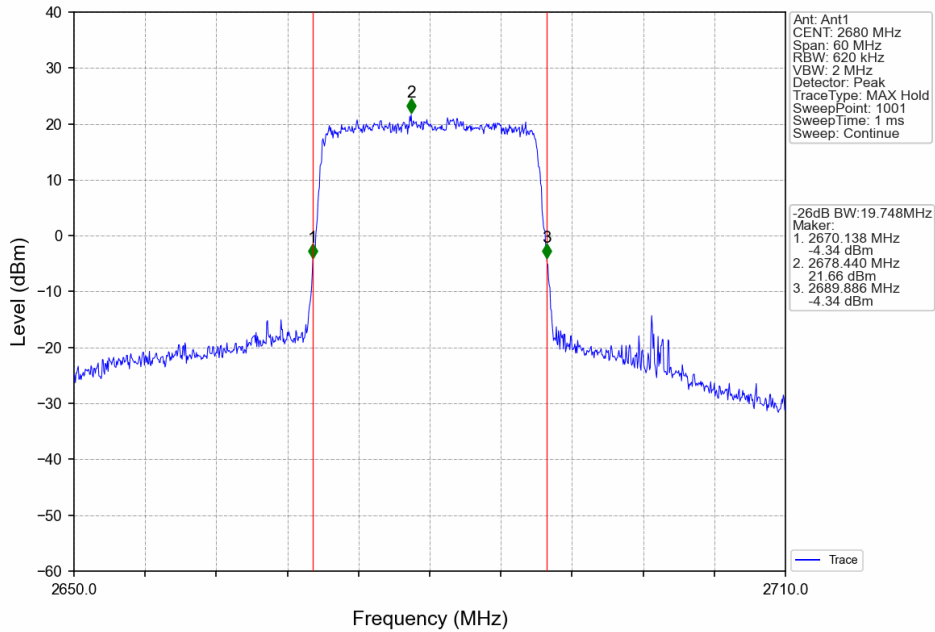


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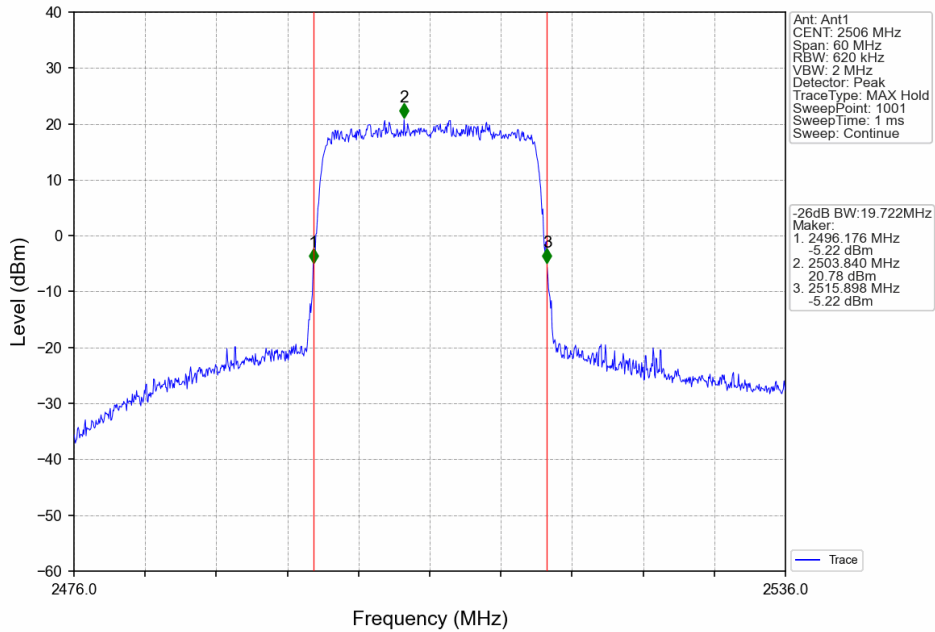


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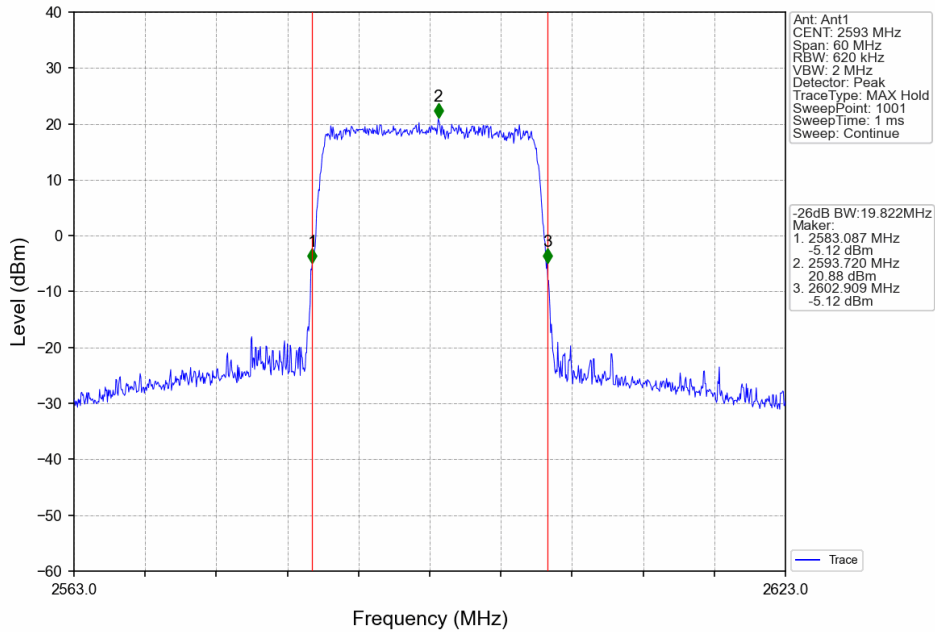


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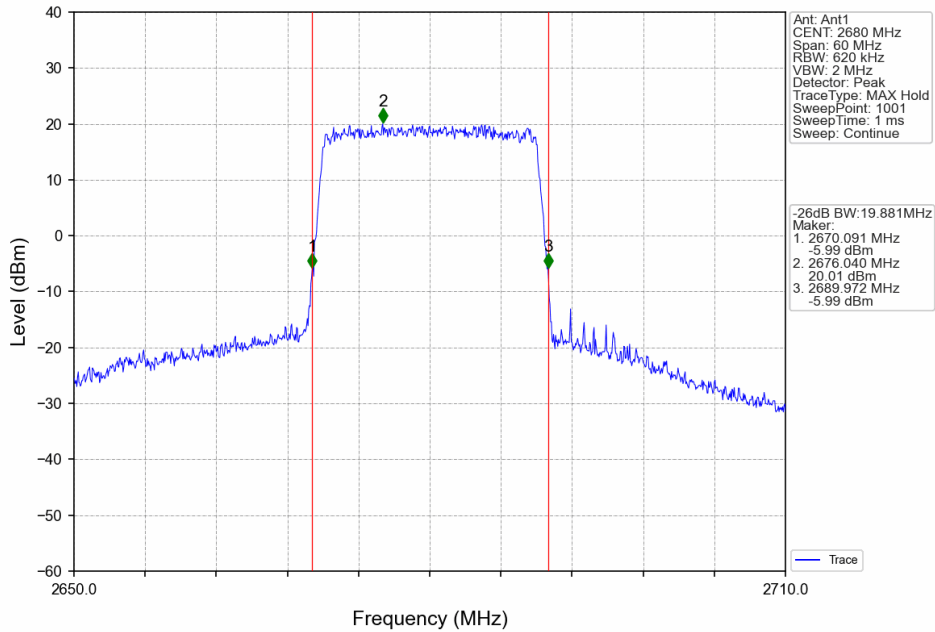


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Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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3. Peak-Average Ratio

3.1 B41_5MHz

3.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.38	<=13	Pass
	2593	25	0	7.65	<=13	Pass
	2687.5	25	0	7.46	<=13	Pass
16QAM	2498.5	25	0	8.02	<=13	Pass
	2593	25	0	8.08	<=13	Pass
	2687.5	25	0	8.32	<=13	Pass
64QAM	2498.5	25	0	8.55	<=13	Pass
	2593	25	0	8.67	<=13	Pass
	2687.5	25	0	8.74	<=13	Pass

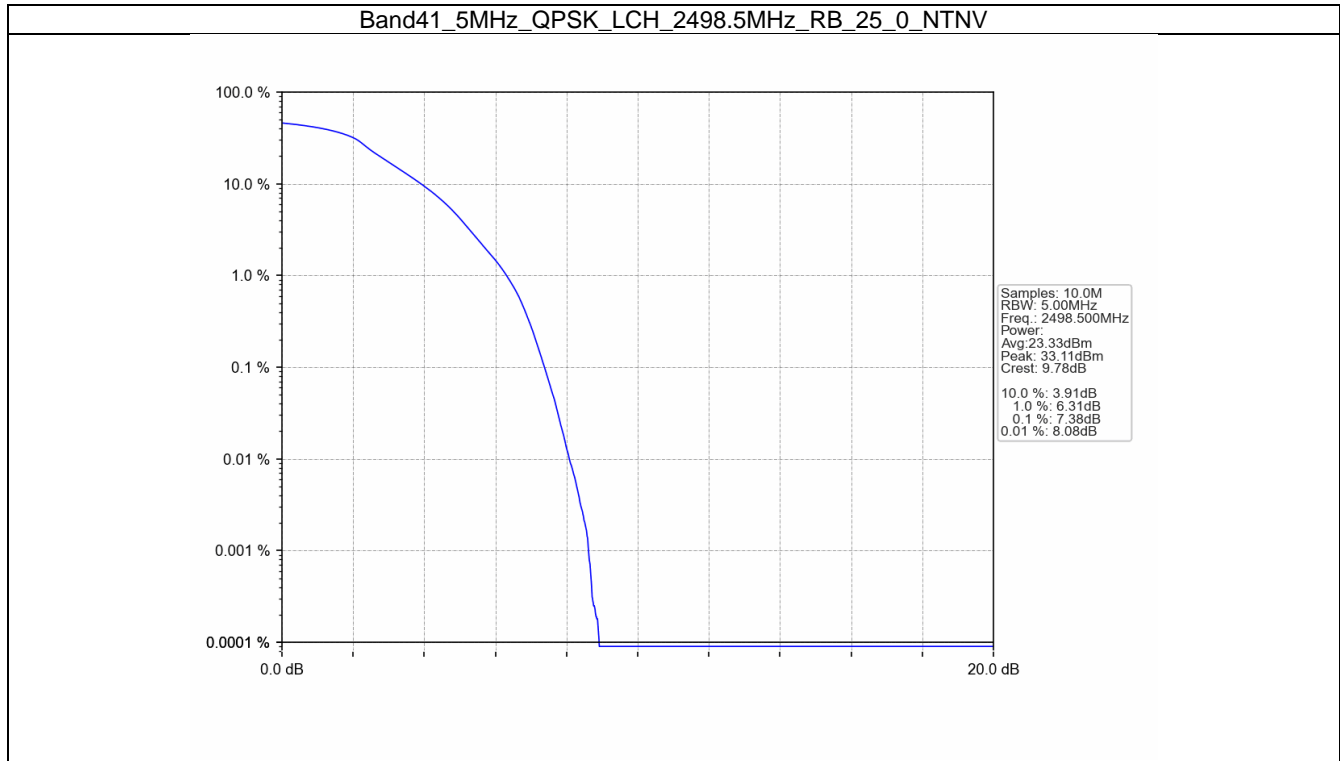


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3.1.2 Test Graph



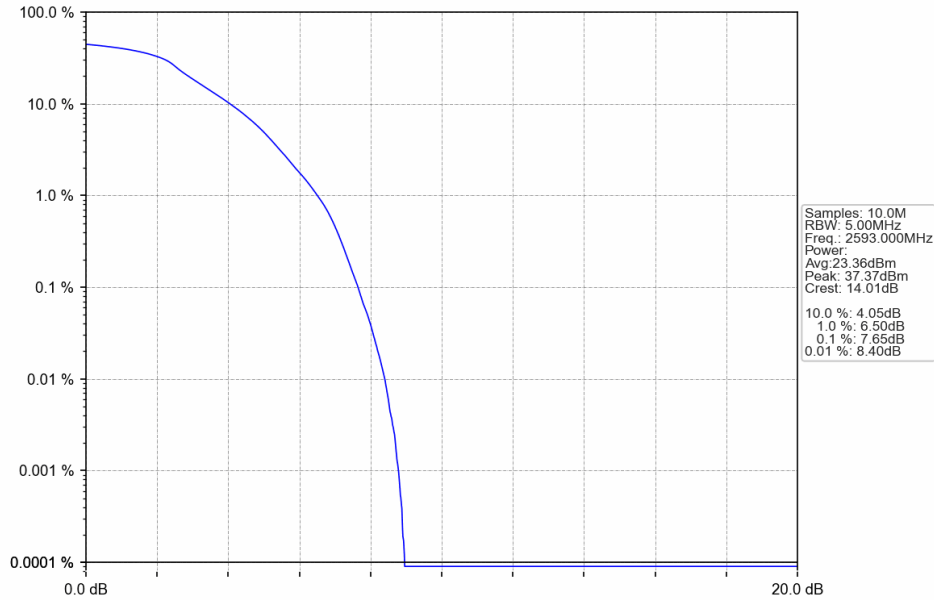
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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



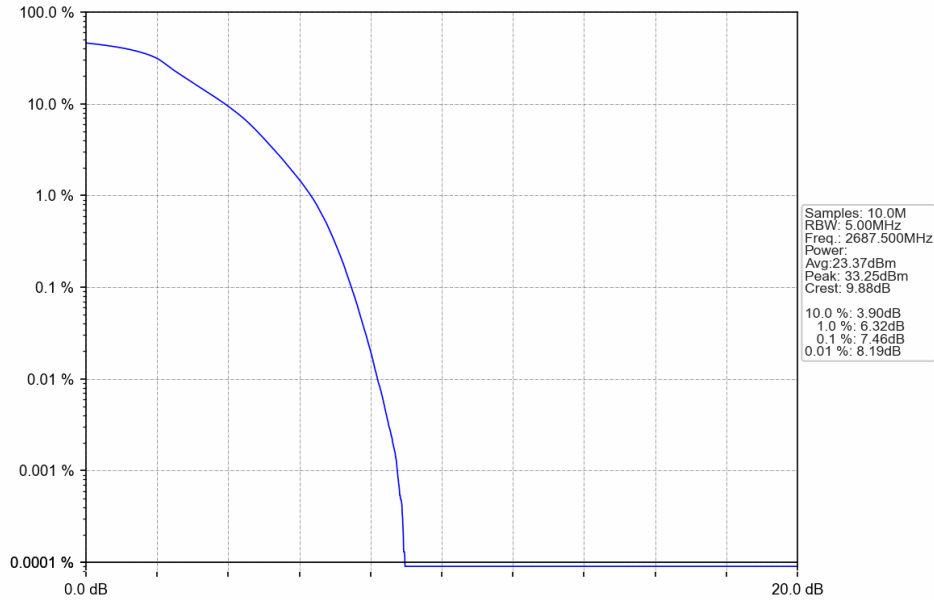
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV

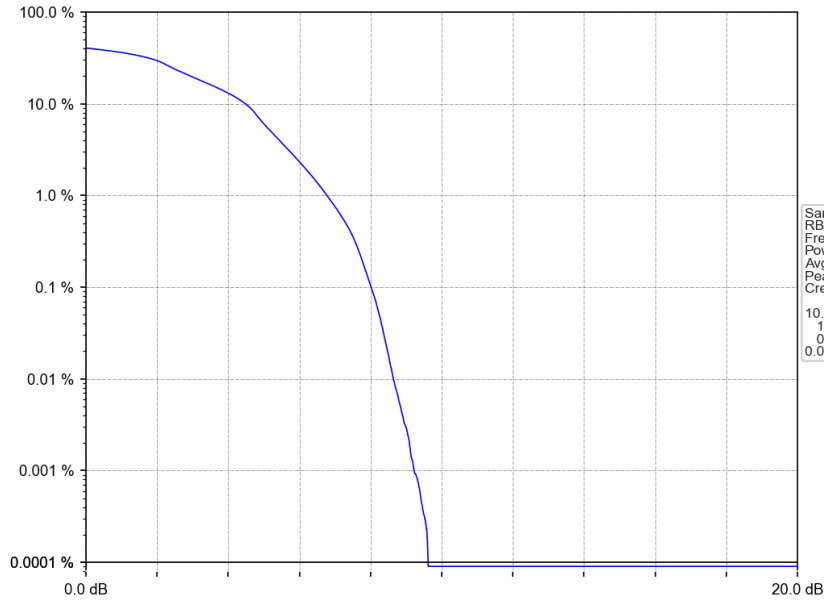


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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 2498.500MHz
 Power:
 Avg: 22.41dBm
 Peak: 32.72dBm
 Crest: 10.31dB

10.0 %: 4.48dB
 1.0 %: 6.77dB
 0.1 %: 8.02dB
 0.01 %: 8.64dB



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