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Appendix B.8

LTE Band 5



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP_Ant4

1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	824.7	1	0	24.40	-5.10	17.15	<=38.45	Pass		
			2	24.52	-5.10	17.27	<=38.45	Pass		
			5	24.37	-5.10	17.12	<=38.45	Pass		
		3	0	24.41	-5.10	17.16	<=38.45	Pass		
			2	24.43	-5.10	17.18	<=38.45	Pass		
			3	24.43	-5.10	17.18	<=38.45	Pass		
		6	0	23.41	-5.10	16.16	<=38.45	Pass		
			0	24.39	-5.10	17.14	<=38.45	Pass		
			2	24.52	-5.10	17.27	<=38.45	Pass		
	836.5	1	5	24.39	-5.10	17.14	<=38.45	Pass		
			0	24.46	-5.10	17.21	<=38.45	Pass		
			2	24.50	-5.10	17.25	<=38.45	Pass		
		3	3	24.49	-5.10	17.24	<=38.45	Pass		
			0	23.47	-5.10	16.22	<=38.45	Pass		
			0	24.50	-5.10	17.25	<=38.45	Pass		
		848.3	1	2	24.62	-5.10	17.37	<=38.45	Pass	
				5	24.48	-5.10	17.23	<=38.45	Pass	
				0	24.55	-5.10	17.30	<=38.45	Pass	
	3		2	24.59	-5.10	17.34	<=38.45	Pass		
			3	24.57	-5.10	17.32	<=38.45	Pass		
			0	23.56	-5.10	16.31	<=38.45	Pass		
	16QAM		824.7	1	0	23.27	-5.10	16.02	<=38.45	Pass
					2	23.41	-5.10	16.16	<=38.45	Pass
					5	23.25	-5.10	16.00	<=38.45	Pass
3		0		23.21	-5.10	15.96	<=38.45	Pass		
		2		23.21	-5.10	15.96	<=38.45	Pass		
		3		23.18	-5.10	15.93	<=38.45	Pass		
6		0		22.49	-5.10	15.24	<=38.45	Pass		
		0		23.53	-5.10	16.28	<=38.45	Pass		
		2		23.67	-5.10	16.42	<=38.45	Pass		
836.5		1	5	23.51	-5.10	16.26	<=38.45	Pass		
			0	23.35	-5.10	16.10	<=38.45	Pass		
			2	23.38	-5.10	16.13	<=38.45	Pass		
		3	3	23.34	-5.10	16.09	<=38.45	Pass		
			0	22.44	-5.10	15.19	<=38.45	Pass		
			0	23.64	-5.10	16.39	<=38.45	Pass		
		6	2	23.83	-5.10	16.58	<=38.45	Pass		



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			5	23.68	-5.10	16.43	<=38.45	Pass
		3	0	23.43	-5.10	16.18	<=38.45	Pass
			2	23.47	-5.10	16.22	<=38.45	Pass
			3	23.47	-5.10	16.22	<=38.45	Pass
		6	0	22.68	-5.10	15.43	<=38.45	Pass
64QAM	824.7	1	0	22.68	-5.10	15.43	<=38.45	Pass
			2	22.81	-5.10	15.56	<=38.45	Pass
			5	22.62	-5.10	15.37	<=38.45	Pass
		3	0	22.53	-5.10	15.28	<=38.45	Pass
			2	22.54	-5.10	15.29	<=38.45	Pass
			3	22.53	-5.10	15.28	<=38.45	Pass
	6	0	21.42	-5.10	14.17	<=38.45	Pass	
	836.5	1	0	22.40	-5.10	15.15	<=38.45	Pass
			2	22.59	-5.10	15.34	<=38.45	Pass
			5	22.43	-5.10	15.18	<=38.45	Pass
		3	0	22.39	-5.10	15.14	<=38.45	Pass
			2	22.39	-5.10	15.14	<=38.45	Pass
			3	22.39	-5.10	15.14	<=38.45	Pass
	6	0	21.39	-5.10	14.14	<=38.45	Pass	
	848.3	1	0	22.93	-5.10	15.68	<=38.45	Pass
			2	23.08	-5.10	15.83	<=38.45	Pass
			5	22.95	-5.10	15.70	<=38.45	Pass
		3	0	22.59	-5.10	15.34	<=38.45	Pass
			2	22.65	-5.10	15.40	<=38.45	Pass
			3	22.65	-5.10	15.40	<=38.45	Pass
	6	0	21.44	-5.10	14.19	<=38.45	Pass	



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1.2 B5_3MHz_ERP

1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	825.5	1	0	24.38	-5.10	17.13	<=38.45	Pass		
			7	24.66	-5.10	17.41	<=38.45	Pass		
			14	24.38	-5.10	17.13	<=38.45	Pass		
		8	0	23.40	-5.10	16.15	<=38.45	Pass		
			4	23.42	-5.10	16.17	<=38.45	Pass		
			7	23.39	-5.10	16.14	<=38.45	Pass		
		15	0	23.36	-5.10	16.11	<=38.45	Pass		
		836.5	1	0	24.51	-5.10	17.26	<=38.45	Pass	
				7	24.69	-5.10	17.44	<=38.45	Pass	
	14			24.50	-5.10	17.25	<=38.45	Pass		
	8		0	23.48	-5.10	16.23	<=38.45	Pass		
			4	23.52	-5.10	16.27	<=38.45	Pass		
			7	23.48	-5.10	16.23	<=38.45	Pass		
	15		0	23.44	-5.10	16.19	<=38.45	Pass		
	847.5		1	0	24.52	-5.10	17.27	<=38.45	Pass	
				7	24.73	-5.10	17.48	<=38.45	Pass	
		14		24.53	-5.10	17.28	<=38.45	Pass		
		8	0	23.47	-5.10	16.22	<=38.45	Pass		
			4	23.51	-5.10	16.26	<=38.45	Pass		
			7	23.47	-5.10	16.22	<=38.45	Pass		
		15	0	23.44	-5.10	16.19	<=38.45	Pass		
		16QAM	825.5	1	0	23.57	-5.10	16.32	<=38.45	Pass
					7	23.77	-5.10	16.52	<=38.45	Pass
	14				23.51	-5.10	16.26	<=38.45	Pass	
8	0			22.54	-5.10	15.29	<=38.45	Pass		
	4			22.55	-5.10	15.30	<=38.45	Pass		
	7			22.51	-5.10	15.26	<=38.45	Pass		
15	0			22.44	-5.10	15.19	<=38.45	Pass		
836.5	1			0	23.32	-5.10	16.07	<=38.45	Pass	
				7	23.60	-5.10	16.35	<=38.45	Pass	
			14	23.38	-5.10	16.13	<=38.45	Pass		
	8		0	22.56	-5.10	15.31	<=38.45	Pass		
			4	22.62	-5.10	15.37	<=38.45	Pass		
			7	22.54	-5.10	15.29	<=38.45	Pass		
	15		0	22.44	-5.10	15.19	<=38.45	Pass		
	847.5		1	0	23.36	-5.10	16.11	<=38.45	Pass	
				7	23.54	-5.10	16.29	<=38.45	Pass	
14				23.43	-5.10	16.18	<=38.45	Pass		



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64QAM	825.5	8	0	22.53	-5.10	15.28	<=38.45	Pass	
			4	22.65	-5.10	15.40	<=38.45	Pass	
			7	22.55	-5.10	15.30	<=38.45	Pass	
		15	0	22.43	-5.10	15.18	<=38.45	Pass	
			1	0	22.39	-5.10	15.14	<=38.45	Pass
				7	22.56	-5.10	15.31	<=38.45	Pass
	14	22.37		-5.10	15.12	<=38.45	Pass		
	836.5	8	0	21.43	-5.10	14.18	<=38.45	Pass	
			4	21.45	-5.10	14.20	<=38.45	Pass	
			7	21.39	-5.10	14.14	<=38.45	Pass	
		15	0	21.44	-5.10	14.19	<=38.45	Pass	
			1	0	22.74	-5.10	15.49	<=38.45	Pass
				7	22.96	-5.10	15.71	<=38.45	Pass
	14	22.76		-5.10	15.51	<=38.45	Pass		
	847.5	8	0	21.44	-5.10	14.19	<=38.45	Pass	
			4	21.51	-5.10	14.26	<=38.45	Pass	
			7	21.43	-5.10	14.18	<=38.45	Pass	
		15	0	21.48	-5.10	14.23	<=38.45	Pass	
			1	0	22.75	-5.10	15.50	<=38.45	Pass
				7	22.99	-5.10	15.74	<=38.45	Pass
	14	22.85		-5.10	15.60	<=38.45	Pass		
847.5	8	0	21.48	-5.10	14.23	<=38.45	Pass		
		4	21.49	-5.10	14.24	<=38.45	Pass		
		7	21.44	-5.10	14.19	<=38.45	Pass		
	15	0	21.42	-5.10	14.17	<=38.45	Pass		



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1.3 B5_5MHz_ERP

1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	826.5	1	0	24.31	-5.10	17.06	<=38.45	Pass	
			13	24.43	-5.10	17.18	<=38.45	Pass	
			24	24.29	-5.10	17.04	<=38.45	Pass	
		12	0	23.33	-5.10	16.08	<=38.45	Pass	
			6	23.36	-5.10	16.11	<=38.45	Pass	
			13	23.33	-5.10	16.08	<=38.45	Pass	
		25	0	23.32	-5.10	16.07	<=38.45	Pass	
		836.5	1	0	24.41	-5.10	17.16	<=38.45	Pass
				13	24.53	-5.10	17.28	<=38.45	Pass
	24			24.43	-5.10	17.18	<=38.45	Pass	
	12		0	23.41	-5.10	16.16	<=38.45	Pass	
			6	23.48	-5.10	16.23	<=38.45	Pass	
			13	23.42	-5.10	16.17	<=38.45	Pass	
	25		0	23.41	-5.10	16.16	<=38.45	Pass	
	846.5		1	0	24.45	-5.10	17.20	<=38.45	Pass
				13	24.57	-5.10	17.32	<=38.45	Pass
		24		24.47	-5.10	17.22	<=38.45	Pass	
		12	0	23.51	-5.10	16.26	<=38.45	Pass	
			6	23.54	-5.10	16.29	<=38.45	Pass	
			13	23.43	-5.10	16.18	<=38.45	Pass	
	25	0	23.45	-5.10	16.20	<=38.45	Pass		
	16QAM	826.5	1	0	23.33	-5.10	16.08	<=38.45	Pass
				13	23.46	-5.10	16.21	<=38.45	Pass
				24	23.31	-5.10	16.06	<=38.45	Pass
12			0	22.35	-5.10	15.10	<=38.45	Pass	
			6	22.41	-5.10	15.16	<=38.45	Pass	
			13	22.37	-5.10	15.12	<=38.45	Pass	
25			0	22.38	-5.10	15.13	<=38.45	Pass	
836.5			1	0	23.48	-5.10	16.23	<=38.45	Pass
				13	23.58	-5.10	16.33	<=38.45	Pass
		24		23.49	-5.10	16.24	<=38.45	Pass	
		12	0	22.49	-5.10	15.24	<=38.45	Pass	
			6	22.55	-5.10	15.30	<=38.45	Pass	
			13	22.50	-5.10	15.25	<=38.45	Pass	
		25	0	22.55	-5.10	15.30	<=38.45	Pass	
		846.5	1	0	23.56	-5.10	16.31	<=38.45	Pass
				13	23.65	-5.10	16.40	<=38.45	Pass
24				23.60	-5.10	16.35	<=38.45	Pass	



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		12	0	22.57	-5.10	15.32	<=38.45	Pass	
			6	22.58	-5.10	15.33	<=38.45	Pass	
			13	22.49	-5.10	15.24	<=38.45	Pass	
		25	0	22.46	-5.10	15.21	<=38.45	Pass	
64QAM	826.5	1	0	22.24	-5.10	14.99	<=38.45	Pass	
			13	22.35	-5.10	15.10	<=38.45	Pass	
			24	22.26	-5.10	15.01	<=38.45	Pass	
		12	0	21.35	-5.10	14.10	<=38.45	Pass	
			6	21.38	-5.10	14.13	<=38.45	Pass	
			13	21.36	-5.10	14.11	<=38.45	Pass	
		25	0	21.32	-5.10	14.07	<=38.45	Pass	
		836.5	1	0	22.72	-5.10	15.47	<=38.45	Pass
				13	22.83	-5.10	15.58	<=38.45	Pass
	24			22.73	-5.10	15.48	<=38.45	Pass	
	12		0	21.44	-5.10	14.19	<=38.45	Pass	
			6	21.53	-5.10	14.28	<=38.45	Pass	
			13	21.45	-5.10	14.20	<=38.45	Pass	
	25		0	21.46	-5.10	14.21	<=38.45	Pass	
	846.5		1	0	22.99	-5.10	15.74	<=38.45	Pass
				13	23.10	-5.10	15.85	<=38.45	Pass
		24		23.01	-5.10	15.76	<=38.45	Pass	
		12	0	21.48	-5.10	14.23	<=38.45	Pass	
			6	21.53	-5.10	14.28	<=38.45	Pass	
			13	21.44	-5.10	14.19	<=38.45	Pass	
		25	0	21.42	-5.10	14.17	<=38.45	Pass	



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1.4 B5_10MHz_ERP

1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	829	1	0	24.29	-5.10	17.04	<=38.45	Pass	
			25	24.35	-5.10	17.10	<=38.45	Pass	
			49	24.30	-5.10	17.05	<=38.45	Pass	
		25	0	23.33	-5.10	16.08	<=38.45	Pass	
			13	23.31	-5.10	16.06	<=38.45	Pass	
			25	23.39	-5.10	16.14	<=38.45	Pass	
		50	0	23.31	-5.10	16.06	<=38.45	Pass	
		836.5	1	0	24.42	-5.10	17.17	<=38.45	Pass
				25	24.50	-5.10	17.25	<=38.45	Pass
	49			24.48	-5.10	17.23	<=38.45	Pass	
	25		0	23.42	-5.10	16.17	<=38.45	Pass	
			13	23.44	-5.10	16.19	<=38.45	Pass	
			25	23.42	-5.10	16.17	<=38.45	Pass	
	50		0	23.39	-5.10	16.14	<=38.45	Pass	
	844		1	0	24.40	-5.10	17.15	<=38.45	Pass
				25	24.56	-5.10	17.31	<=38.45	Pass
		49		24.50	-5.10	17.25	<=38.45	Pass	
		25	0	23.53	-5.10	16.28	<=38.45	Pass	
			13	23.53	-5.10	16.28	<=38.45	Pass	
			25	23.47	-5.10	16.22	<=38.45	Pass	
	50	0	23.46	-5.10	16.21	<=38.45	Pass		
	16QAM	829	1	0	23.44	-5.10	16.19	<=38.45	Pass
				25	23.53	-5.10	16.28	<=38.45	Pass
				49	23.46	-5.10	16.21	<=38.45	Pass
25			0	22.36	-5.10	15.11	<=38.45	Pass	
			13	22.37	-5.10	15.12	<=38.45	Pass	
			25	22.42	-5.10	15.17	<=38.45	Pass	
50			0	22.36	-5.10	15.11	<=38.45	Pass	
836.5			1	0	23.29	-5.10	16.04	<=38.45	Pass
				25	23.34	-5.10	16.09	<=38.45	Pass
		49		23.36	-5.10	16.11	<=38.45	Pass	
		25	0	22.50	-5.10	15.25	<=38.45	Pass	
			13	22.56	-5.10	15.31	<=38.45	Pass	
			25	22.53	-5.10	15.28	<=38.45	Pass	
		50	0	22.45	-5.10	15.20	<=38.45	Pass	
		844	1	0	23.56	-5.10	16.31	<=38.45	Pass
				25	23.66	-5.10	16.41	<=38.45	Pass
49				23.66	-5.10	16.41	<=38.45	Pass	



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		25	0	22.61	-5.10	15.36	<=38.45	Pass	
			13	22.60	-5.10	15.35	<=38.45	Pass	
			25	22.54	-5.10	15.29	<=38.45	Pass	
		50	0	22.54	-5.10	15.29	<=38.45	Pass	
64QAM	829	1	0	22.29	-5.10	15.04	<=38.45	Pass	
			25	22.34	-5.10	15.09	<=38.45	Pass	
			49	22.27	-5.10	15.02	<=38.45	Pass	
		25	0	21.33	-5.10	14.08	<=38.45	Pass	
			13	21.33	-5.10	14.08	<=38.45	Pass	
			25	21.37	-5.10	14.12	<=38.45	Pass	
		50	0	21.32	-5.10	14.07	<=38.45	Pass	
		836.5	1	0	22.70	-5.10	15.45	<=38.45	Pass
				25	22.82	-5.10	15.57	<=38.45	Pass
	49			22.75	-5.10	15.50	<=38.45	Pass	
	25		0	21.38	-5.10	14.13	<=38.45	Pass	
			13	21.42	-5.10	14.17	<=38.45	Pass	
			25	21.42	-5.10	14.17	<=38.45	Pass	
	50		0	21.38	-5.10	14.13	<=38.45	Pass	
	844		1	0	22.43	-5.10	15.18	<=38.45	Pass
				25	22.59	-5.10	15.34	<=38.45	Pass
		49		22.49	-5.10	15.24	<=38.45	Pass	
		25	0	21.50	-5.10	14.25	<=38.45	Pass	
			13	21.48	-5.10	14.23	<=38.45	Pass	
			25	21.40	-5.10	14.15	<=38.45	Pass	
		50	0	21.50	-5.10	14.25	<=38.45	Pass	



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2. Frequency Stability

2.1 B5_1.4MHz

2.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	824.7	6	0	20	3.6	-4.950	-0.0060	-2.5 to 2.5	Pass	
					3.84	-4.992	-0.0061	-2.5 to 2.5	Pass	
					4.3	-7.753	-0.0094	-2.5 to 2.5	Pass	
				-30	3.84	-7.854	-0.0095	-2.5 to 2.5	Pass	
					-20	3.84	-6.123	-0.0074	-2.5 to 2.5	Pass
						3.84	-8.497	-0.0103	-2.5 to 2.5	Pass
				0	3.84	-4.363	-0.0053	-2.5 to 2.5	Pass	
				10	3.84	-3.691	-0.0045	-2.5 to 2.5	Pass	
				30	3.84	-0.358	-0.0004	-2.5 to 2.5	Pass	
	40	3.84	-0.086	-0.0001	-2.5 to 2.5	Pass				
	50	3.84	-4.163	-0.0050	-2.5 to 2.5	Pass				
	836.5	6	0	20	3.6	-13.447	-0.0161	-2.5 to 2.5	Pass	
					3.84	-0.544	-0.0007	-2.5 to 2.5	Pass	
					4.3	-2.761	-0.0033	-2.5 to 2.5	Pass	
				-30	3.84	-4.849	-0.0058	-2.5 to 2.5	Pass	
					-20	3.84	-4.992	-0.0060	-2.5 to 2.5	Pass
						3.84	-10.901	-0.0130	-2.5 to 2.5	Pass
				0	3.84	-6.723	-0.0080	-2.5 to 2.5	Pass	
				10	3.84	-6.766	-0.0081	-2.5 to 2.5	Pass	
				30	3.84	-3.119	-0.0037	-2.5 to 2.5	Pass	
	40	3.84	-6.680	-0.0080	-2.5 to 2.5	Pass				
	50	3.84	-7.854	-0.0094	-2.5 to 2.5	Pass				
	848.3	6	0	20	3.6	-4.692	-0.0055	-2.5 to 2.5	Pass	
					3.84	-2.003	-0.0024	-2.5 to 2.5	Pass	
					4.3	-10.285	-0.0121	-2.5 to 2.5	Pass	
				-30	3.84	-5.651	-0.0067	-2.5 to 2.5	Pass	
					-20	3.84	0.272	0.0003	-2.5 to 2.5	Pass
3.84						-7.410	-0.0087	-2.5 to 2.5	Pass	
0				3.84	-5.121	-0.0060	-2.5 to 2.5	Pass		
10				3.84	-3.705	-0.0044	-2.5 to 2.5	Pass		
30				3.84	-5.679	-0.0067	-2.5 to 2.5	Pass		
40	3.84	-7.796	-0.0092	-2.5 to 2.5	Pass					
50	3.84	-7.067	-0.0083	-2.5 to 2.5	Pass					
16QAM	824.7	6	0	20	3.6	-3.376	-0.0041	-2.5 to 2.5	Pass	
					3.84	-4.950	-0.0060	-2.5 to 2.5	Pass	



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64QAM	836.5	6	0	4.3	-7.825	-0.0095	-2.5 to 2.5	Pass	
				-30	3.84	-3.805	-0.0046	-2.5 to 2.5	Pass
				-20	3.84	-6.795	-0.0082	-2.5 to 2.5	Pass
				-10	3.84	-1.245	-0.0015	-2.5 to 2.5	Pass
				0	3.84	-1.903	-0.0023	-2.5 to 2.5	Pass
				10	3.84	-3.304	-0.0040	-2.5 to 2.5	Pass
				30	3.84	-4.392	-0.0053	-2.5 to 2.5	Pass
				40	3.84	-0.186	-0.0002	-2.5 to 2.5	Pass
	50	3.84	-5.121	-0.0062	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.6	-7.310	-0.0087	-2.5 to 2.5	Pass
					3.84	-3.505	-0.0042	-2.5 to 2.5	Pass
					4.3	-3.862	-0.0046	-2.5 to 2.5	Pass
				-30	3.84	-9.041	-0.0108	-2.5 to 2.5	Pass
				-20	3.84	-6.509	-0.0078	-2.5 to 2.5	Pass
				-10	3.84	-11.129	-0.0133	-2.5 to 2.5	Pass
				0	3.84	-3.390	-0.0041	-2.5 to 2.5	Pass
				10	3.84	-5.994	-0.0072	-2.5 to 2.5	Pass
	30	3.84	-3.719	-0.0044	-2.5 to 2.5	Pass			
	40	3.84	-10.929	-0.0131	-2.5 to 2.5	Pass			
	50	3.84	-7.653	-0.0091	-2.5 to 2.5	Pass			
	824.7	6	0	20	3.6	-7.925	-0.0093	-2.5 to 2.5	Pass
					3.84	-6.094	-0.0072	-2.5 to 2.5	Pass
					4.3	-3.676	-0.0043	-2.5 to 2.5	Pass
				-30	3.84	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.84	-6.695	-0.0079	-2.5 to 2.5	Pass
				-10	3.84	-2.975	-0.0035	-2.5 to 2.5	Pass
				0	3.84	-7.982	-0.0094	-2.5 to 2.5	Pass
				10	3.84	-5.293	-0.0062	-2.5 to 2.5	Pass
30				3.84	-5.536	-0.0065	-2.5 to 2.5	Pass	
40				3.84	-5.078	-0.0060	-2.5 to 2.5	Pass	
50				3.84	-4.549	-0.0054	-2.5 to 2.5	Pass	
836.5				6	0	20	3.6	-6.809	-0.0083
	3.84	-6.824	-0.0083				-2.5 to 2.5	Pass	
	4.3	-3.119	-0.0038				-2.5 to 2.5	Pass	
	-30	3.84	-6.065			-0.0074	-2.5 to 2.5	Pass	
	-20	3.84	-10.171			-0.0123	-2.5 to 2.5	Pass	
	-10	3.84	-4.134			-0.0050	-2.5 to 2.5	Pass	
	0	3.84	-3.061			-0.0037	-2.5 to 2.5	Pass	
	10	3.84	-4.106			-0.0050	-2.5 to 2.5	Pass	
	30	3.84	-6.866			-0.0083	-2.5 to 2.5	Pass	
	40	3.84	-0.758			-0.0009	-2.5 to 2.5	Pass	
50	3.84	-4.992	-0.0061	-2.5 to 2.5	Pass				
836.5	6	0	20	3.6	-6.065	-0.0073	-2.5 to 2.5	Pass	
				3.84	-6.423	-0.0077	-2.5 to 2.5	Pass	
				4.3	-10.471	-0.0125	-2.5 to 2.5	Pass	
			-30	3.84	-6.523	-0.0078	-2.5 to 2.5	Pass	
			-20	3.84	-6.280	-0.0075	-2.5 to 2.5	Pass	
-10	3.84	-6.537	-0.0078	-2.5 to 2.5	Pass				



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				0	3.84	-6.208	-0.0074	-2.5 to 2.5	Pass			
				10	3.84	-10.314	-0.0123	-2.5 to 2.5	Pass			
				30	3.84	-9.370	-0.0112	-2.5 to 2.5	Pass			
				40	3.84	-8.211	-0.0098	-2.5 to 2.5	Pass			
				50	3.84	-9.069	-0.0108	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.6	-5.794	-0.0068	-2.5 to 2.5	Pass			
3.84					-4.449	-0.0052	-2.5 to 2.5	Pass				
4.3					-4.935	-0.0058	-2.5 to 2.5	Pass				
							-30	3.84	-1.774	-0.0021	-2.5 to 2.5	Pass
							-20	3.84	-6.309	-0.0074	-2.5 to 2.5	Pass
							-10	3.84	-2.418	-0.0029	-2.5 to 2.5	Pass
							0	3.84	-6.309	-0.0074	-2.5 to 2.5	Pass
							10	3.84	-7.467	-0.0088	-2.5 to 2.5	Pass
							30	3.84	-0.930	-0.0011	-2.5 to 2.5	Pass
							40	3.84	-5.450	-0.0064	-2.5 to 2.5	Pass
							50	3.84	-0.973	-0.0011	-2.5 to 2.5	Pass



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2.2 B5_3MHz

2.2.1 Test Result

Band: 5 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	825.5	15	0	20	3.6	-3.805	-0.0046	-2.5 to 2.5	Pass	
					3.84	-9.456	-0.0115	-2.5 to 2.5	Pass	
					4.3	-7.768	-0.0094	-2.5 to 2.5	Pass	
				-30	3.84	-4.392	-0.0053	-2.5 to 2.5	Pass	
					-20	3.84	-6.323	-0.0077	-2.5 to 2.5	Pass
					-10	3.84	-4.663	-0.0056	-2.5 to 2.5	Pass
				0	3.84	-2.189	-0.0027	-2.5 to 2.5	Pass	
					10	3.84	-5.507	-0.0067	-2.5 to 2.5	Pass
					30	3.84	-6.437	-0.0078	-2.5 to 2.5	Pass
	40	3.84	-6.323		-0.0077	-2.5 to 2.5	Pass			
	50	3.84	-6.795		-0.0082	-2.5 to 2.5	Pass			
	3.84	-6.795	-0.0082		-2.5 to 2.5	Pass				
	836.5	15	0	20	3.6	-11.544	-0.0138	-2.5 to 2.5	Pass	
					3.84	-5.479	-0.0065	-2.5 to 2.5	Pass	
					4.3	-5.221	-0.0062	-2.5 to 2.5	Pass	
				-30	3.84	-5.164	-0.0062	-2.5 to 2.5	Pass	
					-20	3.84	-11.373	-0.0136	-2.5 to 2.5	Pass
					-10	3.84	-5.193	-0.0062	-2.5 to 2.5	Pass
				0	3.84	-7.725	-0.0092	-2.5 to 2.5	Pass	
					10	3.84	-7.453	-0.0089	-2.5 to 2.5	Pass
					30	3.84	-7.567	-0.0090	-2.5 to 2.5	Pass
	40	3.84	-7.653		-0.0091	-2.5 to 2.5	Pass			
	50	3.84	-3.219		-0.0038	-2.5 to 2.5	Pass			
	3.84	-3.219	-0.0038		-2.5 to 2.5	Pass				
	847.5	15	0	20	3.6	-7.396	-0.0087	-2.5 to 2.5	Pass	
					3.84	-8.154	-0.0096	-2.5 to 2.5	Pass	
					4.3	-6.809	-0.0080	-2.5 to 2.5	Pass	
-30				3.84	-4.363	-0.0051	-2.5 to 2.5	Pass		
				-20	3.84	-7.238	-0.0085	-2.5 to 2.5	Pass	
				-10	3.84	-1.860	-0.0022	-2.5 to 2.5	Pass	
0				3.84	-5.207	-0.0061	-2.5 to 2.5	Pass		
				10	3.84	-1.674	-0.0020	-2.5 to 2.5	Pass	
				30	3.84	-4.950	-0.0058	-2.5 to 2.5	Pass	
	40	3.84	-6.552	-0.0077	-2.5 to 2.5	Pass				
	50	3.84	-2.017	-0.0024	-2.5 to 2.5	Pass				
	3.84	-2.017	-0.0024	-2.5 to 2.5	Pass					
16QAM	825.5	15	0	20	3.6	-8.225	-0.0100	-2.5 to 2.5	Pass	
					3.84	-3.705	-0.0045	-2.5 to 2.5	Pass	
					4.3	-3.490	-0.0042	-2.5 to 2.5	Pass	
				-30	3.84	-4.349	-0.0053	-2.5 to 2.5	Pass	
					-20	3.84	-5.350	-0.0065	-2.5 to 2.5	Pass



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64QAM	836.5	15	0	-10	3.84	-7.668	-0.0093	-2.5 to 2.5	Pass				
				0	3.84	-3.061	-0.0037	-2.5 to 2.5	Pass				
				10	3.84	-10.686	-0.0129	-2.5 to 2.5	Pass				
				30	3.84	-6.208	-0.0075	-2.5 to 2.5	Pass				
				40	3.84	-7.668	-0.0093	-2.5 to 2.5	Pass				
				50	3.84	-8.311	-0.0101	-2.5 to 2.5	Pass				
	836.5	15	0	20	3.6	-9.570	-0.0114	-2.5 to 2.5	Pass				
					3.84	-8.025	-0.0096	-2.5 to 2.5	Pass				
					4.3	-6.981	-0.0083	-2.5 to 2.5	Pass				
				847.5	15	0	0	-30	3.84	-8.497	-0.0102	-2.5 to 2.5	Pass
								-20	3.84	-2.246	-0.0027	-2.5 to 2.5	Pass
								-10	3.84	-6.537	-0.0078	-2.5 to 2.5	Pass
								0	3.84	-13.003	-0.0155	-2.5 to 2.5	Pass
								10	3.84	-6.180	-0.0074	-2.5 to 2.5	Pass
								30	3.84	-10.443	-0.0125	-2.5 to 2.5	Pass
								40	3.84	-7.410	-0.0089	-2.5 to 2.5	Pass
	847.5	15	0	0	50	3.84	-10.457	-0.0125	-2.5 to 2.5	Pass			
					20	3.6	-7.682	-0.0091	-2.5 to 2.5	Pass			
						3.84	-2.246	-0.0027	-2.5 to 2.5	Pass			
						4.3	-4.249	-0.0050	-2.5 to 2.5	Pass			
					825.5	15	0	0	-30	3.84	-5.894	-0.0070	-2.5 to 2.5
-20									3.84	-7.854	-0.0093	-2.5 to 2.5	Pass
-10									3.84	-6.137	-0.0072	-2.5 to 2.5	Pass
0									3.84	-6.180	-0.0073	-2.5 to 2.5	Pass
10									3.84	-5.651	-0.0067	-2.5 to 2.5	Pass
30									3.84	-2.360	-0.0028	-2.5 to 2.5	Pass
40	3.84	-8.097	-0.0096	-2.5 to 2.5					Pass				
825.5	15	0	0	50	3.84	-5.651	-0.0067	-2.5 to 2.5	Pass				
				20	3.6	-8.111	-0.0098	-2.5 to 2.5	Pass				
					3.84	-8.698	-0.0105	-2.5 to 2.5	Pass				
					4.3	-5.922	-0.0072	-2.5 to 2.5	Pass				
				836.5	15	0	0	-30	3.84	-7.954	-0.0096	-2.5 to 2.5	Pass
								-20	3.84	-4.892	-0.0059	-2.5 to 2.5	Pass
								-10	3.84	-3.605	-0.0044	-2.5 to 2.5	Pass
								0	3.84	-6.709	-0.0081	-2.5 to 2.5	Pass
								10	3.84	-7.396	-0.0090	-2.5 to 2.5	Pass
								30	3.84	-2.947	-0.0036	-2.5 to 2.5	Pass
40	3.84	-10.285	-0.0125					-2.5 to 2.5	Pass				
836.5	15	0	0	50	3.84	-5.379	-0.0065	-2.5 to 2.5	Pass				
				20	3.6	-8.640	-0.0103	-2.5 to 2.5	Pass				
					3.84	-8.440	-0.0101	-2.5 to 2.5	Pass				
					4.3	-6.838	-0.0082	-2.5 to 2.5	Pass				
				836.5	15	0	0	-30	3.84	-10.200	-0.0122	-2.5 to 2.5	Pass
								-20	3.84	-7.768	-0.0093	-2.5 to 2.5	Pass
								-10	3.84	-5.236	-0.0063	-2.5 to 2.5	Pass
								0	3.84	-6.008	-0.0072	-2.5 to 2.5	Pass
								10	3.84	-5.064	-0.0061	-2.5 to 2.5	Pass
								30	3.84	-5.636	-0.0067	-2.5 to 2.5	Pass



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				40	3.84	0.401	0.0005	-2.5 to 2.5	Pass
				50	3.84	-5.579	-0.0067	-2.5 to 2.5	Pass
	847.5	15	0	20	3.6	-1.674	-0.0020	-2.5 to 2.5	Pass
3.84					-5.193	-0.0061	-2.5 to 2.5	Pass	
4.3				-6.609	-0.0078	-2.5 to 2.5	Pass		
-30				3.84	-3.119	-0.0037	-2.5 to 2.5	Pass	
-20				3.84	-4.234	-0.0050	-2.5 to 2.5	Pass	
-10				3.84	-3.233	-0.0038	-2.5 to 2.5	Pass	
0				3.84	-6.266	-0.0074	-2.5 to 2.5	Pass	
10				3.84	-5.207	-0.0061	-2.5 to 2.5	Pass	
30				3.84	-6.137	-0.0072	-2.5 to 2.5	Pass	
40				3.84	-3.877	-0.0046	-2.5 to 2.5	Pass	
50				3.84	-6.680	-0.0079	-2.5 to 2.5	Pass	



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2.3 B5_5MHz

2.3.1 Test Result

Band: 5 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	826.5	25	0	20	3.6	-5.522	-0.0067	-2.5 to 2.5	Pass	
					3.84	-6.409	-0.0078	-2.5 to 2.5	Pass	
					4.3	-4.807	-0.0058	-2.5 to 2.5	Pass	
				-30	3.84	-9.613	-0.0116	-2.5 to 2.5	Pass	
					-20	3.84	-5.422	-0.0066	-2.5 to 2.5	Pass
					-10	3.84	-6.938	-0.0084	-2.5 to 2.5	Pass
				0	3.84	-6.337	-0.0077	-2.5 to 2.5	Pass	
					10	3.84	-4.148	-0.0050	-2.5 to 2.5	Pass
					30	3.84	-7.124	-0.0086	-2.5 to 2.5	Pass
	40	3.84	-5.407	-0.0065	-2.5 to 2.5	Pass				
		50	3.84	-3.934	-0.0048	-2.5 to 2.5	Pass			
		20	25	0	20	3.6	-1.287	-0.0015	-2.5 to 2.5	Pass
	3.84					-2.046	-0.0024	-2.5 to 2.5	Pass	
	4.3					-2.189	-0.0026	-2.5 to 2.5	Pass	
	-30	3.84	-6.194	-0.0074	-2.5 to 2.5	Pass				
		-20	3.84	-0.129	-0.0002	-2.5 to 2.5	Pass			
		-10	3.84	-8.883	-0.0106	-2.5 to 2.5	Pass			
	0	3.84	-3.376	-0.0040	-2.5 to 2.5	Pass				
		10	3.84	-5.364	-0.0064	-2.5 to 2.5	Pass			
		30	3.84	-6.595	-0.0079	-2.5 to 2.5	Pass			
	40	3.84	-5.107	-0.0061	-2.5 to 2.5	Pass				
		50	3.84	-4.807	-0.0057	-2.5 to 2.5	Pass			
		20	25	0	20	3.6	-4.506	-0.0053	-2.5 to 2.5	Pass
	3.84					-3.691	-0.0044	-2.5 to 2.5	Pass	
	4.3					-8.068	-0.0095	-2.5 to 2.5	Pass	
	-30	3.84	-4.964	-0.0059	-2.5 to 2.5	Pass				
		-20	3.84	-2.017	-0.0024	-2.5 to 2.5	Pass			
-10		3.84	-5.593	-0.0066	-2.5 to 2.5	Pass				
0	3.84	-6.781	-0.0080	-2.5 to 2.5	Pass					
	10	3.84	-7.782	-0.0092	-2.5 to 2.5	Pass				
	30	3.84	-8.512	-0.0101	-2.5 to 2.5	Pass				
40	3.84	-4.506	-0.0053	-2.5 to 2.5	Pass					
	50	3.84	-3.462	-0.0041	-2.5 to 2.5	Pass				
	20	25	0	20	3.6	-3.419	-0.0041	-2.5 to 2.5	Pass	
3.84					-5.736	-0.0069	-2.5 to 2.5	Pass		
4.3					-6.180	-0.0075	-2.5 to 2.5	Pass		
-30	3.84	-3.805	-0.0046	-2.5 to 2.5	Pass					
	-20	3.84	-7.839	-0.0095	-2.5 to 2.5	Pass				
	16QAM	826.5	25	0	20	3.6	-3.419	-0.0041	-2.5 to 2.5	Pass
3.84						-5.736	-0.0069	-2.5 to 2.5	Pass	
4.3						-6.180	-0.0075	-2.5 to 2.5	Pass	
-30	3.84	-3.805	-0.0046	-2.5 to 2.5	Pass					
	-20	3.84	-7.839	-0.0095	-2.5 to 2.5	Pass				



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64QAM	836.5	25	0	-10	3.84	-4.091	-0.0049	-2.5 to 2.5	Pass
				0	3.84	-7.296	-0.0088	-2.5 to 2.5	Pass
				10	3.84	-5.951	-0.0072	-2.5 to 2.5	Pass
				30	3.84	-1.988	-0.0024	-2.5 to 2.5	Pass
				40	3.84	-6.709	-0.0081	-2.5 to 2.5	Pass
				50	3.84	-6.437	-0.0078	-2.5 to 2.5	Pass
	846.5	25	0	20	3.6	-1.345	-0.0016	-2.5 to 2.5	Pass
					3.84	-6.752	-0.0081	-2.5 to 2.5	Pass
					4.3	-5.865	-0.0070	-2.5 to 2.5	Pass
				-30	3.84	-4.478	-0.0054	-2.5 to 2.5	Pass
				-20	3.84	-4.163	-0.0050	-2.5 to 2.5	Pass
				-10	3.84	-7.997	-0.0096	-2.5 to 2.5	Pass
				0	3.84	-9.456	-0.0113	-2.5 to 2.5	Pass
				10	3.84	-3.347	-0.0040	-2.5 to 2.5	Pass
				30	3.84	-5.922	-0.0071	-2.5 to 2.5	Pass
				40	3.84	-7.367	-0.0088	-2.5 to 2.5	Pass
				50	3.84	-8.411	-0.0101	-2.5 to 2.5	Pass
	826.5	25	0	20	3.6	-4.392	-0.0052	-2.5 to 2.5	Pass
					3.84	-8.626	-0.0102	-2.5 to 2.5	Pass
					4.3	-5.951	-0.0070	-2.5 to 2.5	Pass
				-30	3.84	-3.090	-0.0037	-2.5 to 2.5	Pass
				-20	3.84	-4.792	-0.0057	-2.5 to 2.5	Pass
				-10	3.84	-6.967	-0.0082	-2.5 to 2.5	Pass
				0	3.84	-7.811	-0.0092	-2.5 to 2.5	Pass
				10	3.84	-9.584	-0.0113	-2.5 to 2.5	Pass
				30	3.84	-6.752	-0.0080	-2.5 to 2.5	Pass
				40	3.84	-5.379	-0.0064	-2.5 to 2.5	Pass
50				3.84	-10.715	-0.0127	-2.5 to 2.5	Pass	
836.5	25	0	20	3.6	-7.138	-0.0086	-2.5 to 2.5	Pass	
				3.84	-4.749	-0.0057	-2.5 to 2.5	Pass	
				4.3	-8.039	-0.0097	-2.5 to 2.5	Pass	
			-30	3.84	-9.112	-0.0110	-2.5 to 2.5	Pass	
			-20	3.84	-6.967	-0.0084	-2.5 to 2.5	Pass	
			-10	3.84	-8.554	-0.0103	-2.5 to 2.5	Pass	
			0	3.84	-4.392	-0.0053	-2.5 to 2.5	Pass	
			10	3.84	-8.640	-0.0105	-2.5 to 2.5	Pass	
			30	3.84	-4.606	-0.0056	-2.5 to 2.5	Pass	
			40	3.84	-7.367	-0.0089	-2.5 to 2.5	Pass	
			50	3.84	-7.854	-0.0095	-2.5 to 2.5	Pass	
836.5	25	0	20	3.6	-3.061	-0.0037	-2.5 to 2.5	Pass	
				3.84	-6.866	-0.0082	-2.5 to 2.5	Pass	
				4.3	-4.334	-0.0052	-2.5 to 2.5	Pass	
			-30	3.84	-3.104	-0.0037	-2.5 to 2.5	Pass	
			-20	3.84	-4.320	-0.0052	-2.5 to 2.5	Pass	
			-10	3.84	-5.736	-0.0069	-2.5 to 2.5	Pass	
			0	3.84	-11.001	-0.0132	-2.5 to 2.5	Pass	
			10	3.84	-3.948	-0.0047	-2.5 to 2.5	Pass	
30	3.84	-3.762	-0.0045	-2.5 to 2.5	Pass				



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				40	3.84	-3.834	-0.0046	-2.5 to 2.5	Pass
				50	3.84	-4.406	-0.0053	-2.5 to 2.5	Pass
				20	3.6	-6.466	-0.0076	-2.5 to 2.5	Pass
					3.84	-4.606	-0.0054	-2.5 to 2.5	Pass
					4.3	-7.124	-0.0084	-2.5 to 2.5	Pass
				-30	3.84	-10.743	-0.0127	-2.5 to 2.5	Pass
				-20	3.84	-5.107	-0.0060	-2.5 to 2.5	Pass
				-10	3.84	-7.796	-0.0092	-2.5 to 2.5	Pass
				0	3.84	-4.978	-0.0059	-2.5 to 2.5	Pass
				10	3.84	-10.300	-0.0122	-2.5 to 2.5	Pass
				30	3.84	-3.061	-0.0036	-2.5 to 2.5	Pass
				40	3.84	-5.693	-0.0067	-2.5 to 2.5	Pass
				50	3.84	-2.561	-0.0030	-2.5 to 2.5	Pass



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2.4 B5_10MHz

2.4.1 Test Result

Band: 5 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	829	50	0	20	3.6	-6.852	-0.0083	-2.5 to 2.5	Pass	
					3.84	-8.497	-0.0102	-2.5 to 2.5	Pass	
					4.3	-9.513	-0.0115	-2.5 to 2.5	Pass	
				-30	3.84	-6.995	-0.0084	-2.5 to 2.5	Pass	
					-20	3.84	-1.316	-0.0016	-2.5 to 2.5	Pass
					-10	3.84	-6.680	-0.0081	-2.5 to 2.5	Pass
				0	3.84	-7.725	-0.0093	-2.5 to 2.5	Pass	
					10	3.84	-7.195	-0.0087	-2.5 to 2.5	Pass
					30	3.84	-5.479	-0.0066	-2.5 to 2.5	Pass
	40	3.84	-8.740		-0.0105	-2.5 to 2.5	Pass			
	50	3.84	-4.735		-0.0057	-2.5 to 2.5	Pass			
	836.5	50	0		20	3.6	-4.606	-0.0055	-2.5 to 2.5	Pass
				3.84		-5.722	-0.0068	-2.5 to 2.5	Pass	
				4.3		-5.836	-0.0070	-2.5 to 2.5	Pass	
				-30	3.84	-4.635	-0.0055	-2.5 to 2.5	Pass	
					-20	3.84	-2.861	-0.0034	-2.5 to 2.5	Pass
					-10	3.84	-2.875	-0.0034	-2.5 to 2.5	Pass
				0	3.84	-0.916	-0.0011	-2.5 to 2.5	Pass	
					10	3.84	-3.905	-0.0047	-2.5 to 2.5	Pass
					30	3.84	-6.022	-0.0072	-2.5 to 2.5	Pass
	40	3.84	-3.691		-0.0044	-2.5 to 2.5	Pass			
	50	3.84	-8.998		-0.0108	-2.5 to 2.5	Pass			
	844	50	0		20	3.6	-6.924	-0.0082	-2.5 to 2.5	Pass
				3.84		-8.912	-0.0106	-2.5 to 2.5	Pass	
				4.3		-3.176	-0.0038	-2.5 to 2.5	Pass	
				-30	3.84	-7.267	-0.0086	-2.5 to 2.5	Pass	
					-20	3.84	-6.824	-0.0081	-2.5 to 2.5	Pass
-10					3.84	-7.281	-0.0086	-2.5 to 2.5	Pass	
0				3.84	-2.375	-0.0028	-2.5 to 2.5	Pass		
				10	3.84	-5.579	-0.0066	-2.5 to 2.5	Pass	
				30	3.84	-6.166	-0.0073	-2.5 to 2.5	Pass	
	40	3.84	-7.839	-0.0093	-2.5 to 2.5	Pass				
	50	3.84	-4.864	-0.0058	-2.5 to 2.5	Pass				
	16QAM	829	50	0	20	3.6	-4.306	-0.0052	-2.5 to 2.5	Pass
3.84						-7.954	-0.0096	-2.5 to 2.5	Pass	
4.3						-2.532	-0.0031	-2.5 to 2.5	Pass	
-30					3.84	-8.683	-0.0105	-2.5 to 2.5	Pass	
					-20	3.84	-7.768	-0.0094	-2.5 to 2.5	Pass



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64QAM	836.5	50	0	-10	3.84	-7.567	-0.0091	-2.5 to 2.5	Pass
				0	3.84	-3.691	-0.0045	-2.5 to 2.5	Pass
				10	3.84	-4.320	-0.0052	-2.5 to 2.5	Pass
				30	3.84	-4.292	-0.0052	-2.5 to 2.5	Pass
				40	3.84	-6.695	-0.0081	-2.5 to 2.5	Pass
				50	3.84	-7.782	-0.0094	-2.5 to 2.5	Pass
	836.5	50	0	20	3.6	-6.838	-0.0082	-2.5 to 2.5	Pass
					3.84	-5.965	-0.0071	-2.5 to 2.5	Pass
					4.3	-7.567	-0.0090	-2.5 to 2.5	Pass
				-30	3.84	-8.698	-0.0104	-2.5 to 2.5	Pass
				-20	3.84	-8.054	-0.0096	-2.5 to 2.5	Pass
				-10	3.84	-6.251	-0.0075	-2.5 to 2.5	Pass
				0	3.84	-7.253	-0.0087	-2.5 to 2.5	Pass
				10	3.84	-4.892	-0.0058	-2.5 to 2.5	Pass
				30	3.84	-5.264	-0.0063	-2.5 to 2.5	Pass
				40	3.84	-7.696	-0.0092	-2.5 to 2.5	Pass
	844	50	0	20	3.6	-8.011	-0.0095	-2.5 to 2.5	Pass
					3.84	-4.606	-0.0055	-2.5 to 2.5	Pass
					4.3	-7.381	-0.0087	-2.5 to 2.5	Pass
				-30	3.84	-7.896	-0.0094	-2.5 to 2.5	Pass
				-20	3.84	-4.578	-0.0054	-2.5 to 2.5	Pass
				-10	3.84	-2.961	-0.0035	-2.5 to 2.5	Pass
				0	3.84	-7.710	-0.0091	-2.5 to 2.5	Pass
				10	3.84	-5.050	-0.0060	-2.5 to 2.5	Pass
				30	3.84	-7.753	-0.0092	-2.5 to 2.5	Pass
				40	3.84	-6.924	-0.0082	-2.5 to 2.5	Pass
	829	50	0	20	3.6	-8.740	-0.0105	-2.5 to 2.5	Pass
					3.84	-10.271	-0.0124	-2.5 to 2.5	Pass
					4.3	-7.510	-0.0091	-2.5 to 2.5	Pass
				-30	3.84	-5.751	-0.0069	-2.5 to 2.5	Pass
-20				3.84	-8.755	-0.0106	-2.5 to 2.5	Pass	
-10				3.84	-6.552	-0.0079	-2.5 to 2.5	Pass	
0				3.84	-2.804	-0.0034	-2.5 to 2.5	Pass	
10				3.84	-5.107	-0.0062	-2.5 to 2.5	Pass	
30				3.84	-9.713	-0.0117	-2.5 to 2.5	Pass	
40				3.84	-6.781	-0.0082	-2.5 to 2.5	Pass	
836.5	50	0	20	3.6	-3.963	-0.0047	-2.5 to 2.5	Pass	
				3.84	-4.706	-0.0056	-2.5 to 2.5	Pass	
				4.3	-5.550	-0.0066	-2.5 to 2.5	Pass	
			-30	3.84	-1.831	-0.0022	-2.5 to 2.5	Pass	
			-20	3.84	-4.935	-0.0059	-2.5 to 2.5	Pass	
			-10	3.84	-6.652	-0.0080	-2.5 to 2.5	Pass	
			0	3.84	-4.792	-0.0057	-2.5 to 2.5	Pass	
			10	3.84	-7.696	-0.0092	-2.5 to 2.5	Pass	
			30	3.84	-6.795	-0.0081	-2.5 to 2.5	Pass	



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				40	3.84	-10.571	-0.0126	-2.5 to 2.5	Pass
				50	3.84	-3.805	-0.0045	-2.5 to 2.5	Pass
				20	3.6	-7.324	-0.0087	-2.5 to 2.5	Pass
					3.84	-3.147	-0.0037	-2.5 to 2.5	Pass
					4.3	-4.249	-0.0050	-2.5 to 2.5	Pass
				-30	3.84	-5.736	-0.0068	-2.5 to 2.5	Pass
				-20	3.84	-5.836	-0.0069	-2.5 to 2.5	Pass
				-10	3.84	-6.838	-0.0081	-2.5 to 2.5	Pass
				0	3.84	-6.623	-0.0078	-2.5 to 2.5	Pass
				10	3.84	-7.610	-0.0090	-2.5 to 2.5	Pass
				30	3.84	-7.596	-0.0090	-2.5 to 2.5	Pass
				40	3.84	-8.554	-0.0101	-2.5 to 2.5	Pass
				50	3.84	-4.191	-0.0050	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band5_OBW

3.1.1 Test Result

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.102	/	Pass
		836.5	6	0	1.120	/	Pass
		848.3	6	0	1.105	/	Pass
	16QAM	824.7	6	0	1.102	/	Pass
		836.5	6	0	1.109	/	Pass
		848.3	6	0	1.115	/	Pass
	64QAM	824.7	6	0	1.116	/	Pass
		836.5	6	0	1.110	/	Pass
		848.3	6	0	1.108	/	Pass
3	QPSK	825.5	15	0	2.731	/	Pass
		836.5	15	0	2.719	/	Pass
		847.5	15	0	2.727	/	Pass
	16QAM	825.5	15	0	2.712	/	Pass
		836.5	15	0	2.723	/	Pass
		847.5	15	0	2.721	/	Pass
	64QAM	825.5	15	0	2.728	/	Pass
		836.5	15	0	2.718	/	Pass
		847.5	15	0	2.720	/	Pass
5	QPSK	826.5	25	0	4.557	/	Pass
		836.5	25	0	4.542	/	Pass
		846.5	25	0	4.538	/	Pass
	16QAM	826.5	25	0	4.526	/	Pass
		836.5	25	0	4.540	/	Pass
		846.5	25	0	4.525	/	Pass
	64QAM	826.5	25	0	4.537	/	Pass
		836.5	25	0	4.554	/	Pass
		846.5	25	0	4.533	/	Pass
10	QPSK	829	50	0	9.045	/	Pass
		836.5	50	0	9.053	/	Pass
		844	50	0	9.051	/	Pass
	16QAM	829	50	0	9.045	/	Pass
		836.5	50	0	9.037	/	Pass
		844	50	0	9.043	/	Pass
	64QAM	829	50	0	9.077	/	Pass
		836.5	50	0	9.076	/	Pass
		844	50	0	9.074	/	Pass



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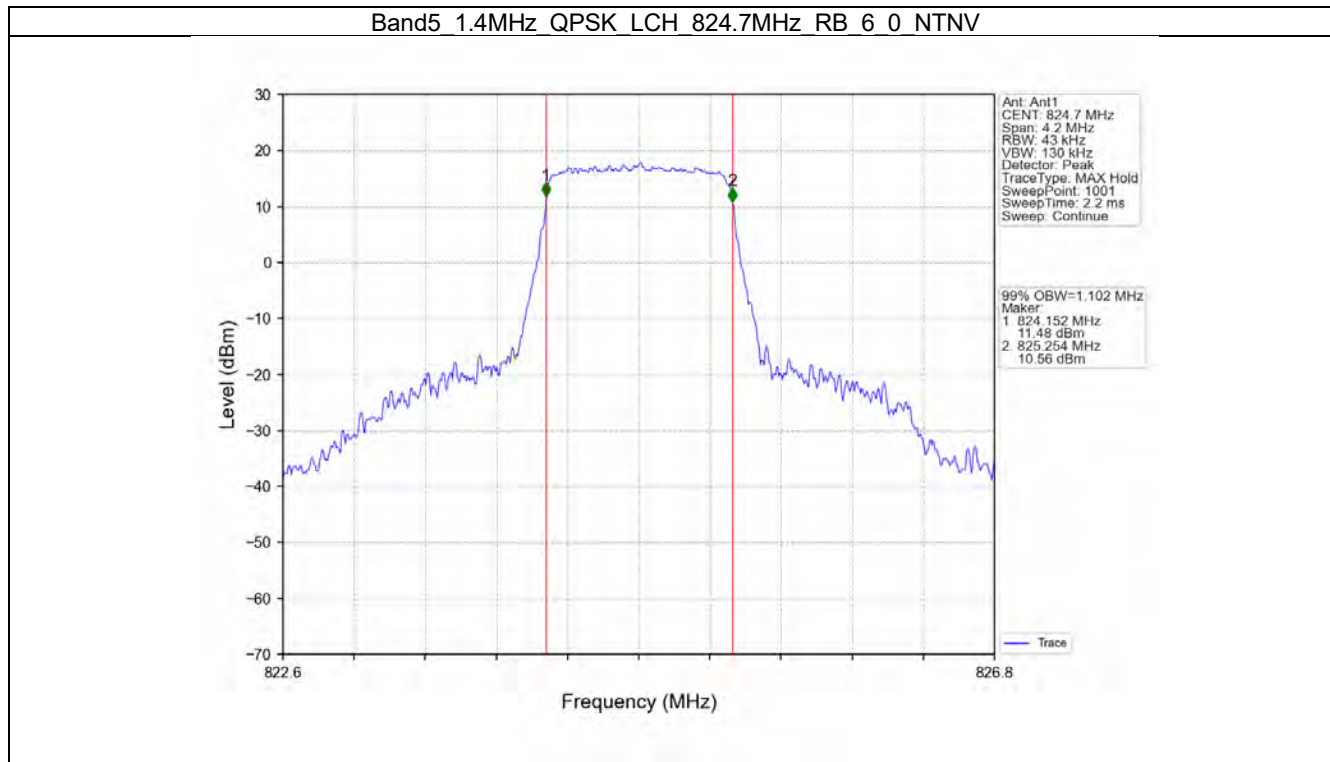
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4.1.2 Test Graph



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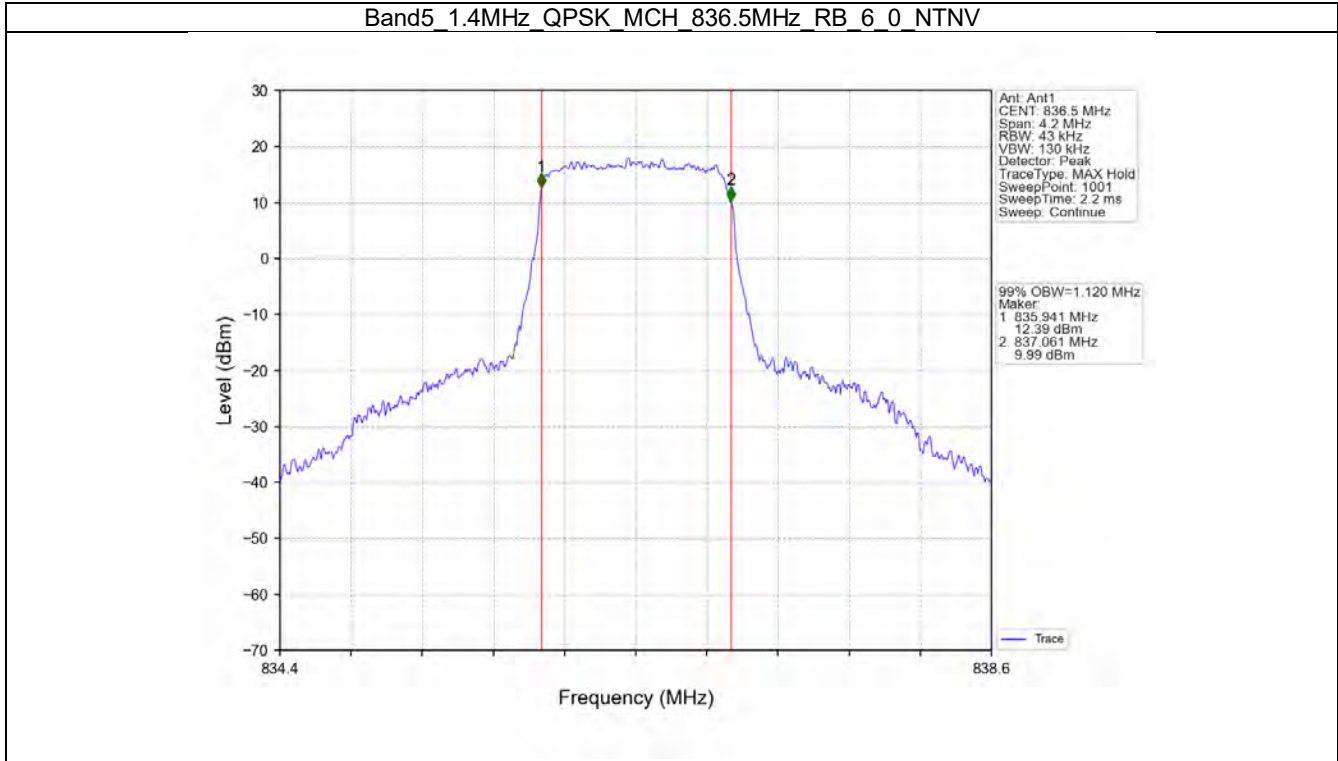


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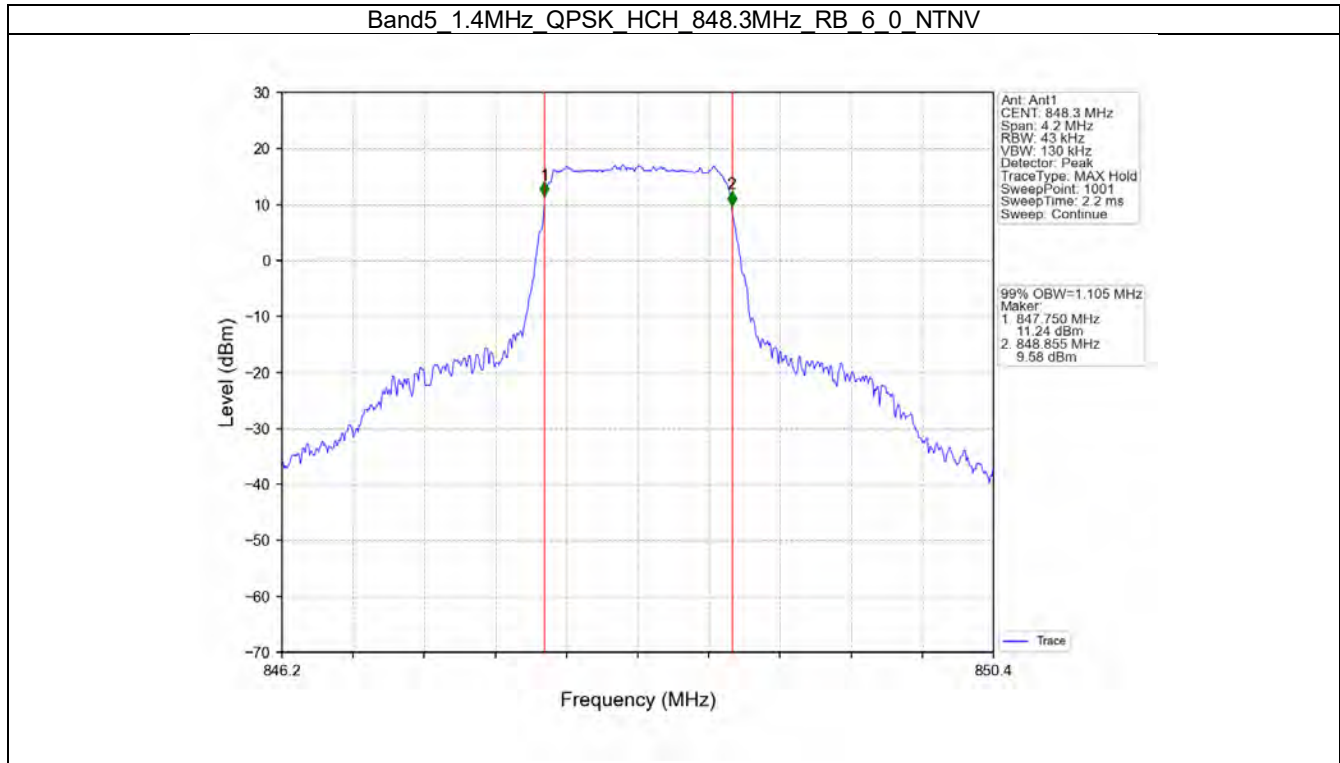


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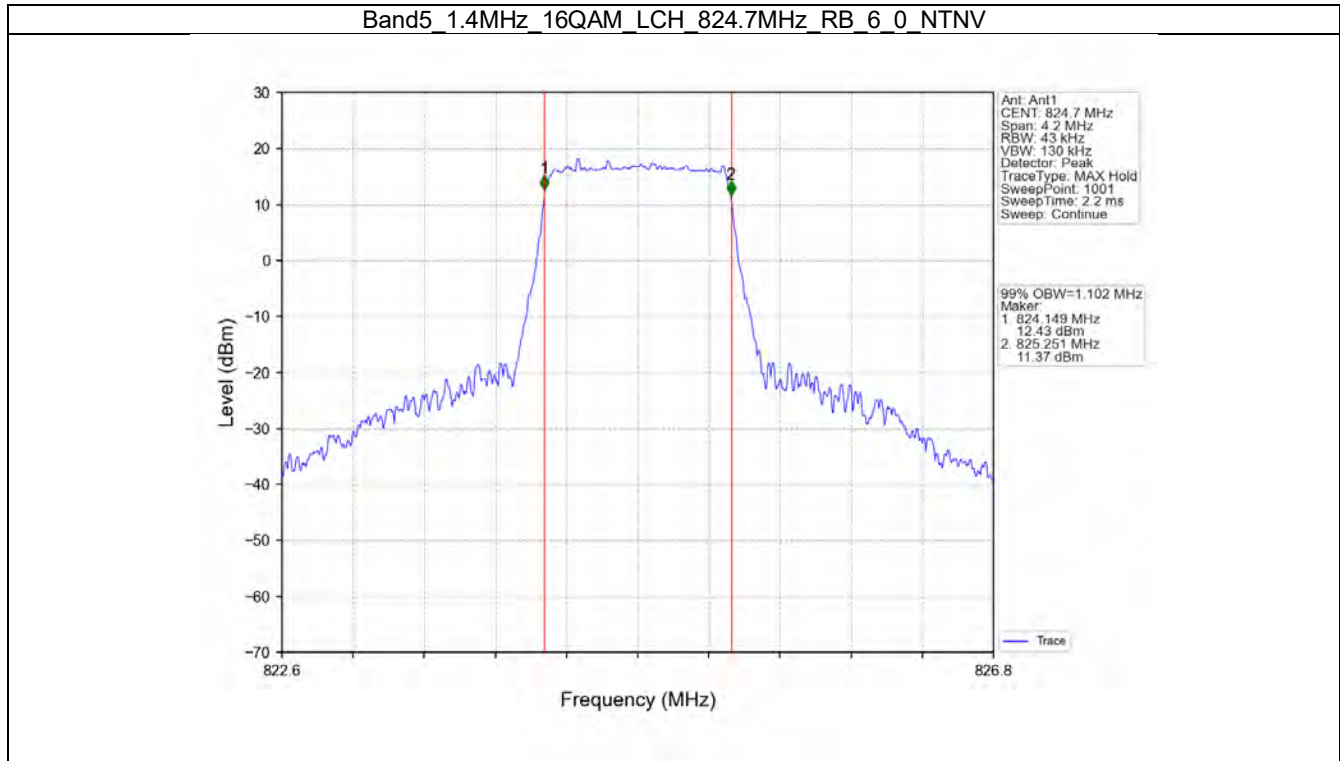


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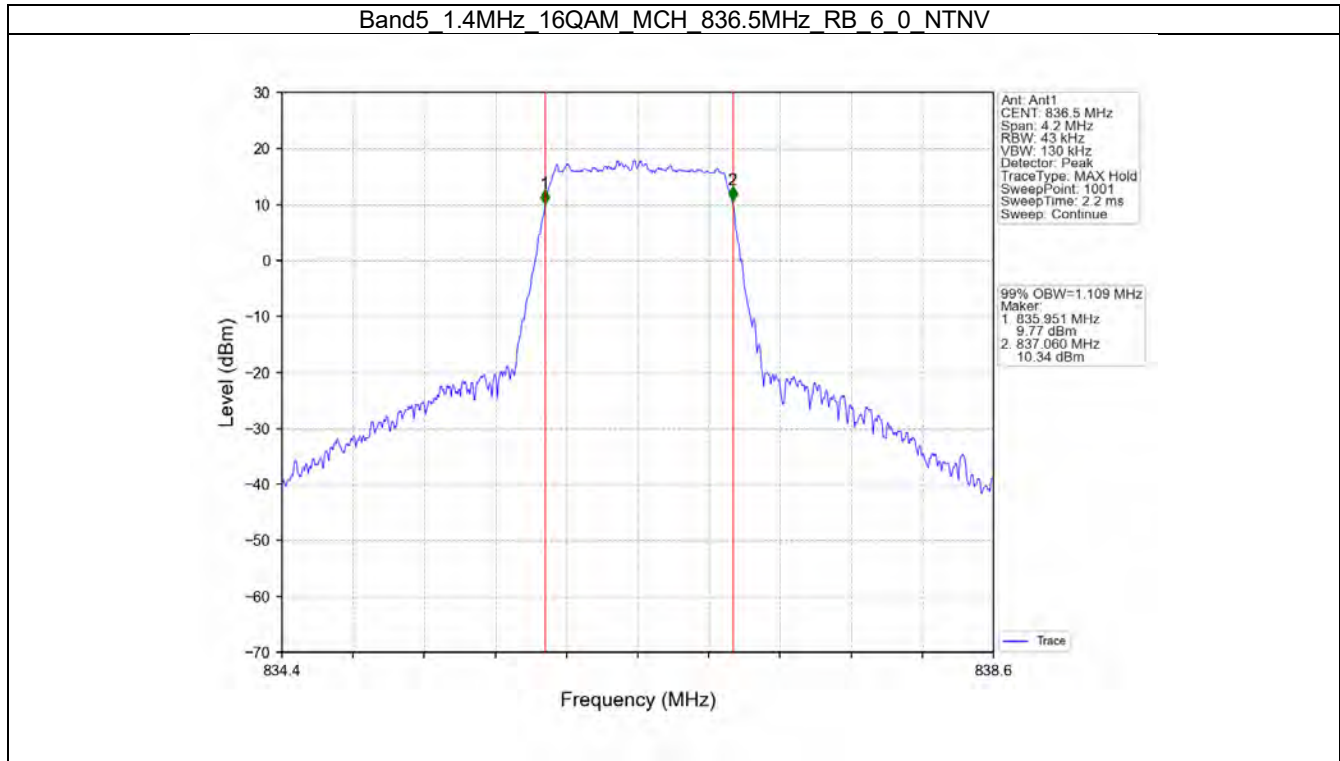


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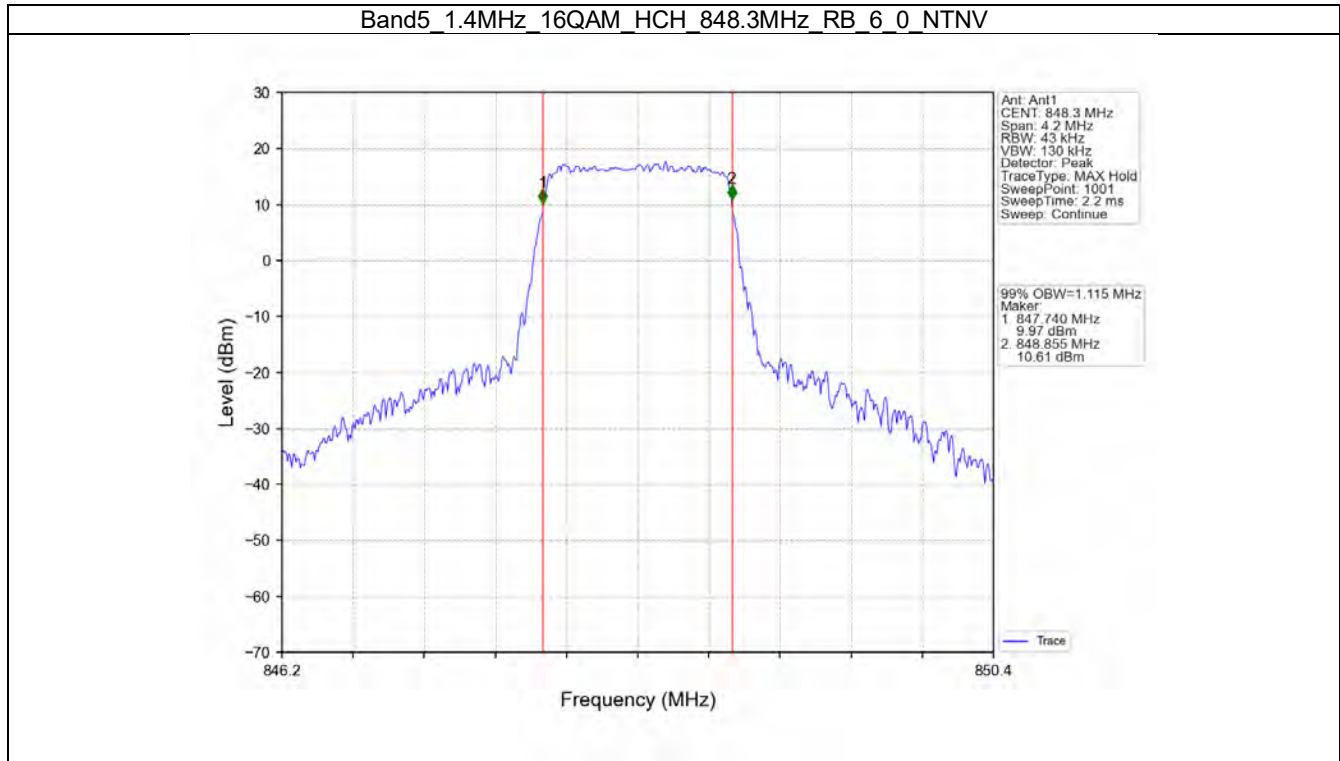


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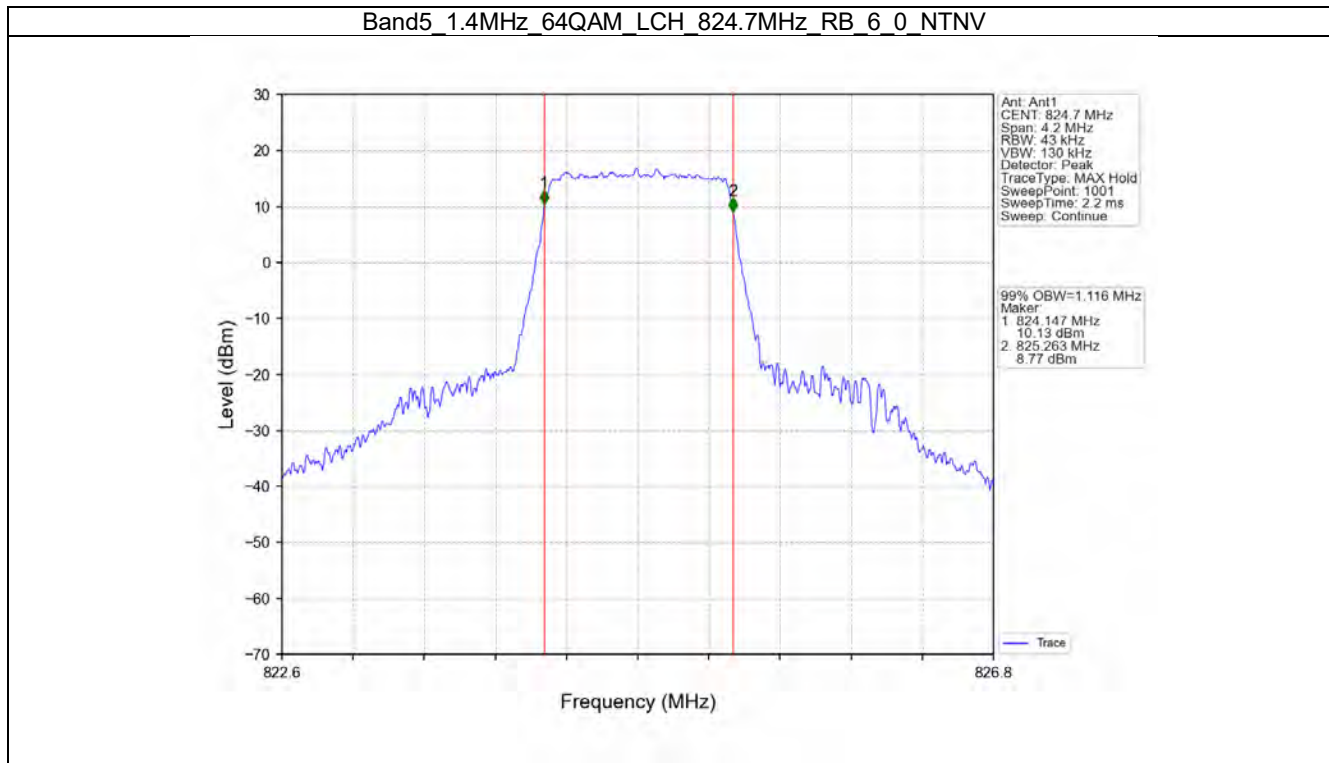
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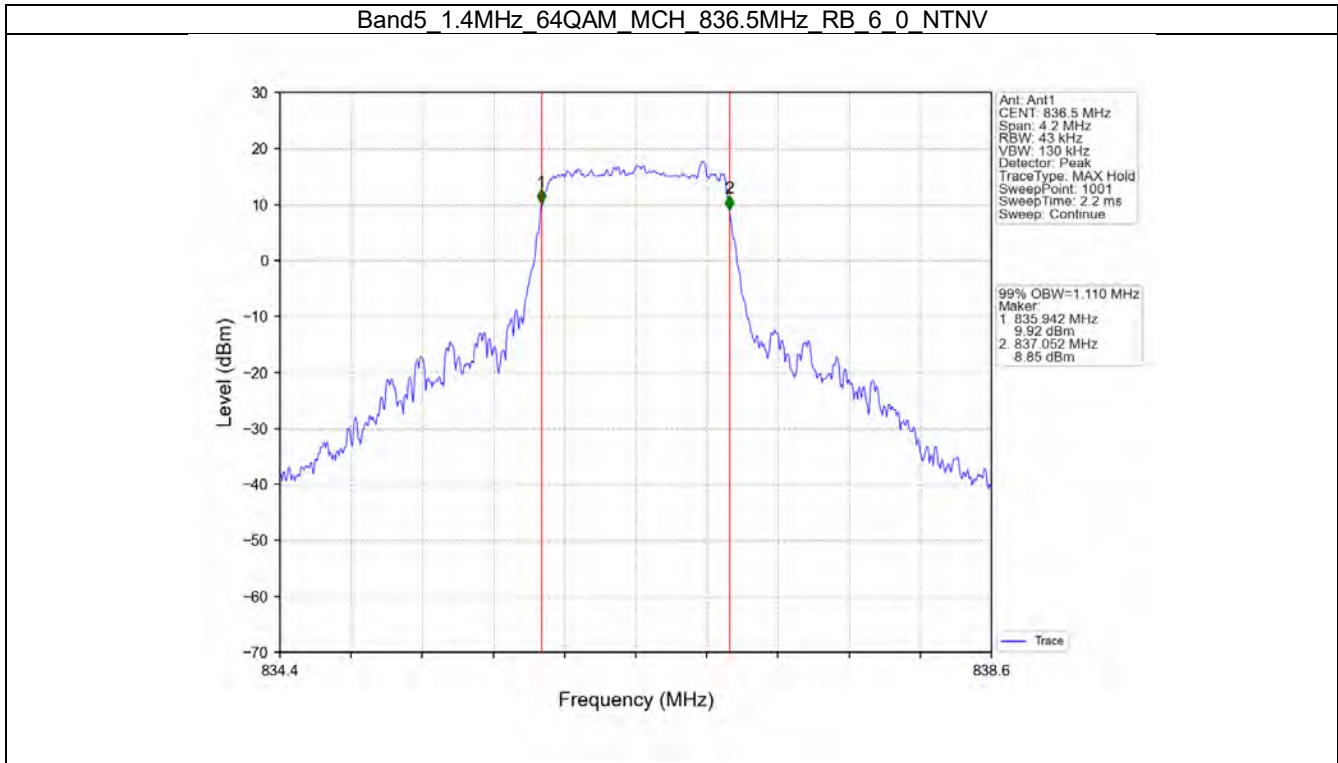


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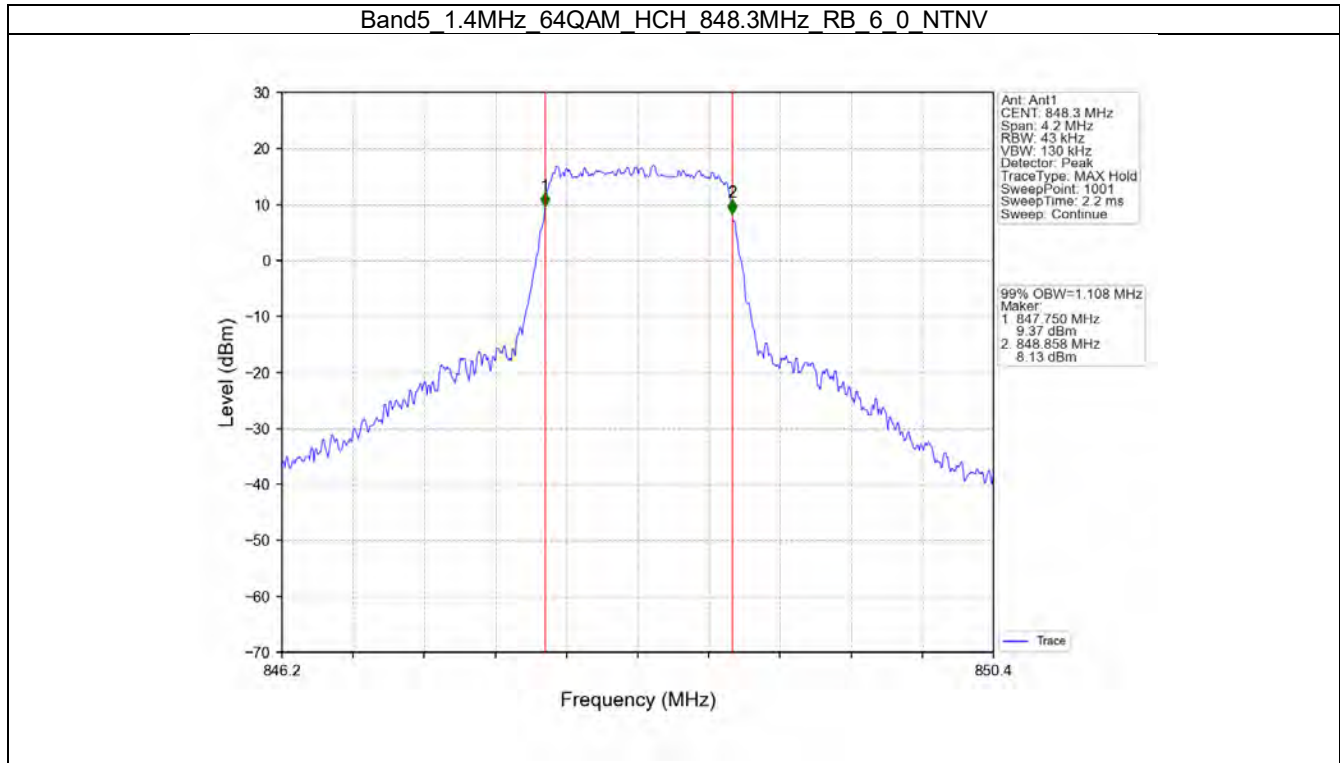


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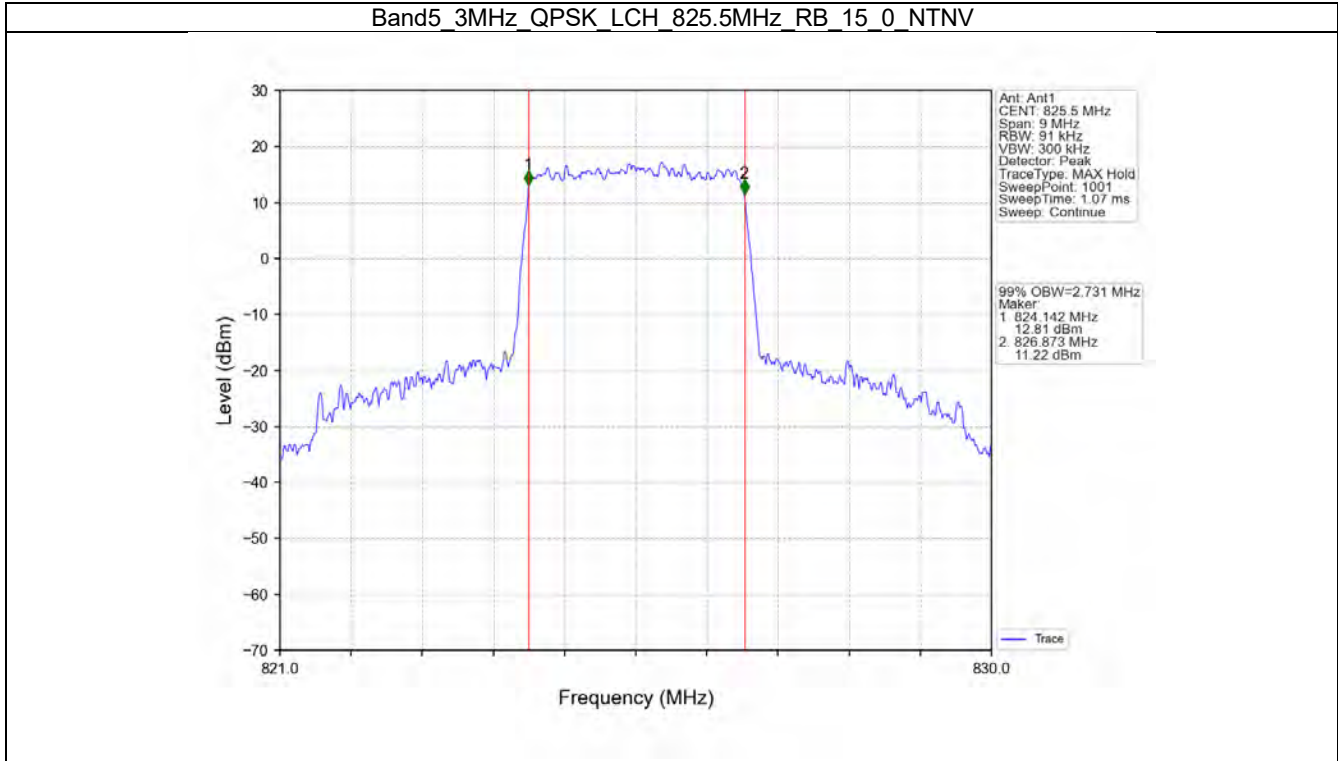


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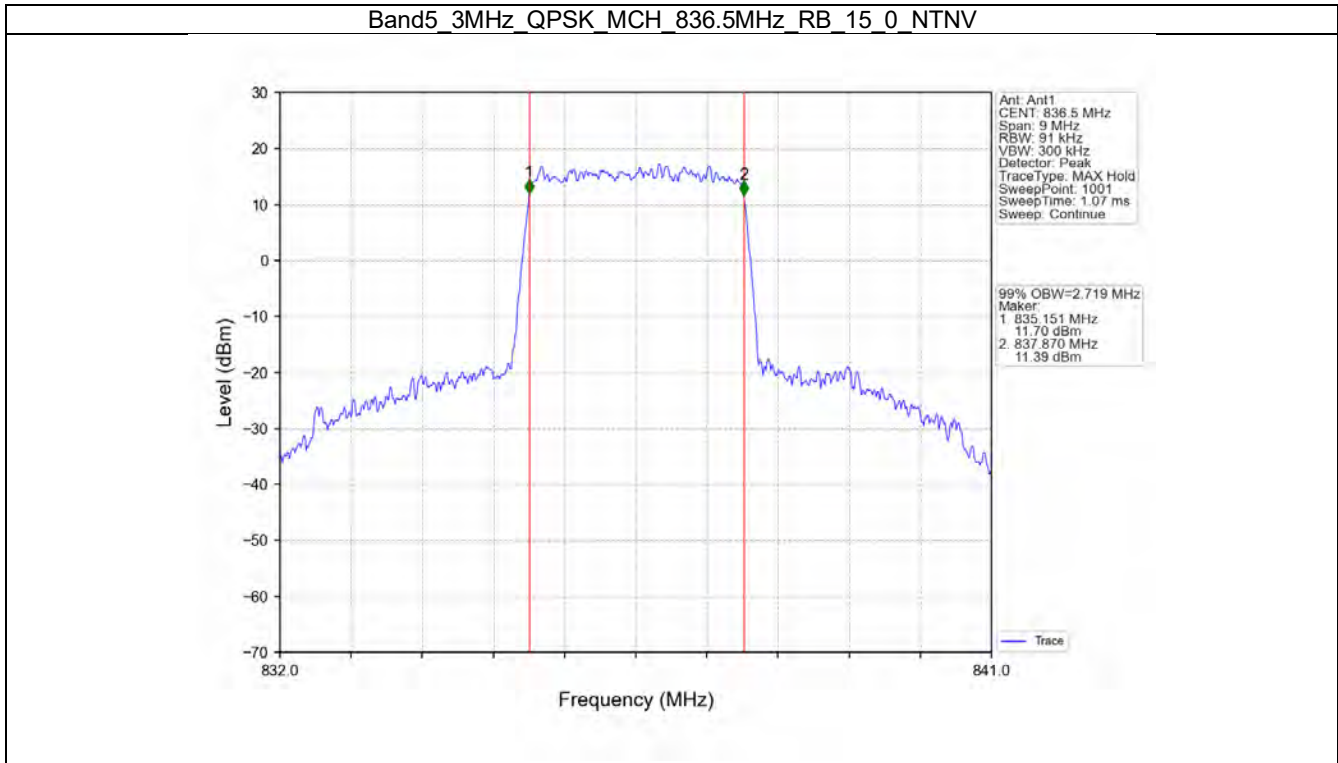


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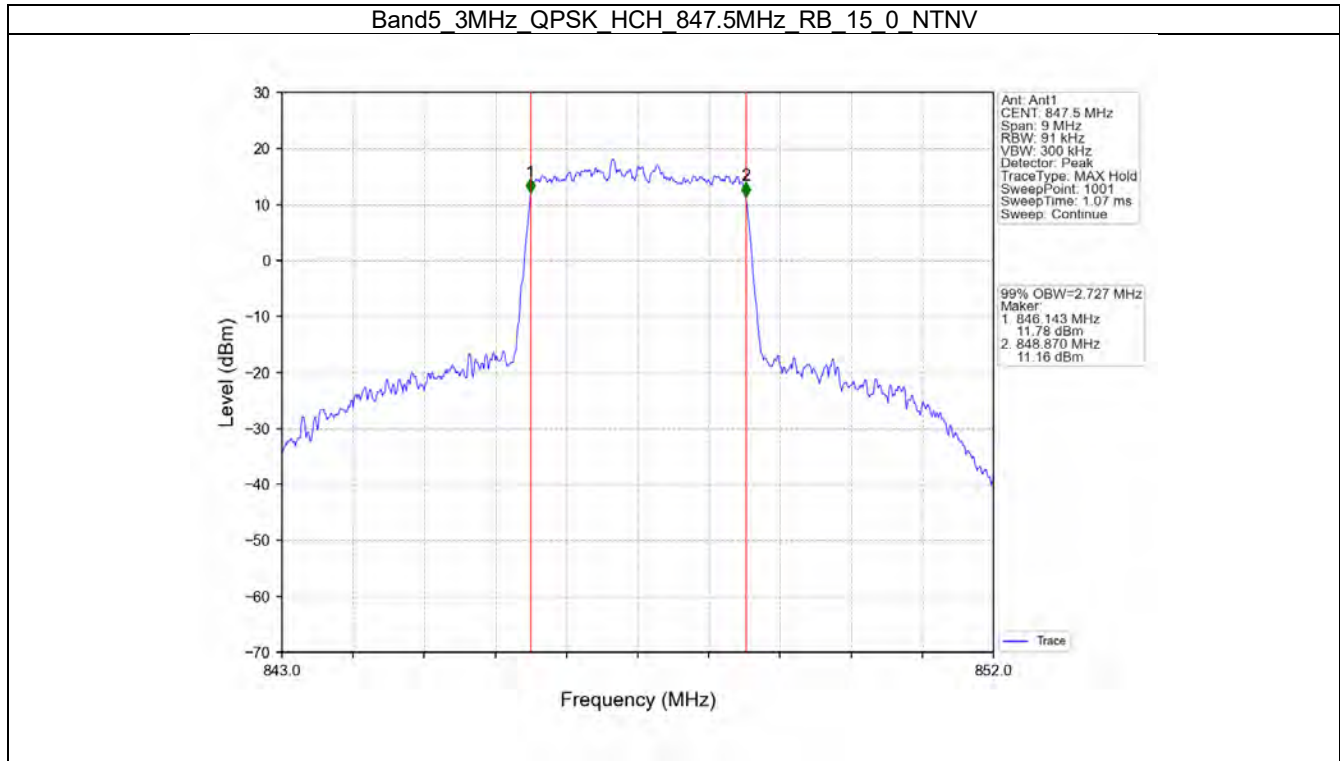


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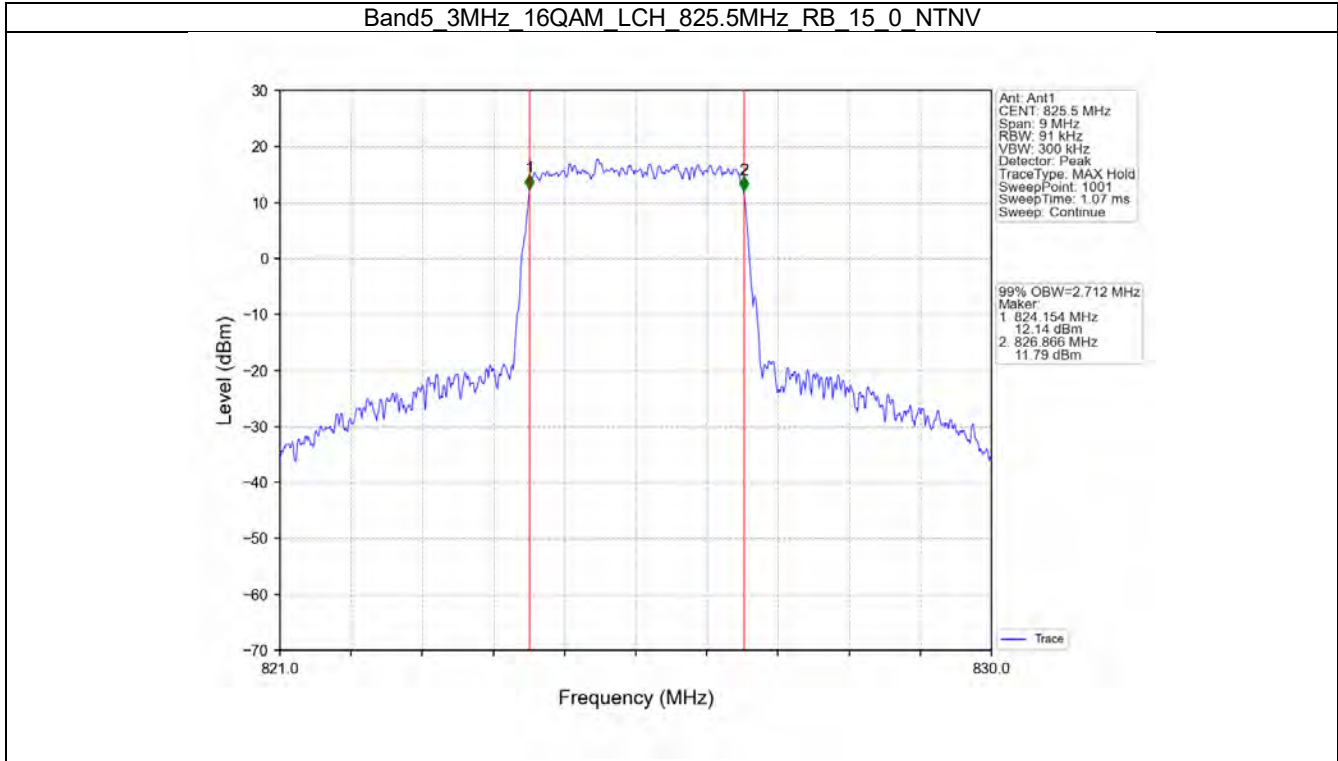


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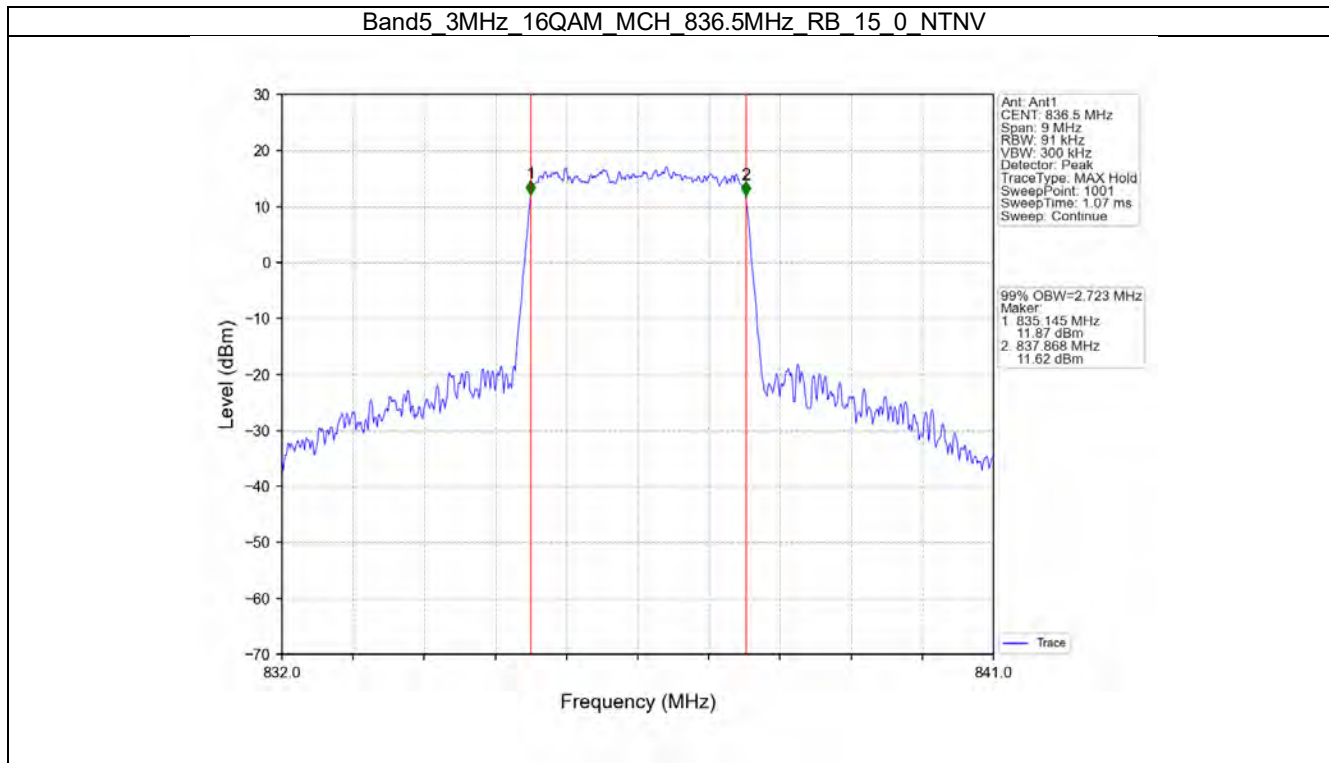
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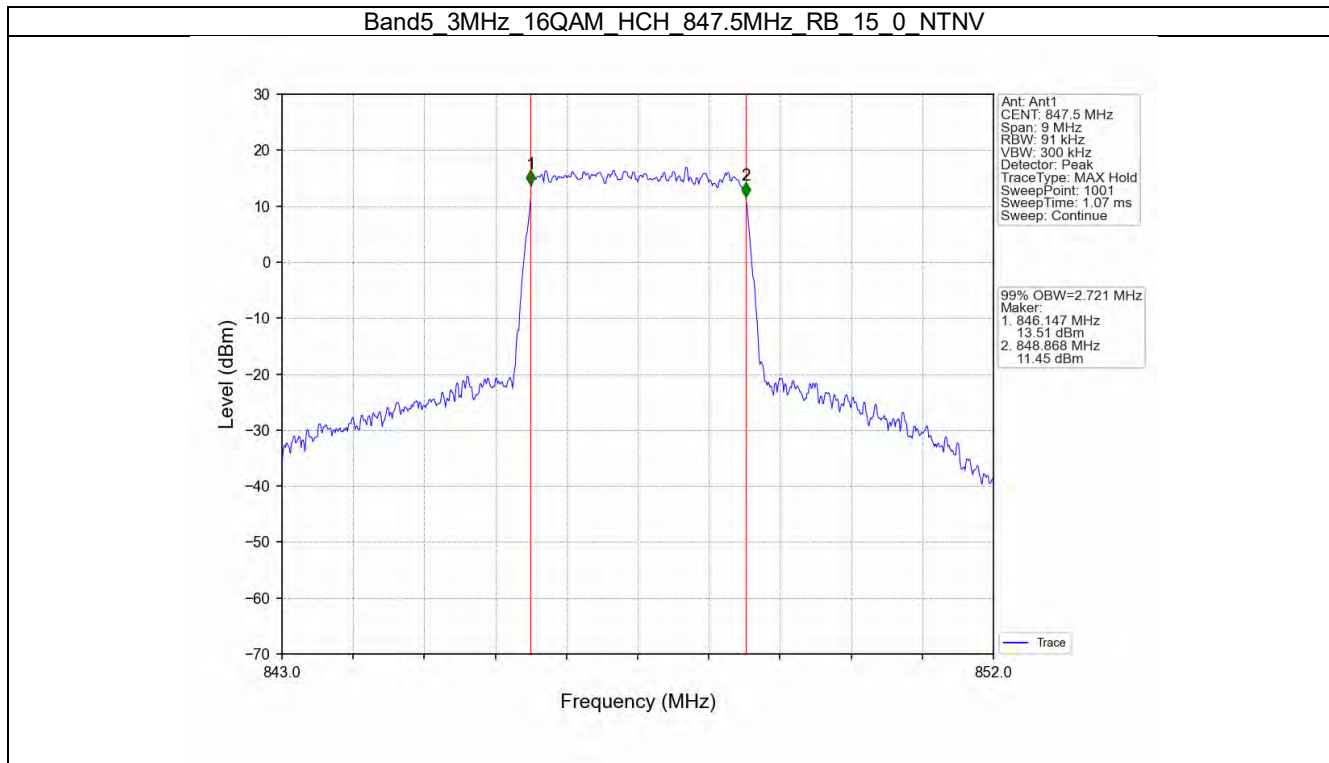
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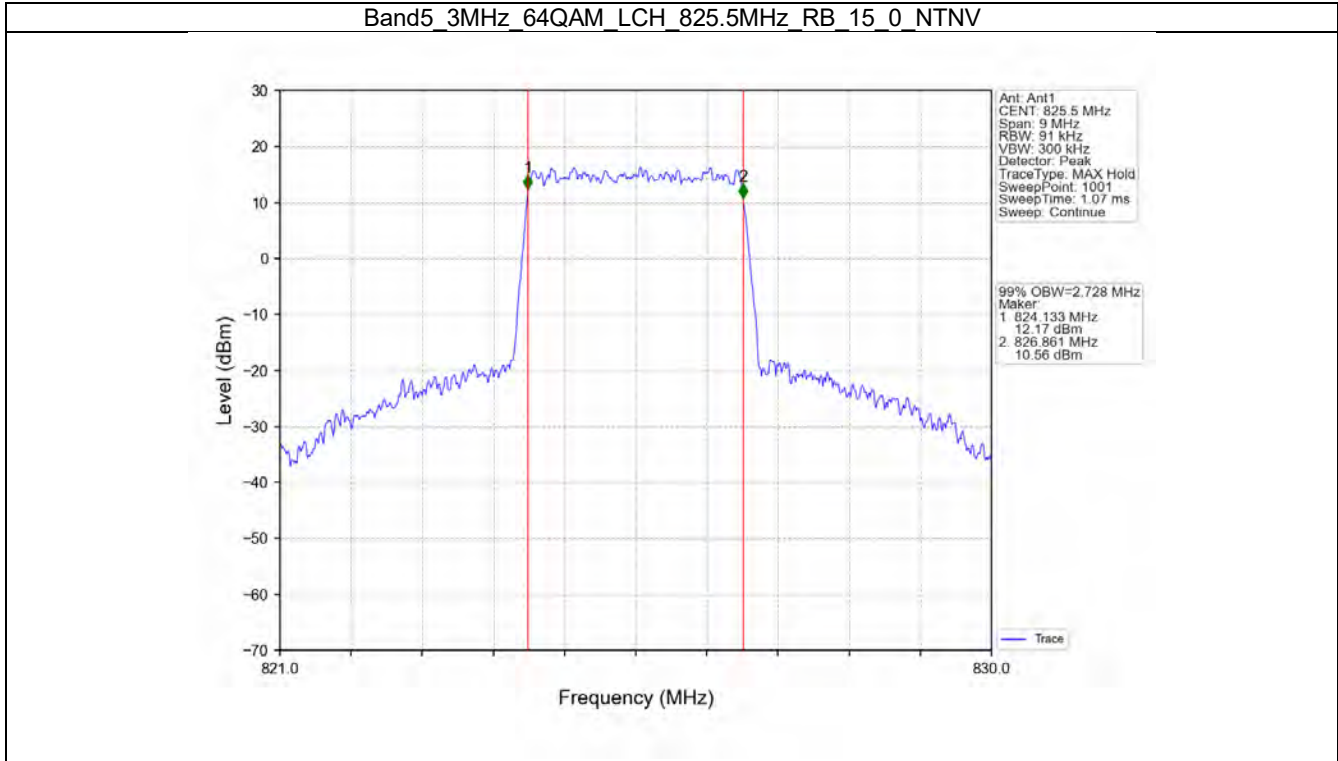


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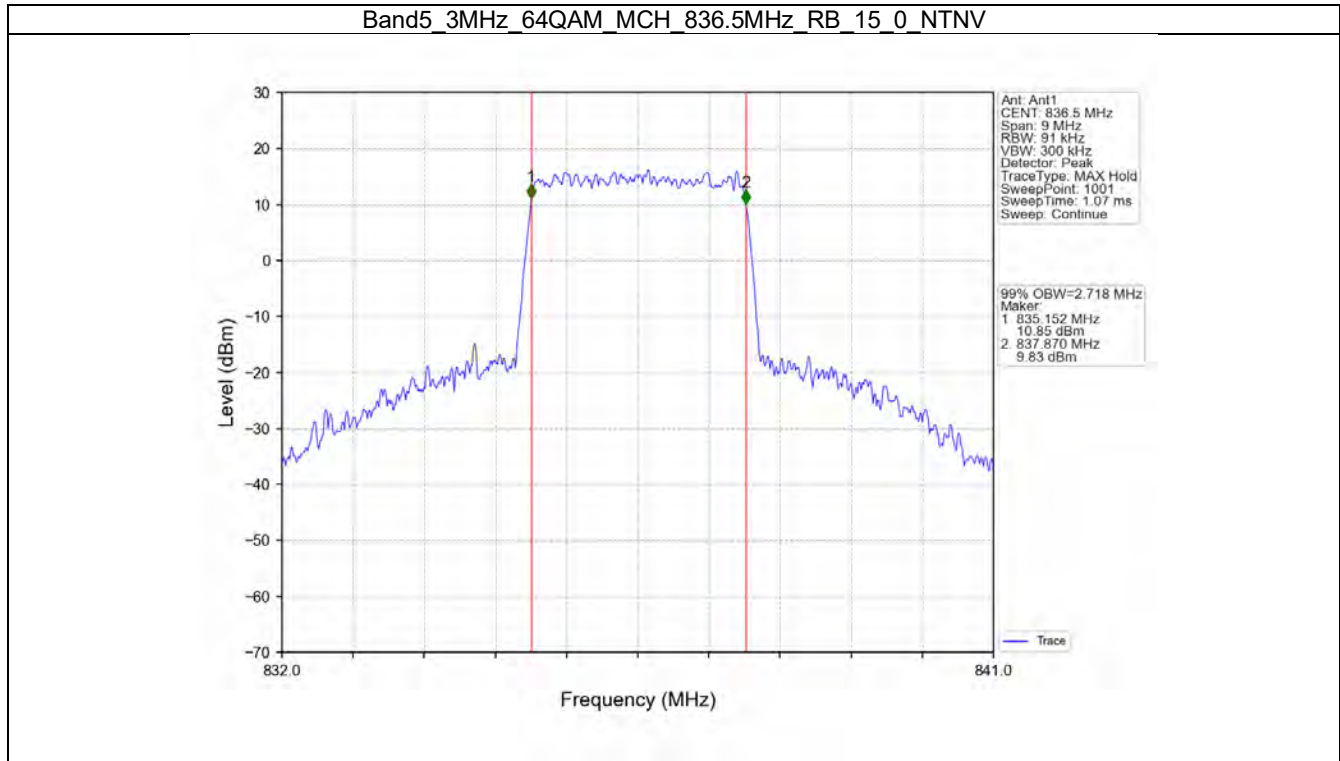


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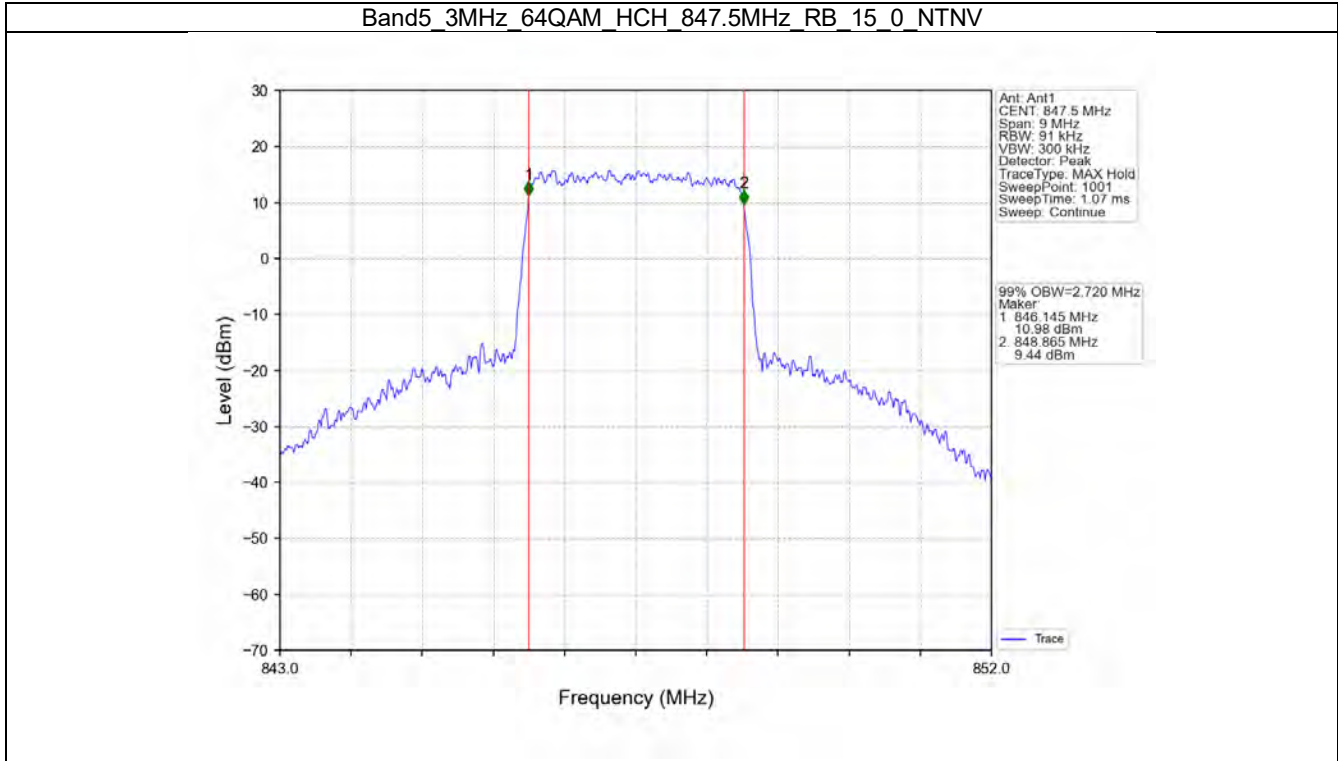


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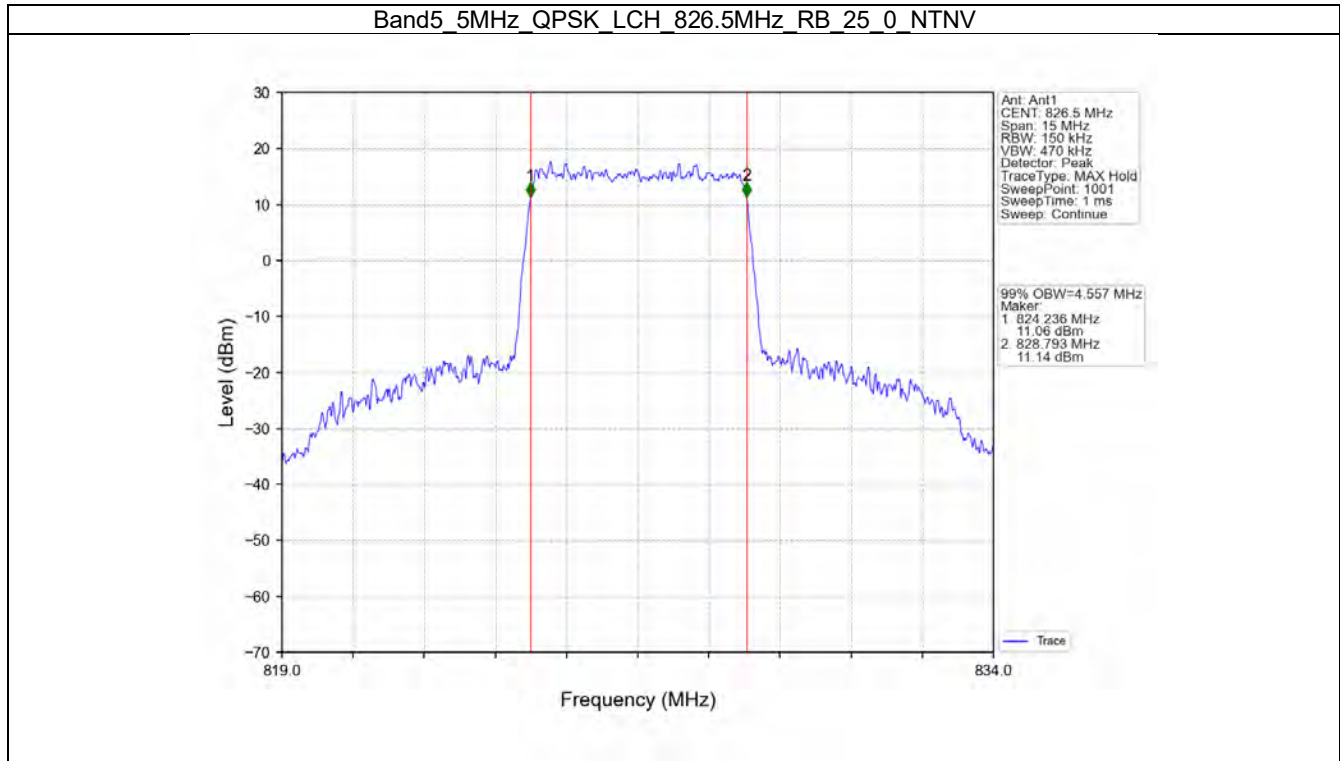


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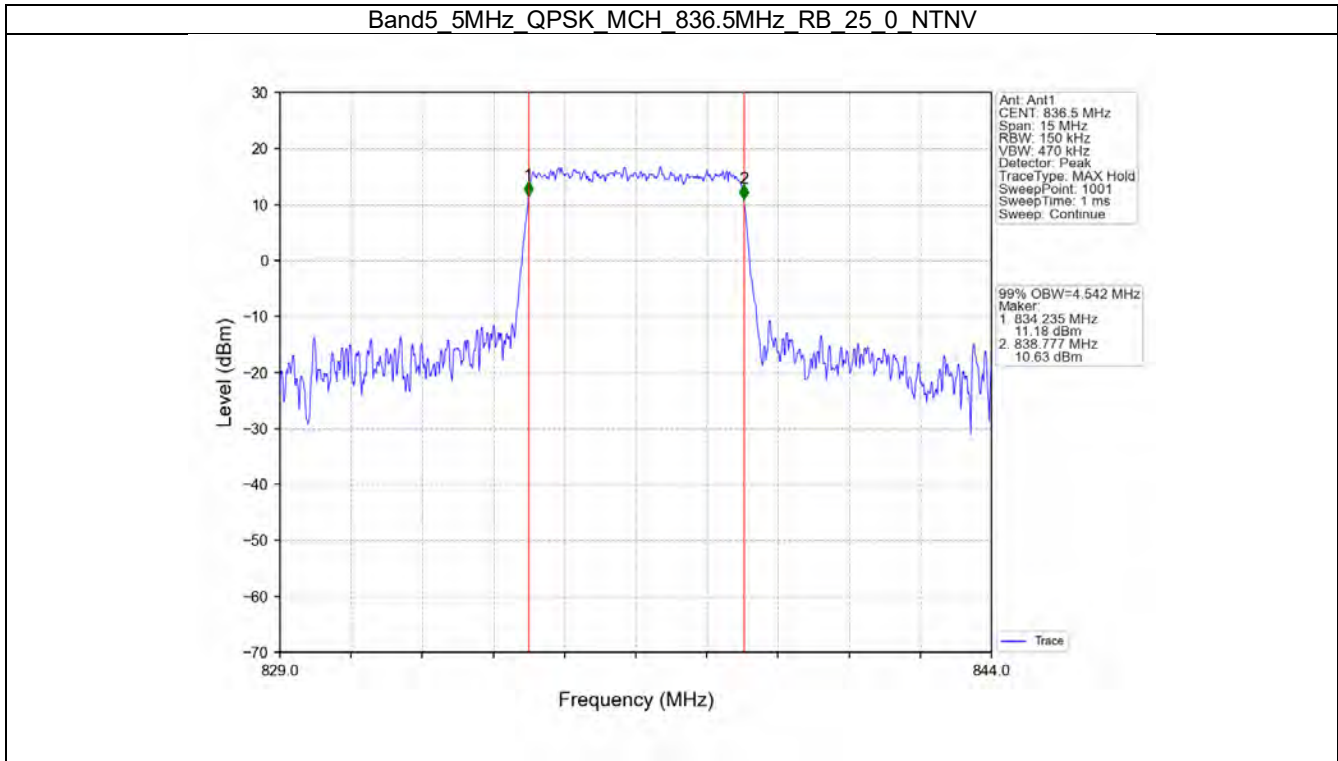


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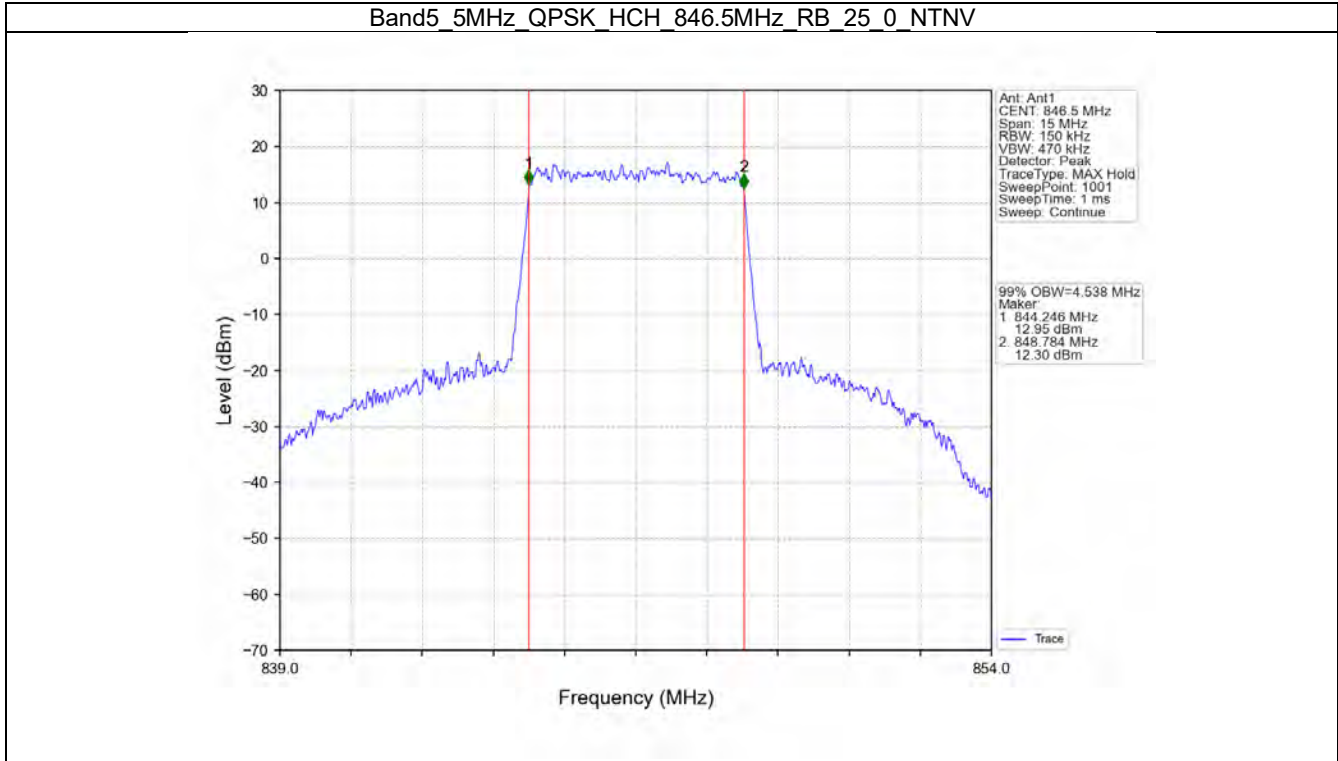


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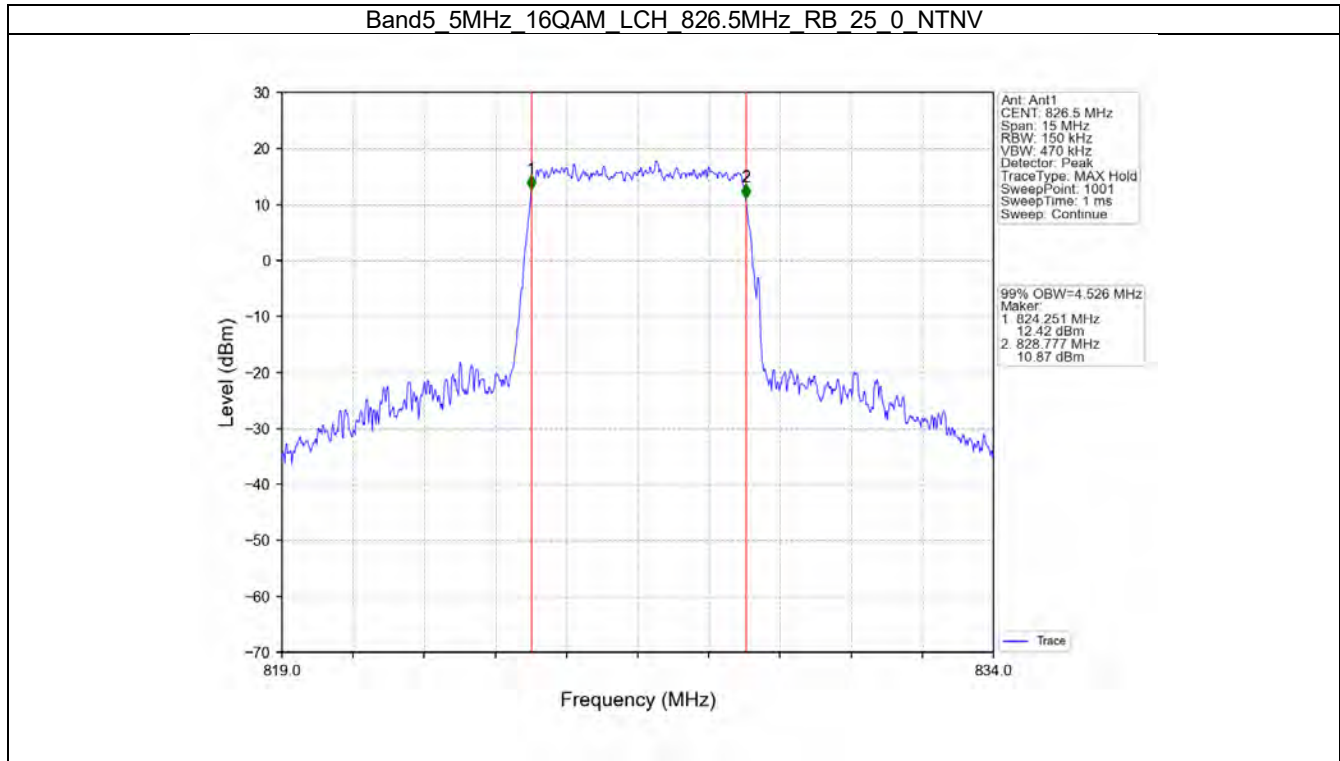


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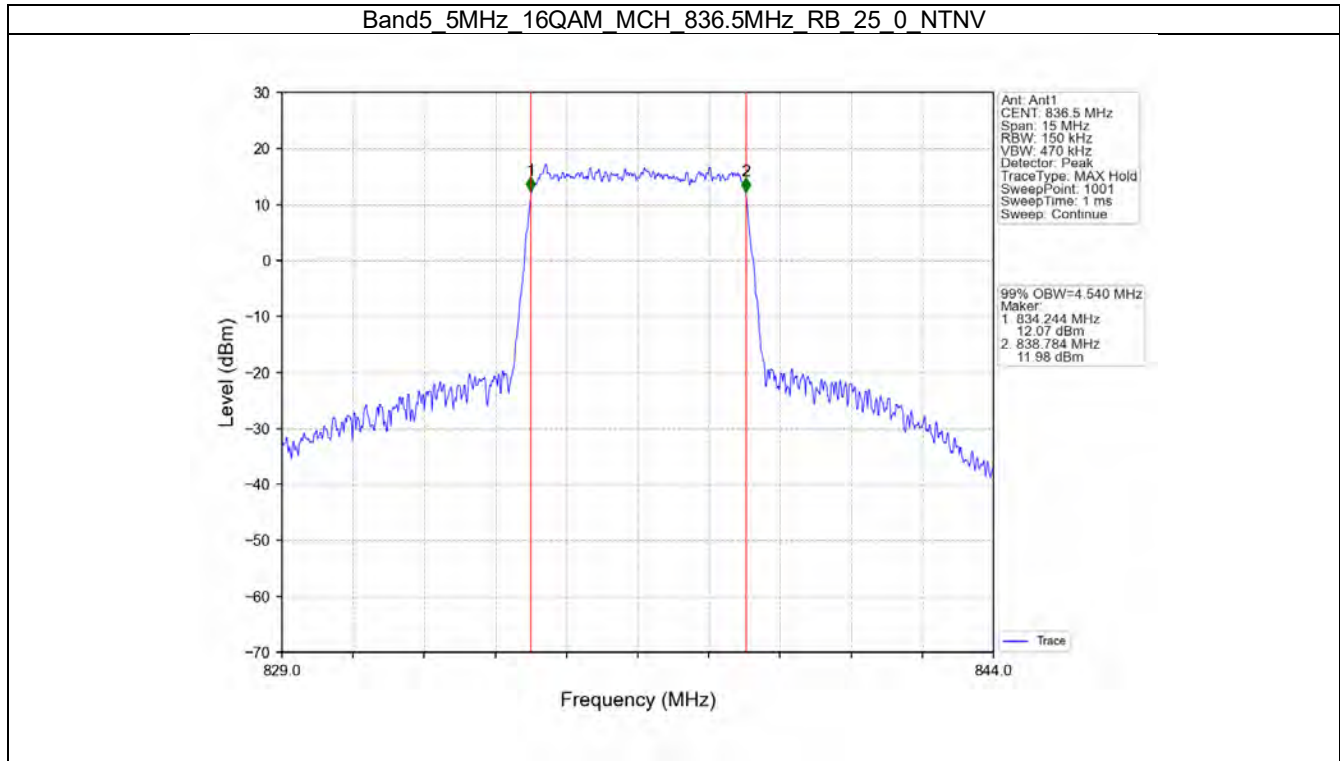


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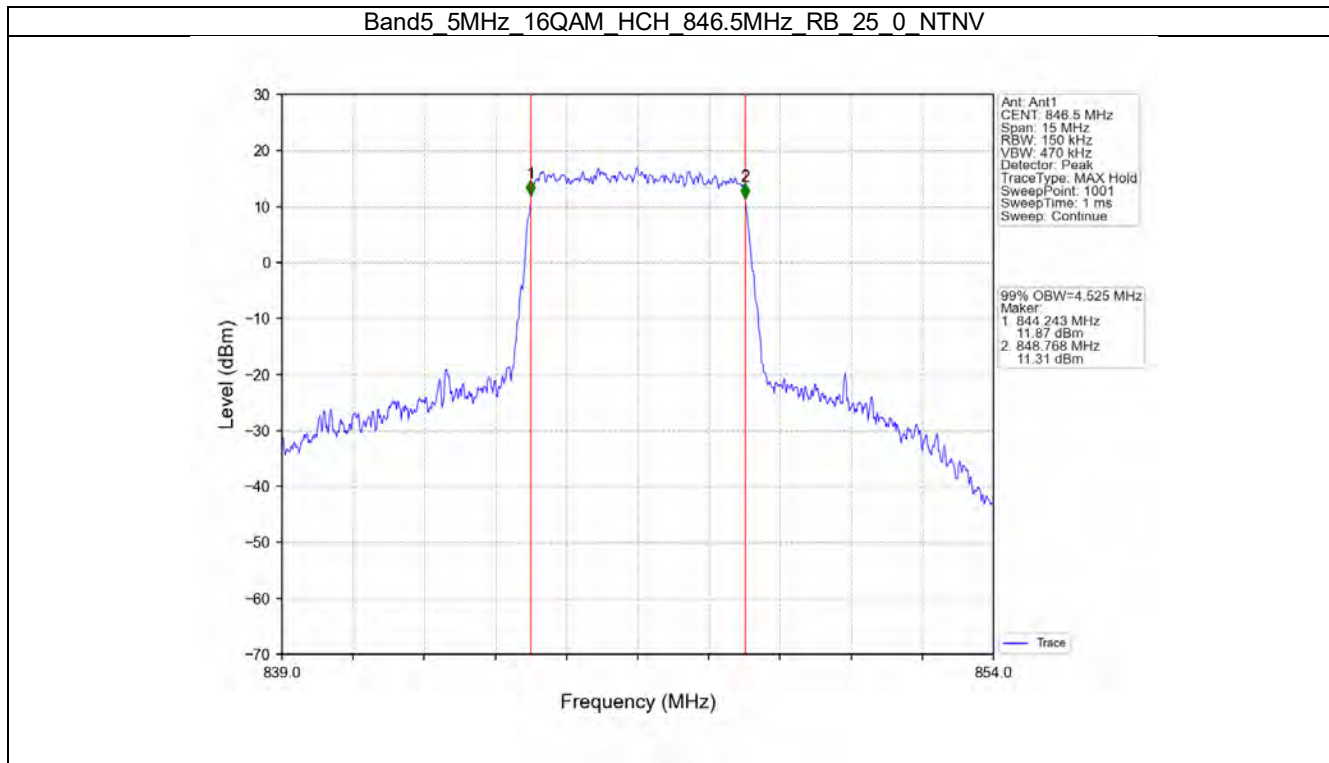
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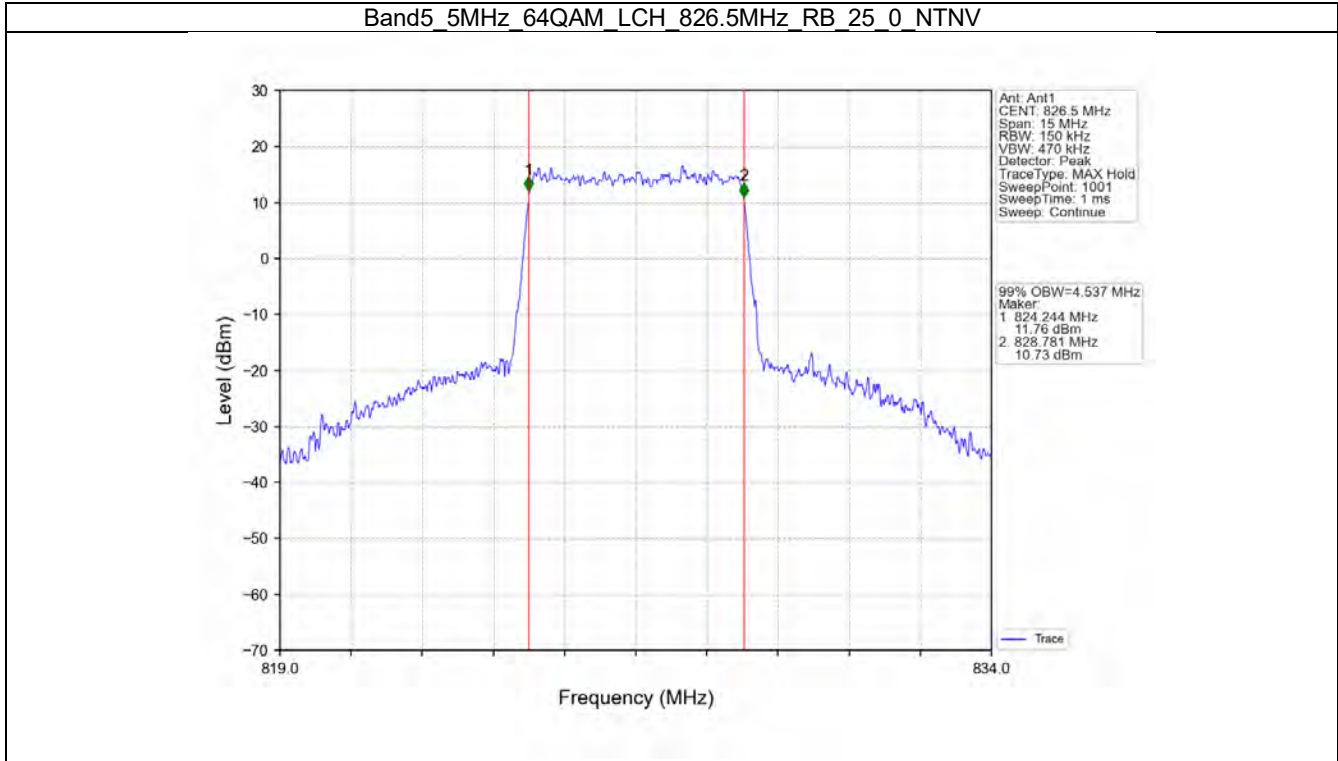


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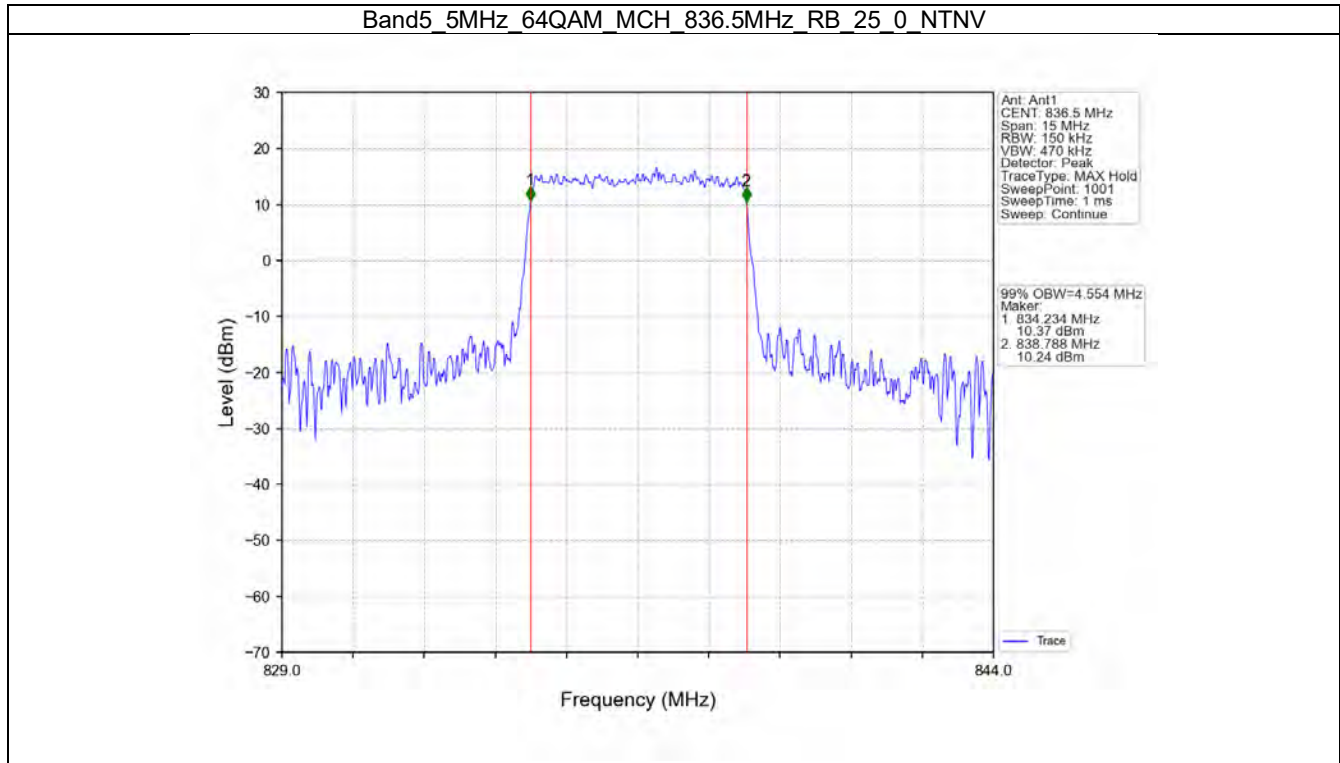


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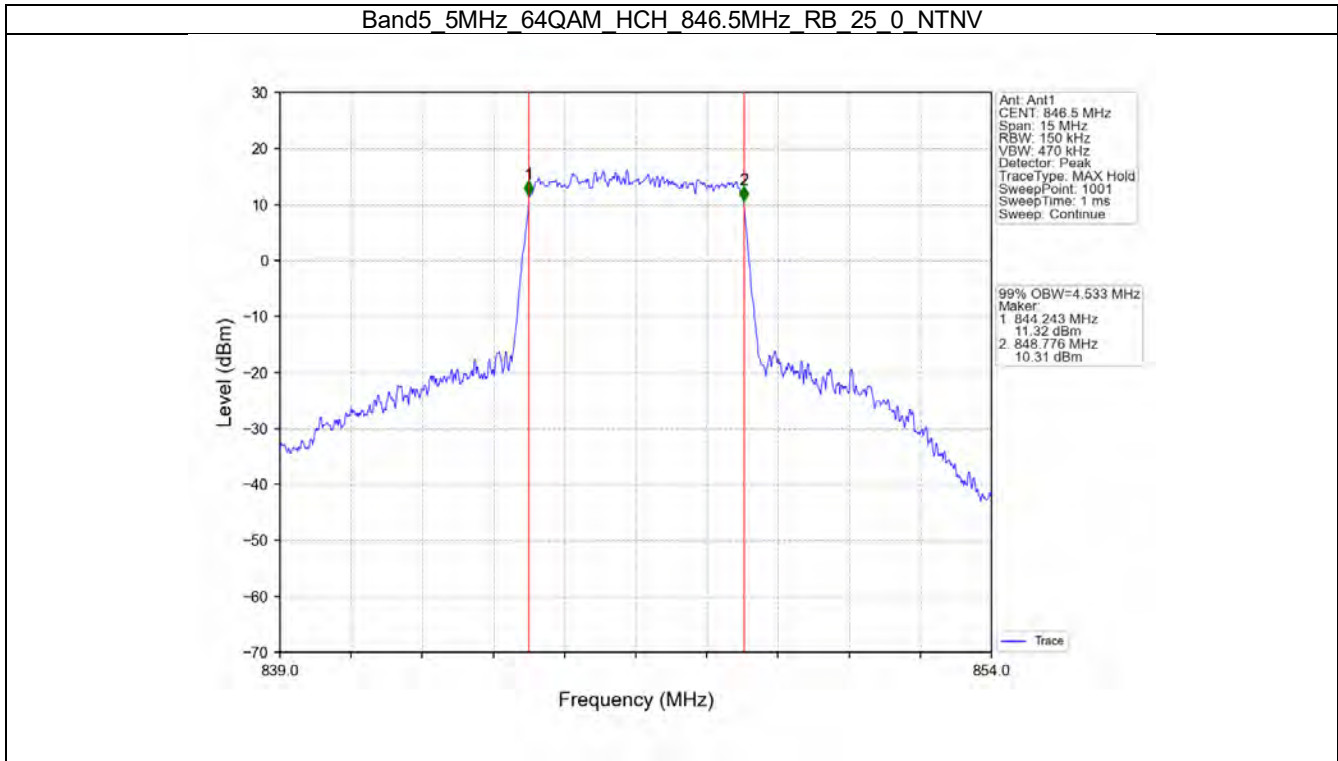


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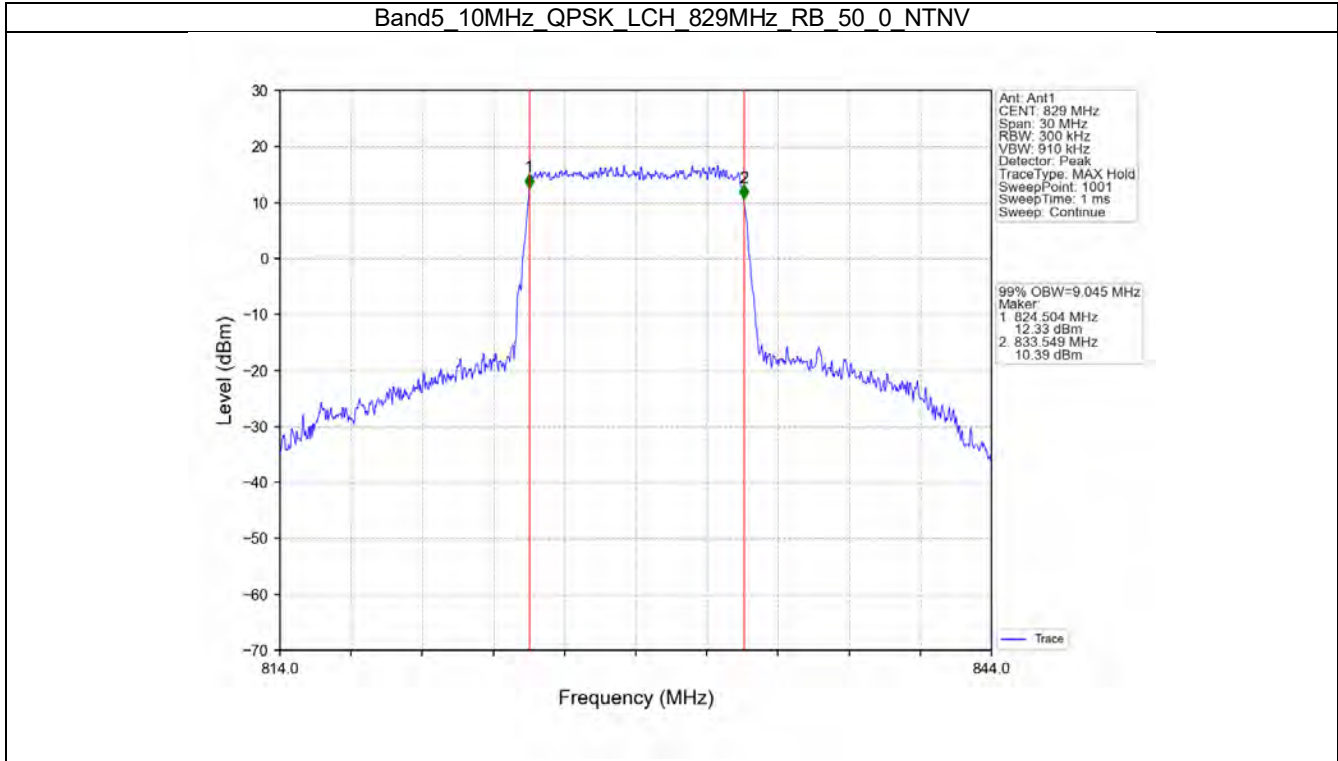


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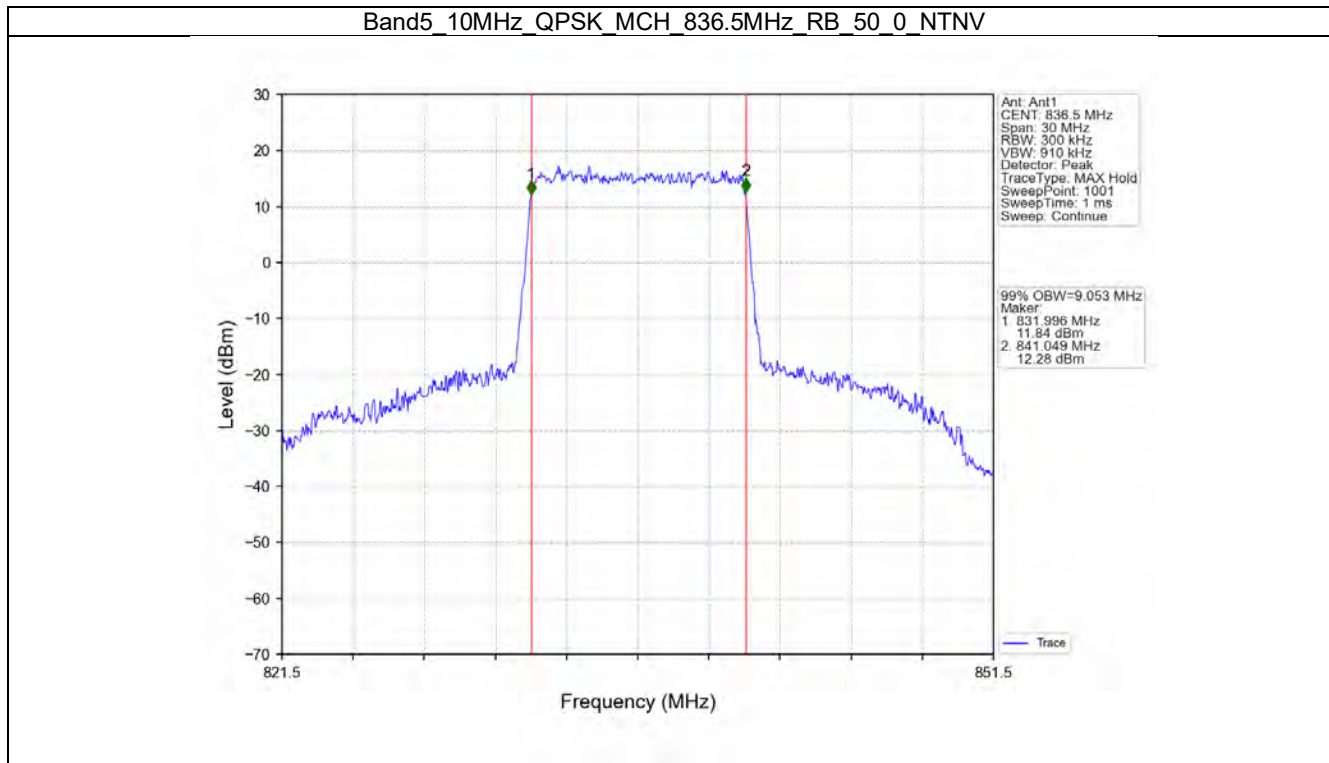
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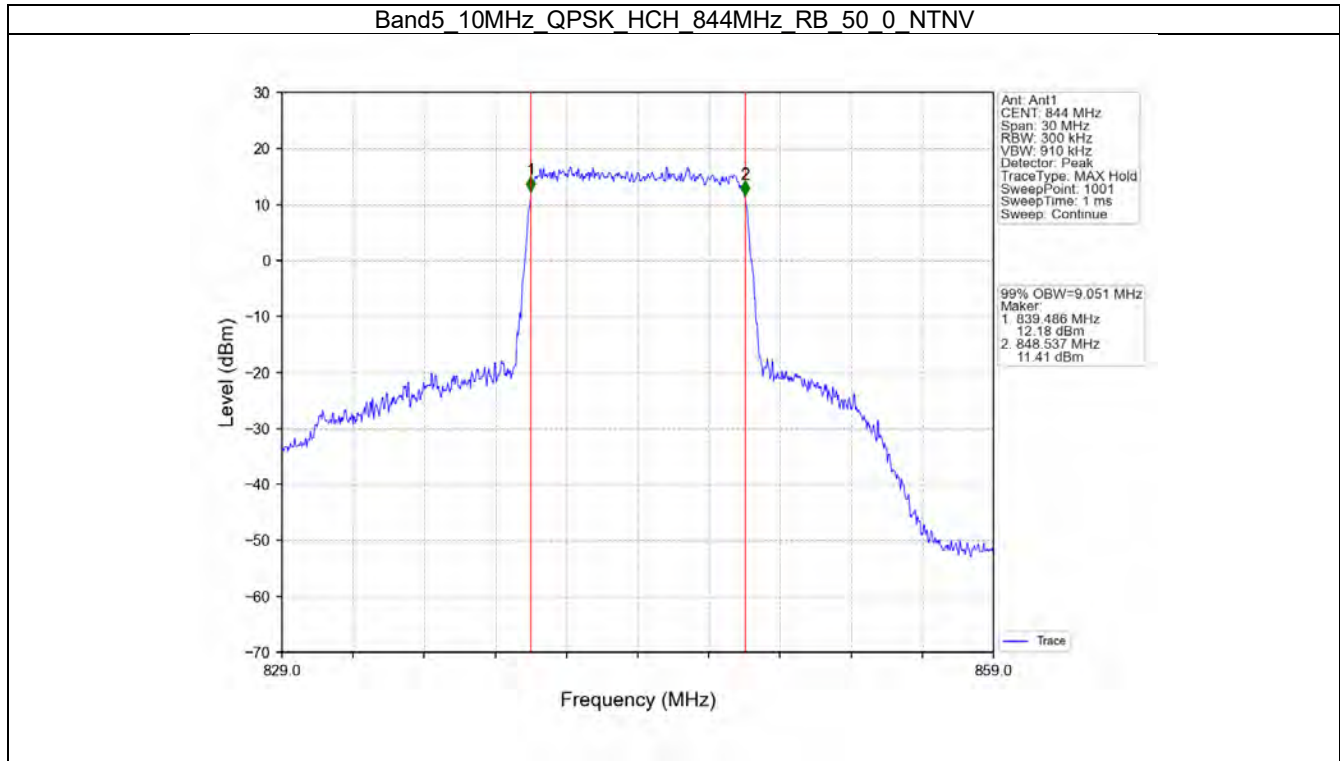


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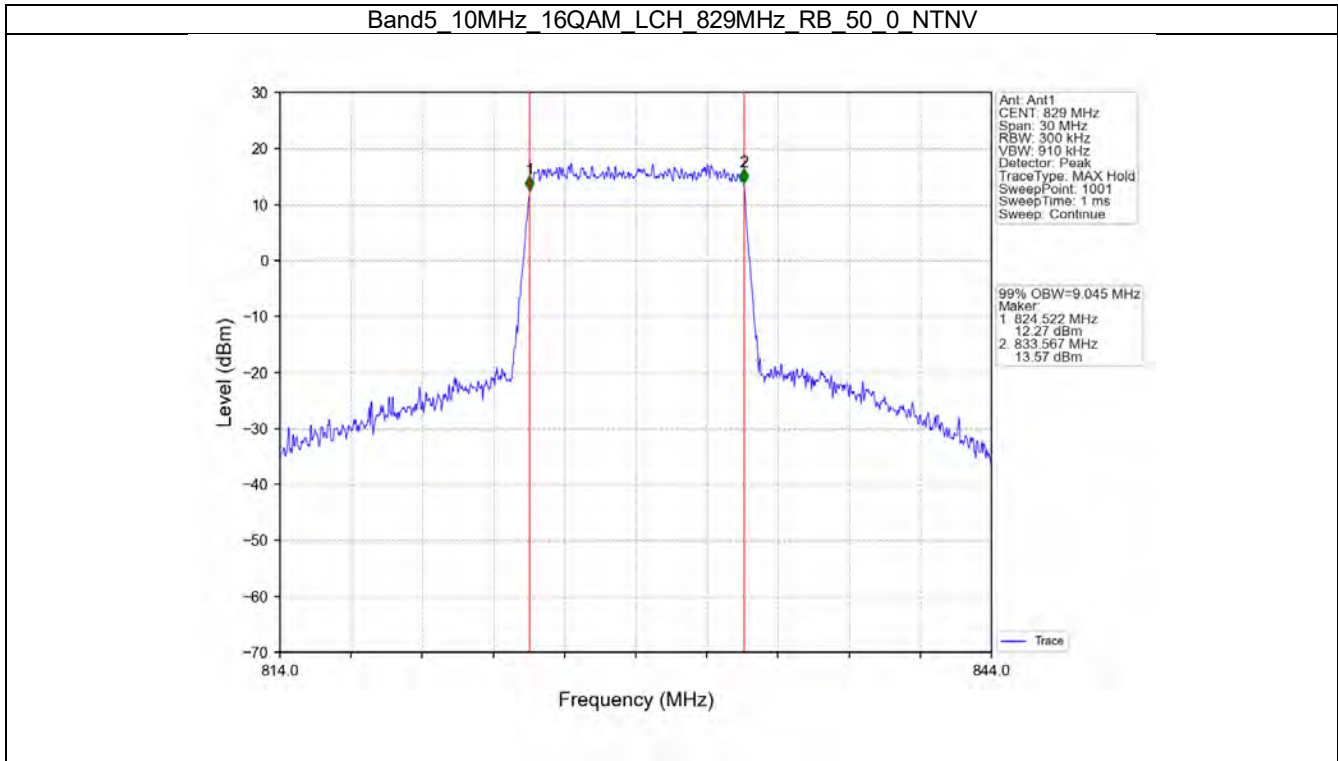


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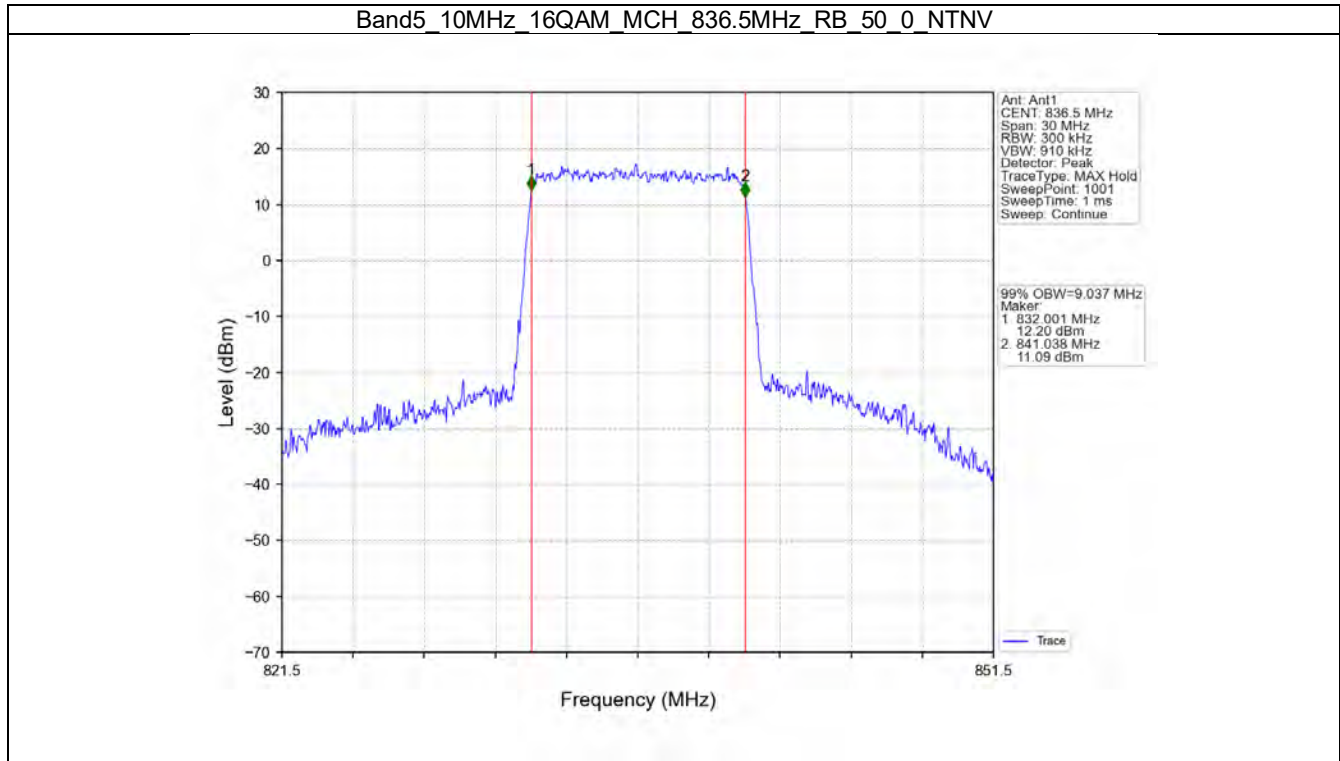


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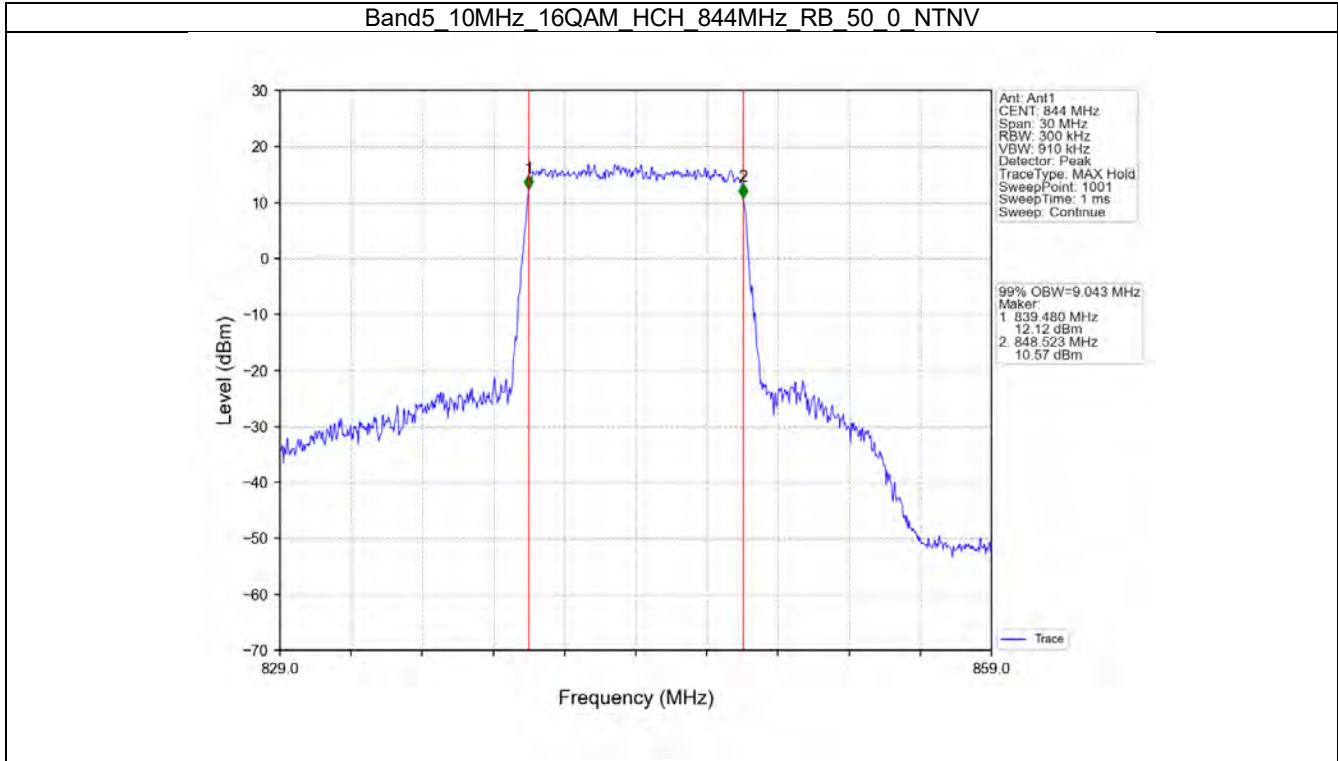


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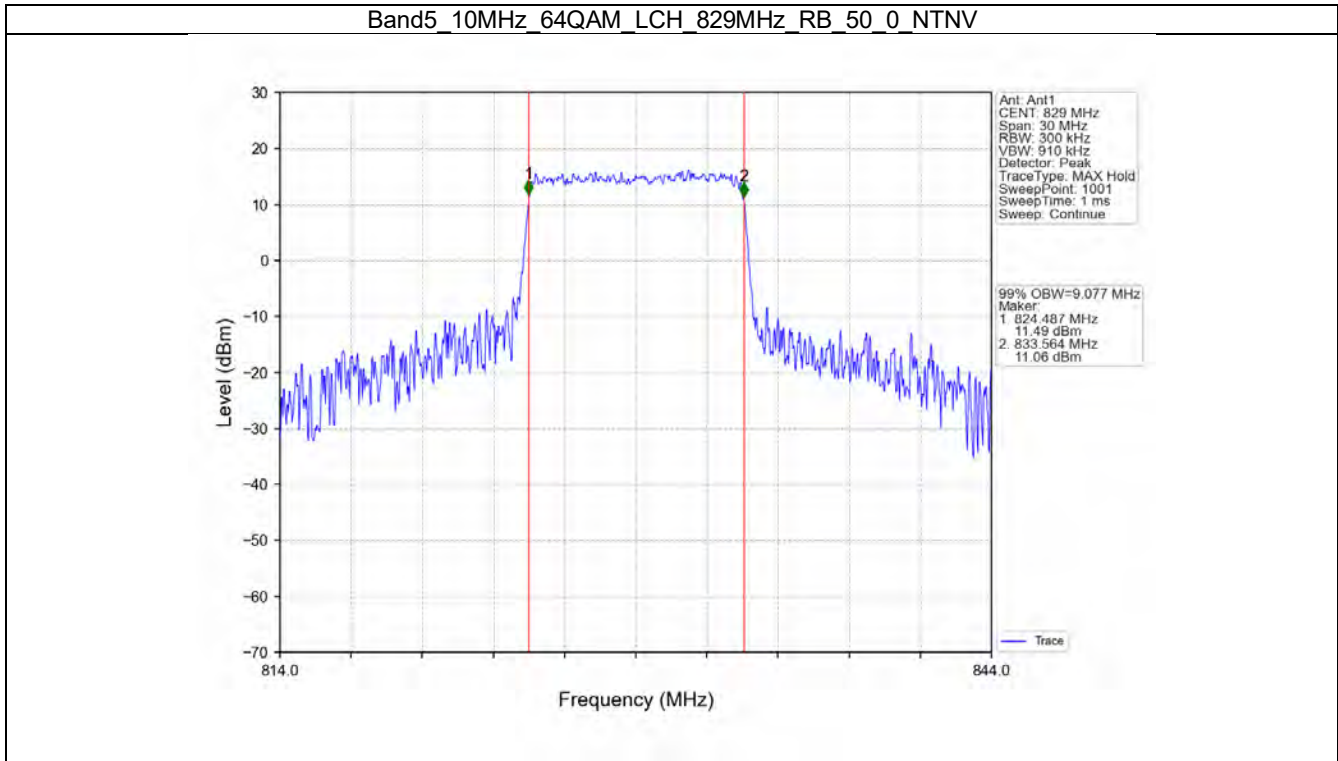


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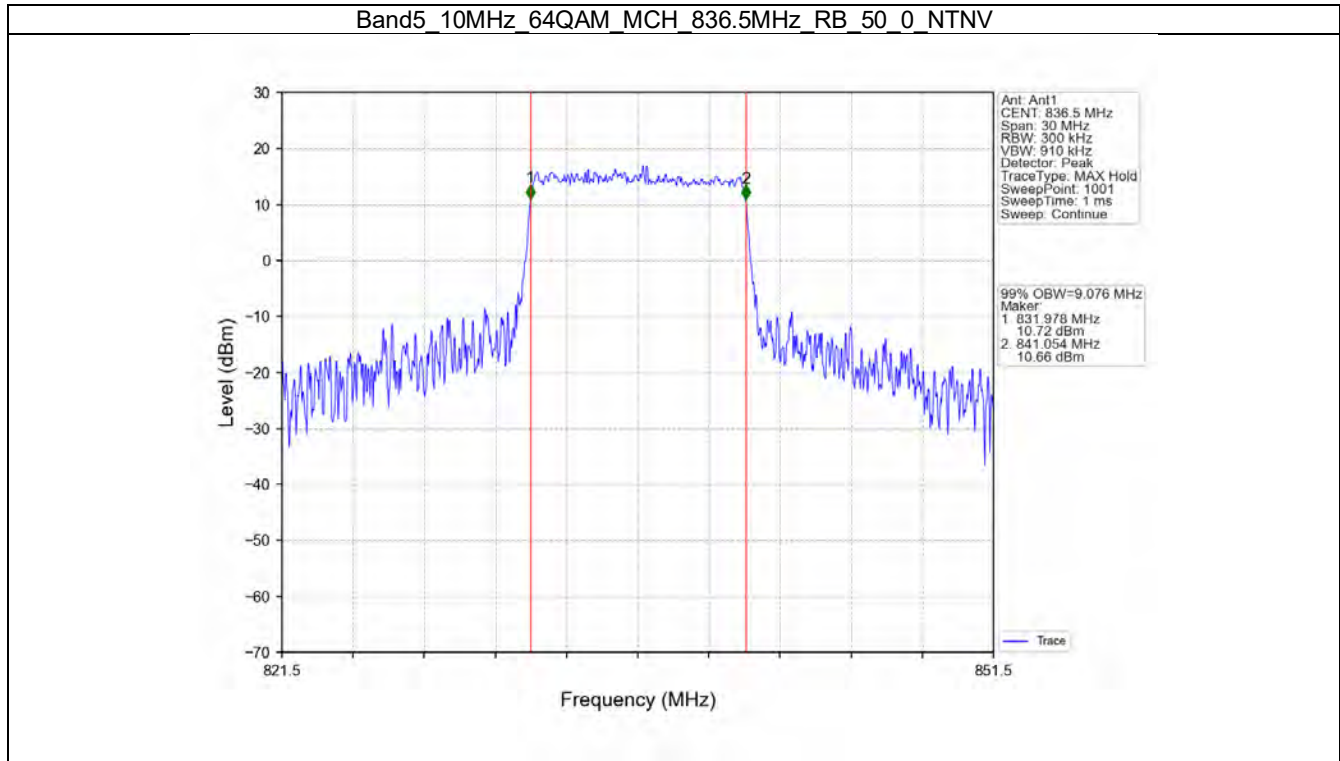


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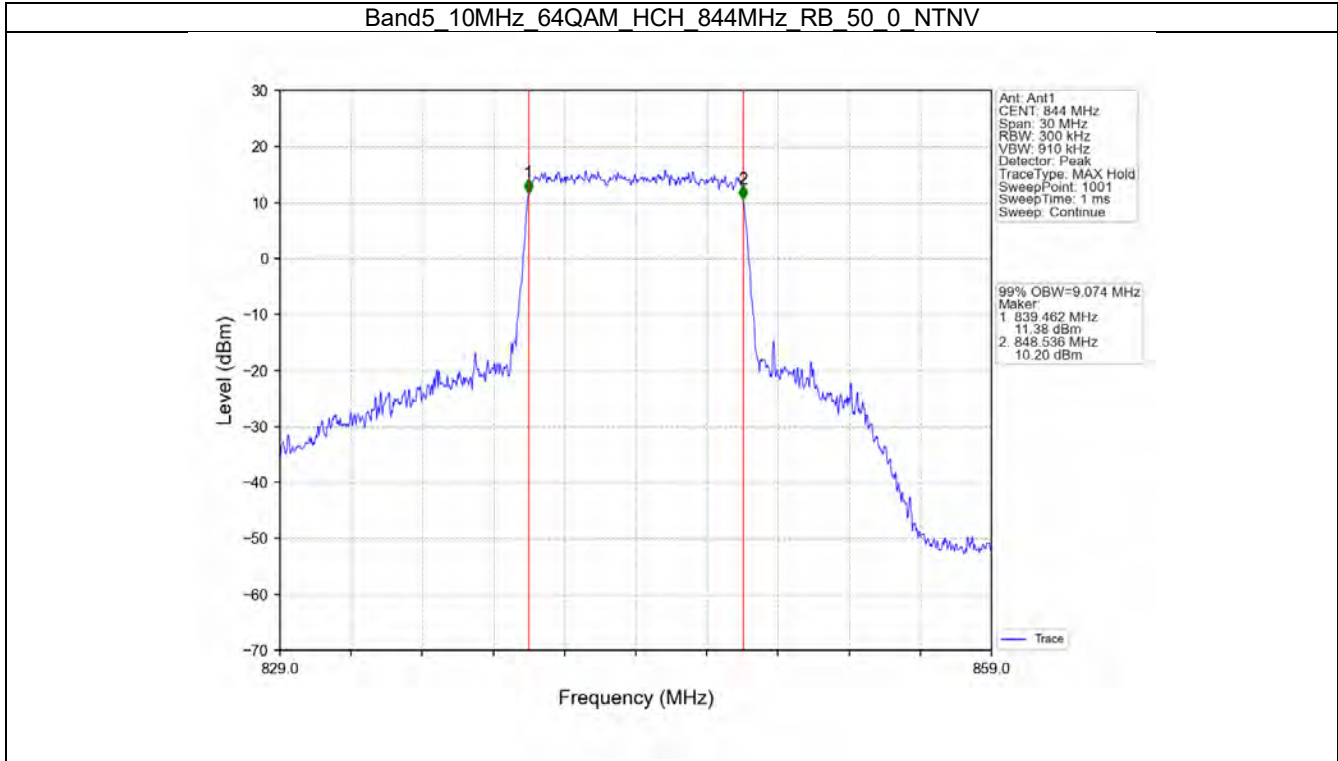


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3.2 Band5_XDB

3.2.1 Test Result

Band: 5 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.329	/	Pass
		836.5	6	0	1.310	/	Pass
		848.3	6	0	1.306	/	Pass
	16QAM	824.7	6	0	1.300	/	Pass
		836.5	6	0	1.312	/	Pass
		848.3	6	0	1.326	/	Pass
	64QAM	824.7	6	0	1.336	/	Pass
		836.5	6	0	1.306	/	Pass
		848.3	6	0	1.323	/	Pass
3	QPSK	825.5	15	0	2.999	/	Pass
		836.5	15	0	2.999	/	Pass
		847.5	15	0	2.992	/	Pass
	16QAM	825.5	15	0	3.002	/	Pass
		836.5	15	0	2.992	/	Pass
		847.5	15	0	2.995	/	Pass
	64QAM	825.5	15	0	3.009	/	Pass
		836.5	15	0	2.988	/	Pass
		847.5	15	0	3.000	/	Pass
5	QPSK	826.5	25	0	5.026	/	Pass
		836.5	25	0	5.056	/	Pass
		846.5	25	0	5.020	/	Pass
	16QAM	826.5	25	0	5.062	/	Pass
		836.5	25	0	5.036	/	Pass
		846.5	25	0	5.037	/	Pass
	64QAM	826.5	25	0	5.055	/	Pass
		836.5	25	0	5.031	/	Pass
		846.5	25	0	4.998	/	Pass
10	QPSK	829	50	0	10.042	/	Pass
		836.5	50	0	9.860	/	Pass
		844	50	0	9.886	/	Pass
	16QAM	829	50	0	9.908	/	Pass
		836.5	50	0	9.898	/	Pass
		844	50	0	9.932	/	Pass
	64QAM	829	50	0	12.169	/	Pass
		836.5	50	0	11.494	/	Pass
		844	50	0	9.924	/	Pass



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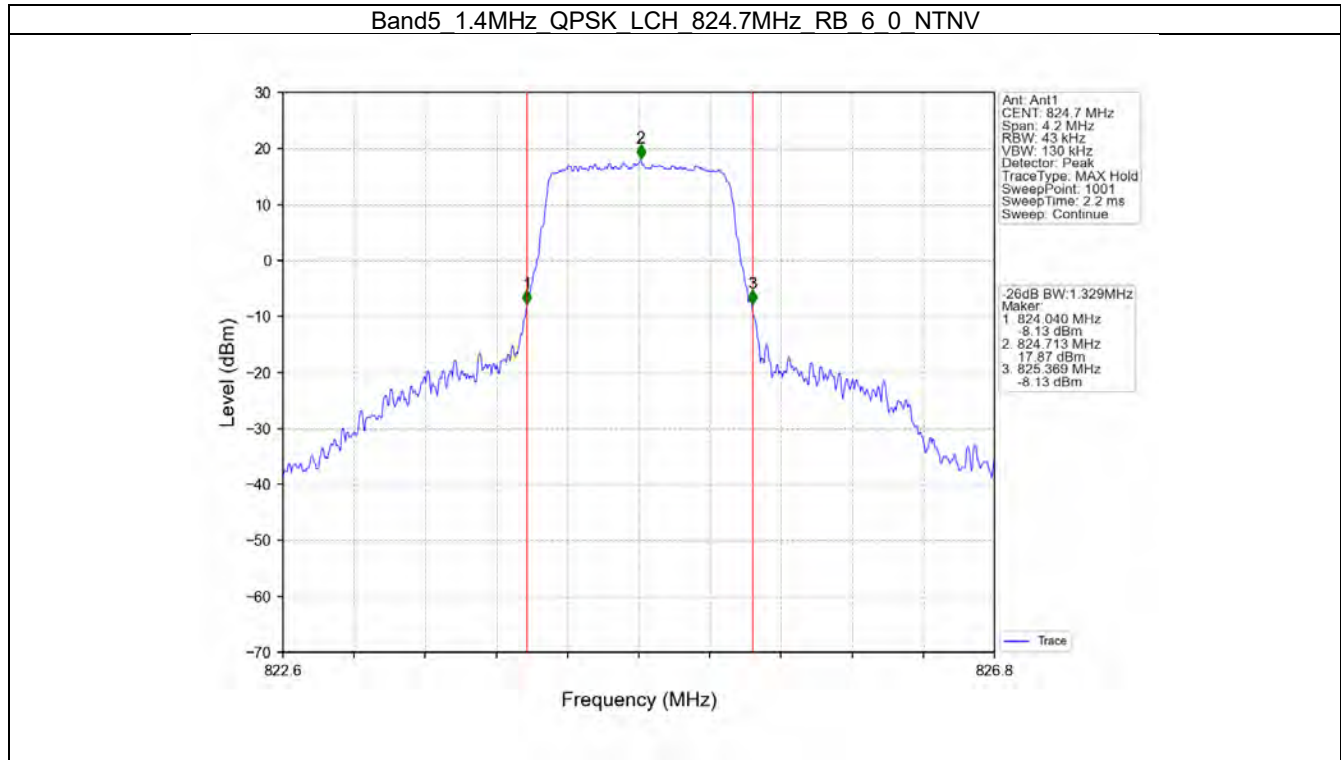
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3.2.2 Test Graph



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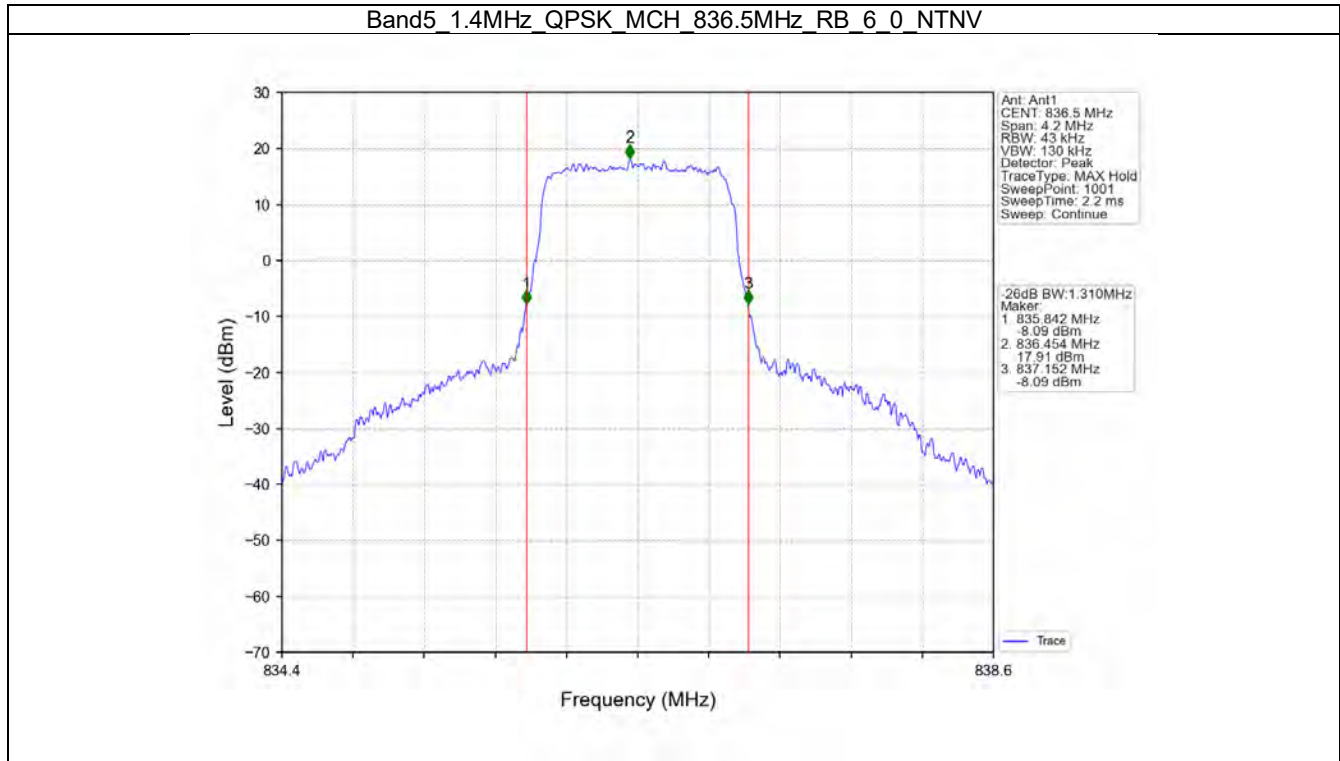


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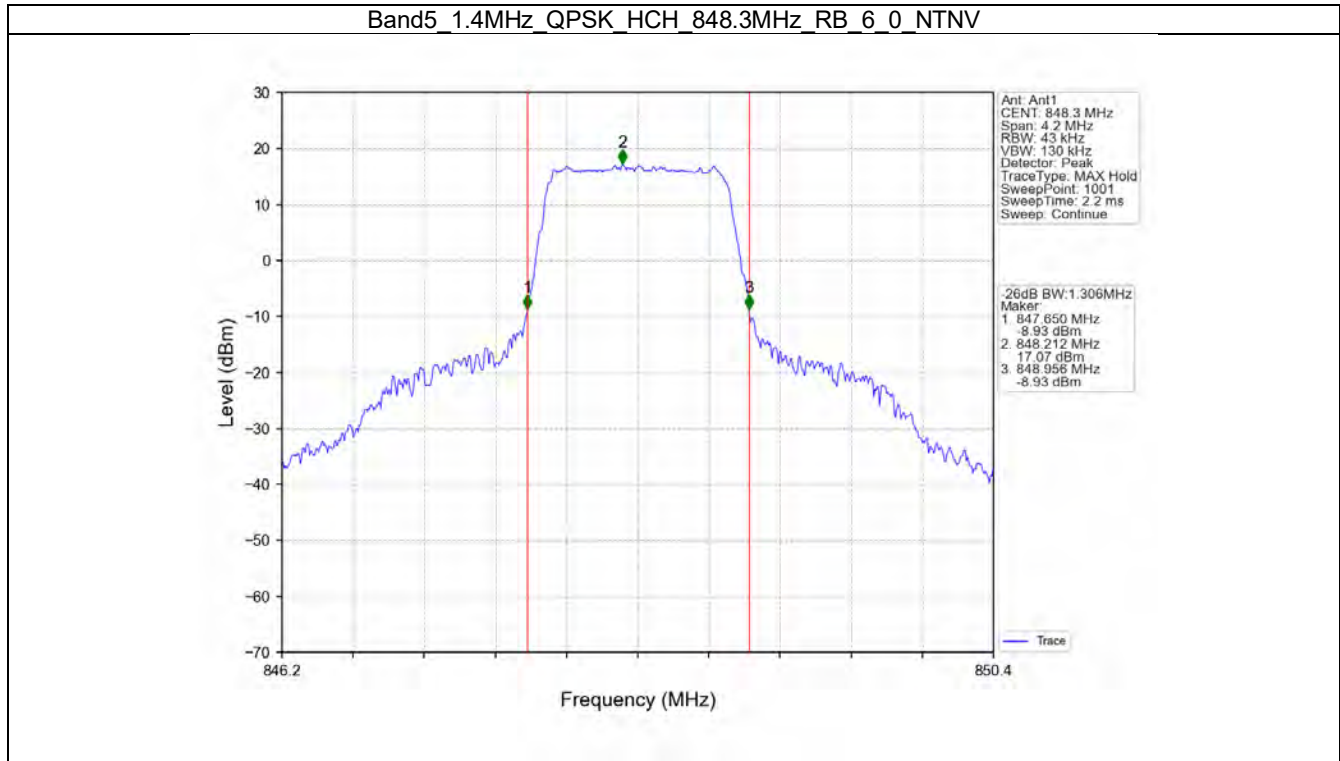


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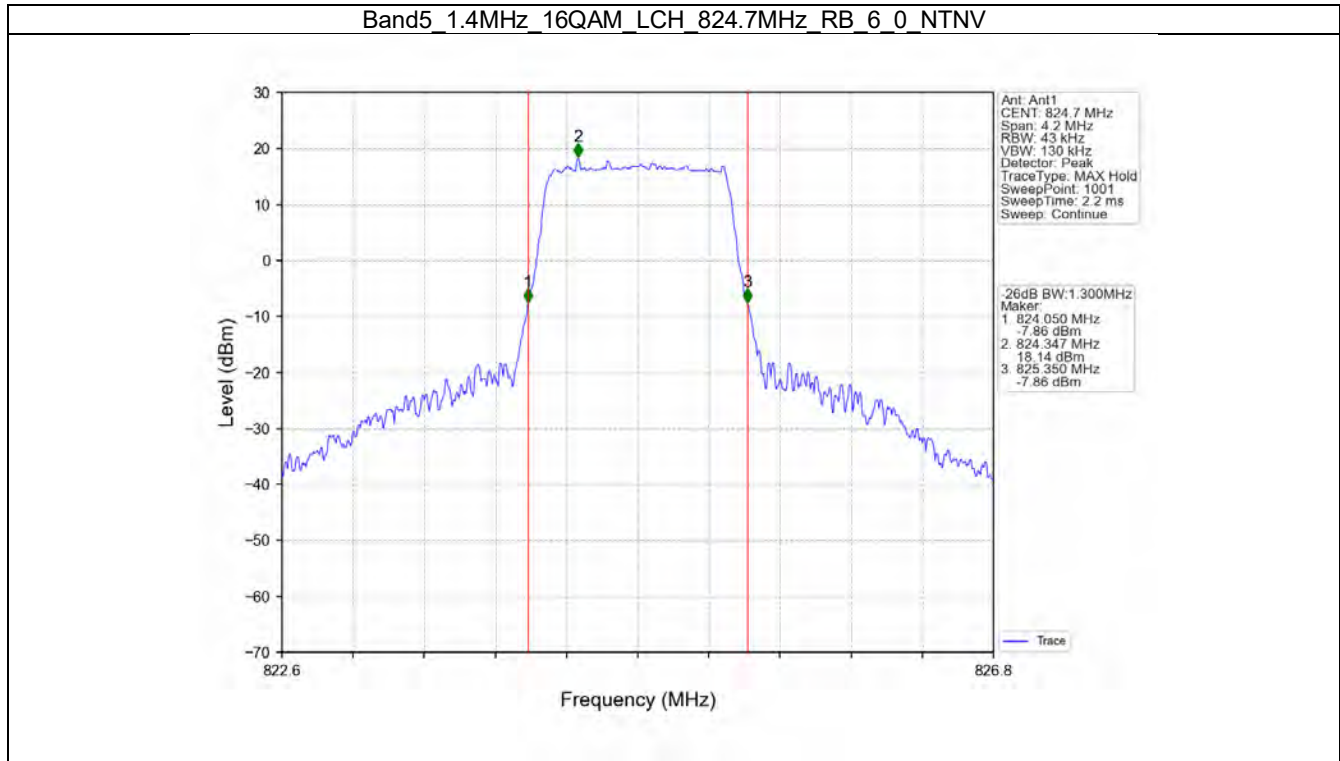


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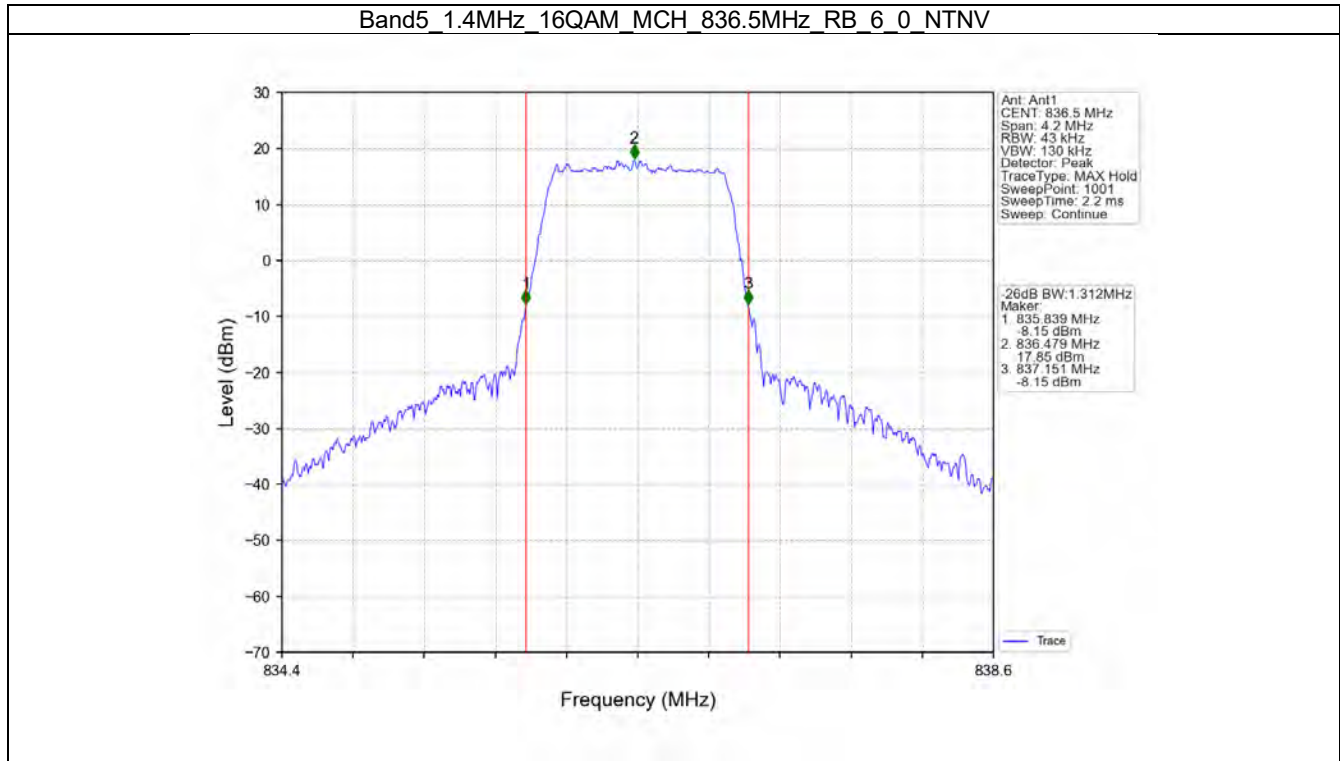


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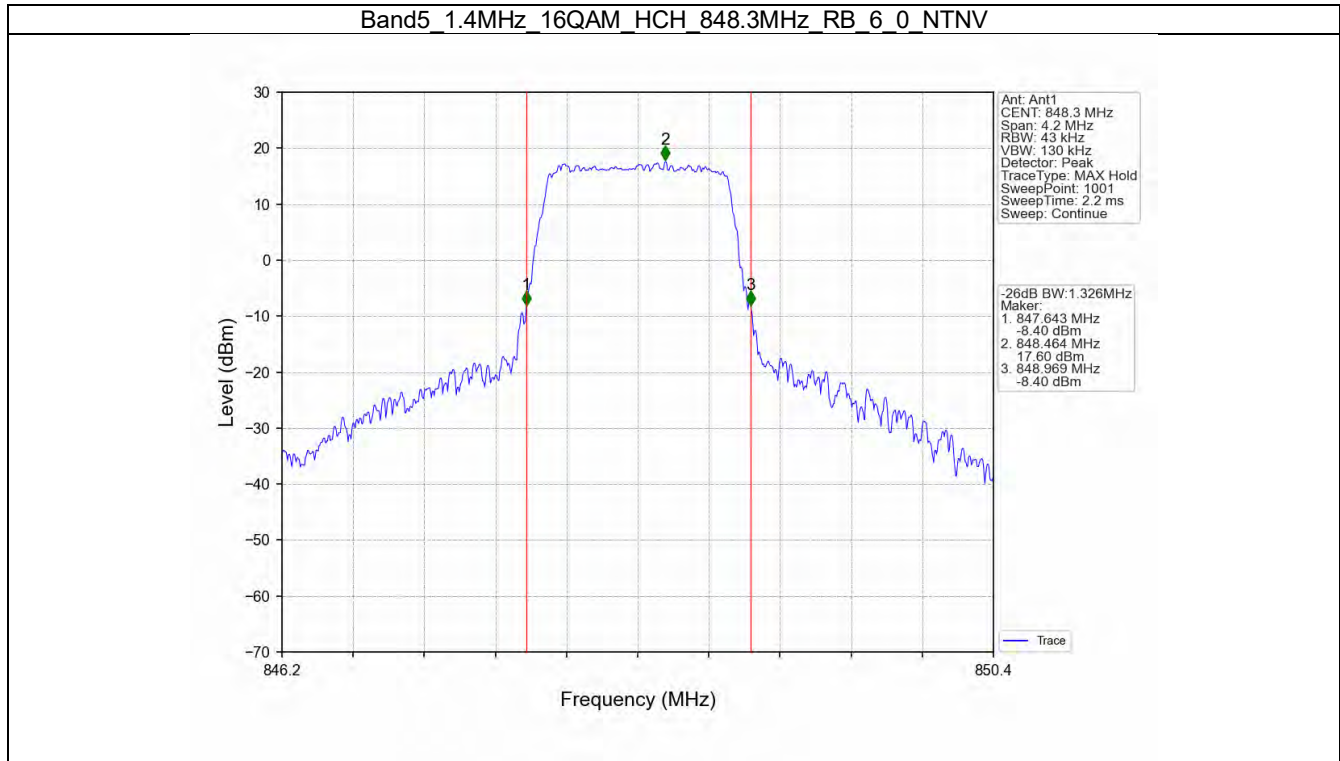


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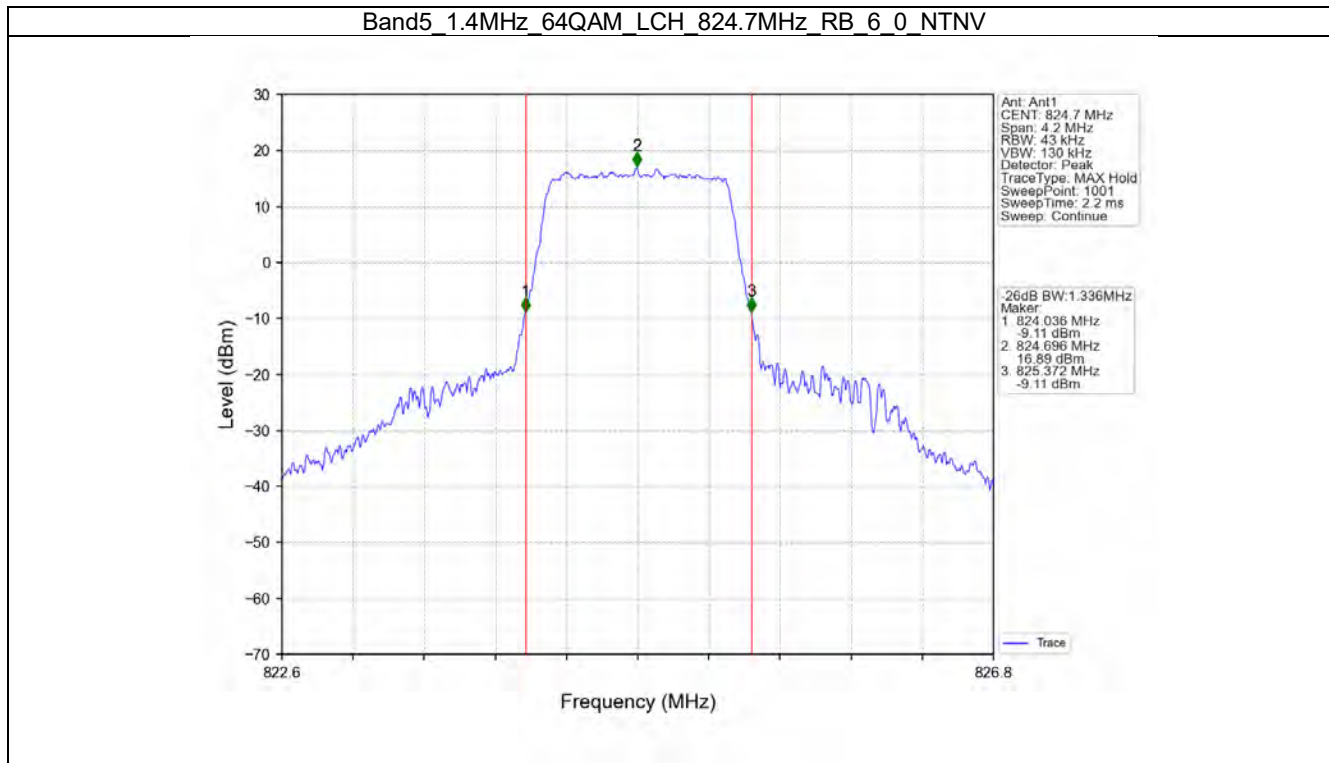
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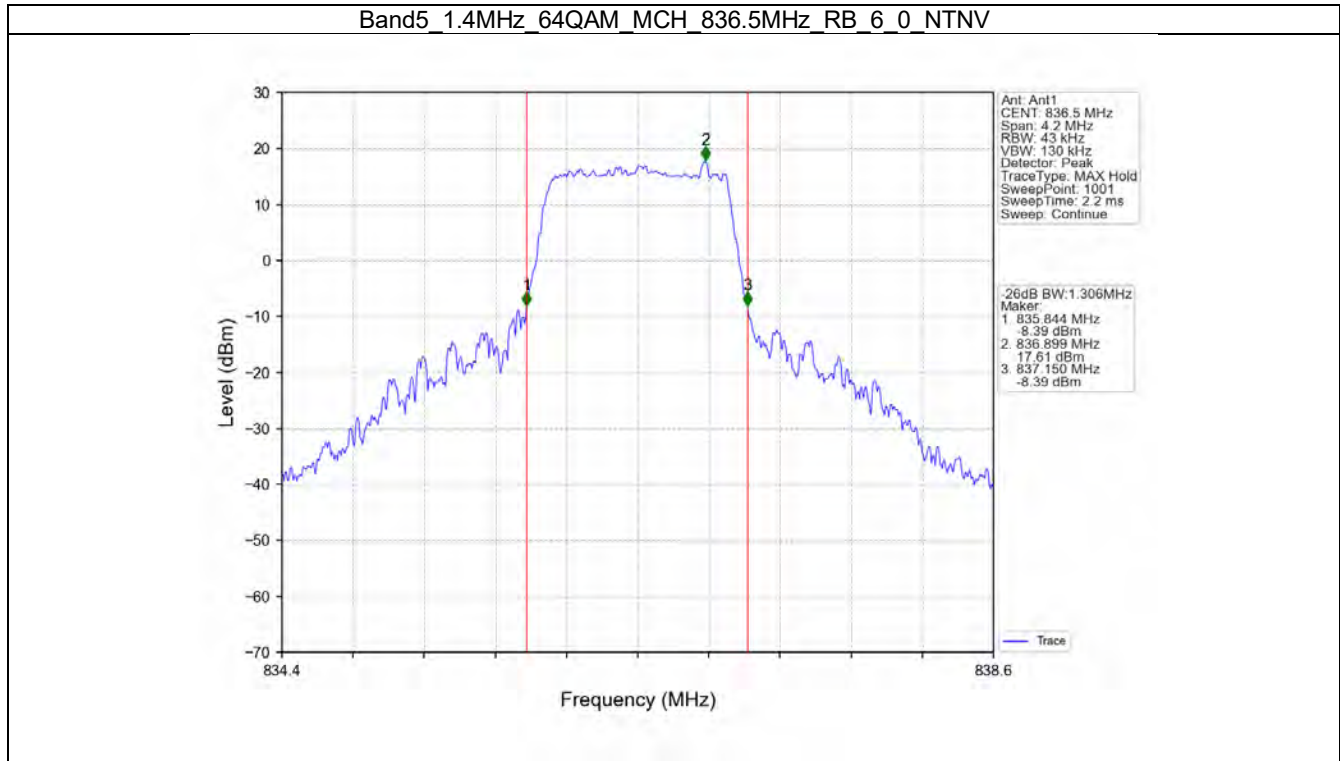


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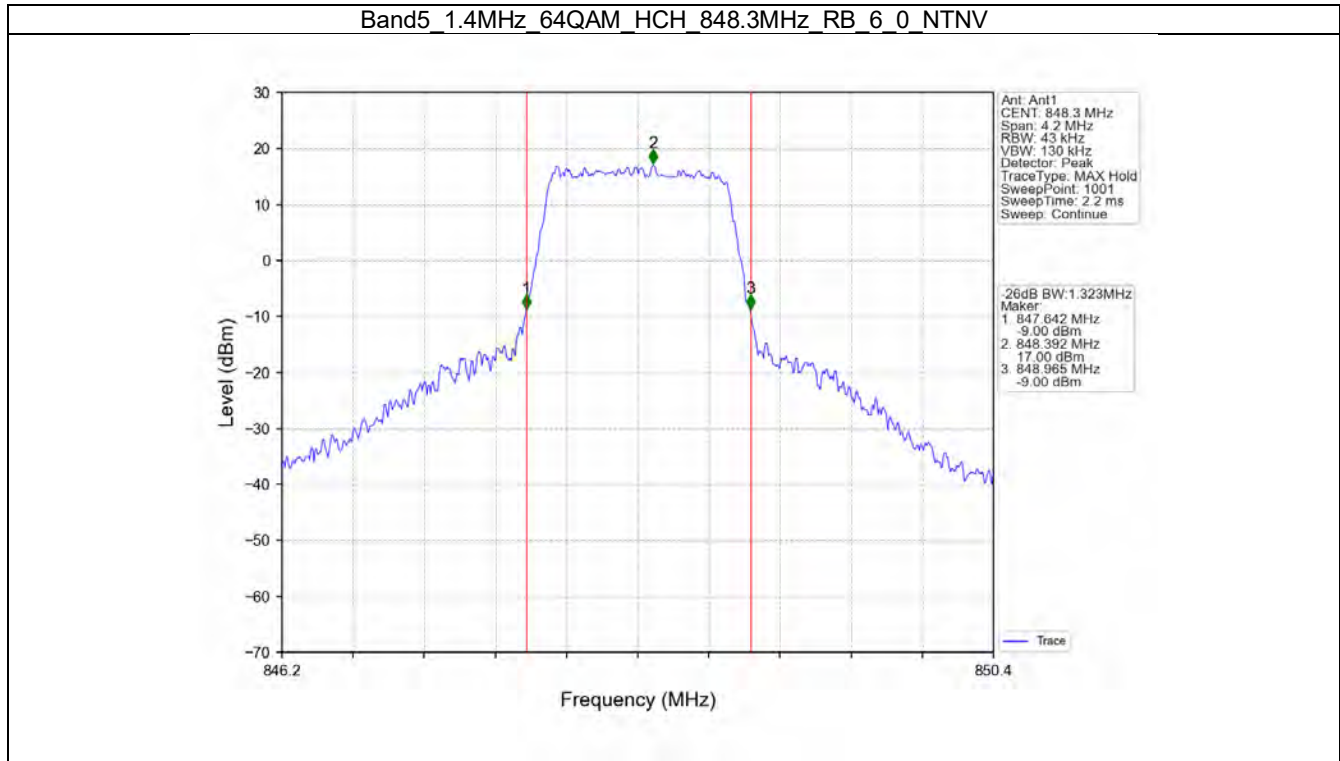


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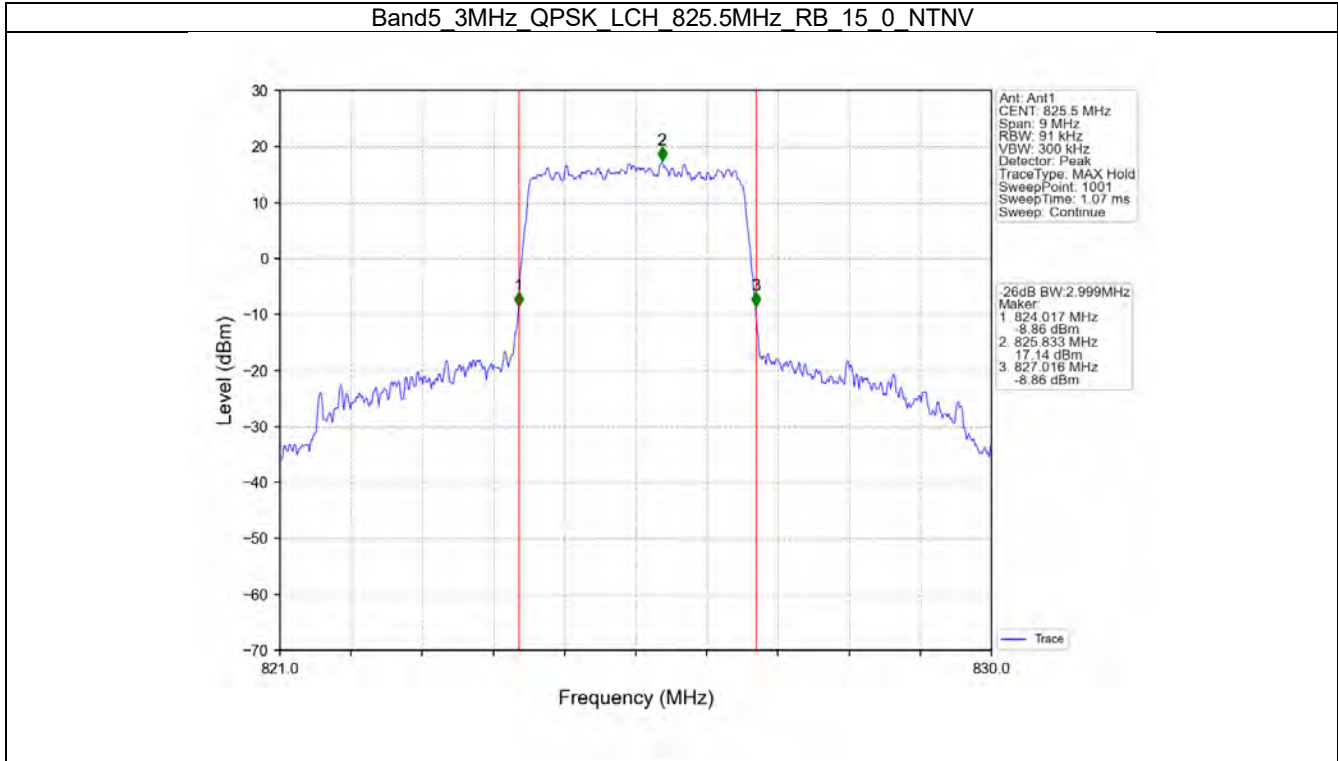


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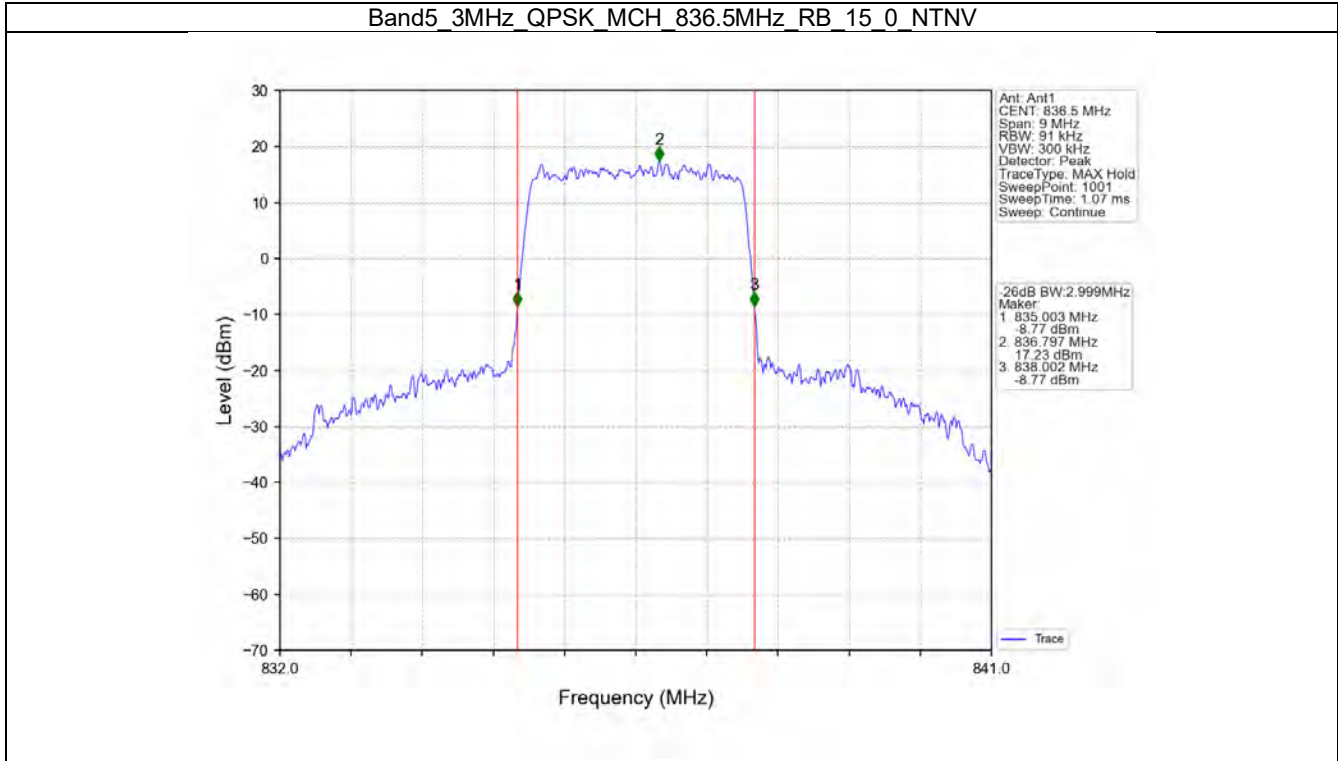


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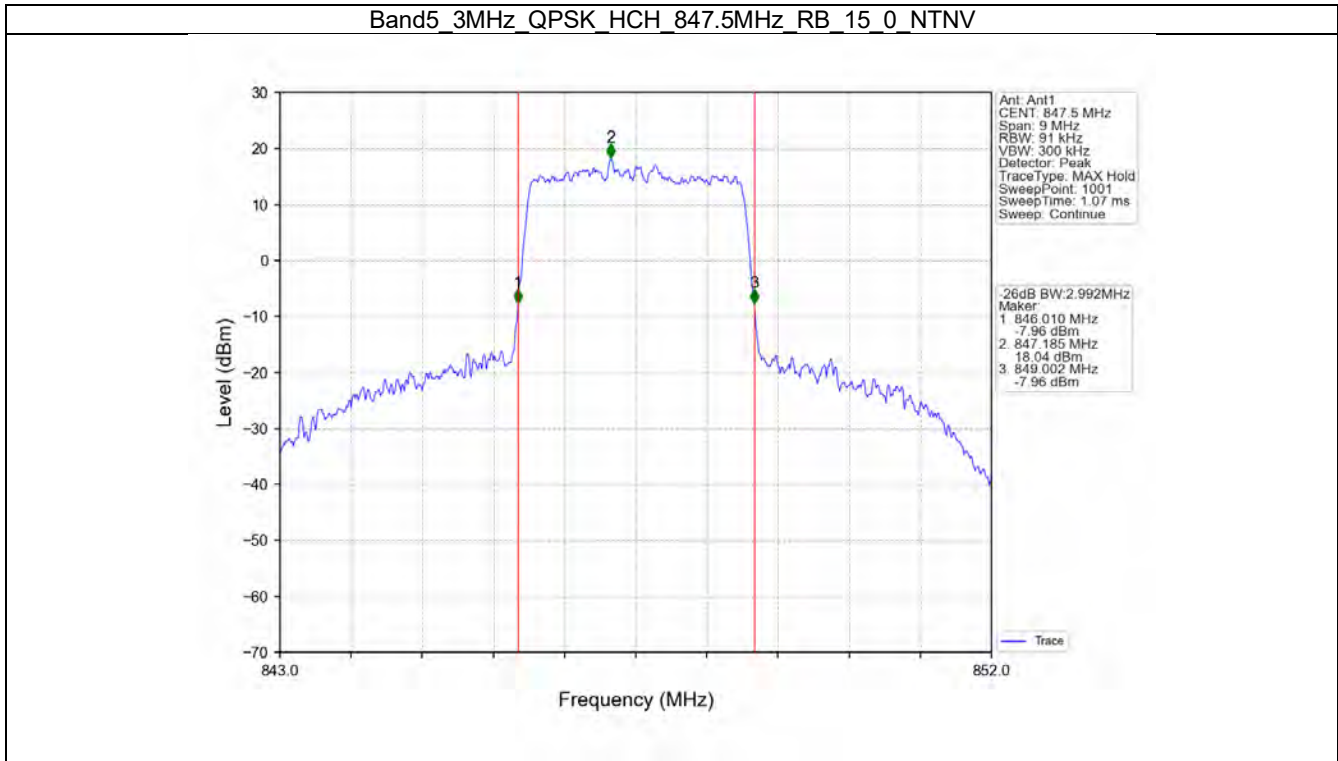


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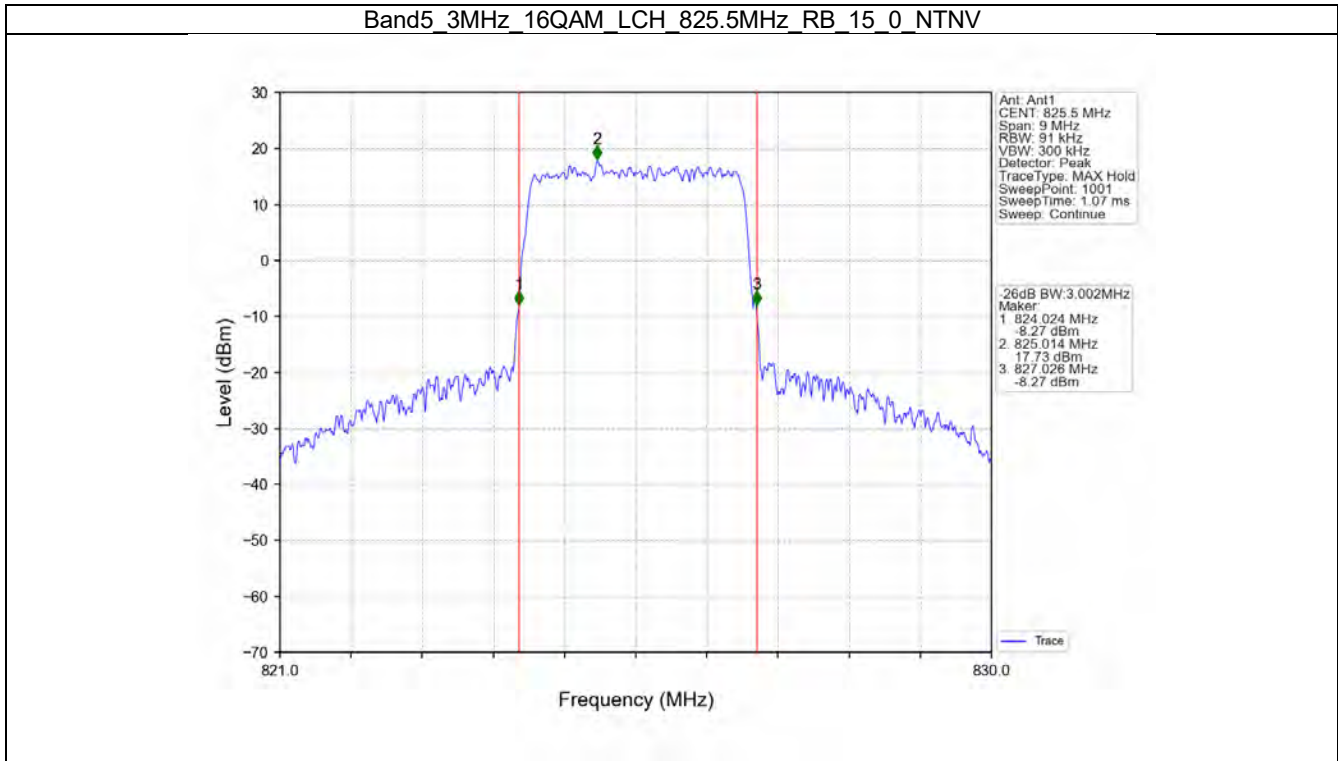


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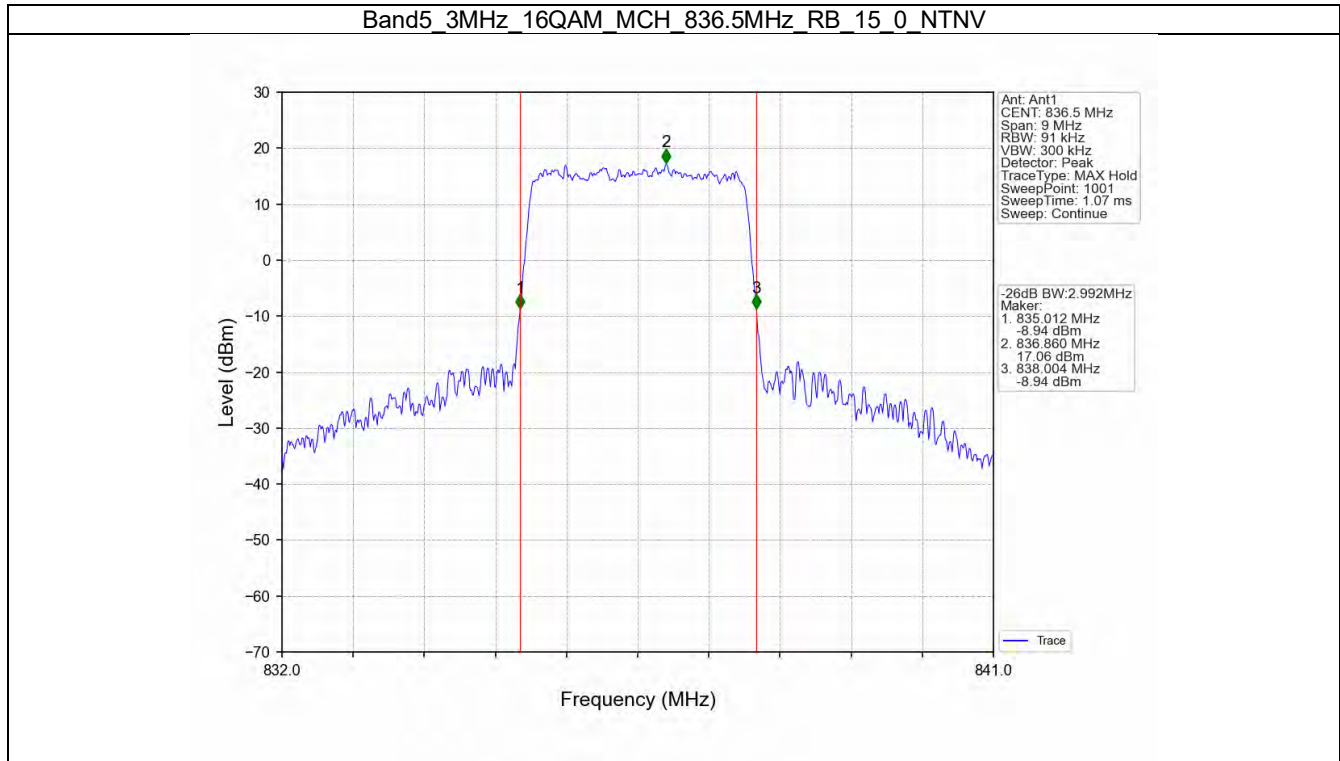


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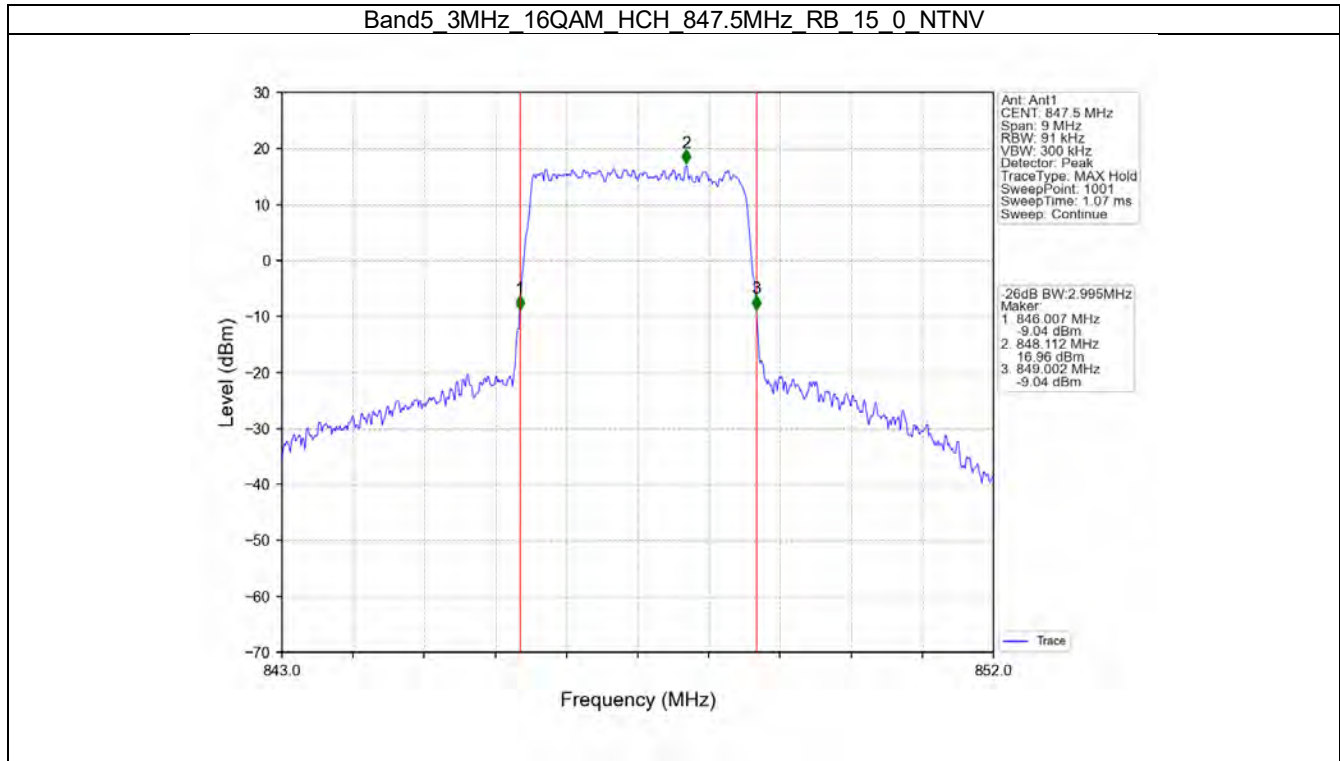


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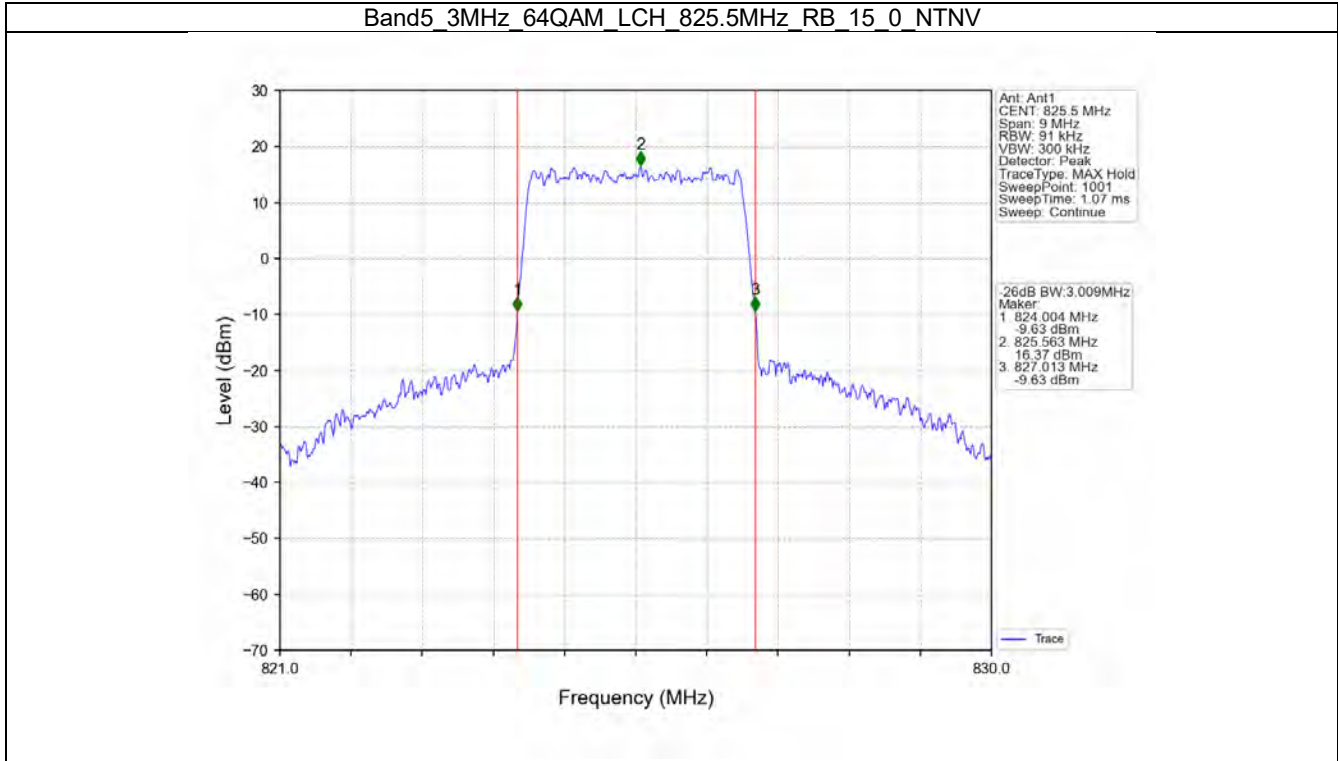


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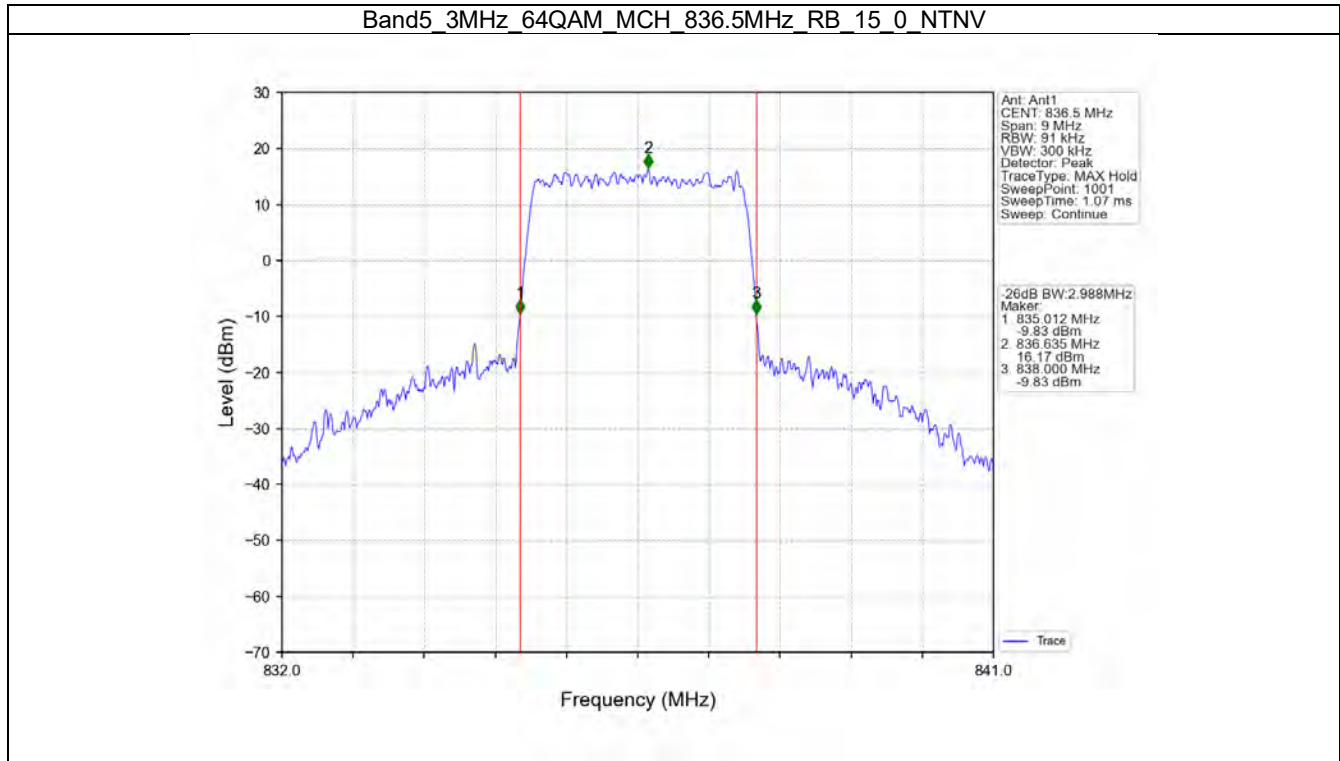


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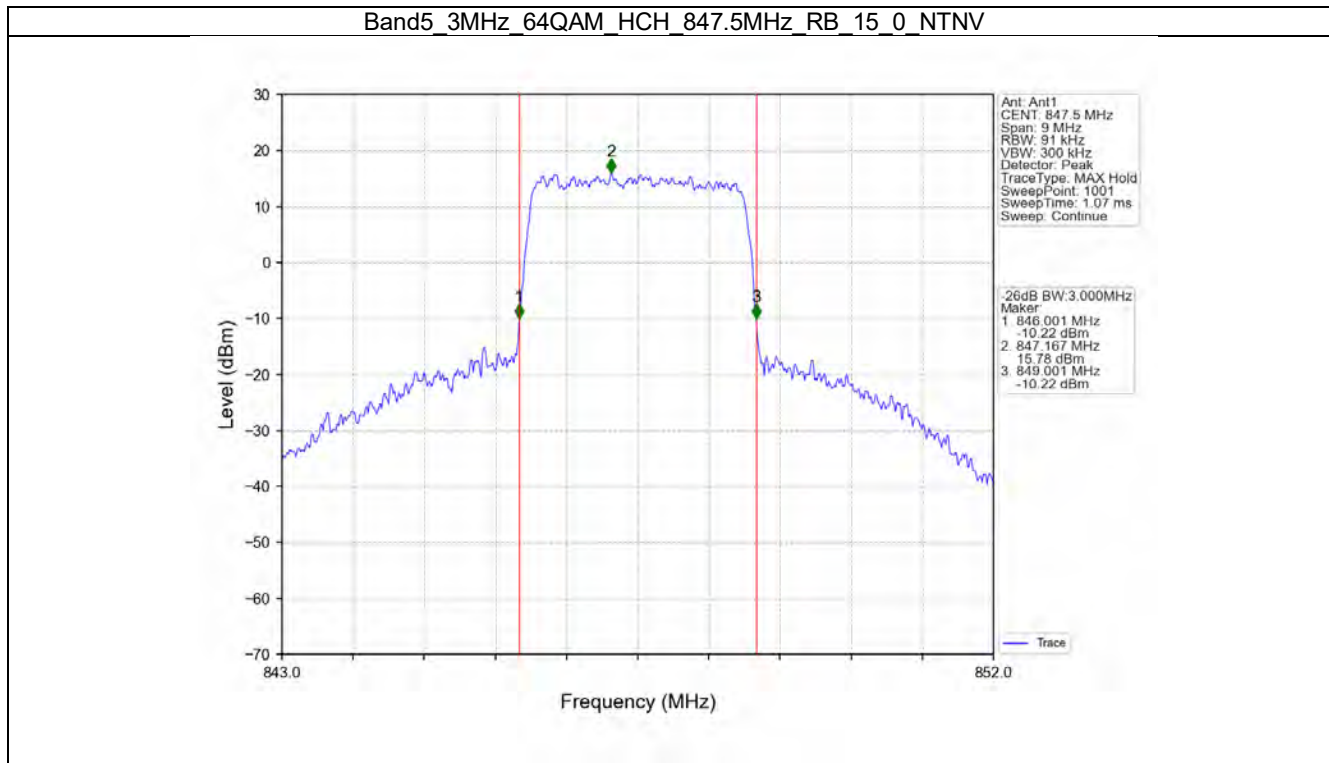
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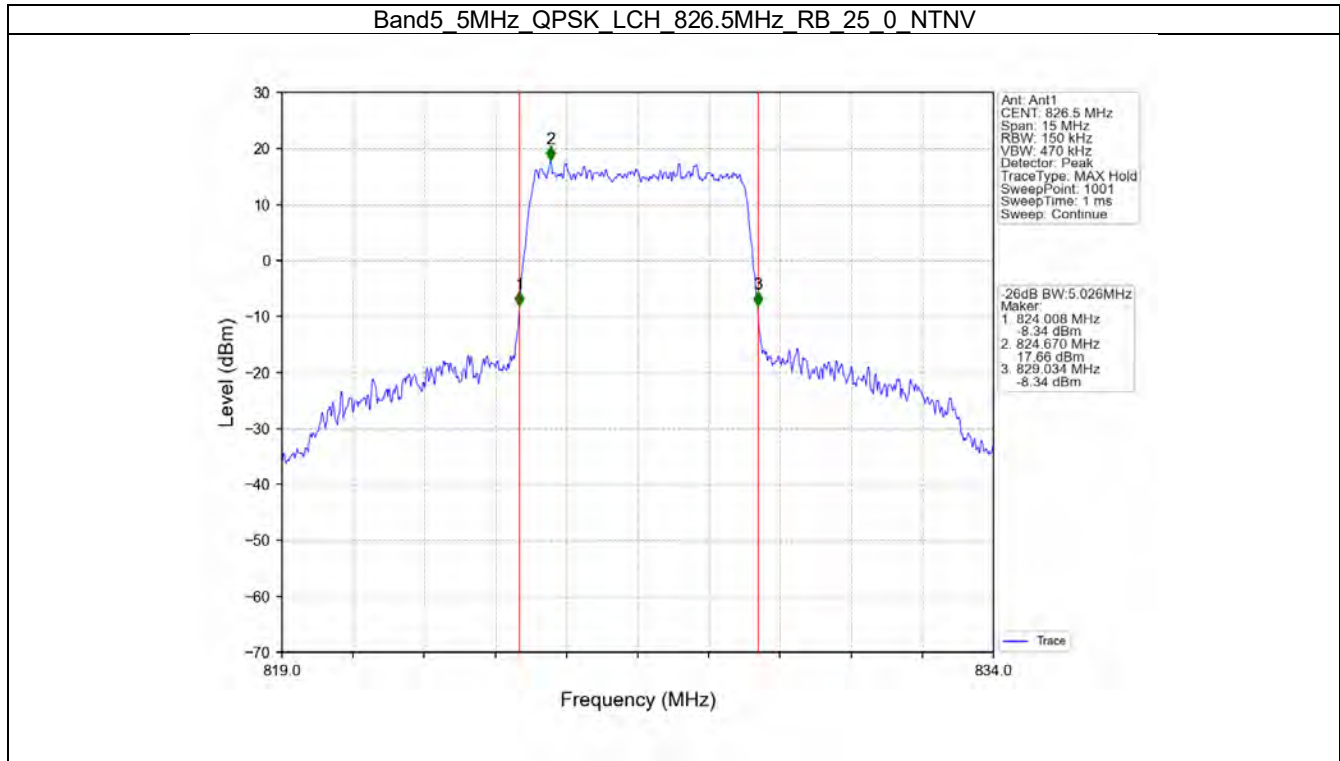


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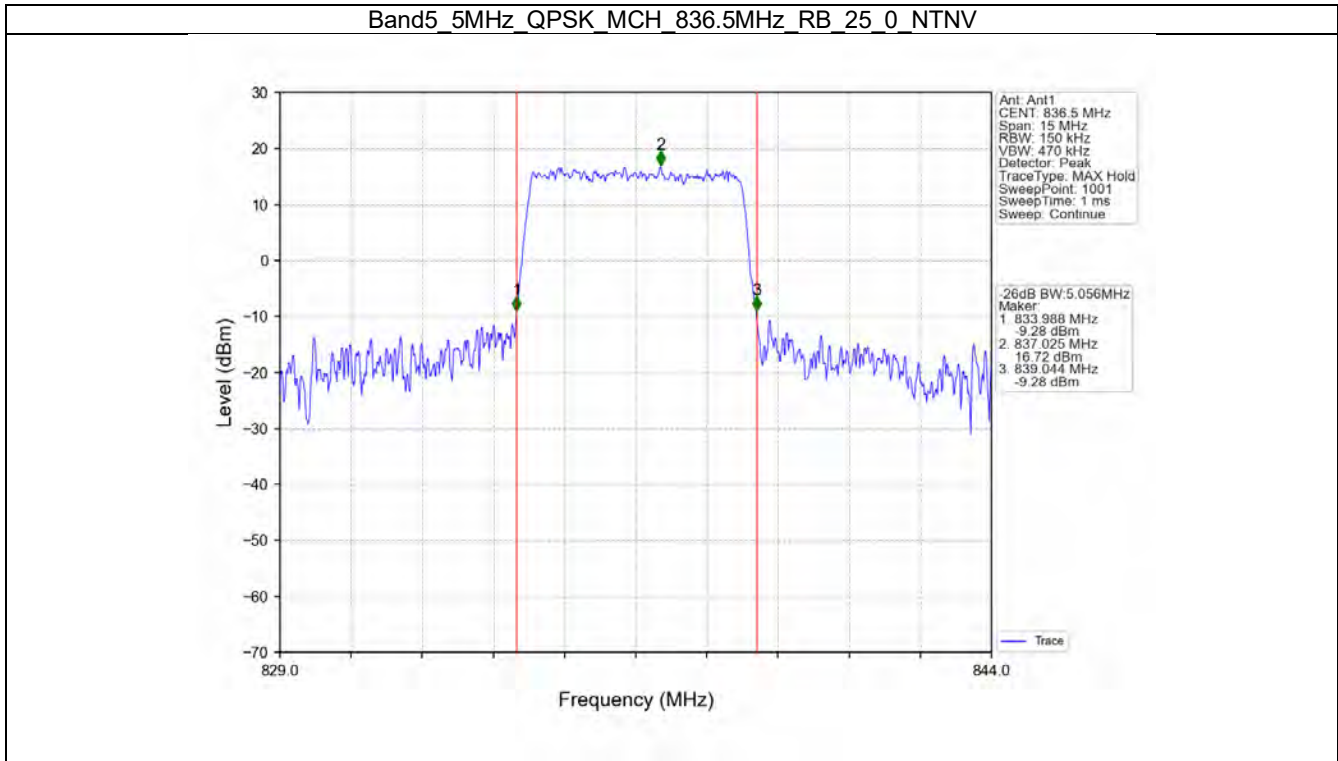


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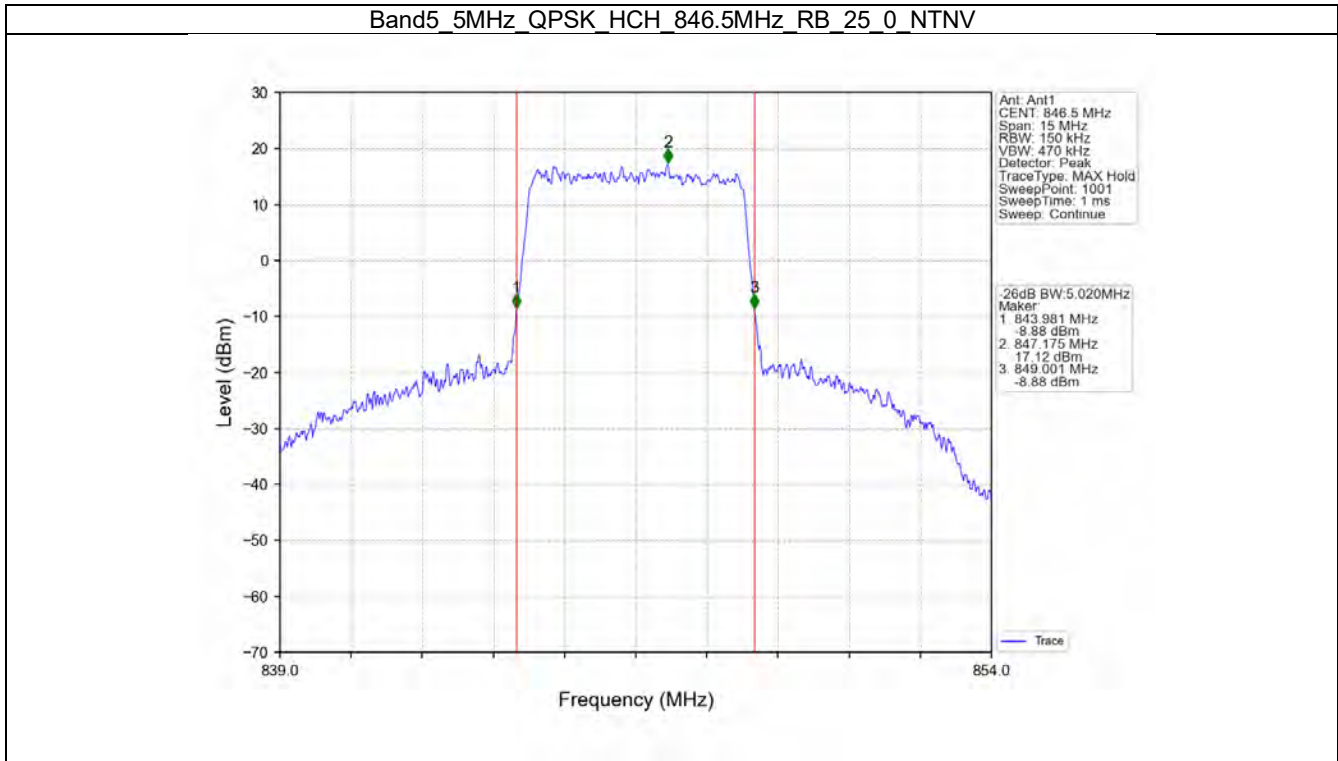


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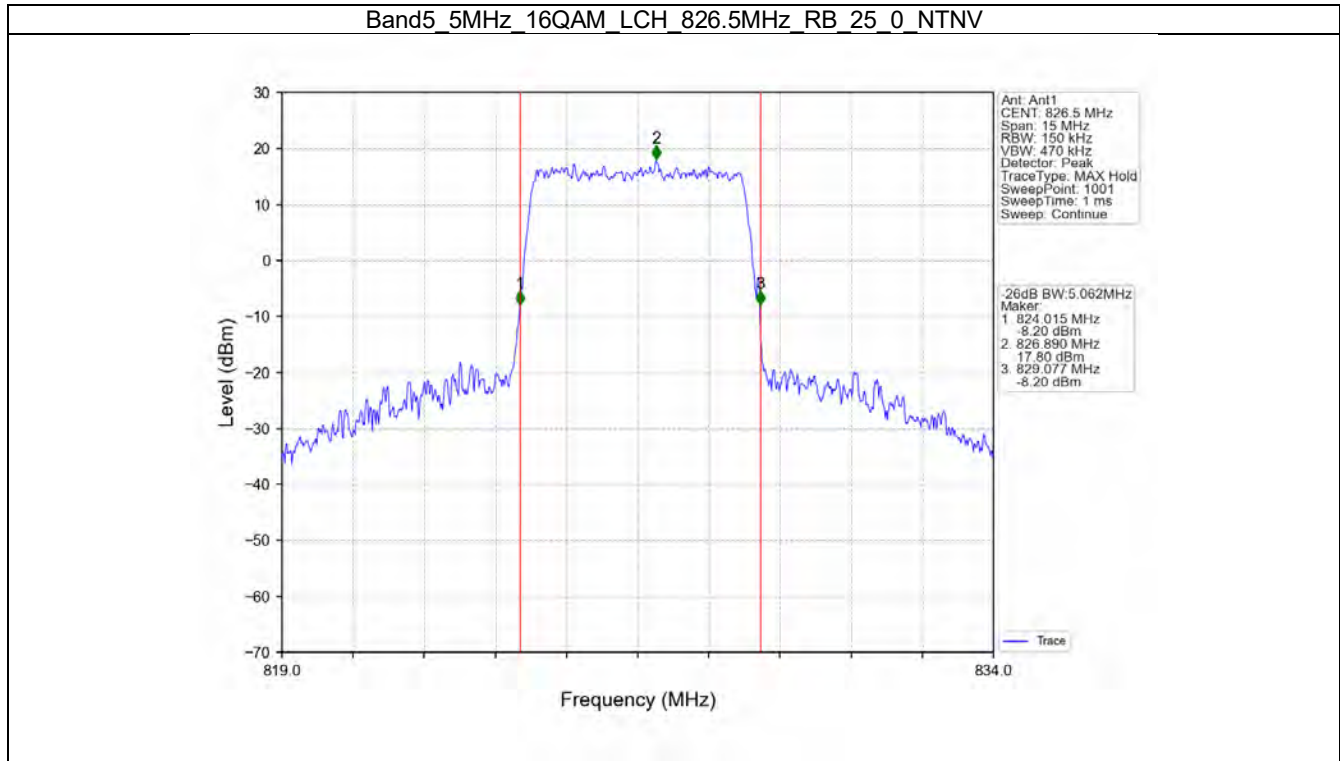


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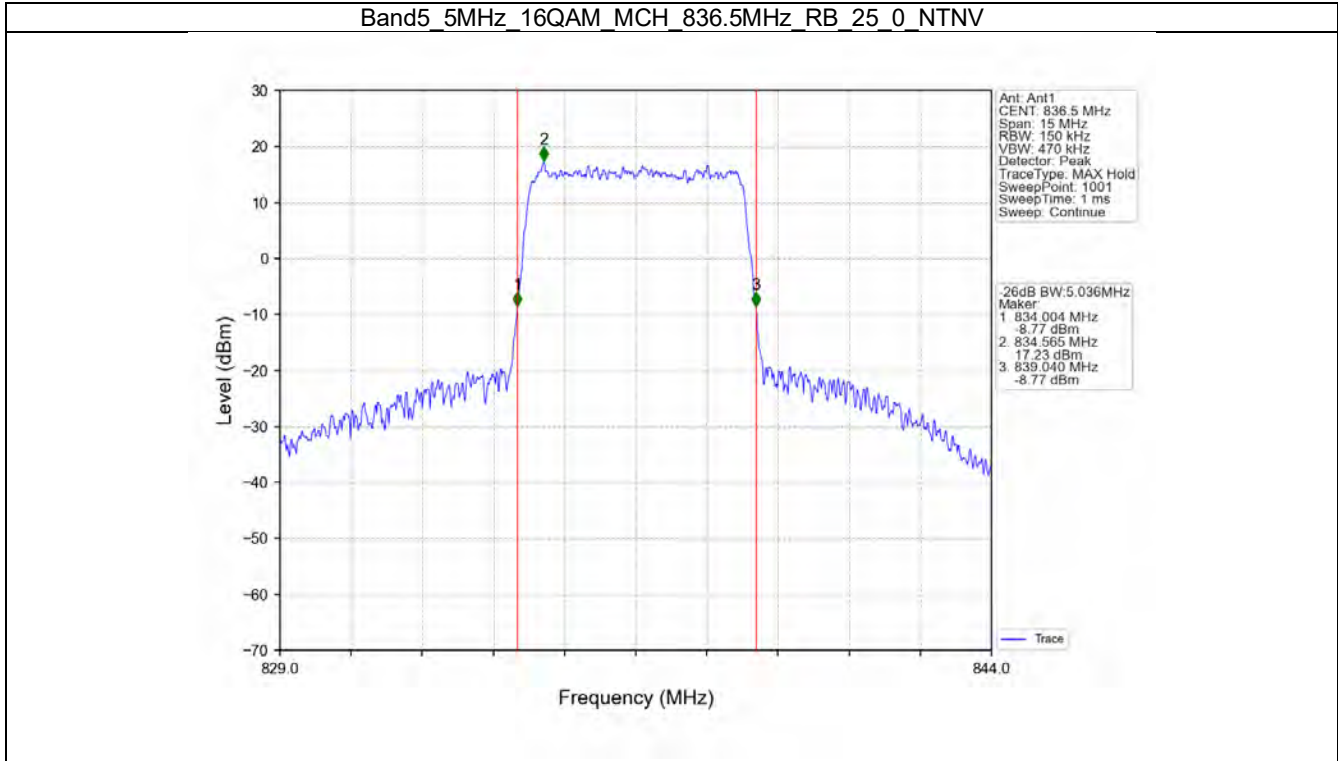


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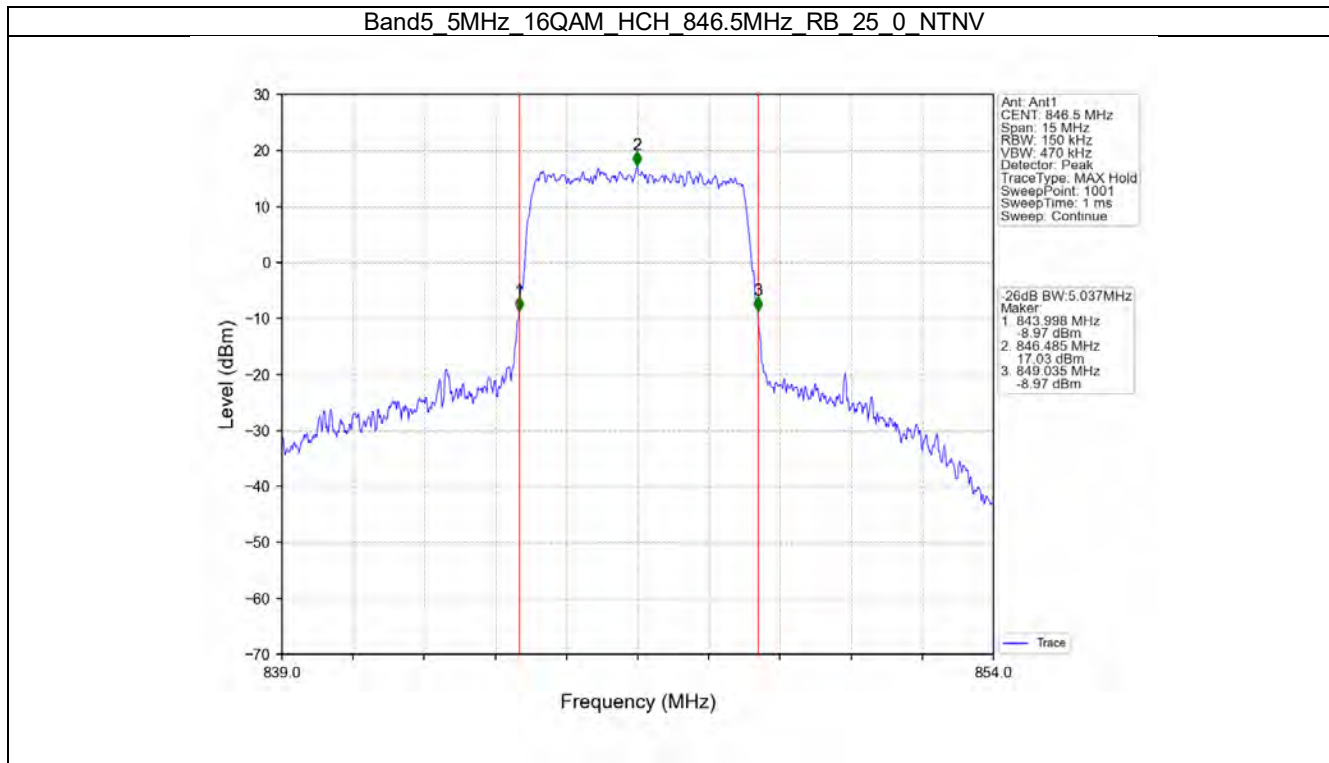
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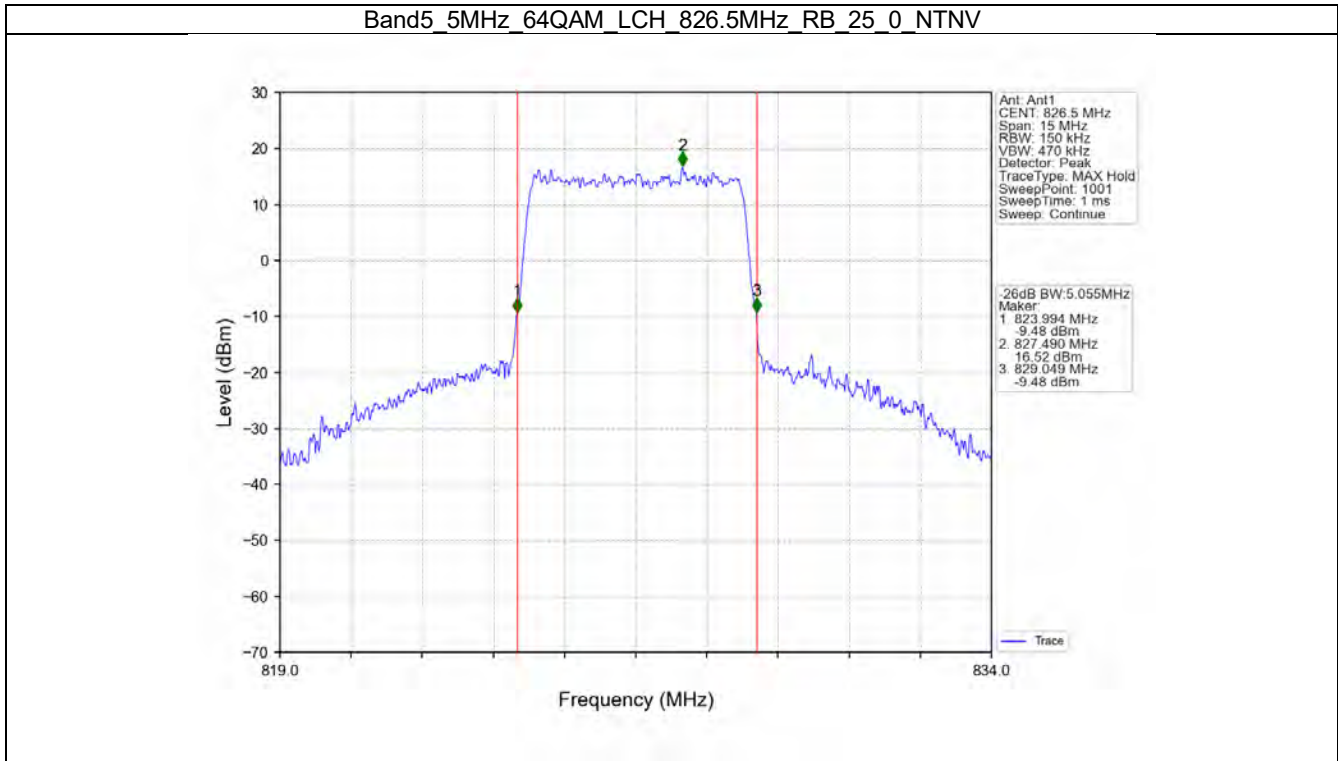


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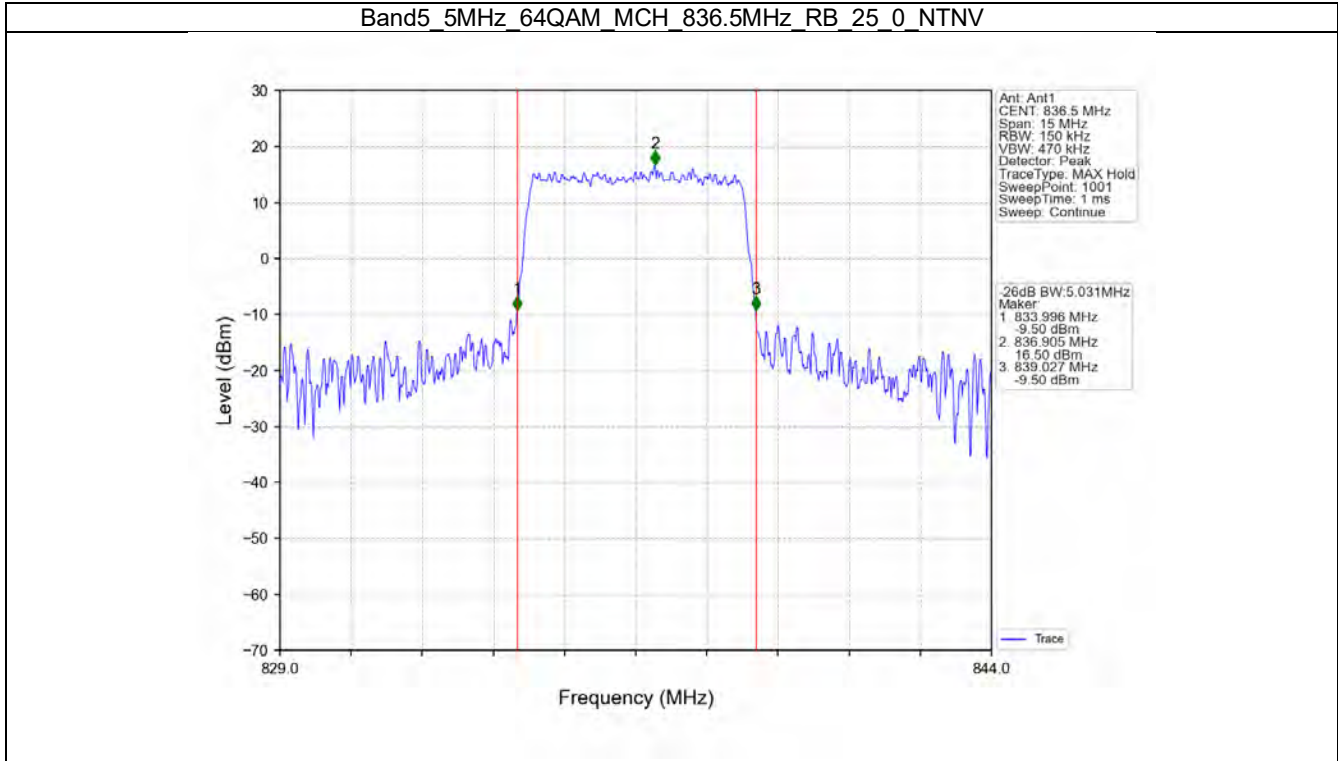


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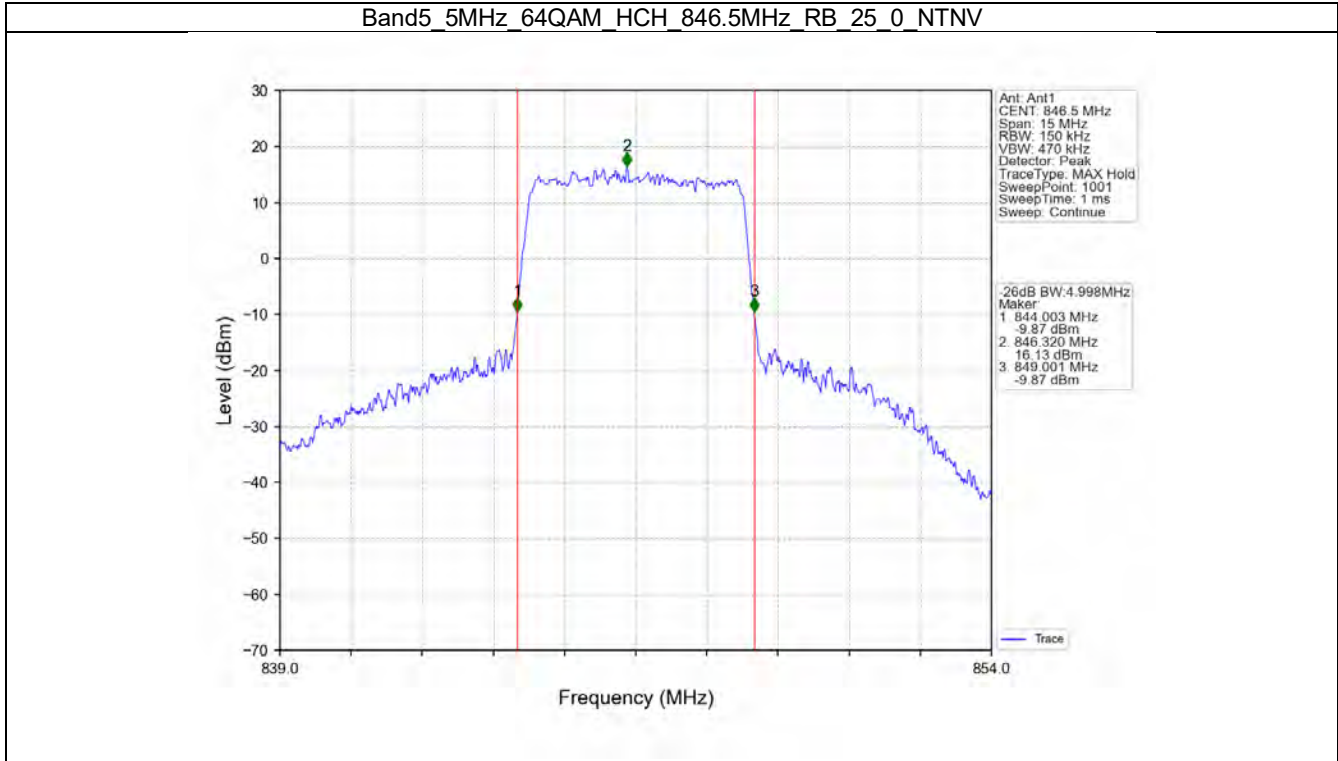


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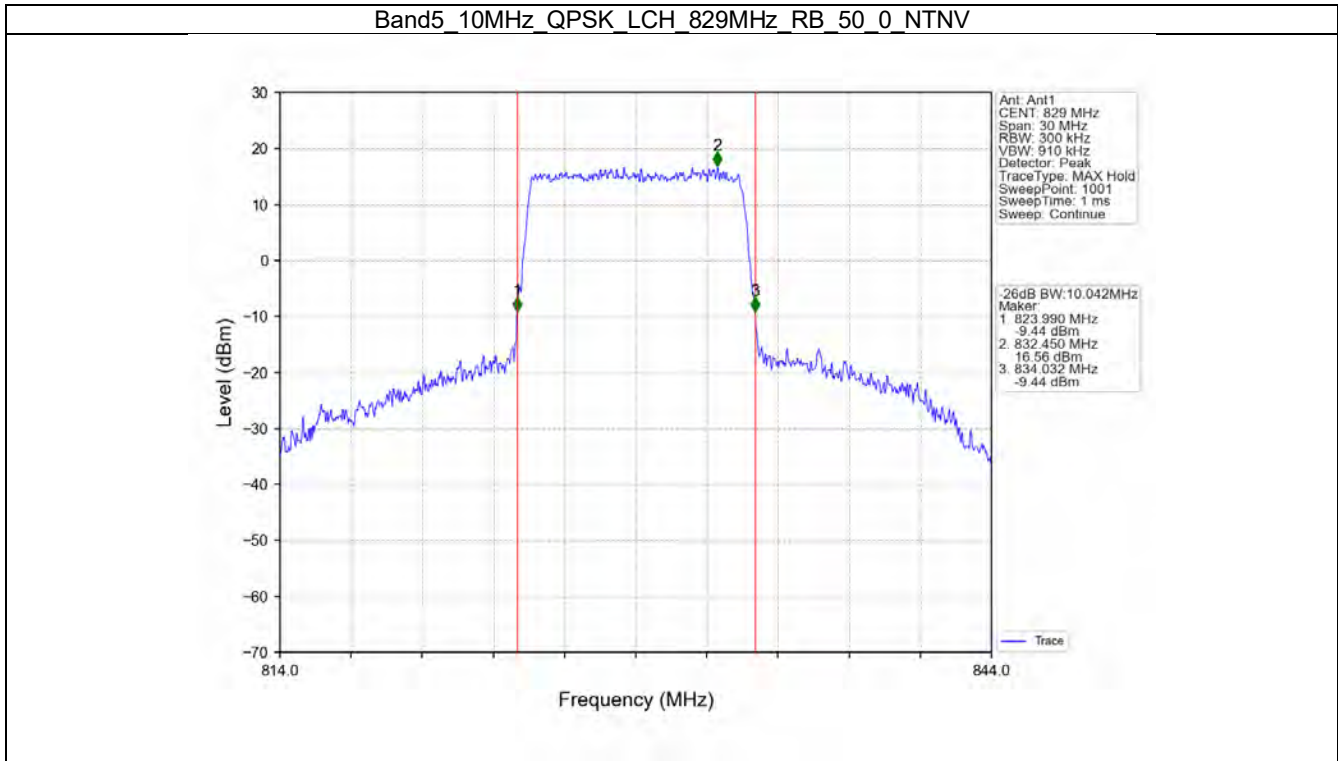


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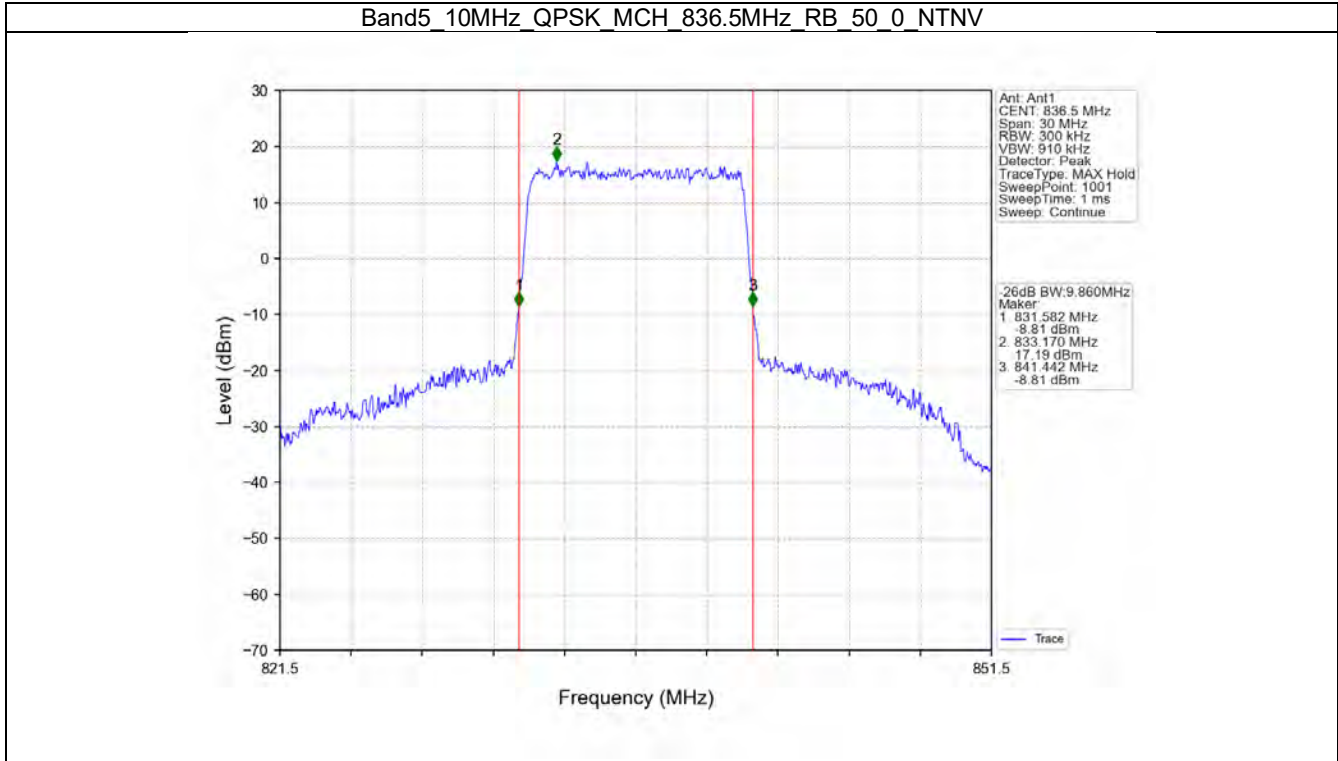


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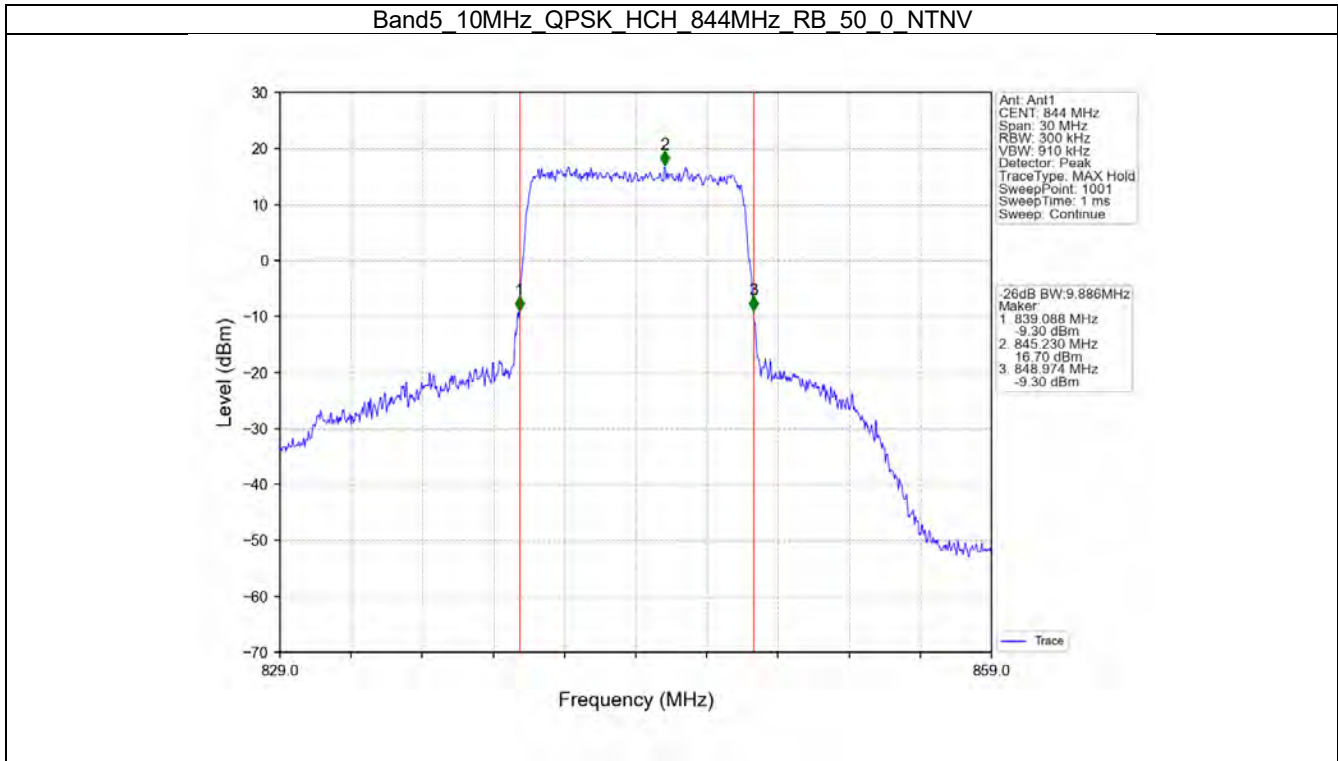


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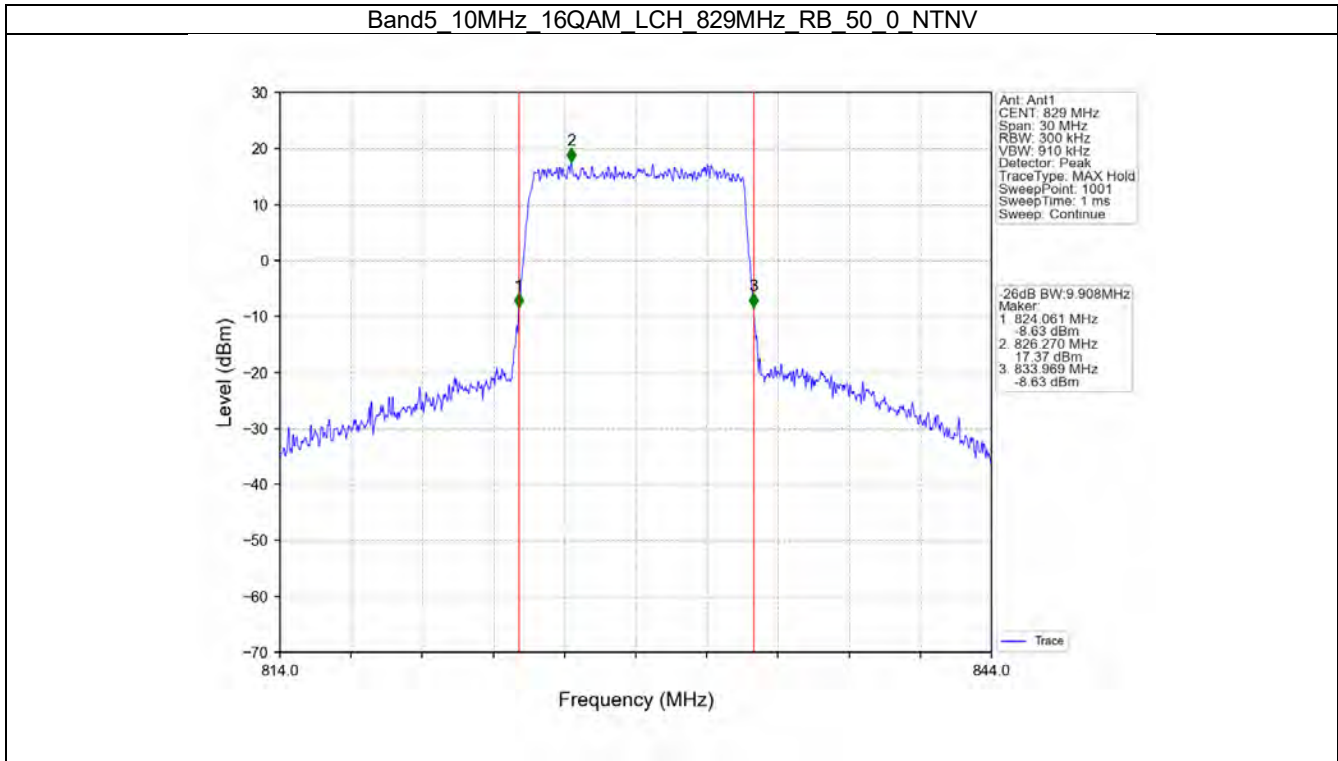


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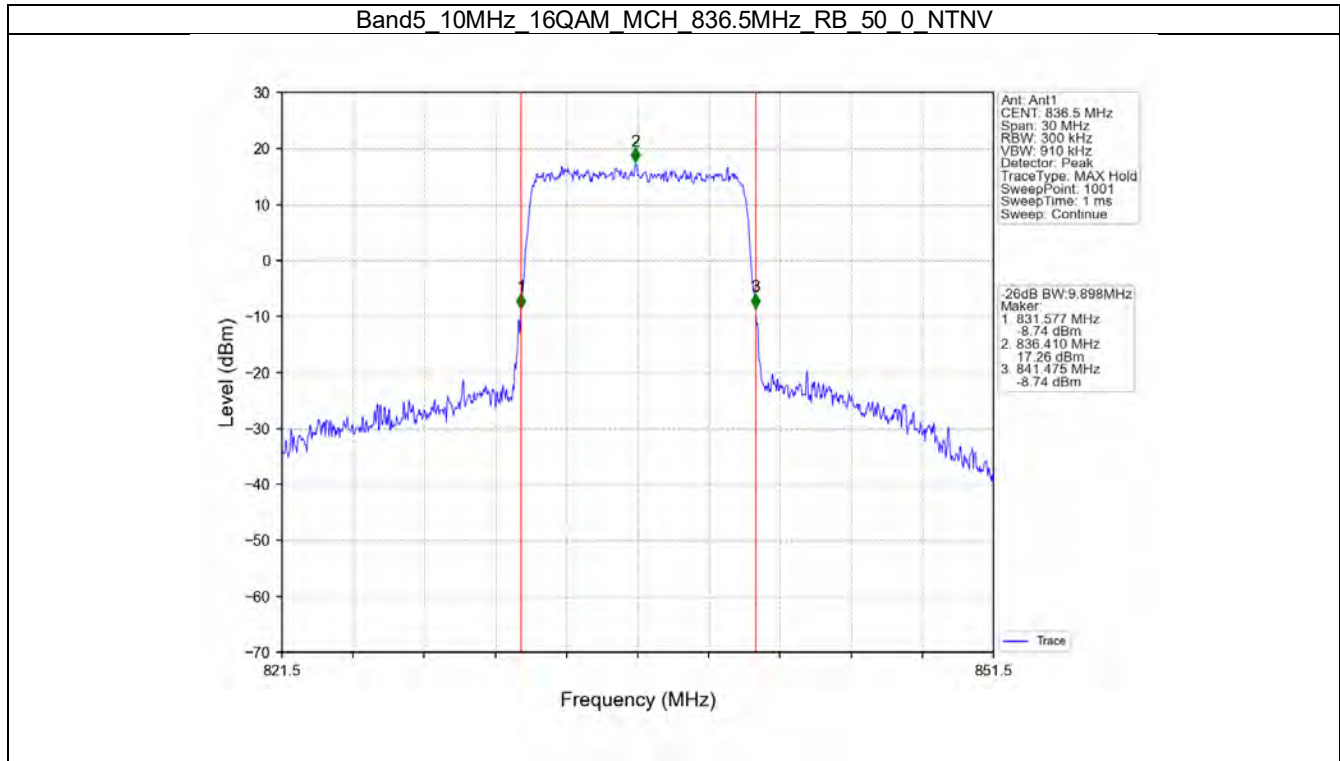


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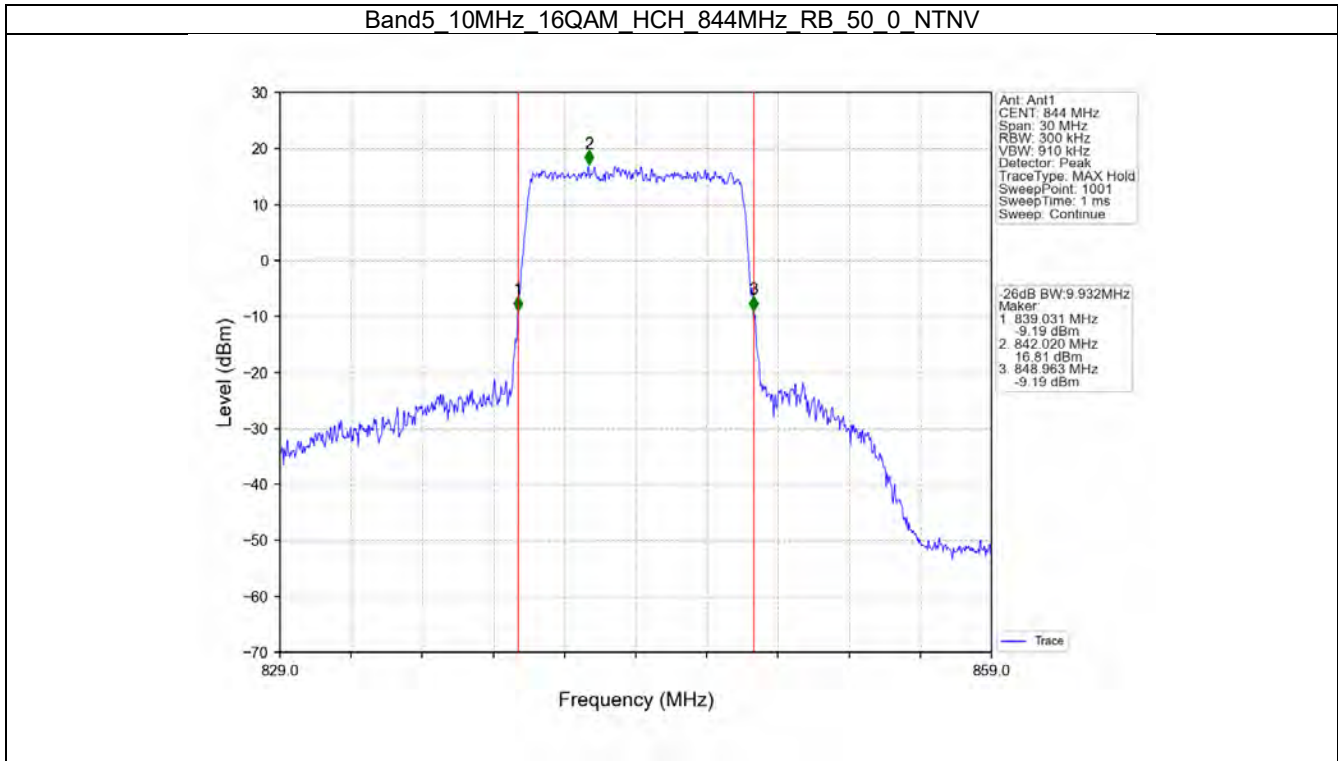


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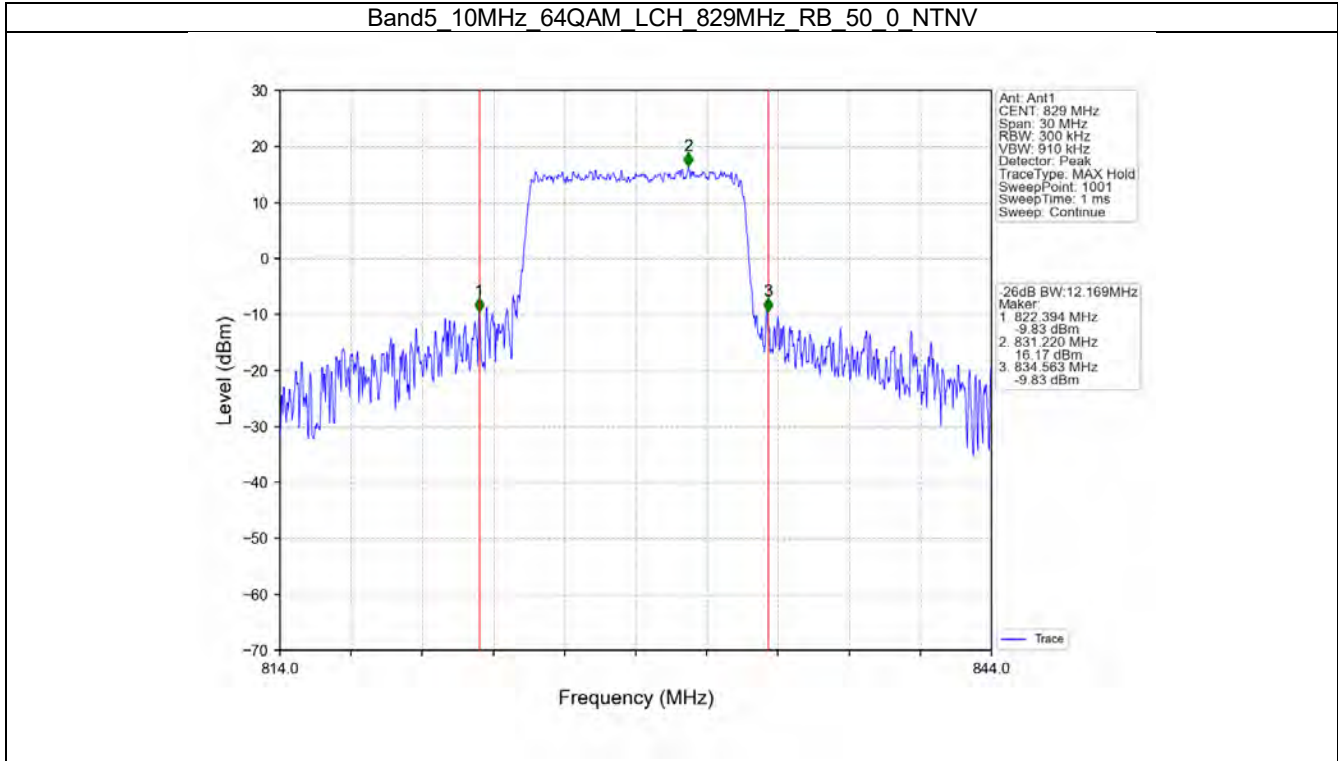


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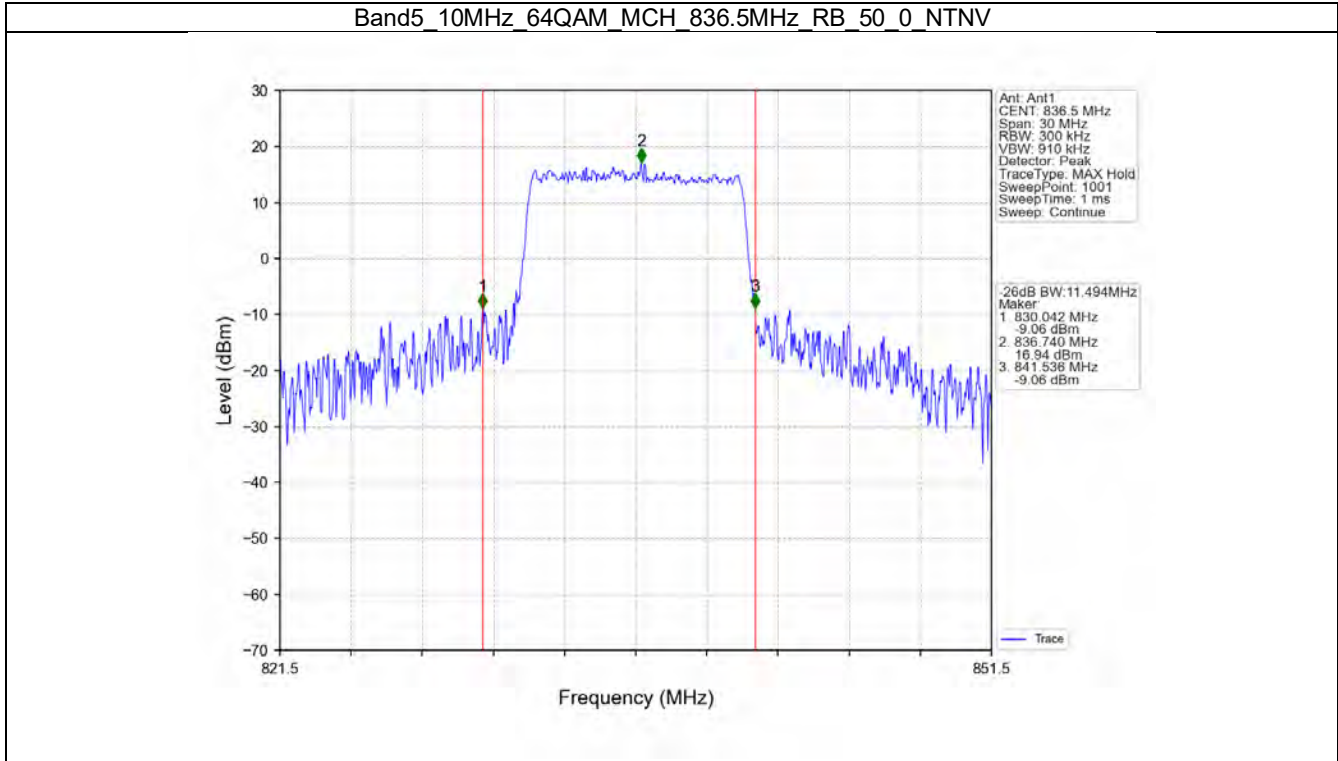


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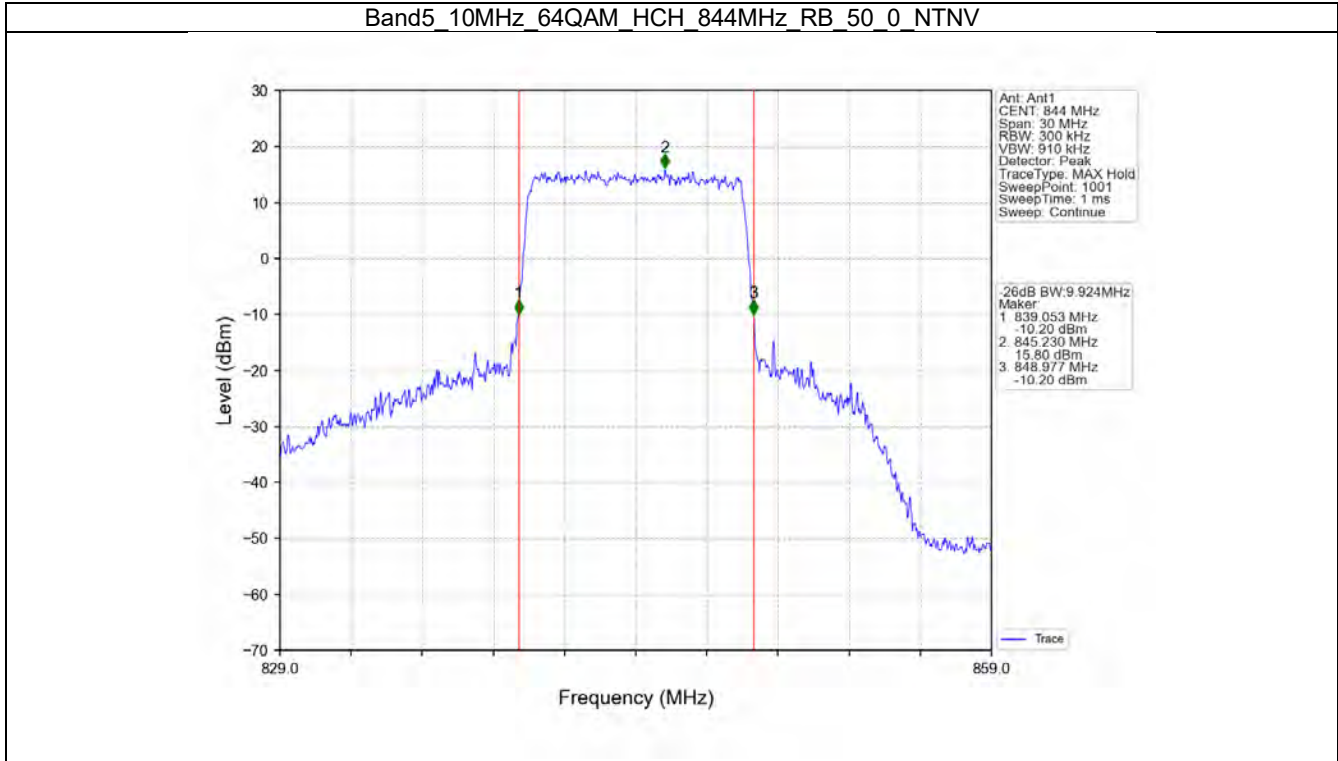


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4. Peak-Average Ratio

4.1 B5_1.4MHz

4.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.85	<=13	Pass
	836.5	6	0	4.73	<=13	Pass
	848.3	6	0	4.55	<=13	Pass
16QAM	824.7	6	0	6.14	<=13	Pass
	836.5	6	0	6.01	<=13	Pass
	848.3	6	0	5.89	<=13	Pass
64QAM	824.7	6	0	5.61	<=13	Pass
	836.5	6	0	5.74	<=13	Pass
	848.3	6	0	5.48	<=13	Pass



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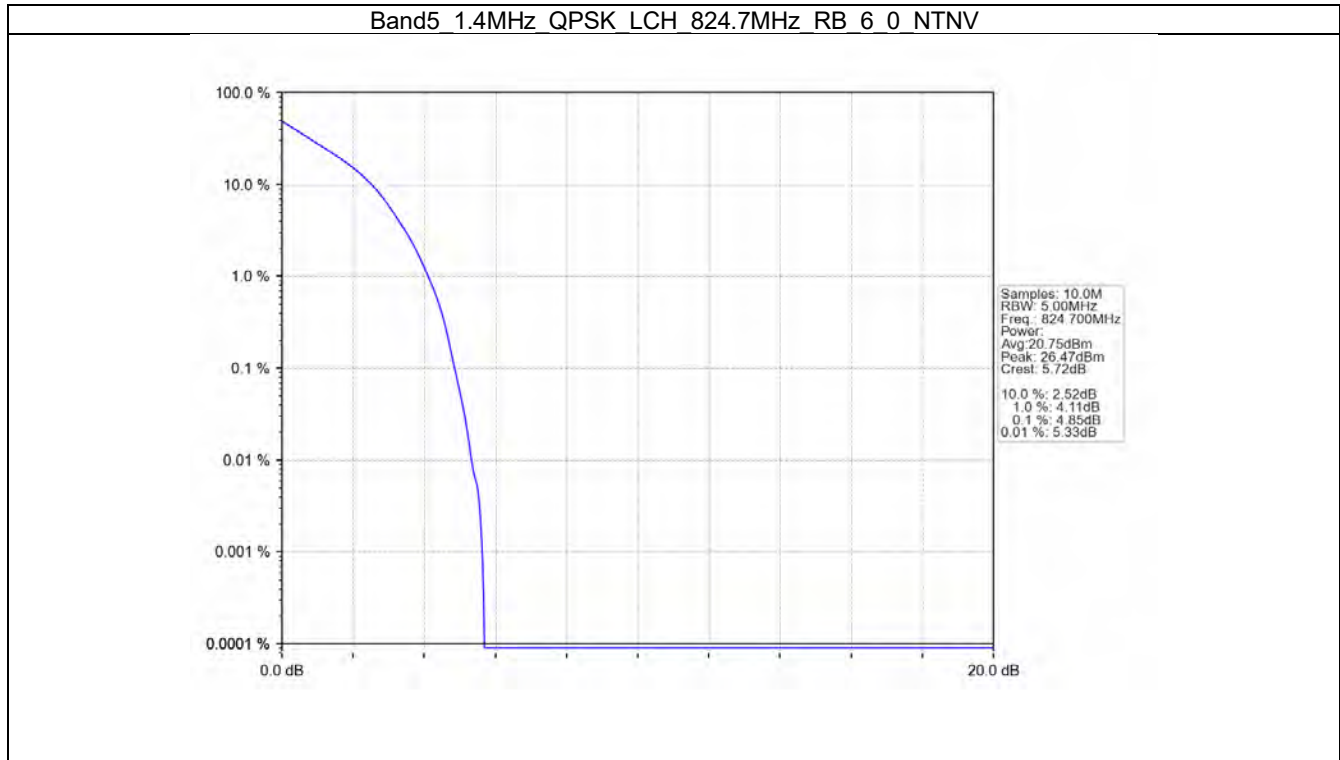
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4.1.2 Test Graph



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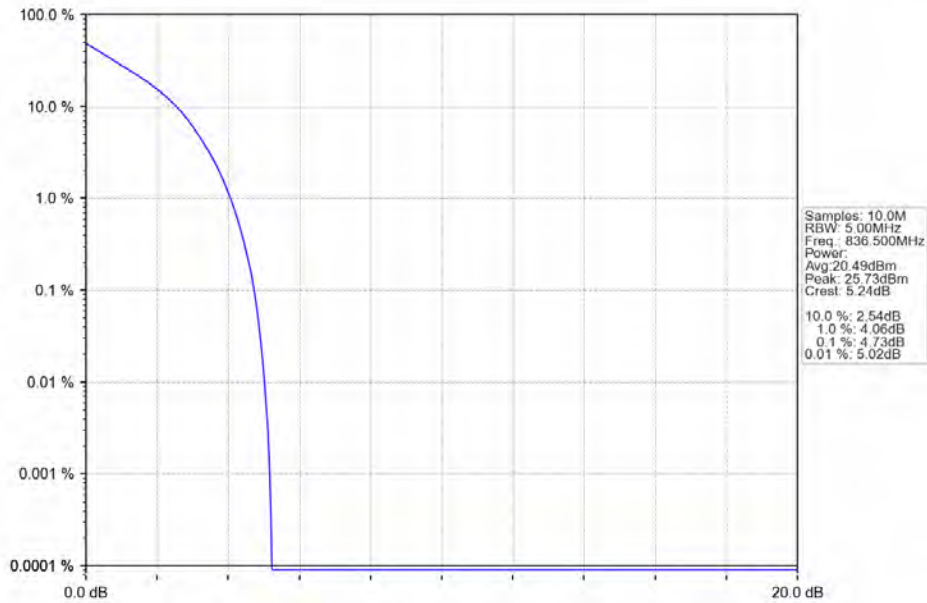
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Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



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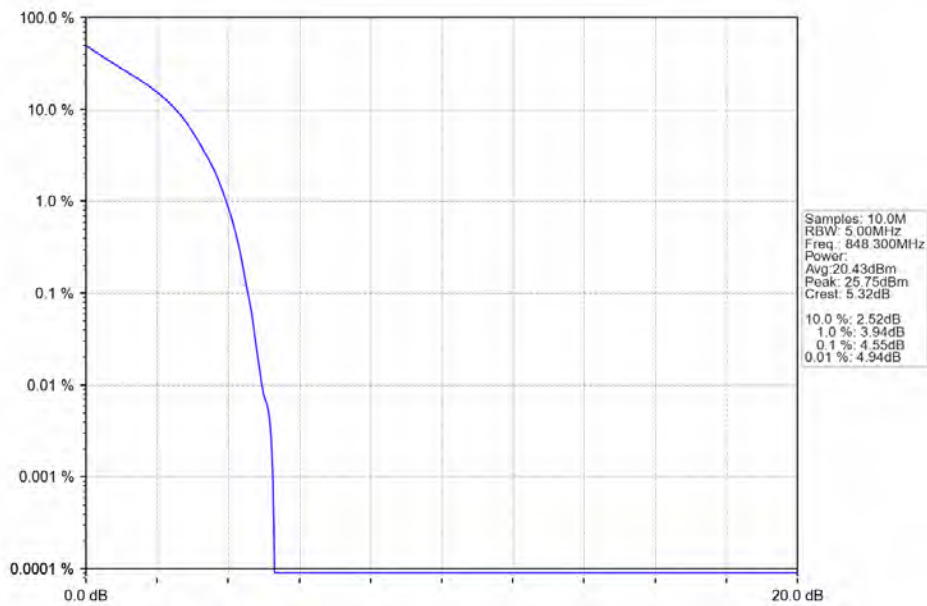
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

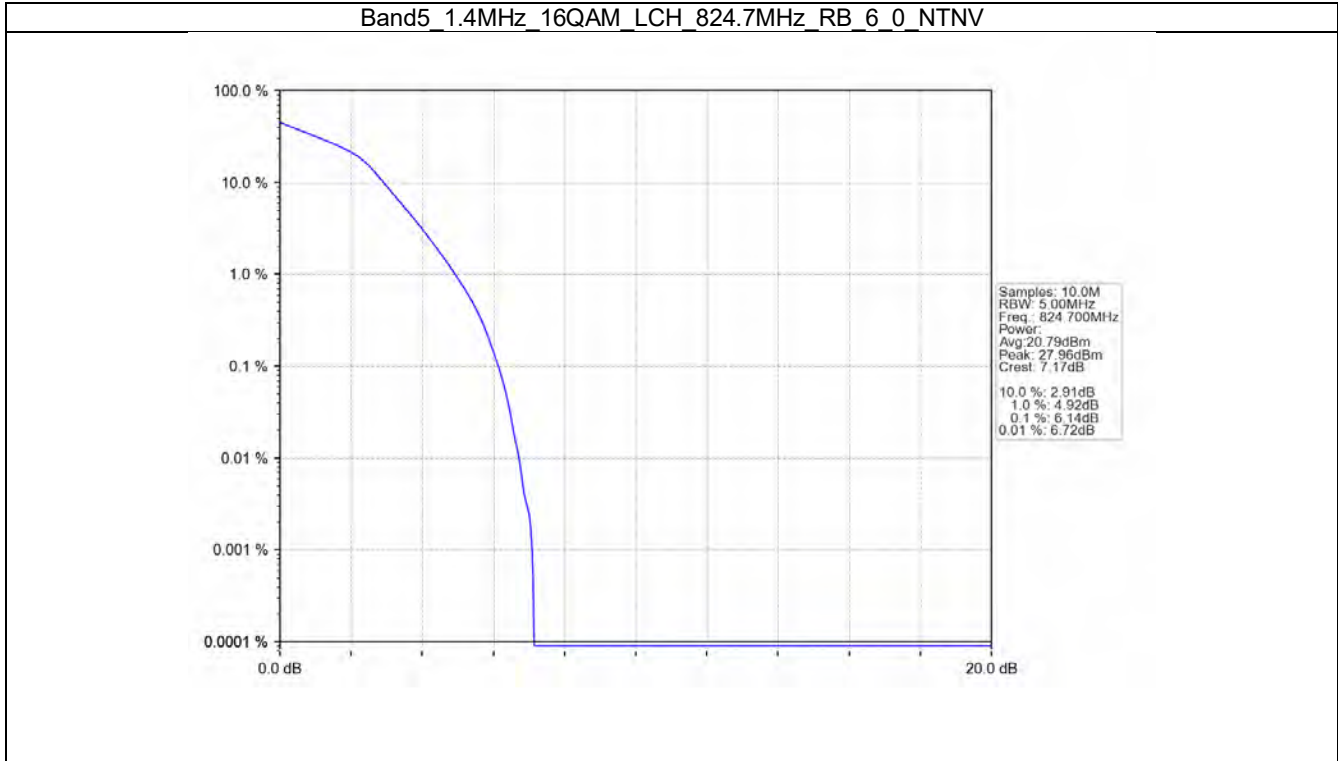


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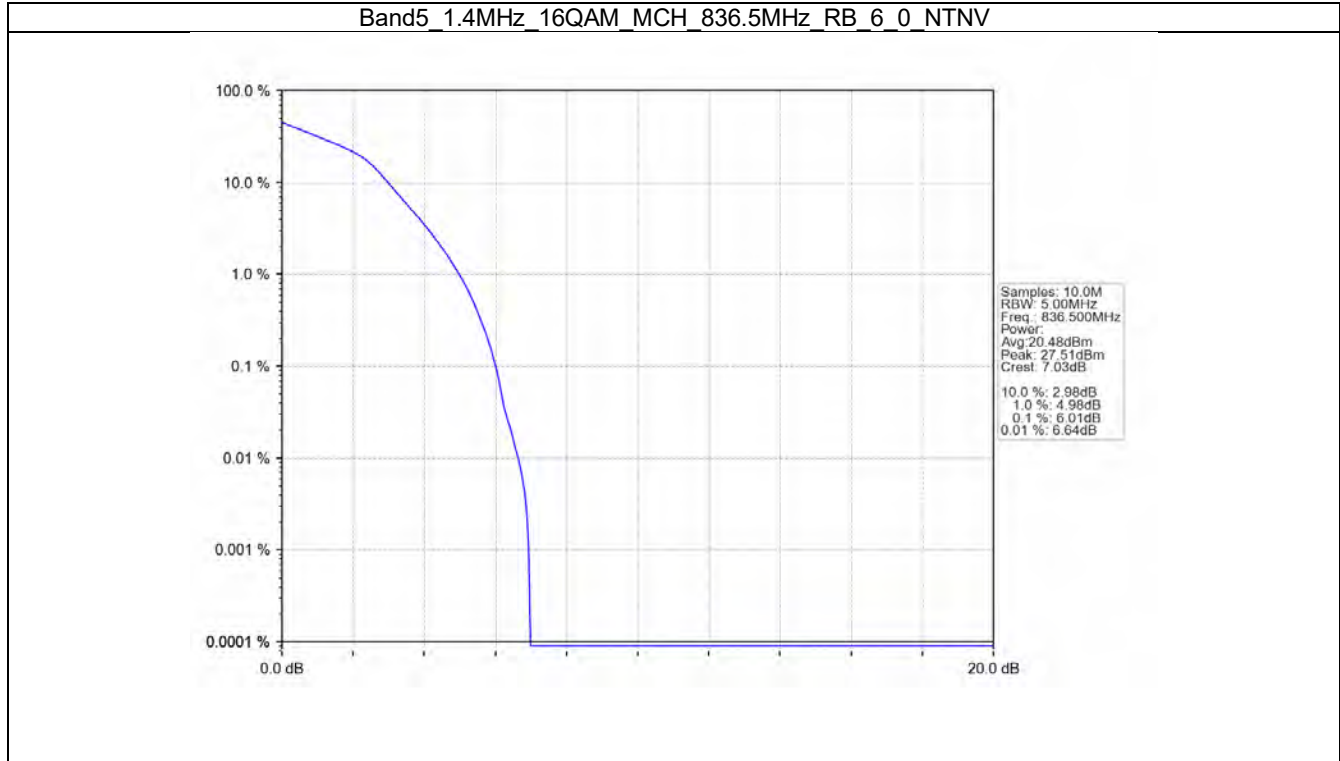
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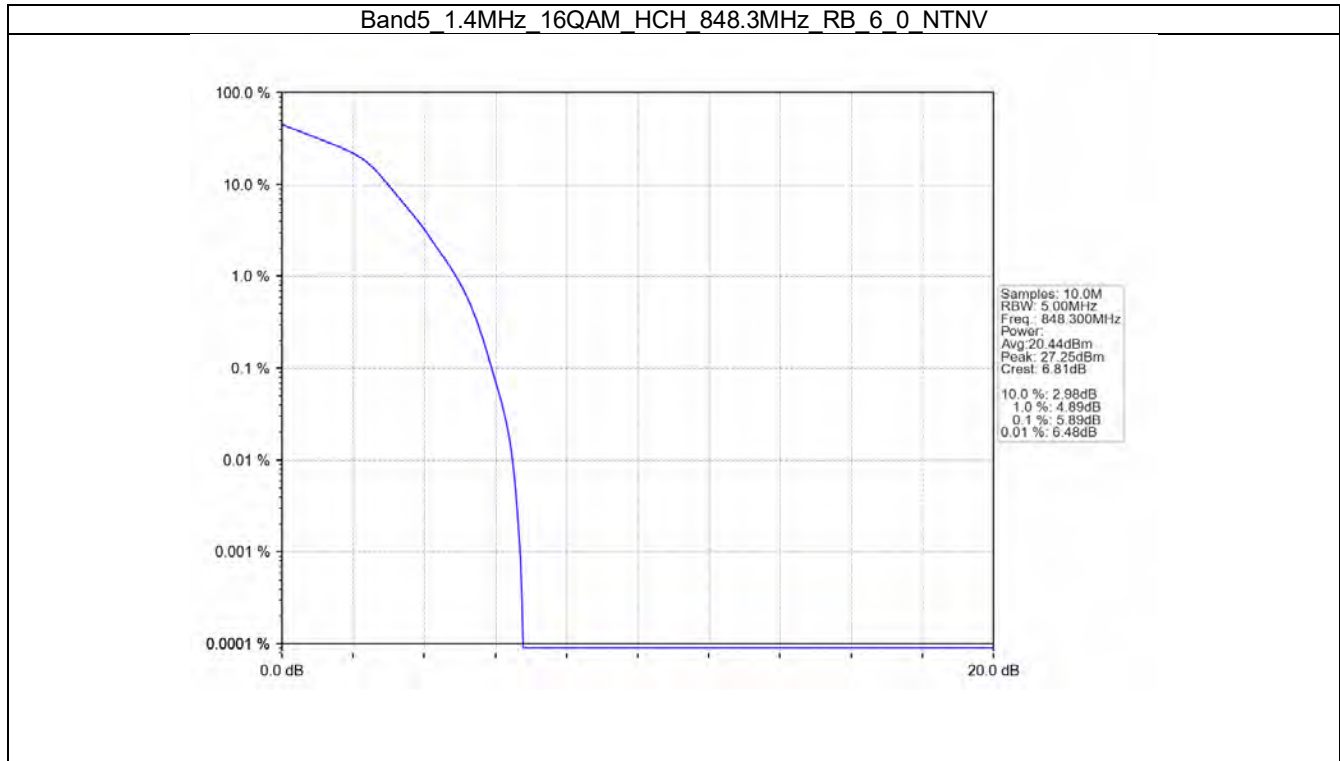


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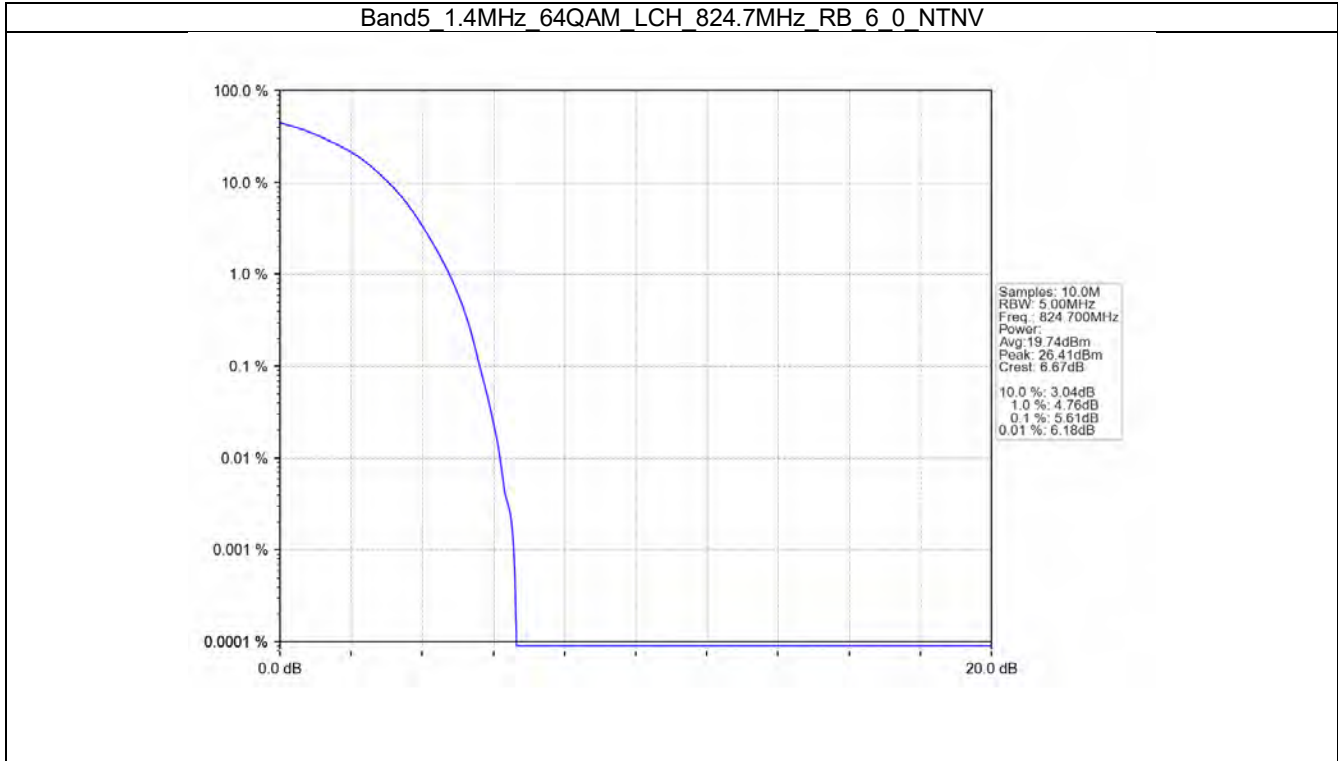


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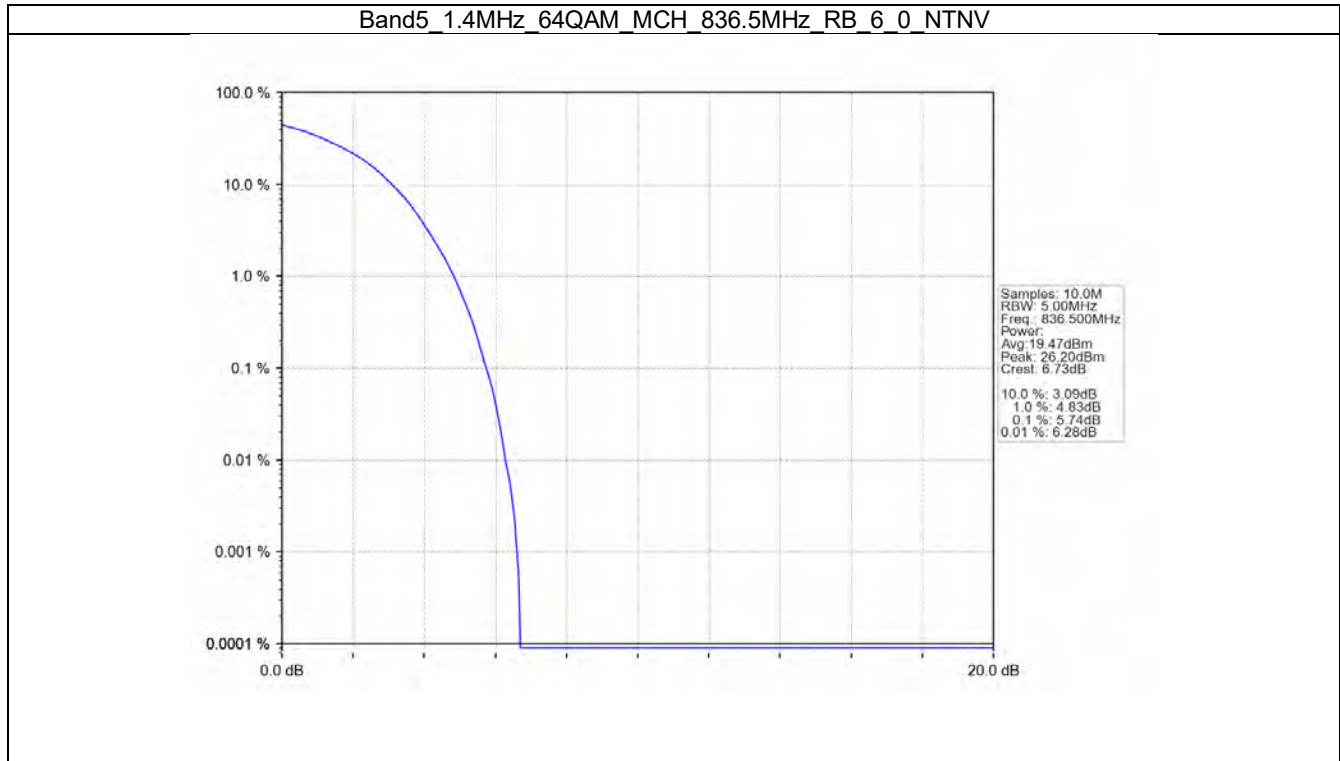


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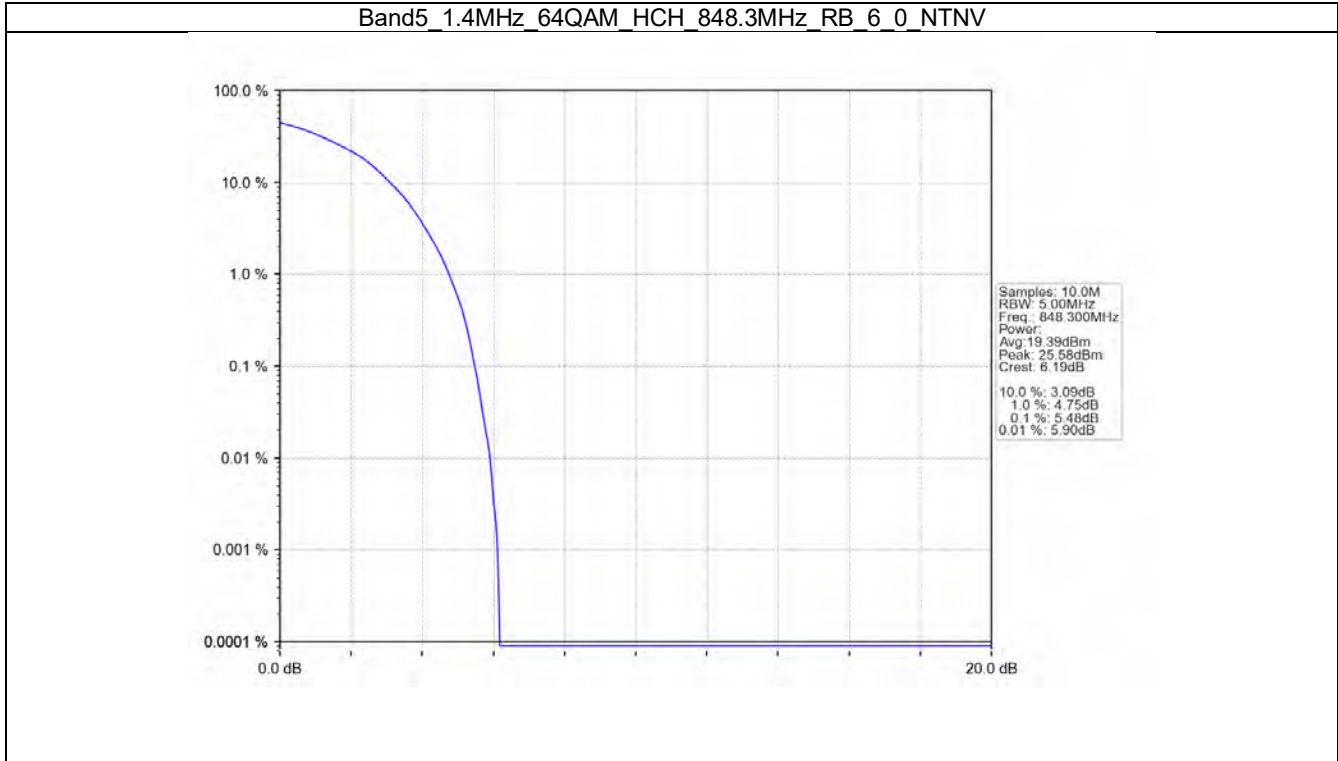


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4.2 B5_3MHz

4.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.07	<=13	Pass
	836.5	15	0	4.99	<=13	Pass
	847.5	15	0	4.89	<=13	Pass
16QAM	825.5	15	0	6.21	<=13	Pass
	836.5	15	0	6.13	<=13	Pass
	847.5	15	0	6.10	<=13	Pass
64QAM	825.5	15	0	5.91	<=13	Pass
	836.5	15	0	5.92	<=13	Pass
	847.5	15	0	5.75	<=13	Pass



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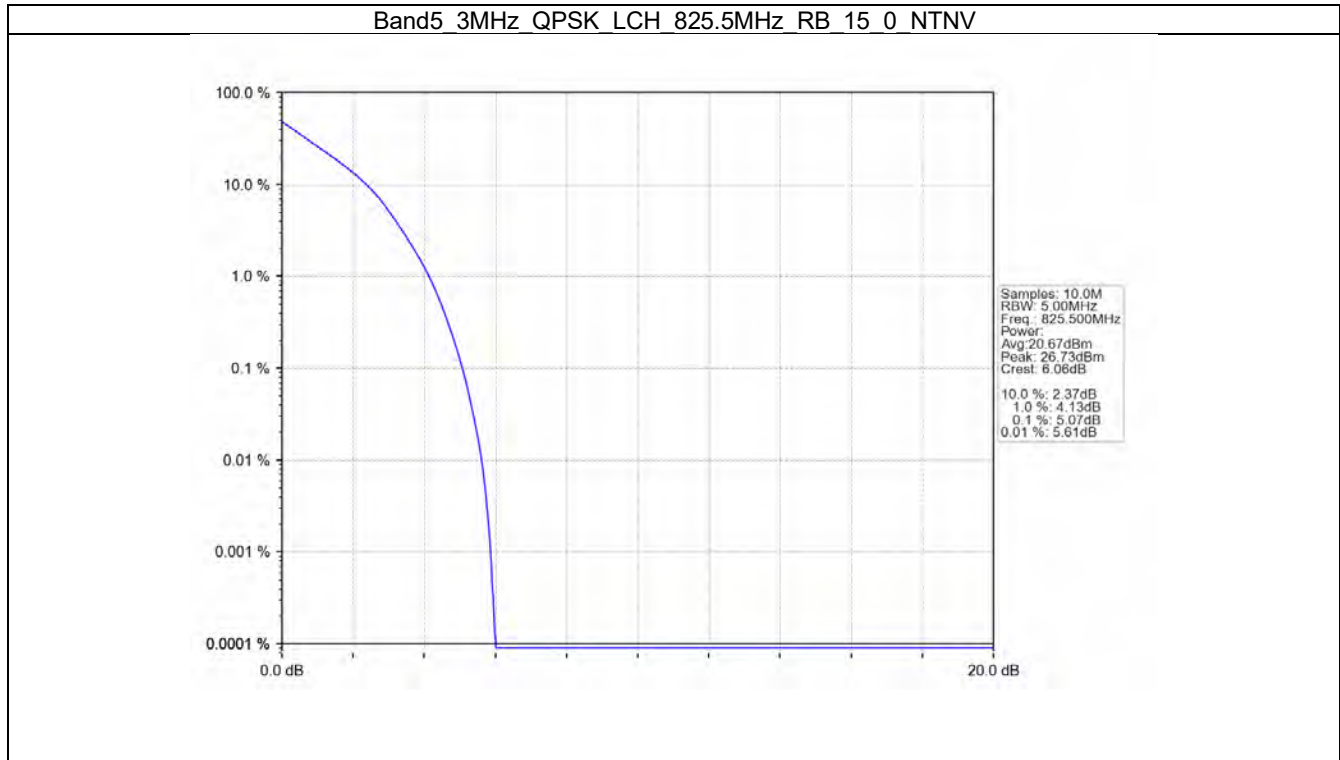
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4.2.2 Test Graph



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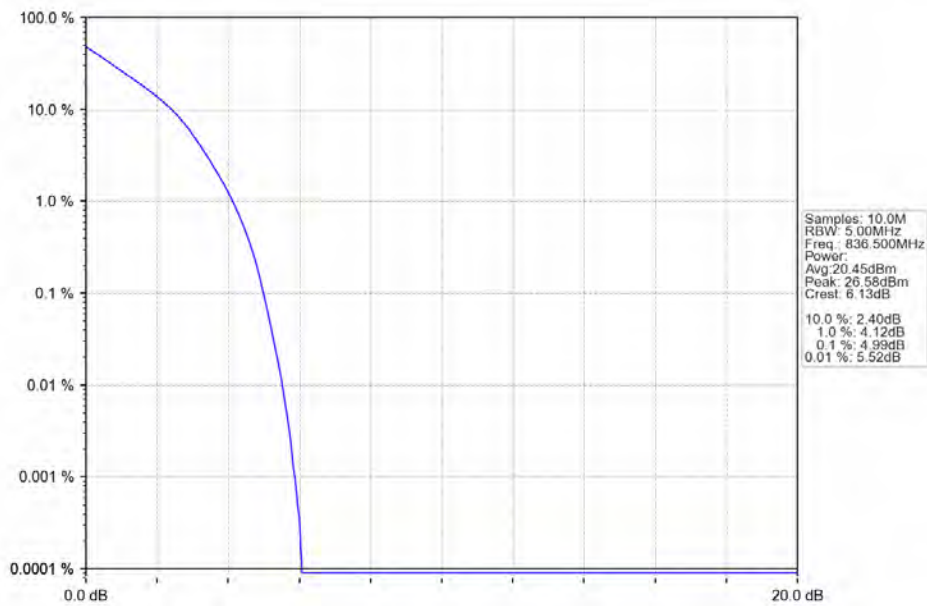
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



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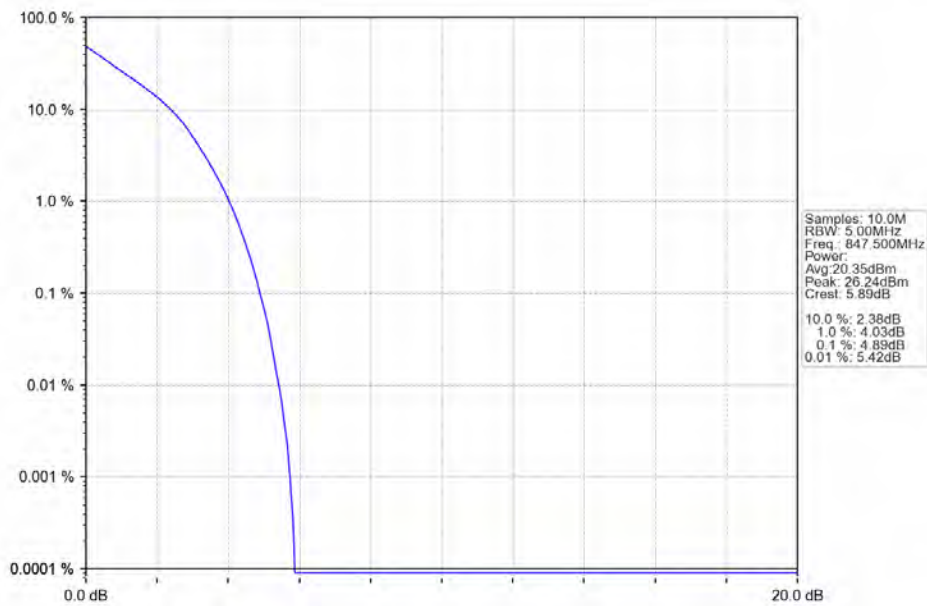
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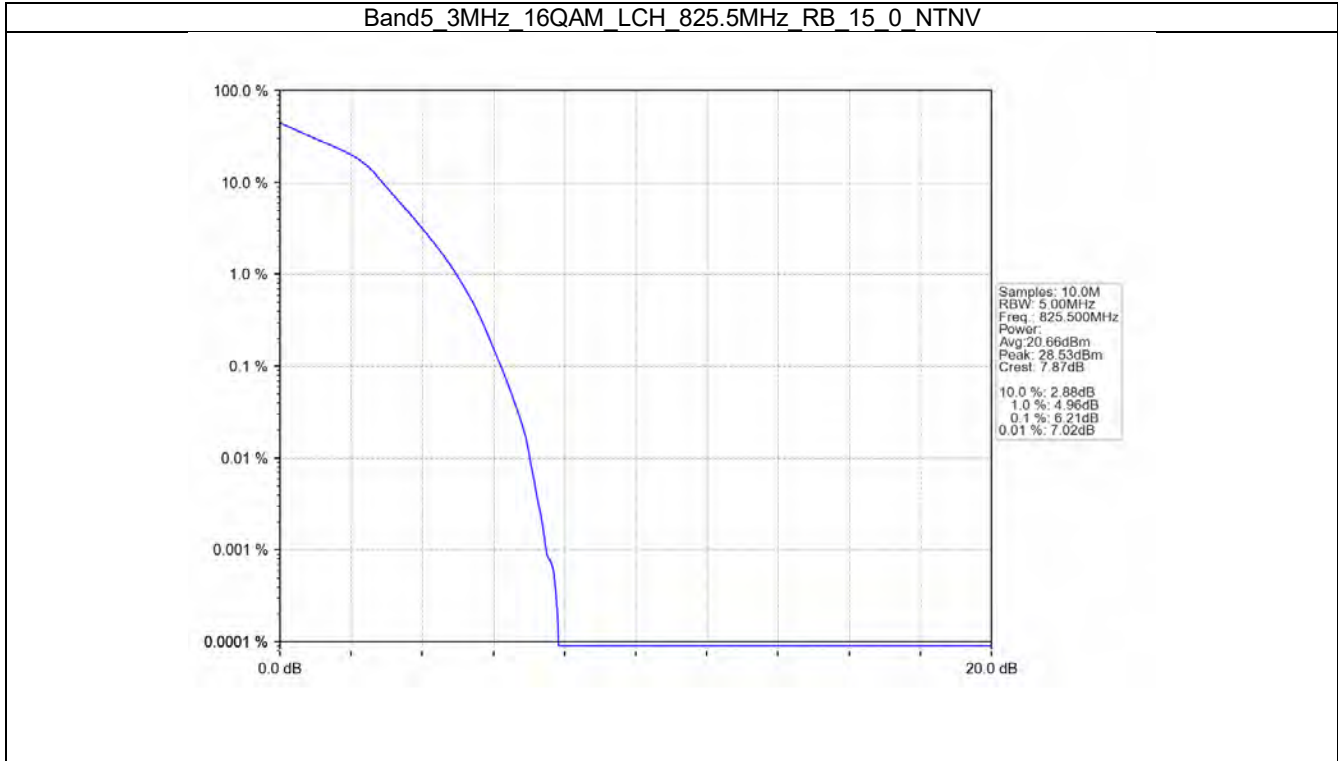


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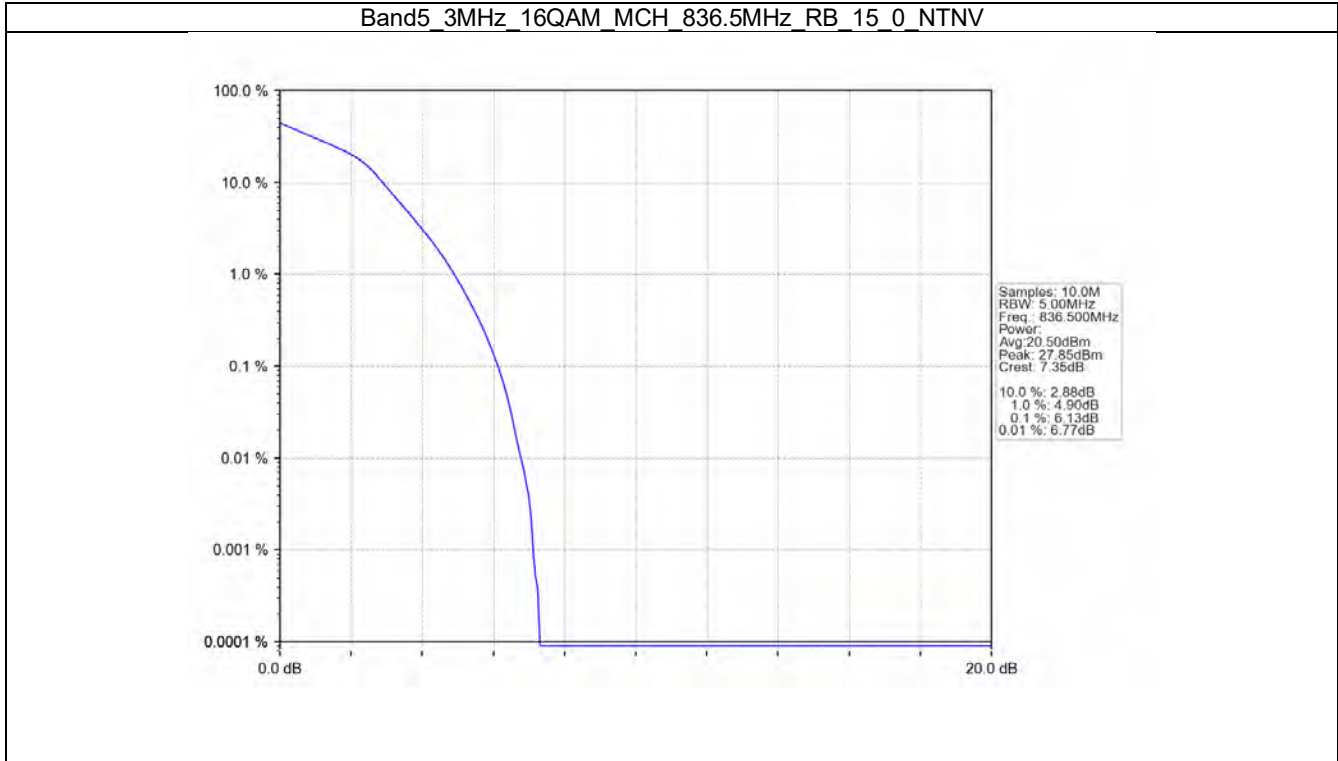


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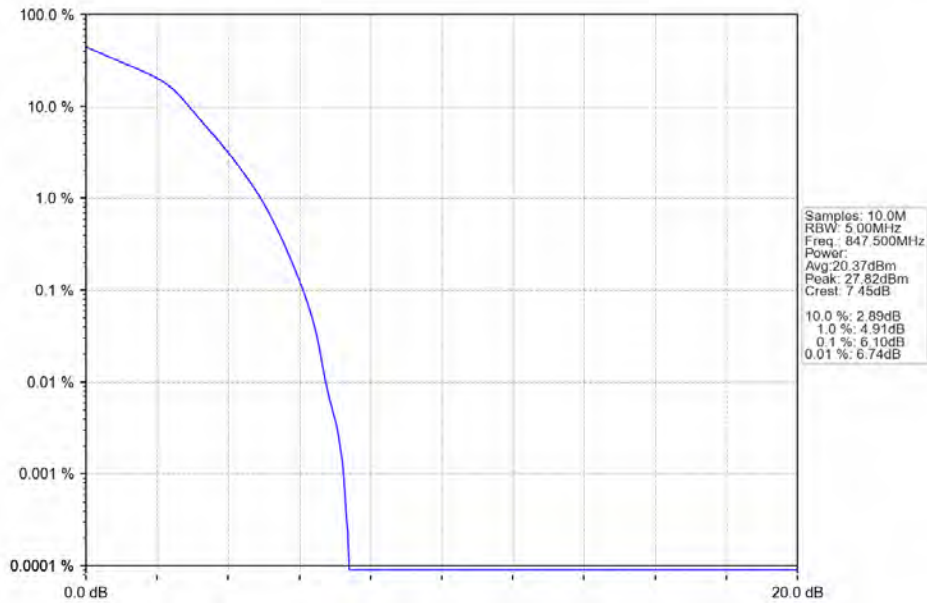
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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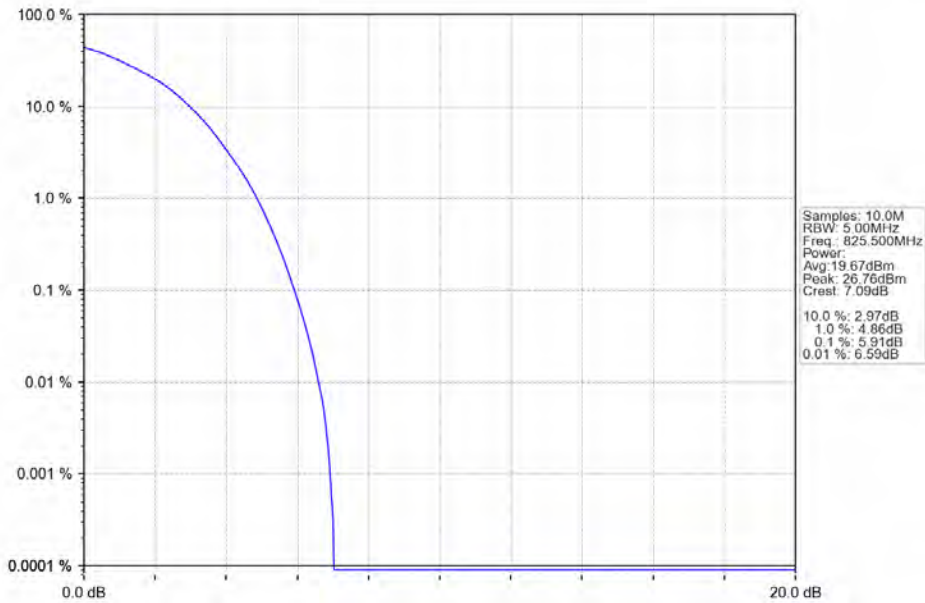
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



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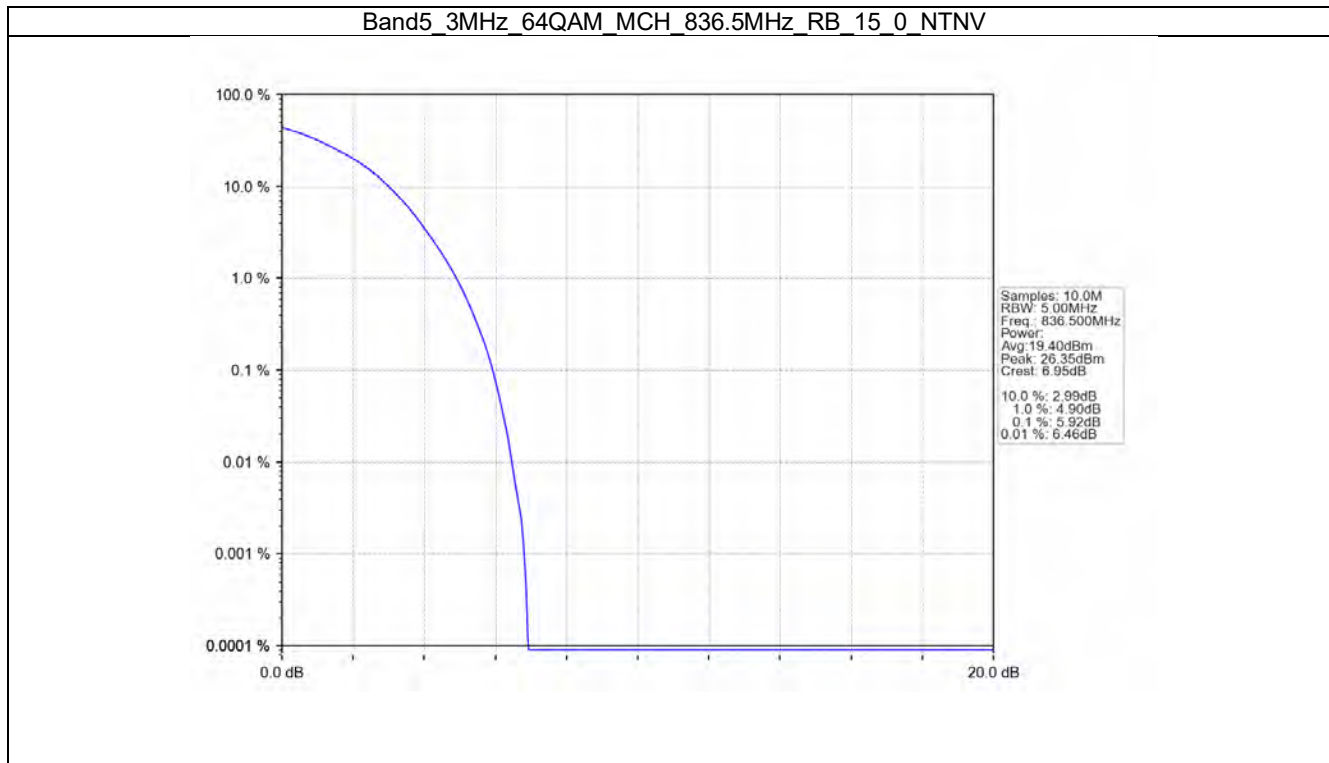
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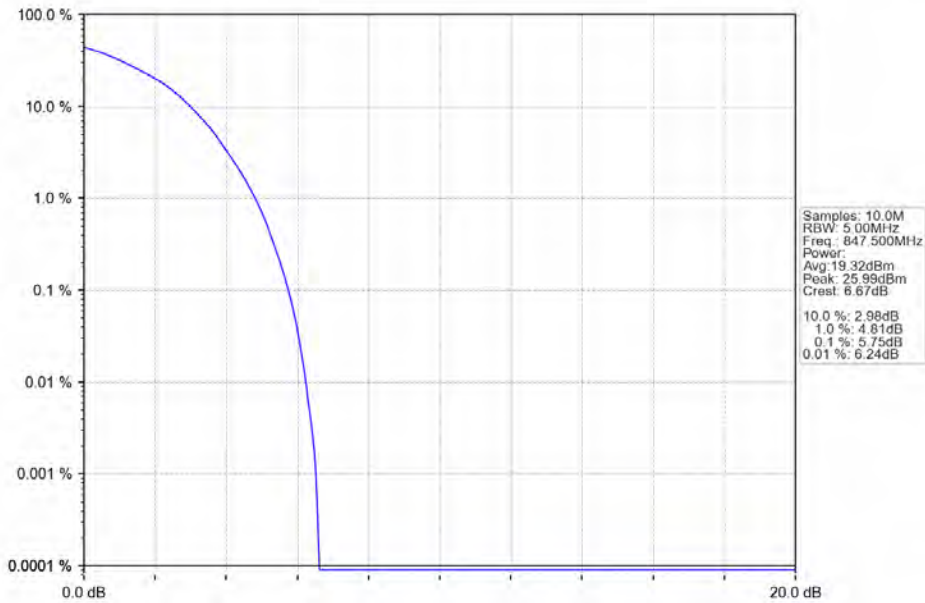
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



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4.3 B5_5MHz

4.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.36	<=13	Pass
	836.5	25	0	5.33	<=13	Pass
	846.5	25	0	5.23	<=13	Pass
16QAM	826.5	25	0	6.23	<=13	Pass
	836.5	25	0	6.24	<=13	Pass
	846.5	25	0	6.21	<=13	Pass
64QAM	826.5	25	0	6.10	<=13	Pass
	836.5	25	0	6.10	<=13	Pass
	846.5	25	0	6.05	<=13	Pass



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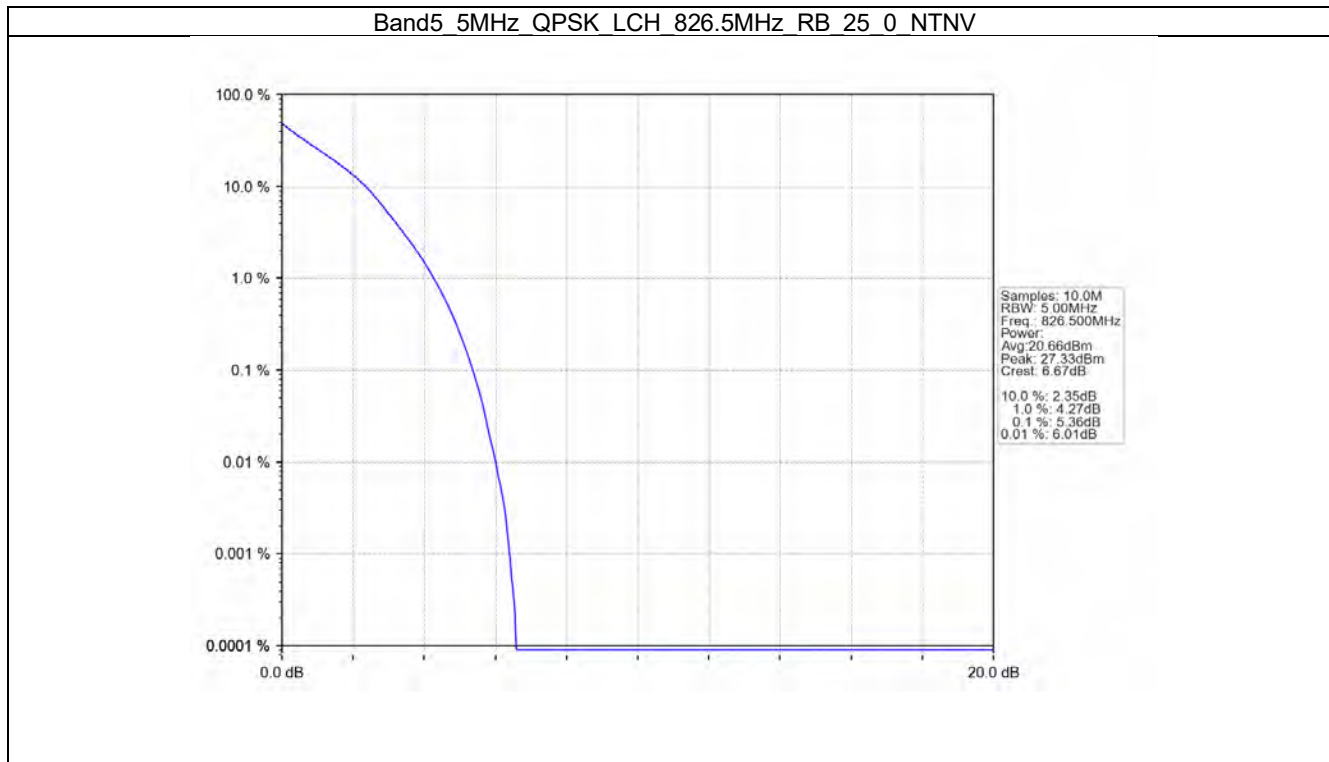
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4.3.2 Test Graph



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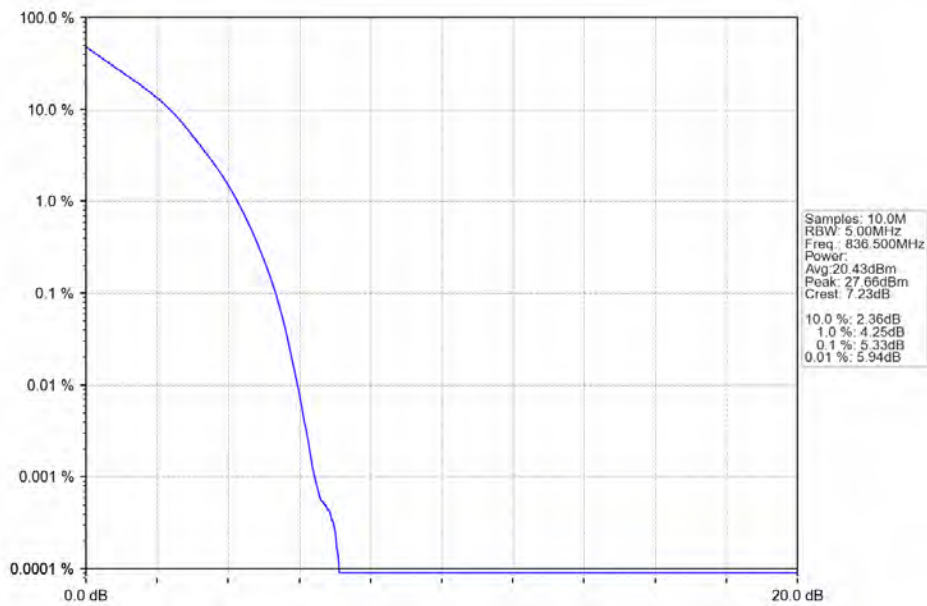
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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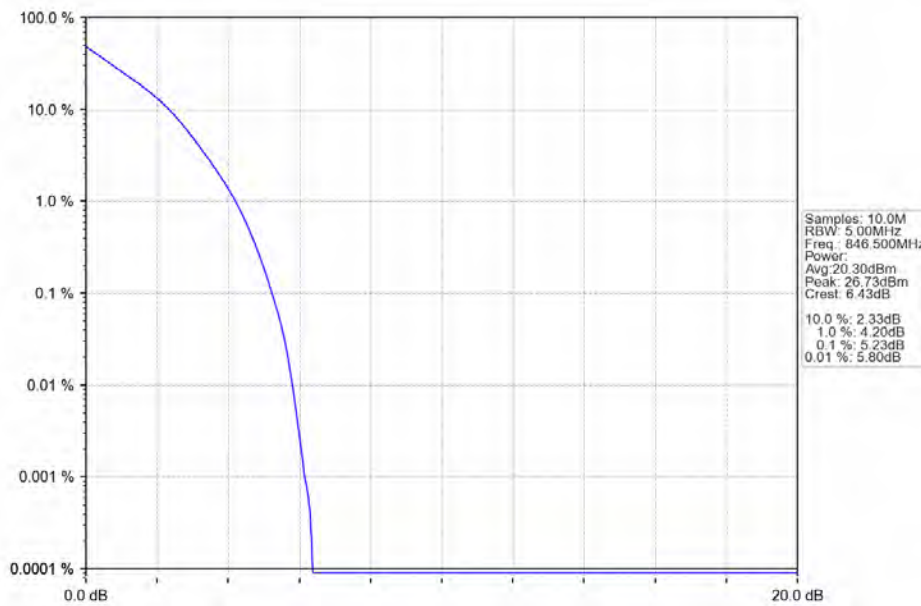
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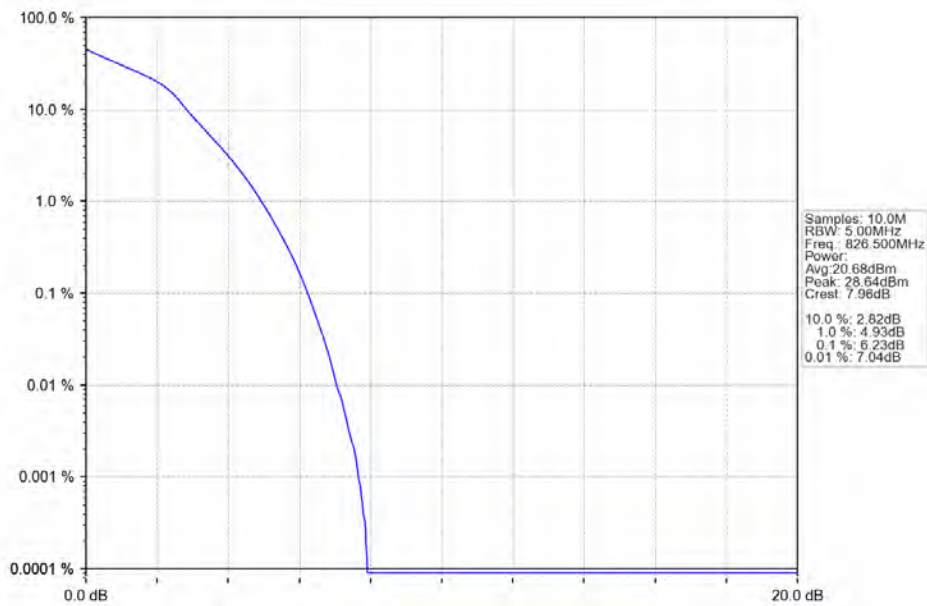
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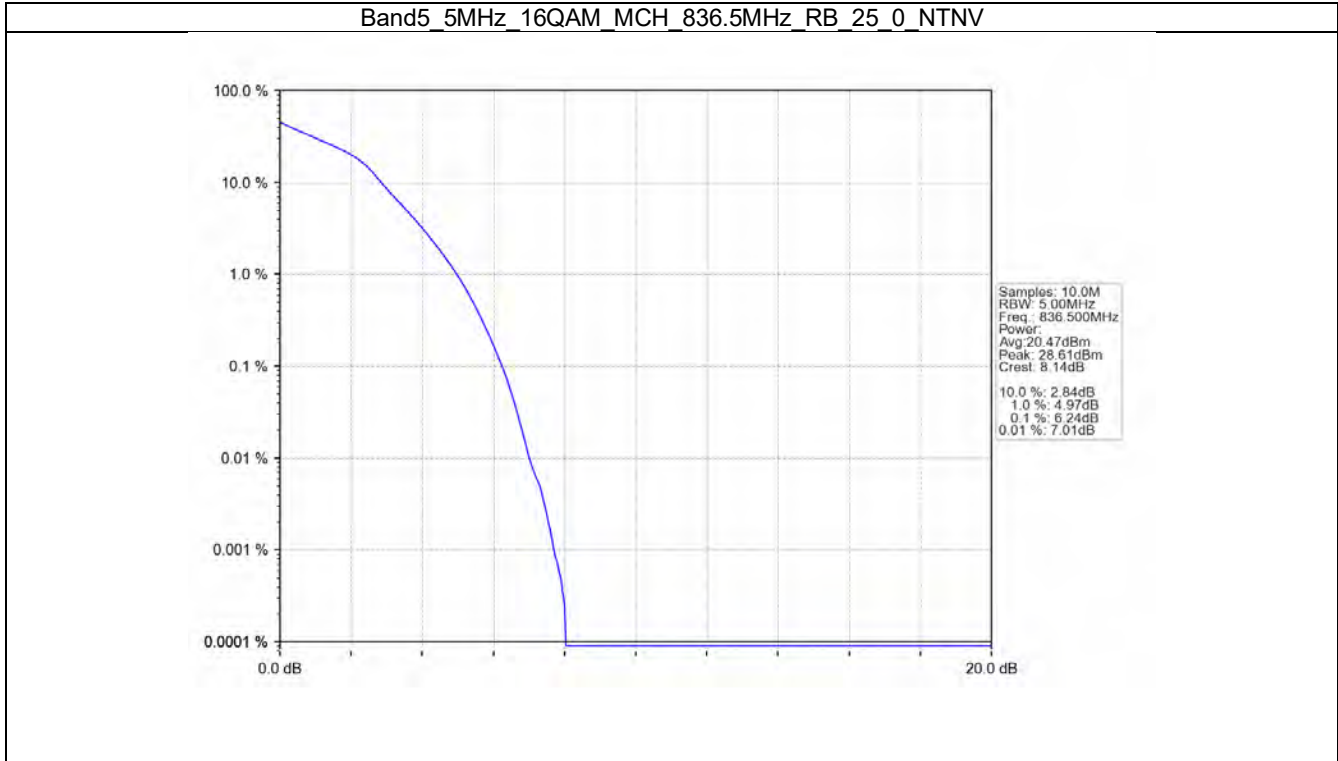


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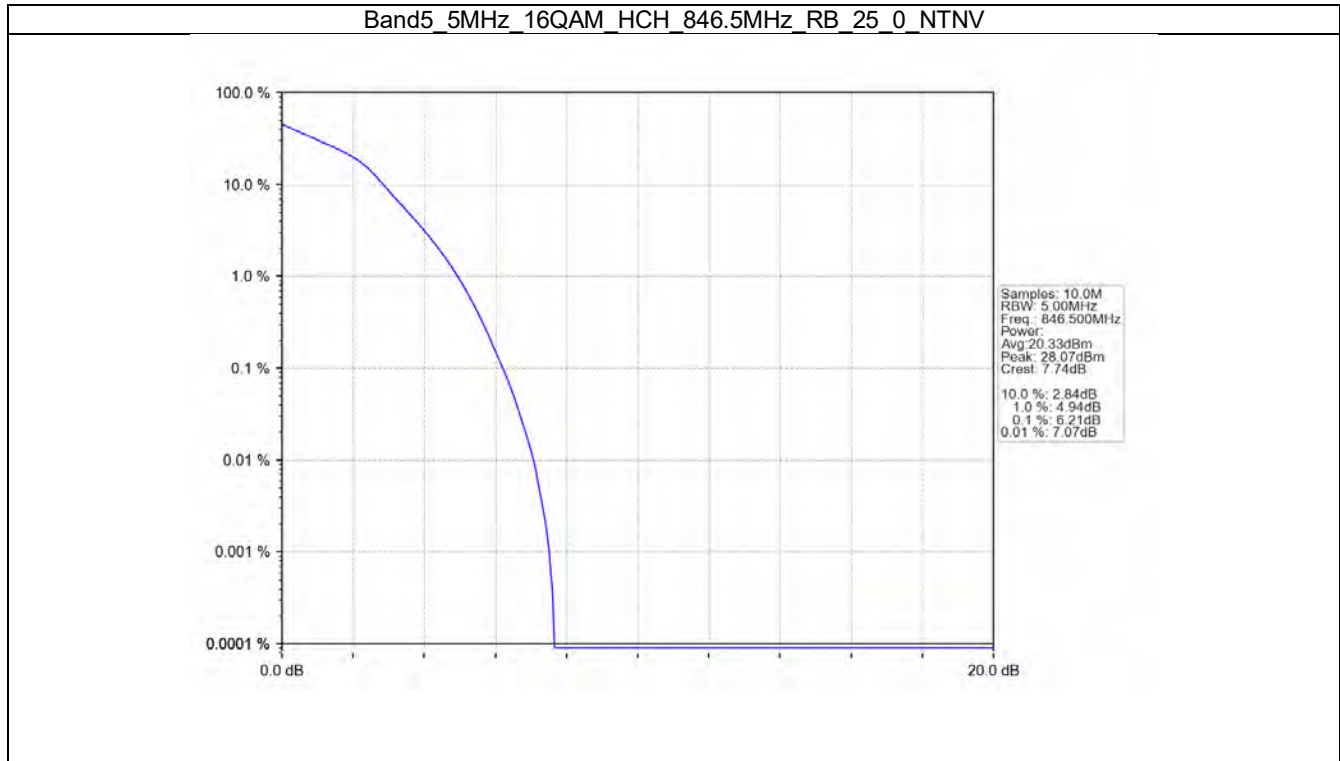


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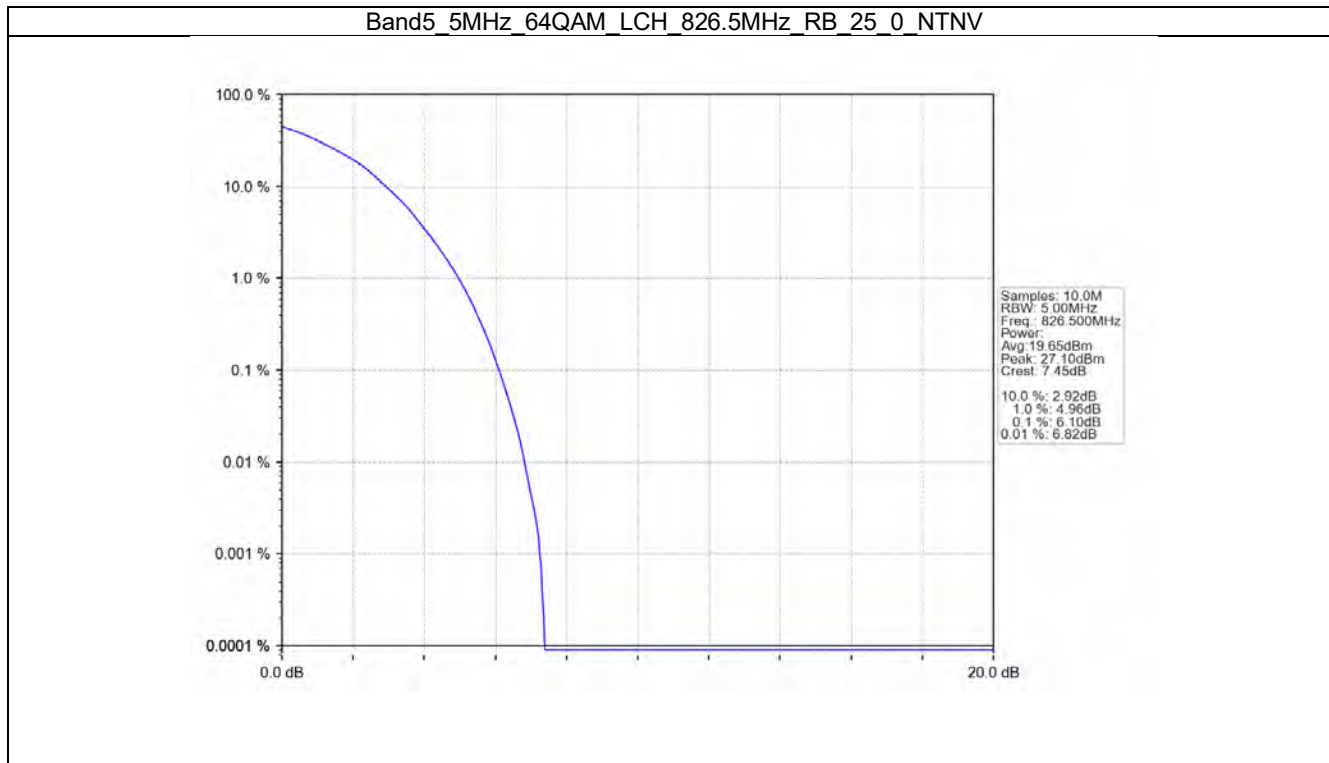
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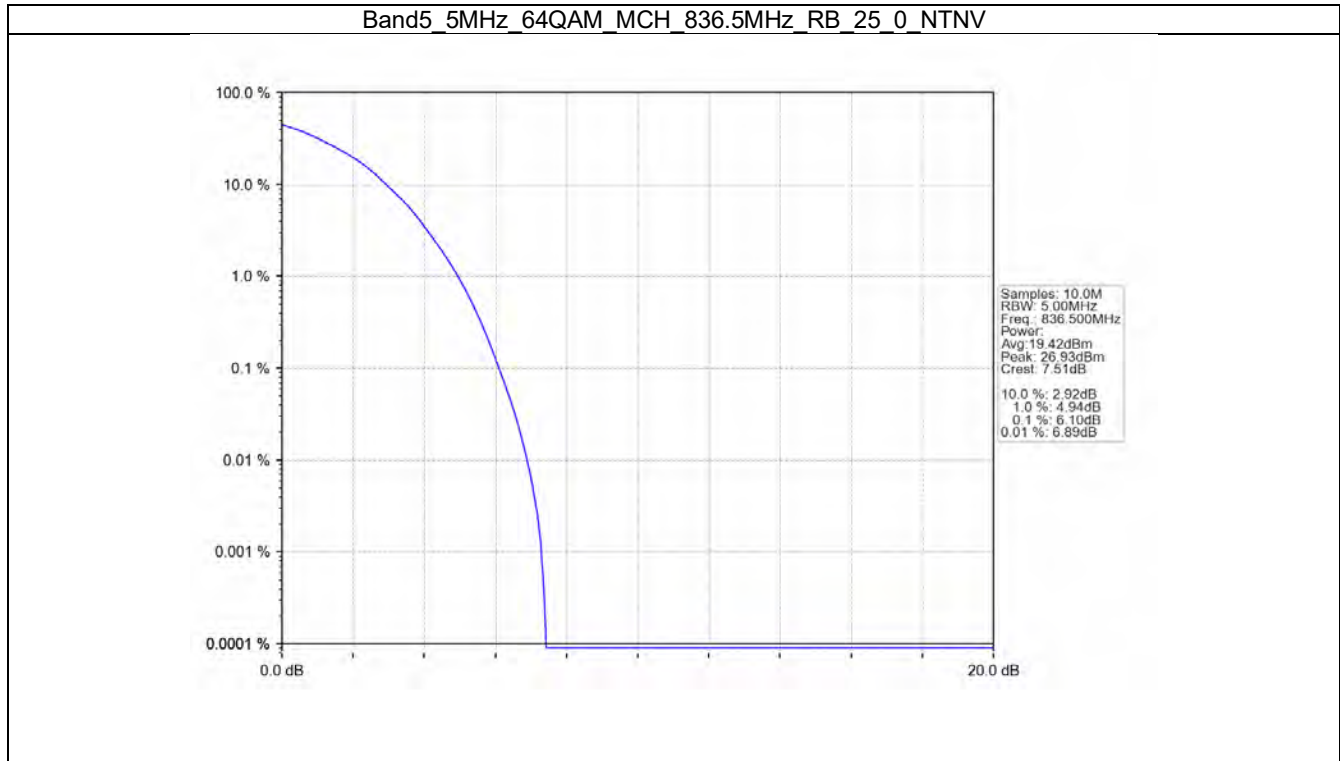
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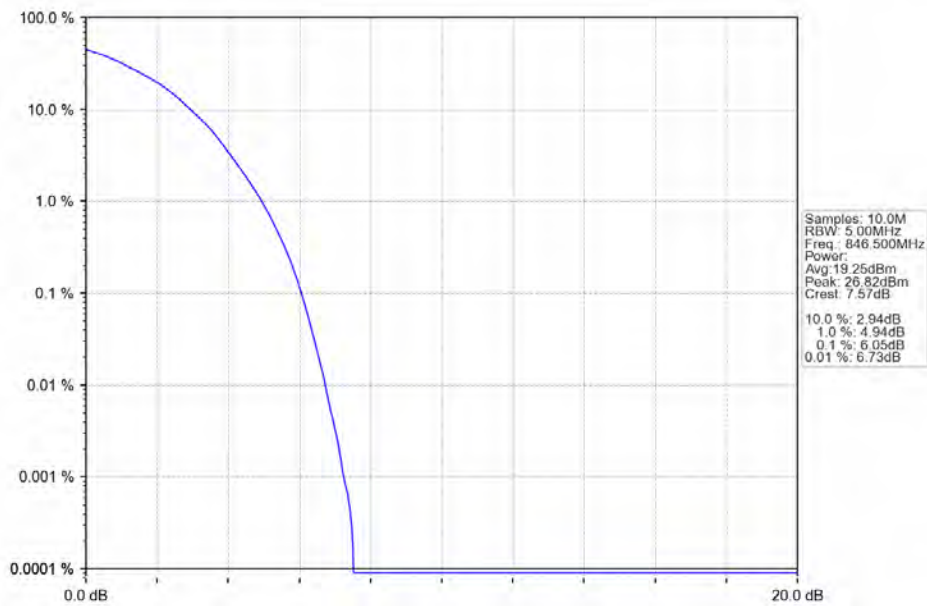
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



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4.4 B5_10MHz

4.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.27	<=13	Pass
	836.5	50	0	5.29	<=13	Pass
	844	50	0	5.31	<=13	Pass
16QAM	829	50	0	6.21	<=13	Pass
	836.5	50	0	6.28	<=13	Pass
	844	50	0	6.29	<=13	Pass
64QAM	829	50	0	6.05	<=13	Pass
	836.5	50	0	6.15	<=13	Pass
	844	50	0	6.16	<=13	Pass



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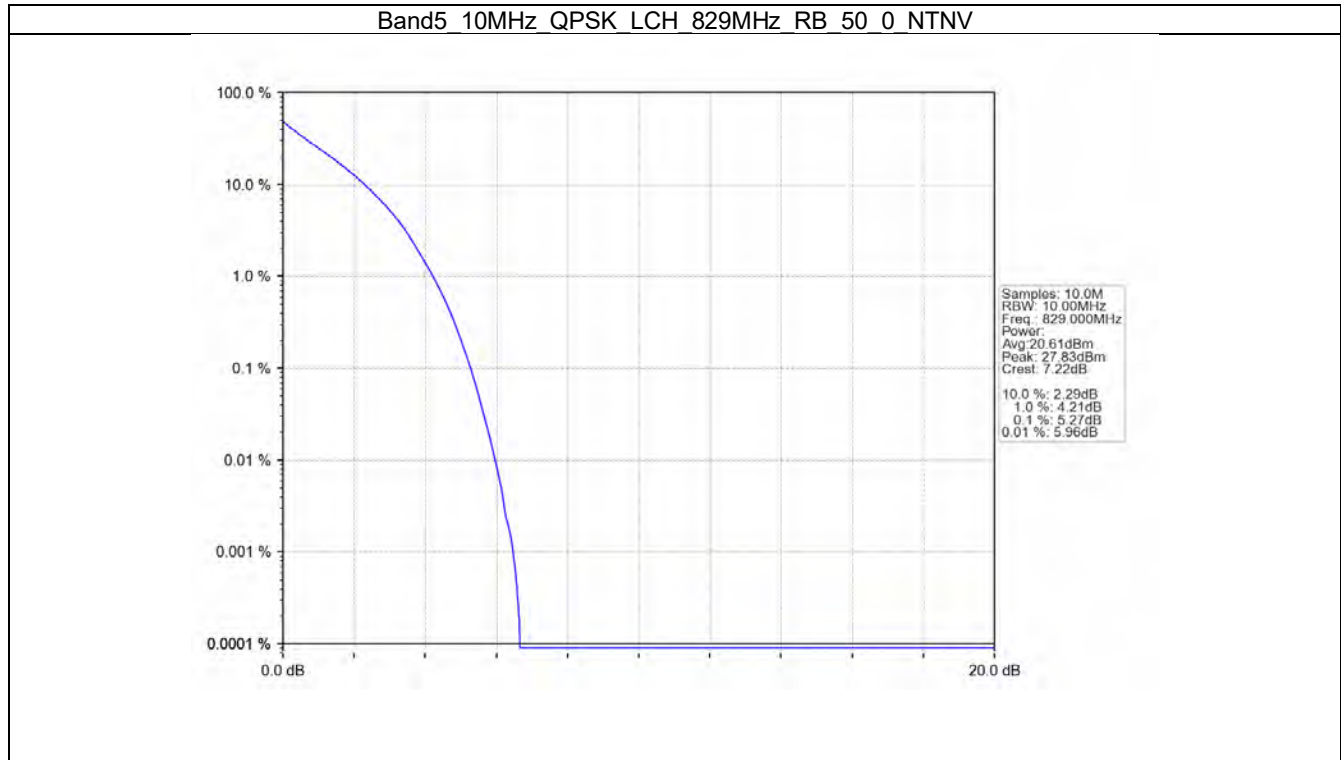
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4.4.2 Test Graph



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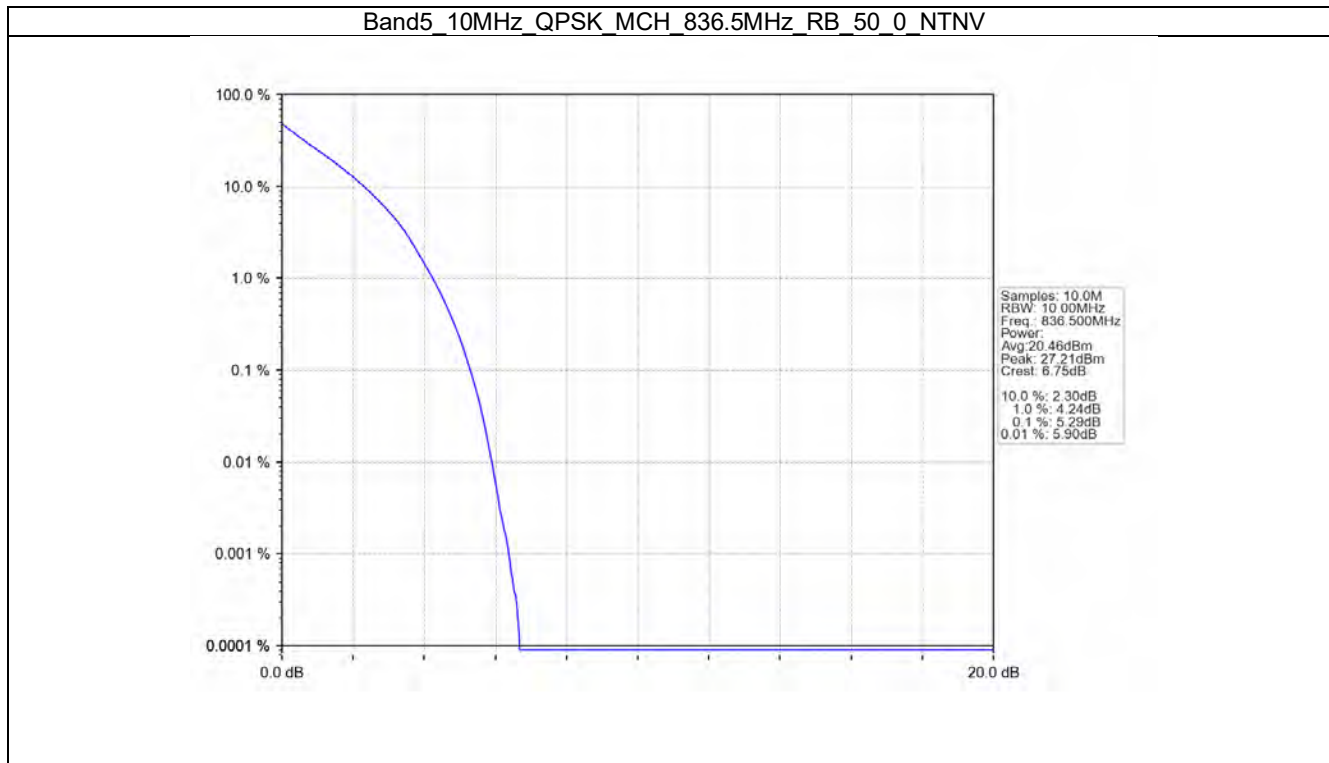
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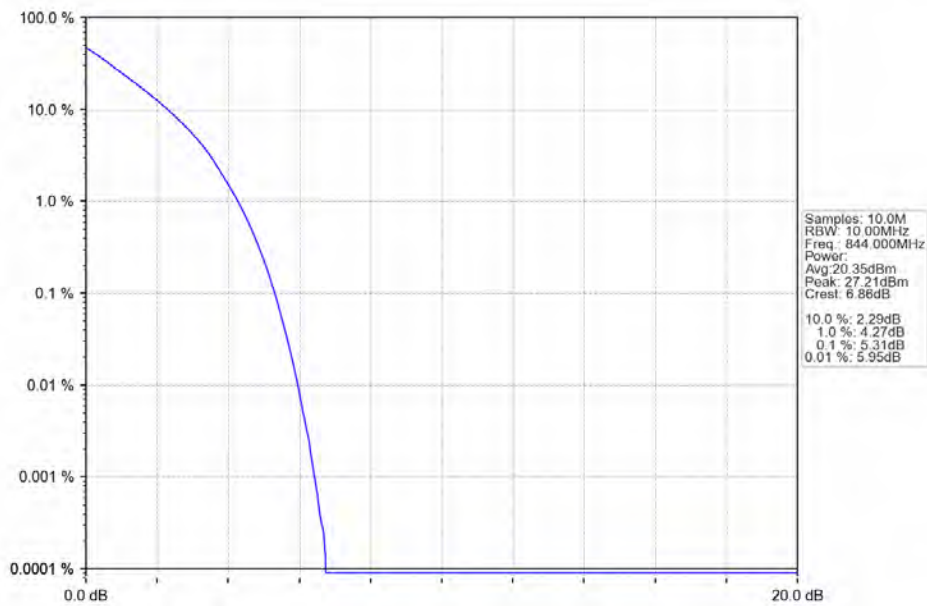
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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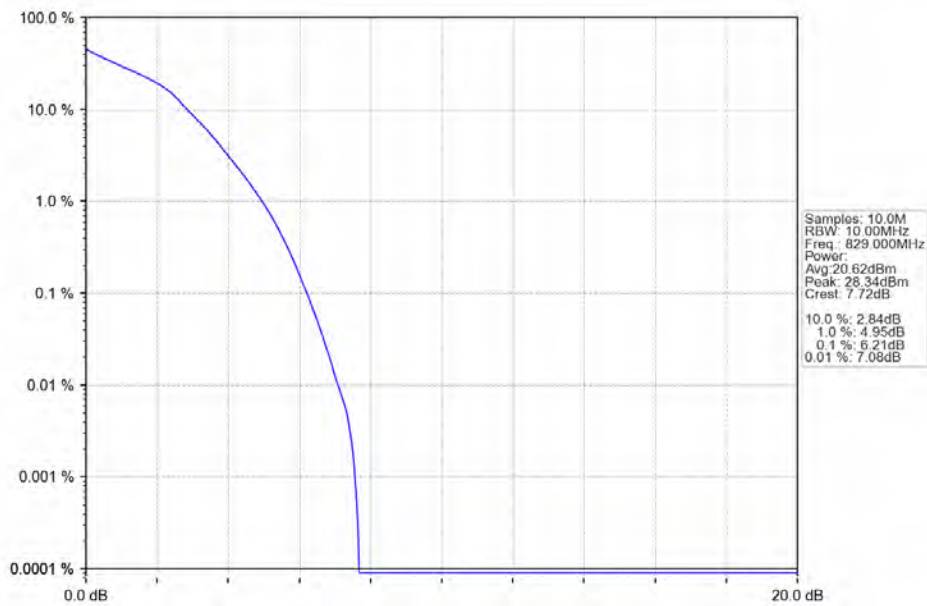
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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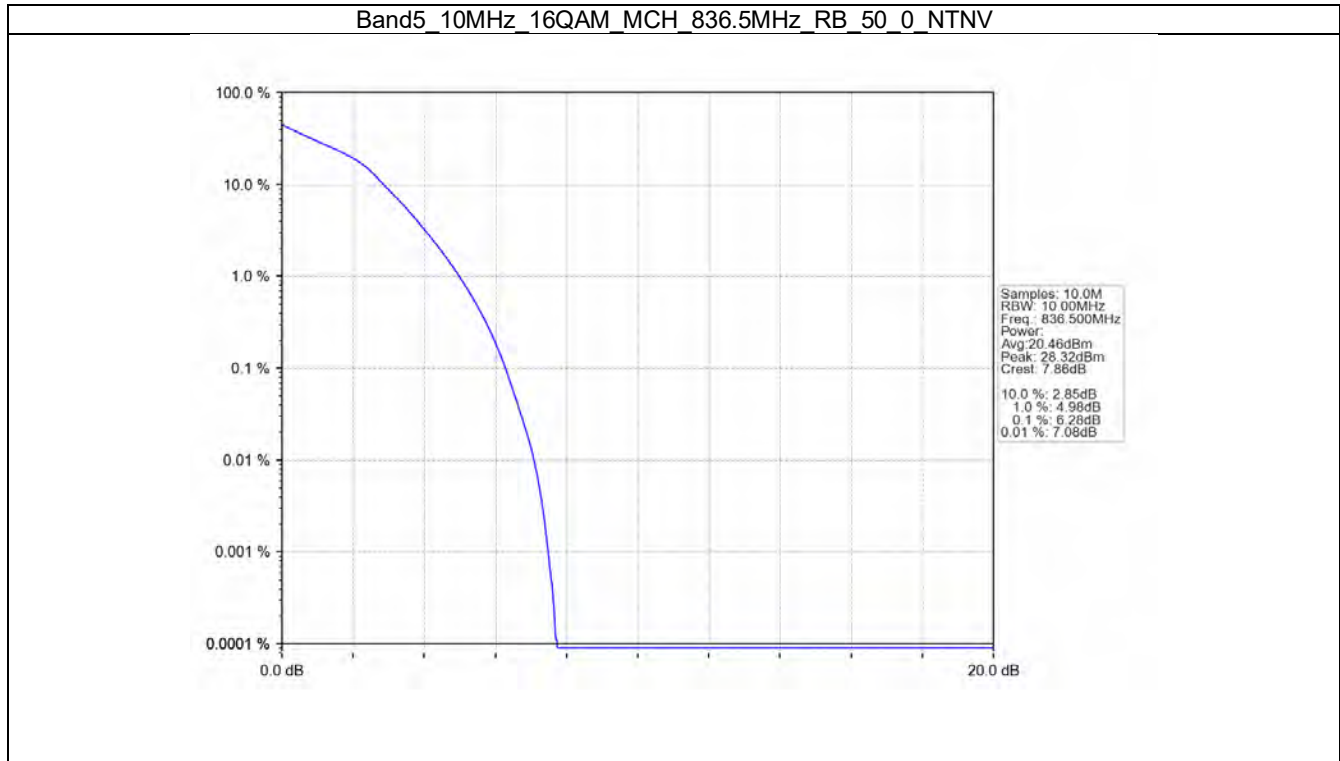


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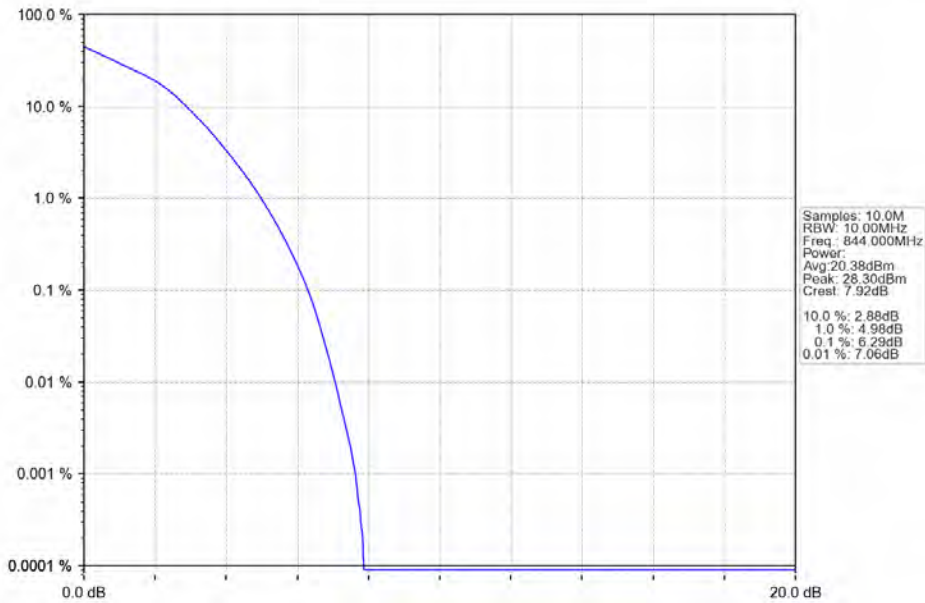
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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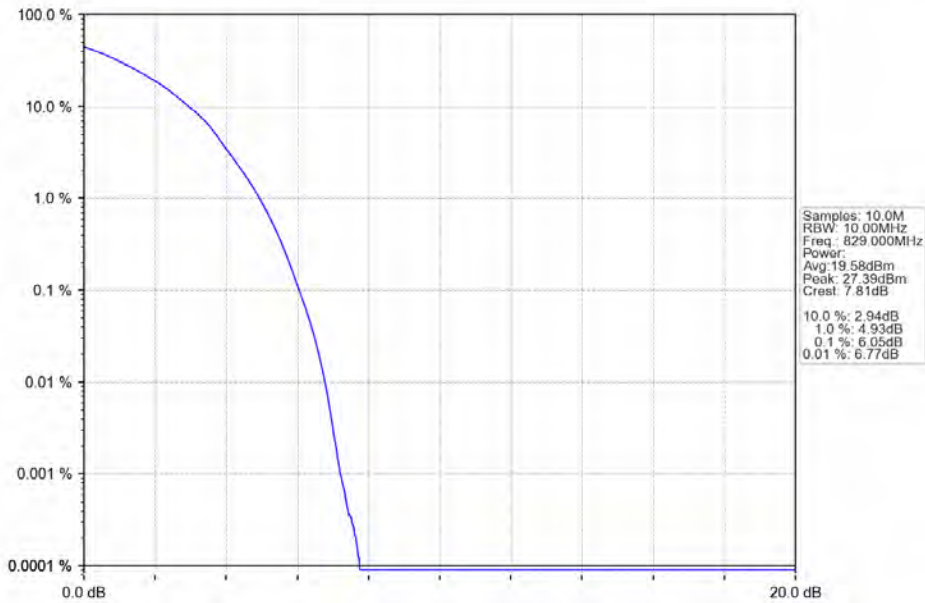
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



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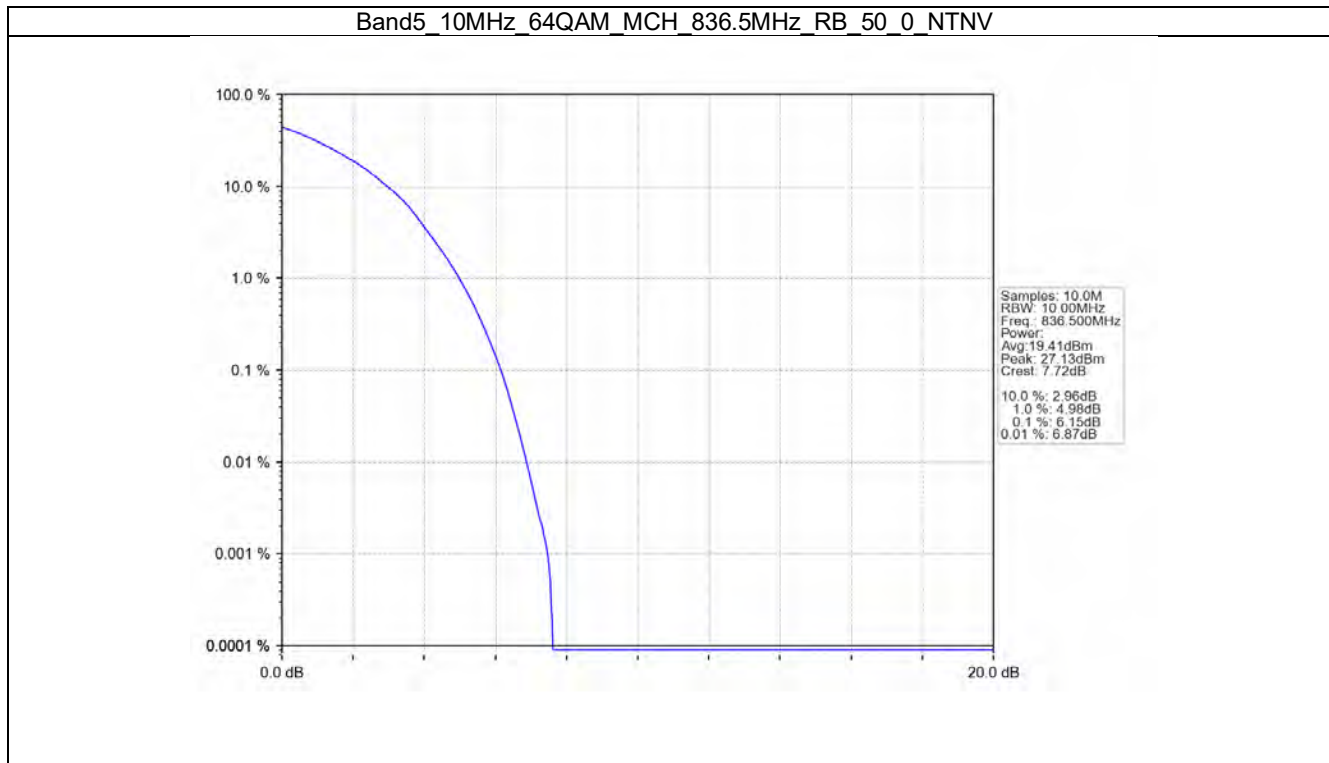
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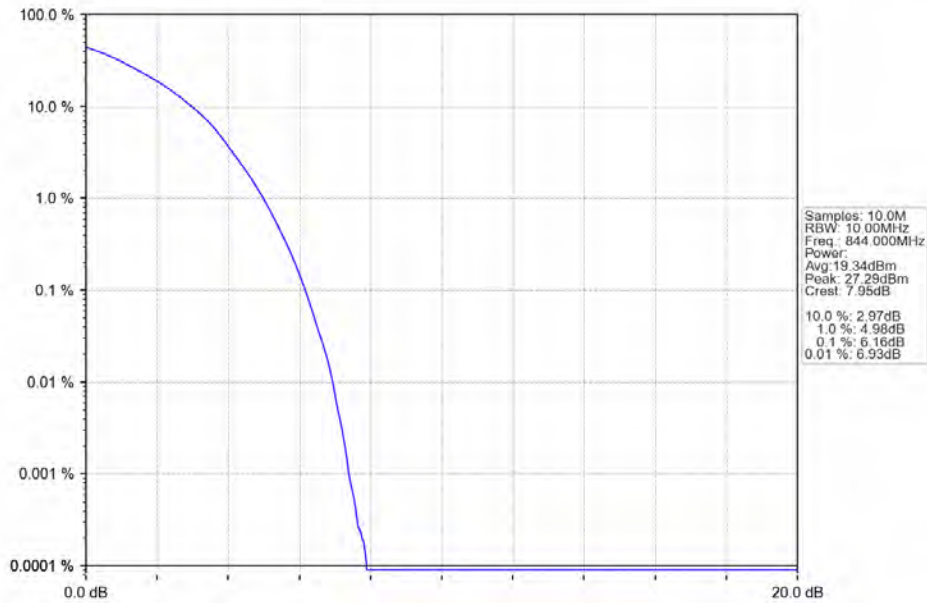
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5. Spurious Emission

5.1 B5_1.4MHz

5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
64QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



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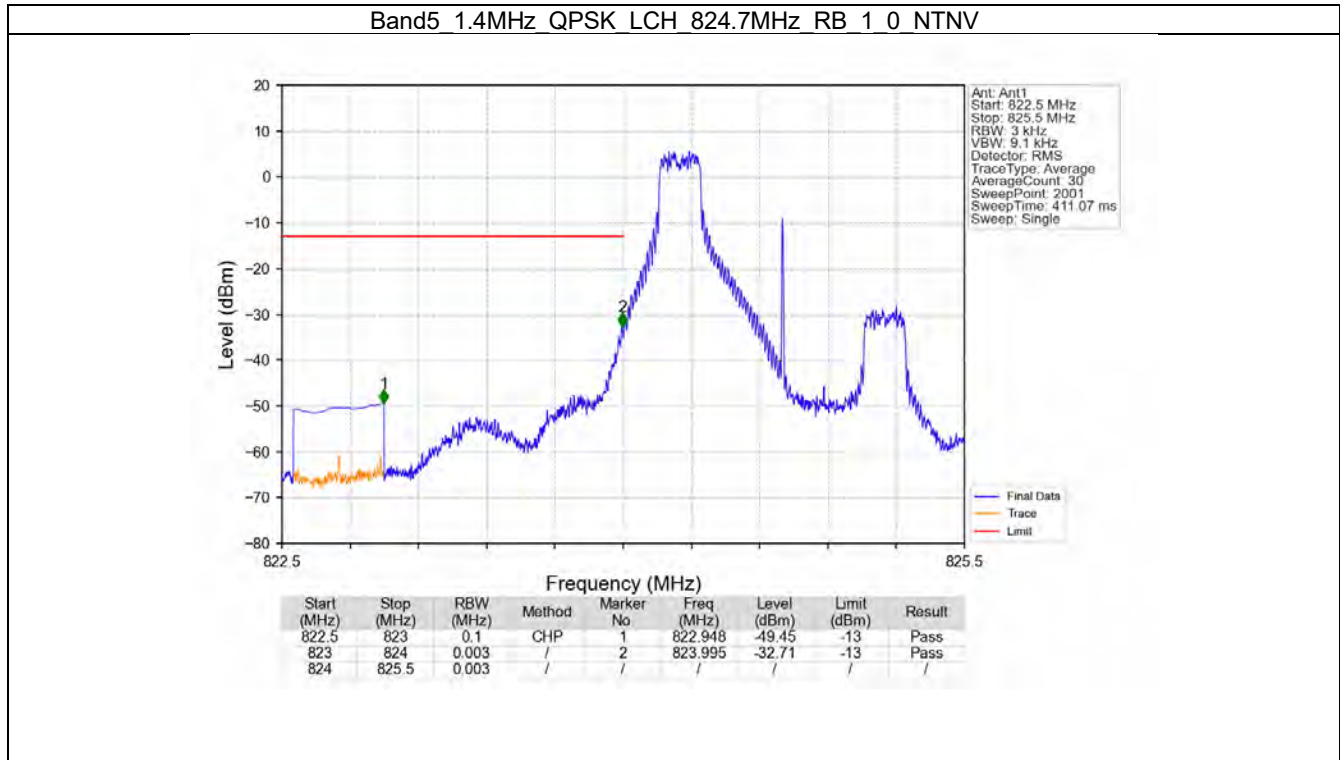
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5.1.2 Test Graph



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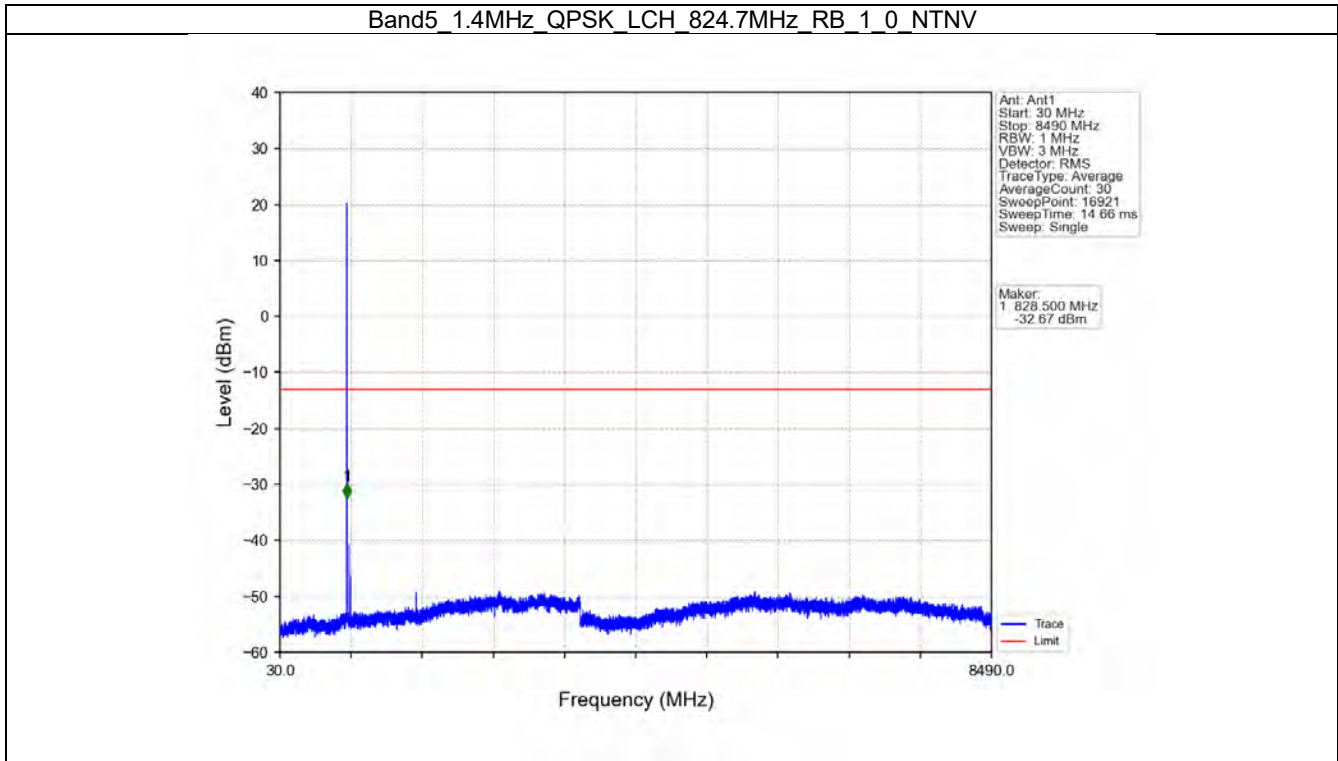


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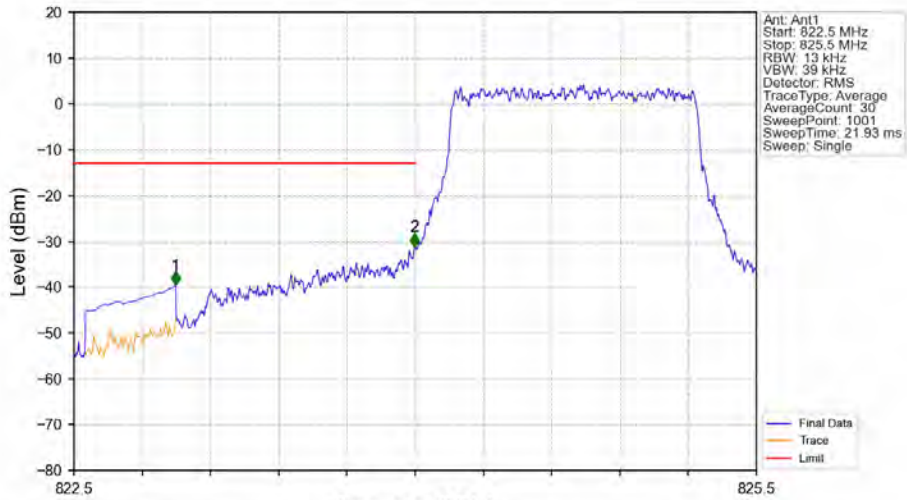
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-39.64	-13	Pass
823	824	0.013	/	2	823.997	-31.24	-13	Pass
824	825.5	0.013	/	/	/	/	/	/



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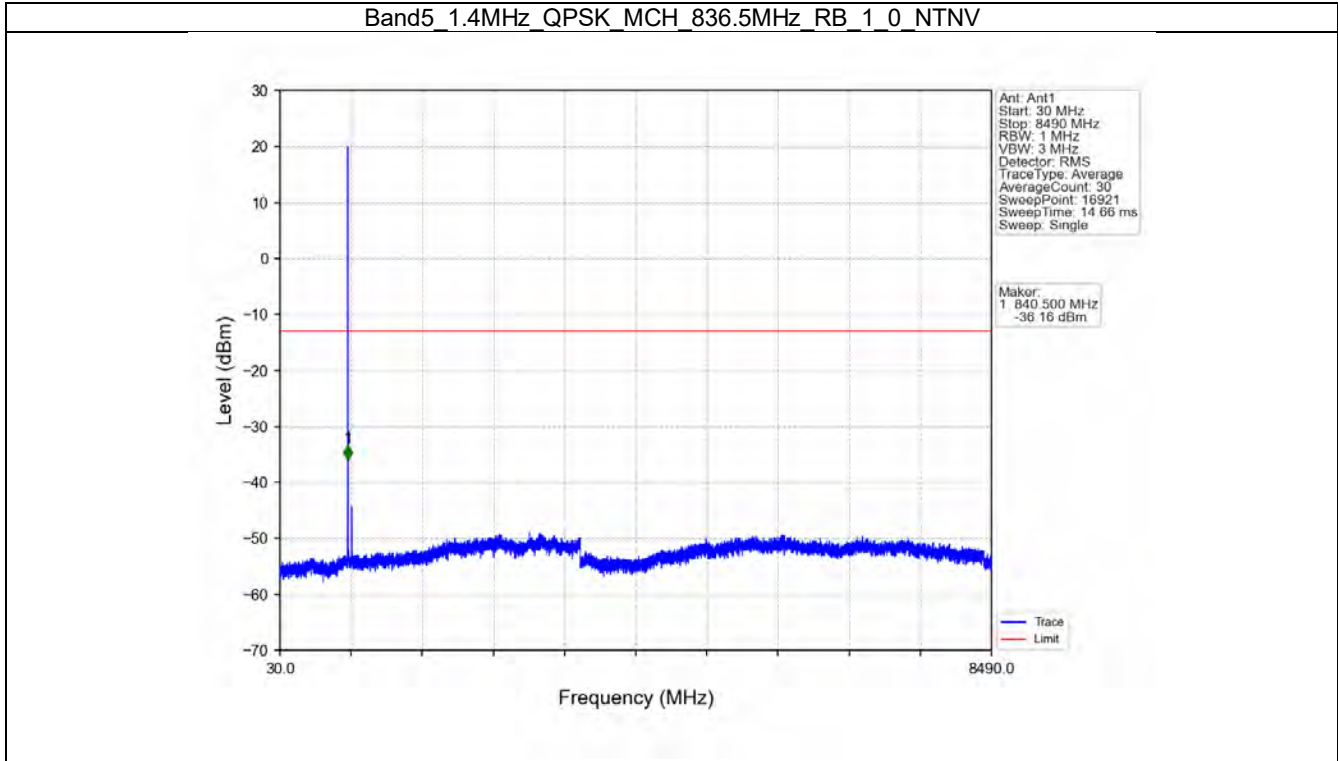


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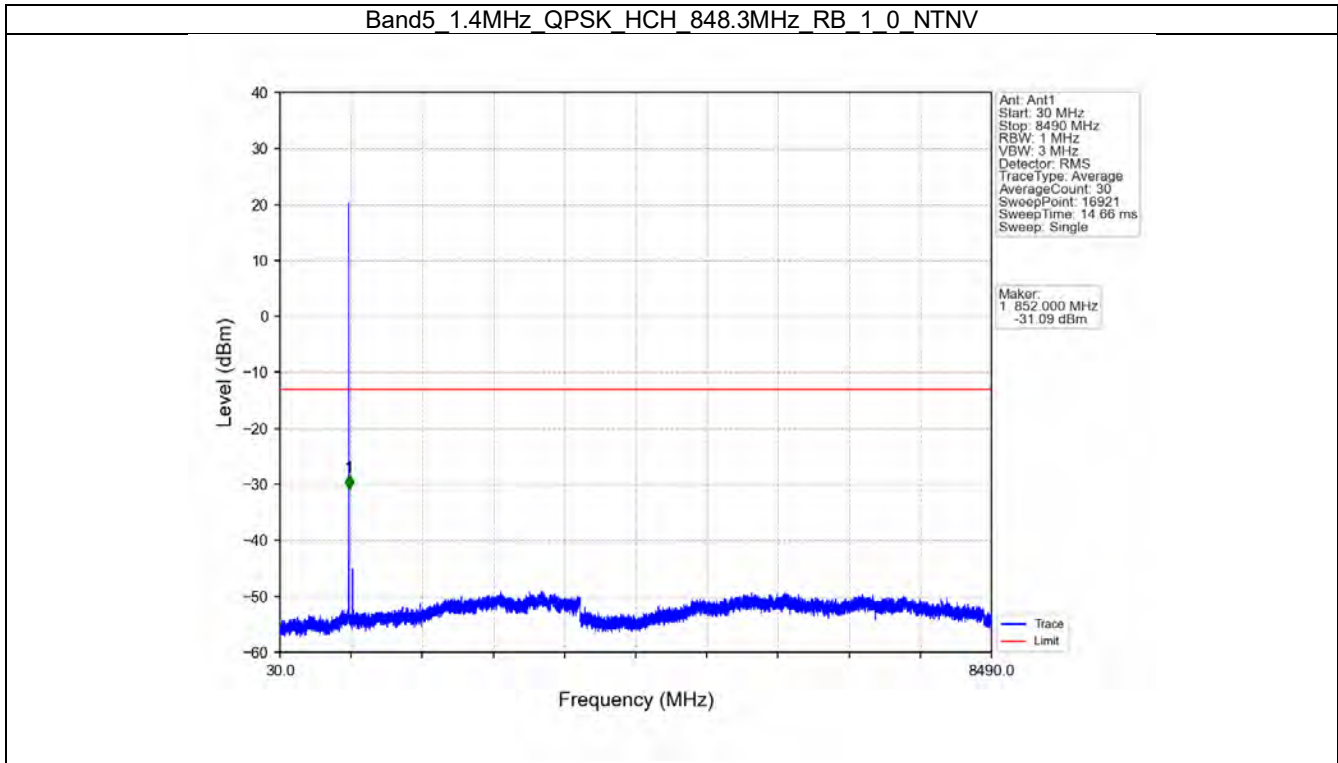


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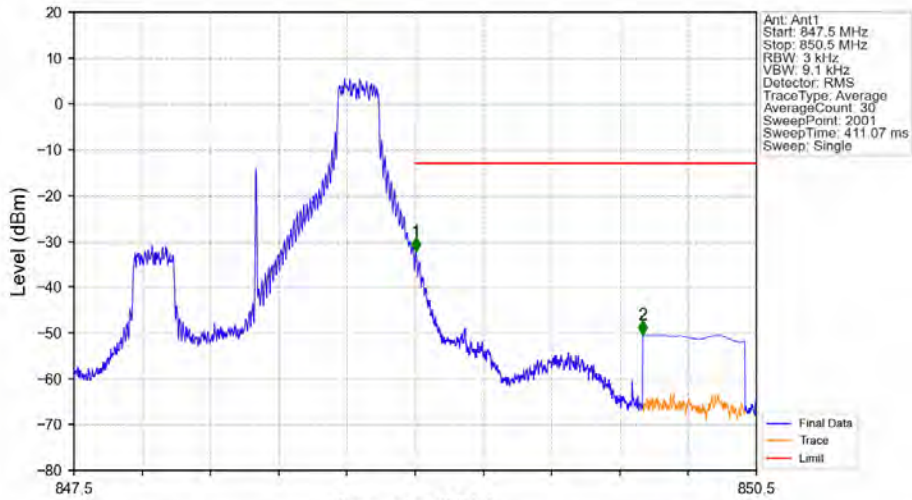
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-32.18	-13	Pass
850	850.5	0.1	CHP	2	850.000	-50.32	-13	Pass



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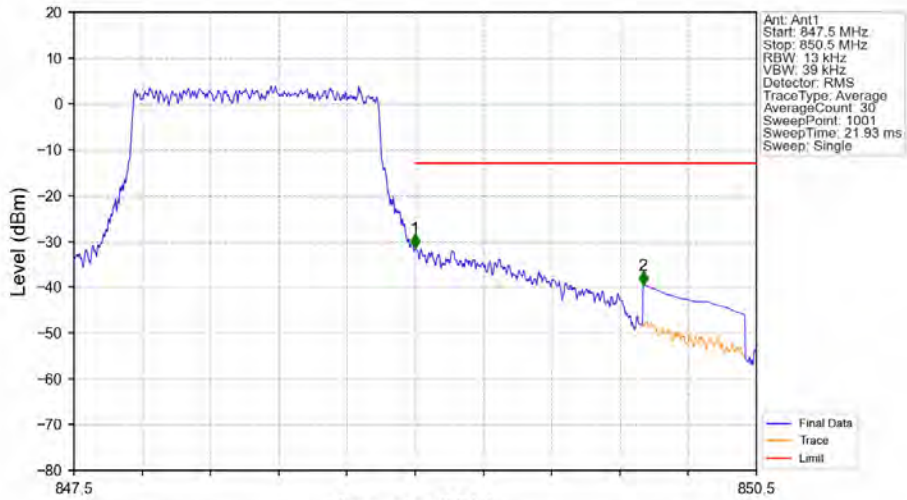
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.000	-31.53	-13	Pass
850	850.5	0.1	CHP	2	850.002	-39.57	-13	Pass



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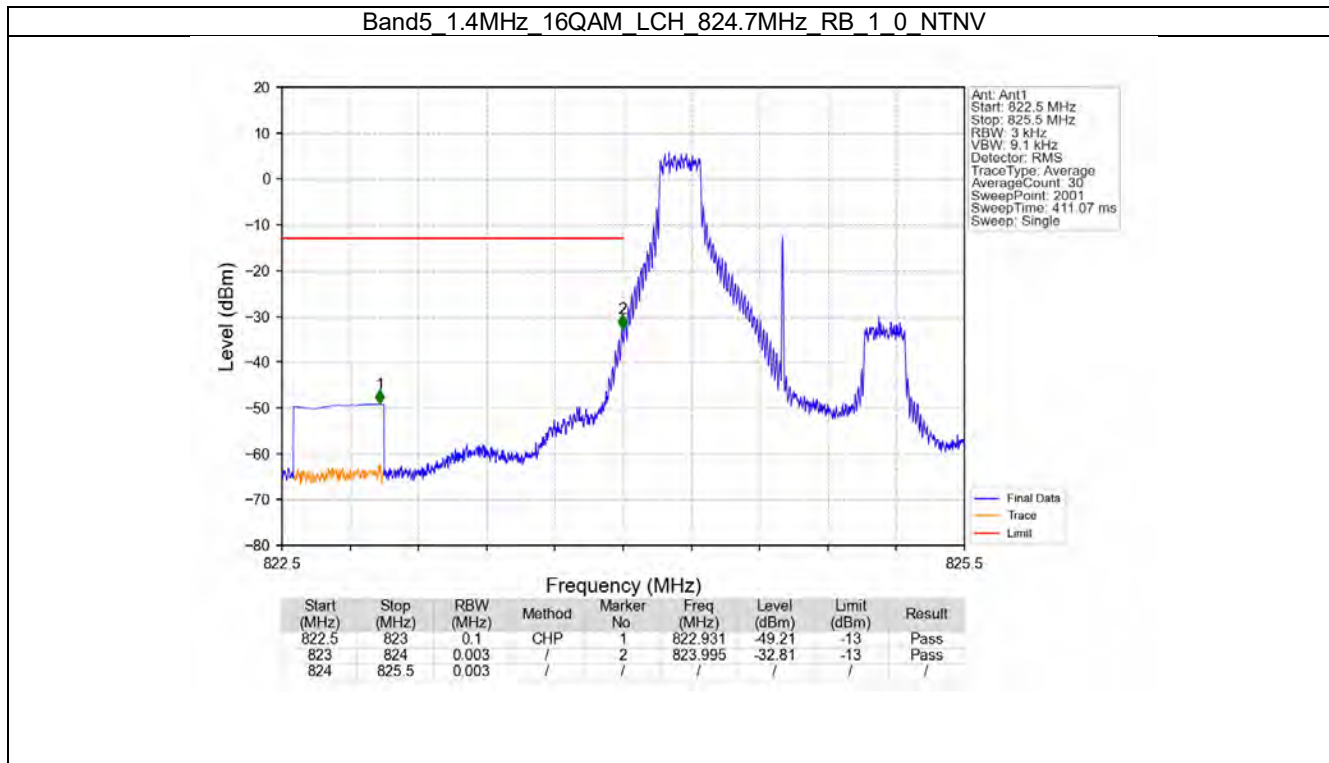
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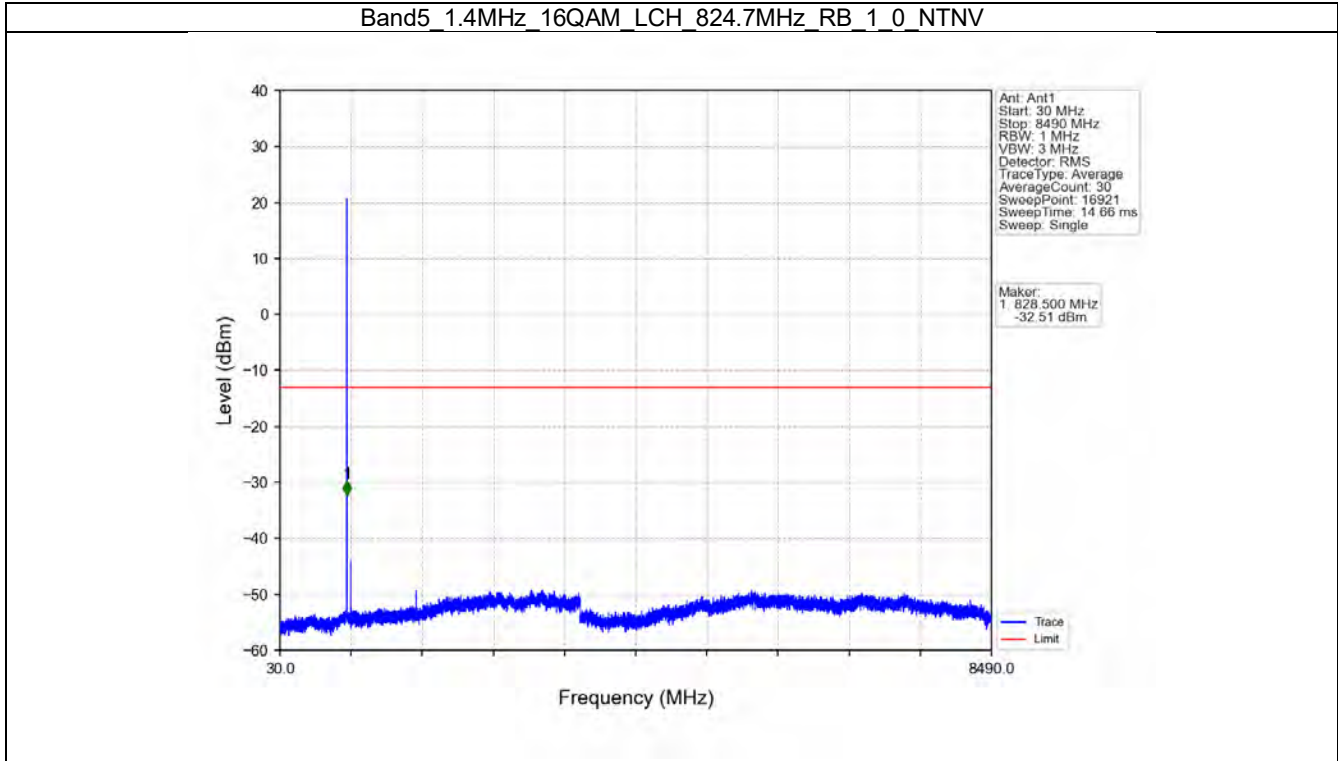


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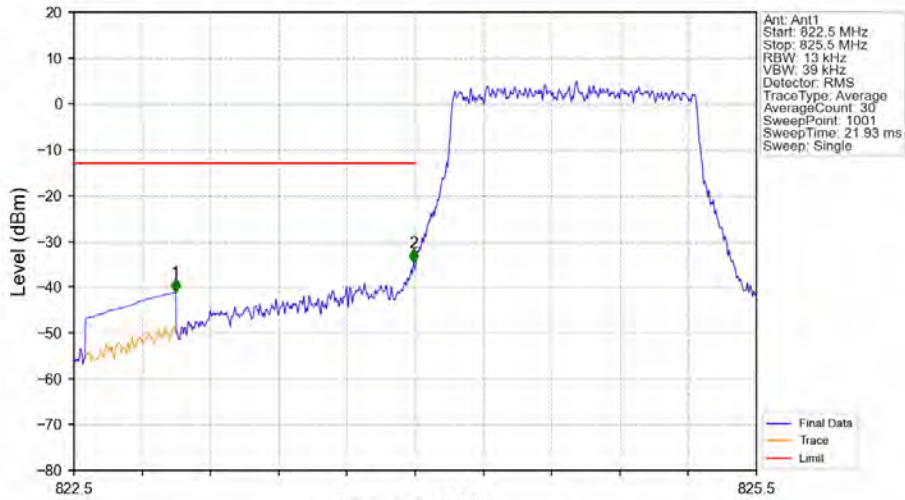
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-41.23	-13	Pass
823	824	0.013	/	2	823.994	-34.66	-13	Pass
824	825.5	0.013	/	/	/	/	/	/



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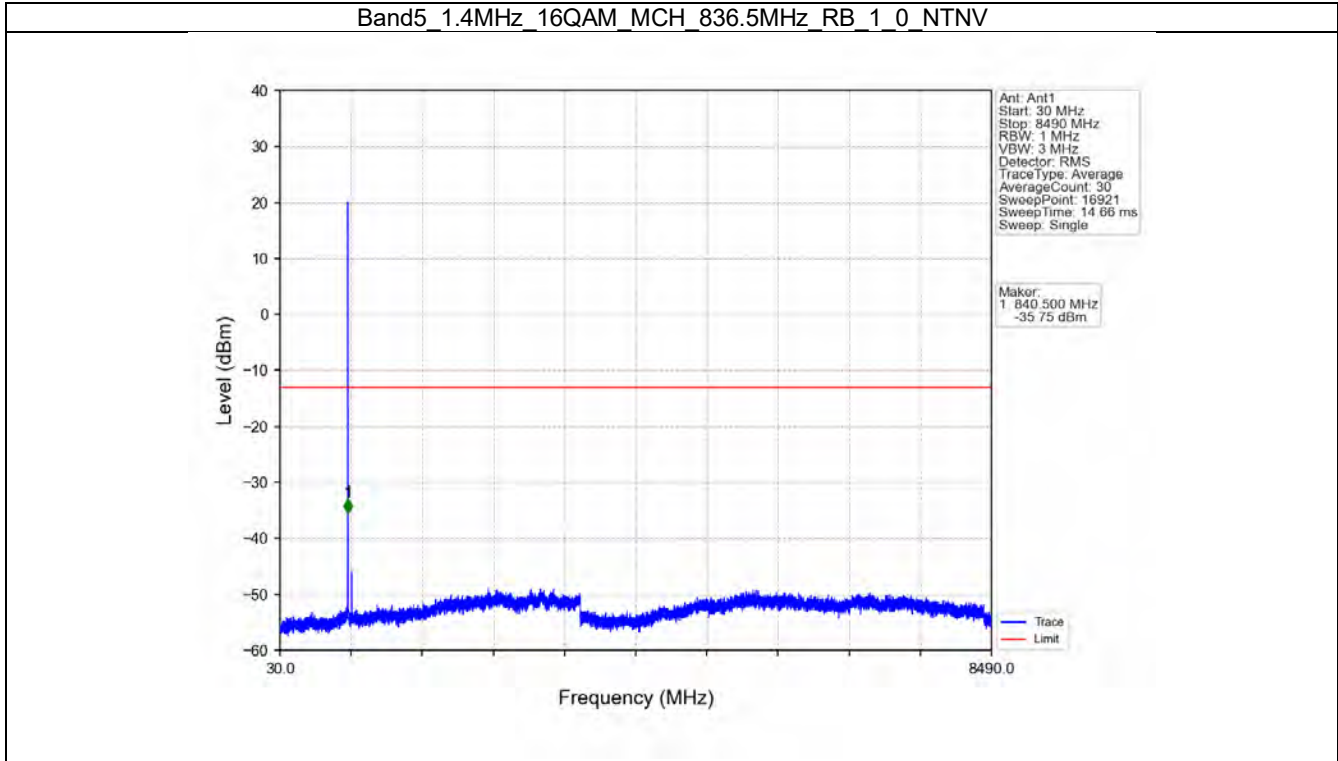


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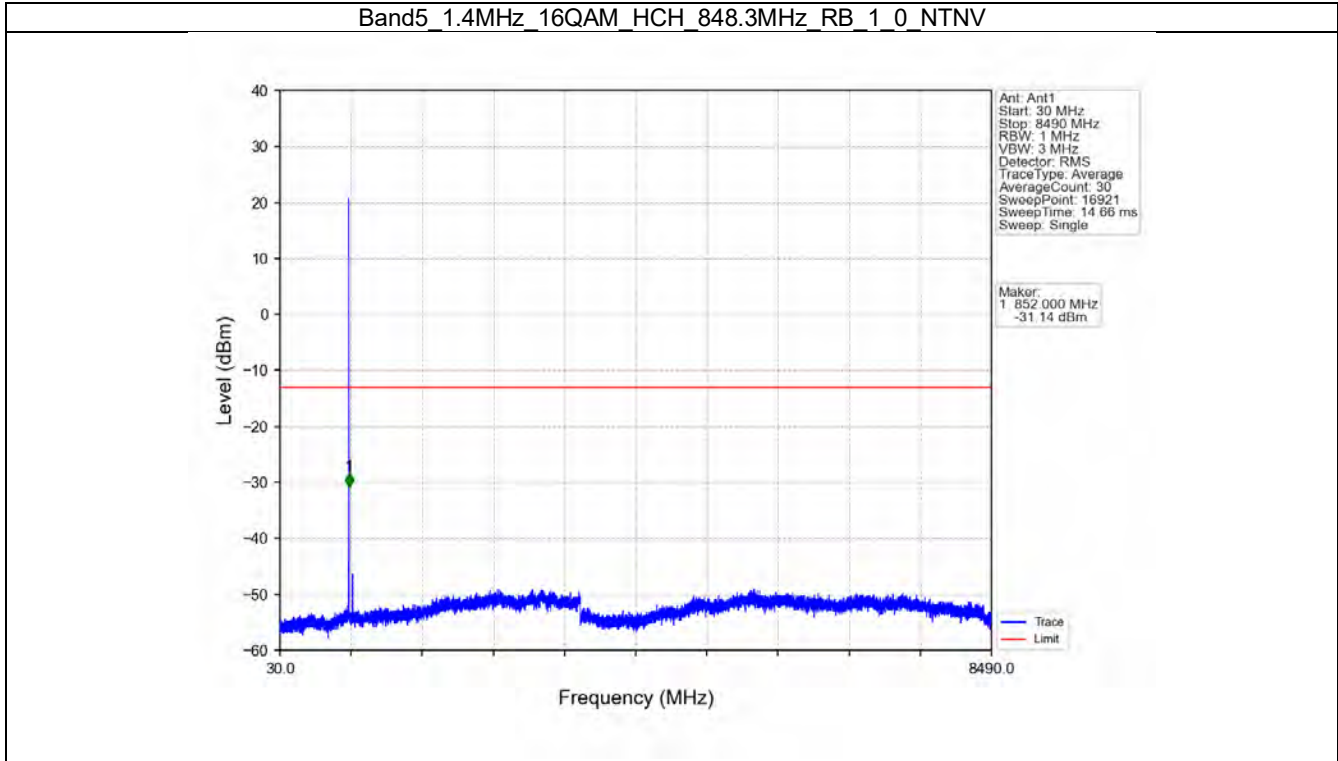


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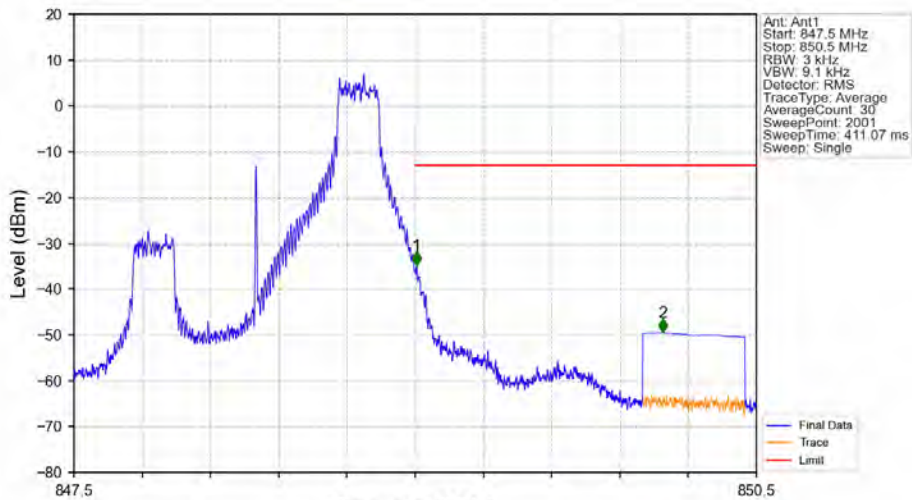
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.006	-34.85	-13	Pass
850	850.5	0.1	CHP	2	850.089	-49.56	-13	Pass



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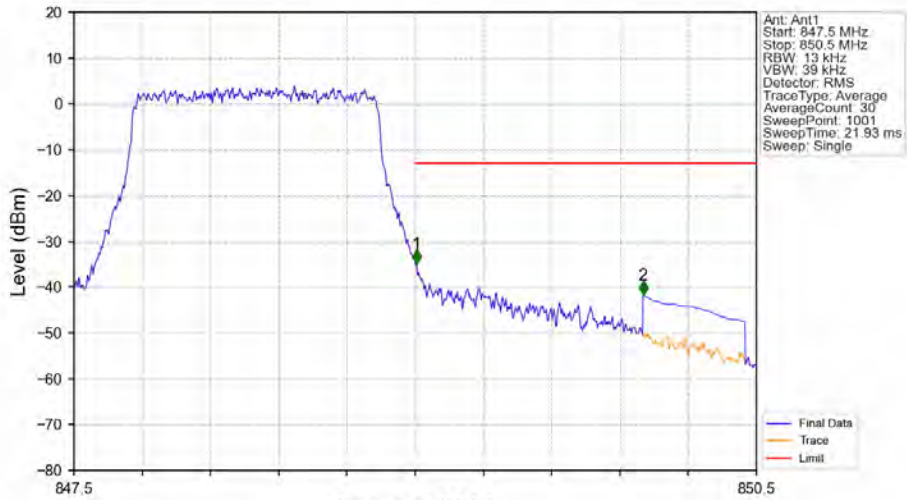
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.006	-34.81	-13	Pass
850	850.5	0.1	CHP	2	850.002	-41.70	-13	Pass



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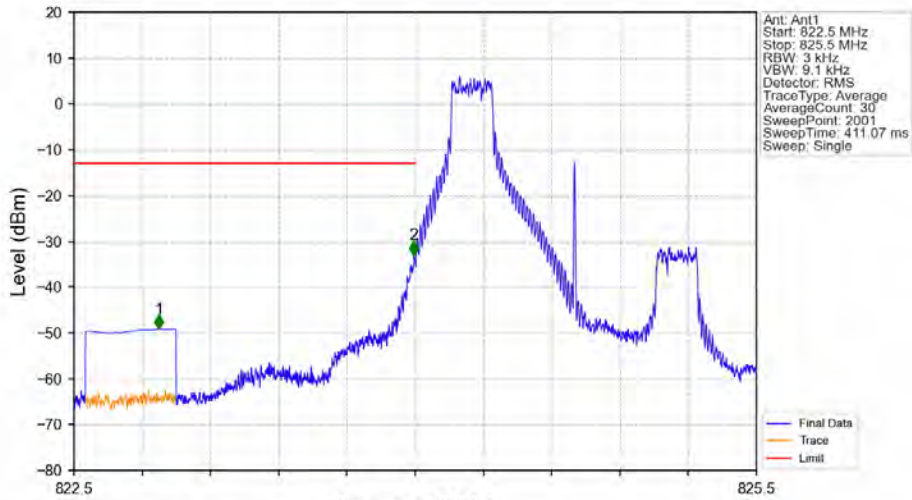
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.874	-49.19	-13	Pass
823	824	0.003	/	2	823.994	-33.01	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



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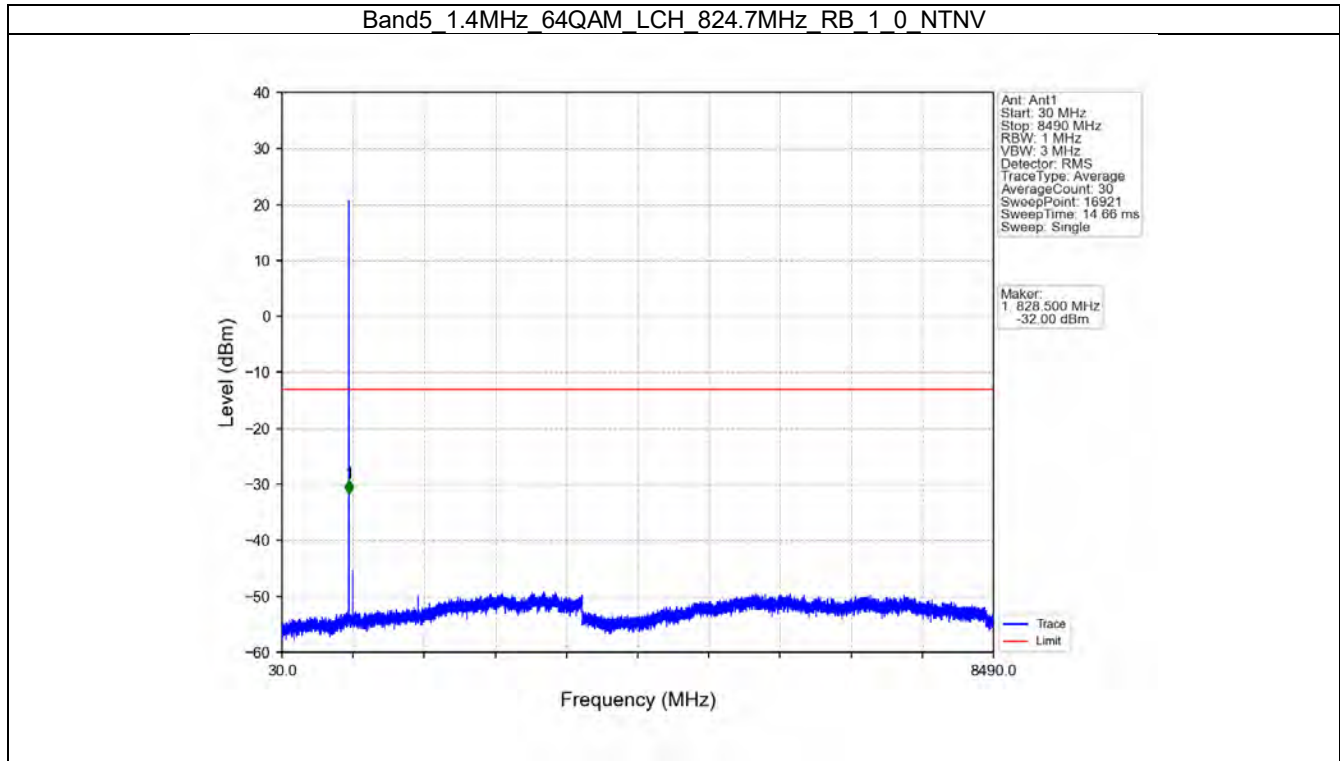


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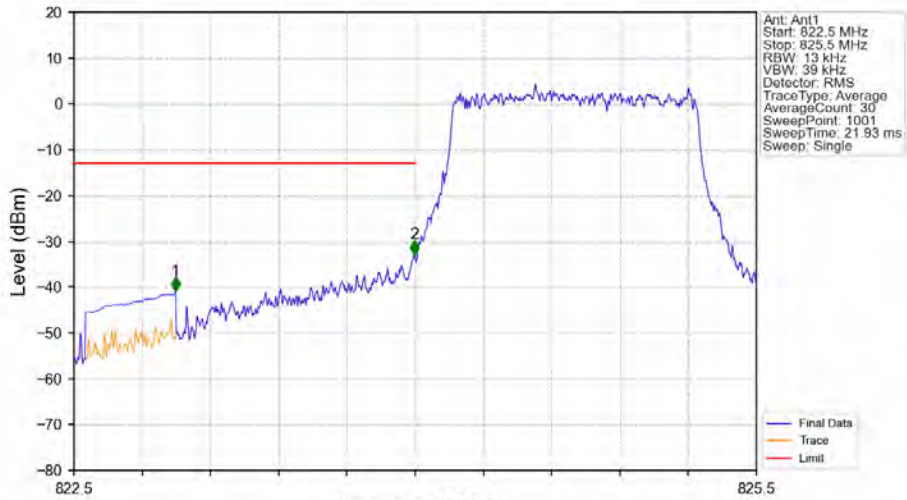
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-40.88	-13	Pass
823	824	0.013	/	2	823.997	-32.83	-13	Pass
824	825.5	0.013	/	/	/	/	/	/



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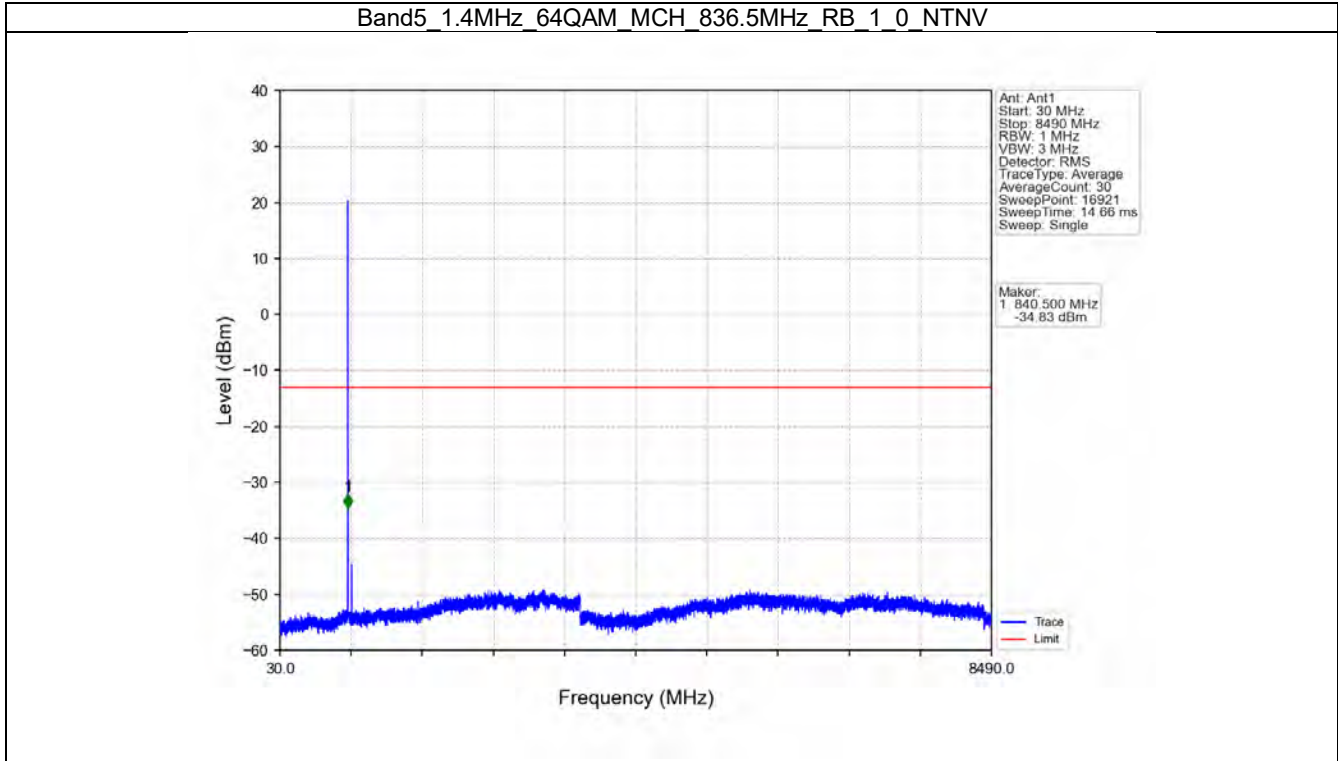


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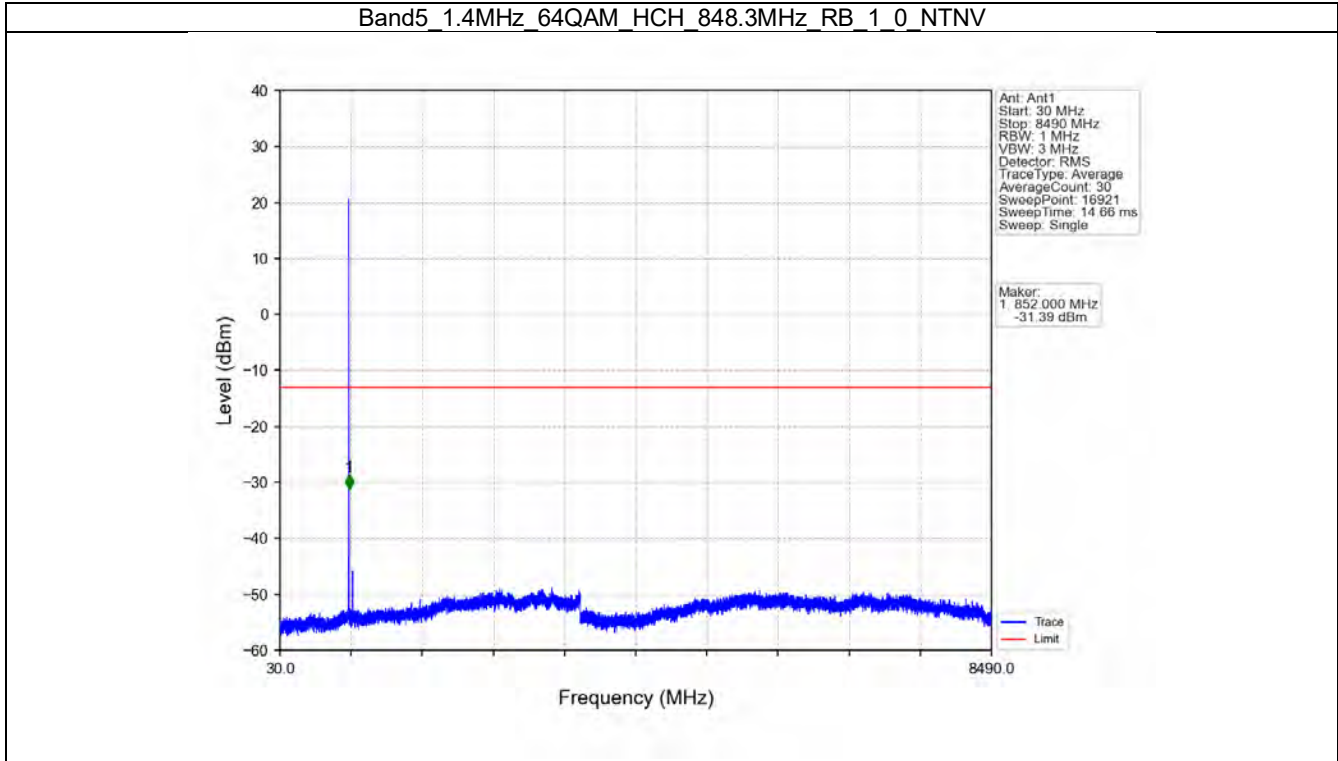


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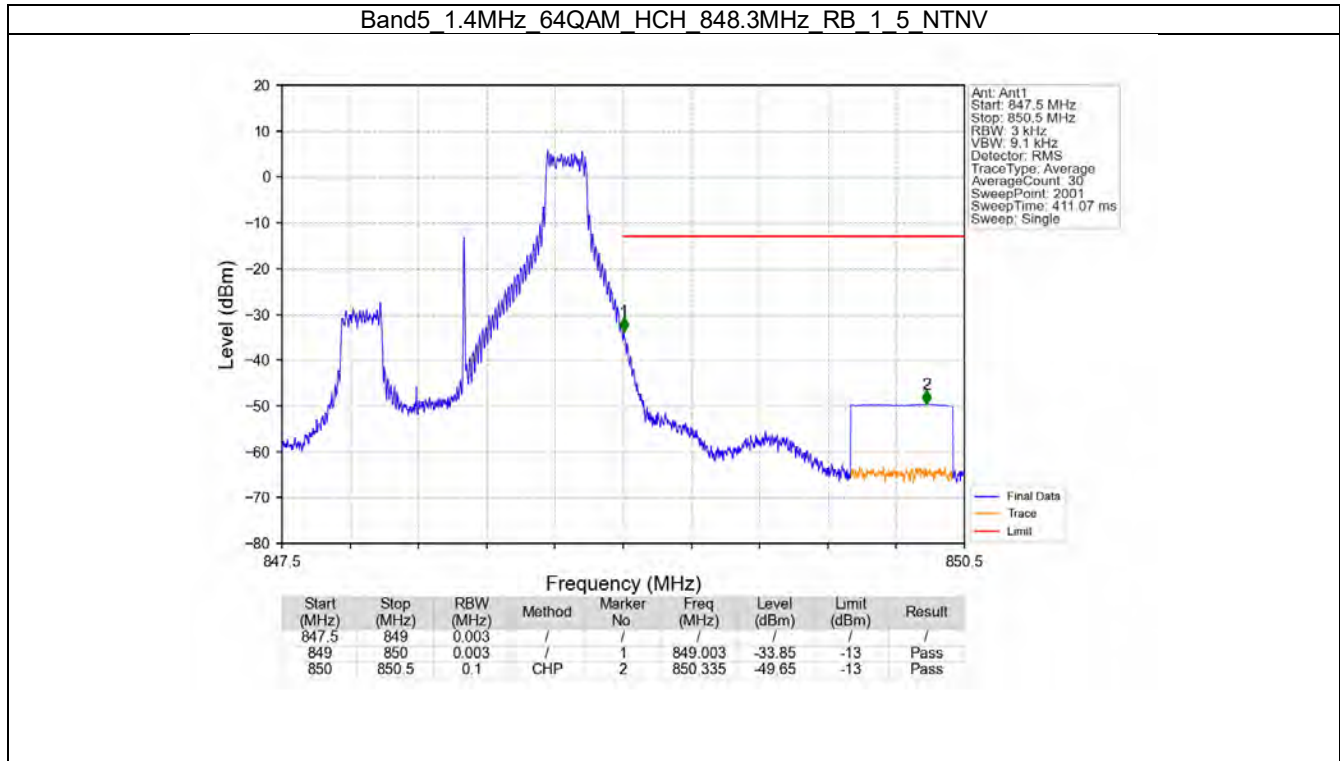


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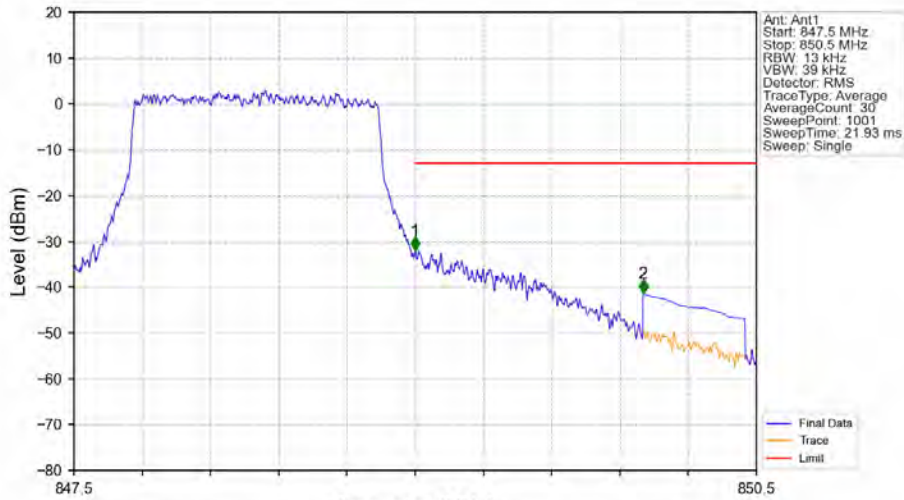
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.000	-32.09	-13	Pass
850	850.5	0.1	CHP	2	850.002	-41.36	-13	Pass



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5.2 B5_3MHz

5.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		847.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		847.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	
64QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		847.5	1	0	Refer To Test Graph	
				14	Refer To Test Graph	
			15	0	Refer To Test Graph	



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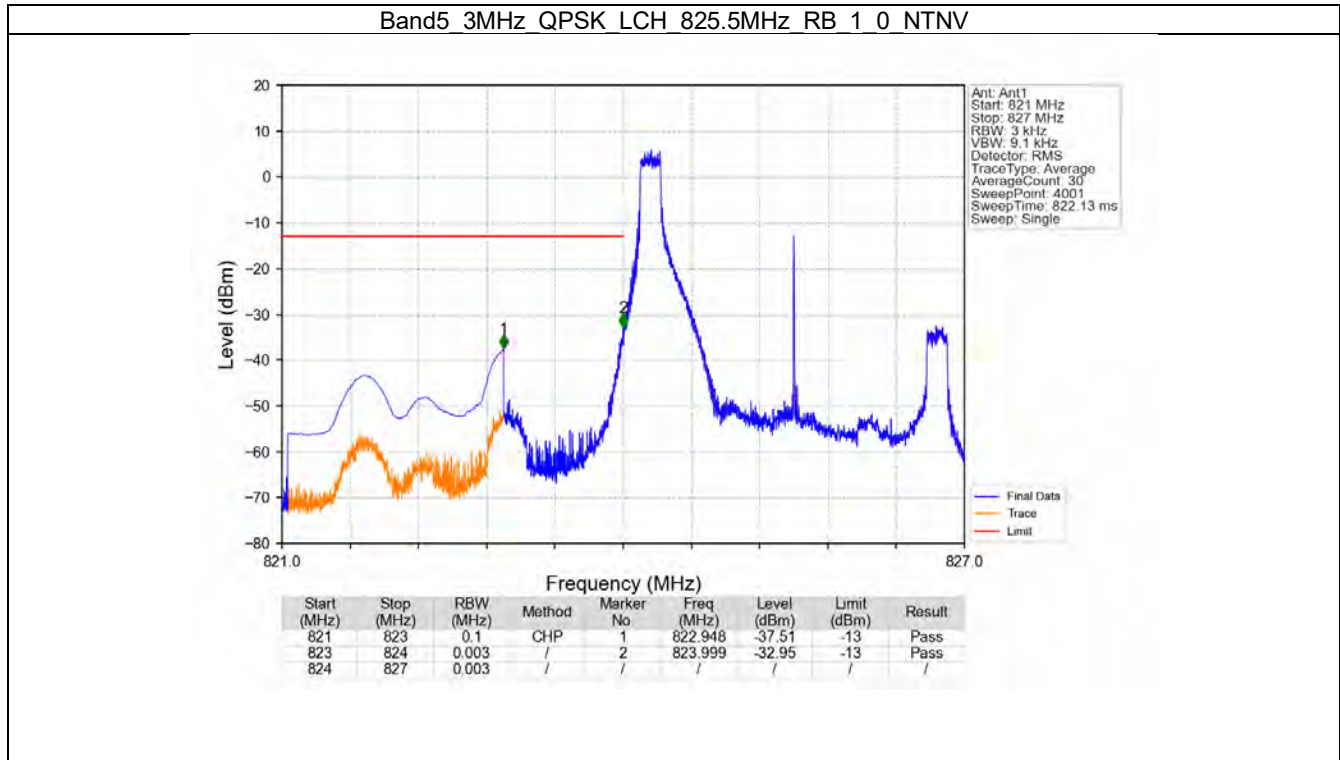
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5.2.2 Test Graph



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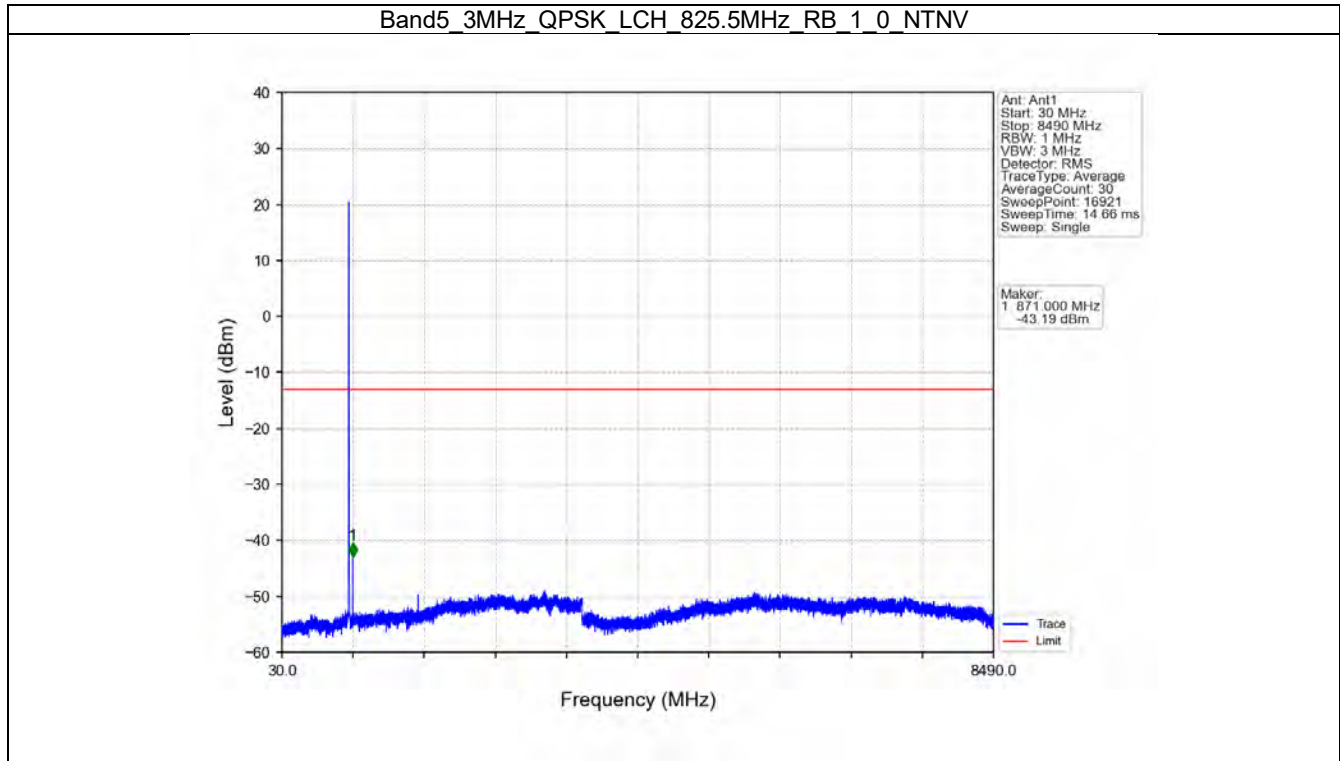


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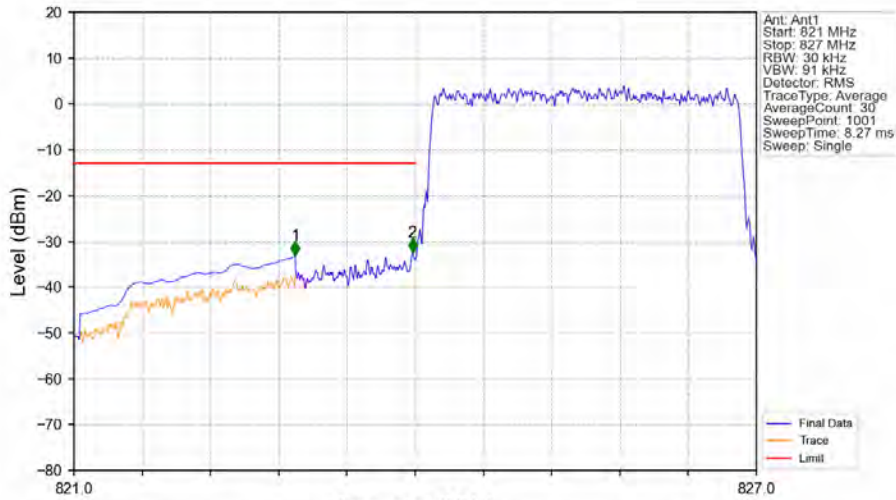
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-33.16	-13	Pass
823	824	0.03	/	2	823.976	-32.40	-13	Pass
824	827	0.03	/	/	/	/	/	/



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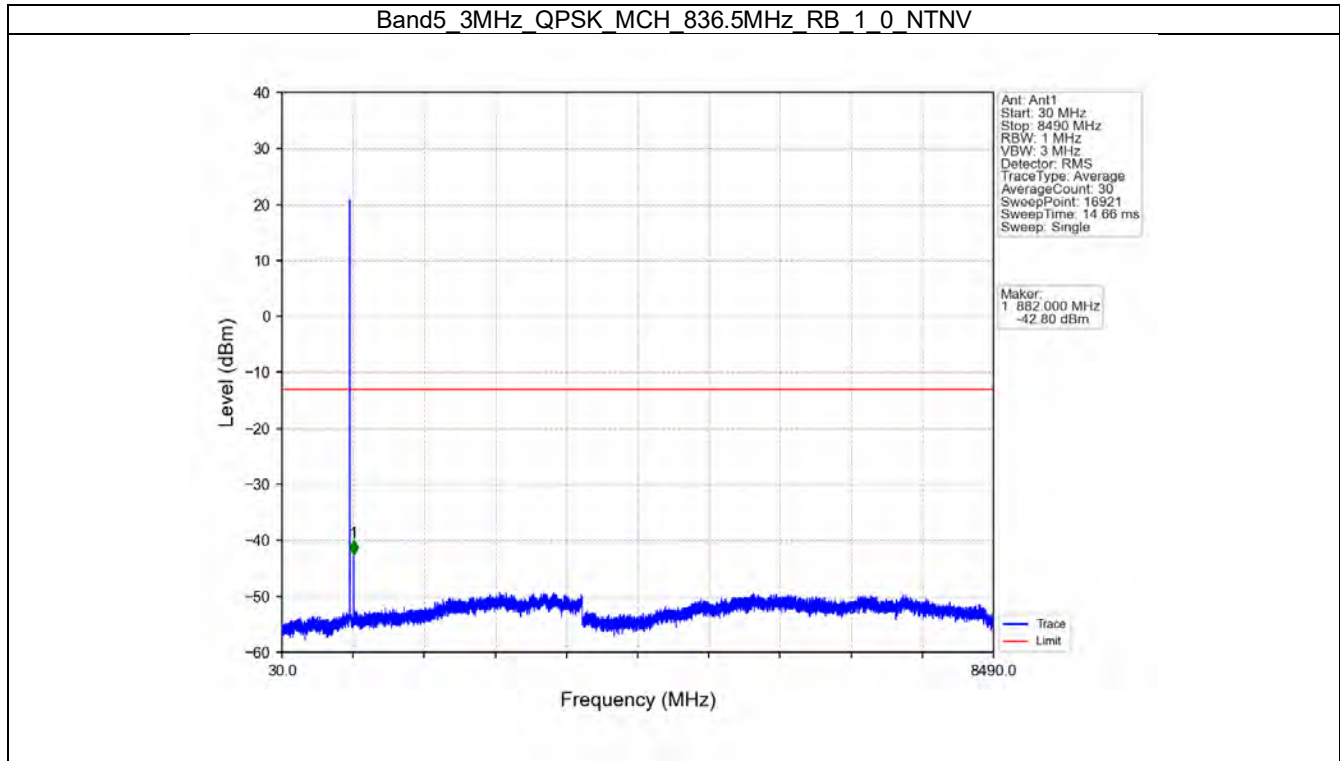


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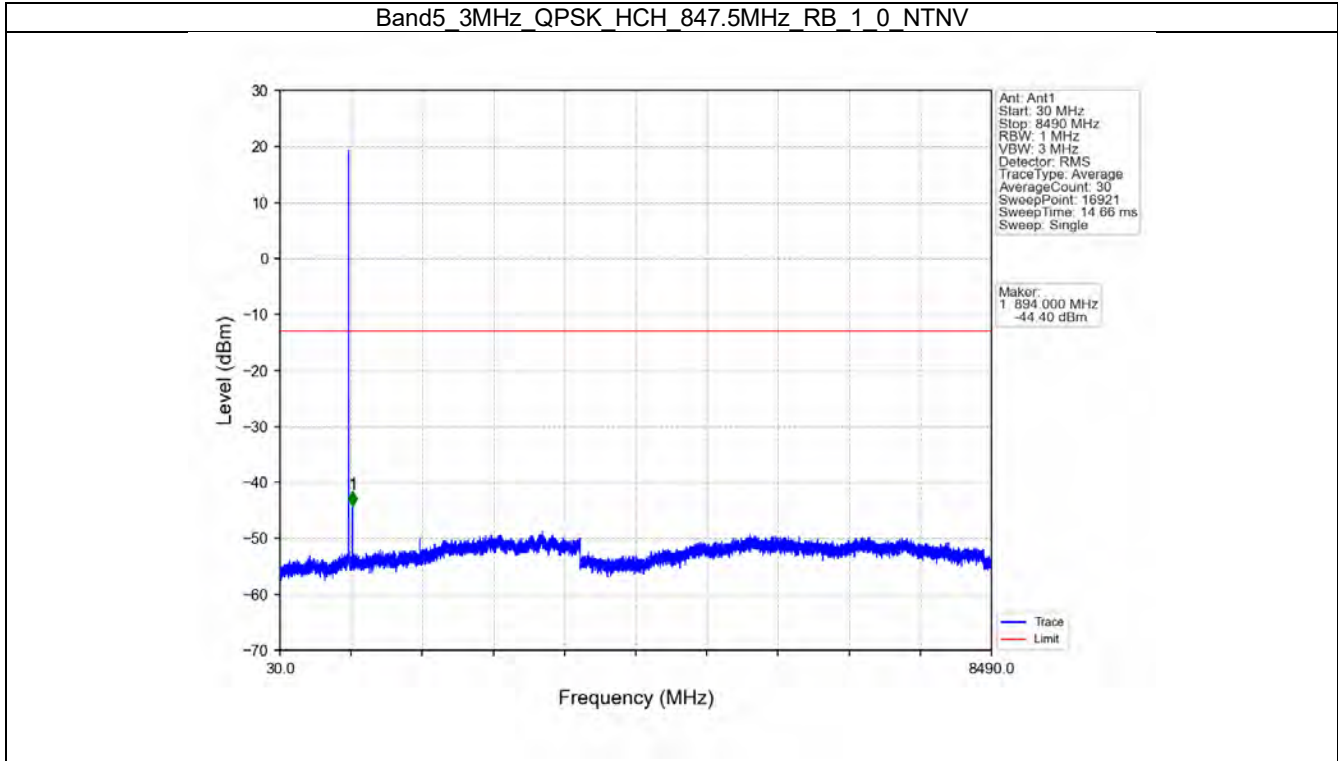


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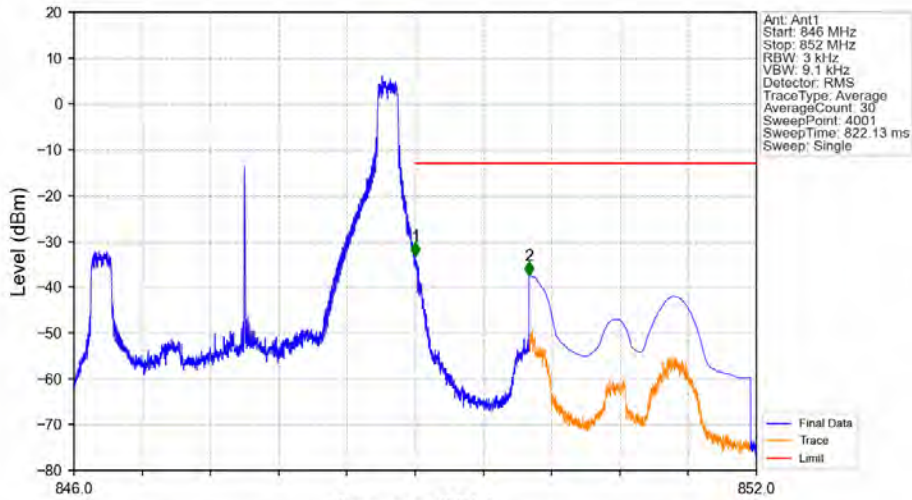
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-33.24	-13	Pass
850	852	0.1	CHP	2	850.004	-37.54	-13	Pass



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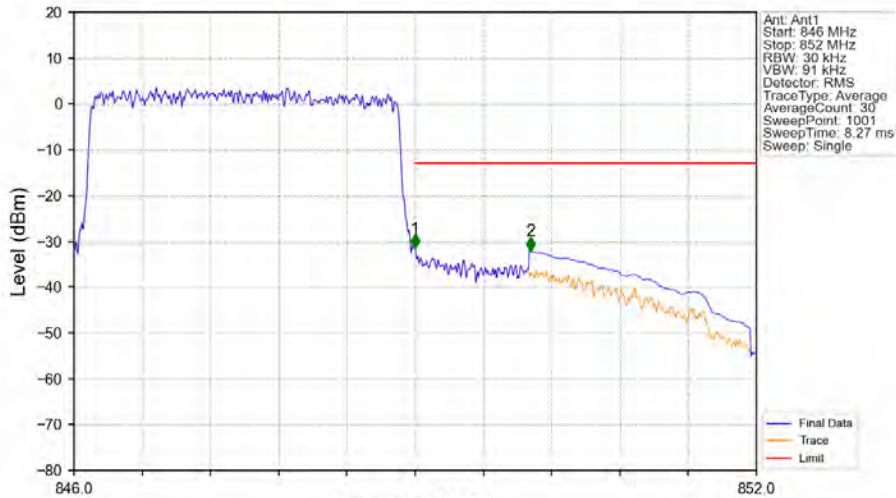
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.000	-31.48	-13	Pass
850	852	0.1	CHP	2	850.014	-32.11	-13	Pass



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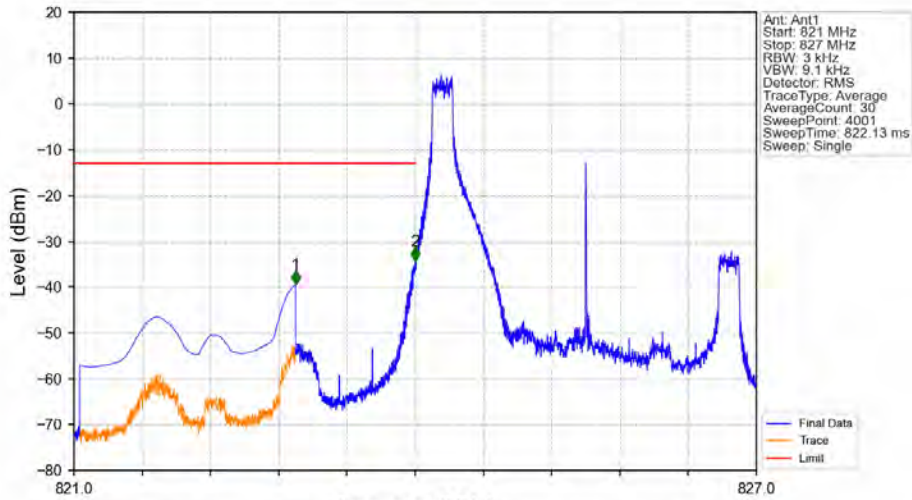
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-39.38	-13	Pass
823	824	0.003	/	2	824.000	-34.33	-13	Pass
824	827	0.003	/	/	/	/	/	/



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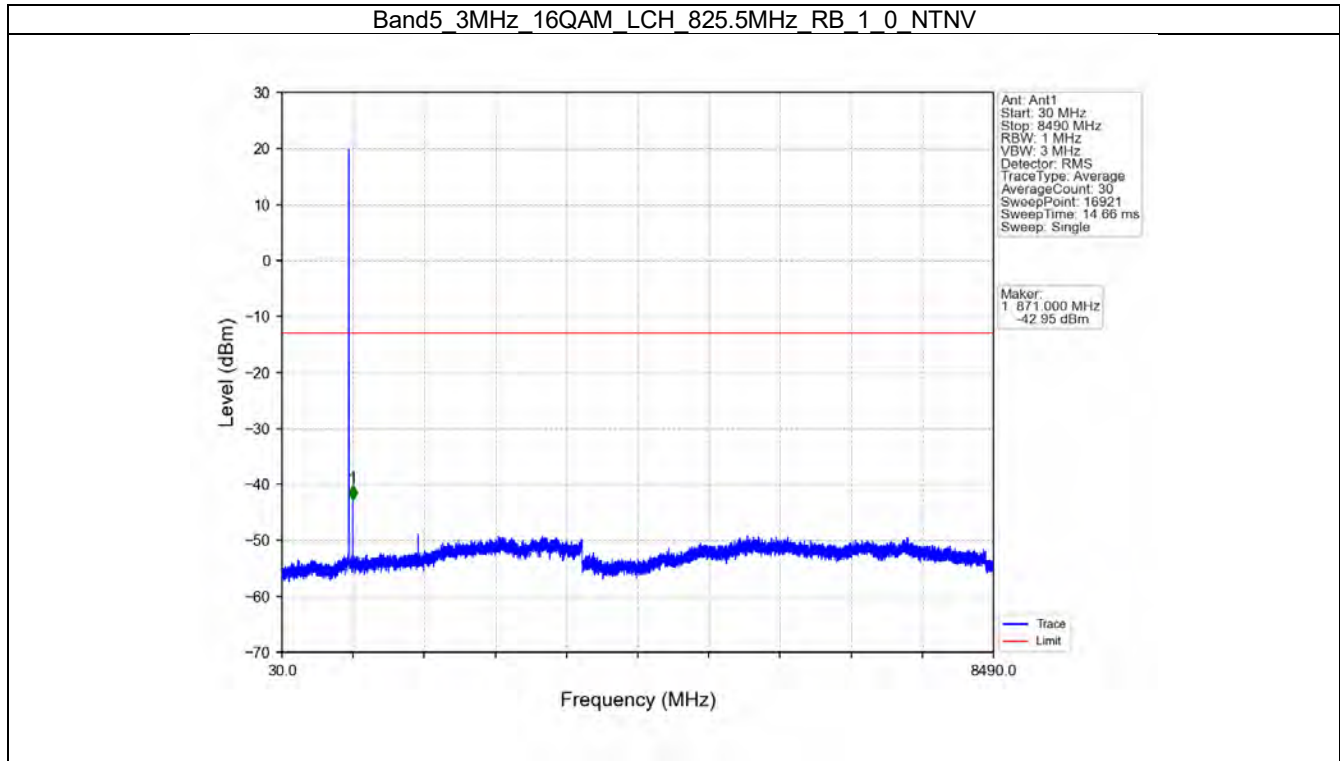


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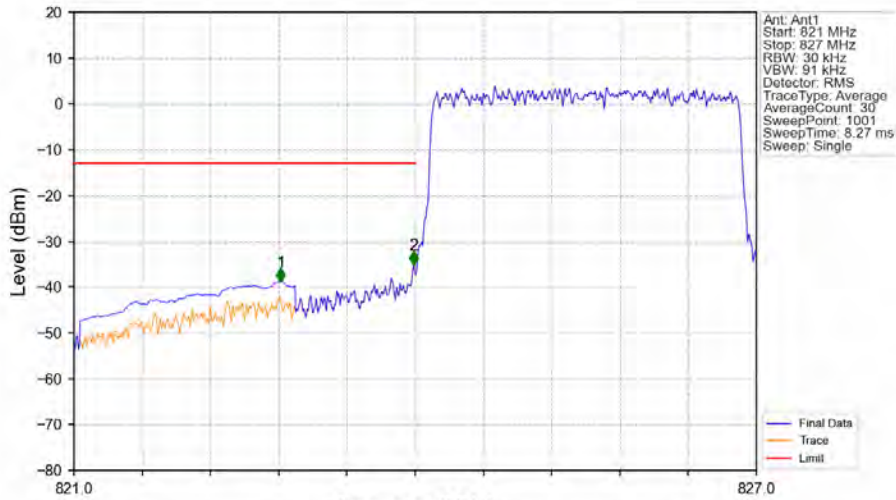
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.818	-38.88	-13	Pass
823	824	0.03	/	2	823.988	-35.20	-13	Pass
824	827	0.03	/	/	/	/	/	/



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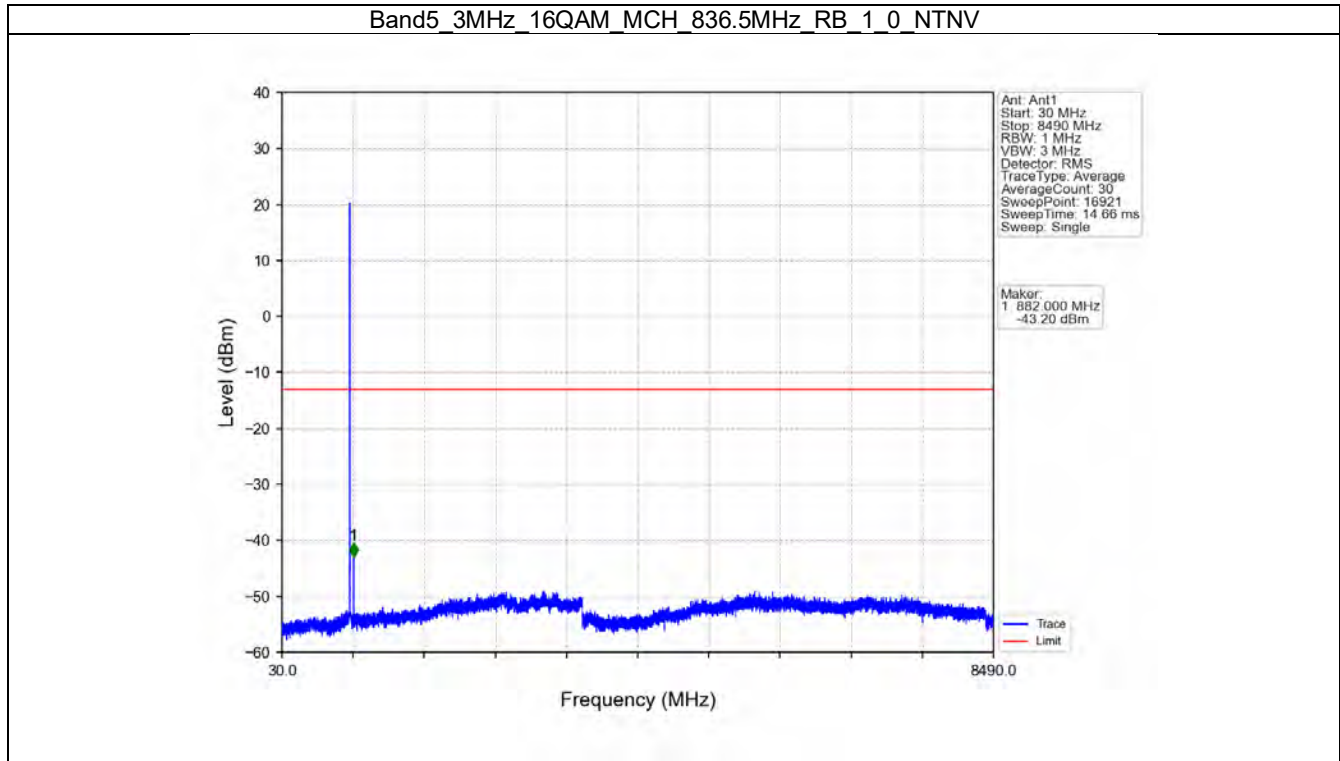


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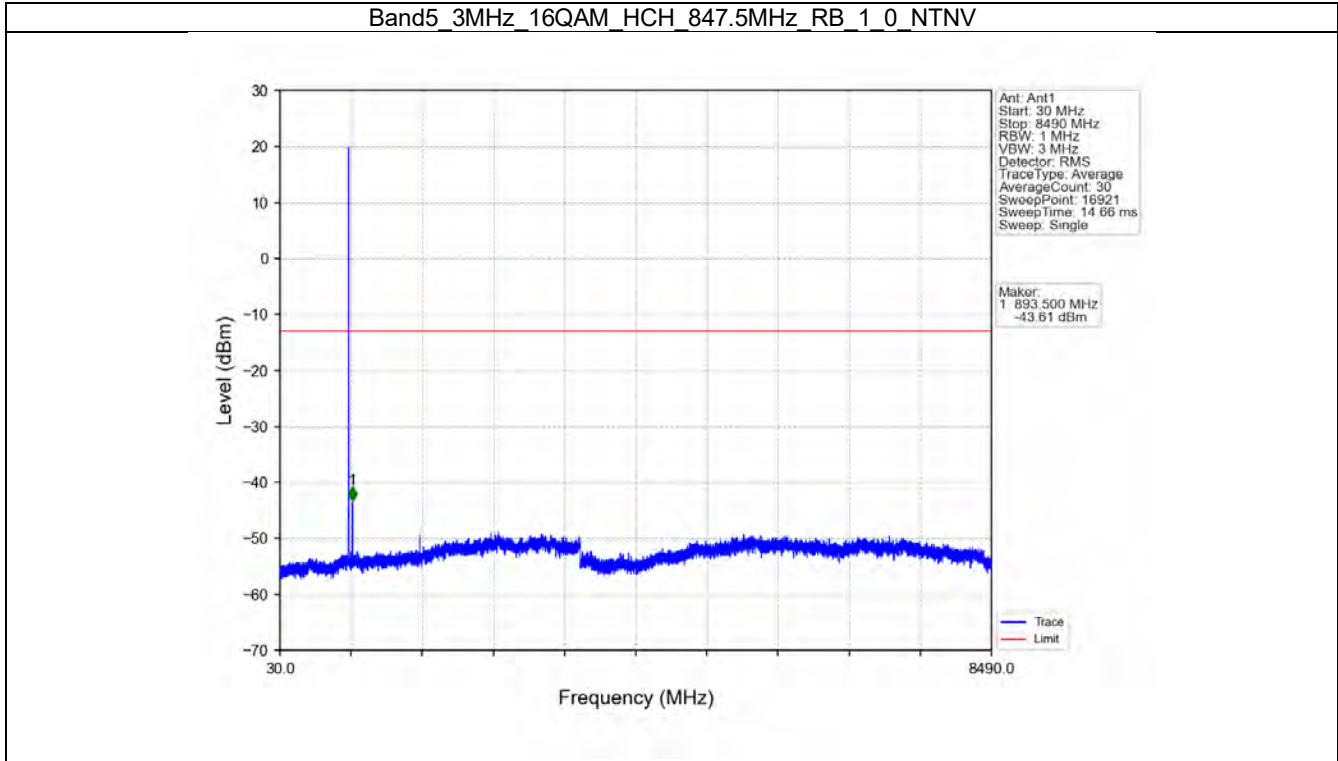


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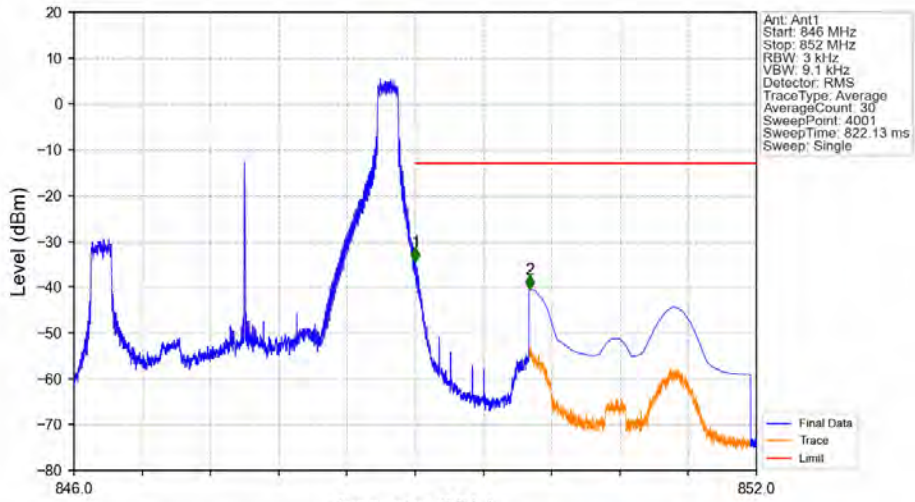
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-34.53	-13	Pass
850	852	0.1	CHP	2	850.008	-40.46	-13	Pass



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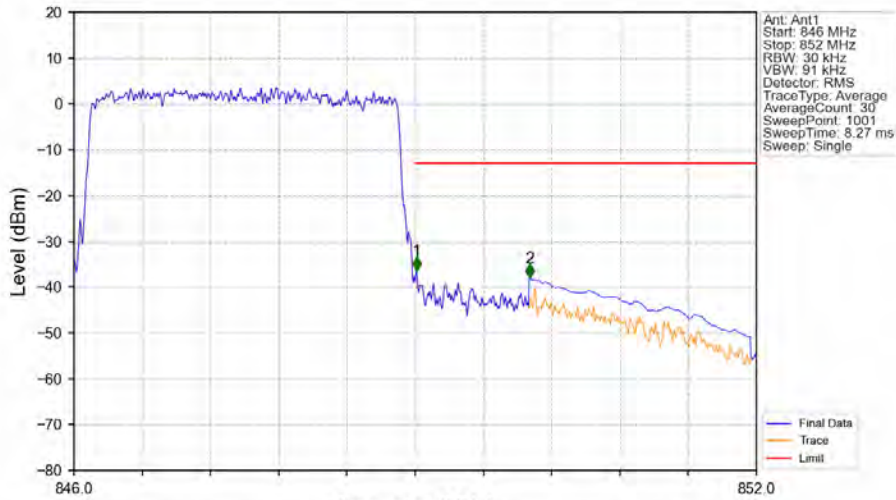
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.012	-36.51	-13	Pass
850	852	0.1	CHP	2	850.008	-38.00	-13	Pass



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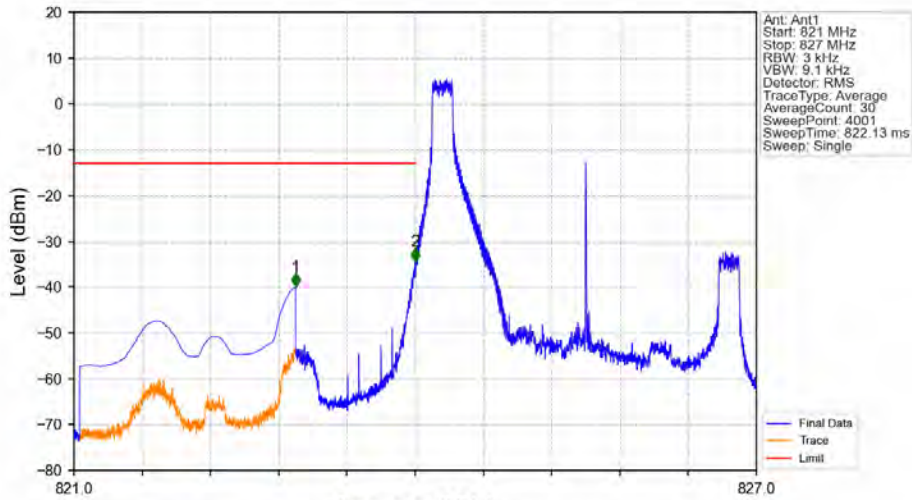
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-39.96	-13	Pass
823	824	0.003	/	2	823.999	-34.41	-13	Pass
824	827	0.003	/	/	/	/	/	/



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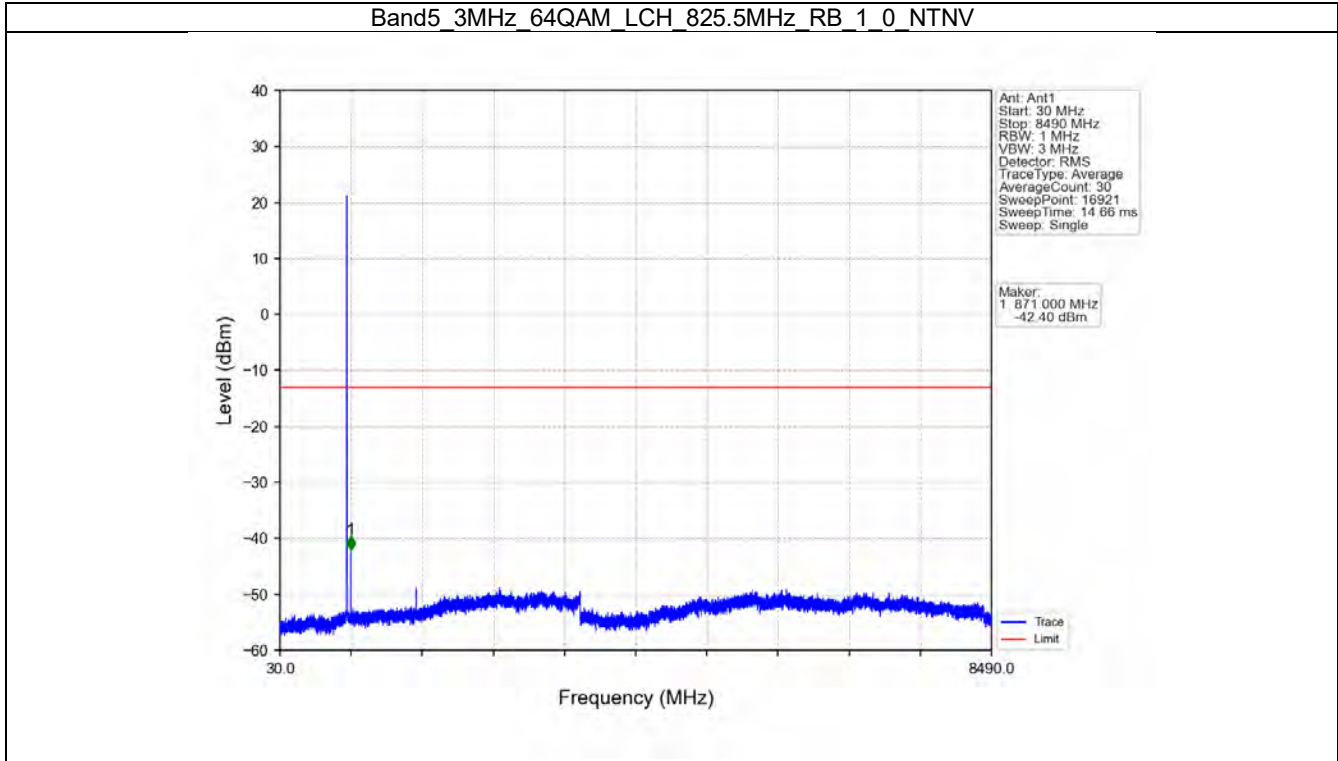


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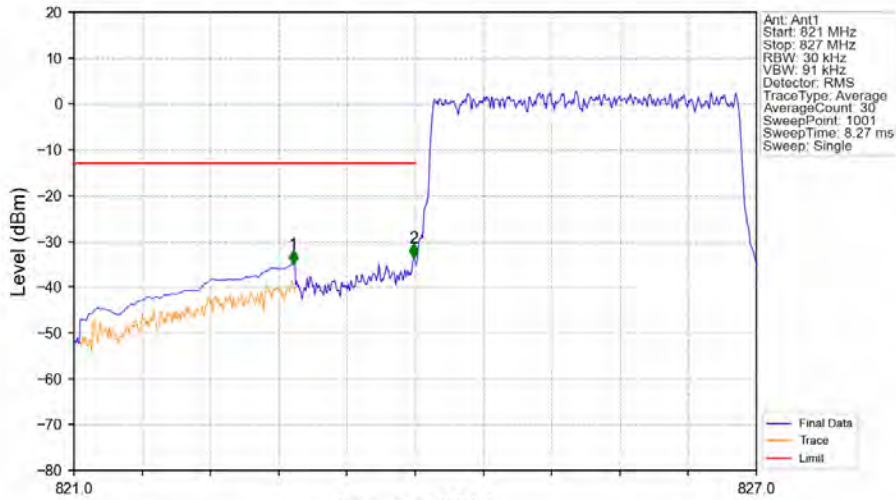
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.926	-34.97	-13	Pass
823	824	0.03	/	2	823.988	-33.70	-13	Pass
824	827	0.03	/	/	/	/	/	/



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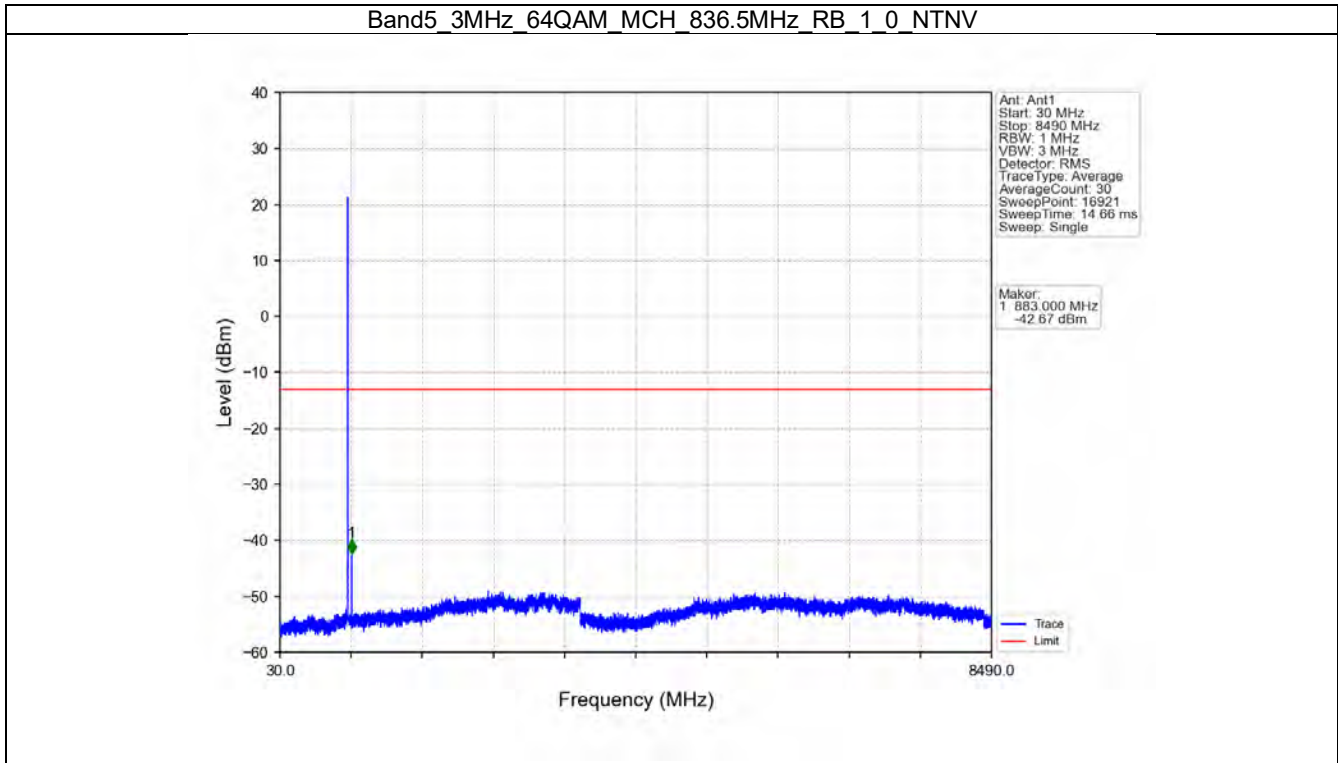


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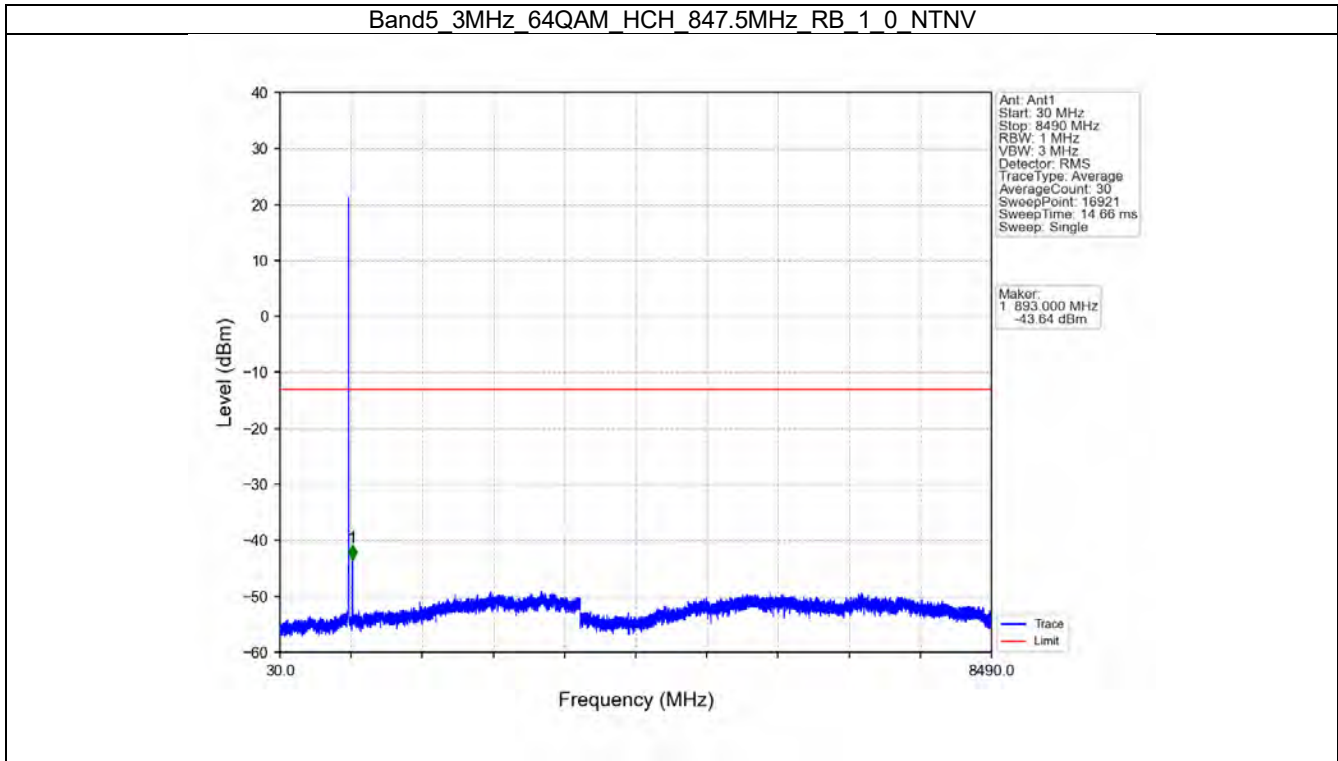


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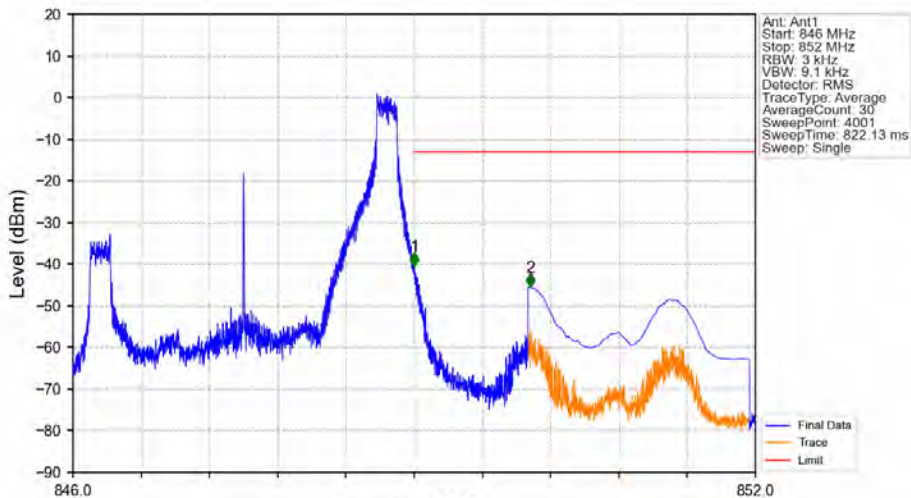
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-40.59	-13	Pass
850	852	0.1	CHP	2	850.020	-45.53	-13	Pass



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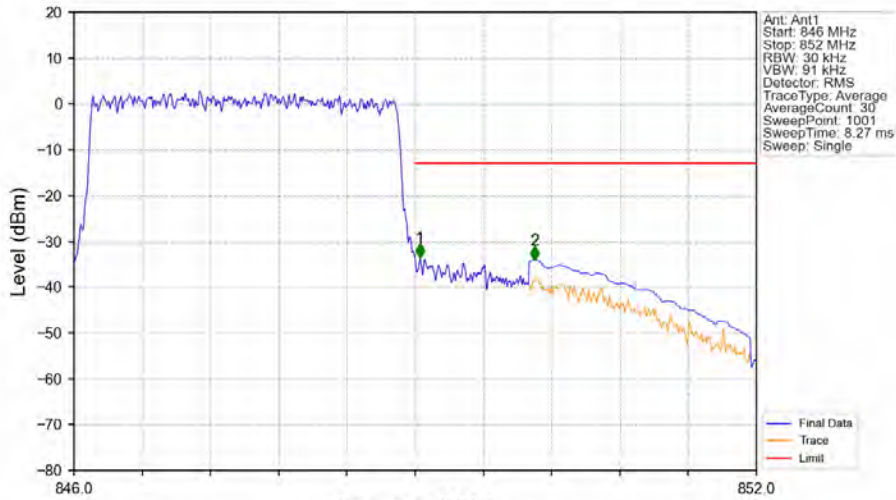
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.042	-33.67	-13	Pass
850	852	0.1	CHP	2	850.050	-34.13	-13	Pass



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5.3 B5_5MHz

5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	846.5	1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	826.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	846.5	1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	826.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	846.5	1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	



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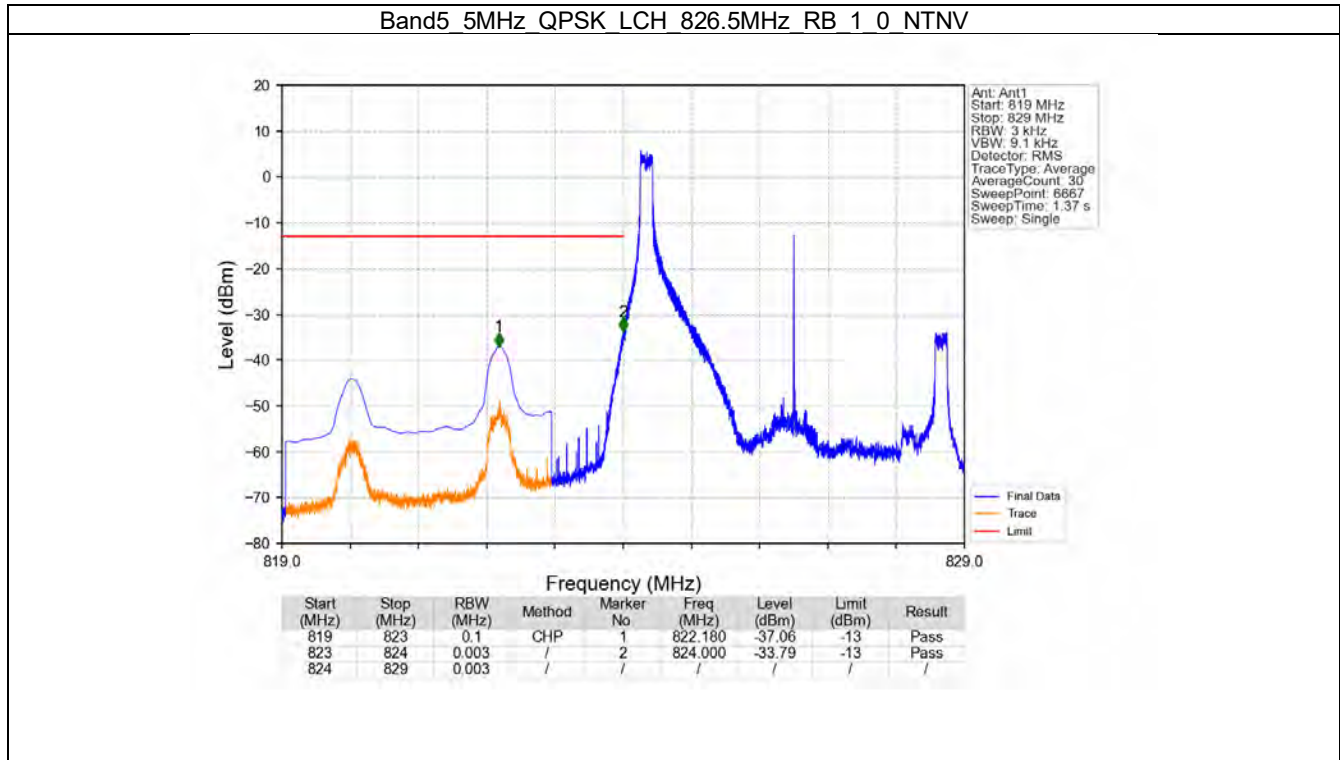
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5.3.2 Test Graph



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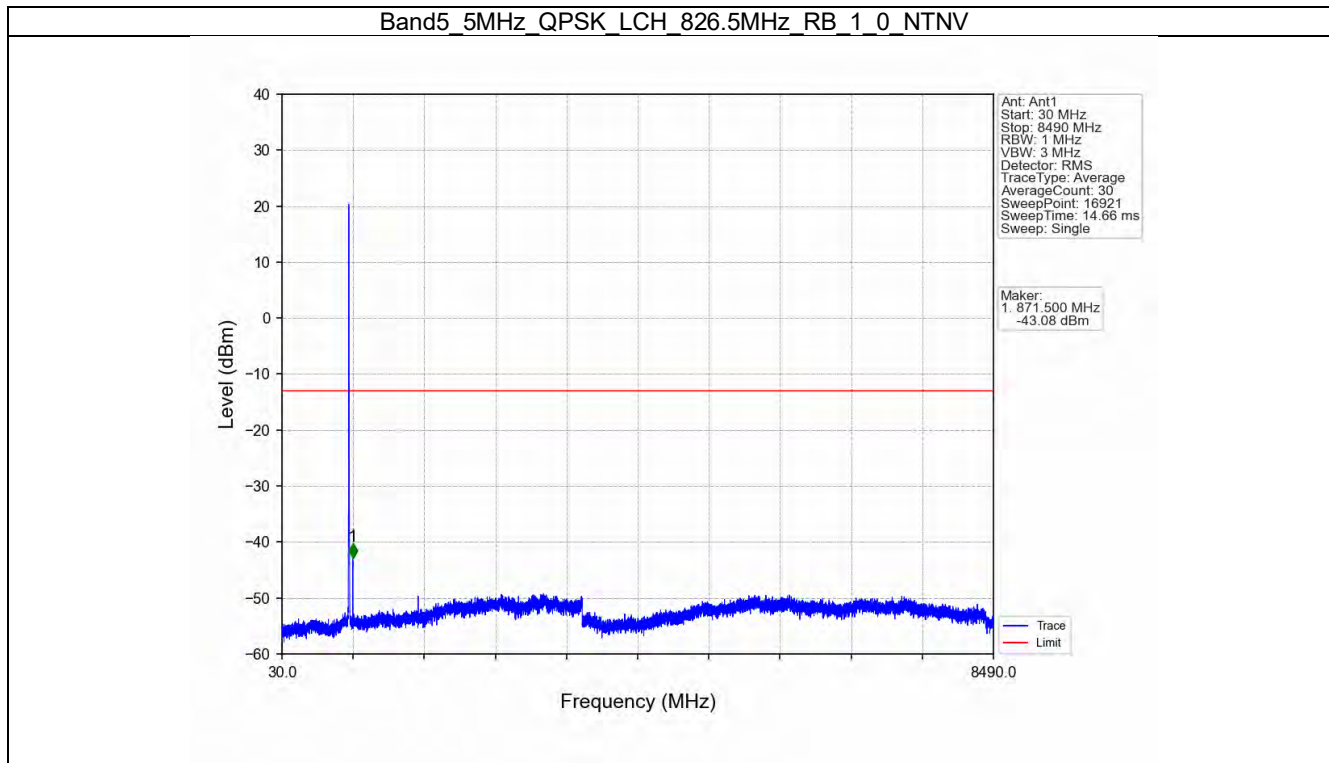
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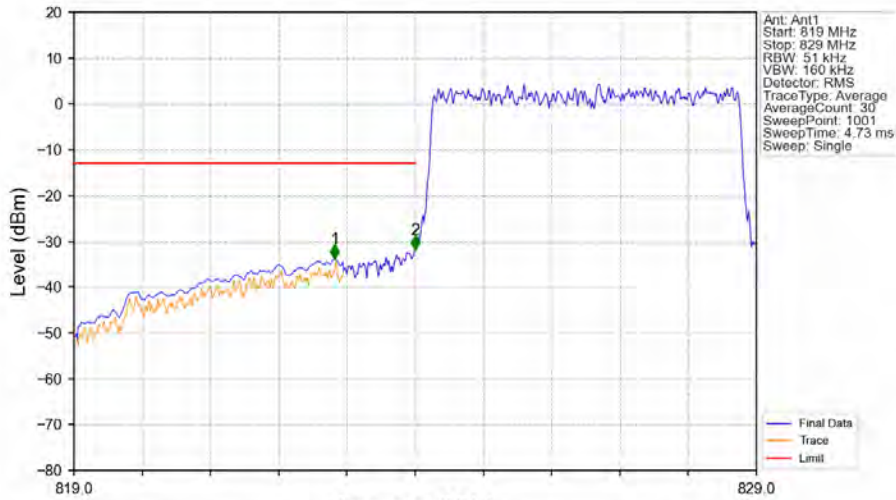
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.820	-33.77	-13	Pass
823	824	0.051	/	2	824.000	-31.91	-13	Pass
824	829	0.051	/	/	/	/	/	/



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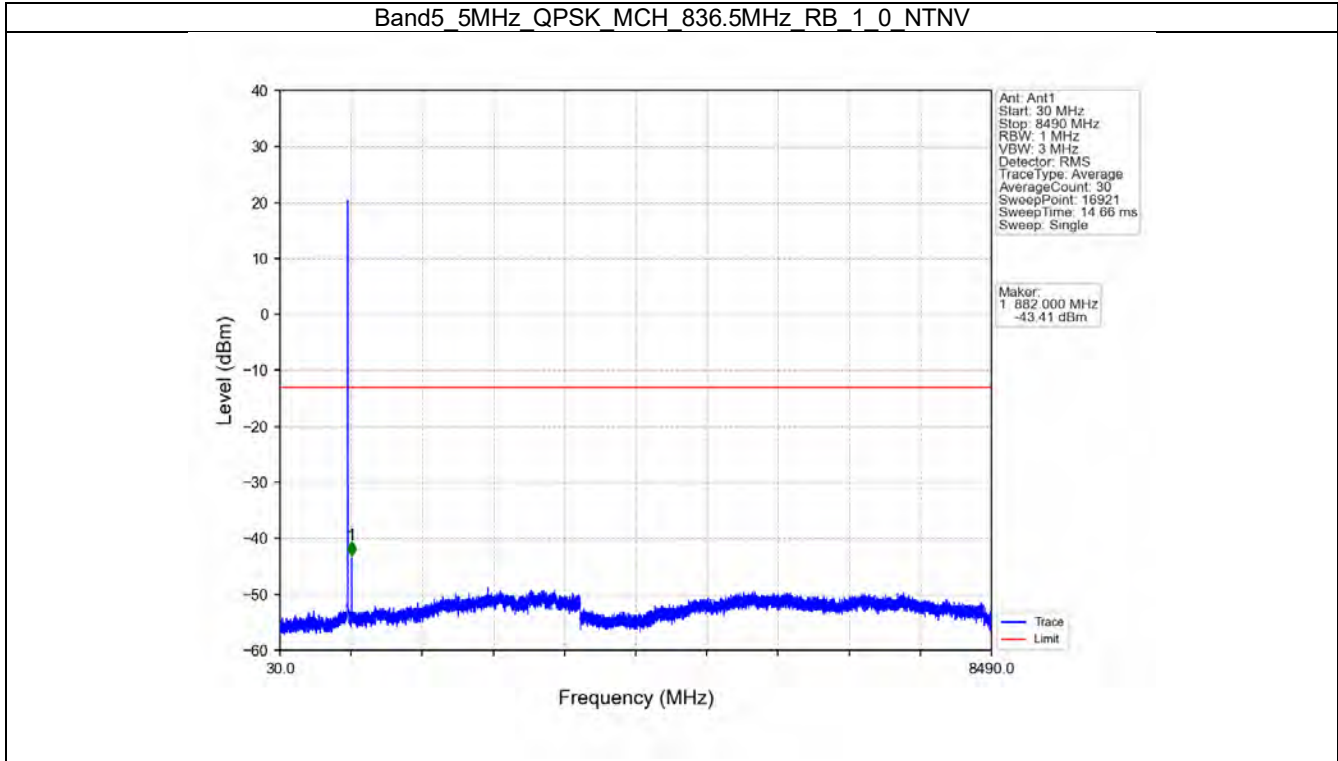


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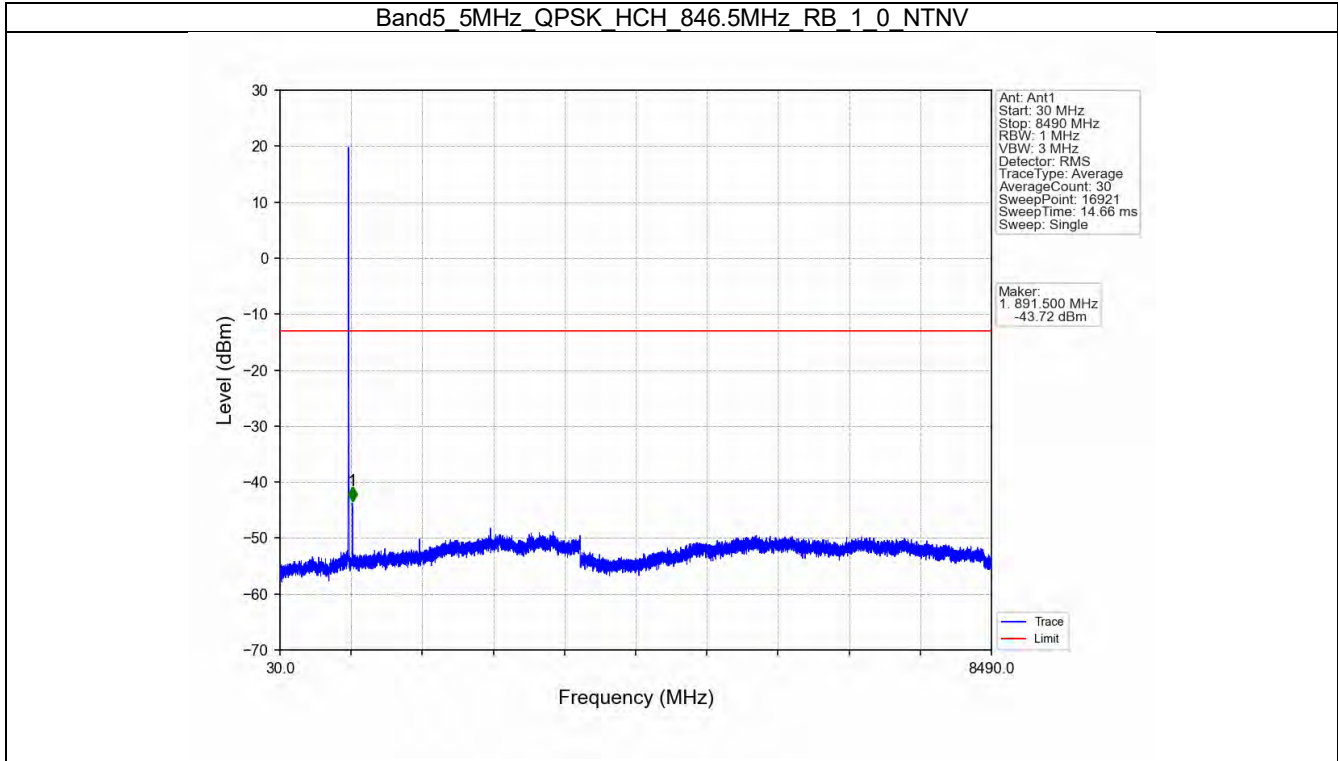


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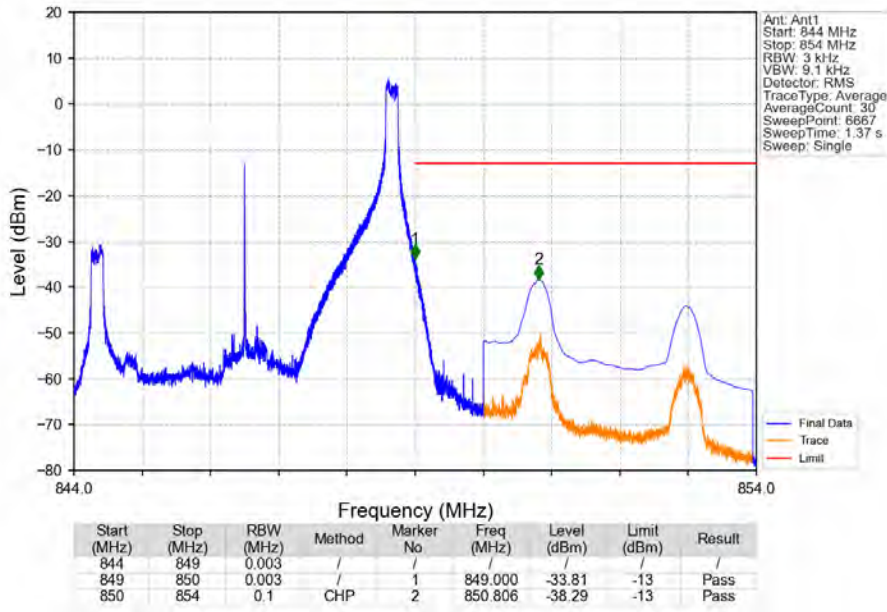
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



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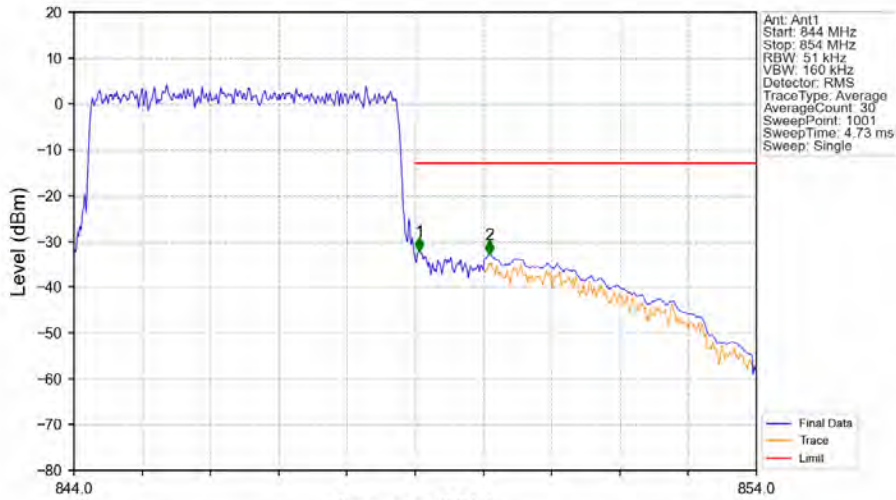
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.060	-32.25	-13	Pass
850	854	0.1	CHP	2	850.090	-32.87	-13	Pass



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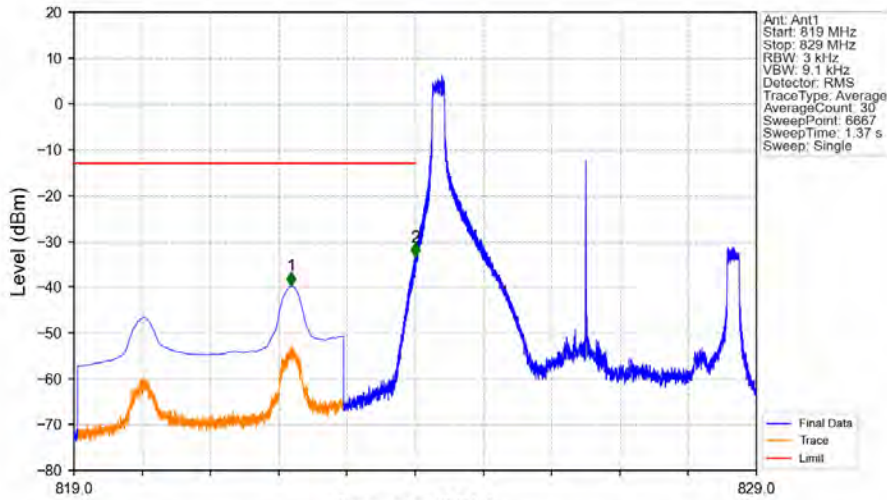
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.185	-39.73	-13	Pass
823	824	0.003	/	2	824.000	-33.42	-13	Pass
824	829	0.003	/	/	/	/	/	/



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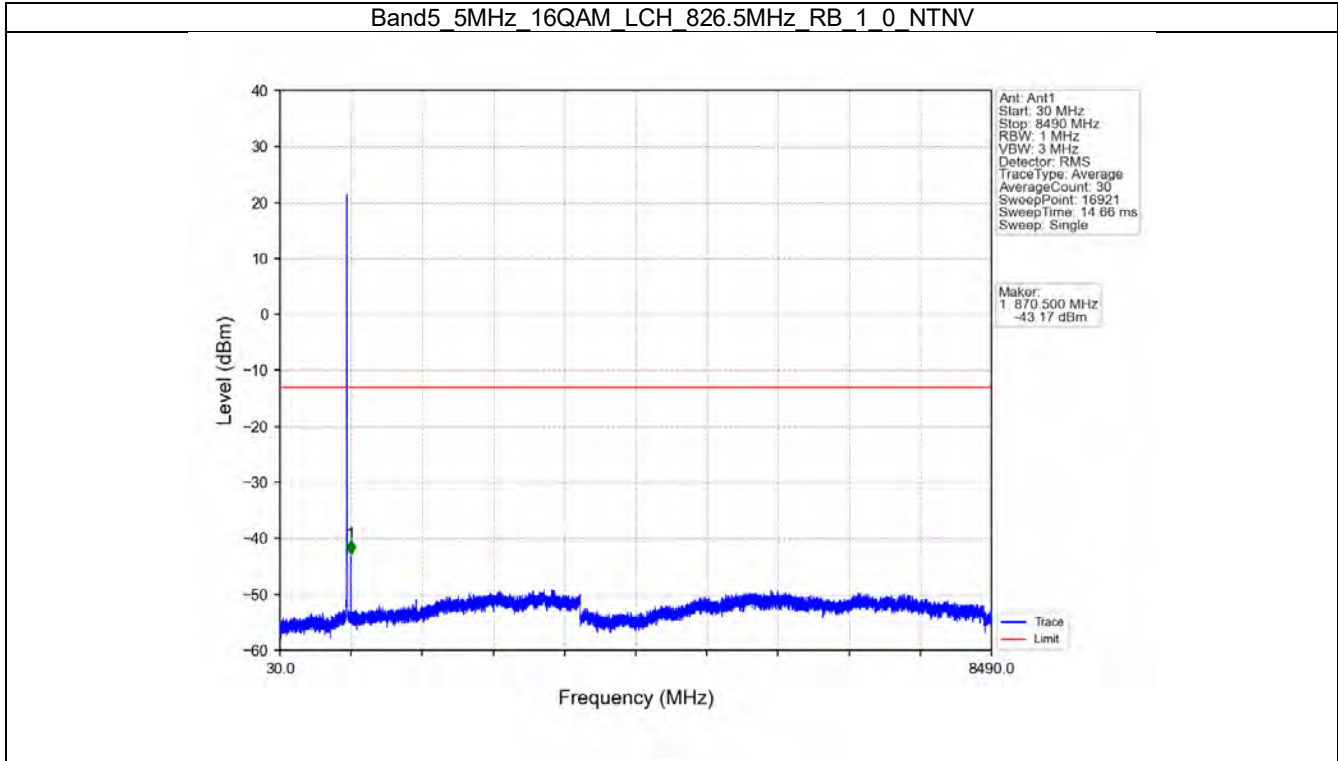


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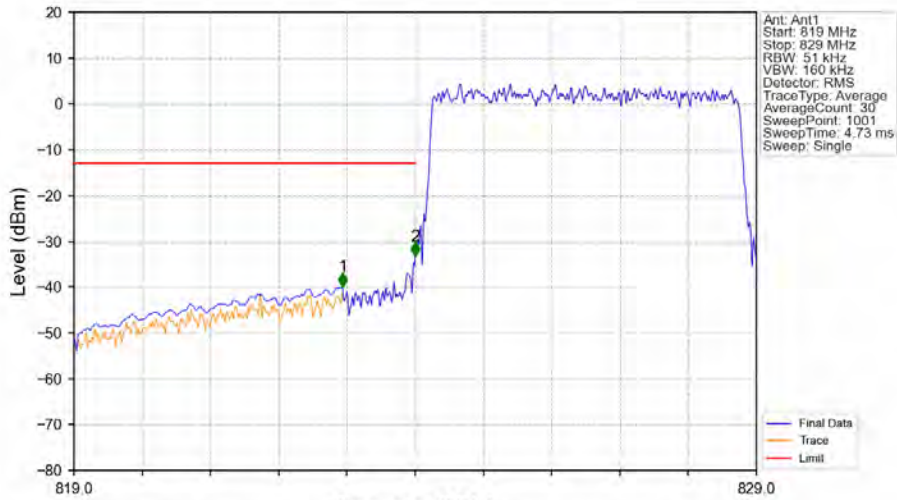
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-39.89	-13	Pass
823	824	0.051	/	2	824.000	-33.21	-13	Pass
824	829	0.051	/	/	/	/	/	/



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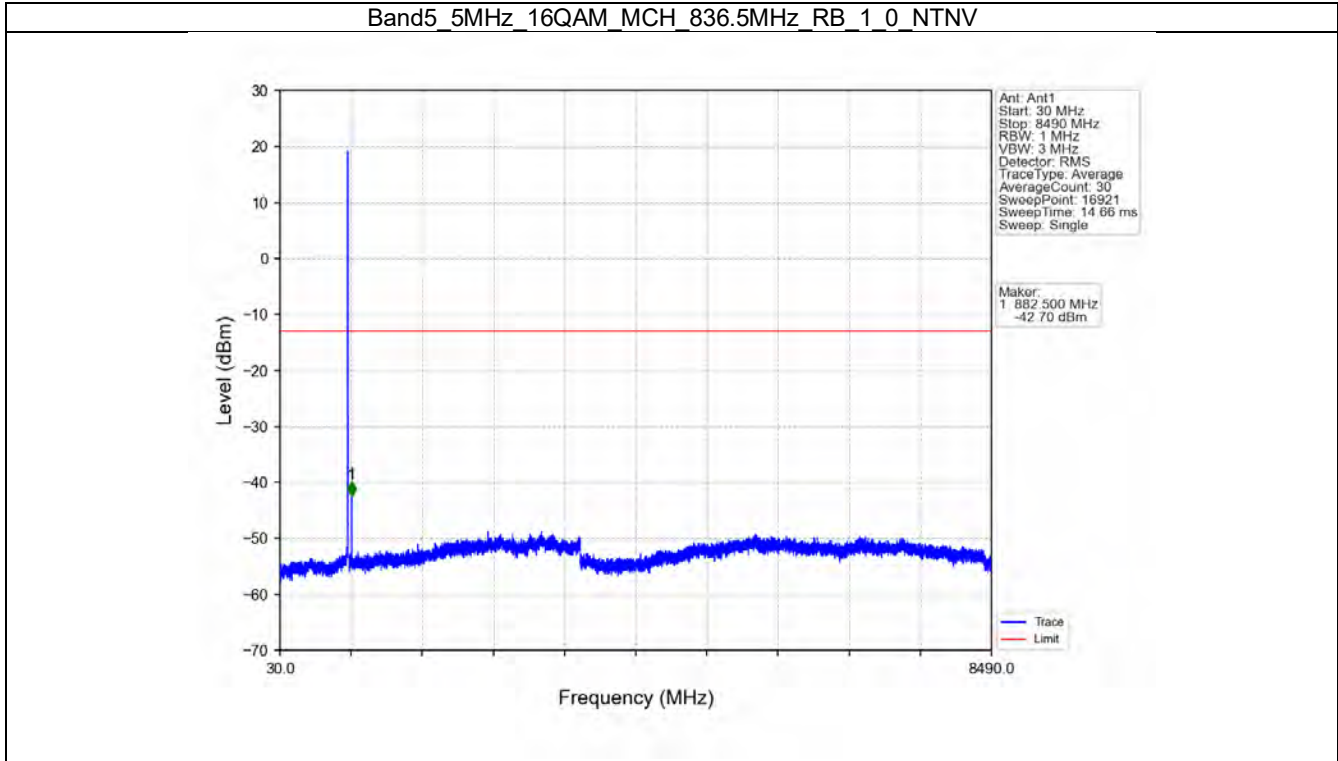


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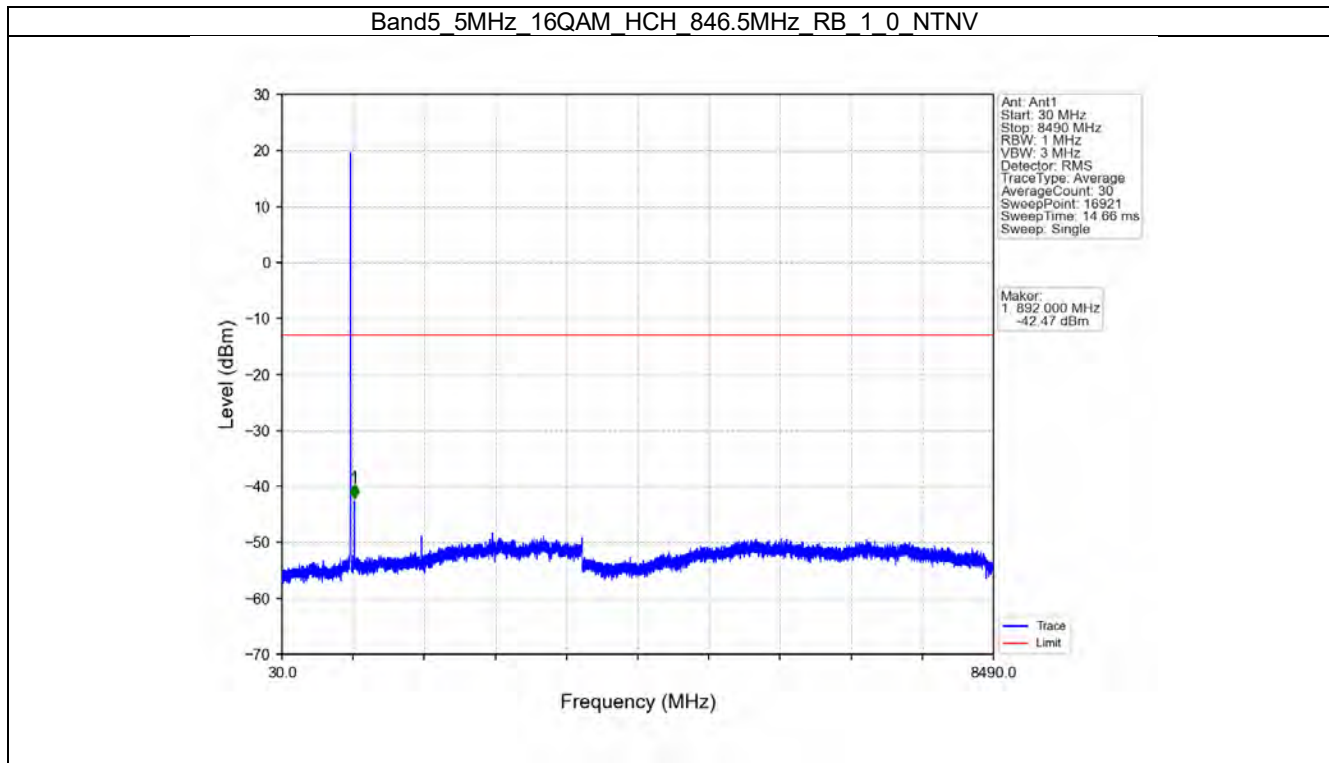
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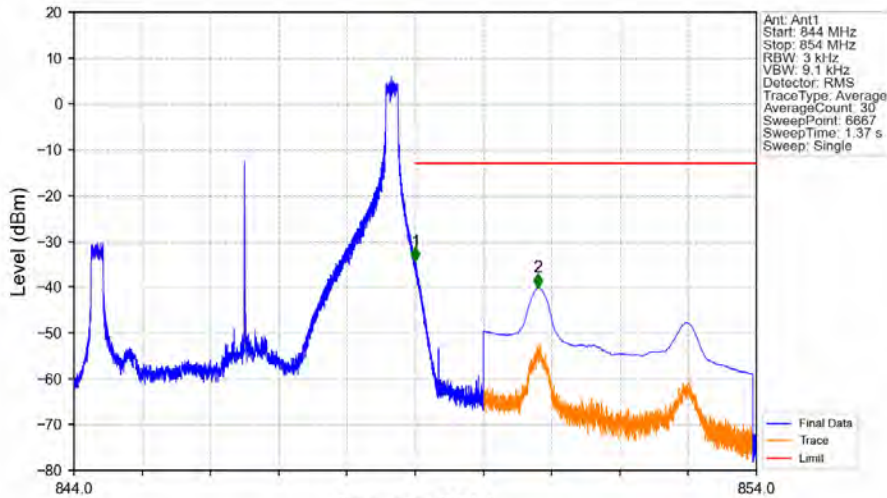
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-34.37	-13	Pass
850	854	0.1	CHP	2	850.802	-40.06	-13	Pass



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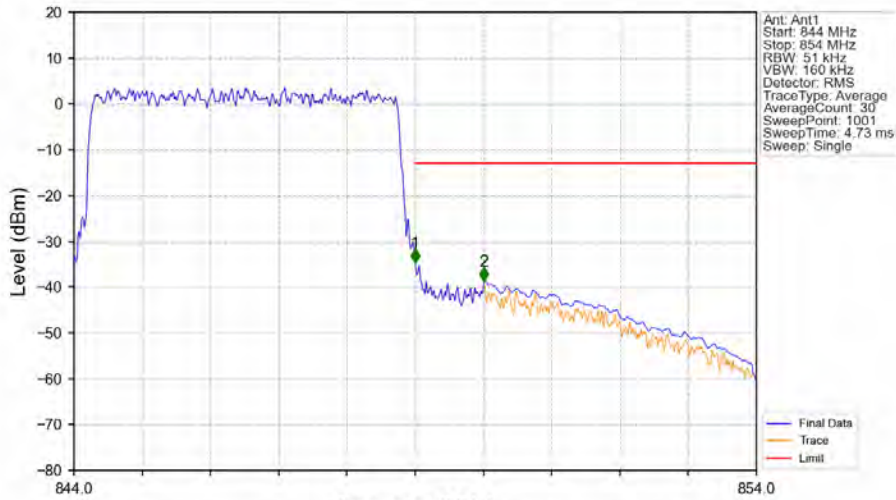
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.000	-34.71	-13	Pass
850	854	0.1	CHP	2	850.010	-38.75	-13	Pass



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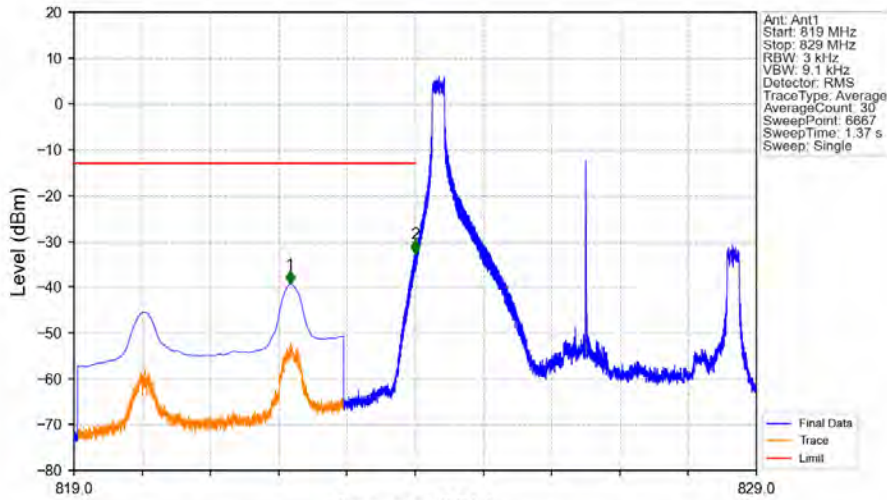
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.165	-39.43	-13	Pass
823	824	0.003	/	2	824.000	-32.68	-13	Pass
824	829	0.003	/	/	/	/	/	/



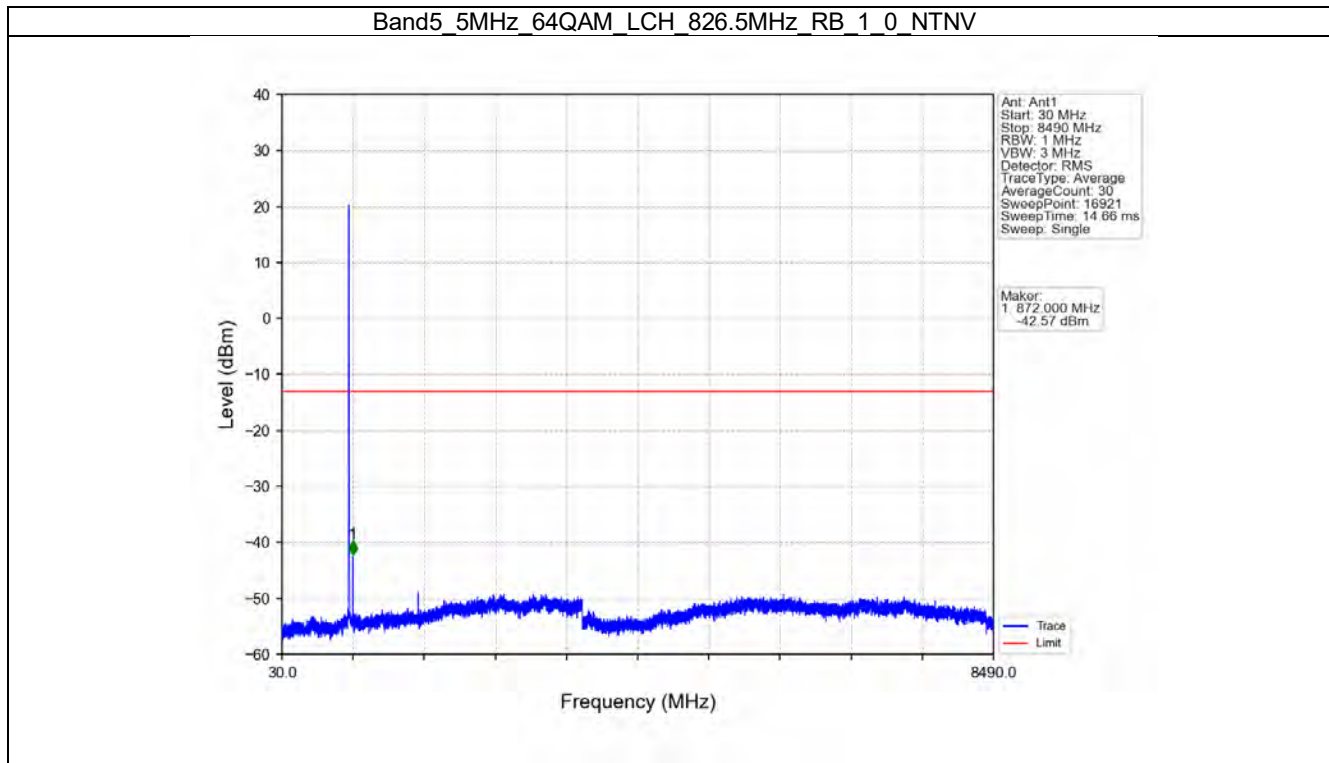
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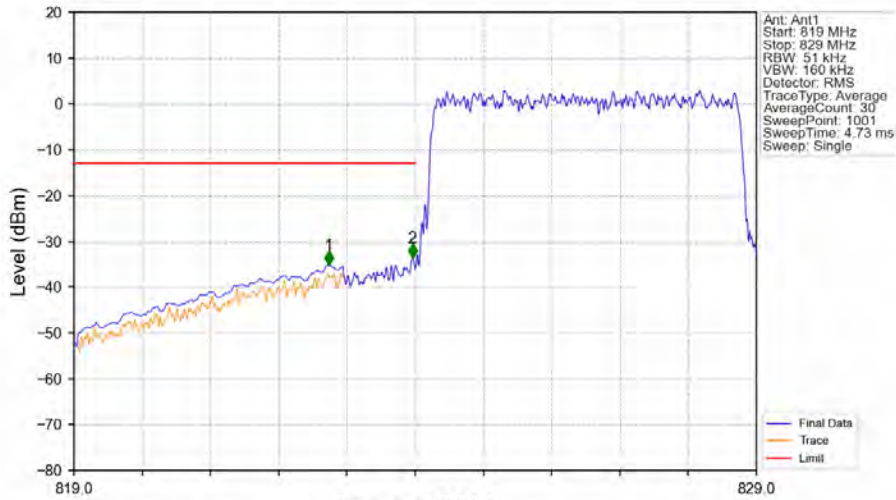
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.730	-35.17	-13	Pass
823	824	0.051	/	2	823.960	-33.67	-13	Pass
824	829	0.051	/	/	/	/	/	/



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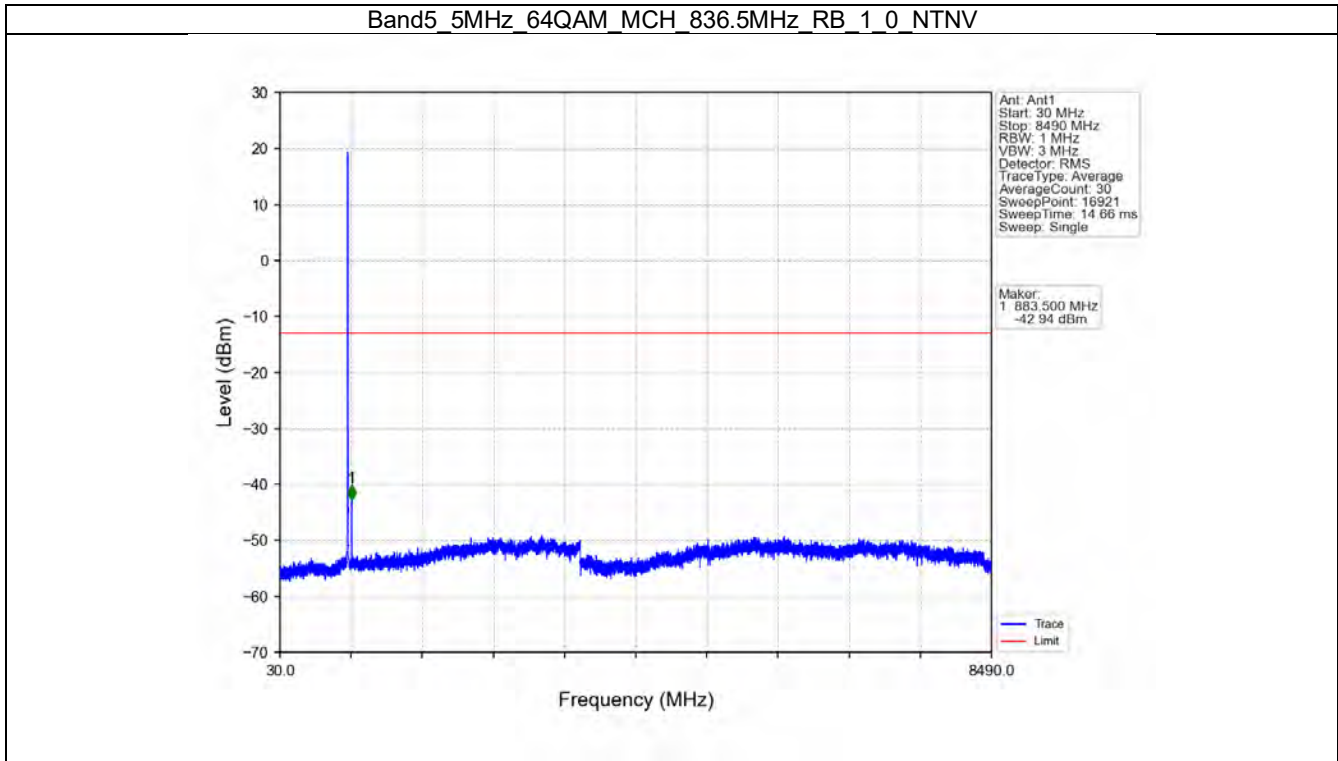


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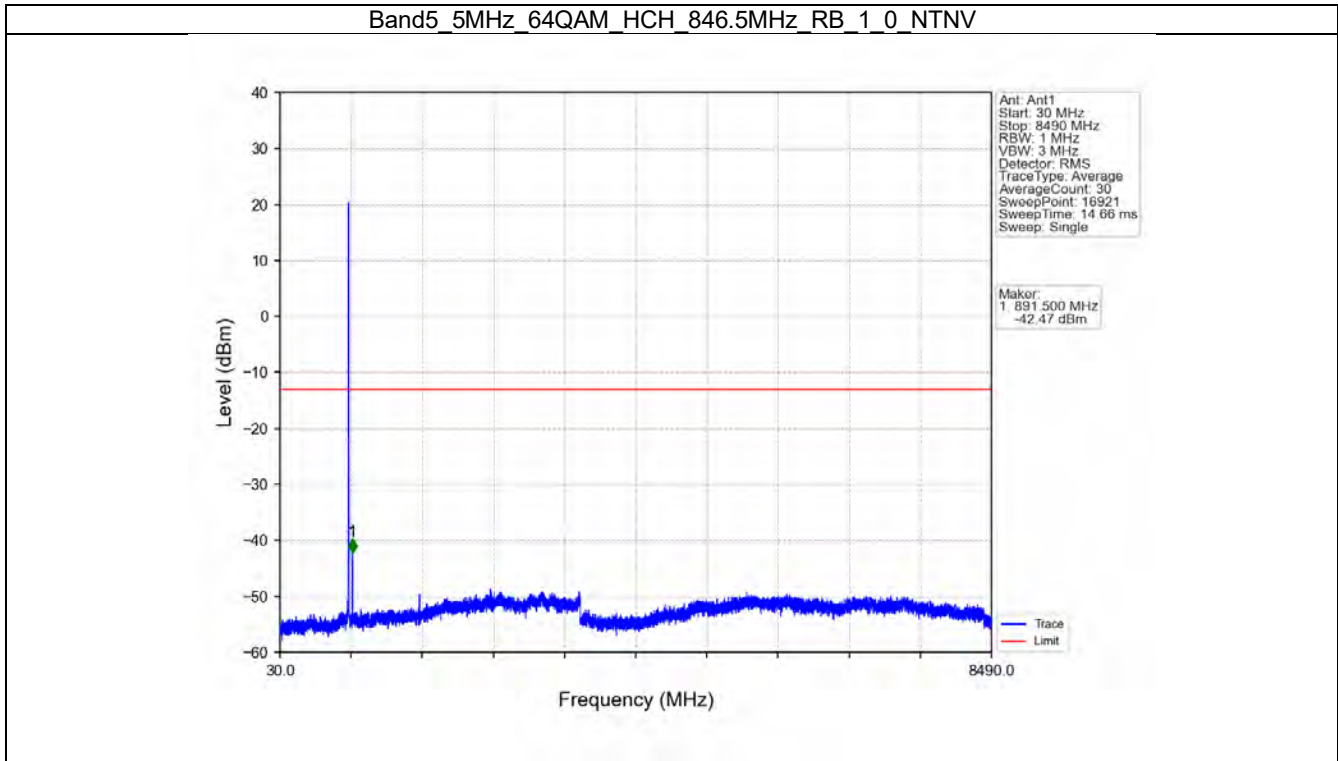


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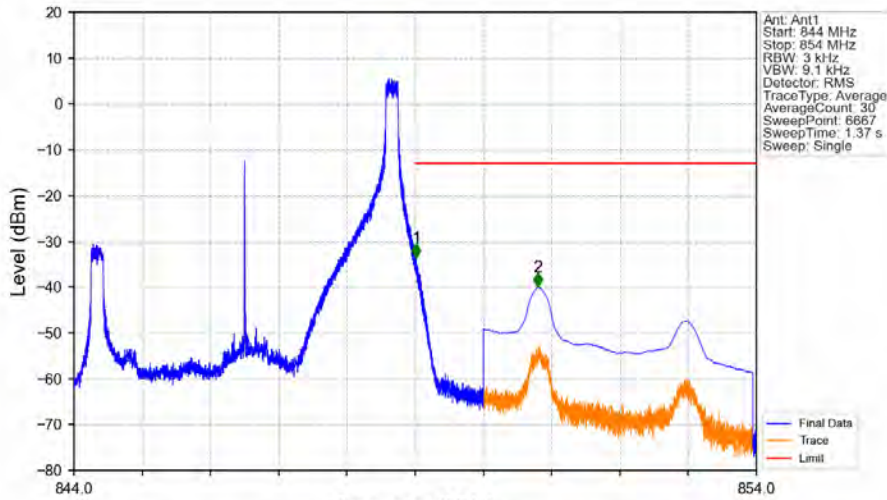
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.014	-33.62	-13	Pass
850	854	0.1	CHP	2	850.802	-40.04	-13	Pass



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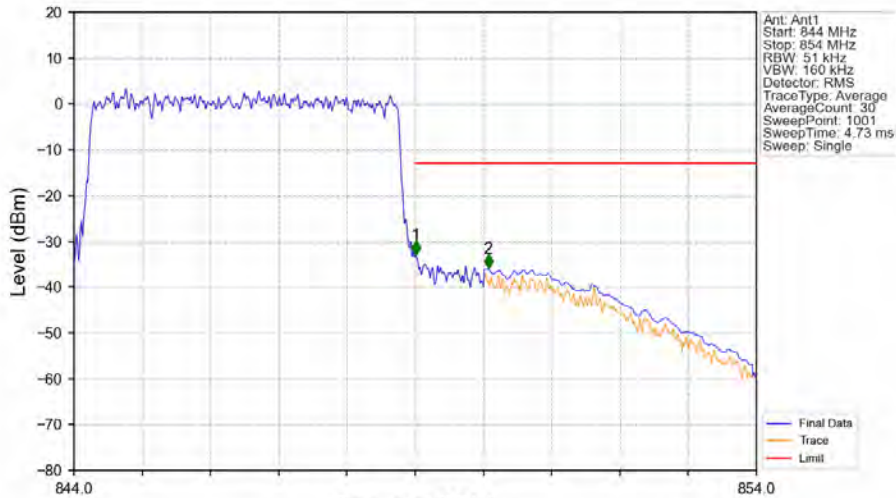
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.010	-32.94	-13	Pass
850	854	0.1	CHP	2	850.070	-35.98	-13	Pass



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5.4 B5_10MHz

5.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		844	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			
16QAM	829	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		844	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			
64QAM	829	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	836.5	1	0	Refer To Test Graph	Pass	
		844	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass	
50	0	Refer To Test Graph	Pass			



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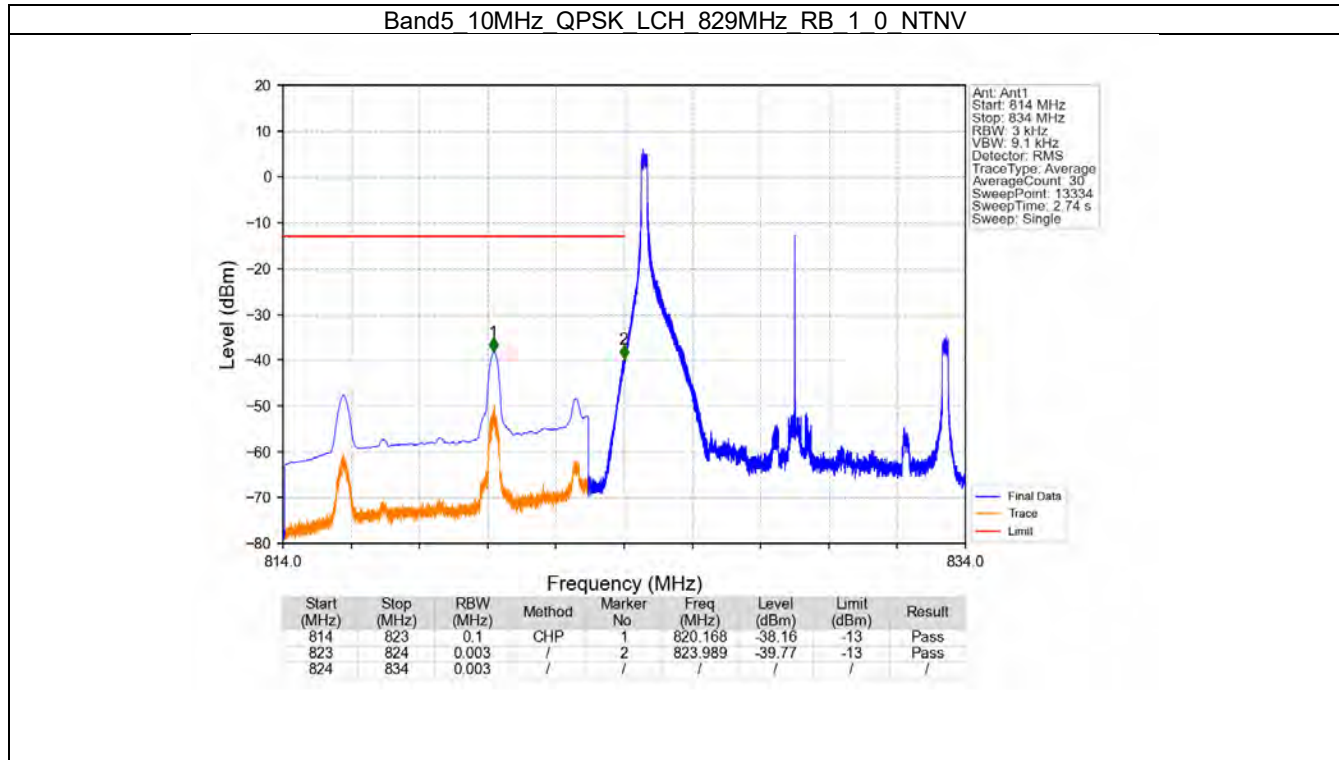
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5.4.2 Test Graph



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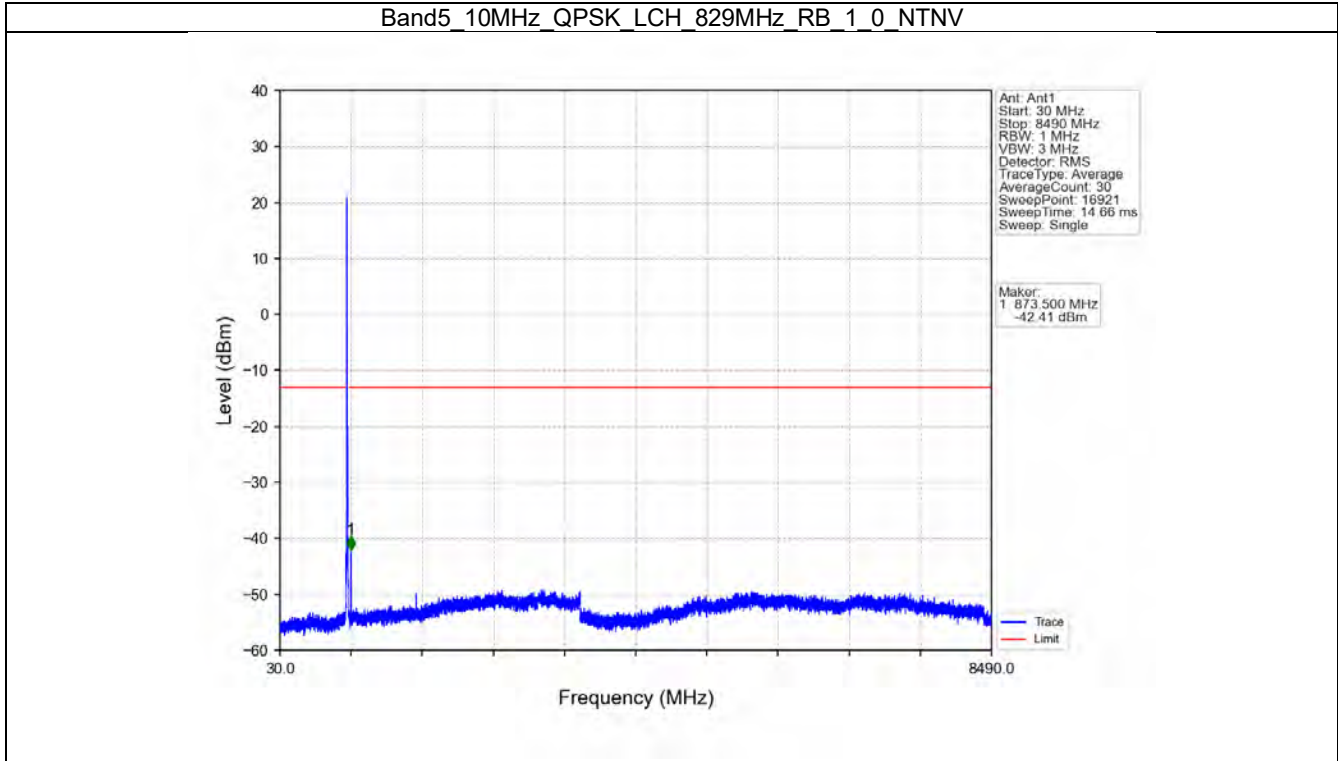


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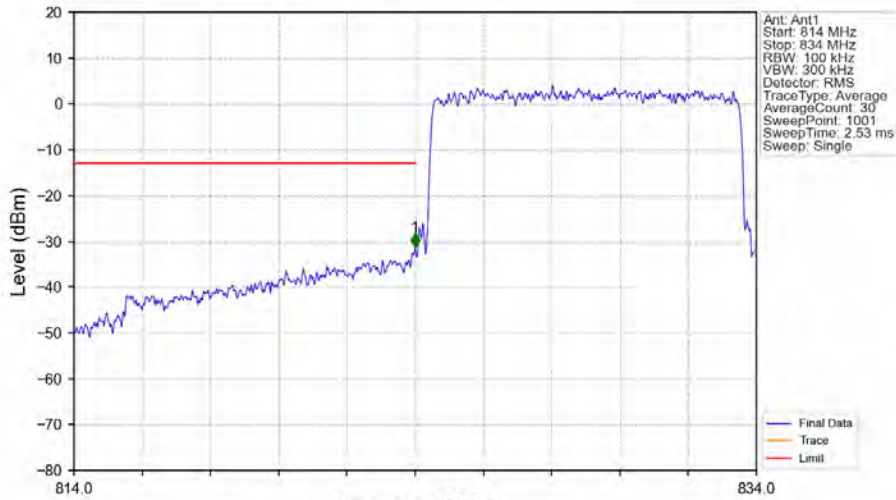
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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	824.000	-31.40	-13	Pass
824	834	0.1	/	/	/	/	/	/



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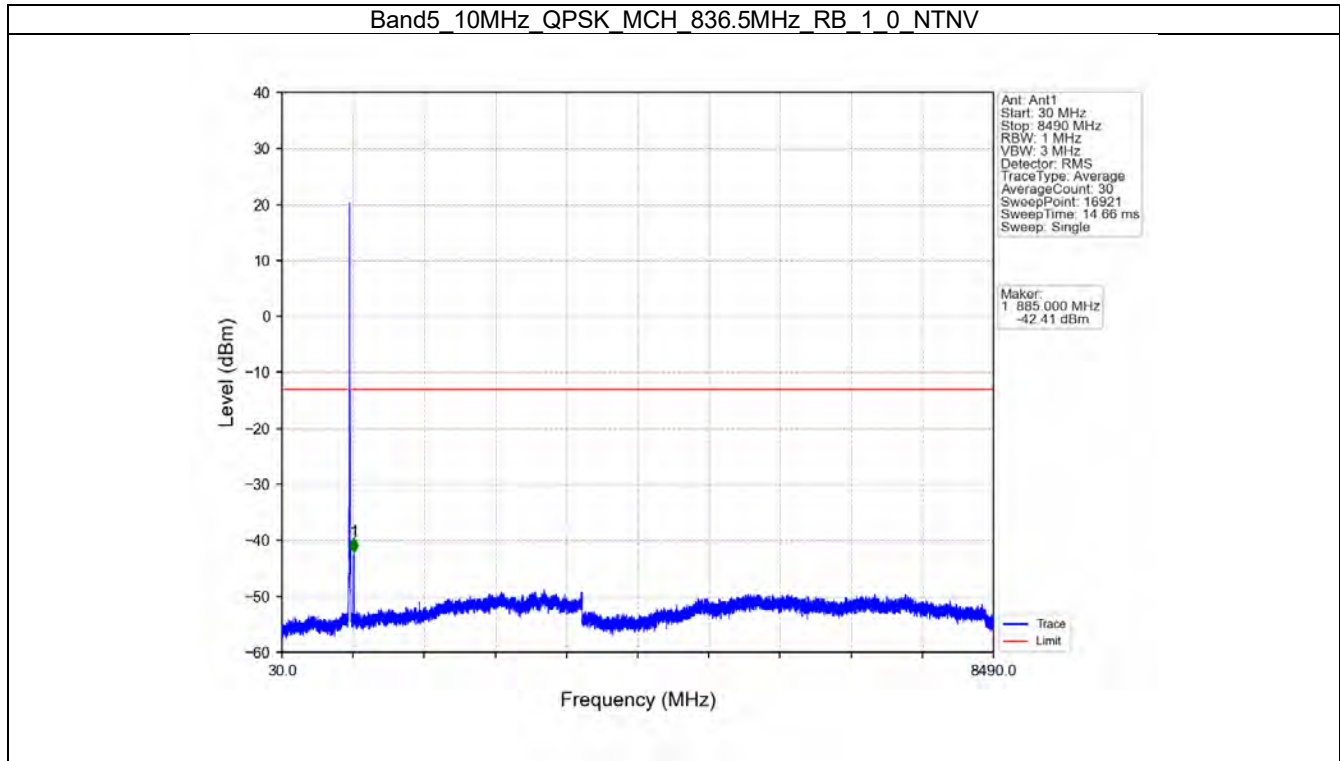


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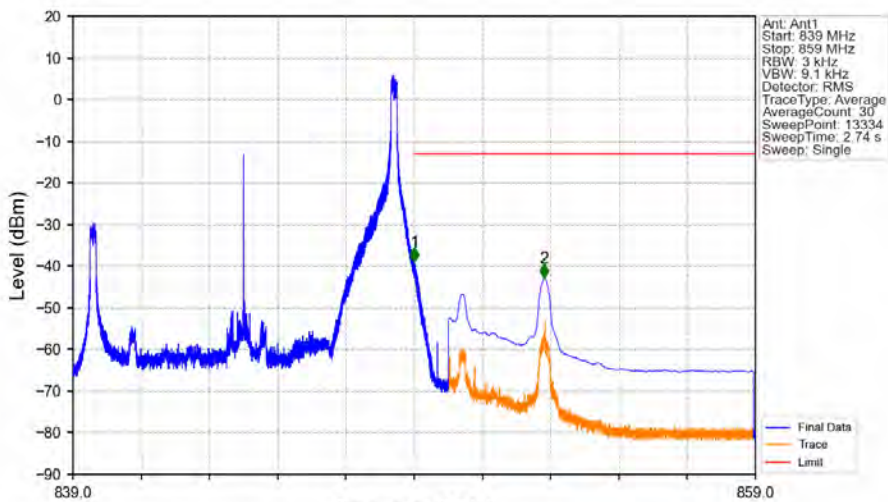
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Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.002	-39.00	-13	Pass
850	859	0.1	CHP	2	852.817	-42.81	-13	Pass



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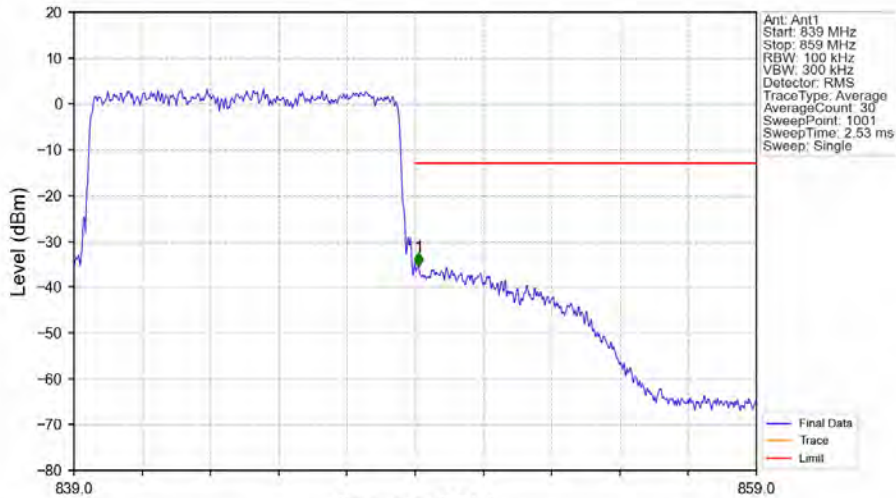
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	859	0.1	/	1	849.100	-35.52	-13	Pass



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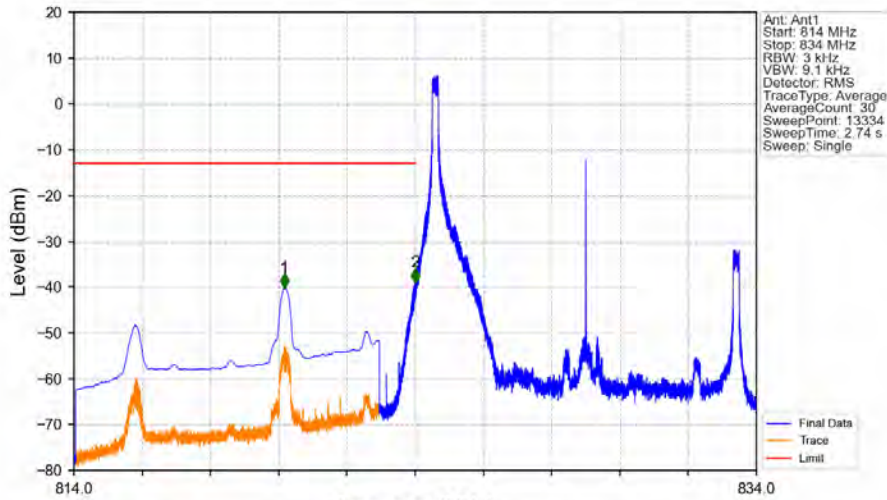
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Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	820.164	-40.17	-13	Pass
823	824	0.003	/	2	823.999	-39.00	-13	Pass
824	834	0.003	/	/	/	/	/	/



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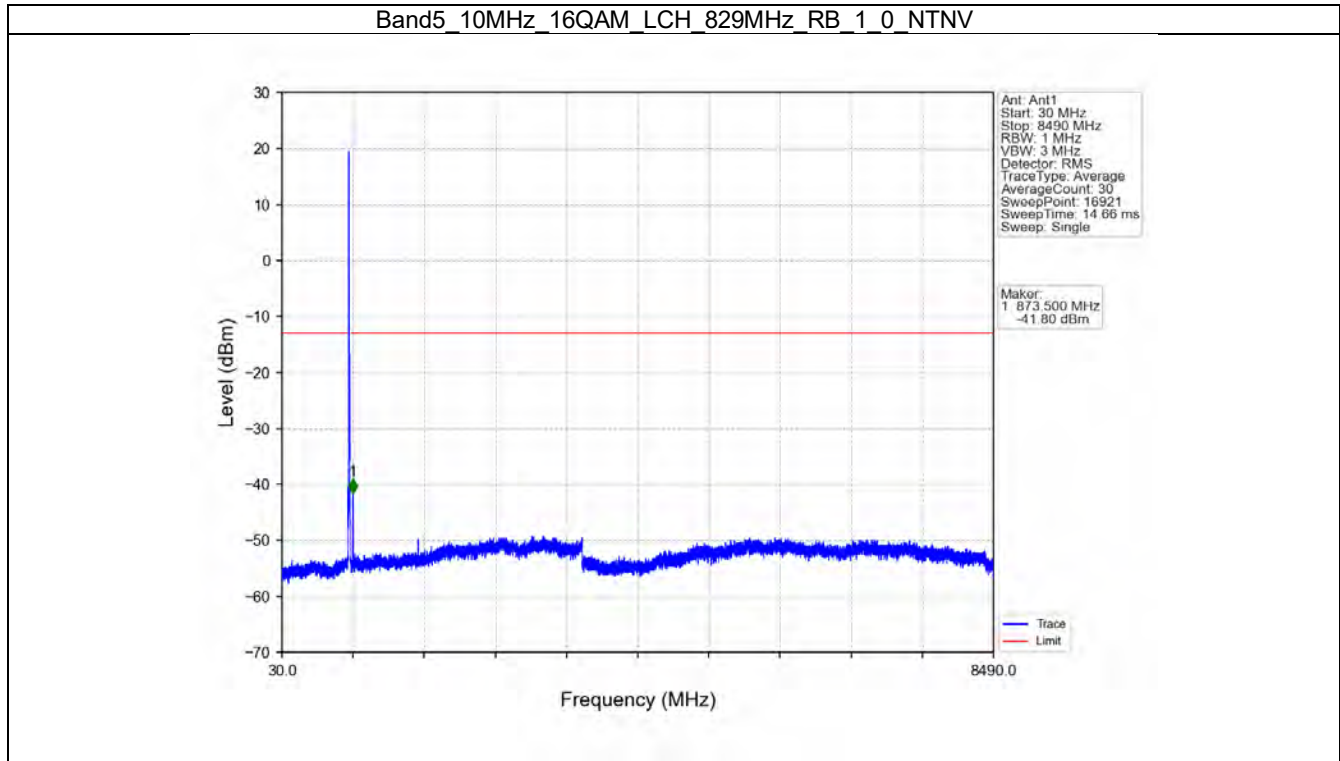


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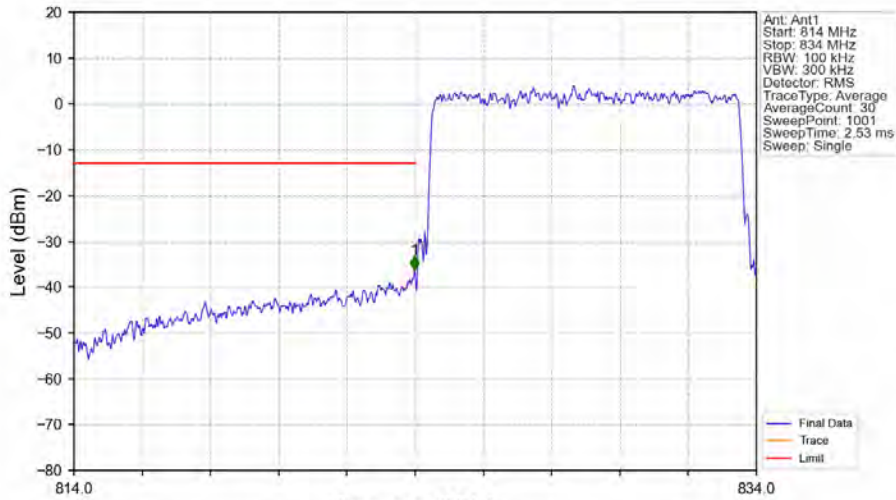
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	823.980	-36.31	-13	Pass
824	834	0.1	/	/	/	/	/	/



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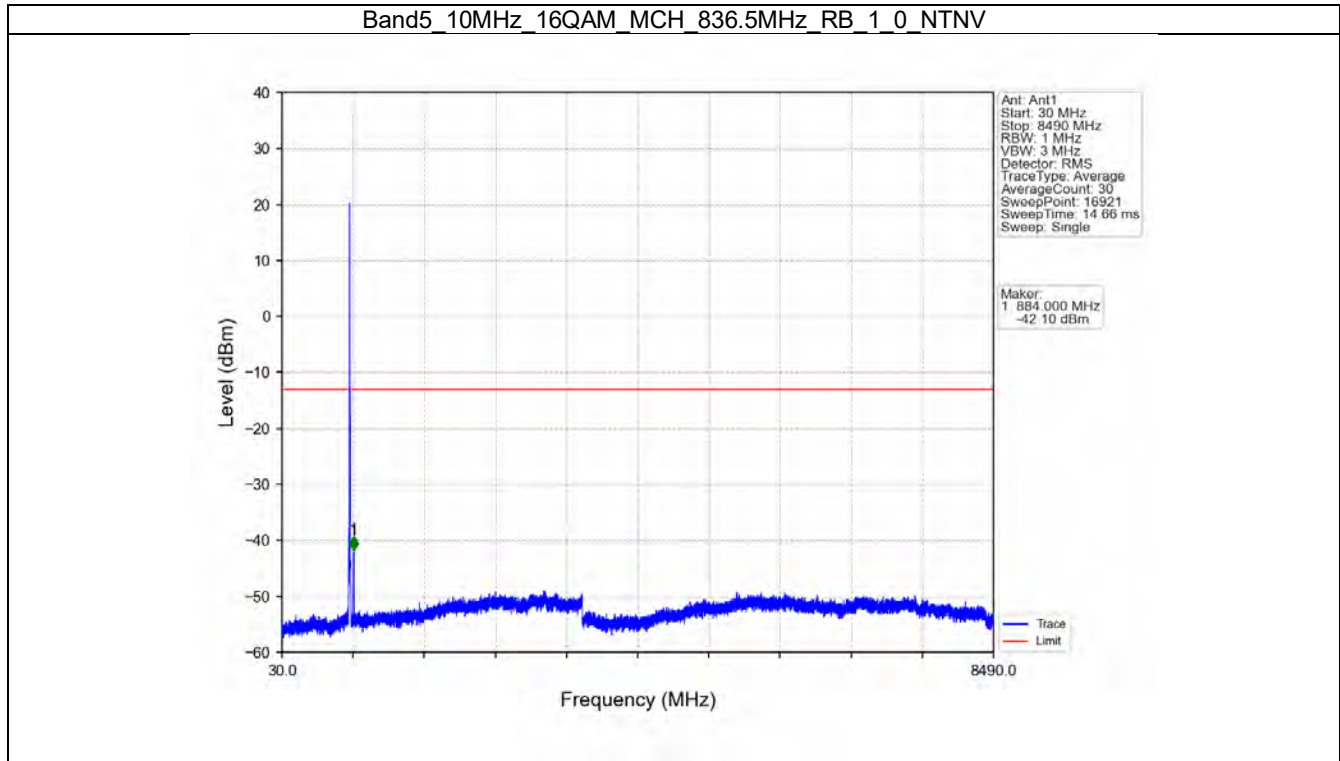


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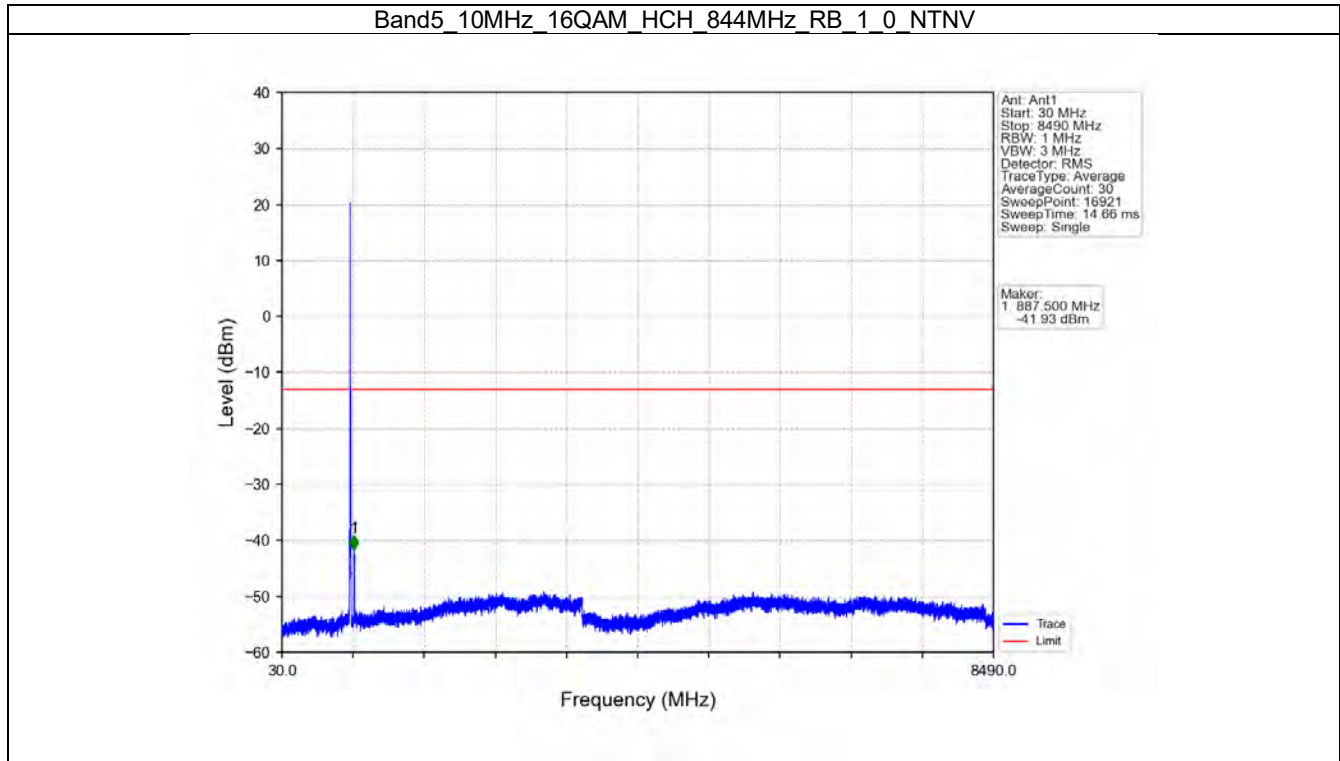


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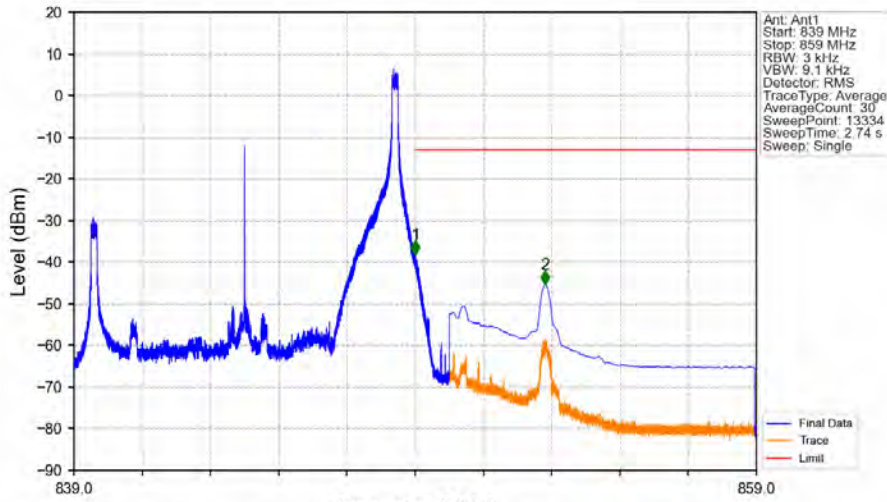
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Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.002	-38.19	-13	Pass
850	859	0.1	CHP	2	852.803	-45.33	-13	Pass



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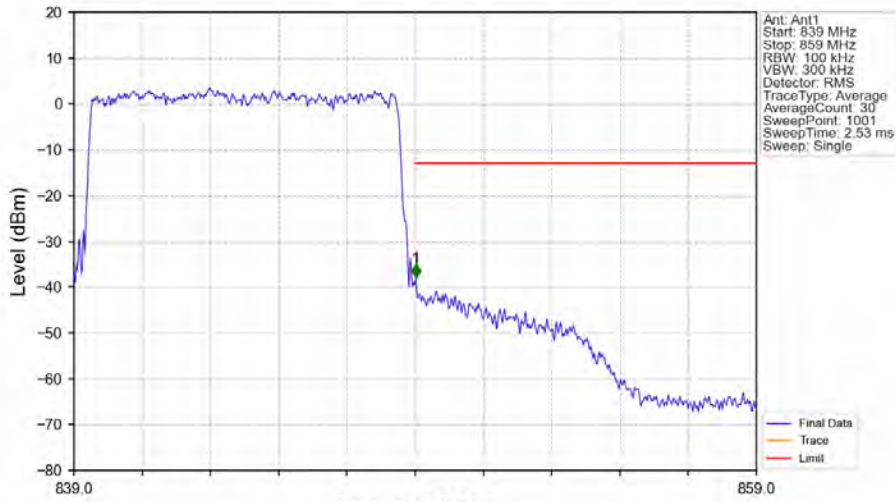
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	859	0.1	/	1	849.020	-37.98	-13	Pass



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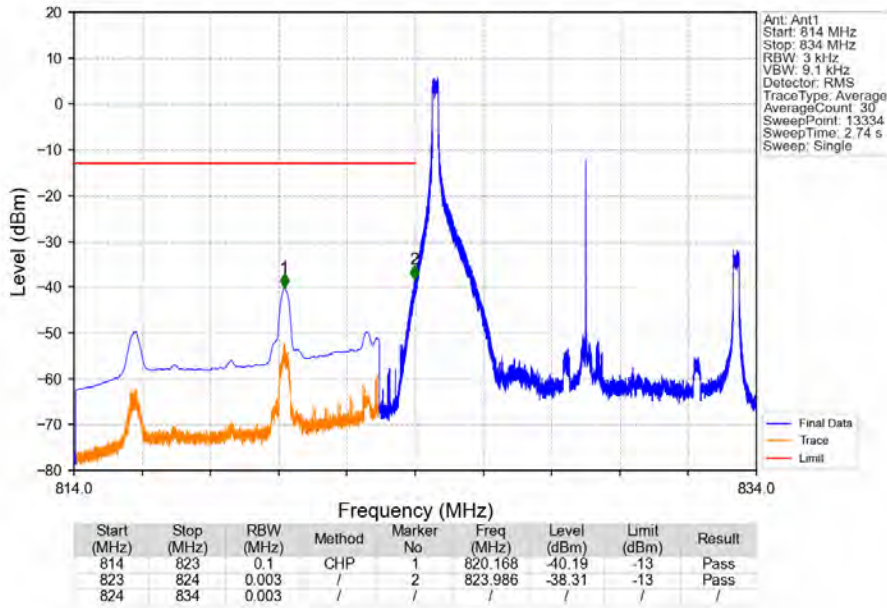
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Band5_10MHz_64QAM_LCH_829MHz_RB_1_0_NTNV



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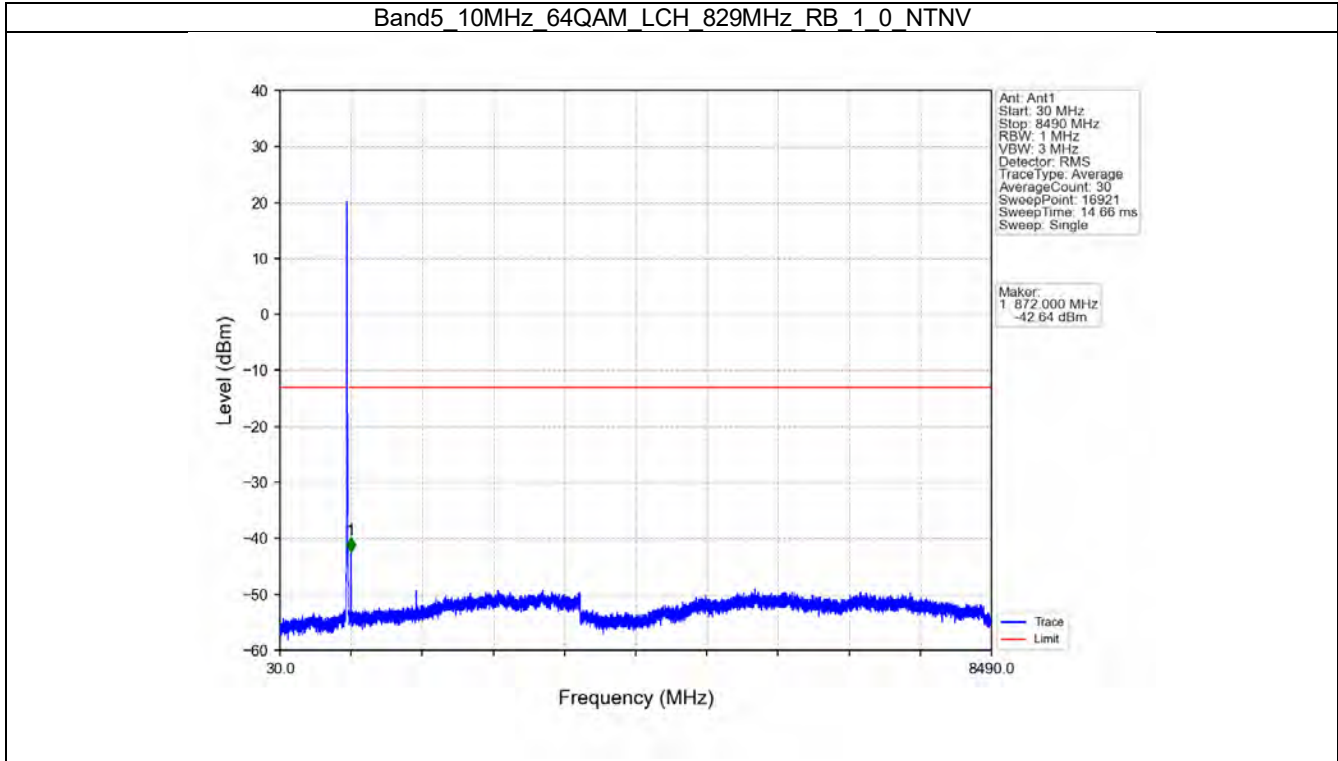


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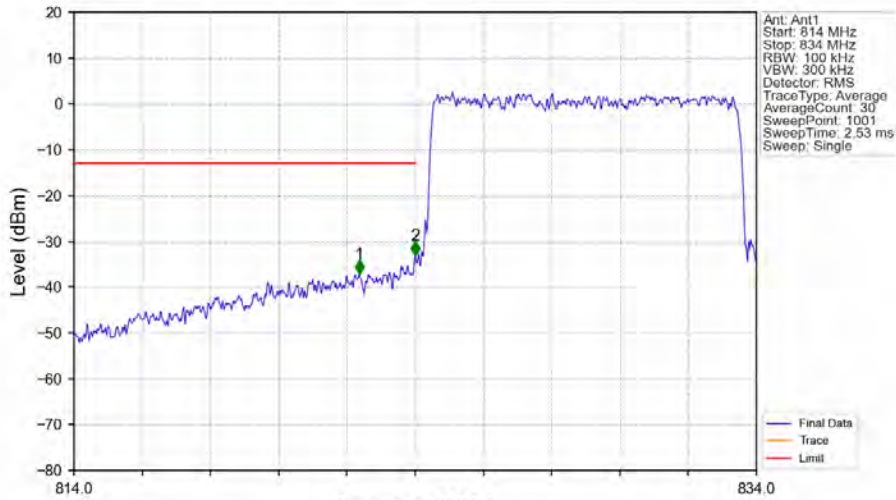
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.360	-37.16	-13	Pass
823	824	0.122	/	2	824.000	-33.10	-13	Pass
824	834	0.122	/	/	/	/	/	/



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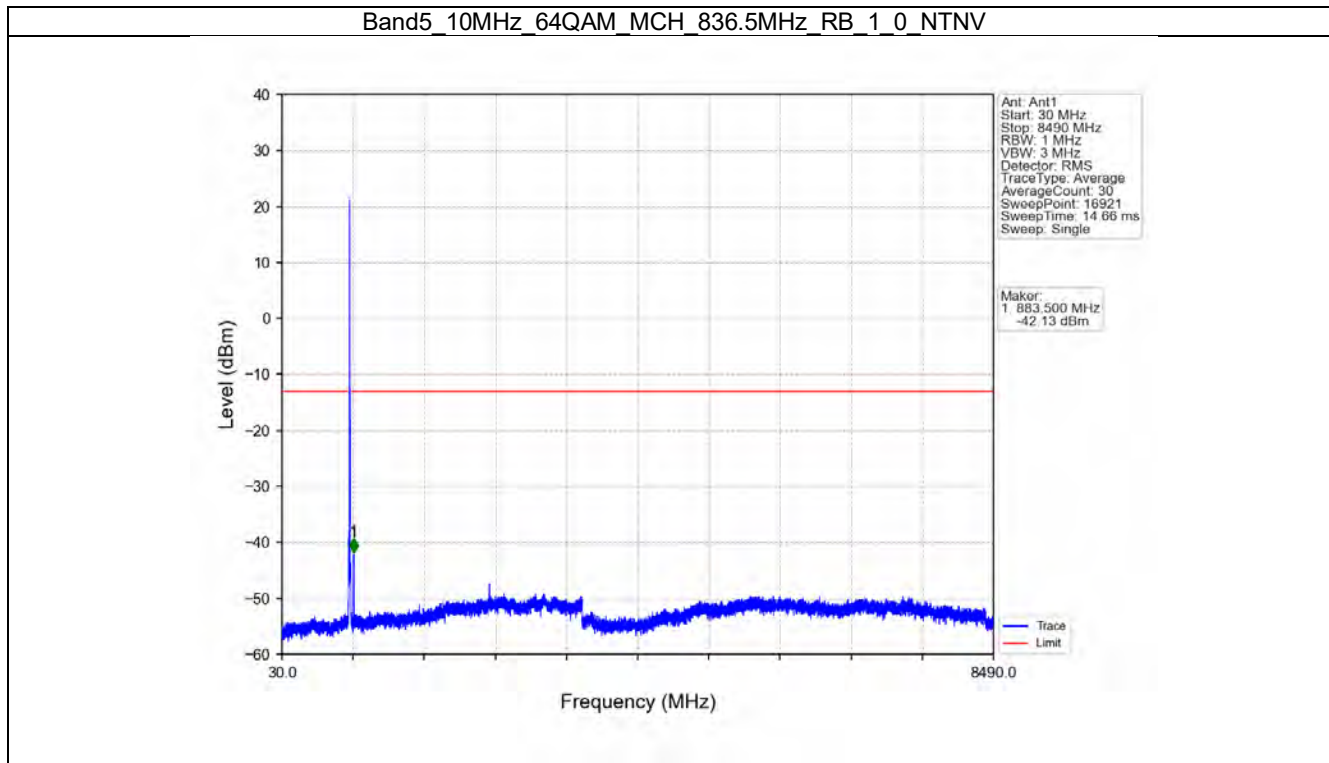
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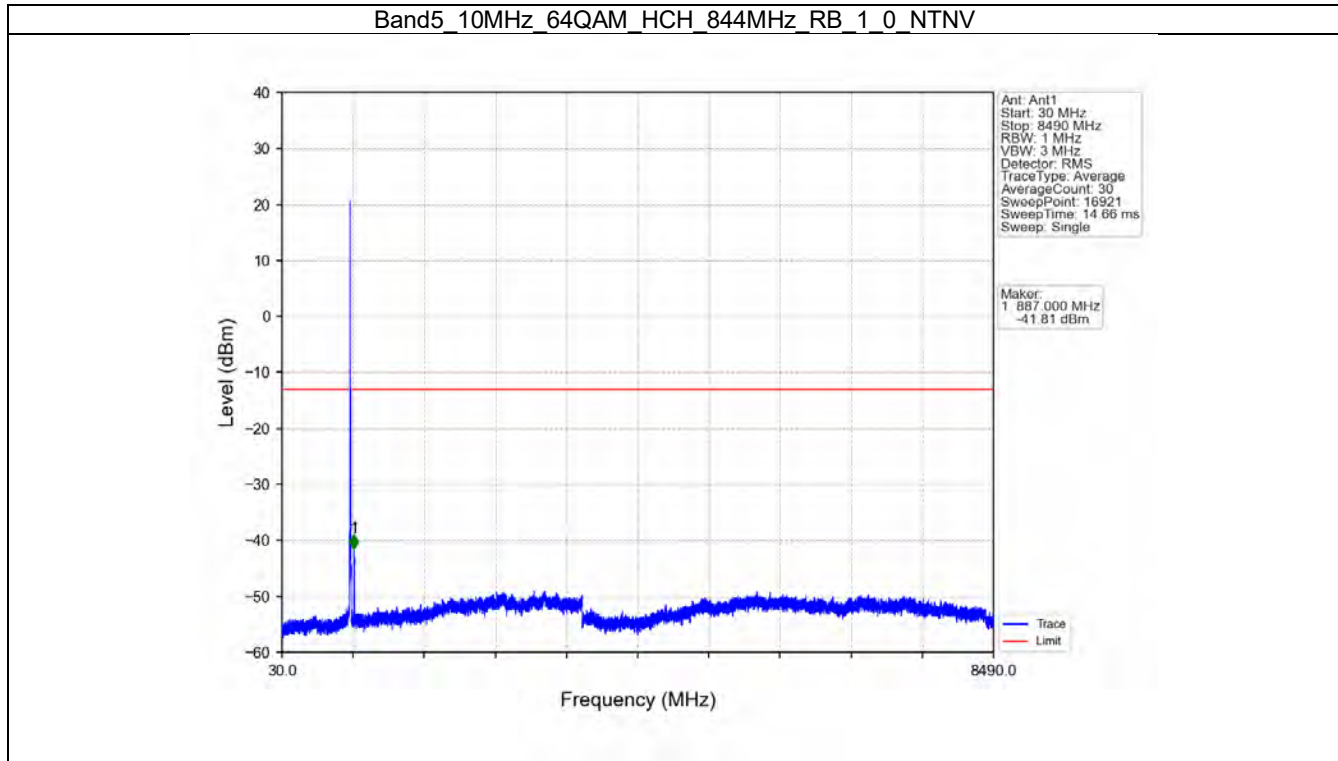


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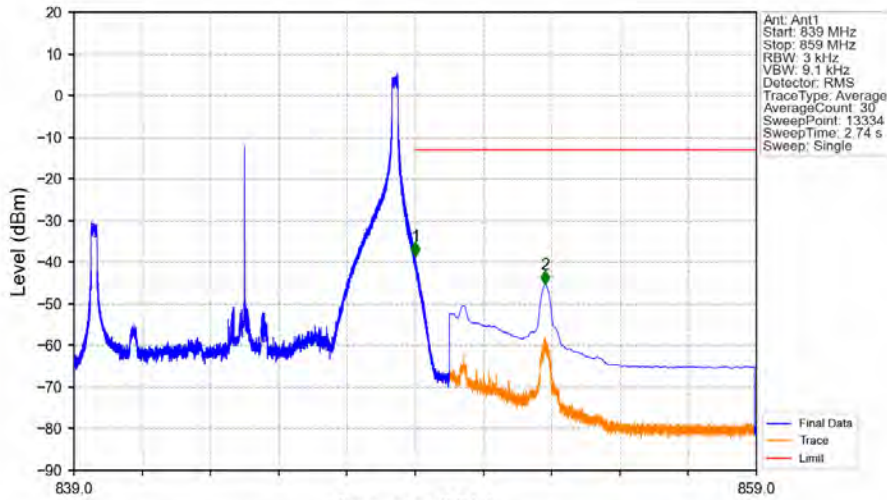
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Band5_10MHz_64QAM_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.002	-38.54	-13	Pass
850	859	0.1	CHP	2	852.802	-45.35	-13	Pass



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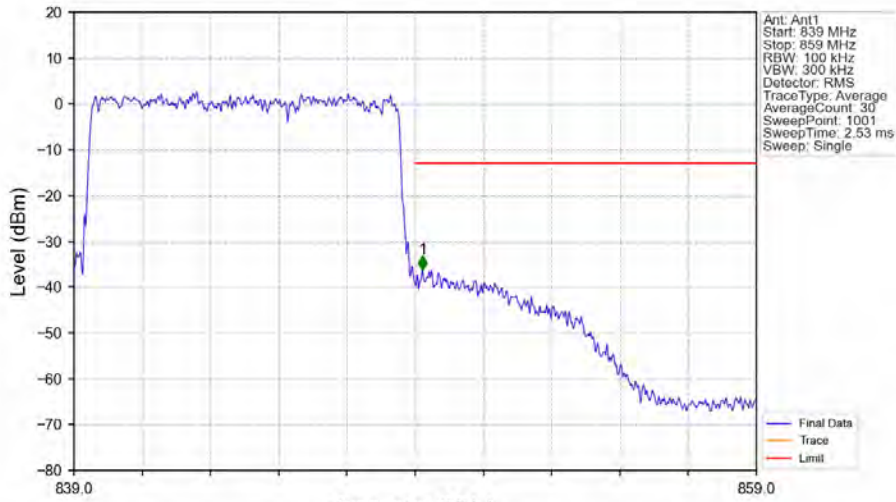
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Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	859	0.1	/	1	849.220	-36.17	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = B5 _ TM1
Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.0000	45.82	24.90	-48.85	-73.39	-13.00	60.39	Horizontal
2	2473.5000	47.78	27.34	-47.88	-68.02	-13.00	55.02	Horizontal
3	3298.0000	44.19	28.66	-47.15	-69.56	-13.00	56.56	Horizontal
4	4122.5000	43.97	29.67	-47.50	-69.12	-13.00	56.12	Horizontal
5	4947.0000	44.04	31.27	-46.98	-66.93	-13.00	53.93	Horizontal
6	5771.5000	43.47	32.49	-46.96	-66.26	-13.00	53.26	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.0000	47.06	24.90	-48.85	-72.15	-13.00	59.15	Vertical
2	2473.5000	58.28	27.34	-47.88	-57.52	-13.00	44.52	Vertical
3	3298.0000	44.57	28.66	-47.15	-69.18	-13.00	56.18	Vertical
4	4122.5000	44.08	29.67	-47.50	-69.01	-13.00	56.01	Vertical
5	4947.0000	43.84	31.27	-46.98	-67.13	-13.00	54.13	Vertical
6	5771.5000	43.64	32.49	-46.96	-66.09	-13.00	53.09	Vertical



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Test Band = B5 _ TM1
Test Channel = mid

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.0000	46.50	24.93	-48.82	-72.65	-13.00	59.65	Horizontal
2	2496.0000	55.34	27.39	-47.78	-60.31	-13.00	47.31	Horizontal
3	3328.0000	44.73	28.67	-47.21	-69.07	-13.00	56.07	Horizontal
4	4160.0000	44.49	29.72	-47.32	-68.37	-13.00	55.37	Horizontal
5	4992.0000	44.31	31.38	-46.95	-66.52	-13.00	53.52	Horizontal
6	5824.0000	43.84	32.47	-46.80	-65.75	-13.00	52.75	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.0000	48.20	24.93	-48.82	-70.95	-13.00	57.95	Vertical
2	2496.0000	55.67	27.39	-47.78	-59.98	-13.00	46.98	Vertical
3	3328.0000	44.81	28.67	-47.21	-68.99	-13.00	55.99	Vertical
4	4160.0000	44.11	29.72	-47.32	-68.75	-13.00	55.75	Vertical
5	4992.0000	44.59	31.38	-46.95	-66.24	-13.00	53.24	Vertical
6	5824.0000	43.61	32.47	-46.80	-65.98	-13.00	52.98	Vertical



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Test Band = B5 _ TM1
Test Channel = high

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.0000	45.71	24.96	-48.80	-73.39	-13.00	60.39	Horizontal
2	2518.5000	57.65	27.44	-47.82	-57.99	-13.00	44.99	Horizontal
3	3358.0000	44.33	28.67	-47.27	-69.53	-13.00	56.53	Horizontal
4	4197.5000	43.83	29.78	-47.13	-68.78	-13.00	55.78	Horizontal
5	5037.0000	43.71	31.49	-46.99	-67.05	-13.00	54.05	Horizontal
6	5876.5000	43.56	32.45	-46.36	-65.61	-13.00	52.61	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.0000	46.58	24.96	-48.80	-72.52	-13.00	59.52	Vertical
2	2518.5000	60.91	27.44	-47.82	-54.73	-13.00	41.73	Vertical
3	3358.0000	45.34	28.67	-47.27	-68.52	-13.00	55.52	Vertical
4	4197.5000	43.69	29.78	-47.13	-68.92	-13.00	55.92	Vertical
5	5037.0000	44.36	31.49	-46.99	-66.40	-13.00	53.40	Vertical
6	5876.5000	43.28	32.45	-46.36	-65.89	-13.00	52.89	Vertical

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

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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