

Report No.: SUCR240400011301
Rev.: 01
Page: 1 of 124

Appendix B.6

LTE Band 5



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP (NPANT002)

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	23.06	3.32	24.23	<=38.45	Pass	
			2	23.11	3.32	24.28	<=38.45	Pass	
			5	23.07	3.32	24.24	<=38.45	Pass	
		3	0	23.19	3.32	24.36	<=38.45	Pass	
			2	23.20	3.32	24.37	<=38.45	Pass	
			3	23.15	3.32	24.32	<=38.45	Pass	
	836.5	1	0	22.11	3.32	23.28	<=38.45	Pass	
			2	23.16	3.32	24.33	<=38.45	Pass	
			5	23.25	3.32	24.42	<=38.45	Pass	
		3	0	23.17	3.32	24.34	<=38.45	Pass	
			2	23.25	3.32	24.42	<=38.45	Pass	
			3	23.32	3.32	24.49	<=38.45	Pass	
	848.3	1	0	23.23	3.32	24.40	<=38.45	Pass	
			2	22.17	3.32	23.34	<=38.45	Pass	
			3	23.04	3.32	24.21	<=38.45	Pass	
		3	0	23.10	3.32	24.27	<=38.45	Pass	
			2	23.01	3.32	24.18	<=38.45	Pass	
			3	23.18	3.32	24.35	<=38.45	Pass	
	16QAM	824.7	1	0	23.18	3.32	24.35	<=38.45	Pass
				2	23.21	3.32	24.38	<=38.45	Pass
				3	23.12	3.32	24.29	<=38.45	Pass
			3	0	22.09	3.32	23.26	<=38.45	Pass
				2	22.27	3.32	23.44	<=38.45	Pass
				5	22.34	3.32	23.51	<=38.45	Pass
836.5		1	0	22.26	3.32	23.43	<=38.45	Pass	
			2	22.17	3.32	23.34	<=38.45	Pass	
			3	22.24	3.32	23.41	<=38.45	Pass	
		3	0	22.18	3.32	23.35	<=38.45	Pass	
			2	21.17	3.32	22.34	<=38.45	Pass	
			3	22.24	3.32	23.41	<=38.45	Pass	
848.3		1	0	22.29	3.32	23.46	<=38.45	Pass	
			2	22.27	3.32	23.44	<=38.45	Pass	
			3	22.36	3.32	23.53	<=38.45	Pass	
		3	0	22.44	3.32	23.61	<=38.45	Pass	
			2	22.33	3.32	23.50	<=38.45	Pass	
			3	21.16	3.32	22.33	<=38.45	Pass	
848.3		1	0	22.09	3.32	23.26	<=38.45	Pass	
			2	22.13	3.32	23.30	<=38.45	Pass	
			3	22.09	3.32	23.26	<=38.45	Pass	
		3	0	22.37	3.32	23.54	<=38.45	Pass	
			2	22.44	3.32	23.61	<=38.45	Pass	
			3	22.44	3.32	23.61	<=38.45	Pass	



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Report No.: SUCR240400011301

Rev.: 01

Page: 3 of 124

		3	22.38	3.32	23.55	<=38.45	Pass
	6	0	21.16	3.32	22.33	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15							



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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	23.15	3.32	24.32	<=38.45	Pass		
			7	23.20	3.32	24.37	<=38.45	Pass		
			14	23.07	3.32	24.24	<=38.45	Pass		
		8	0	22.15	3.32	23.32	<=38.45	Pass		
			4	22.19	3.32	23.36	<=38.45	Pass		
			7	22.13	3.32	23.30	<=38.45	Pass		
		15	0	22.21	3.32	23.38	<=38.45	Pass		
		836.5	1	0	23.25	3.32	24.42	<=38.45	Pass	
				7	23.33	3.32	24.50	<=38.45	Pass	
	14			23.19	3.32	24.36	<=38.45	Pass		
	8		0	22.28	3.32	23.45	<=38.45	Pass		
			4	22.31	3.32	23.48	<=38.45	Pass		
			7	22.27	3.32	23.44	<=38.45	Pass		
	15		0	22.28	3.32	23.45	<=38.45	Pass		
	847.5		1	0	23.15	3.32	24.32	<=38.45	Pass	
				7	23.21	3.32	24.38	<=38.45	Pass	
		14		23.16	3.32	24.33	<=38.45	Pass		
		8	0	22.16	3.32	23.33	<=38.45	Pass		
			4	22.19	3.32	23.36	<=38.45	Pass		
			7	22.15	3.32	23.32	<=38.45	Pass		
		15	0	22.21	3.32	23.38	<=38.45	Pass		
		16QAM	825.5	1	0	22.70	3.32	23.87	<=38.45	Pass
					7	22.80	3.32	23.97	<=38.45	Pass
	14				22.65	3.32	23.82	<=38.45	Pass	
8	0			21.39	3.32	22.56	<=38.45	Pass		
	4			21.40	3.32	22.57	<=38.45	Pass		
	7			21.36	3.32	22.53	<=38.45	Pass		
15	0			21.32	3.32	22.49	<=38.45	Pass		
836.5	1			0	22.42	3.32	23.59	<=38.45	Pass	
				7	22.55	3.32	23.72	<=38.45	Pass	
			14	22.37	3.32	23.54	<=38.45	Pass		
	8		0	21.30	3.32	22.47	<=38.45	Pass		
			4	21.33	3.32	22.50	<=38.45	Pass		
			7	21.28	3.32	22.45	<=38.45	Pass		
	15		0	21.30	3.32	22.47	<=38.45	Pass		
	847.5		1	0	22.27	3.32	23.44	<=38.45	Pass	
				7	22.28	3.32	23.45	<=38.45	Pass	
14				22.14	3.32	23.31	<=38.45	Pass		
8			0	21.30	3.32	22.47	<=38.45	Pass		
			4	21.29	3.32	22.46	<=38.45	Pass		
			7	21.26	3.32	22.43	<=38.45	Pass		
15			0	21.28	3.32	22.45	<=38.45	Pass		



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Report No.: SUCR240400011301

Rev.: 01

Page: 5 of 124

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	23.17	3.32	24.34	<=38.45	Pass	
			13	23.18	3.32	24.35	<=38.45	Pass	
			24	23.09	3.32	24.26	<=38.45	Pass	
		12	0	22.22	3.32	23.39	<=38.45	Pass	
			6	22.23	3.32	23.40	<=38.45	Pass	
			13	22.16	3.32	23.33	<=38.45	Pass	
		25	0	22.21	3.32	23.38	<=38.45	Pass	
		836.5	1	0	23.22	3.32	24.39	<=38.45	Pass
				13	23.31	3.32	24.48	<=38.45	Pass
	24			23.19	3.32	24.36	<=38.45	Pass	
	12		0	22.30	3.32	23.47	<=38.45	Pass	
			6	22.33	3.32	23.50	<=38.45	Pass	
			13	22.25	3.32	23.42	<=38.45	Pass	
	25		0	22.31	3.32	23.48	<=38.45	Pass	
	846.5		1	0	23.14	3.32	24.31	<=38.45	Pass
				13	23.21	3.32	24.38	<=38.45	Pass
		24		23.12	3.32	24.29	<=38.45	Pass	
		12	0	22.24	3.32	23.41	<=38.45	Pass	
			6	22.24	3.32	23.41	<=38.45	Pass	
			13	22.19	3.32	23.36	<=38.45	Pass	
	25	0	22.24	3.32	23.41	<=38.45	Pass		
	16QAM	826.5	1	0	22.02	3.32	23.19	<=38.45	Pass
				13	22.13	3.32	23.30	<=38.45	Pass
				24	22.02	3.32	23.19	<=38.45	Pass
12			0	21.28	3.32	22.45	<=38.45	Pass	
			6	21.31	3.32	22.48	<=38.45	Pass	
			13	21.26	3.32	22.43	<=38.45	Pass	
25			0	21.28	3.32	22.45	<=38.45	Pass	
836.5			1	0	22.57	3.32	23.74	<=38.45	Pass
				13	22.62	3.32	23.79	<=38.45	Pass
		24		22.47	3.32	23.64	<=38.45	Pass	
		12	0	21.43	3.32	22.60	<=38.45	Pass	
			6	21.44	3.32	22.61	<=38.45	Pass	
			13	21.32	3.32	22.49	<=38.45	Pass	
		25	0	21.33	3.32	22.50	<=38.45	Pass	
		846.5	1	0	22.33	3.32	23.50	<=38.45	Pass
				13	22.38	3.32	23.55	<=38.45	Pass
24				22.20	3.32	23.37	<=38.45	Pass	
12			0	21.32	3.32	22.49	<=38.45	Pass	
			6	21.31	3.32	22.48	<=38.45	Pass	
			13	21.20	3.32	22.37	<=38.45	Pass	
25		0	21.29	3.32	22.46	<=38.45	Pass		



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Report No.: SUCR240400011301
Rev.: 01
Page: 7 of 124

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.4 B5_10MHz_ERP

1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	829	1	0	23.15	3.32	24.32	<=38.45	Pass	
			25	23.05	3.32	24.22	<=38.45	Pass	
			49	23.09	3.32	24.26	<=38.45	Pass	
		25	0	22.21	3.32	23.38	<=38.45	Pass	
			13	22.34	3.32	23.51	<=38.45	Pass	
			25	22.27	3.32	23.44	<=38.45	Pass	
		50	0	22.32	3.32	23.49	<=38.45	Pass	
			1	0	23.21	3.32	24.38	<=38.45	Pass
				25	23.20	3.32	24.37	<=38.45	Pass
	49	23.14		3.32	24.31	<=38.45	Pass		
	836.5	25	0	22.31	3.32	23.48	<=38.45	Pass	
			13	22.34	3.32	23.51	<=38.45	Pass	
			25	22.29	3.32	23.46	<=38.45	Pass	
		50	0	22.34	3.32	23.51	<=38.45	Pass	
			1	0	23.26	3.32	24.43	<=38.45	Pass
				25	23.17	3.32	24.34	<=38.45	Pass
		49		23.08	3.32	24.25	<=38.45	Pass	
		844	25	0	22.30	3.32	23.47	<=38.45	Pass
				13	22.30	3.32	23.47	<=38.45	Pass
	25			22.21	3.32	23.38	<=38.45	Pass	
	50		0	22.26	3.32	23.43	<=38.45	Pass	
			1	0	22.73	3.32	23.90	<=38.45	Pass
				25	22.73	3.32	23.90	<=38.45	Pass
	16QAM	829		1	49	22.75	3.32	23.92	<=38.45
25			0		21.35	3.32	22.52	<=38.45	Pass
			13		21.45	3.32	22.62	<=38.45	Pass
			25	21.42	3.32	22.59	<=38.45	Pass	
50			0	21.36	3.32	22.53	<=38.45	Pass	
			1	0	22.50	3.32	23.67	<=38.45	Pass
				25	22.42	3.32	23.59	<=38.45	Pass
49				22.38	3.32	23.55	<=38.45	Pass	
836.5			25	0	21.40	3.32	22.57	<=38.45	Pass
		13		21.40	3.32	22.57	<=38.45	Pass	
		25		21.35	3.32	22.52	<=38.45	Pass	
		50	0	21.40	3.32	22.57	<=38.45	Pass	
			1	0	22.33	3.32	23.50	<=38.45	Pass
				25	22.22	3.32	23.39	<=38.45	Pass
		49		22.15	3.32	23.32	<=38.45	Pass	
		844	25	0	21.44	3.32	22.61	<=38.45	Pass
				13	21.44	3.32	22.61	<=38.45	Pass
25				21.35	3.32	22.52	<=38.45	Pass	
50			0	21.35	3.32	22.52	<=38.45	Pass	



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Report No.: SUCR240400011301

Rev.: 01

Page: 9 of 124

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

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	3.135	-3.757	-0.0045	-2.5 to 2.5	Pass	
					3.7	-1.203	-0.0015	-2.5 to 2.5	Pass	
					4.4	-4.896	-0.0059	-2.5 to 2.5	Pass	
				-30	3.7	1.465	0.0018	-2.5 to 2.5	Pass	
					-20	3.7	-5.977	-0.0072	-2.5 to 2.5	Pass
						-10	3.7	0.189	0.0002	-2.5 to 2.5
				0	3.7	-0.864	-0.0010	-2.5 to 2.5	Pass	
					10	3.7	-5.797	-0.0070	-2.5 to 2.5	Pass
					30	3.7	-3.572	-0.0043	-2.5 to 2.5	Pass
					40	3.7	-1.154	-0.0014	-2.5 to 2.5	Pass
	50	3.7	-1.980		-0.0024	-2.5 to 2.5	Pass			
	836.5	50	0		20	3.135	-0.470	-0.0006	-2.5 to 2.5	Pass
						3.7	-1.401	-0.0017	-2.5 to 2.5	Pass
				4.4		0.856	0.0010	-2.5 to 2.5	Pass	
				-30	3.7	-6.486	-0.0078	-2.5 to 2.5	Pass	
					-20	3.7	-6.168	-0.0074	-2.5 to 2.5	Pass
						-10	3.7	-1.145	-0.0014	-2.5 to 2.5
				0	3.7	0.730	0.0009	-2.5 to 2.5	Pass	
					10	3.7	-2.367	-0.0028	-2.5 to 2.5	Pass
					30	3.7	-6.277	-0.0075	-2.5 to 2.5	Pass
					40	3.7	-5.431	-0.0065	-2.5 to 2.5	Pass
	50	3.7	-2.664		-0.0032	-2.5 to 2.5	Pass			
	844	50	0		20	3.135	-4.016	-0.0048	-2.5 to 2.5	Pass
						3.7	-5.404	-0.0064	-2.5 to 2.5	Pass
				4.4		-0.440	-0.0005	-2.5 to 2.5	Pass	
				-30	3.7	-1.613	-0.0019	-2.5 to 2.5	Pass	
					-20	3.7	-5.685	-0.0067	-2.5 to 2.5	Pass
						-10	3.7	0.770	0.0009	-2.5 to 2.5
				0	3.7	1.560	0.0018	-2.5 to 2.5	Pass	
					10	3.7	-0.559	-0.0007	-2.5 to 2.5	Pass
30					3.7	0.668	0.0008	-2.5 to 2.5	Pass	
40					3.7	-7.299	-0.0086	-2.5 to 2.5	Pass	
50	3.7	-3.029	-0.0036		-2.5 to 2.5	Pass				
16QAM	829	50	0		20	3.135	0.781	0.0009	-2.5 to 2.5	Pass
						3.7	-5.706	-0.0069	-2.5 to 2.5	Pass
				4.4		-1.790	-0.0022	-2.5 to 2.5	Pass	
				-30	3.7	-6.373	-0.0077	-2.5 to 2.5	Pass	
					-20	3.7	-3.165	-0.0038	-2.5 to 2.5	Pass
						-10	3.7	-3.850	-0.0046	-2.5 to 2.5
				0	3.7	-1.460	-0.0018	-2.5 to 2.5	Pass	



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Report No.: SUCR240400011301

Rev.: 01

Page: 11 of 124

				10	3.7	-0.418	-0.0005	-2.5 to 2.5	Pass			
				30	3.7	-3.797	-0.0046	-2.5 to 2.5	Pass			
				40	3.7	-8.149	-0.0098	-2.5 to 2.5	Pass			
				50	3.7	0.535	0.0006	-2.5 to 2.5	Pass			
836.5	50	0	20	3.135	-4.836	-0.0058	-2.5 to 2.5	Pass				
				3.7	-8.103	-0.0097	-2.5 to 2.5	Pass				
				4.4	-3.941	-0.0047	-2.5 to 2.5	Pass				
							-30	3.7	-0.087	-0.0001	-2.5 to 2.5	Pass
							-20	3.7	-7.628	-0.0091	-2.5 to 2.5	Pass
							-10	3.7	-0.895	-0.0011	-2.5 to 2.5	Pass
							0	3.7	-1.221	-0.0015	-2.5 to 2.5	Pass
							10	3.7	-0.573	-0.0007	-2.5 to 2.5	Pass
							30	3.7	-5.086	-0.0061	-2.5 to 2.5	Pass
							40	3.7	-2.334	-0.0028	-2.5 to 2.5	Pass
							50	3.7	-6.663	-0.0080	-2.5 to 2.5	Pass
			844	50	0	20	3.135	-6.307	-0.0075	-2.5 to 2.5	Pass	
3.7	-8.077	-0.0096					-2.5 to 2.5	Pass				
4.4	-0.448	-0.0005					-2.5 to 2.5	Pass				
							-30	3.7	2.255	0.0027	-2.5 to 2.5	Pass
							-20	3.7	-2.933	-0.0035	-2.5 to 2.5	Pass
							-10	3.7	-6.043	-0.0072	-2.5 to 2.5	Pass
							0	3.7	-4.603	-0.0055	-2.5 to 2.5	Pass
							10	3.7	-8.510	-0.0101	-2.5 to 2.5	Pass
							30	3.7	-5.996	-0.0071	-2.5 to 2.5	Pass
							40	3.7	-0.758	-0.0009	-2.5 to 2.5	Pass
				50	3.7	-0.892	-0.0011	-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	1.100	/	Pass
		836.5	6	0	1.117	/	Pass
		848.3	6	0	1.112	/	Pass
	16QAM	824.7	6	0	1.106	/	Pass
		836.5	6	0	1.109	/	Pass
		848.3	6	0	1.105	/	Pass
3	QPSK	825.5	15	0	2.744	/	Pass
		836.5	15	0	2.754	/	Pass
		847.5	15	0	2.742	/	Pass
	16QAM	825.5	15	0	2.735	/	Pass
		836.5	15	0	2.733	/	Pass
		847.5	15	0	2.740	/	Pass
5	QPSK	826.5	25	0	4.562	/	Pass
		836.5	25	0	4.547	/	Pass
		846.5	25	0	4.558	/	Pass
	16QAM	826.5	25	0	4.551	/	Pass
		836.5	25	0	4.568	/	Pass
		846.5	25	0	4.552	/	Pass
10	QPSK	829	50	0	9.092	/	Pass
		836.5	50	0	9.035	/	Pass
		844	50	0	9.096	/	Pass
	16QAM	829	50	0	9.093	/	Pass
		836.5	50	0	9.035	/	Pass
		844	50	0	9.064	/	Pass



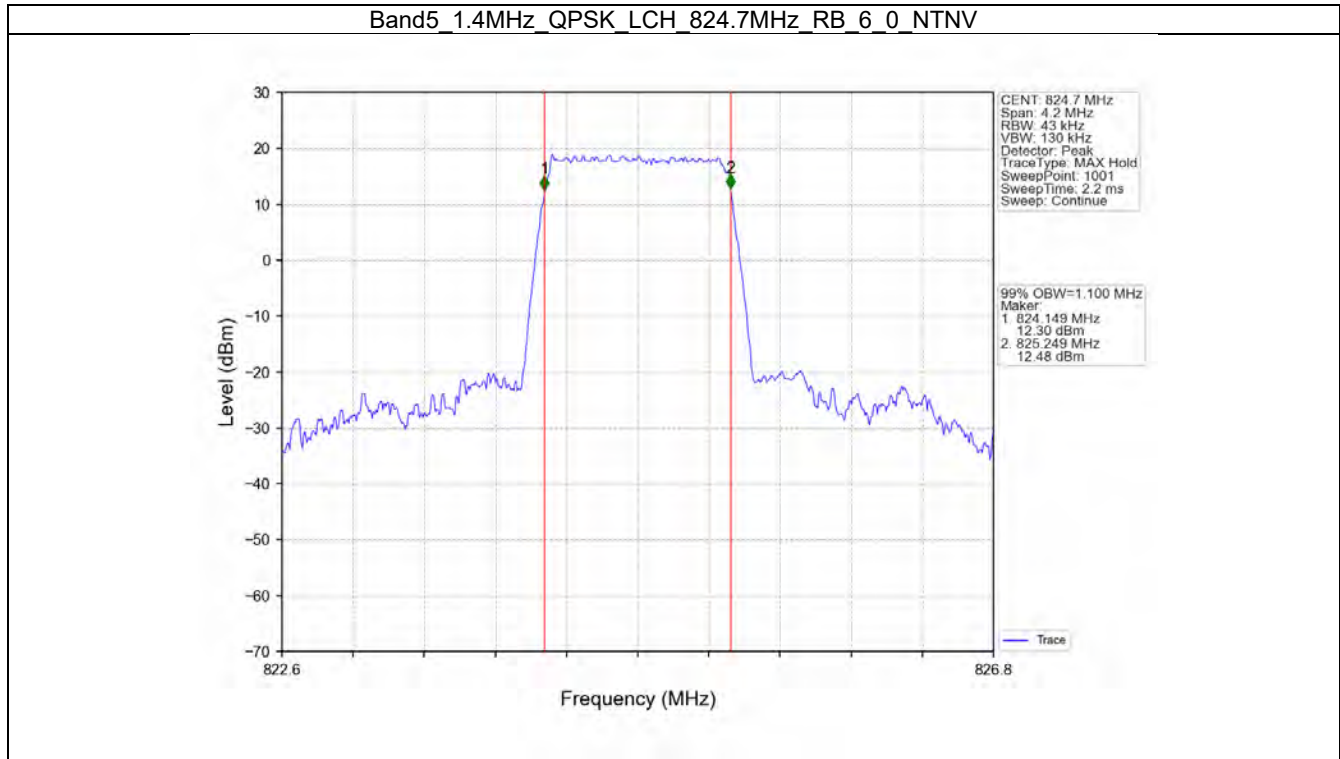
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3.1.2 Test Graph



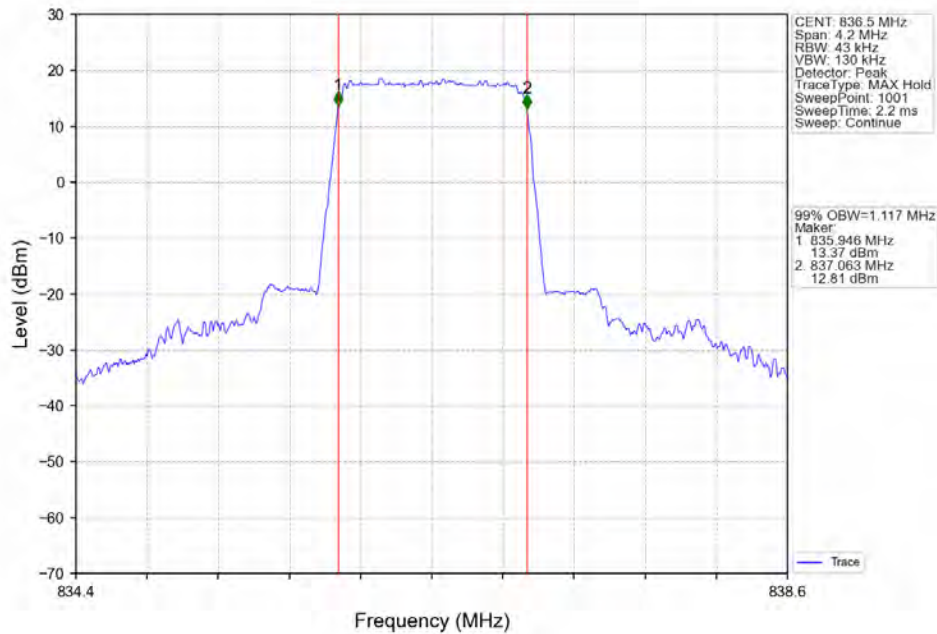
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Band5 1.4MHz QPSK MCH 836.5MHz RB 6_0 NTV



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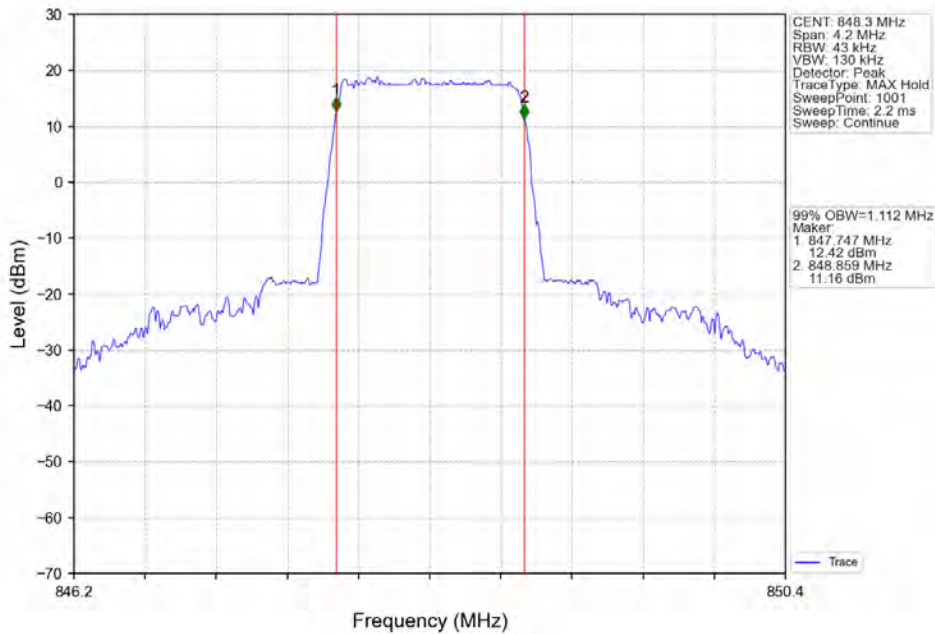
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



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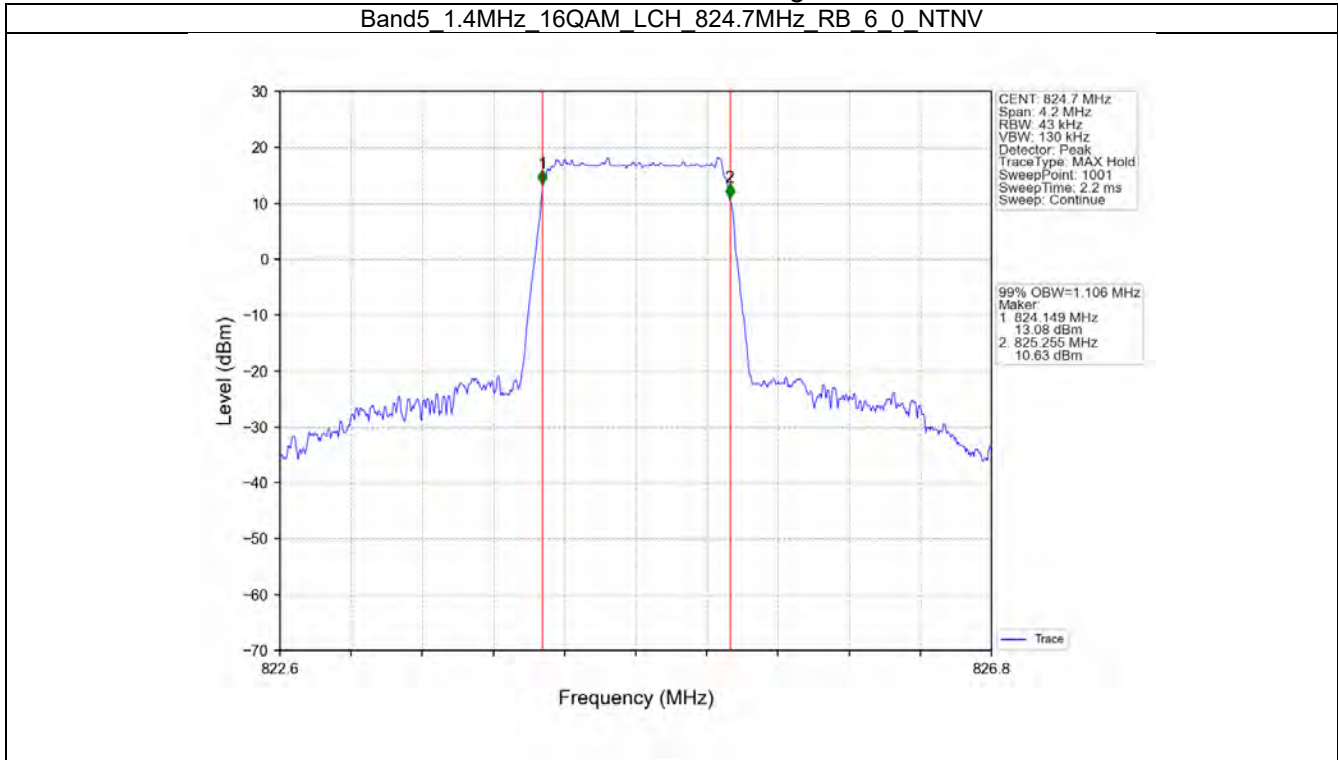
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Report No.: SUCR240400011301

Rev.: 01

Page: 16 of 124

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



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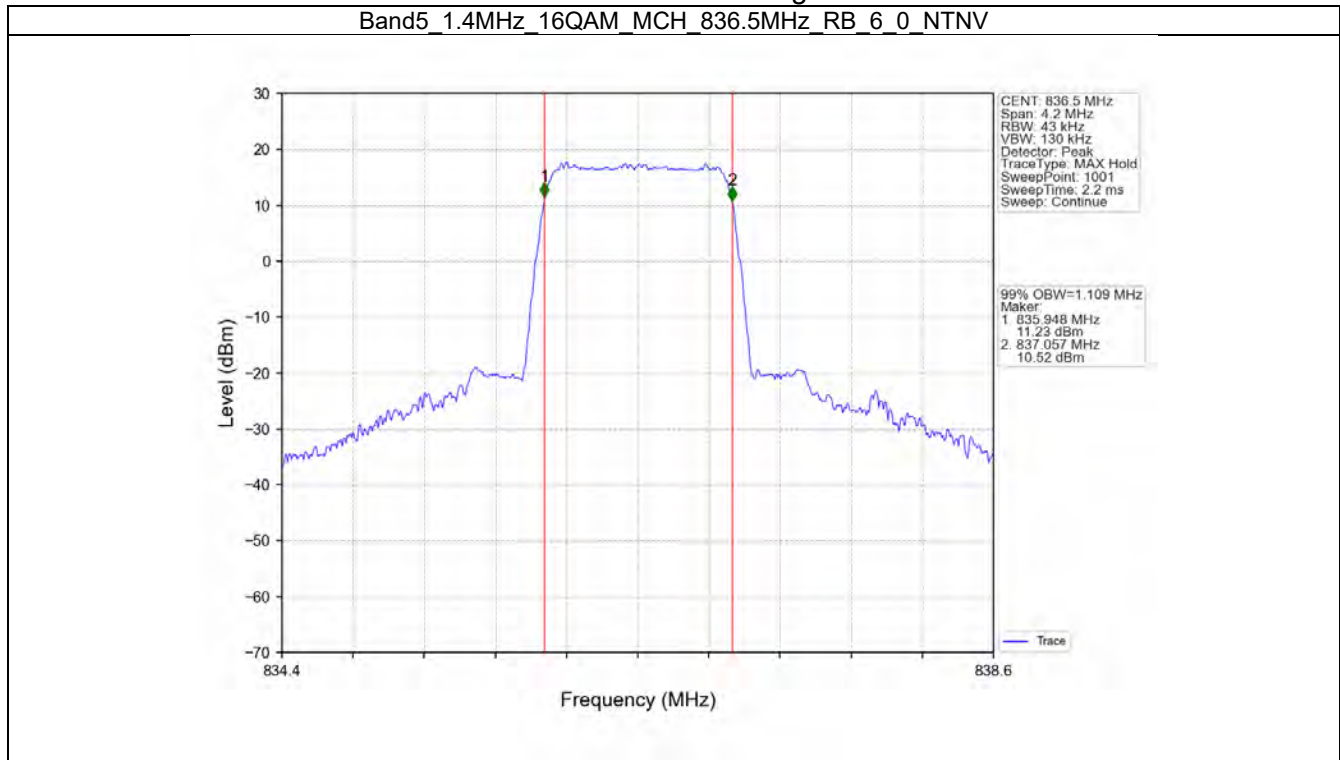
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Rev.: 01

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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



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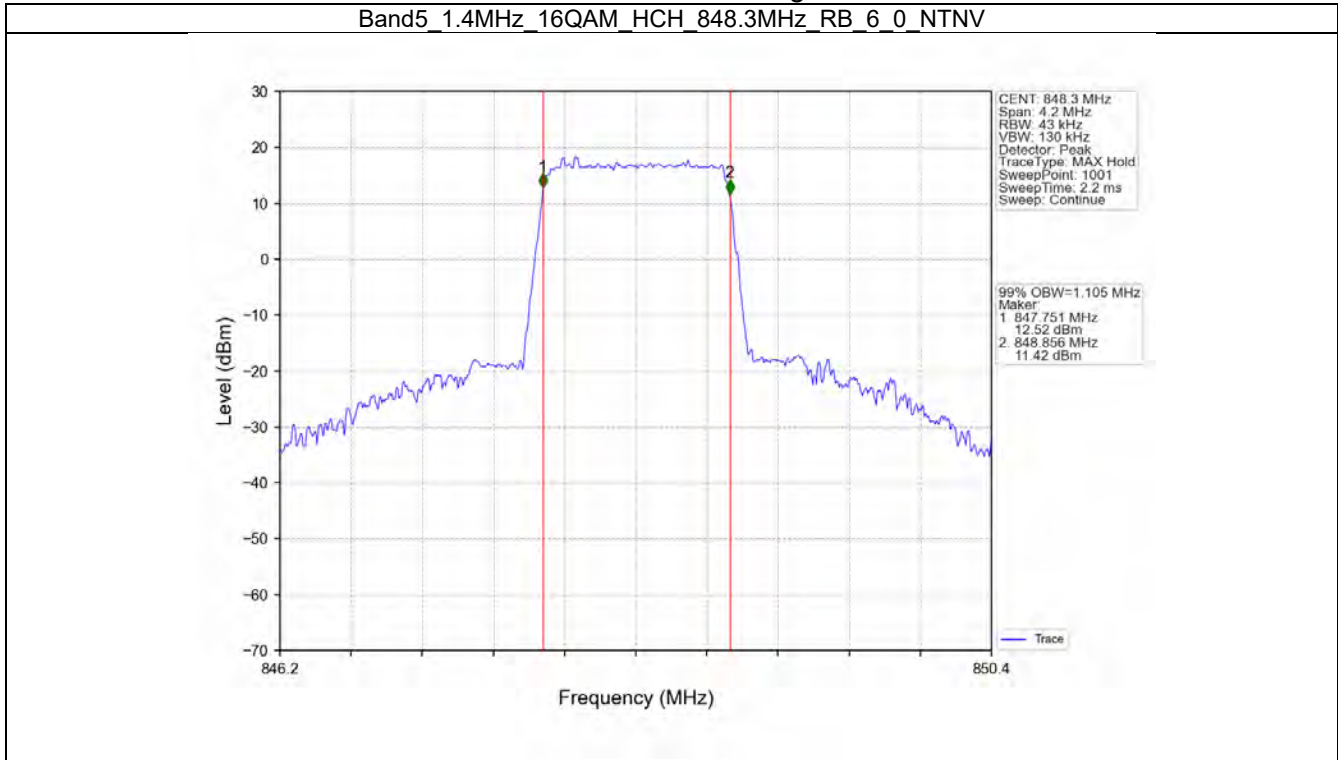
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Report No.: SUCR240400011301

Rev.: 01

Page: 18 of 124

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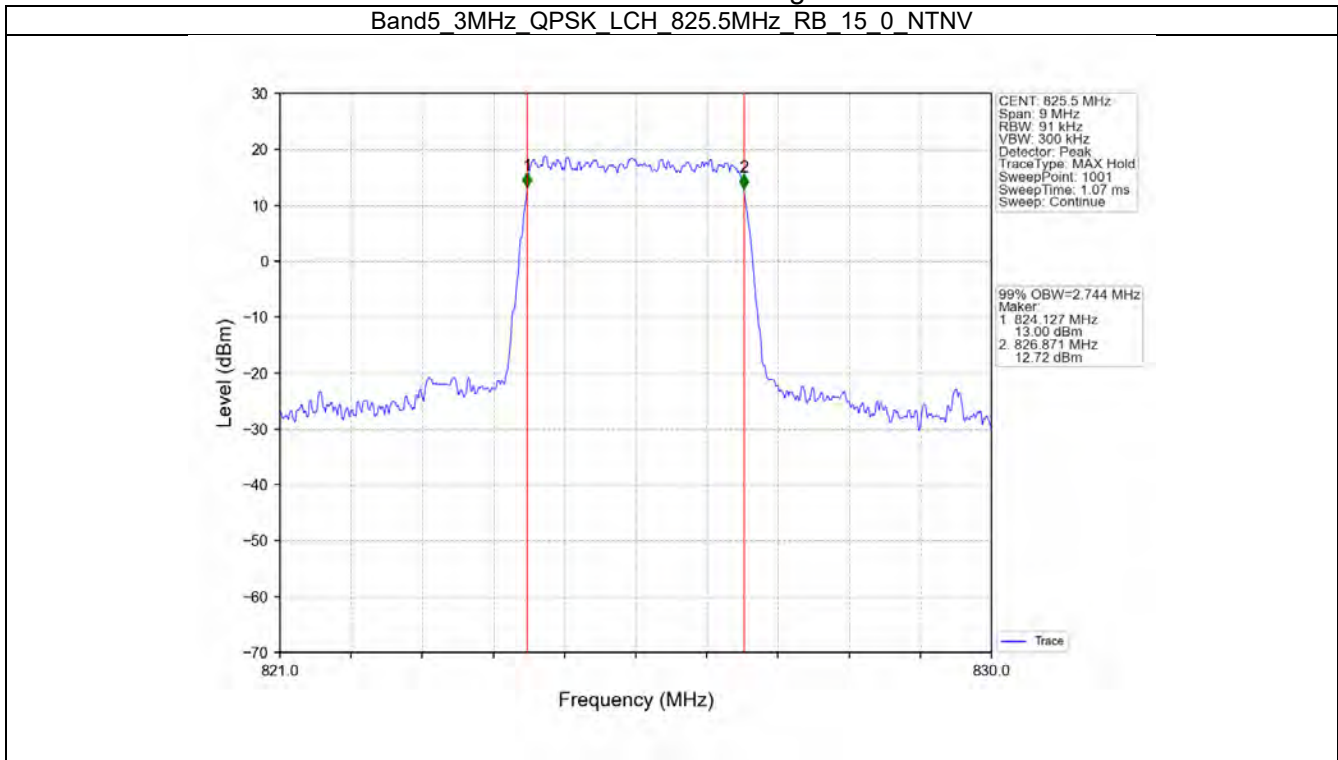
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Report No.: SUCR240400011301

Rev.: 01

Page: 19 of 124

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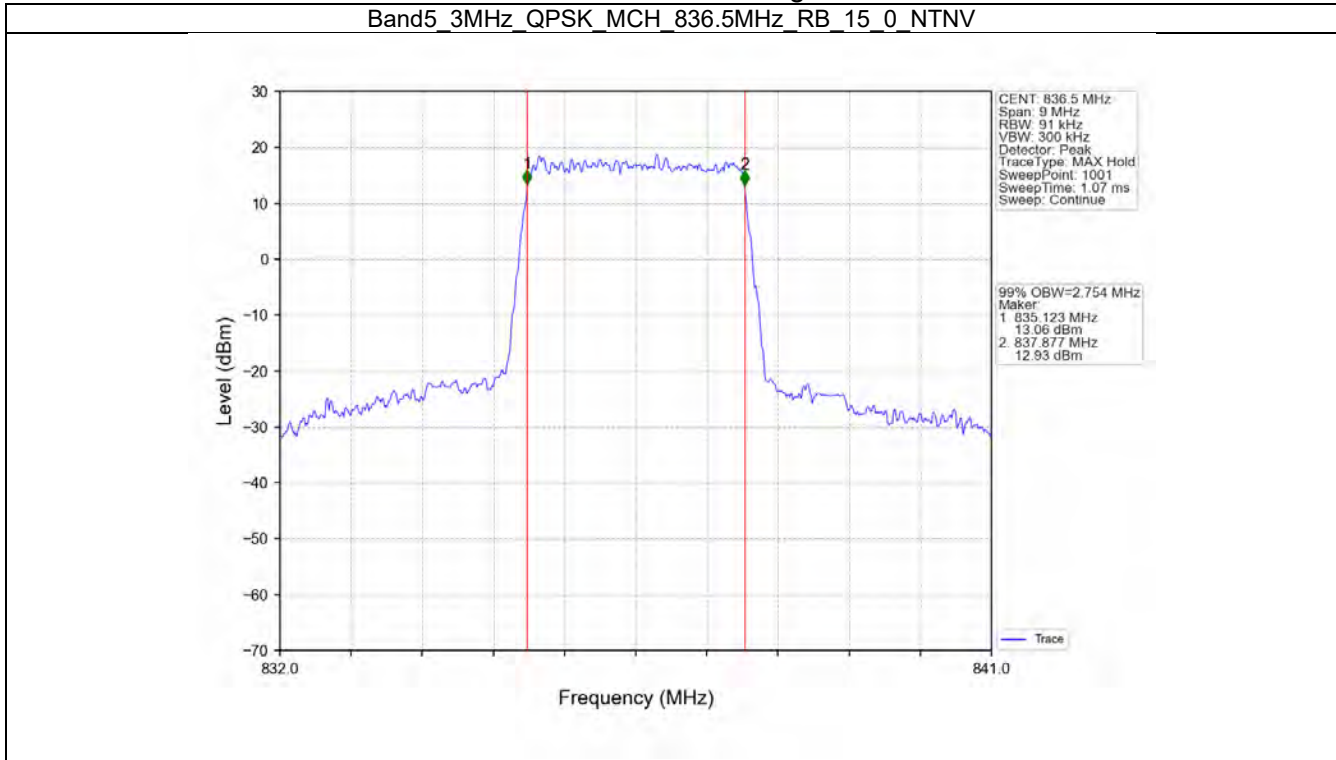
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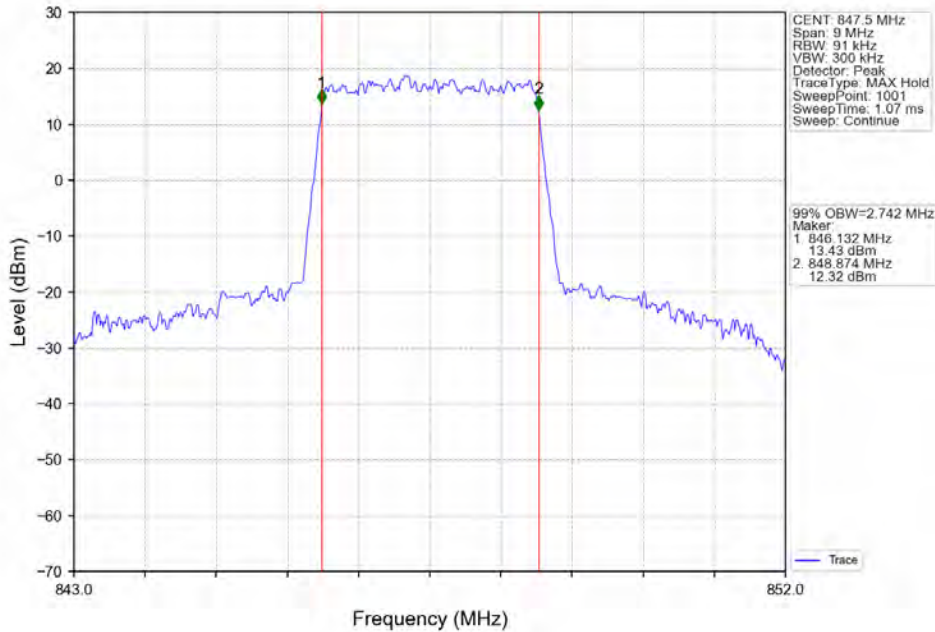
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Report No.: SUCR240400011301

Rev.: 01

Page: 21 of 124

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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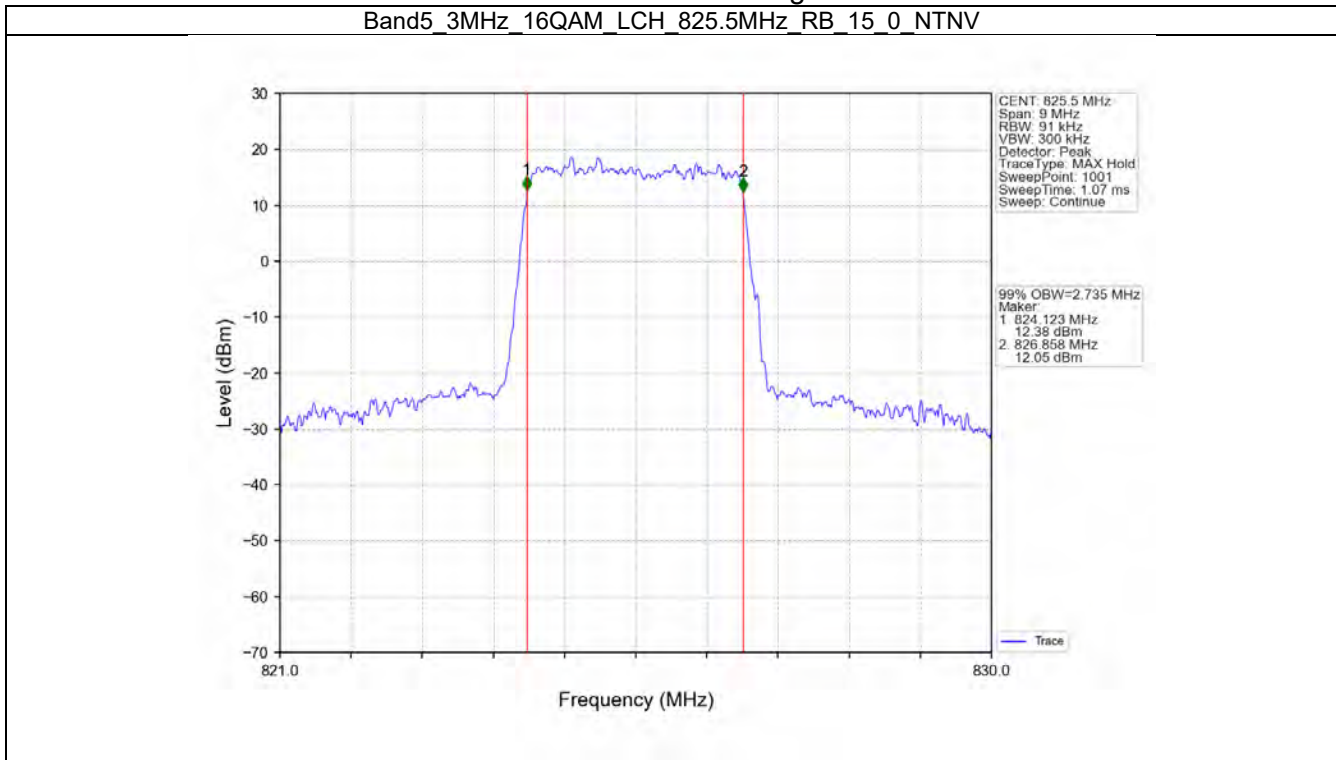
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Report No.: SUCR240400011301

Rev.: 01

Page: 22 of 124

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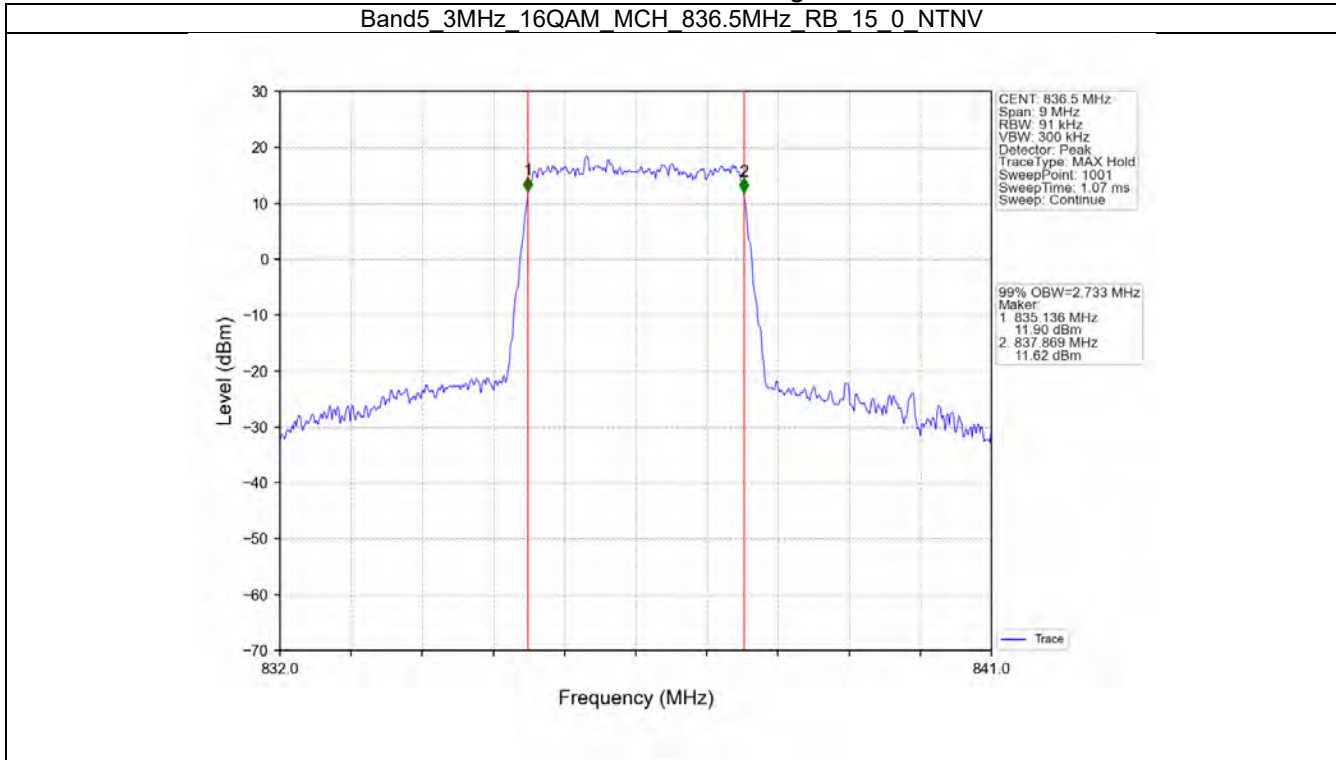
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Report No.: SUCR240400011301

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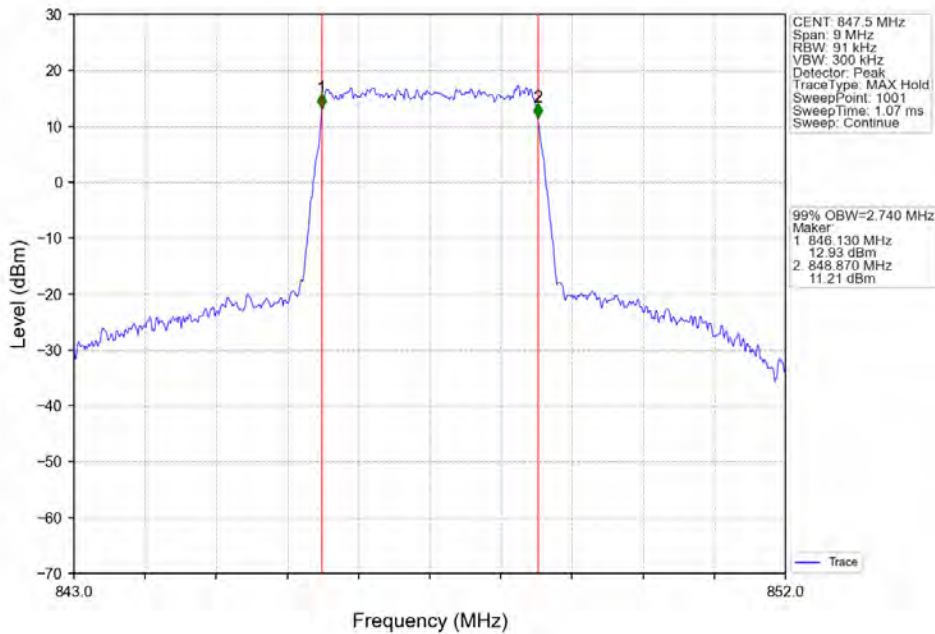
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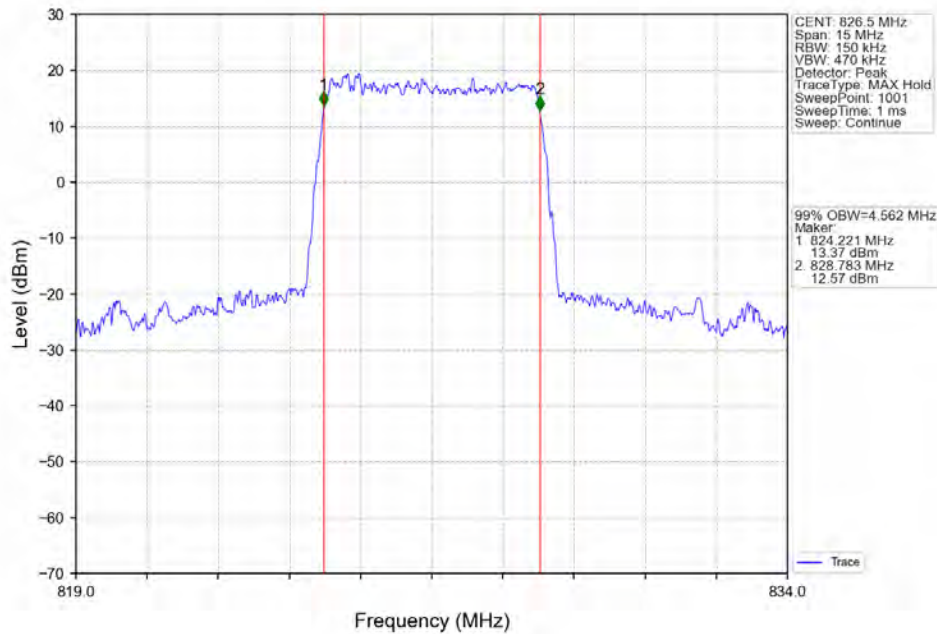
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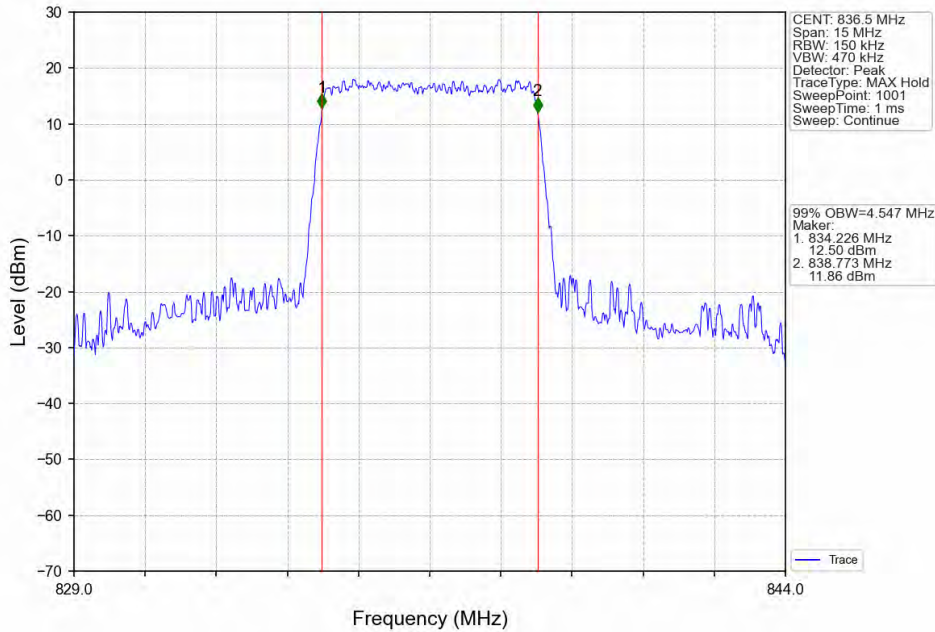
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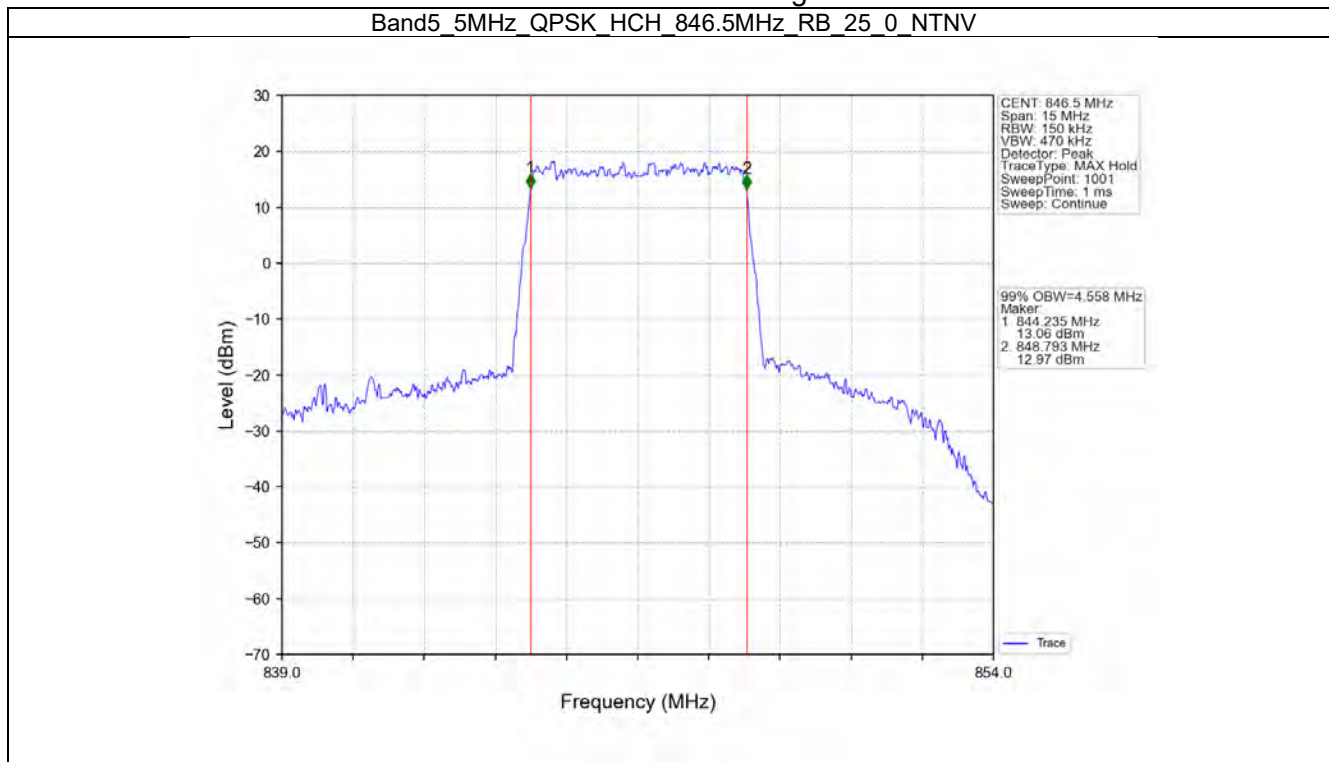
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Rev.: 01

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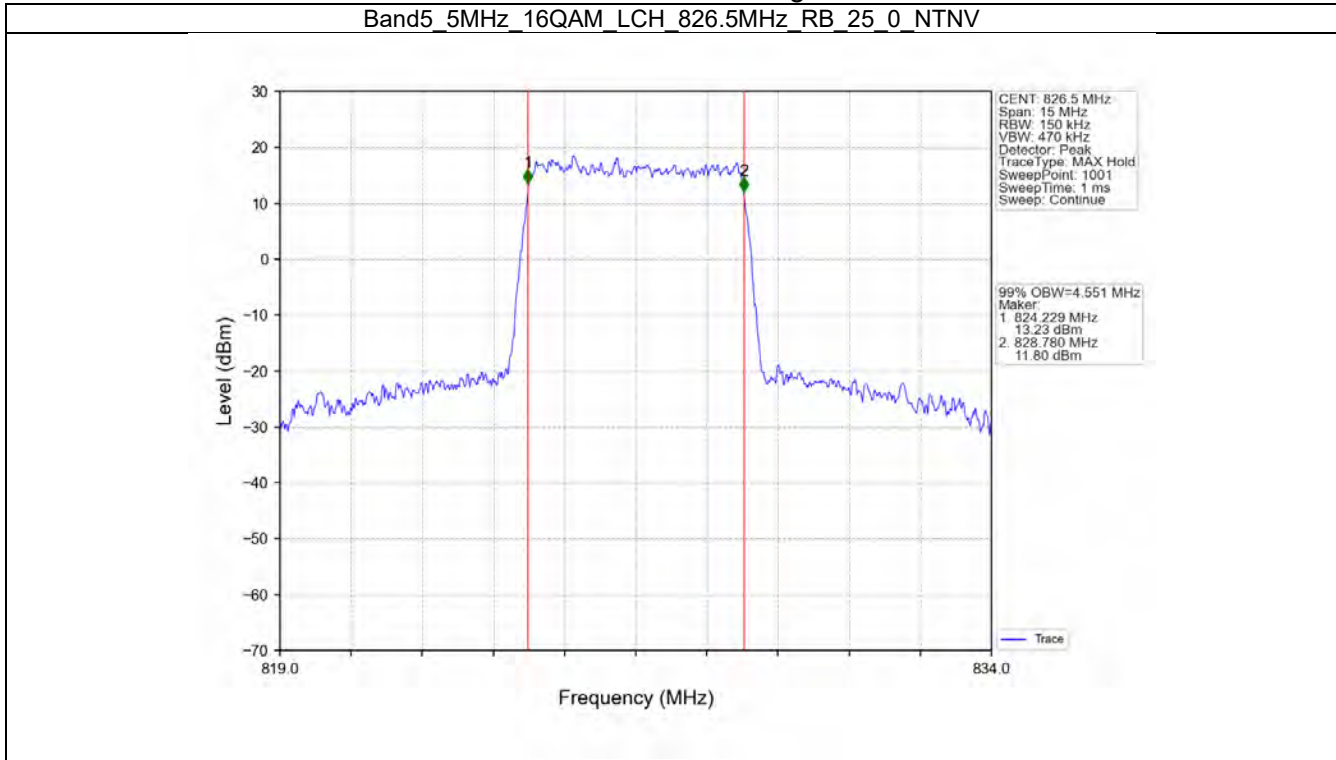
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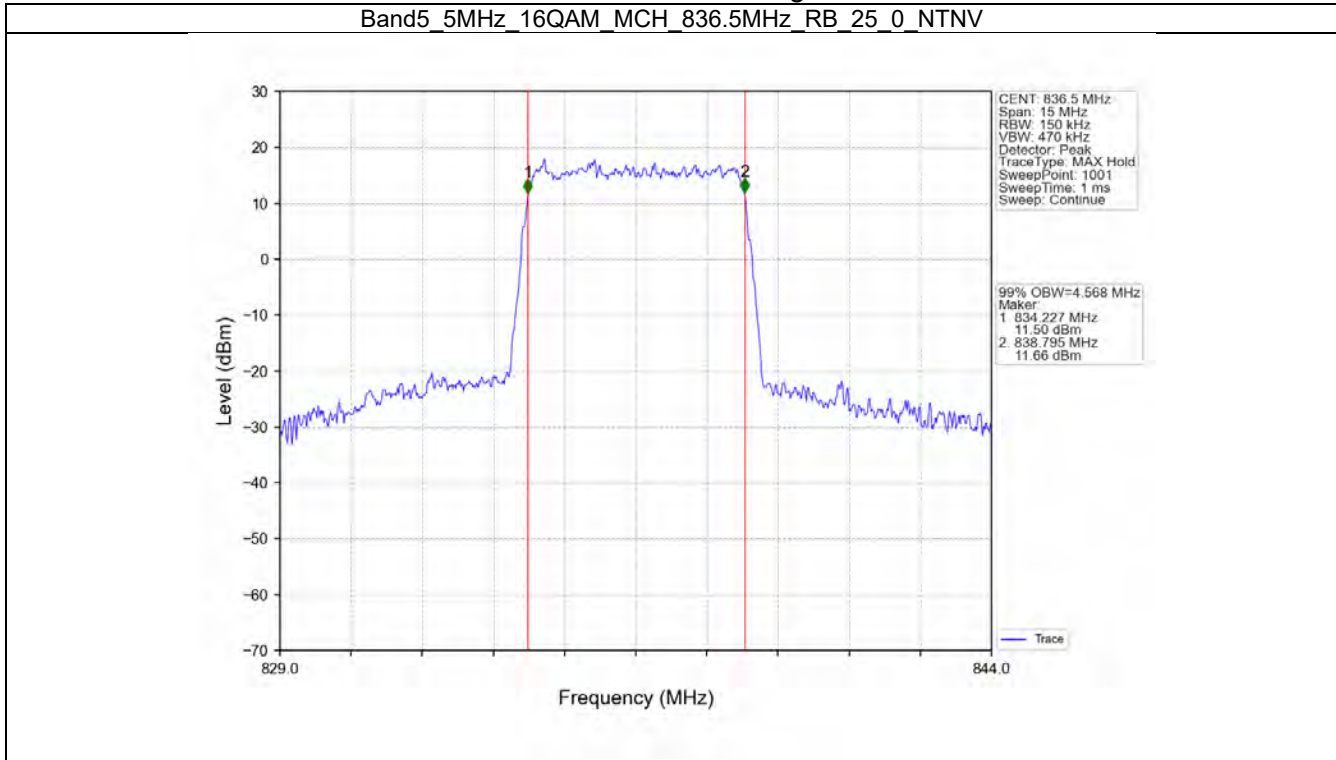
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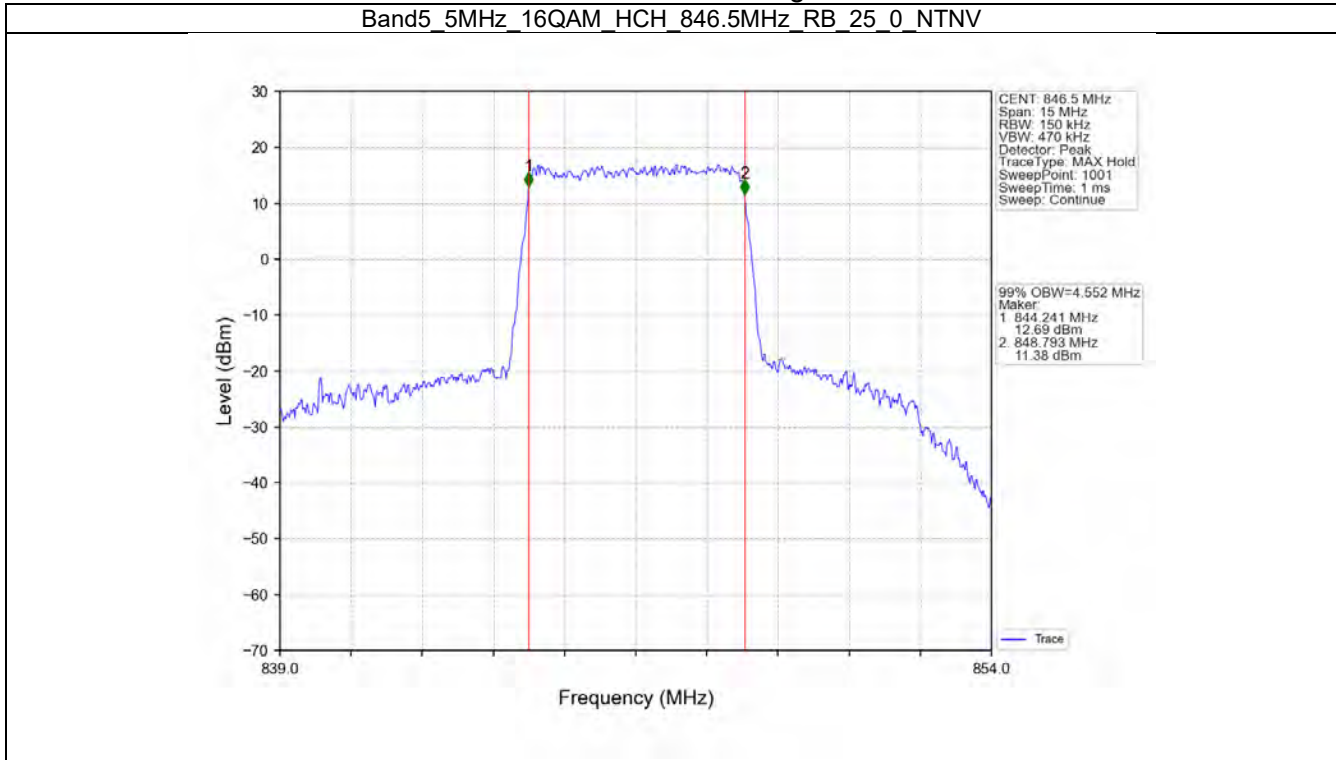
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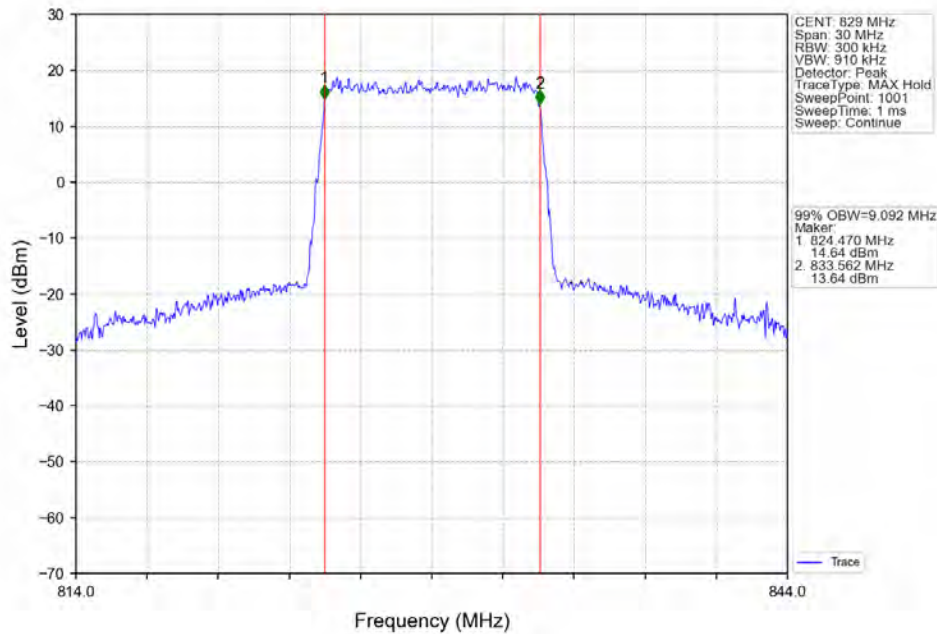
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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



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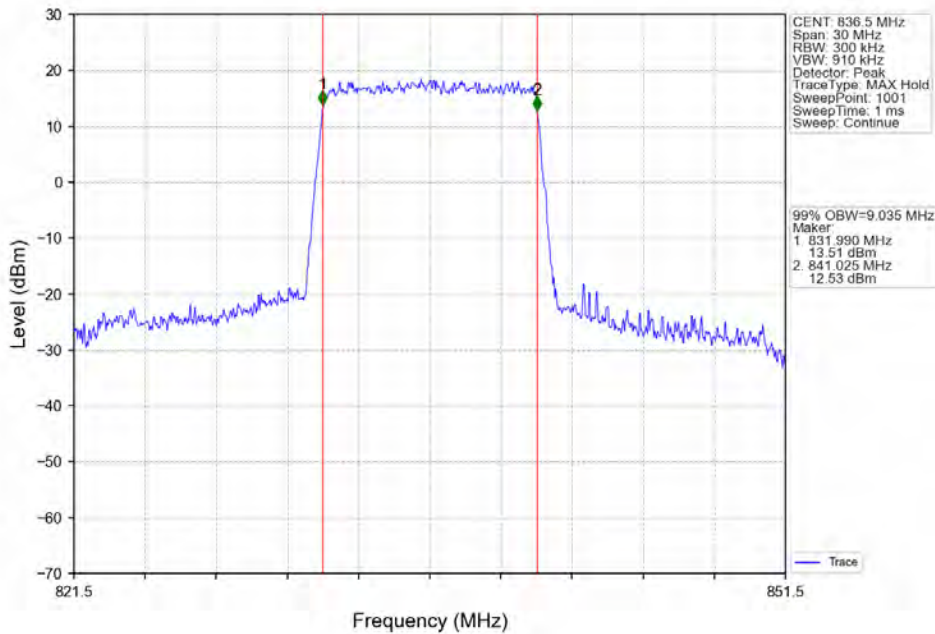
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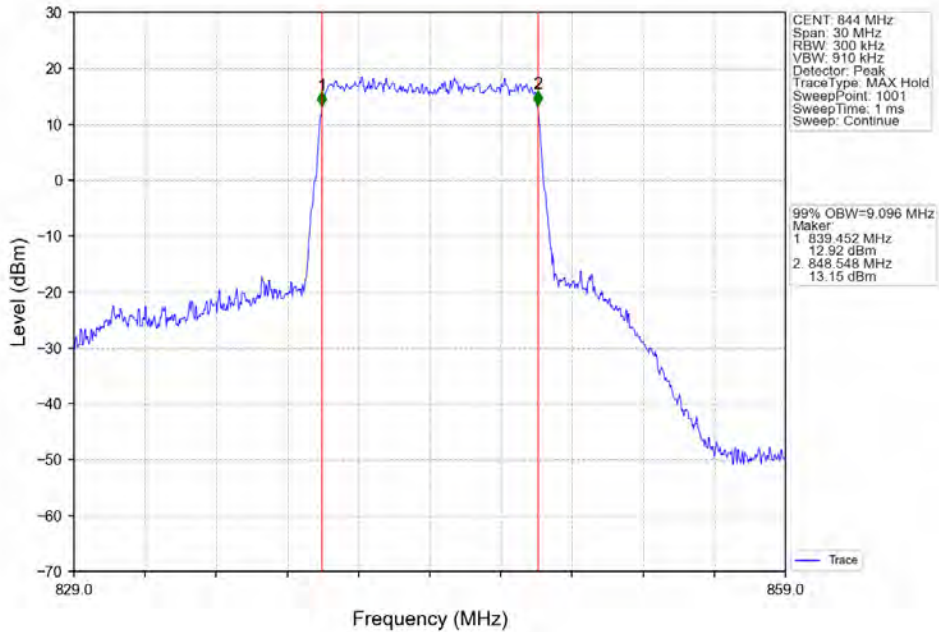
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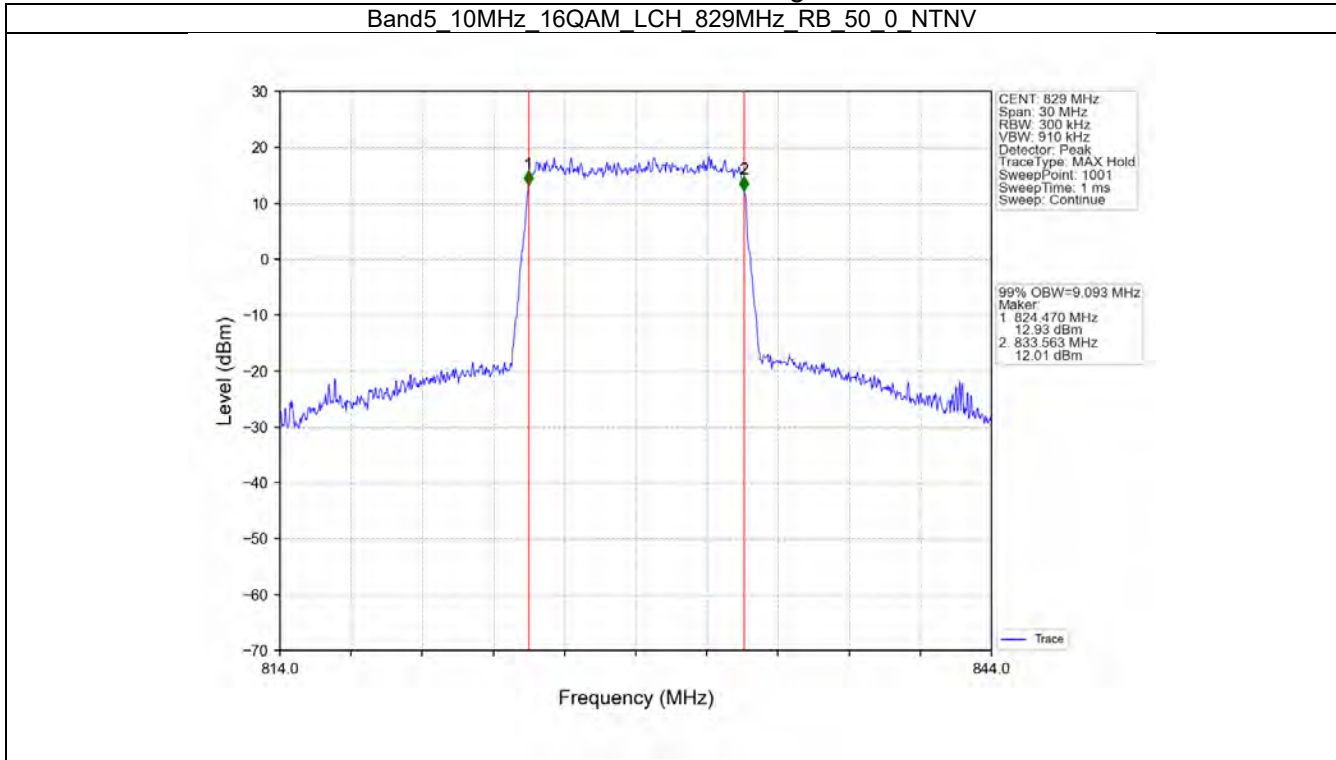
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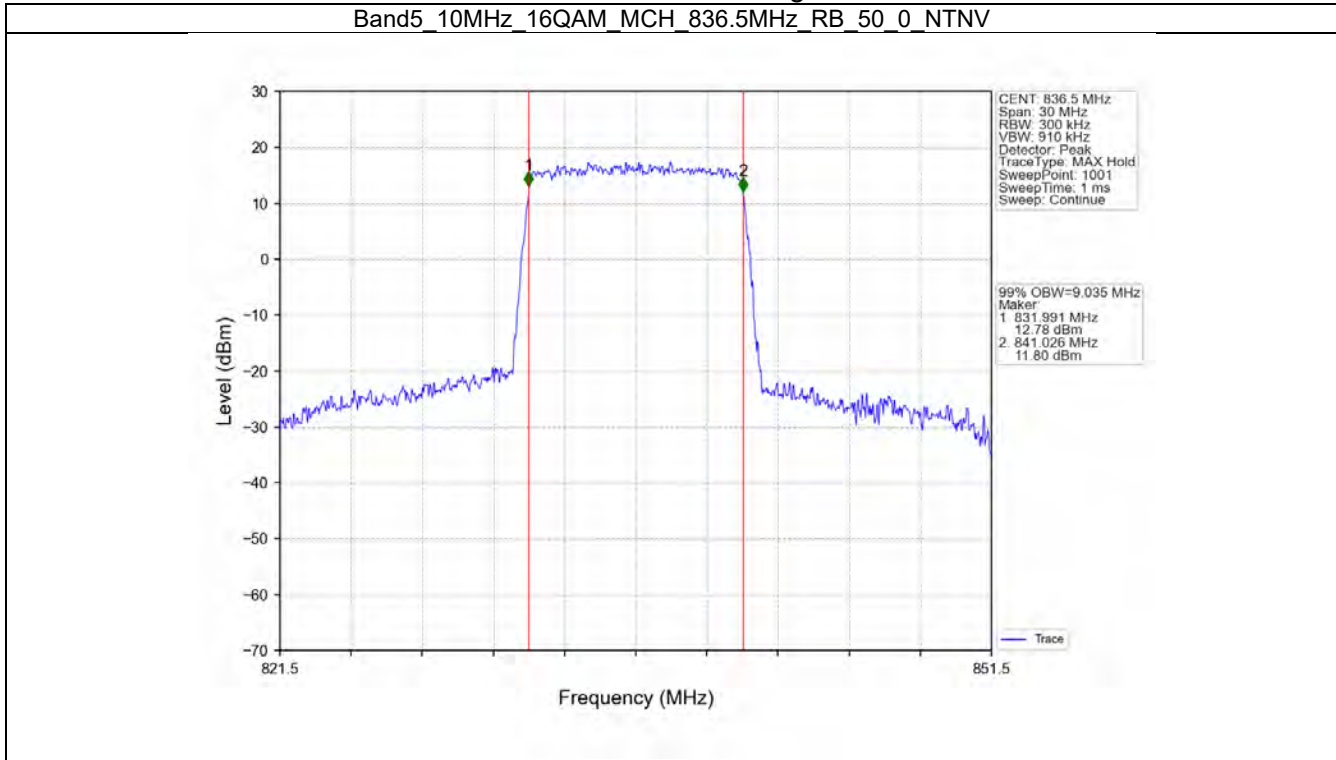
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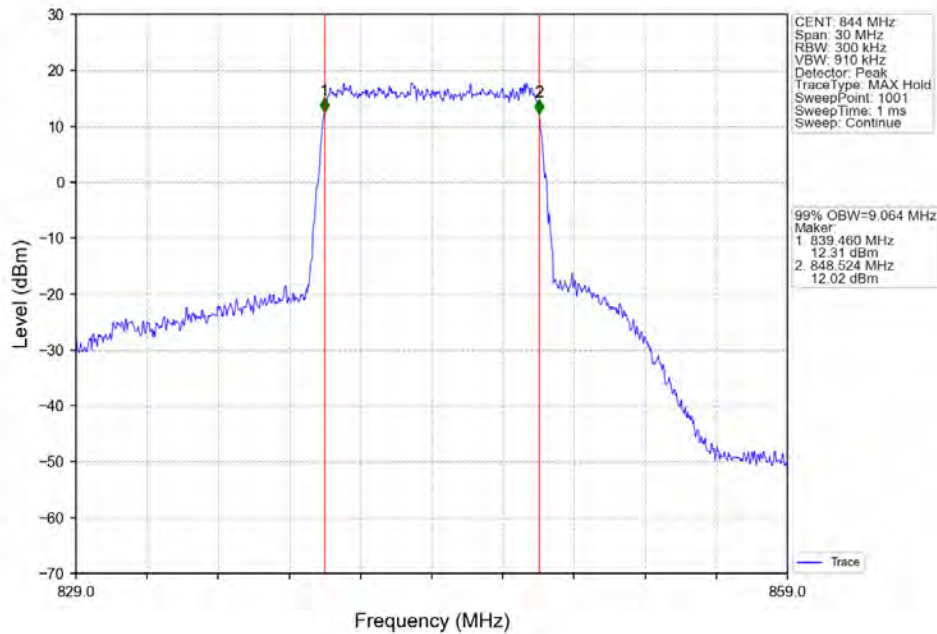
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3.2 Band5_XDB

3.2.1 Test Result

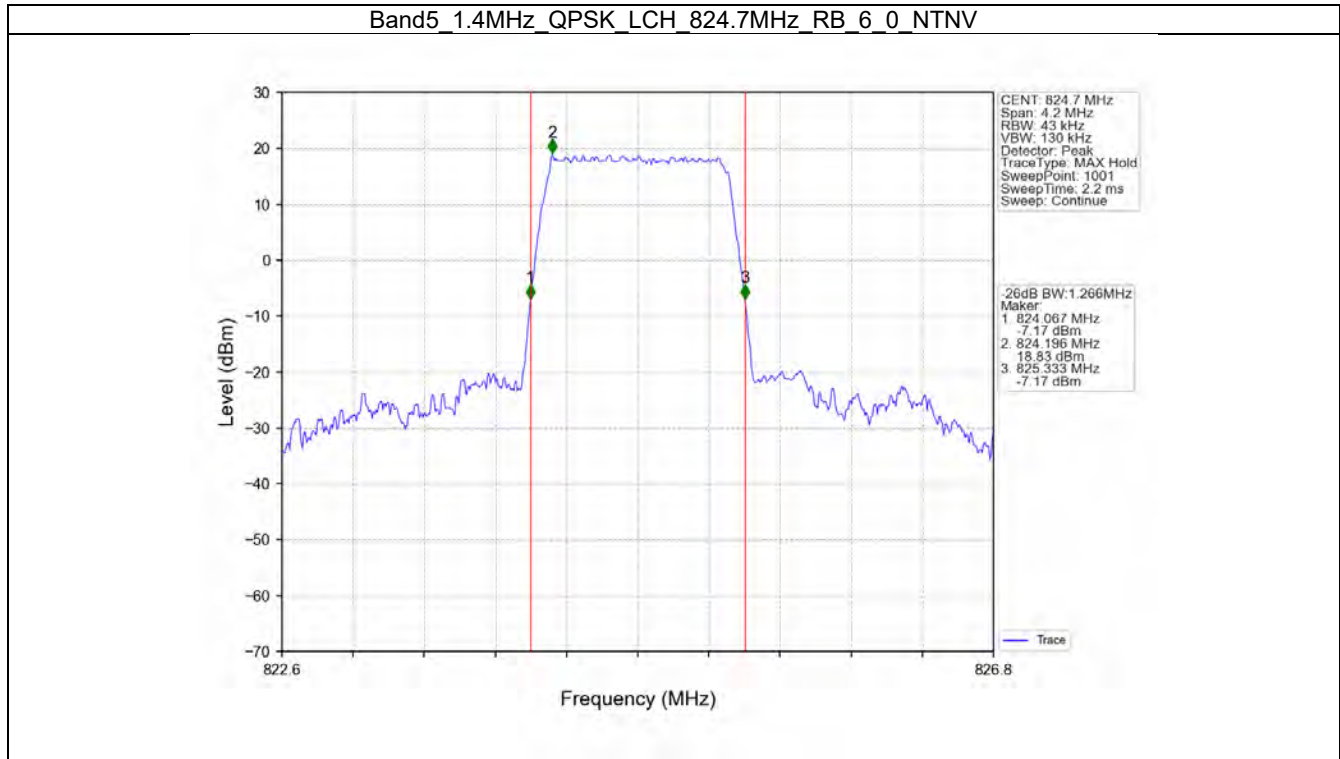
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.266	/	Pass
		836.5	6	0	1.263	/	Pass
		848.3	6	0	1.272	/	Pass
	16QAM	824.7	6	0	1.254	/	Pass
		836.5	6	0	1.267	/	Pass
		848.3	6	0	1.253	/	Pass
3	QPSK	825.5	15	0	3.042	/	Pass
		836.5	15	0	3.079	/	Pass
		847.5	15	0	3.073	/	Pass
	16QAM	825.5	15	0	3.083	/	Pass
		836.5	15	0	3.052	/	Pass
		847.5	15	0	3.076	/	Pass
5	QPSK	826.5	25	0	5.064	/	Pass
		836.5	25	0	5.053	/	Pass
		846.5	25	0	5.067	/	Pass
	16QAM	826.5	25	0	5.029	/	Pass
		836.5	25	0	5.051	/	Pass
		846.5	25	0	5.050	/	Pass
10	QPSK	829	50	0	9.970	/	Pass
		836.5	50	0	9.957	/	Pass
		844	50	0	10.035	/	Pass
	16QAM	829	50	0	9.967	/	Pass
		836.5	50	0	9.952	/	Pass
		844	50	0	10.004	/	Pass



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3.2.2 Test Graph



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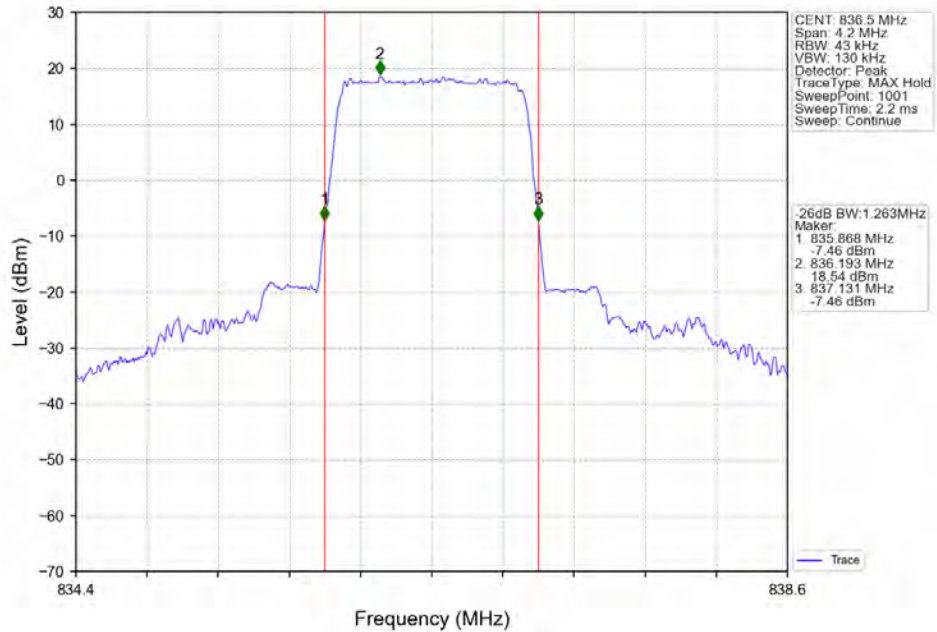
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Band5 1.4MHz QPSK MCH 836.5MHz RB 6_0 NTN



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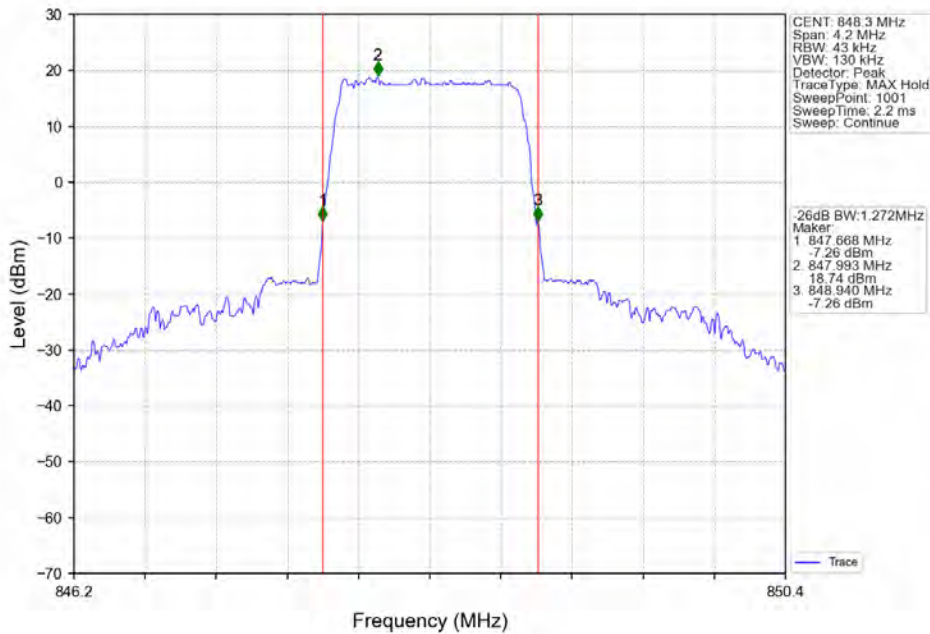
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



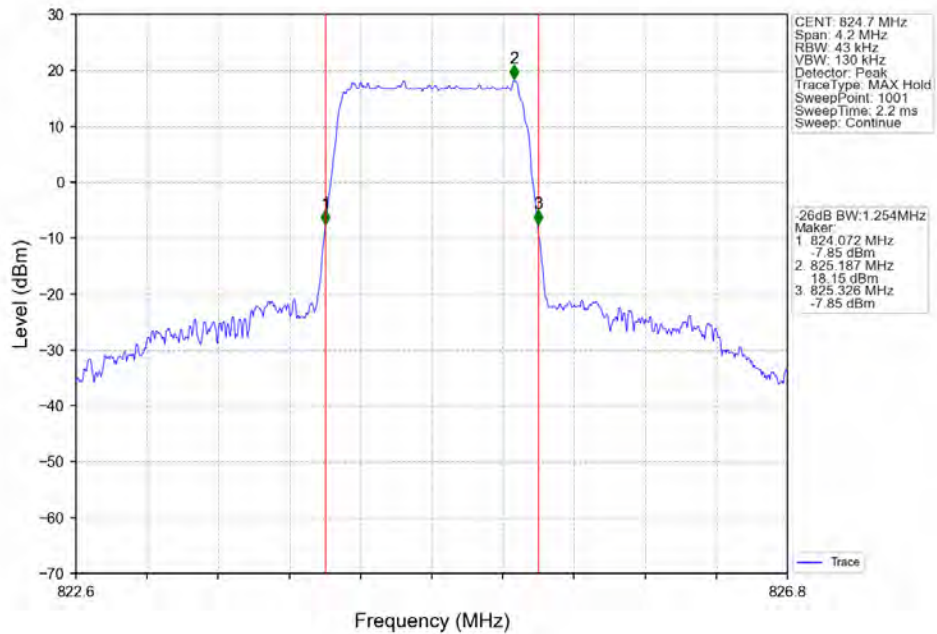
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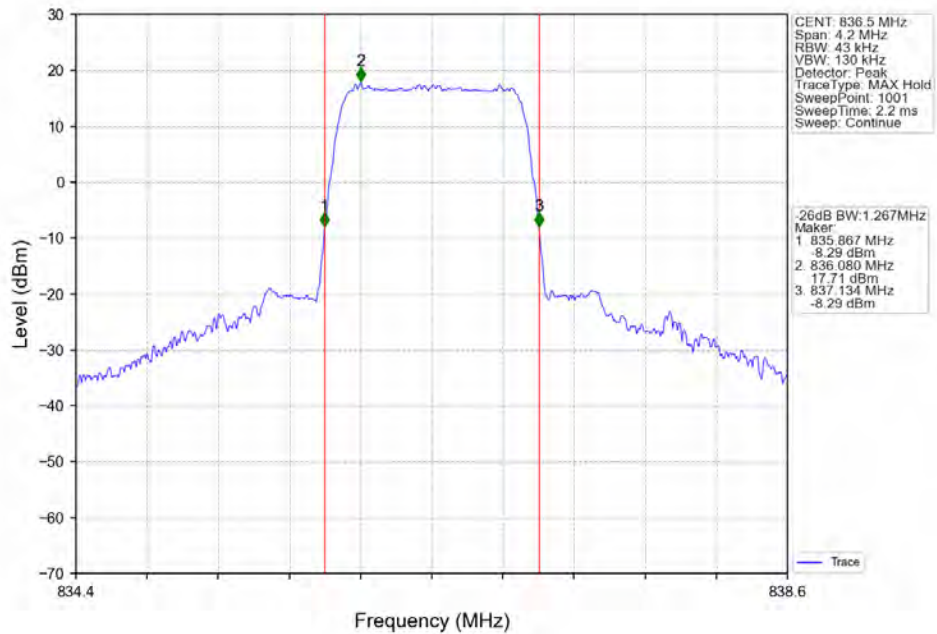
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Rev.: 01

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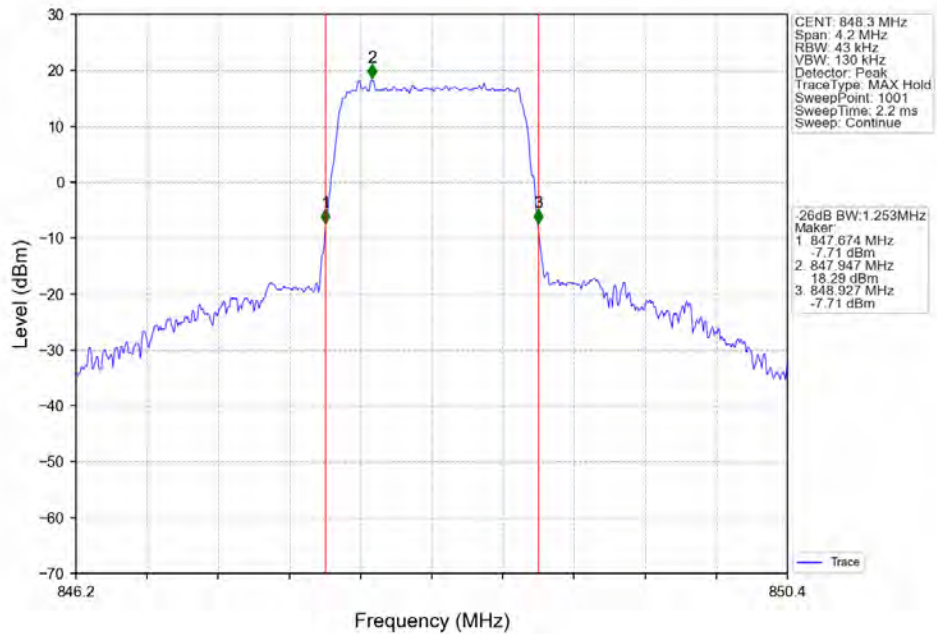
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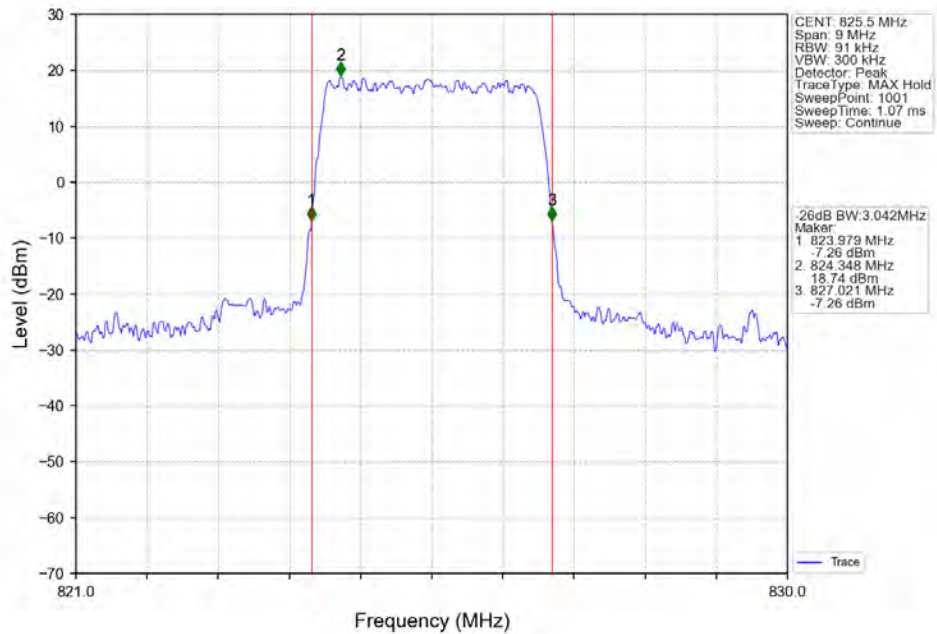
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Rev.: 01

Page: 44 of 124

Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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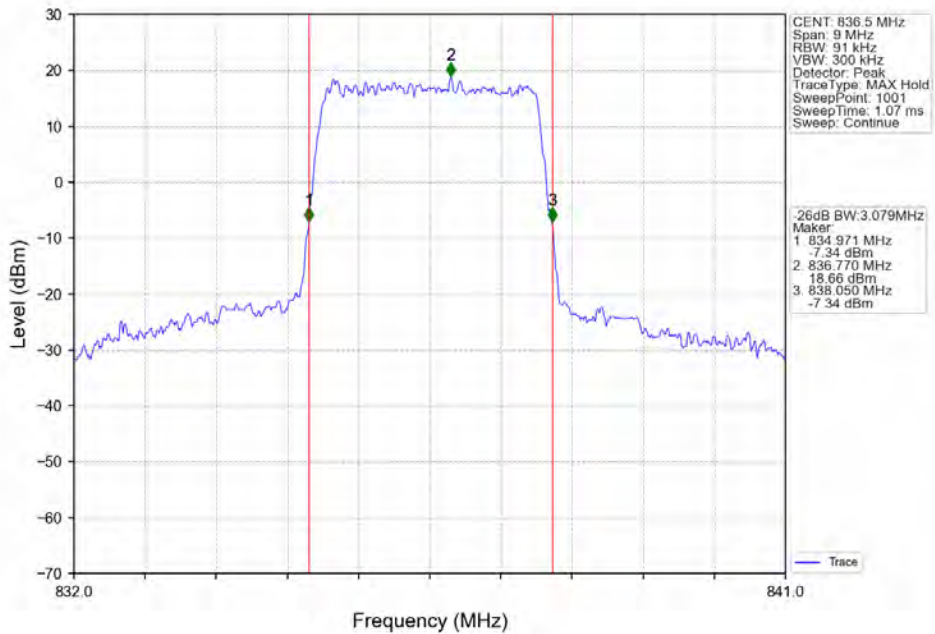
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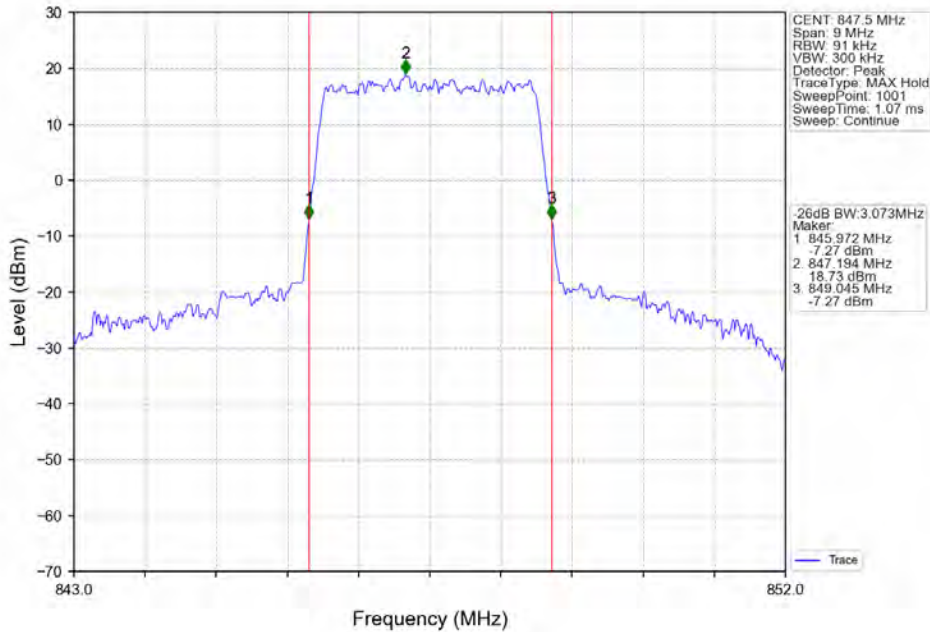
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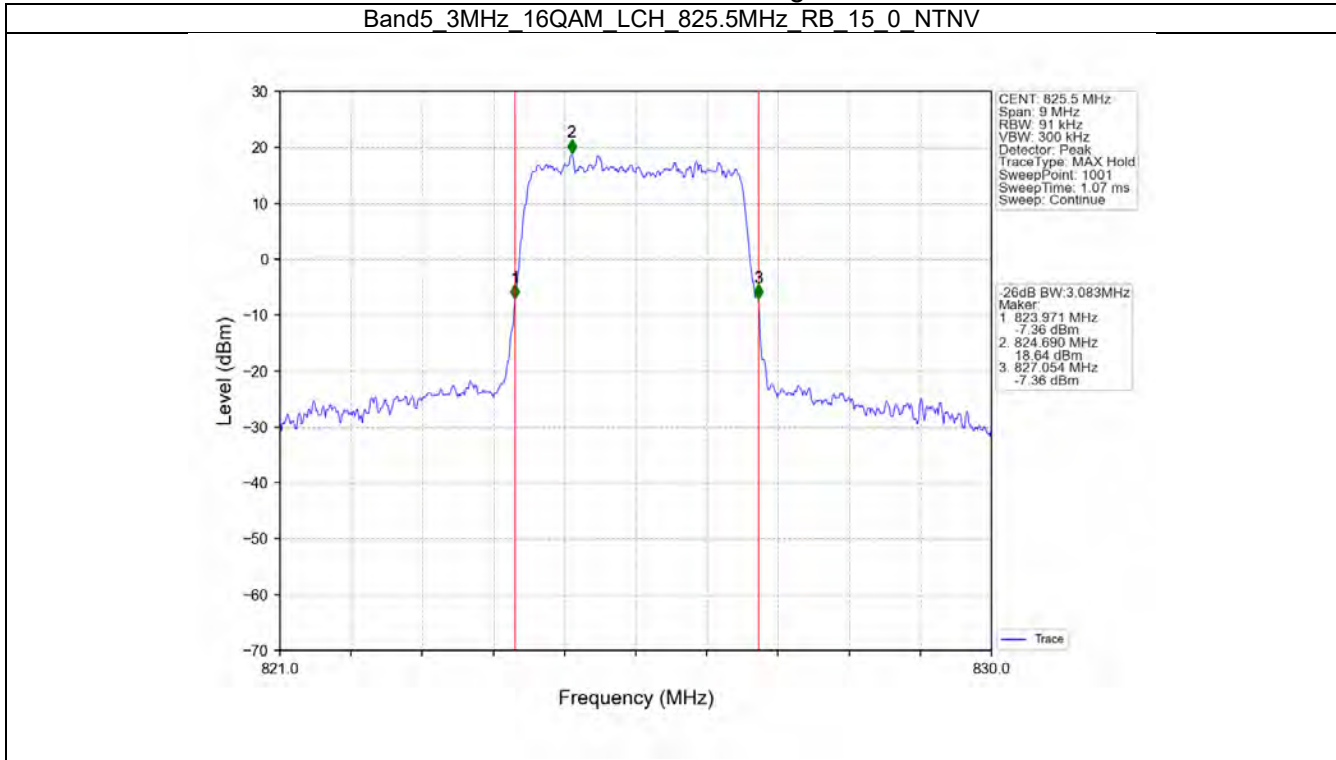
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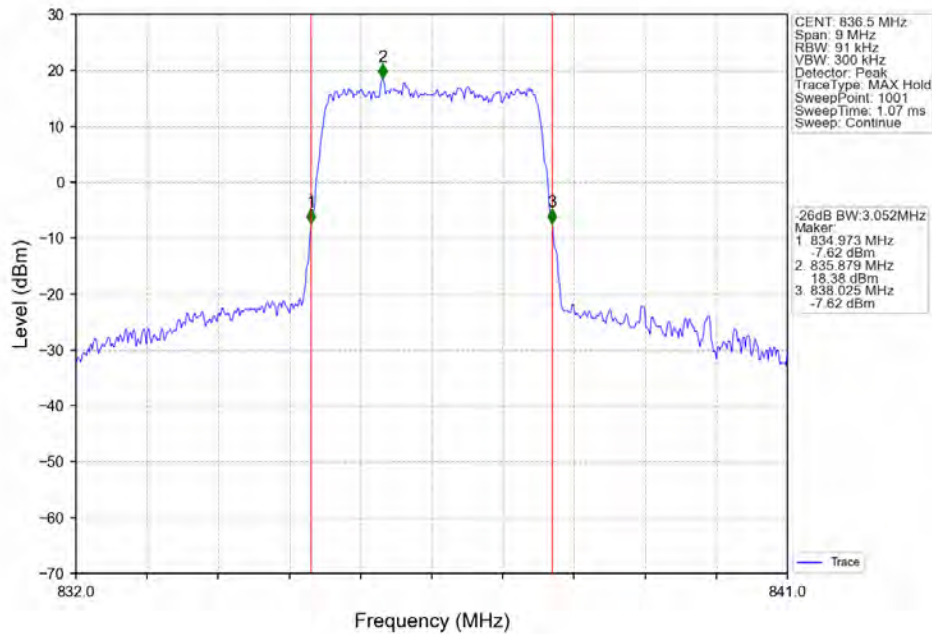
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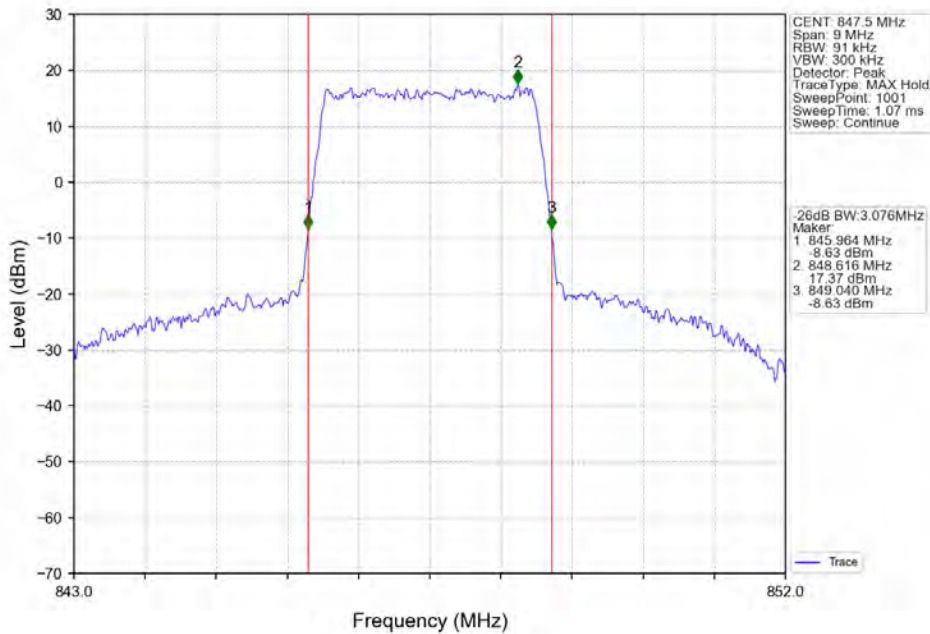
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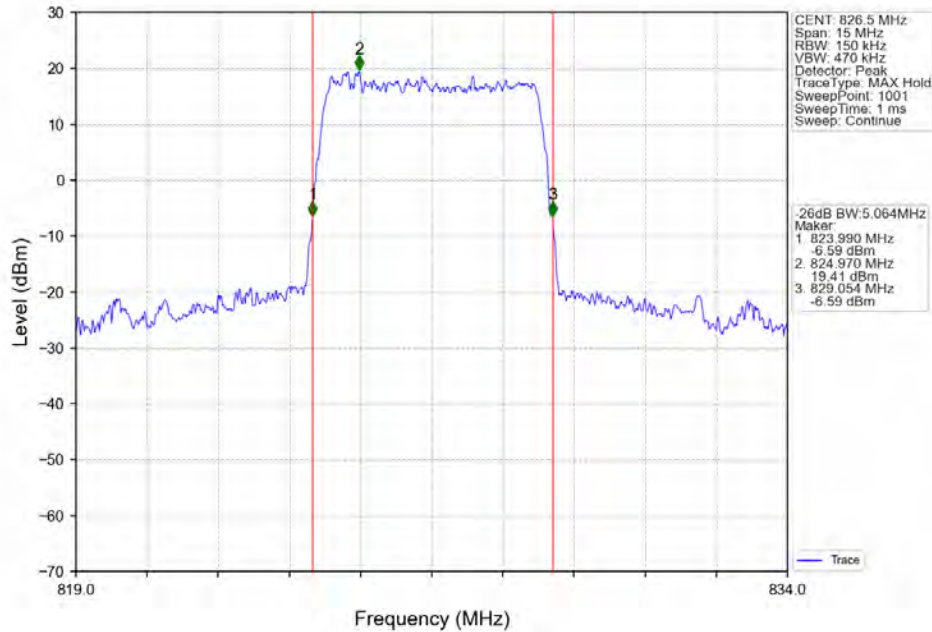
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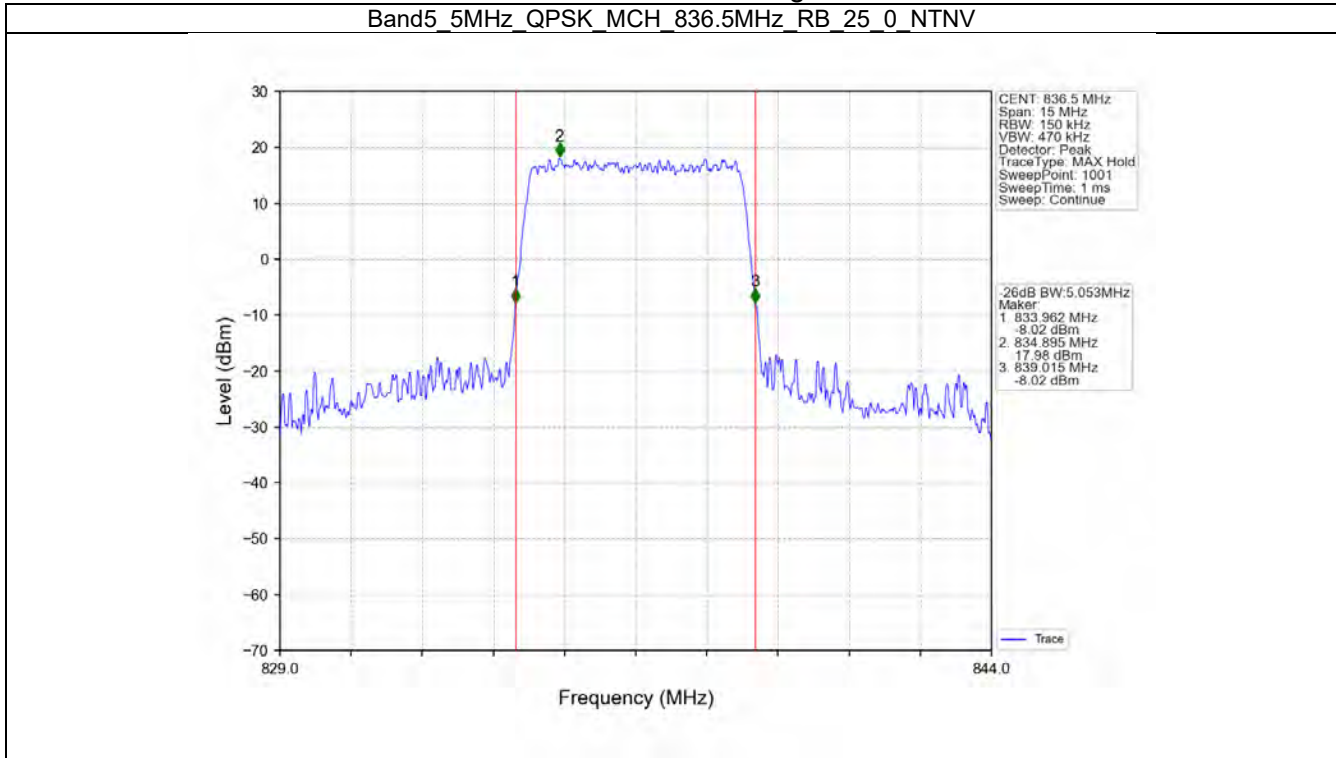
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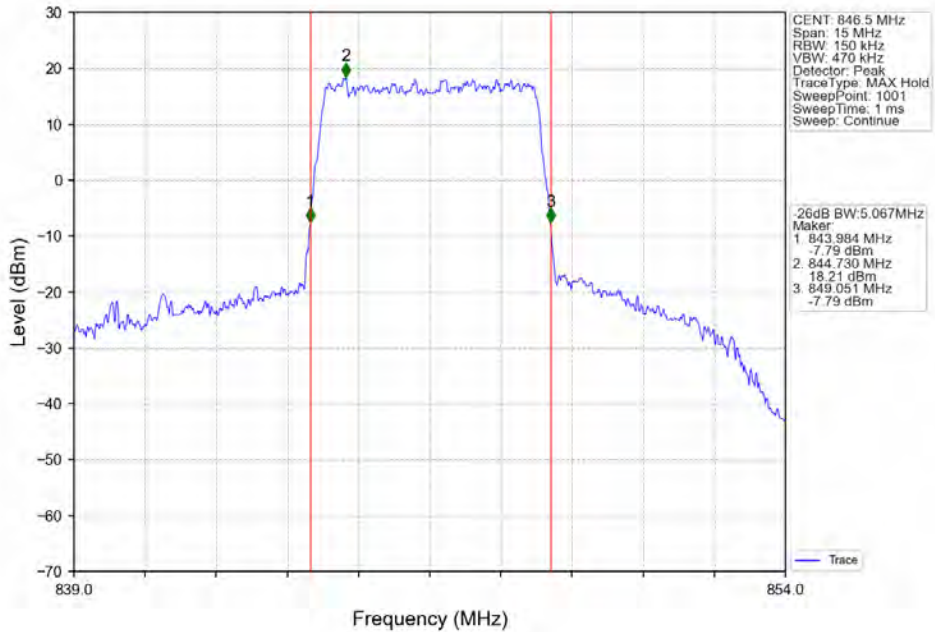
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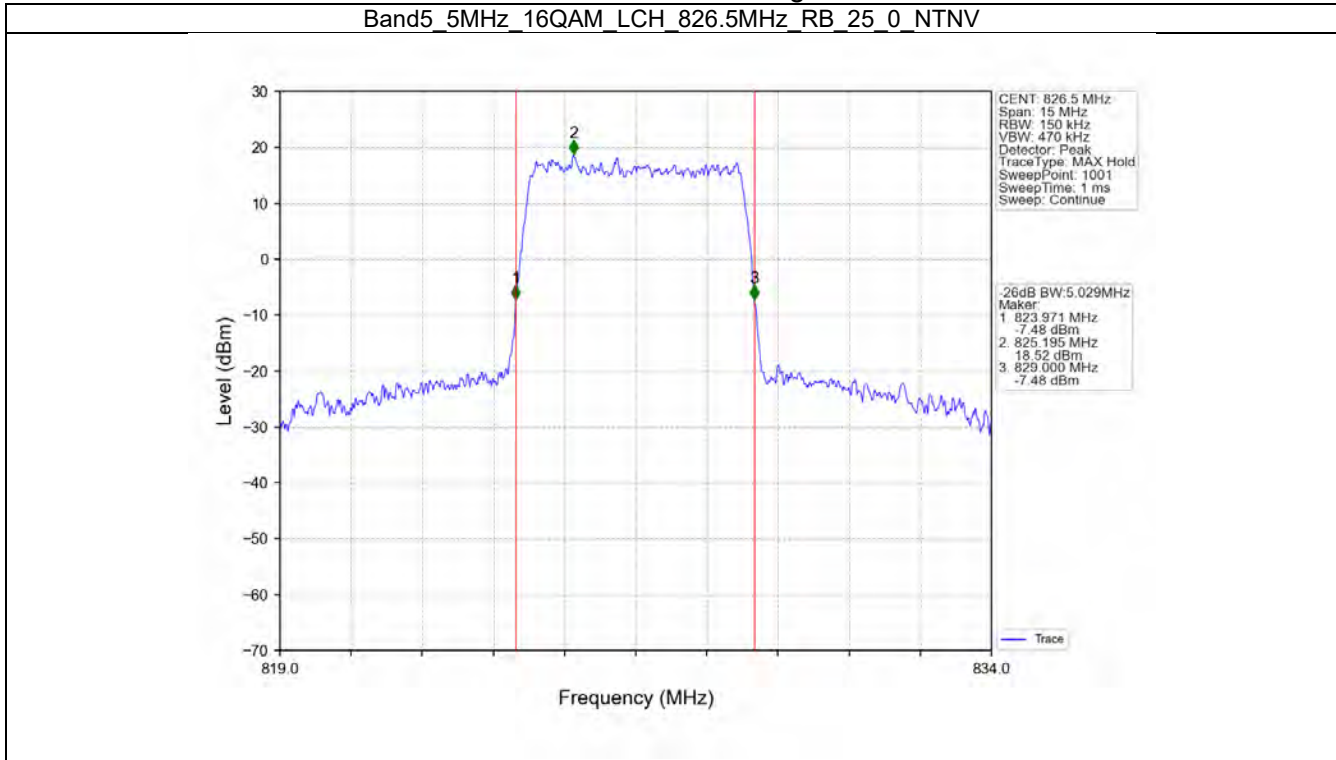


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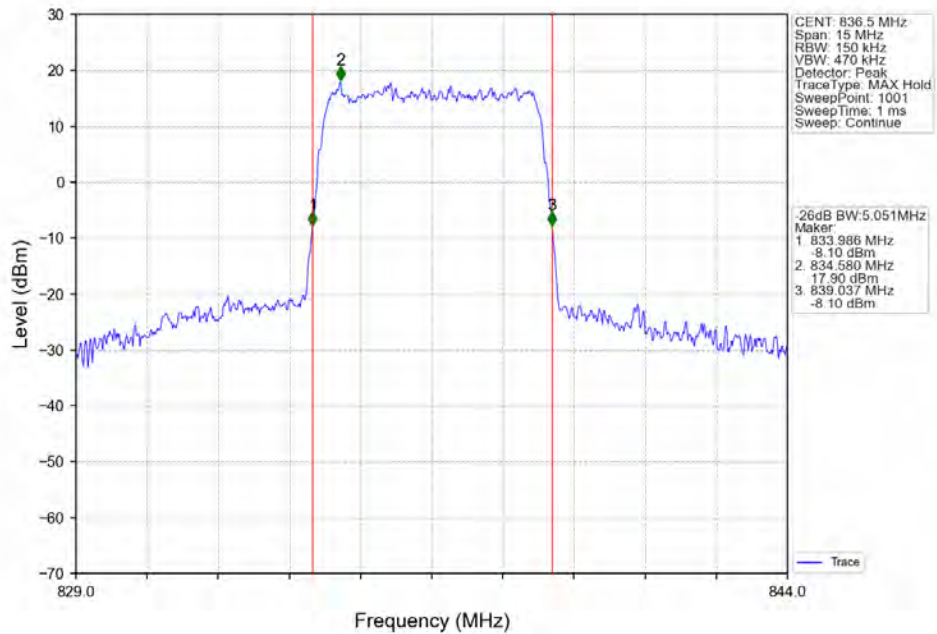
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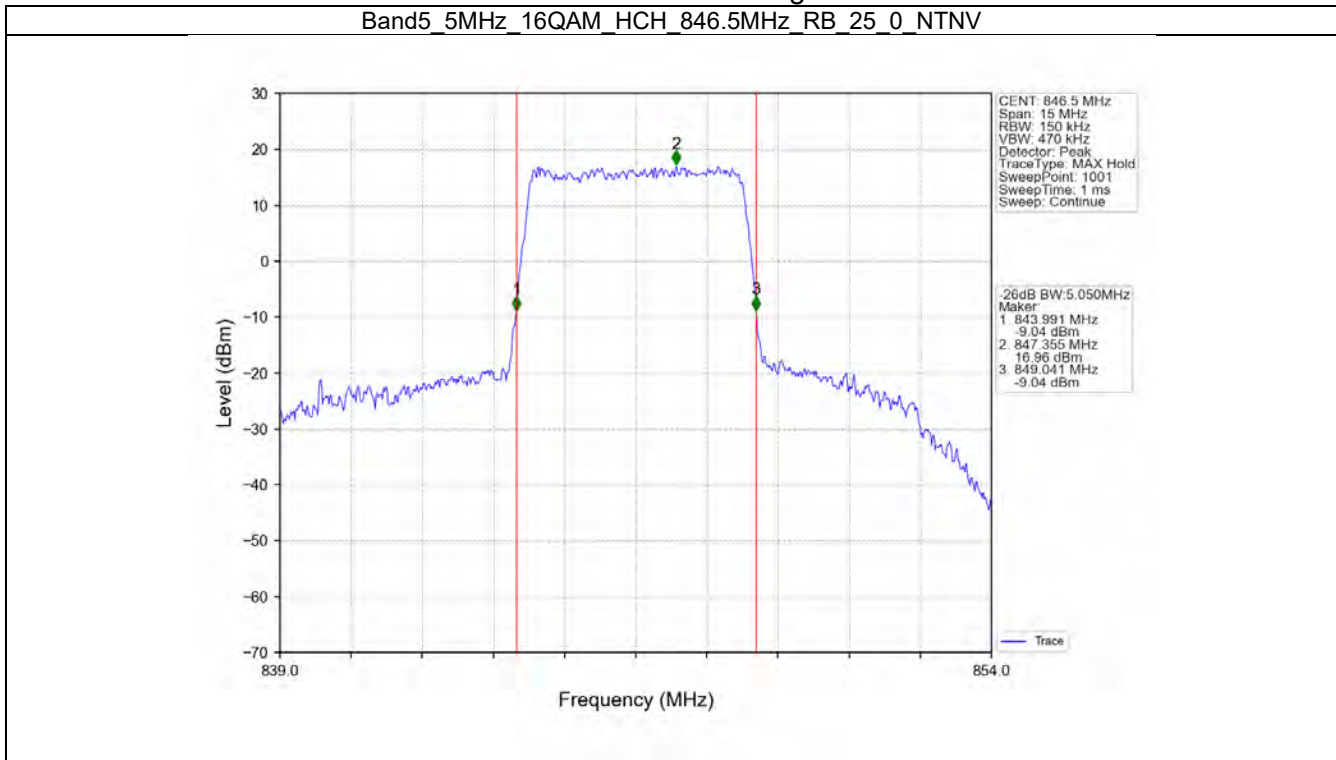
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Rev.: 01

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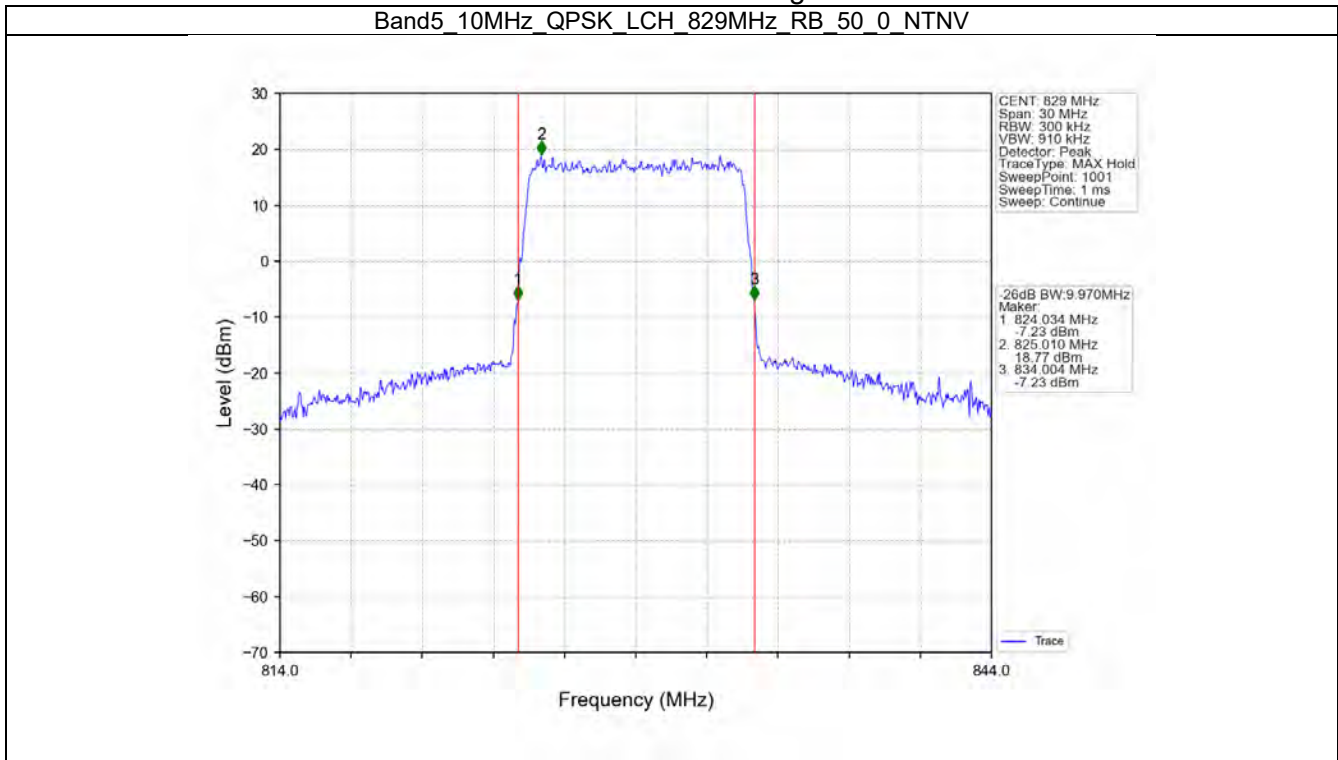
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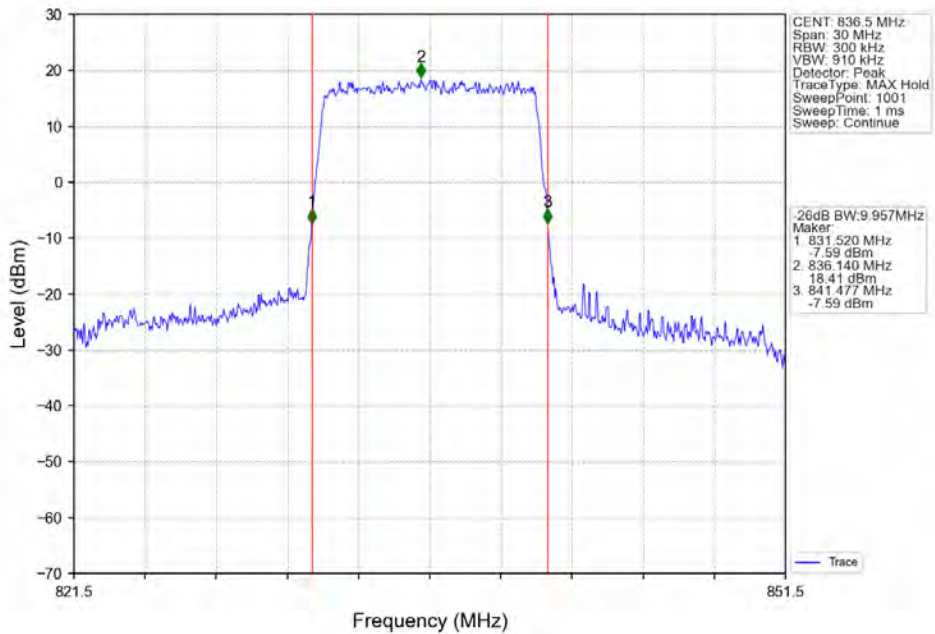
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Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



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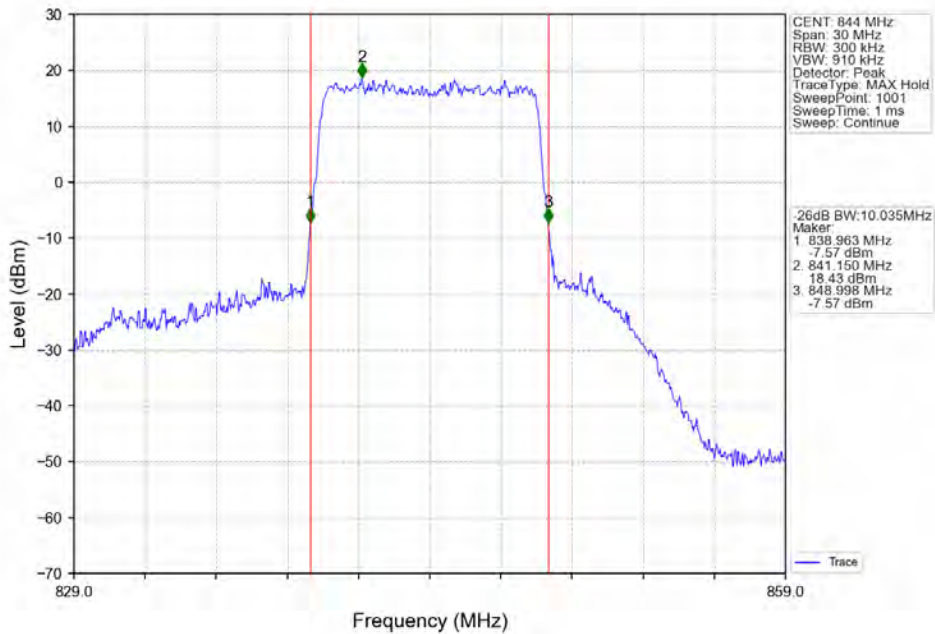
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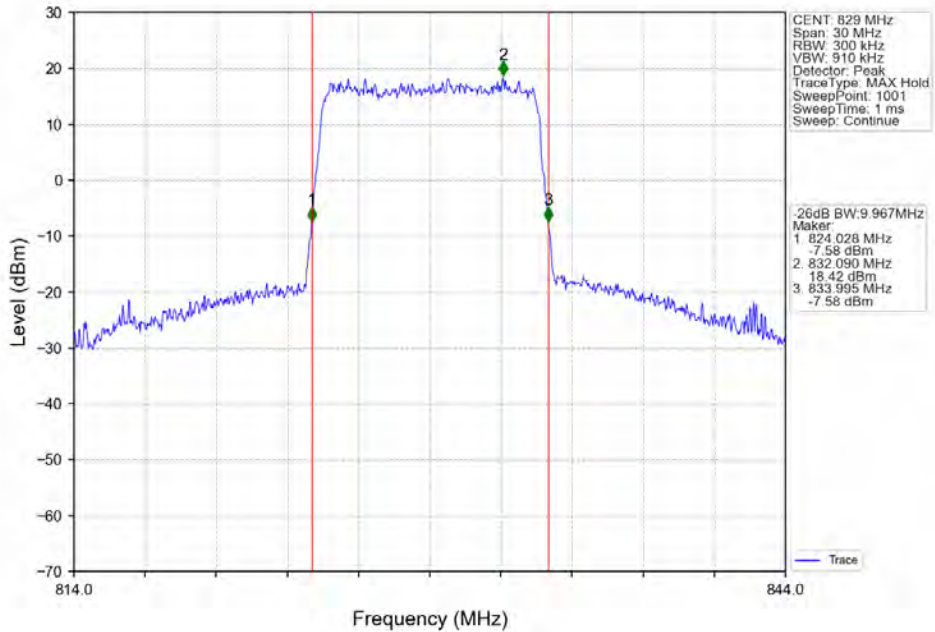
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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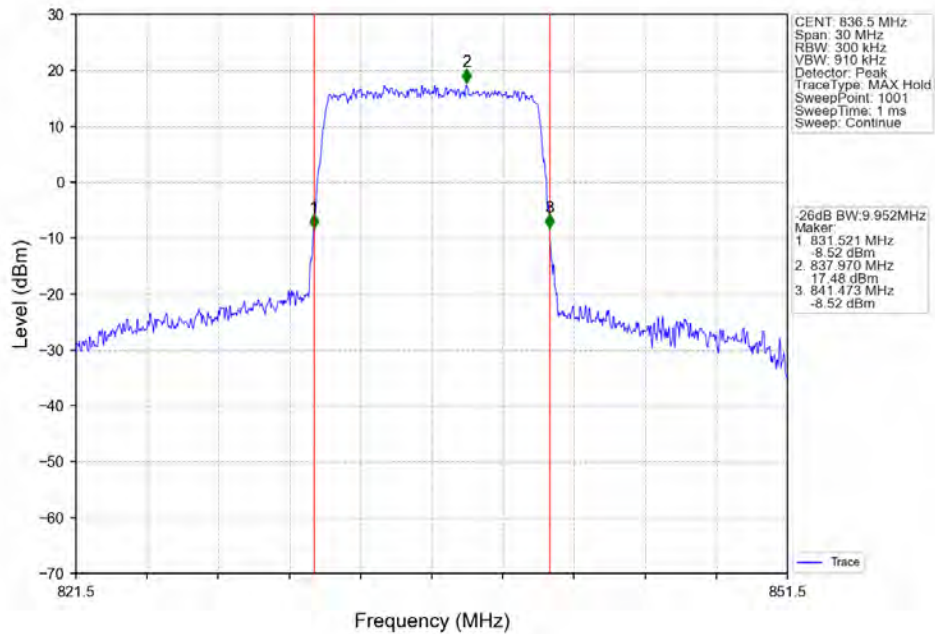
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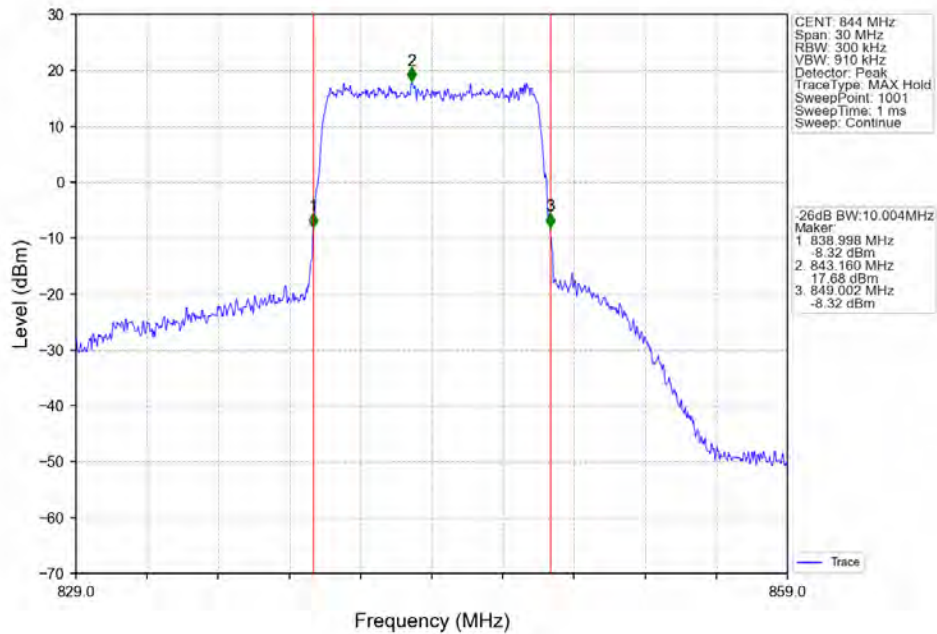
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4. Peak-Average Ratio

4.1 B5_1.4MHz

4.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTN/V							
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict	
		Size	Offset	Result	Limit		
QPSK	824.7	6	0	5.37	<=13	Pass	
	836.5	6	0	5.55	<=13	Pass	
	848.3	6	0	5.29	<=13	Pass	
16QAM	824.7	6	0	6.25	<=13	Pass	
	836.5	6	0	6.39	<=13	Pass	
	848.3	6	0	6.14	<=13	Pass	



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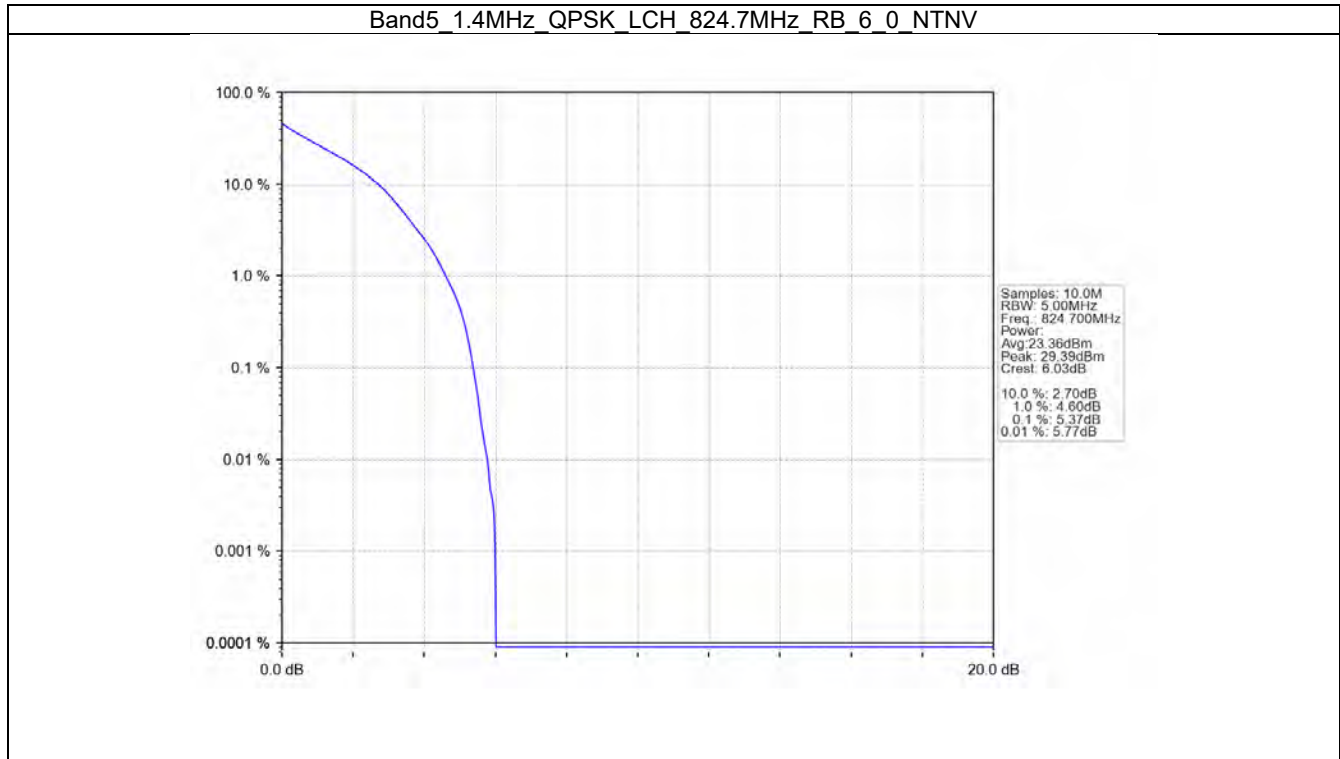
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4.1.2 Test Graph



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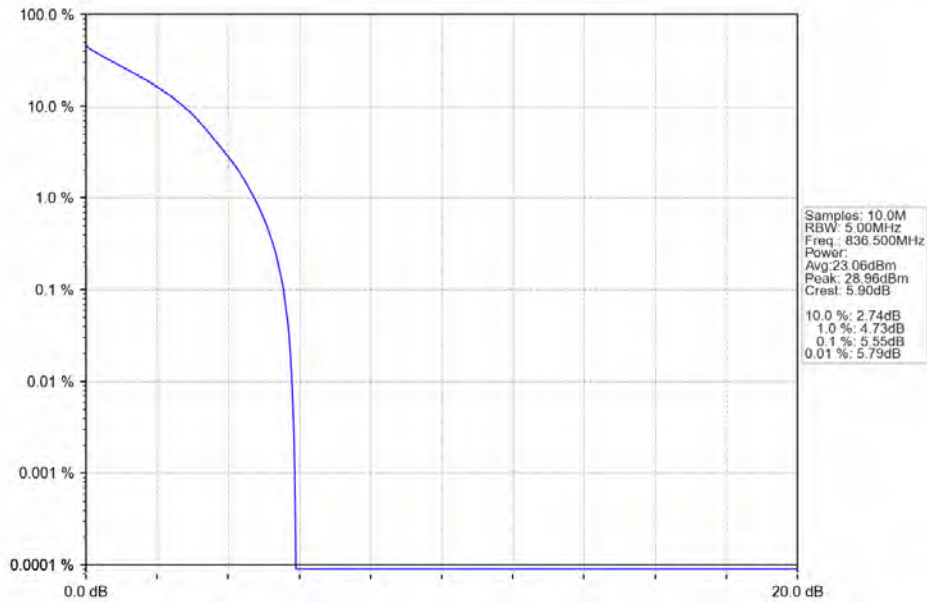
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Band5 1.4MHz QPSK MCH 836.5MHz RB 6_0 NTV



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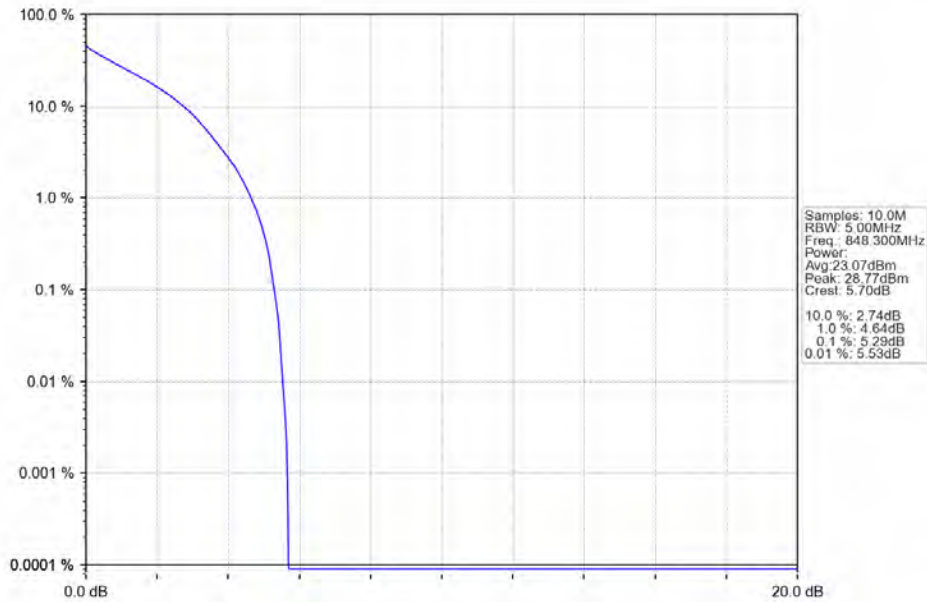
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



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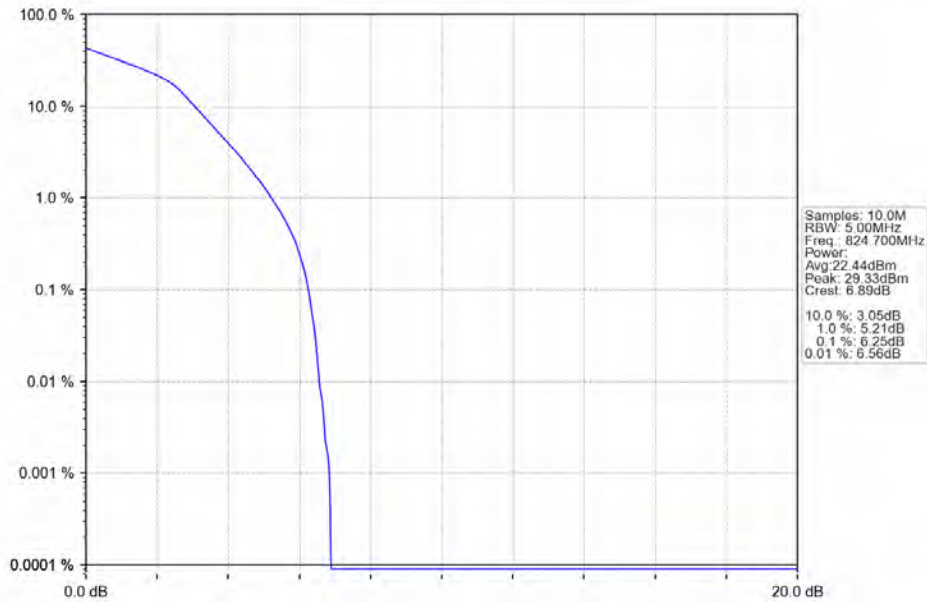
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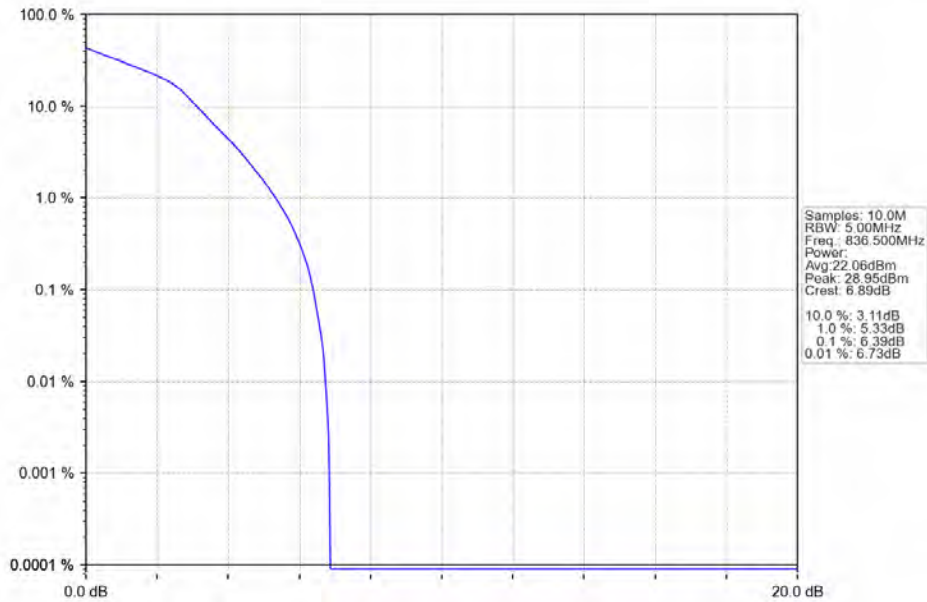
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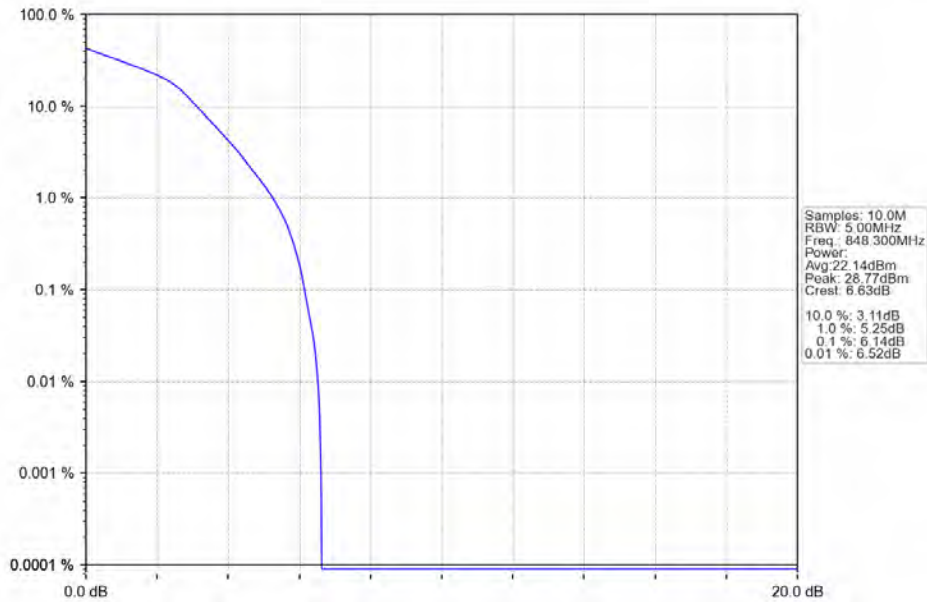
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4.2 B5_3MHz

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	5.59	<=13	Pass
	836.5	15	0	5.64	<=13	Pass
	847.5	15	0	5.58	<=13	Pass
16QAM	825.5	15	0	6.40	<=13	Pass
	836.5	15	0	6.49	<=13	Pass
	847.5	15	0	6.40	<=13	Pass



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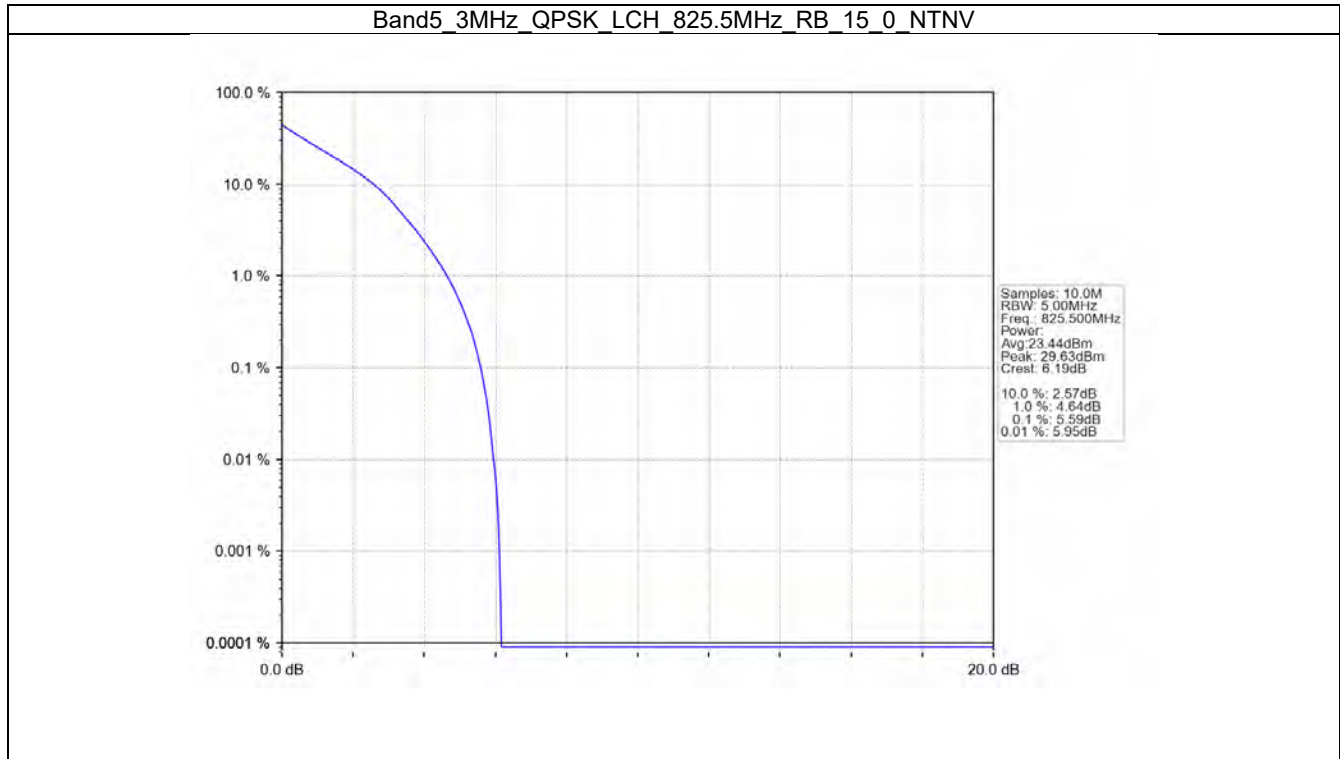
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4.2.2 Test Graph



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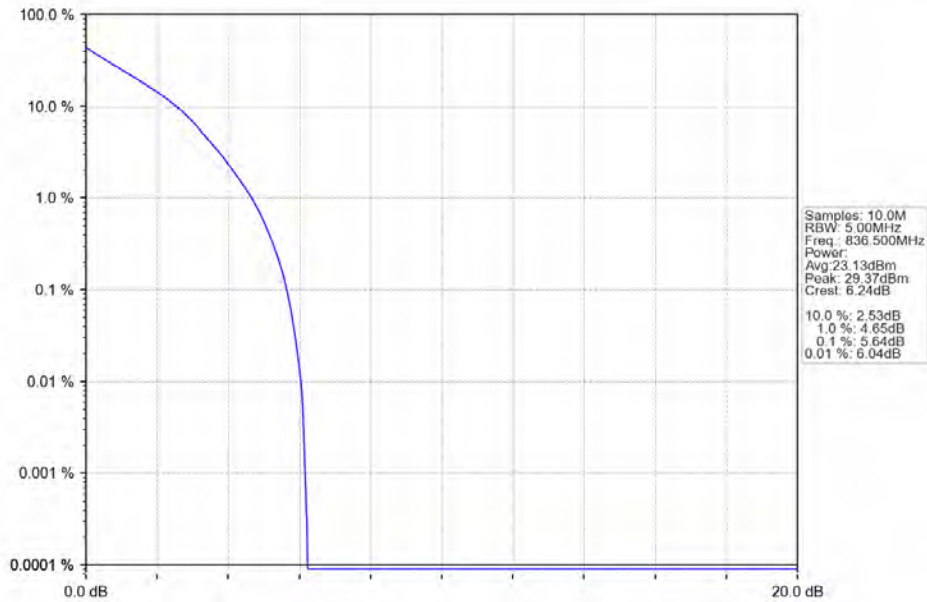
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Report No.: SUCR240400011301

Rev.: 01

Page: 71 of 124

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



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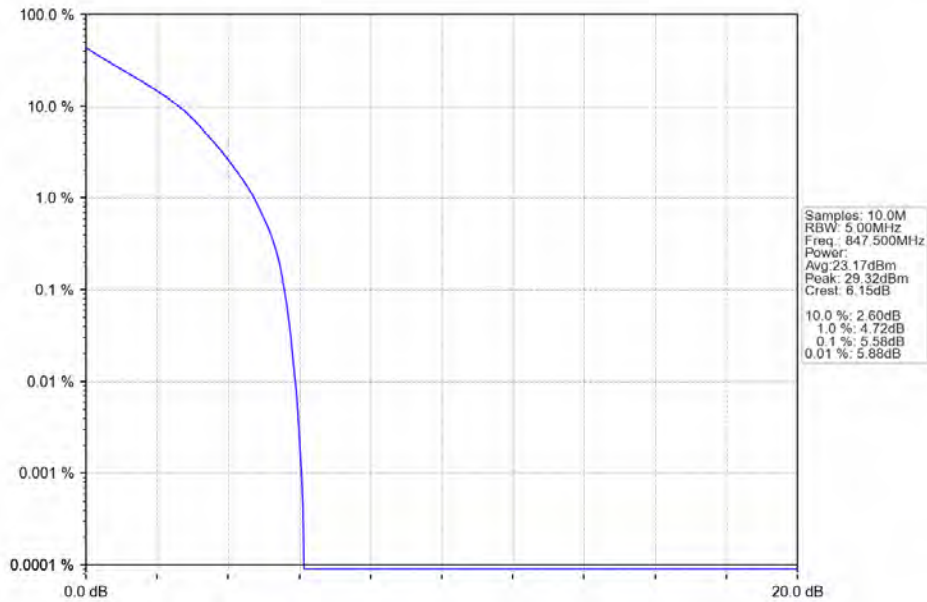
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Report No.: SUCR240400011301

Rev.: 01

Page: 72 of 124

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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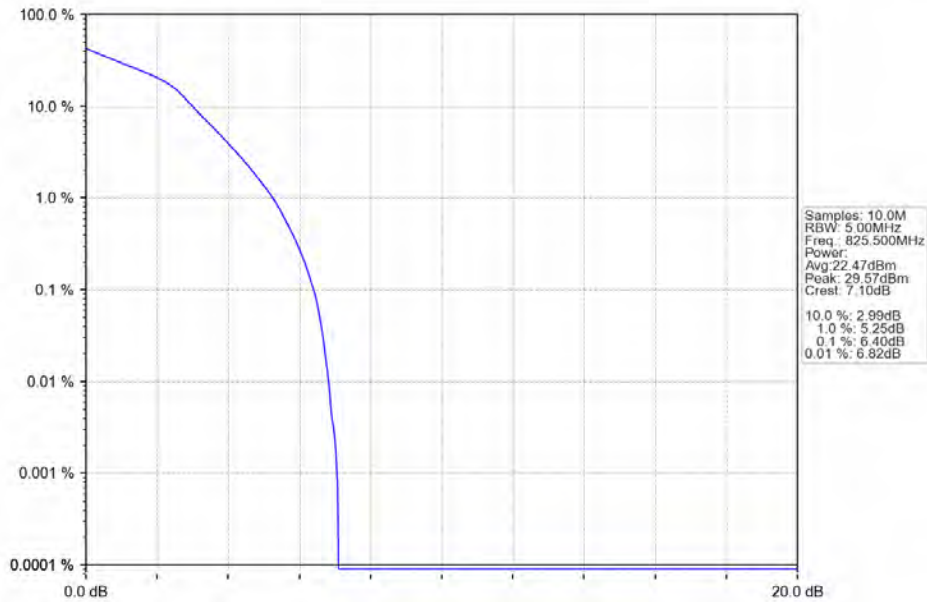
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Report No.: SUCR240400011301

Rev.: 01

Page: 73 of 124

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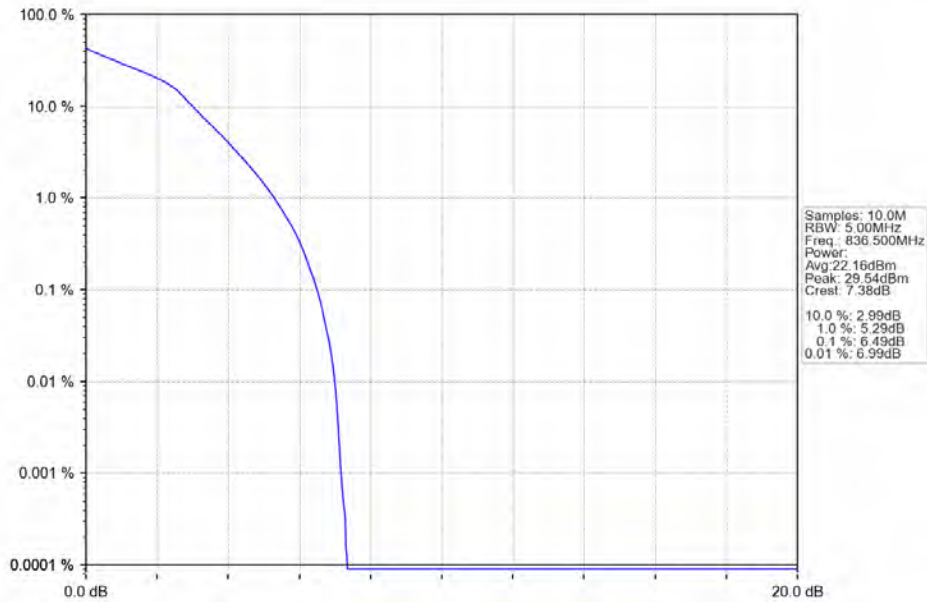
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Rev.: 01

Page: 74 of 124

Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



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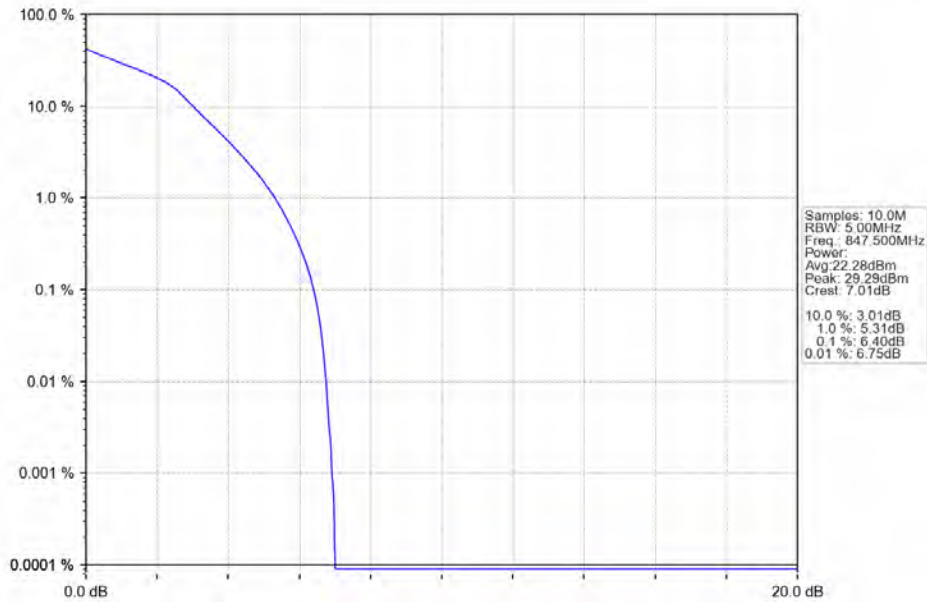
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Report No.: SUCR240400011301

Rev.: 01

Page: 75 of 124

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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Report No.: SUCR240400011301
 Rev.: 01
 Page: 76 of 124

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	5.74	<=13	Pass
	836.5	25	0	5.70	<=13	Pass
	846.5	25	0	5.70	<=13	Pass
16QAM	826.5	25	0	6.47	<=13	Pass
	836.5	25	0	6.48	<=13	Pass
	846.5	25	0	6.50	<=13	Pass

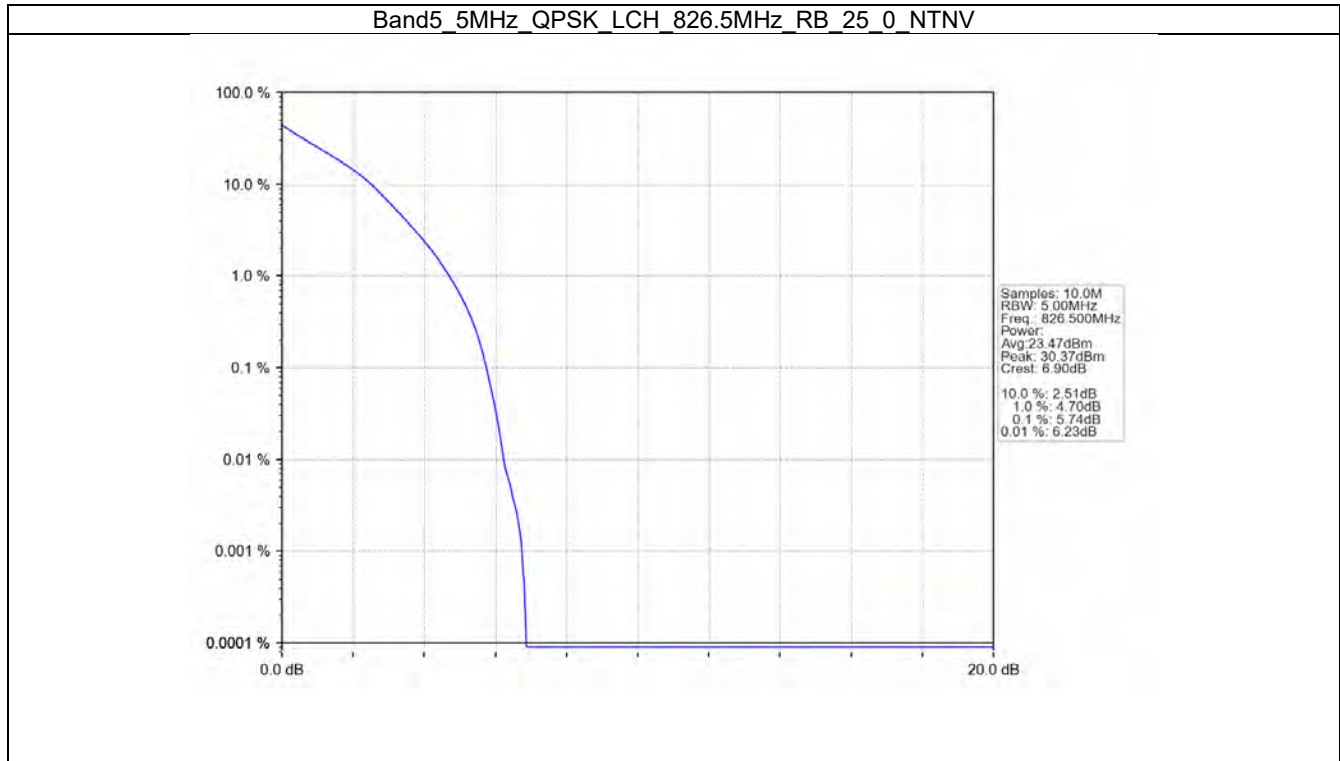


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4.3.2 Test Graph

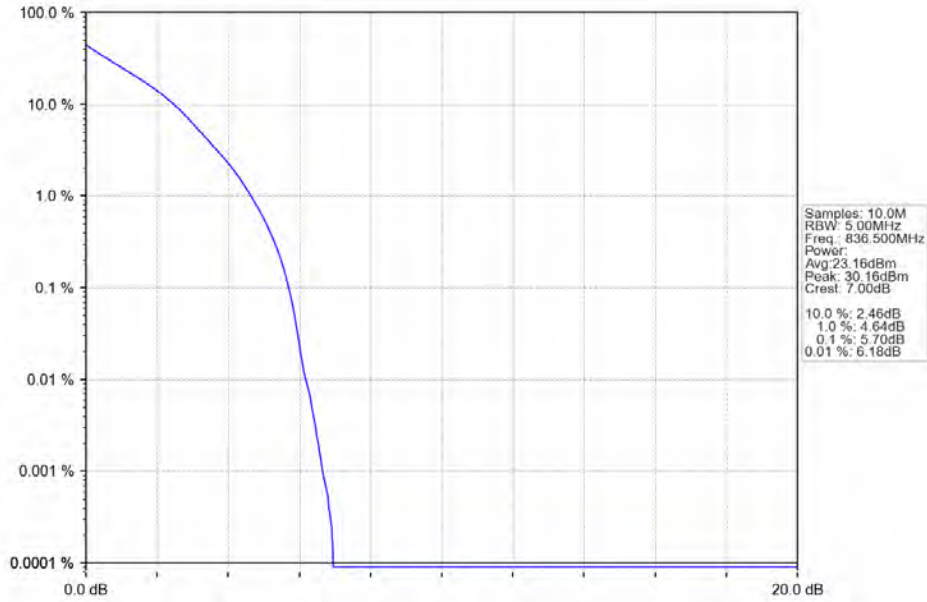


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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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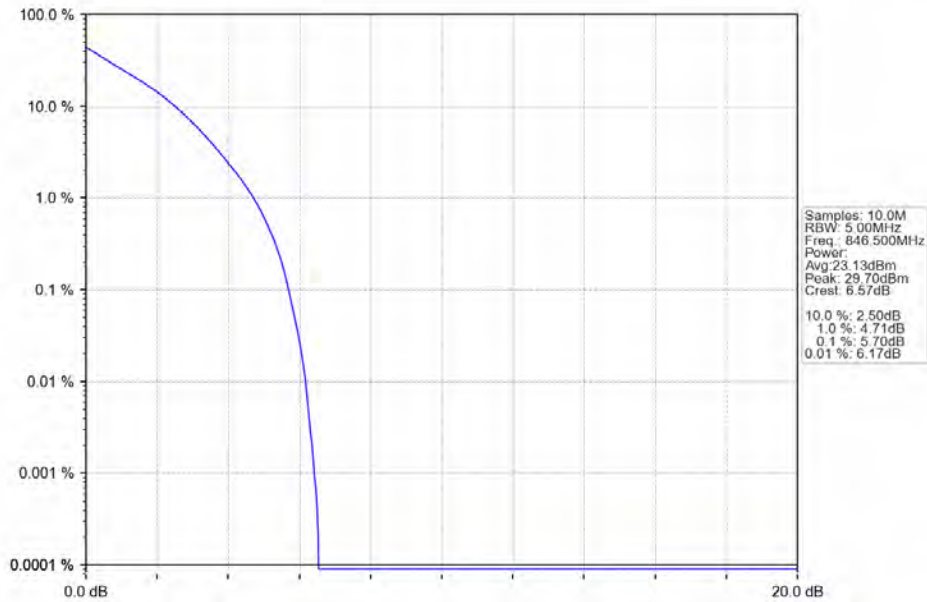
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Page: 79 of 124

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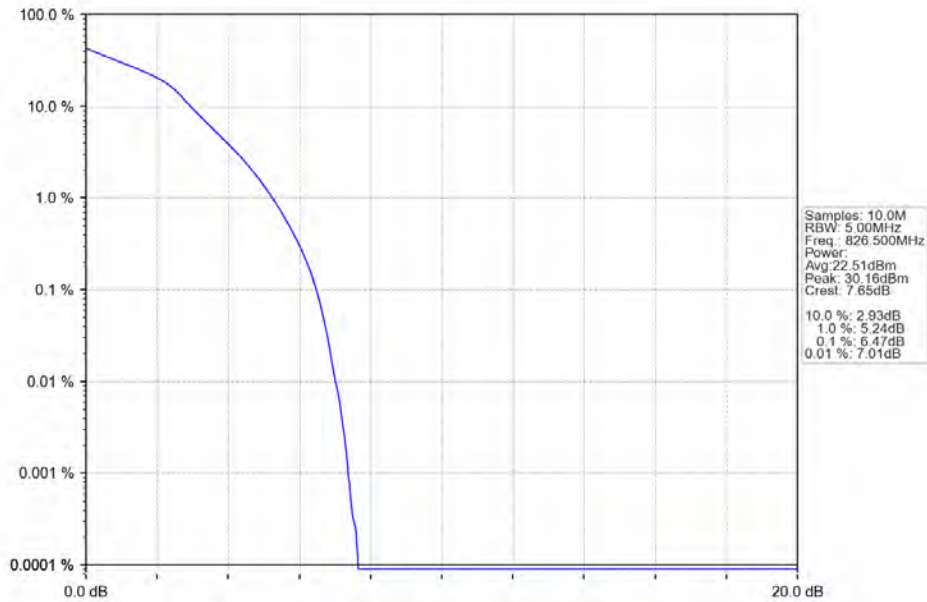
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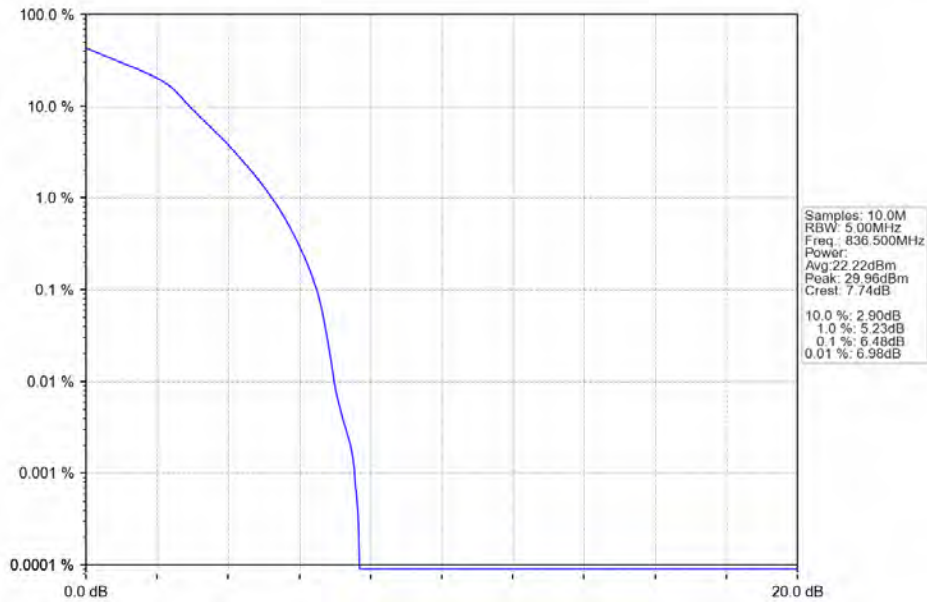
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Page: 81 of 124

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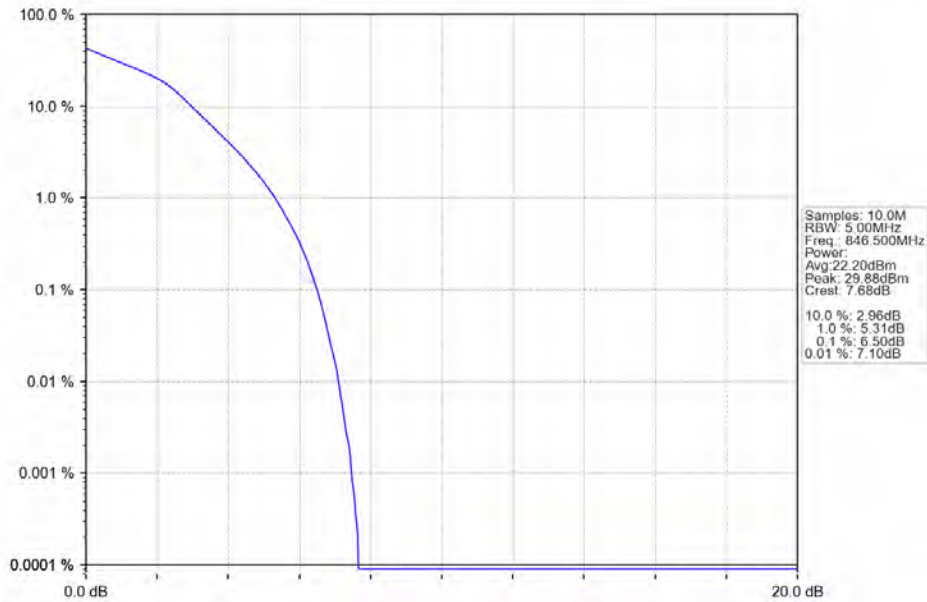
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4.4 B5_10MHz

4.4.1 Test Result

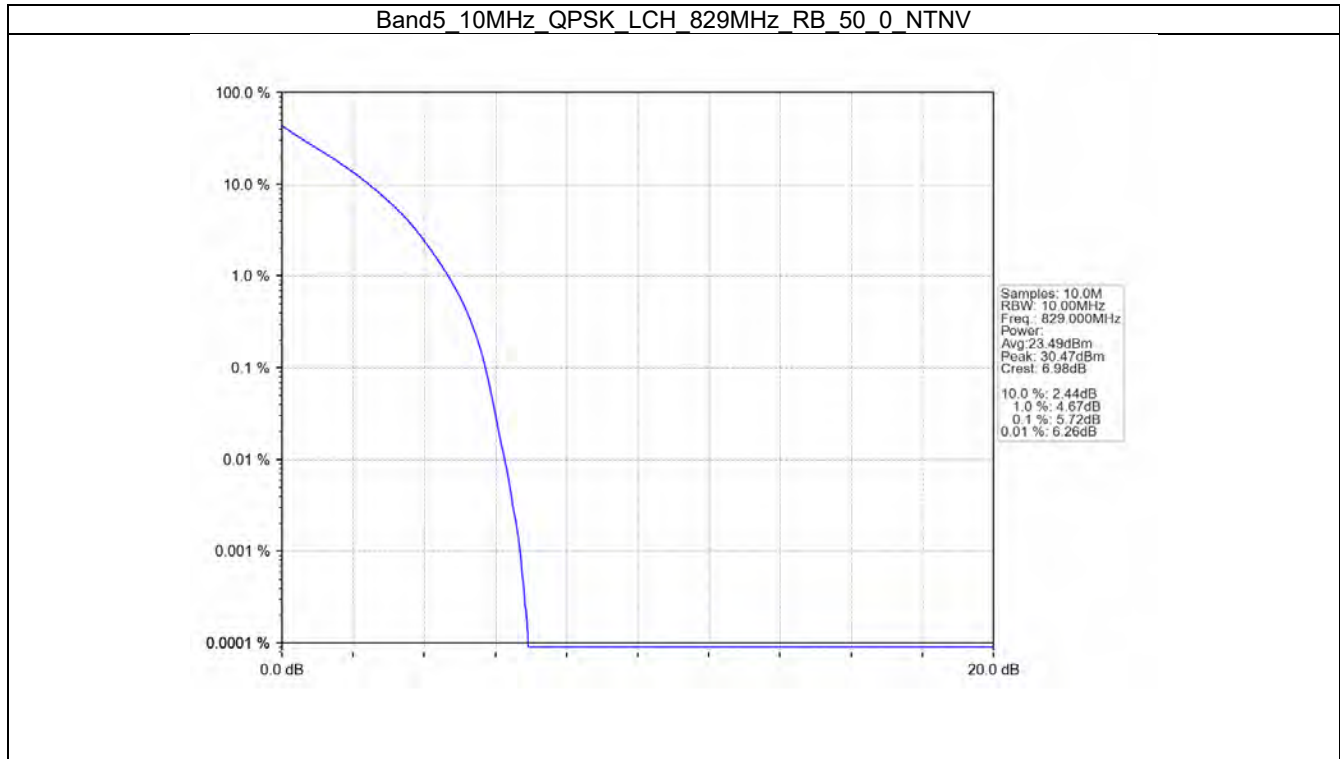
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.72	<=13	Pass
	836.5	50	0	5.61	<=13	Pass
	844	50	0	5.69	<=13	Pass
16QAM	829	50	0	6.52	<=13	Pass
	836.5	50	0	6.48	<=13	Pass
	844	50	0	6.53	<=13	Pass



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4.4.2 Test Graph



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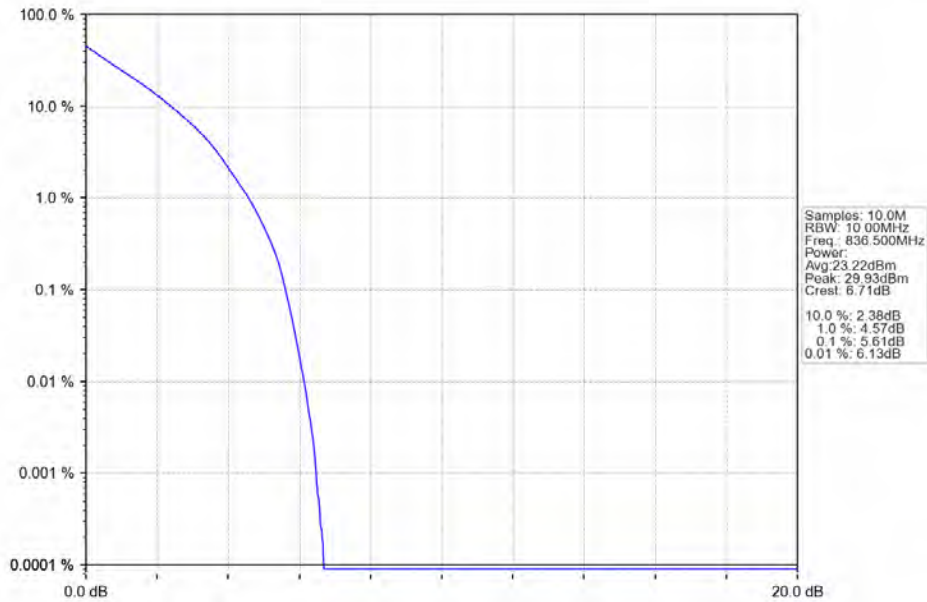
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Rev.: 01

Page: 85 of 124

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



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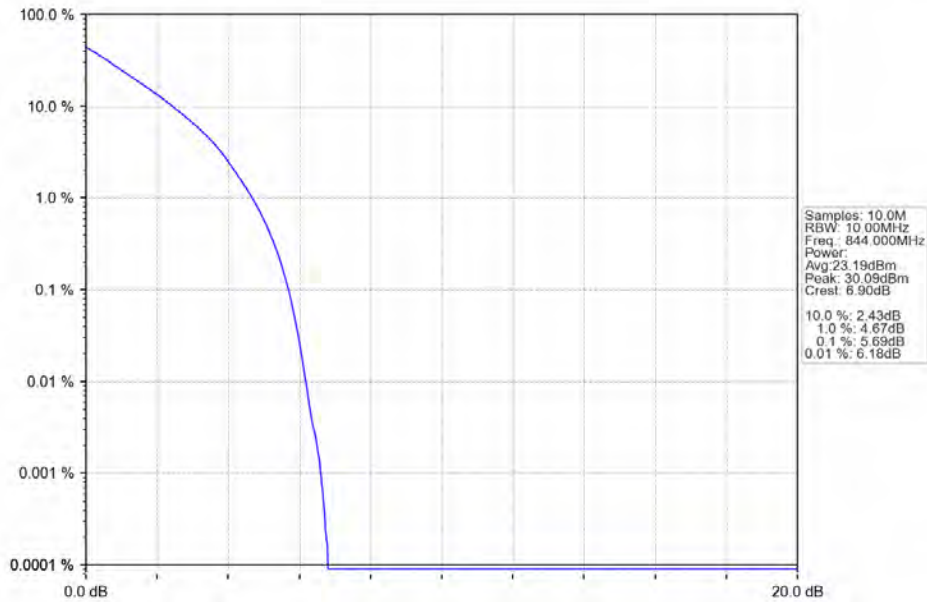
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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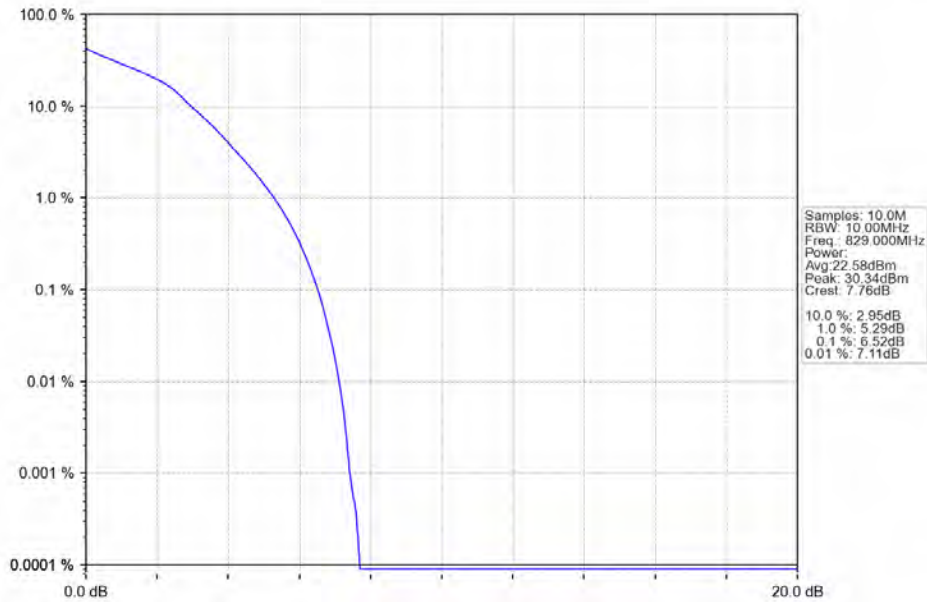
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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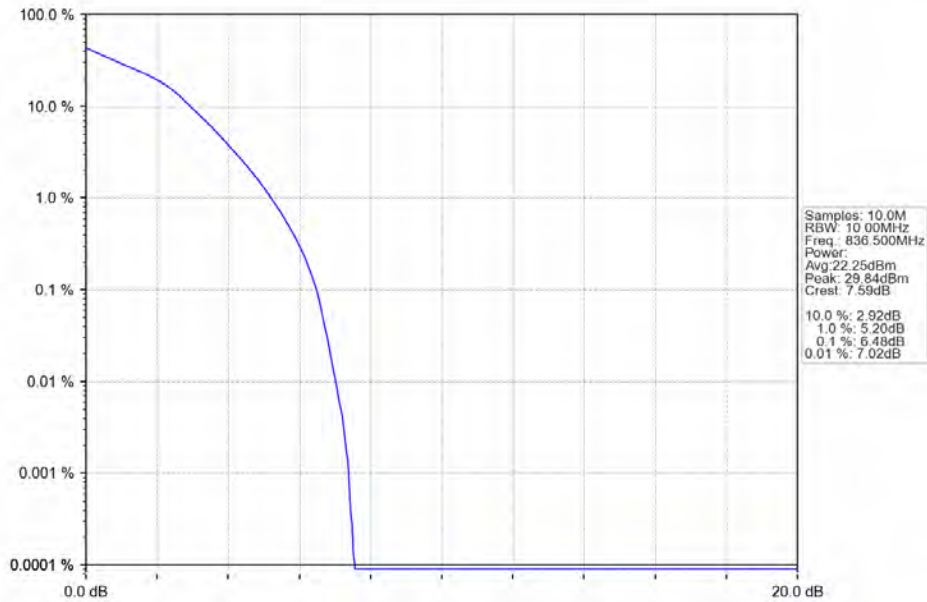
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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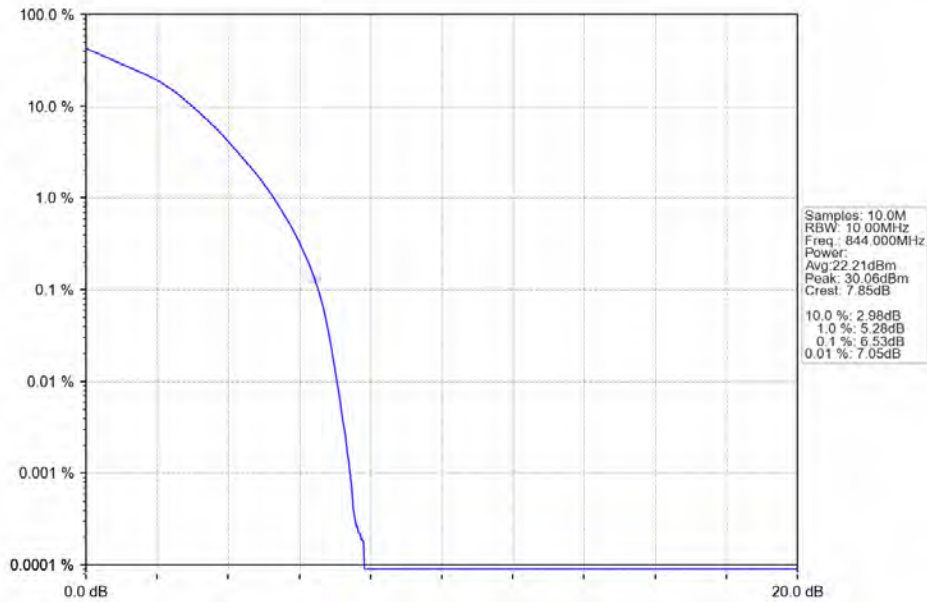
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Report No.: SUCR240400011301

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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edge

5.1 B5_1.4MHz

5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTN						
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
		6	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



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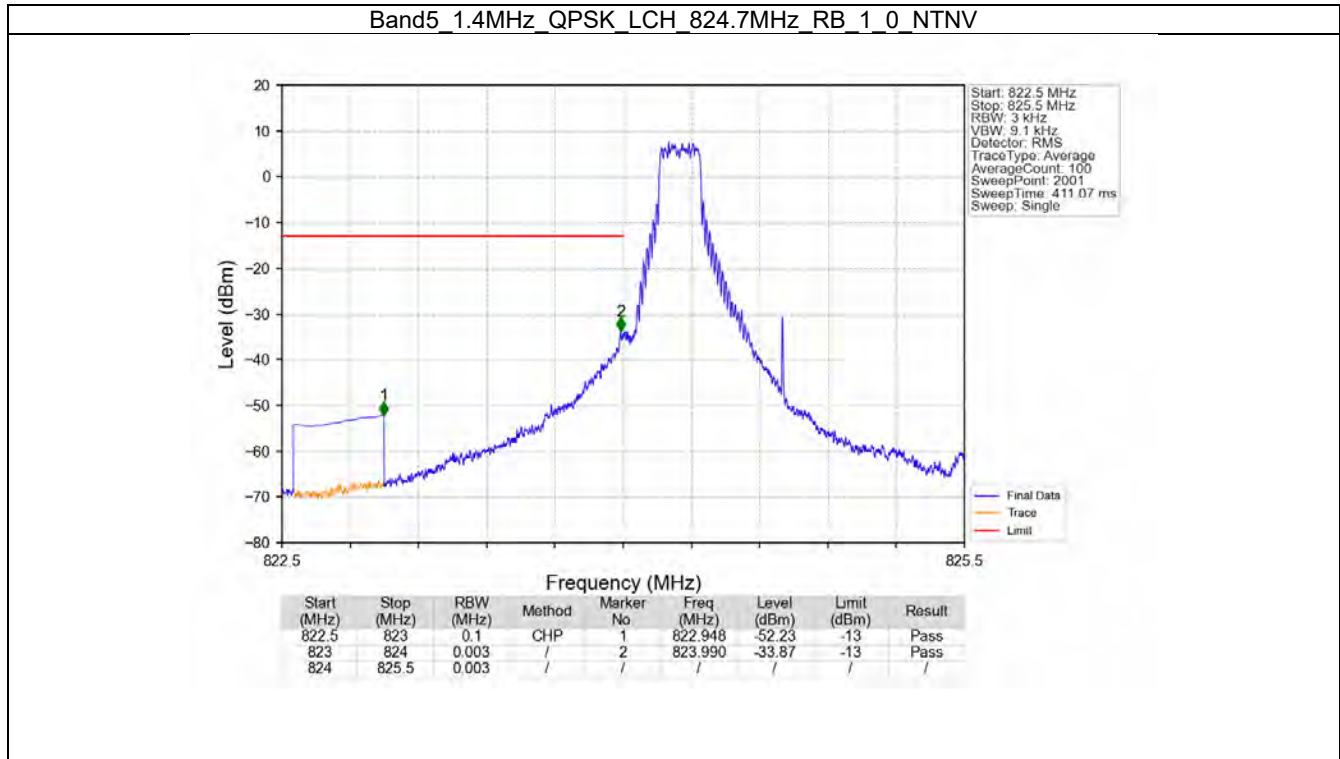
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5.1.2 Test Graph

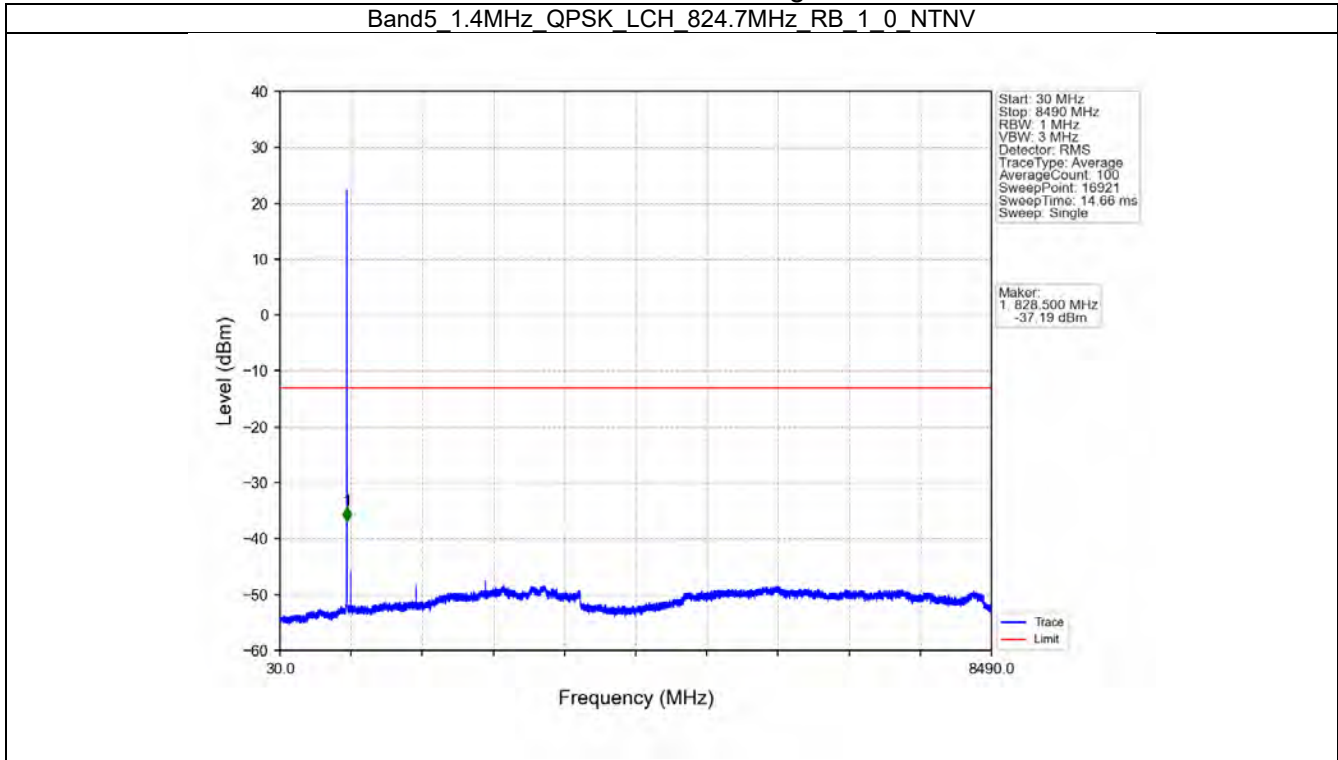


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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV



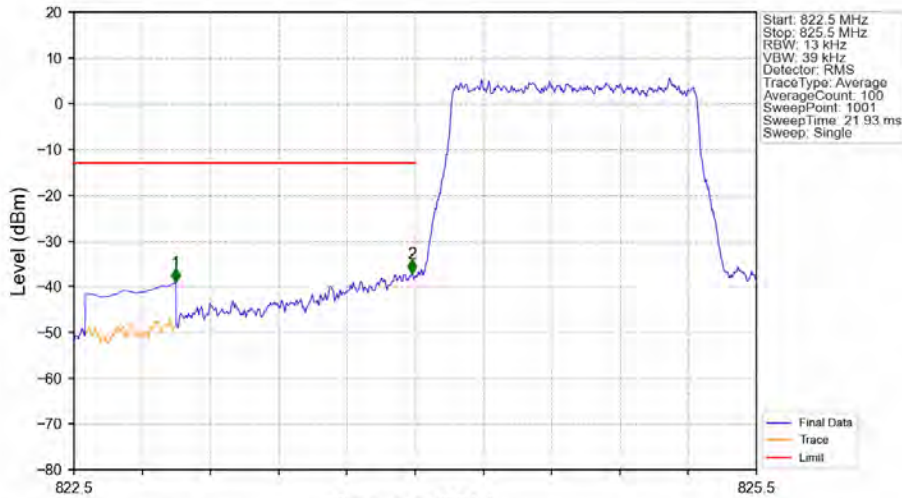
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



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	-39.11	-13	Pass
823	824	0.013	/	2	823.985	-37.14	-13	Pass
824	825.5	0.013	/	/	/	/	/	/



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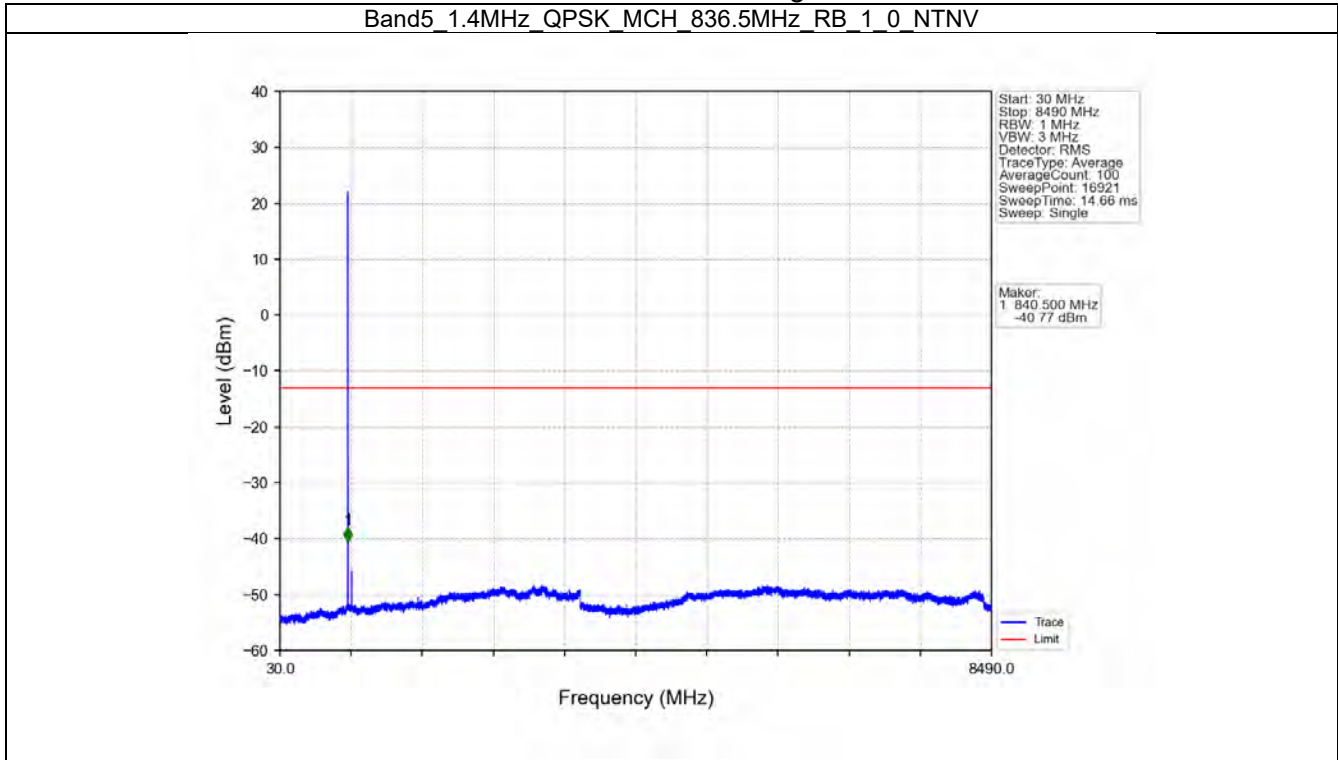
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Rev.: 01

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Band5 1.4MHz QPSK MCH 836.5MHz RB 1_0 NTN



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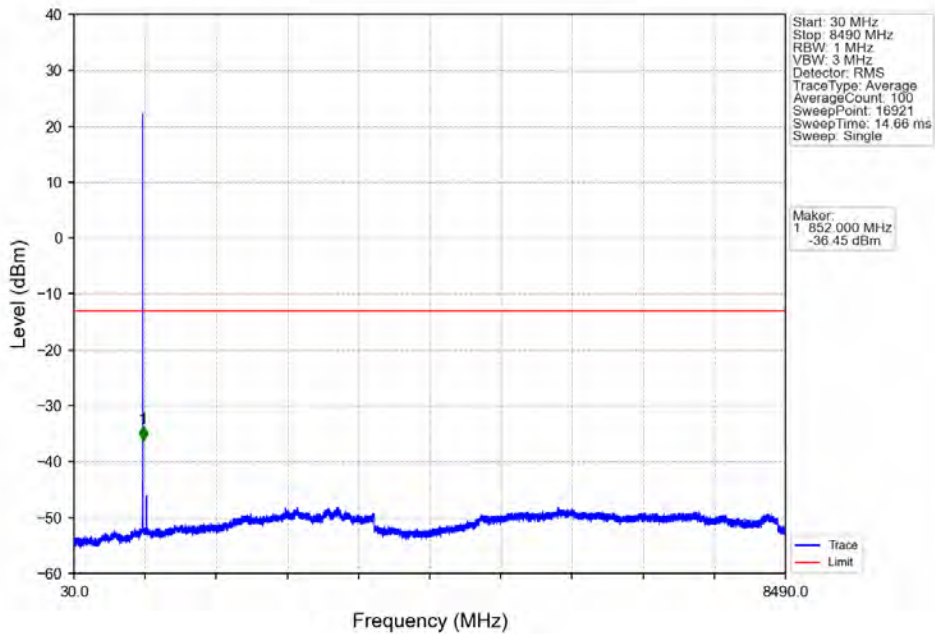
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Band5 1.4MHz QPSK HCH 848.3MHz RB 1_0 NTN



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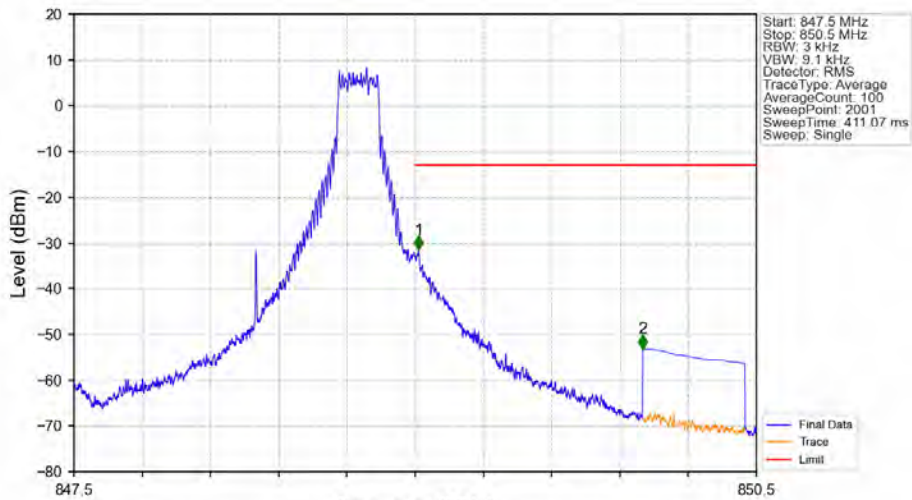
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Report No.: SUCR240400011301

Rev.: 01

Page: 96 of 124

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	849.015	-31.46	-13	Pass
850	850.5	0.1	CHP	2	850.000	-53.11	-13	Pass



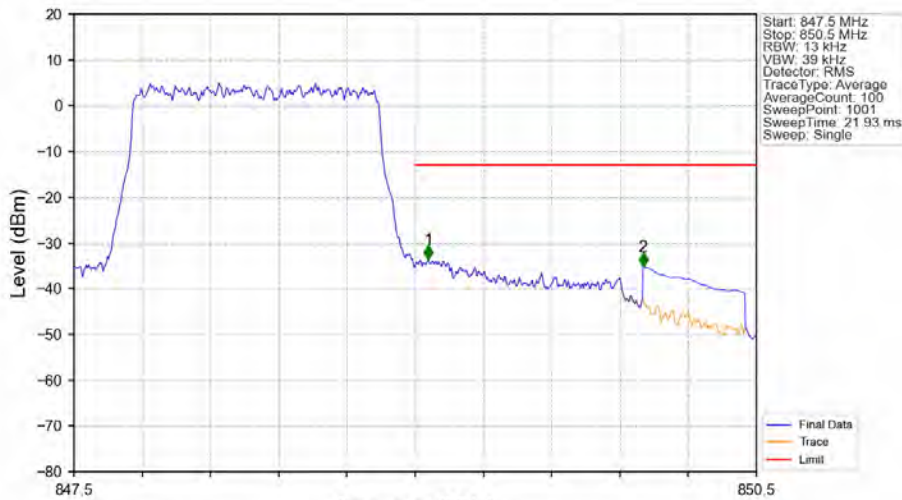
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	1	849.057	-33.66	-13	Pass
849	850	0.013	/	2	850.002	-35.19	-13	Pass
850	850.5	0.1	CHP					



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5.2 B5_3MHz

5.2.1 Test Result

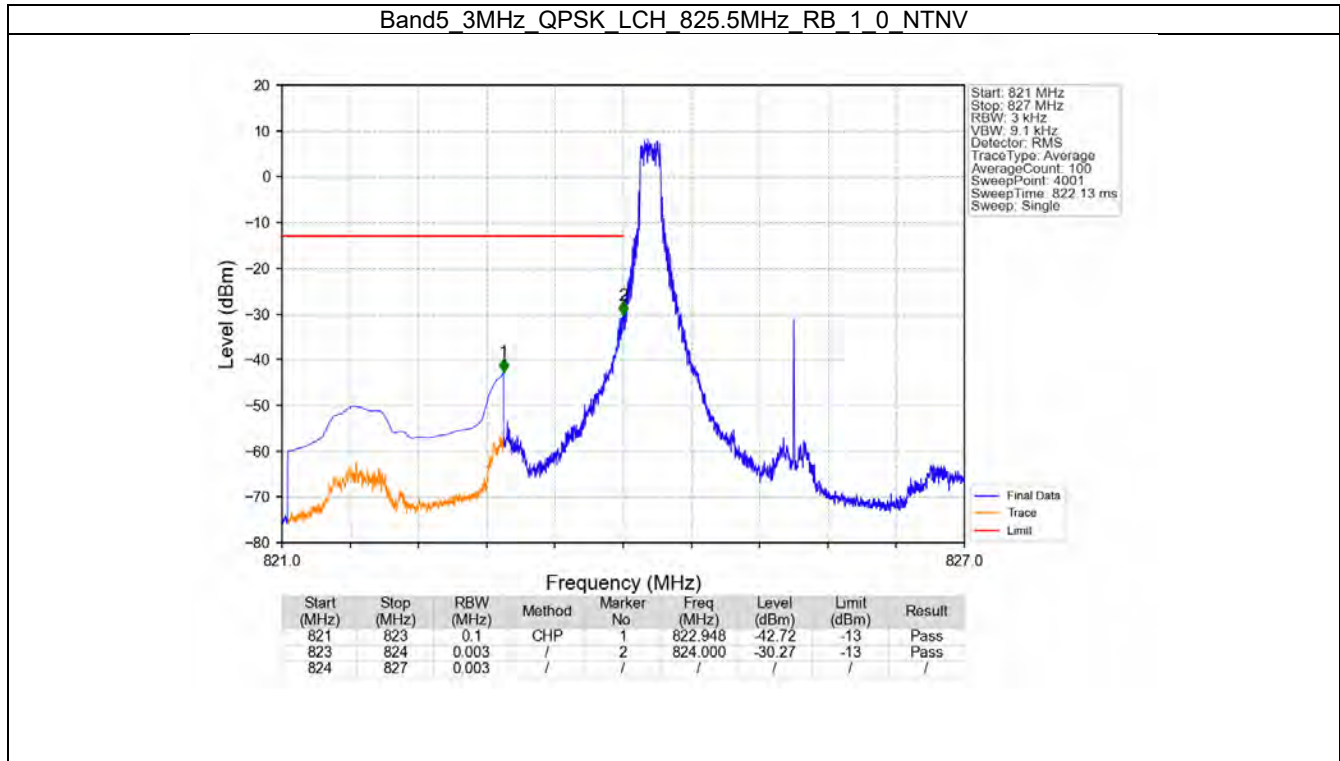
Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test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



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5.2.2 Test Graph



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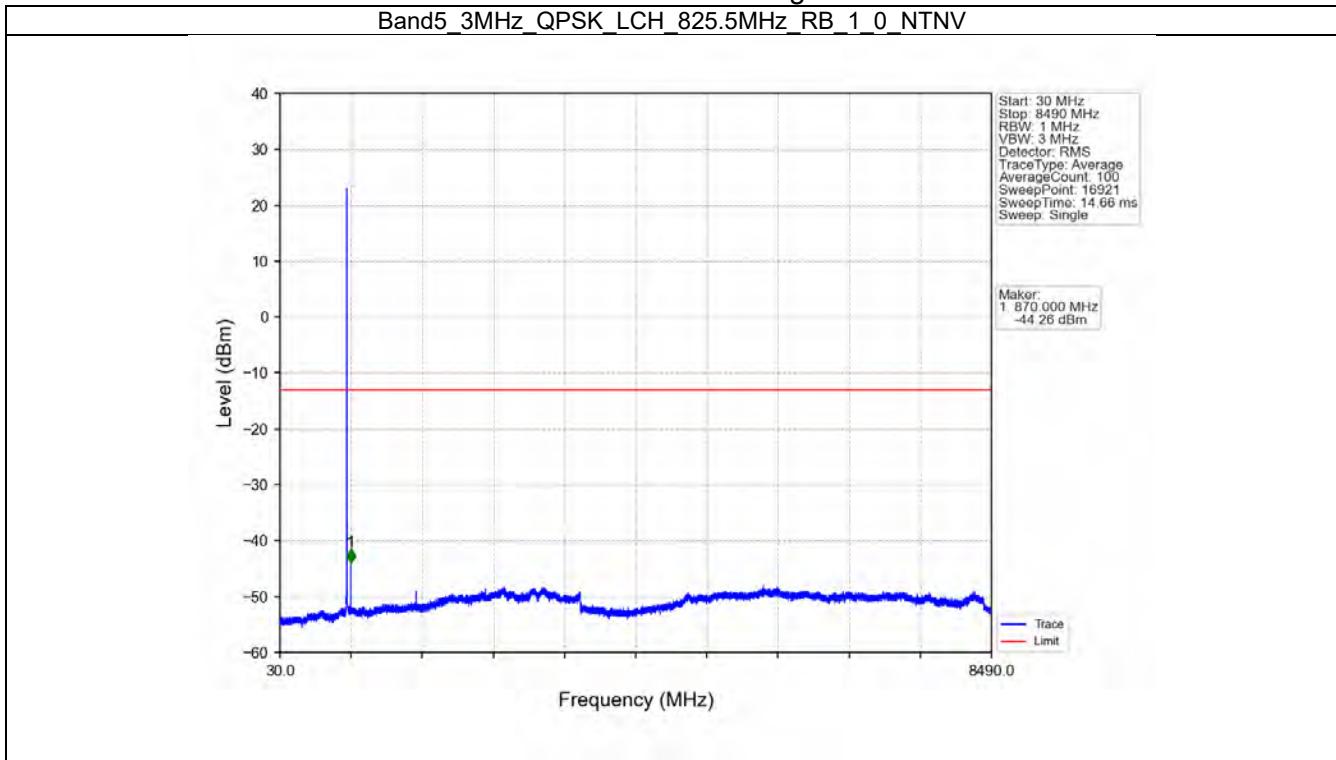
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Page: 100 of 124

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV



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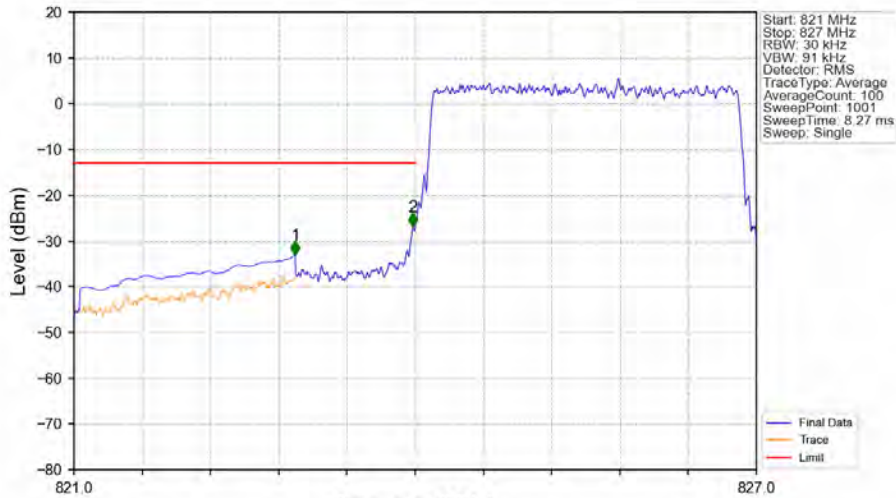
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-33.11	-13	Pass
823	824	0.03	/	2	823.982	-26.89	-13	Pass
824	827	0.03	/	/	/	/	/	/



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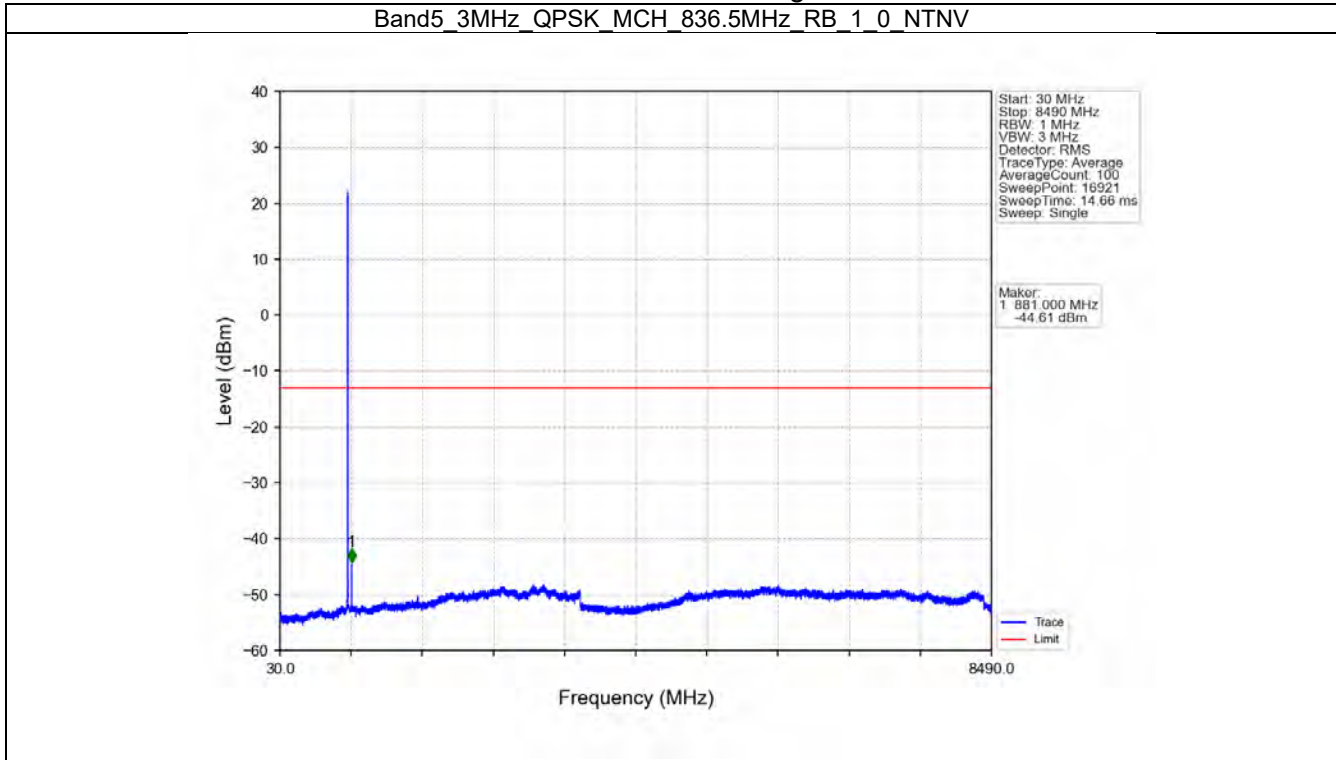
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Page: 102 of 124

Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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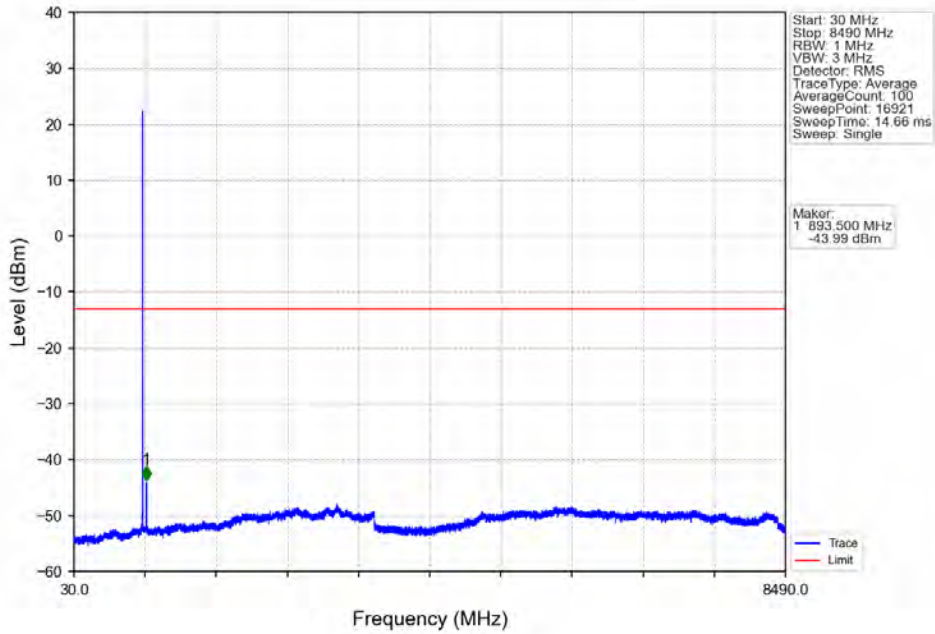
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV



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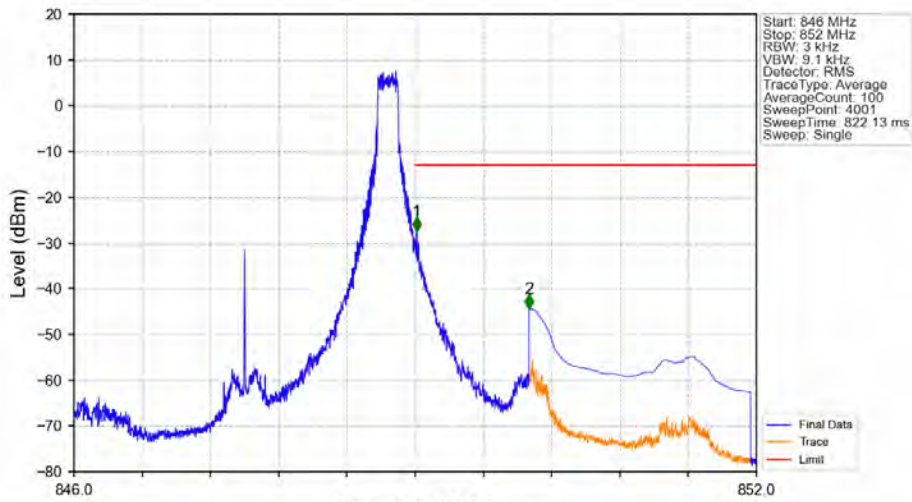
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Page: 104 of 124

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	/	1	849.014	-27.50	-13	Pass
849	850	0.003	/	1	849.014	-27.50	-13	Pass
850	852	0.1	CHP	2	850.004	-44.45	-13	Pass



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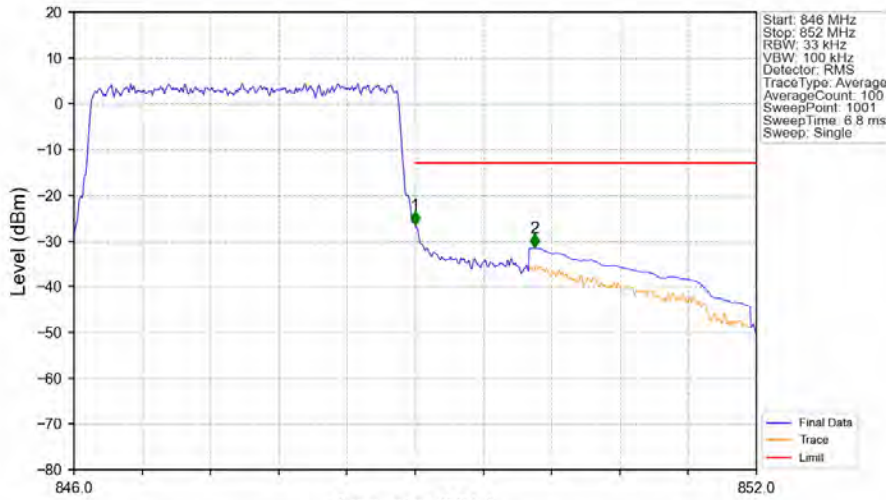
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	1	849.000	-26.54	-13	Pass
849	850	0.033	/	1	849.000	-26.54	-13	Pass
850	852	0.1	CHP	2	850.050	-31.57	-13	Pass



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5.3 B5_5MHz

5.3.1 Test Result

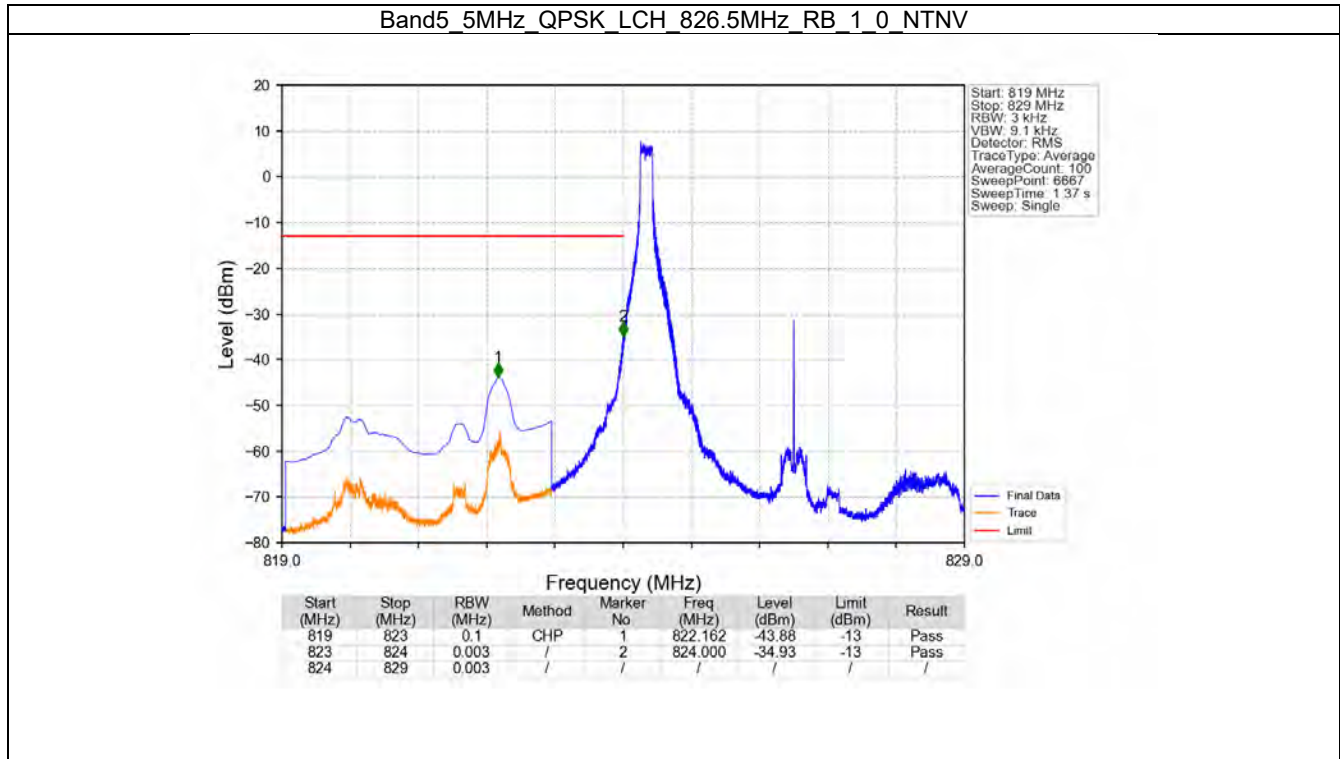
Band: 5 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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5.3.2 Test Graph



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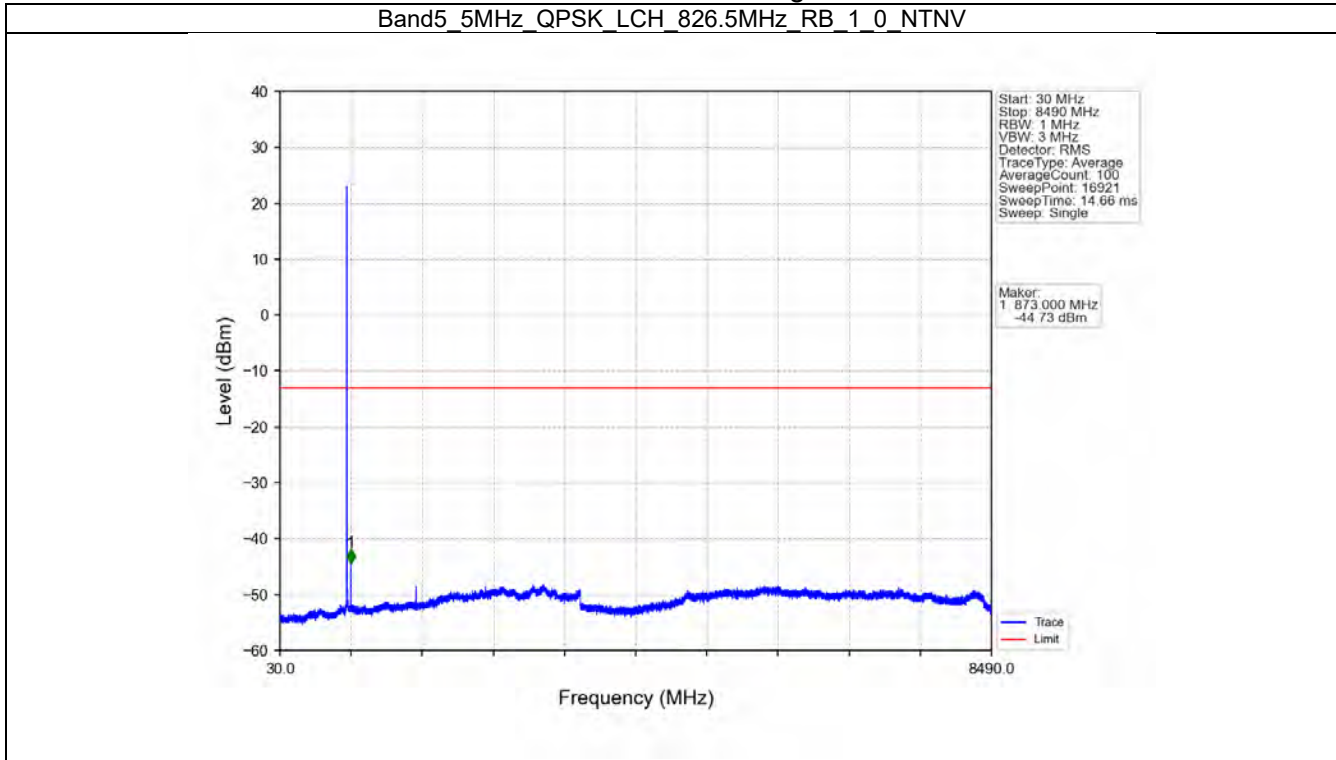
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV



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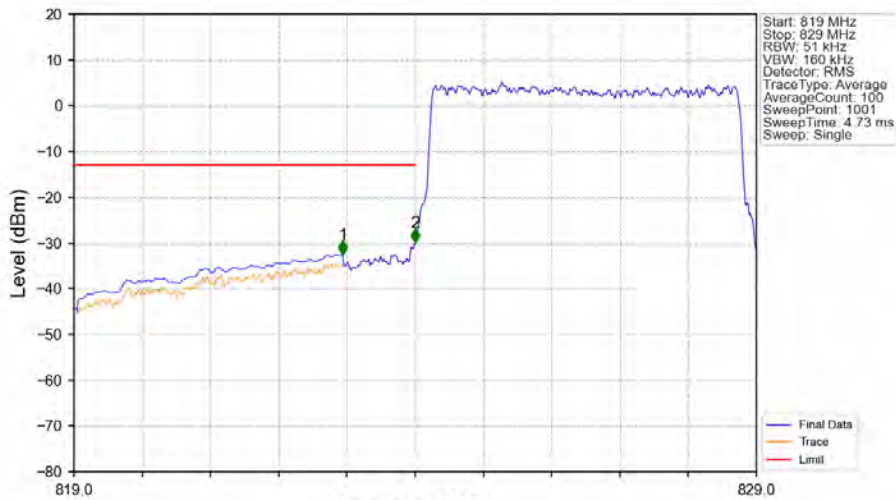
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-32.51	-13	Pass
823	824	0.051	/	2	824.000	-29.97	-13	Pass
824	829	0.051	/	/	/	/	/	/



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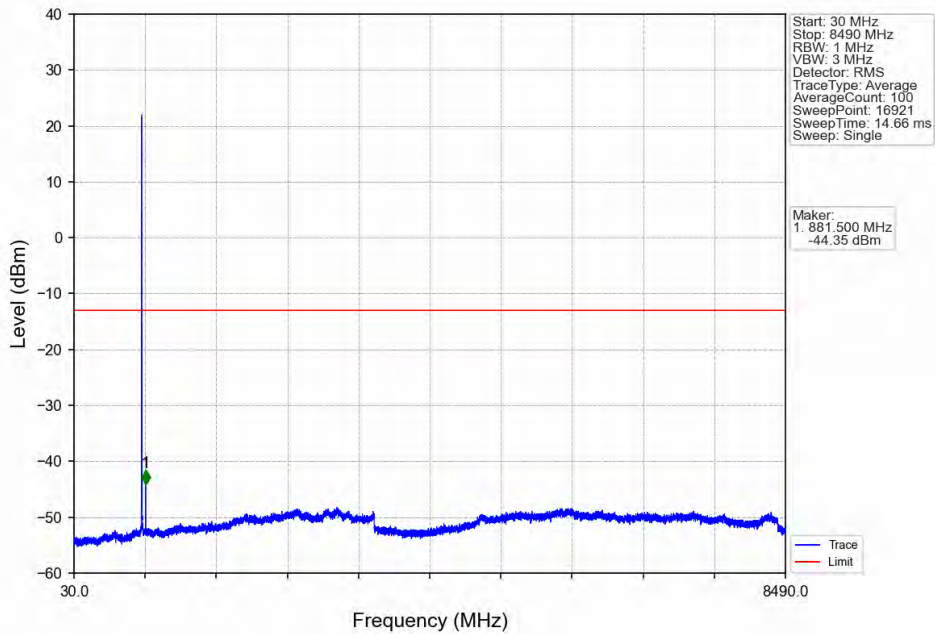
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Rev.: 01

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Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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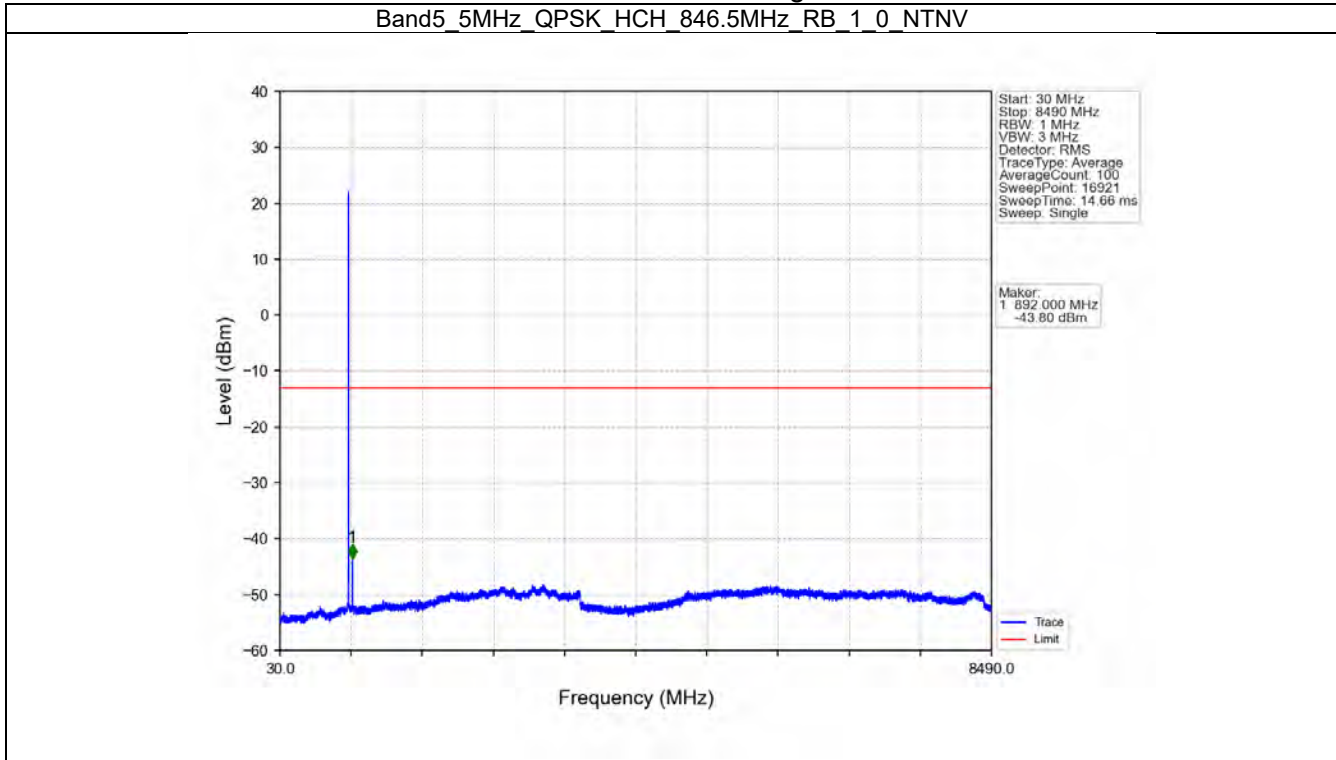
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV



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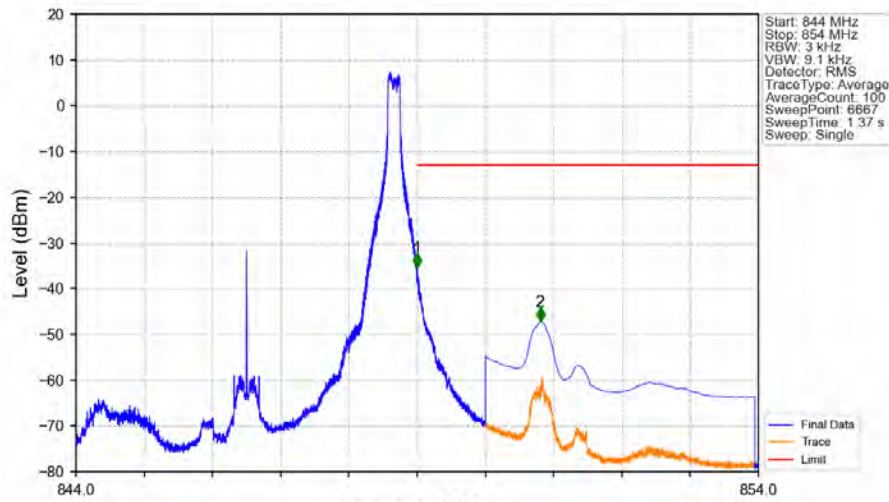
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Page: 112 of 124

Band5_5MHz_QPSK_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	/	1	849.000	-35.43	-13	Pass
849	850	0.003	/	1	849.000	-35.43	-13	Pass
850	854	0.1	CHP	2	850.803	-47.18	-13	Pass



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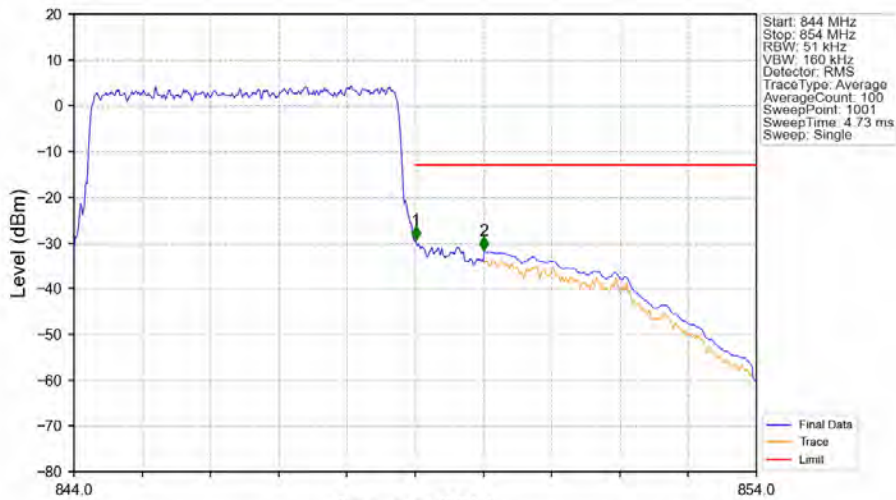
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	1	849.010	-29.41	-13	Pass
849	850	0.051	/	1	849.010	-29.41	-13	Pass
850	854	0.1	CHP	2	850.010	-31.73	-13	Pass



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5.4 B5_10MHz

5.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
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
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
	50	0	Refer To Test Graph		Pass	
			Refer To Test Graph		Pass	

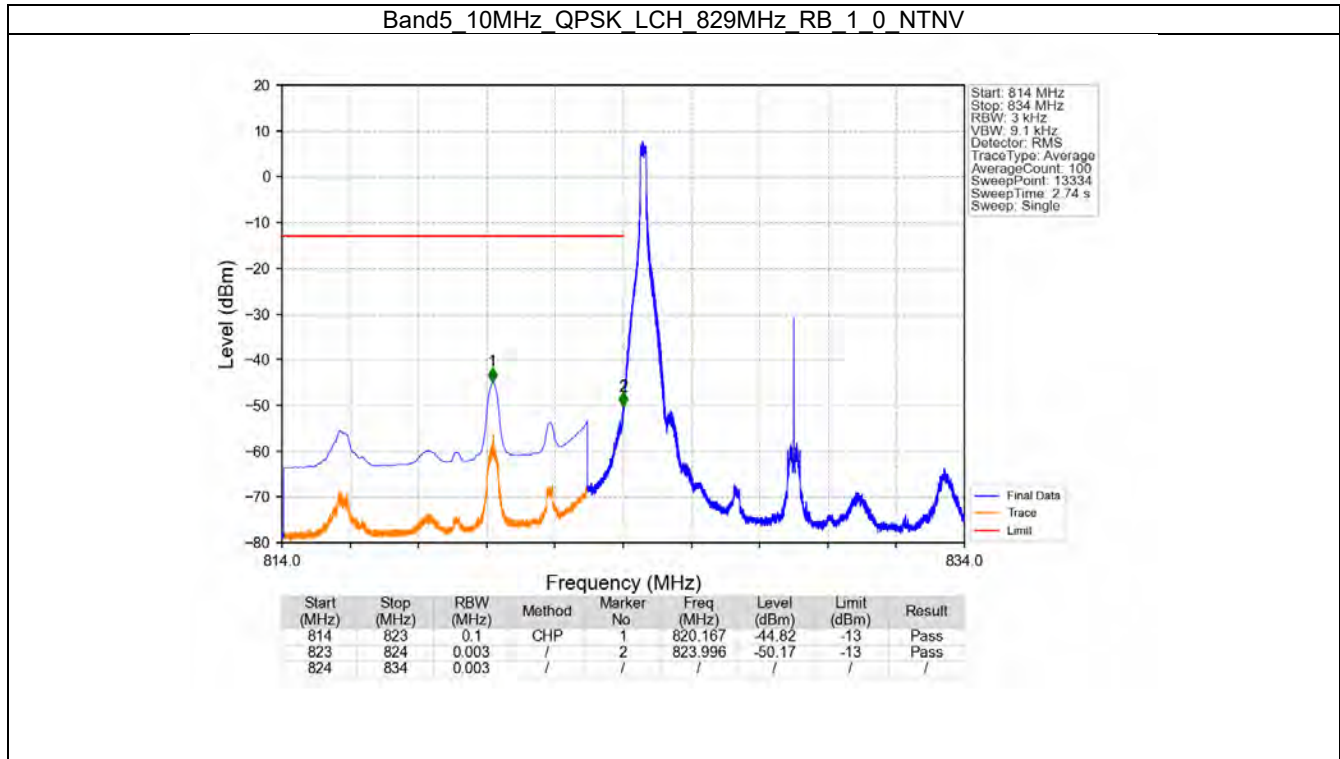


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5.4.2 Test Graph



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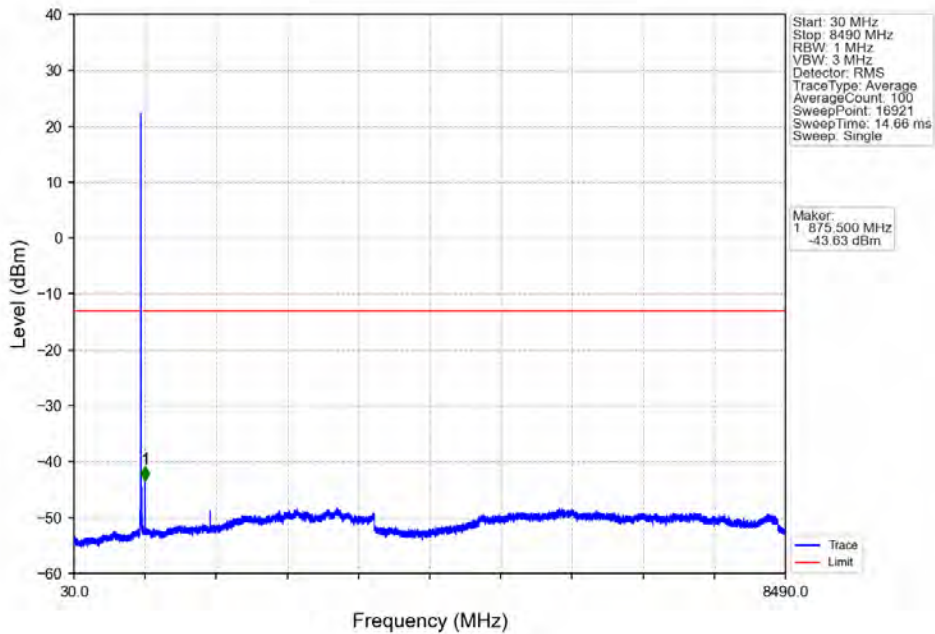
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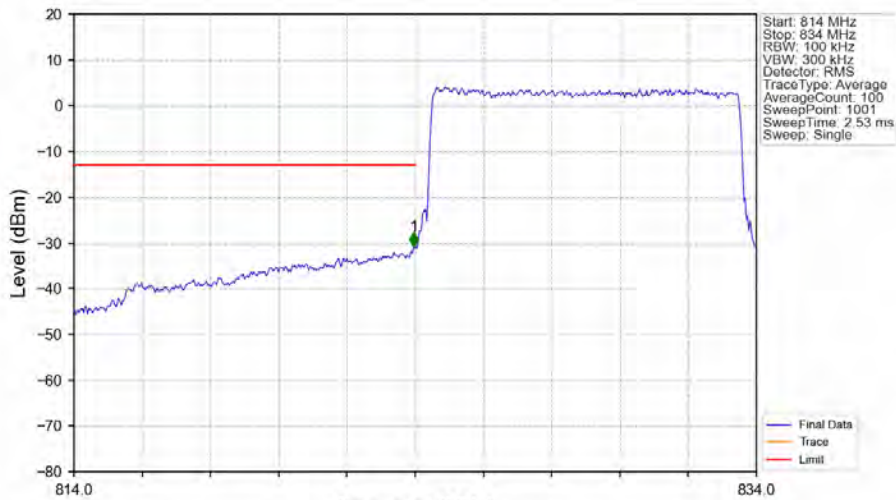
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	823.960	-30.80	-13	Pass
824	834	0.1	/	/	/	/	/	/



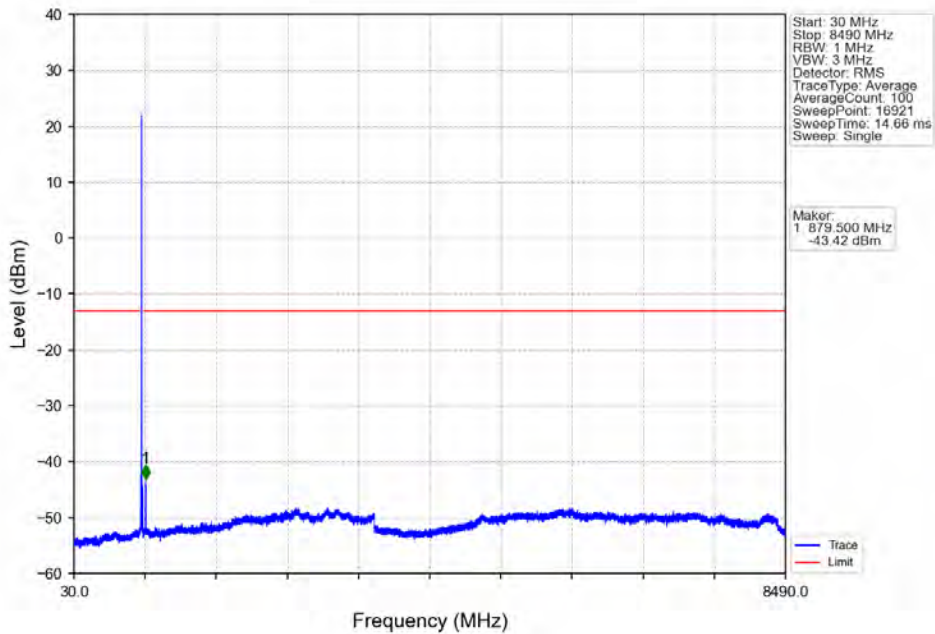
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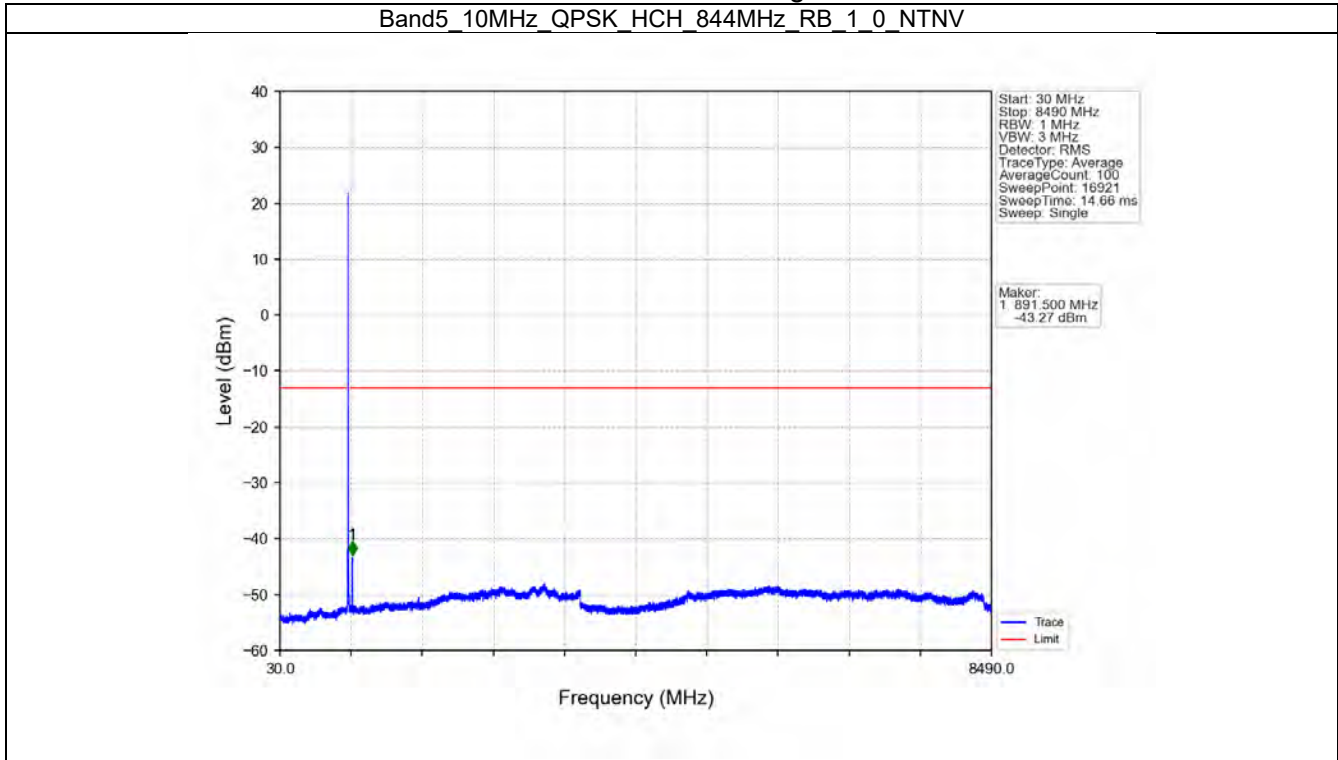
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Report No.: SUCR240400011301

Rev.: 01

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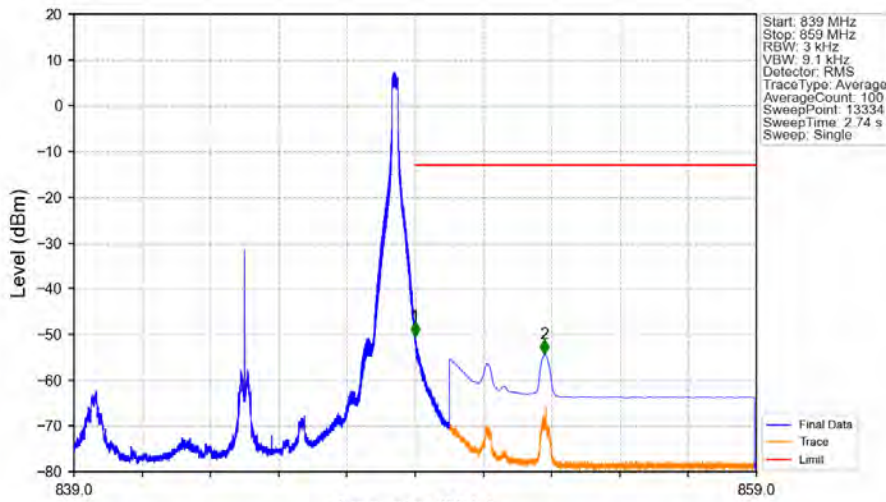
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839	849	0.003	/	1	849.001	-50.44	-13	Pass
849	850	0.003	/	/	/	/	/	/
850	859	0.1	CHP	2	852.793	-54.24	-13	Pass

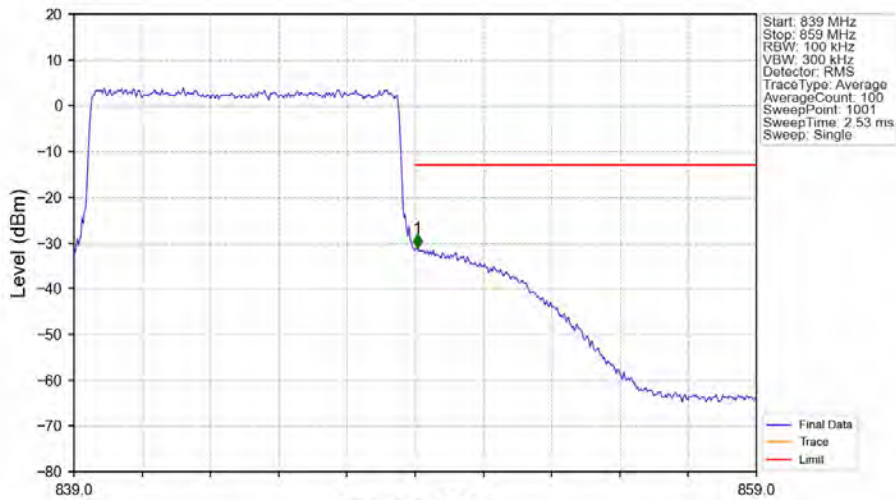


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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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	849.060	-31.15	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	50.32	-46.66	24.60	-67.00	-13.00	54.00	Horizontal
2	2473.77	38.16	-45.03	27.34	-74.79	-13.00	61.79	Horizontal
3	3298.36	36.42	-43.57	29.56	-72.85	-13.00	59.85	Horizontal
4	4122.95	35.85	-42.37	31.50	-70.28	-13.00	57.28	Horizontal
5	4947.54	35.10	-41.38	33.08	-68.45	-13.00	55.45	Horizontal
6	5772.13	33.06	-40.27	34.03	-68.45	-13.00	55.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	45.79	-46.66	24.60	-71.53	-13.00	58.53	Vertical
2	2473.77	37.50	-45.03	27.34	-75.45	-13.00	62.45	Vertical
3	3298.36	35.80	-43.57	29.56	-73.47	-13.00	60.47	Vertical
4	4122.95	35.81	-42.37	31.50	-70.32	-13.00	57.32	Vertical
5	4947.54	34.30	-41.38	33.08	-69.25	-13.00	56.25	Vertical
6	5772.13	32.49	-40.27	34.03	-69.02	-13.00	56.02	Vertical



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Test Band = LTE Band 5_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	53.21	-46.62	24.60	-64.07	-13.00	51.07	Horizontal
2	2496.27	39.34	-44.96	27.39	-73.49	-13.00	60.49	Horizontal
3	3328.36	35.67	-43.55	29.57	-73.57	-13.00	60.57	Horizontal
4	4160.45	35.73	-42.36	31.56	-70.34	-13.00	57.34	Horizontal
5	4992.54	35.32	-41.28	33.18	-68.03	-13.00	55.03	Horizontal
6	5824.63	33.69	-40.17	34.20	-67.53	-13.00	54.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	44.84	-46.62	24.60	-72.44	-13.00	59.44	Vertical
2	2496.27	37.06	-44.96	27.39	-75.77	-13.00	62.77	Vertical
3	3328.36	35.43	-43.55	29.57	-73.81	-13.00	60.81	Vertical
4	4160.45	35.29	-42.36	31.56	-70.78	-13.00	57.78	Vertical
5	4992.54	34.88	-41.28	33.18	-68.47	-13.00	55.47	Vertical
6	5824.63	33.85	-40.17	34.20	-67.37	-13.00	54.37	Vertical



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Test Band = LTE Band 5_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	48.52	-46.58	24.60	-68.72	-13.00	55.72	Horizontal
2	2518.77	38.05	-44.95	27.48	-74.68	-13.00	61.68	Horizontal
3	3358.36	36.36	-43.53	29.57	-72.86	-13.00	59.86	Horizontal
4	4197.95	34.72	-42.36	31.62	-71.28	-13.00	58.28	Horizontal
5	5037.54	34.72	-41.27	33.19	-68.62	-13.00	55.62	Horizontal
6	5887.13	33.55	-40.09	34.42	-67.38	-13.00	54.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	40.81	-46.58	24.60	-76.43	-13.00	63.43	Vertical
2	2518.77	36.82	-44.95	27.48	-75.91	-13.00	62.91	Vertical
3	3358.36	35.72	-43.53	29.57	-73.50	-13.00	60.50	Vertical
4	4197.95	34.78	-42.36	31.62	-71.22	-13.00	58.22	Vertical
5	5037.54	34.45	-41.27	33.19	-68.89	-13.00	55.89	Vertical
6	5887.13	33.40	-40.09	34.42	-67.53	-13.00	54.53	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

---End of Attachment---



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