

Appendix Test Data for LTE_band_5

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

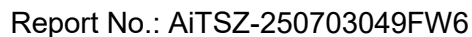
1.1.1 B5_1.4MHz_ERP

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	23.86	-0.71	21.00	<=34.77	Pass
			2	23.92	-0.71	21.06	<=34.77	Pass
			5	23.89	-0.71	21.03	<=34.77	Pass
		3	0	24.46	-0.71	21.60	<=34.77	Pass
			2	24.46	-0.71	21.60	<=34.77	Pass
			3	24.46	-0.71	21.60	<=34.77	Pass
		6	0	23.40	-0.71	20.54	<=34.77	Pass
			0	23.76	-0.71	20.90	<=34.77	Pass
			0	23.76	-0.71	20.90	<=34.77	Pass
	836.5	1	0	23.76	-0.71	20.90	<=34.77	Pass
			2	23.81	-0.71	20.95	<=34.77	Pass
			5	23.79	-0.71	20.93	<=34.77	Pass
		3	0	24.32	-0.71	21.46	<=34.77	Pass
			2	24.37	-0.71	21.51	<=34.77	Pass
			3	24.32	-0.71	21.46	<=34.77	Pass
		6	0	23.35	-0.71	20.49	<=34.77	Pass
			0	23.81	-0.71	20.95	<=34.77	Pass
			0	23.81	-0.71	20.95	<=34.77	Pass
	848.3	1	0	23.81	-0.71	20.95	<=34.77	Pass
			2	23.83	-0.71	20.97	<=34.77	Pass
			5	23.84	-0.71	20.98	<=34.77	Pass
		3	0	24.38	-0.71	21.52	<=34.77	Pass
			2	24.40	-0.71	21.54	<=34.77	Pass
			3	24.41	-0.71	21.55	<=34.77	Pass
		6	0	23.34	-0.71	20.48	<=34.77	Pass
16QAM	824.7	1	0	22.93	-0.71	20.07	<=34.77	Pass
			2	22.97	-0.71	20.11	<=34.77	Pass
			5	22.96	-0.71	20.10	<=34.77	Pass
		3	0	23.44	-0.71	20.58	<=34.77	Pass
			2	23.43	-0.71	20.57	<=34.77	Pass
			3	23.43	-0.71	20.57	<=34.77	Pass
		6	0	22.31	-0.71	19.45	<=34.77	Pass
			0	22.98	-0.71	20.12	<=34.77	Pass
			0	22.98	-0.71	20.12	<=34.77	Pass
	836.5	1	0	23.04	-0.71	20.18	<=34.77	Pass
			2	23.04	-0.71	20.18	<=34.77	Pass
			5	23.00	-0.71	20.14	<=34.77	Pass
		3	0	23.29	-0.71	20.43	<=34.77	Pass
			2	23.36	-0.71	20.50	<=34.77	Pass
			3	23.34	-0.71	20.48	<=34.77	Pass
		6	0	22.37	-0.71	19.51	<=34.77	Pass
			0	22.88	-0.71	20.02	<=34.77	Pass
			0	22.88	-0.71	20.02	<=34.77	Pass
	848.3	1	0	22.88	-0.71	20.02	<=34.77	Pass
			2	22.84	-0.71	19.98	<=34.77	Pass
			5	22.93	-0.71	20.07	<=34.77	Pass
		3	0	23.36	-0.71	20.50	<=34.77	Pass
			2	23.34	-0.71	20.48	<=34.77	Pass
			3	23.34	-0.71	20.48	<=34.77	Pass
		6	0	22.22	-0.71	19.36	<=34.77	Pass
			0	22.22	-0.71	19.36	<=34.77	Pass
			0	22.22	-0.71	19.36	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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	23.89	-0.71	21.03	<=34.77	Pass		
			7	23.92	-0.71	21.06	<=34.77	Pass		
			14	23.96	-0.71	21.10	<=34.77	Pass		
		8	0	23.36	-0.71	20.50	<=34.77	Pass		
			4	23.38	-0.71	20.52	<=34.77	Pass		
			7	23.41	-0.71	20.55	<=34.77	Pass		
		15	0	23.41	-0.71	20.55	<=34.77	Pass		
		836.5	1	0	23.74	-0.71	20.88	<=34.77	Pass	
				7	23.82	-0.71	20.96	<=34.77	Pass	
	14			23.78	-0.71	20.92	<=34.77	Pass		
	8		0	23.33	-0.71	20.47	<=34.77	Pass		
			4	23.32	-0.71	20.46	<=34.77	Pass		
			7	23.37	-0.71	20.51	<=34.77	Pass		
	15		0	23.36	-0.71	20.50	<=34.77	Pass		
	847.5		1	0	23.80	-0.71	20.94	<=34.77	Pass	
				7	23.83	-0.71	20.97	<=34.77	Pass	
		14		23.83	-0.71	20.97	<=34.77	Pass		
		8	0	23.25	-0.71	20.39	<=34.77	Pass		
			4	23.26	-0.71	20.40	<=34.77	Pass		
			7	23.25	-0.71	20.39	<=34.77	Pass		
		15	0	23.27	-0.71	20.41	<=34.77	Pass		
		16QAM	825.5	1	0	22.95	-0.71	20.09	<=34.77	Pass
					7	22.96	-0.71	20.10	<=34.77	Pass
	14				22.98	-0.71	20.12	<=34.77	Pass	
8	0			22.46	-0.71	19.60	<=34.77	Pass		
	4			22.45	-0.71	19.59	<=34.77	Pass		
	7			22.46	-0.71	19.60	<=34.77	Pass		
15	0			22.44	-0.71	19.58	<=34.77	Pass		
836.5	1			0	23.01	-0.71	20.15	<=34.77	Pass	
				7	23.06	-0.71	20.20	<=34.77	Pass	
			14	22.99	-0.71	20.13	<=34.77	Pass		
	8		0	22.31	-0.71	19.45	<=34.77	Pass		
			4	22.30	-0.71	19.44	<=34.77	Pass		
			7	22.35	-0.71	19.49	<=34.77	Pass		
	15		0	22.32	-0.71	19.46	<=34.77	Pass		
	847.5		1	0	23.27	-0.71	20.41	<=34.77	Pass	
				7	23.30	-0.71	20.44	<=34.77	Pass	
14				23.32	-0.71	20.46	<=34.77	Pass		
8			0	22.47	-0.71	19.61	<=34.77	Pass		
			4	22.47	-0.71	19.61	<=34.77	Pass		
			7	22.47	-0.71	19.61	<=34.77	Pass		
15			0	22.36	-0.71	19.50	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15										



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	23.99	-0.71	21.13	<=34.77	Pass		
			13	23.96	-0.71	21.10	<=34.77	Pass		
			24	23.99	-0.71	21.13	<=34.77	Pass		
		12	0	23.41	-0.71	20.55	<=34.77	Pass		
			6	23.41	-0.71	20.55	<=34.77	Pass		
			13	23.38	-0.71	20.52	<=34.77	Pass		
		25	0	23.38	-0.71	20.52	<=34.77	Pass		
		836.5	1	0	23.85	-0.71	20.99	<=34.77	Pass	
				13	23.82	-0.71	20.96	<=34.77	Pass	
	24			23.84	-0.71	20.98	<=34.77	Pass		
	12		0	23.33	-0.71	20.47	<=34.77	Pass		
			6	23.31	-0.71	20.45	<=34.77	Pass		
			13	23.35	-0.71	20.49	<=34.77	Pass		
	25	0	23.32	-0.71	20.46	<=34.77	Pass			
	846.5	1	0	23.96	-0.71	21.10	<=34.77	Pass		
			13	23.98	-0.71	21.12	<=34.77	Pass		
			24	24.08	-0.71	21.22	<=34.77	Pass		
		12	0	23.33	-0.71	20.47	<=34.77	Pass		
			6	23.29	-0.71	20.43	<=34.77	Pass		
			13	23.22	-0.71	20.36	<=34.77	Pass		
		25	0	23.26	-0.71	20.40	<=34.77	Pass		
		16QAM	826.5	1	0	23.07	-0.71	20.21	<=34.77	Pass
					13	23.01	-0.71	20.15	<=34.77	Pass
	24				23.02	-0.71	20.16	<=34.77	Pass	
12	0			22.40	-0.71	19.54	<=34.77	Pass		
	6			22.40	-0.71	19.54	<=34.77	Pass		
	13			22.36	-0.71	19.50	<=34.77	Pass		
25	0			22.44	-0.71	19.58	<=34.77	Pass		
836.5	1			0	23.12	-0.71	20.26	<=34.77	Pass	
				13	23.08	-0.71	20.22	<=34.77	Pass	
			24	23.11	-0.71	20.25	<=34.77	Pass		
	12		0	22.32	-0.71	19.46	<=34.77	Pass		
			6	22.35	-0.71	19.49	<=34.77	Pass		
			13	22.37	-0.71	19.51	<=34.77	Pass		
25	0		22.33	-0.71	19.47	<=34.77	Pass			
846.5	1		0	22.69	-0.71	19.83	<=34.77	Pass		
			13	22.62	-0.71	19.76	<=34.77	Pass		
			24	22.78	-0.71	19.92	<=34.77	Pass		
	12		0	22.34	-0.71	19.48	<=34.77	Pass		
			6	22.29	-0.71	19.43	<=34.77	Pass		
			13	22.22	-0.71	19.36	<=34.77	Pass		
	25		0	22.30	-0.71	19.44	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									



1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTVN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	829	1	0	23.94	-0.71	21.08	<=34.77	Pass		
			25	23.88	-0.71	21.02	<=34.77	Pass		
			49	23.88	-0.71	21.02	<=34.77	Pass		
		25	0	23.42	-0.71	20.56	<=34.77	Pass		
			13	23.38	-0.71	20.52	<=34.77	Pass		
			25	23.39	-0.71	20.53	<=34.77	Pass		
		50	0	23.41	-0.71	20.55	<=34.77	Pass		
		836.5	1	0	23.84	-0.71	20.98	<=34.77	Pass	
				25	23.82	-0.71	20.96	<=34.77	Pass	
	49			23.79	-0.71	20.93	<=34.77	Pass		
	25		0	23.26	-0.71	20.40	<=34.77	Pass		
			13	23.30	-0.71	20.44	<=34.77	Pass		
			25	23.35	-0.71	20.49	<=34.77	Pass		
	50	0	23.38	-0.71	20.52	<=34.77	Pass			
	844	1	0	23.81	-0.71	20.95	<=34.77	Pass		
			25	23.75	-0.71	20.89	<=34.77	Pass		
			49	23.84	-0.71	20.98	<=34.77	Pass		
		25	0	23.26	-0.71	20.40	<=34.77	Pass		
			13	23.23	-0.71	20.37	<=34.77	Pass		
			25	23.19	-0.71	20.33	<=34.77	Pass		
		50	0	23.24	-0.71	20.38	<=34.77	Pass		
		16QAM	829	1	0	22.93	-0.71	20.07	<=34.77	Pass
					25	22.87	-0.71	20.01	<=34.77	Pass
	49				22.88	-0.71	20.02	<=34.77	Pass	
25	0			22.51	-0.71	19.65	<=34.77	Pass		
	13			22.46	-0.71	19.60	<=34.77	Pass		
	25			22.46	-0.71	19.60	<=34.77	Pass		
50	0			22.42	-0.71	19.56	<=34.77	Pass		
836.5	1			0	23.06	-0.71	20.20	<=34.77	Pass	
				25	22.99	-0.71	20.13	<=34.77	Pass	
			49	22.96	-0.71	20.10	<=34.77	Pass		
	25		0	22.32	-0.71	19.46	<=34.77	Pass		
			13	22.33	-0.71	19.47	<=34.77	Pass		
			25	22.37	-0.71	19.51	<=34.77	Pass		
50	0		22.35	-0.71	19.49	<=34.77	Pass			
844	1		0	23.30	-0.71	20.44	<=34.77	Pass		
			25	23.22	-0.71	20.36	<=34.77	Pass		
			49	23.30	-0.71	20.44	<=34.77	Pass		
	25		0	22.29	-0.71	19.43	<=34.77	Pass		
			13	22.30	-0.71	19.44	<=34.77	Pass		
			25	22.23	-0.71	19.37	<=34.77	Pass		
	50		0	22.23	-0.71	19.37	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Test Result

2.1.1 B5_1.4MHz

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	3.27	-5.450	-0.0066	-2.5 to 2.5	Pass
					3.85	2.246	0.0027	-2.5 to 2.5	Pass
					4.43	-2.589	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-2.031	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-7.124	-0.0086	-2.5 to 2.5	Pass
				-10	3.85	3.304	0.0040	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0091	-2.5 to 2.5	Pass
				10	3.85	1.988	0.0024	-2.5 to 2.5	Pass
				30	3.85	-6.967	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-8.698	-0.0105	-2.5 to 2.5	Pass
				50	3.85	6.051	0.0073	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	1.101	0.0013	-2.5 to 2.5	Pass
					3.85	2.303	0.0028	-2.5 to 2.5	Pass
					4.43	-6.795	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	2.346	0.0028	-2.5 to 2.5	Pass
				-20	3.85	-2.489	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-5.836	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-1.259	-0.0015	-2.5 to 2.5	Pass
				10	3.85	4.377	0.0052	-2.5 to 2.5	Pass
				30	3.85	4.520	0.0054	-2.5 to 2.5	Pass
				40	3.85	-5.965	-0.0071	-2.5 to 2.5	Pass
				50	3.85	3.519	0.0042	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-9.055	-0.0107	-2.5 to 2.5	Pass
					3.85	8.368	0.0099	-2.5 to 2.5	Pass
					4.43	-5.522	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-2.389	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	5.636	0.0066	-2.5 to 2.5	Pass
				-10	3.85	5.665	0.0067	-2.5 to 2.5	Pass
				0	3.85	-7.195	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-9.012	-0.0106	-2.5 to 2.5	Pass
				30	3.85	-7.095	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-4.163	-0.0049	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	3.591	0.0044	-2.5 to 2.5	Pass
					3.85	-0.014	0.0000	-2.5 to 2.5	Pass
					4.43	-8.411	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				-20	3.85	4.764	0.0058	-2.5 to 2.5	Pass
				-10	3.85	-6.566	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-5.708	-0.0069	-2.5 to 2.5	Pass
				10	3.85	4.678	0.0057	-2.5 to 2.5	Pass
				30	3.85	1.359	0.0016	-2.5 to 2.5	Pass
				40	3.85	1.817	0.0022	-2.5 to 2.5	Pass
				50	3.85	3.805	0.0046	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-5.593	-0.0067	-2.5 to 2.5	Pass
					3.85	2.775	0.0033	-2.5 to 2.5	Pass
					4.43	0.801	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-2.689	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	7.224	0.0086	-2.5 to 2.5	Pass

				-10	3.85	7.653	0.0091	-2.5 to 2.5	Pass
				0	3.85	0.315	0.0004	-2.5 to 2.5	Pass
				10	3.85	-5.679	-0.0068	-2.5 to 2.5	Pass
				30	3.85	4.377	0.0052	-2.5 to 2.5	Pass
				40	3.85	-2.460	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	4.091	0.0048	-2.5 to 2.5	Pass
					3.85	-3.791	-0.0045	-2.5 to 2.5	Pass
					4.43	-1.001	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-1.202	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	7.224	0.0085	-2.5 to 2.5	Pass
				-10	3.85	-3.719	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-2.346	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-3.633	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-1.702	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-4.377	-0.0052	-2.5 to 2.5	Pass
				50	3.85	7.296	0.0086	-2.5 to 2.5	Pass

2.1.2 B5_3MHz

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	3.27	-2.589	-0.0031	-2.5 to 2.5	Pass
					3.85	-3.819	-0.0046	-2.5 to 2.5	Pass
					4.43	-0.072	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				-20	3.85	7.167	0.0087	-2.5 to 2.5	Pass
				-10	3.85	0.515	0.0006	-2.5 to 2.5	Pass
				0	3.85	5.608	0.0068	-2.5 to 2.5	Pass
				10	3.85	-2.761	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-1.016	-0.0012	-2.5 to 2.5	Pass
				40	3.85	5.336	0.0065	-2.5 to 2.5	Pass
				50	3.85	-6.995	-0.0085	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-0.601	-0.0007	-2.5 to 2.5	Pass
					3.85	-8.826	-0.0106	-2.5 to 2.5	Pass
					4.43	3.891	0.0047	-2.5 to 2.5	Pass
				-30	3.85	1.774	0.0021	-2.5 to 2.5	Pass
				-20	3.85	-4.163	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-8.526	-0.0102	-2.5 to 2.5	Pass
				0	3.85	3.862	0.0046	-2.5 to 2.5	Pass
				10	3.85	4.406	0.0053	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass
				40	3.85	1.988	0.0024	-2.5 to 2.5	Pass
				50	3.85	-7.310	-0.0087	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-4.005	-0.0047	-2.5 to 2.5	Pass
					3.85	5.507	0.0065	-2.5 to 2.5	Pass
					4.43	-3.090	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-1.745	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	3.362	0.0040	-2.5 to 2.5	Pass
				-10	3.85	-0.672	-0.0008	-2.5 to 2.5	Pass
				0	3.85	4.606	0.0054	-2.5 to 2.5	Pass
				10	3.85	3.920	0.0046	-2.5 to 2.5	Pass
				30	3.85	-0.429	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-6.180	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-3.977	-0.0047	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-6.995	-0.0085	-2.5 to 2.5	Pass
					3.85	-3.891	-0.0047	-2.5 to 2.5	Pass

					4.43	3.648	0.0044	-2.5 to 2.5	Pass
				-30	3.85	3.777	0.0046	-2.5 to 2.5	Pass
				-20	3.85	2.432	0.0029	-2.5 to 2.5	Pass
				-10	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0010	-2.5 to 2.5	Pass
				10	3.85	2.789	0.0034	-2.5 to 2.5	Pass
				30	3.85	2.847	0.0034	-2.5 to 2.5	Pass
				40	3.85	-7.024	-0.0085	-2.5 to 2.5	Pass
				50	3.85	0.987	0.0012	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-0.143	-0.0002	-2.5 to 2.5	Pass
					3.85	1.616	0.0019	-2.5 to 2.5	Pass
					4.43	-5.751	-0.0069	-2.5 to 2.5	Pass
				-30	3.85	-2.804	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-1.545	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-0.601	-0.0007	-2.5 to 2.5	Pass
				0	3.85	1.273	0.0015	-2.5 to 2.5	Pass
				10	3.85	-5.150	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-3.390	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-4.621	-0.0055	-2.5 to 2.5	Pass
	847.5	15	0	50	3.85	-3.333	-0.0040	-2.5 to 2.5	Pass
				20	3.27	4.764	0.0056	-2.5 to 2.5	Pass
					3.85	-6.909	-0.0082	-2.5 to 2.5	Pass
					4.43	-2.818	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	4.735	0.0056	-2.5 to 2.5	Pass
				-20	3.85	7.210	0.0085	-2.5 to 2.5	Pass
				-10	3.85	-7.997	-0.0094	-2.5 to 2.5	Pass
				0	3.85	1.616	0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.930	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-5.493	-0.0065	-2.5 to 2.5	Pass
				40	3.85	3.190	0.0038	-2.5 to 2.5	Pass
				50	3.85	0.830	0.0010	-2.5 to 2.5	Pass

2.1.3 B5_5MHz

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	3.27	-2.346	-0.0028	-2.5 to 2.5	Pass
					3.85	-1.044	-0.0013	-2.5 to 2.5	Pass
					4.43	0.987	0.0012	-2.5 to 2.5	Pass
				-30	3.85	3.963	0.0048	-2.5 to 2.5	Pass
				-20	3.85	0.272	0.0003	-2.5 to 2.5	Pass
				-10	3.85	2.618	0.0032	-2.5 to 2.5	Pass
				0	3.85	1.302	0.0016	-2.5 to 2.5	Pass
				10	3.85	4.478	0.0054	-2.5 to 2.5	Pass
				30	3.85	2.818	0.0034	-2.5 to 2.5	Pass
				40	3.85	5.736	0.0069	-2.5 to 2.5	Pass
				50	3.85	2.604	0.0032	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-7.882	-0.0094	-2.5 to 2.5	Pass
					3.85	4.292	0.0051	-2.5 to 2.5	Pass
					4.43	-0.858	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	8.454	0.0101	-2.5 to 2.5	Pass
				-20	3.85	2.031	0.0024	-2.5 to 2.5	Pass
				-10	3.85	-5.450	-0.0065	-2.5 to 2.5	Pass
				0	3.85	2.246	0.0027	-2.5 to 2.5	Pass
				10	3.85	-3.762	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-4.463	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-2.460	-0.0029	-2.5 to 2.5	Pass

	846.5	25	0	50	3.85	1.416	0.0017	-2.5 to 2.5	Pass
				20	3.27	0.772	0.0009	-2.5 to 2.5	Pass
					3.85	-8.240	-0.0097	-2.5 to 2.5	Pass
					4.43	-2.832	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-7.596	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-6.509	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-0.887	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-5.922	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-6.237	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-3.133	-0.0037	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	1.760	0.0021	-2.5 to 2.5	Pass
					3.85	1.659	0.0020	-2.5 to 2.5	Pass
					4.43	7.210	0.0087	-2.5 to 2.5	Pass
				-30	3.85	1.731	0.0021	-2.5 to 2.5	Pass
				-20	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-6.037	-0.0073	-2.5 to 2.5	Pass
				0	3.85	4.807	0.0058	-2.5 to 2.5	Pass
				10	3.85	3.119	0.0038	-2.5 to 2.5	Pass
				30	3.85	3.319	0.0040	-2.5 to 2.5	Pass
				40	3.85	-4.849	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-0.987	-0.0012	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	4.220	0.0050	-2.5 to 2.5	Pass
					3.85	0.758	0.0009	-2.5 to 2.5	Pass
					4.43	-3.762	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	7.968	0.0095	-2.5 to 2.5	Pass
				-20	3.85	-0.443	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	2.575	0.0031	-2.5 to 2.5	Pass
				0	3.85	-3.290	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-1.287	-0.0015	-2.5 to 2.5	Pass
				30	3.85	4.148	0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.280	-0.0075	-2.5 to 2.5	Pass
				50	3.85	4.249	0.0051	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-5.465	-0.0065	-2.5 to 2.5	Pass
					3.85	1.230	0.0015	-2.5 to 2.5	Pass
					4.43	-1.688	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	2.732	0.0032	-2.5 to 2.5	Pass
				-20	3.85	3.061	0.0036	-2.5 to 2.5	Pass
				-10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.916	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-3.033	-0.0036	-2.5 to 2.5	Pass
				30	3.85	3.090	0.0037	-2.5 to 2.5	Pass
				40	3.85	3.233	0.0038	-2.5 to 2.5	Pass
				50	3.85	-10.300	-0.0122	-2.5 to 2.5	Pass

2.1.4 B5_10MHz

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	3.27	-1.330	-0.0016	-2.5 to 2.5	Pass
					3.85	-3.204	-0.0039	-2.5 to 2.5	Pass
					4.43	1.774	0.0021	-2.5 to 2.5	Pass
				-30	3.85	-2.074	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-2.060	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-1.845	-0.0022	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0014	-2.5 to 2.5	Pass

				10	3.85	-2.460	-0.0030	-2.5 to 2.5	Pass
				30	3.85	2.589	0.0031	-2.5 to 2.5	Pass
				40	3.85	2.174	0.0026	-2.5 to 2.5	Pass
				50	3.85	-0.558	-0.0007	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	1.431	0.0017	-2.5 to 2.5	Pass
					3.85	-3.848	-0.0046	-2.5 to 2.5	Pass
					4.43	3.963	0.0047	-2.5 to 2.5	Pass
				-30	3.85	-1.459	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.760	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-2.775	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-0.329	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.531	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				50	3.85	0.215	0.0003	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-2.589	-0.0031	-2.5 to 2.5	Pass
					3.85	-2.403	-0.0028	-2.5 to 2.5	Pass
					4.43	0.458	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-1.788	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-3.963	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-1.659	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-3.948	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	2.832	0.0034	-2.5 to 2.5	Pass
					3.85	-0.887	-0.0011	-2.5 to 2.5	Pass
					4.43	-1.645	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-0.558	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	3.233	0.0039	-2.5 to 2.5	Pass
				0	3.85	0.973	0.0012	-2.5 to 2.5	Pass
				10	3.85	1.016	0.0012	-2.5 to 2.5	Pass
				30	3.85	-1.945	-0.0023	-2.5 to 2.5	Pass
				40	3.85	2.532	0.0031	-2.5 to 2.5	Pass
				50	3.85	1.030	0.0012	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-3.047	-0.0036	-2.5 to 2.5	Pass
					3.85	-2.961	-0.0035	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-2.575	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-5.593	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-3.605	-0.0043	-2.5 to 2.5	Pass
				30	3.85	0.787	0.0009	-2.5 to 2.5	Pass
				40	3.85	1.030	0.0012	-2.5 to 2.5	Pass
				50	3.85	-3.505	-0.0042	-2.5 to 2.5	Pass
	844	50	0	20	3.27	0.243	0.0003	-2.5 to 2.5	Pass
					3.85	0.815	0.0010	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	1.960	0.0023	-2.5 to 2.5	Pass
				-20	3.85	-3.061	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-2.832	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-3.104	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-5.565	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-4.406	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-1.373	-0.0016	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B5_1.4MHz

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

3.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass

3.1.3 B5_5MHz

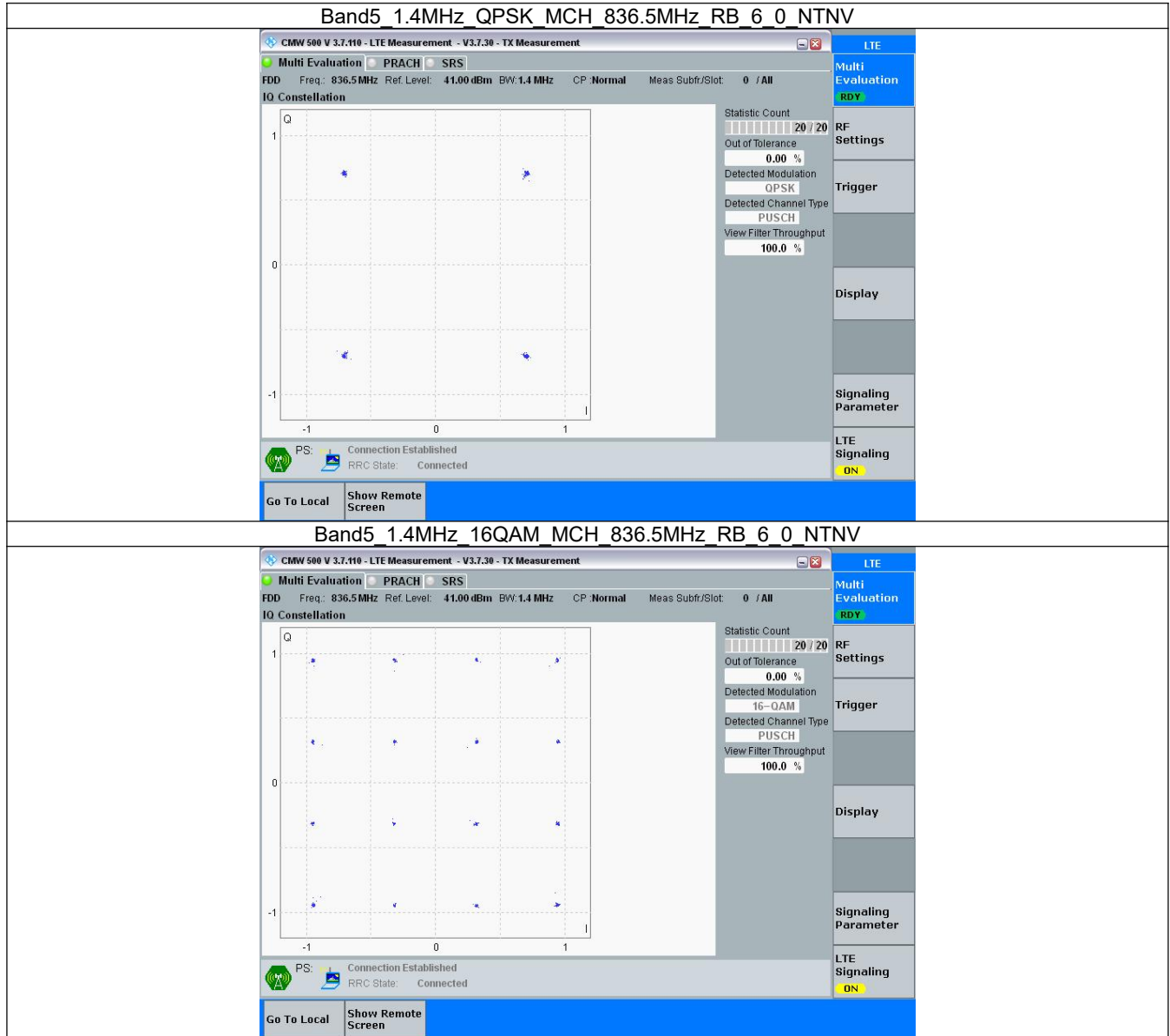
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

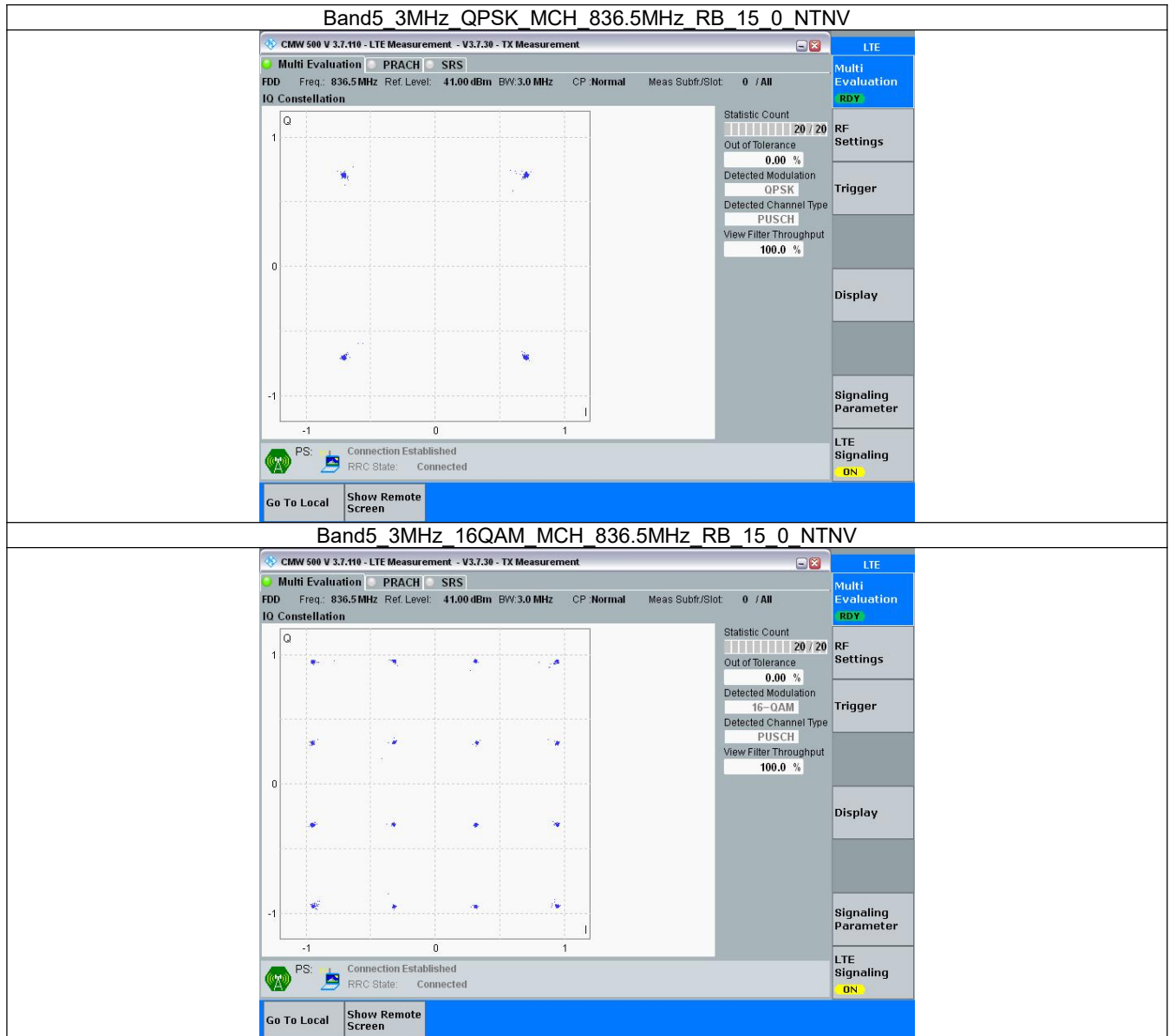
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

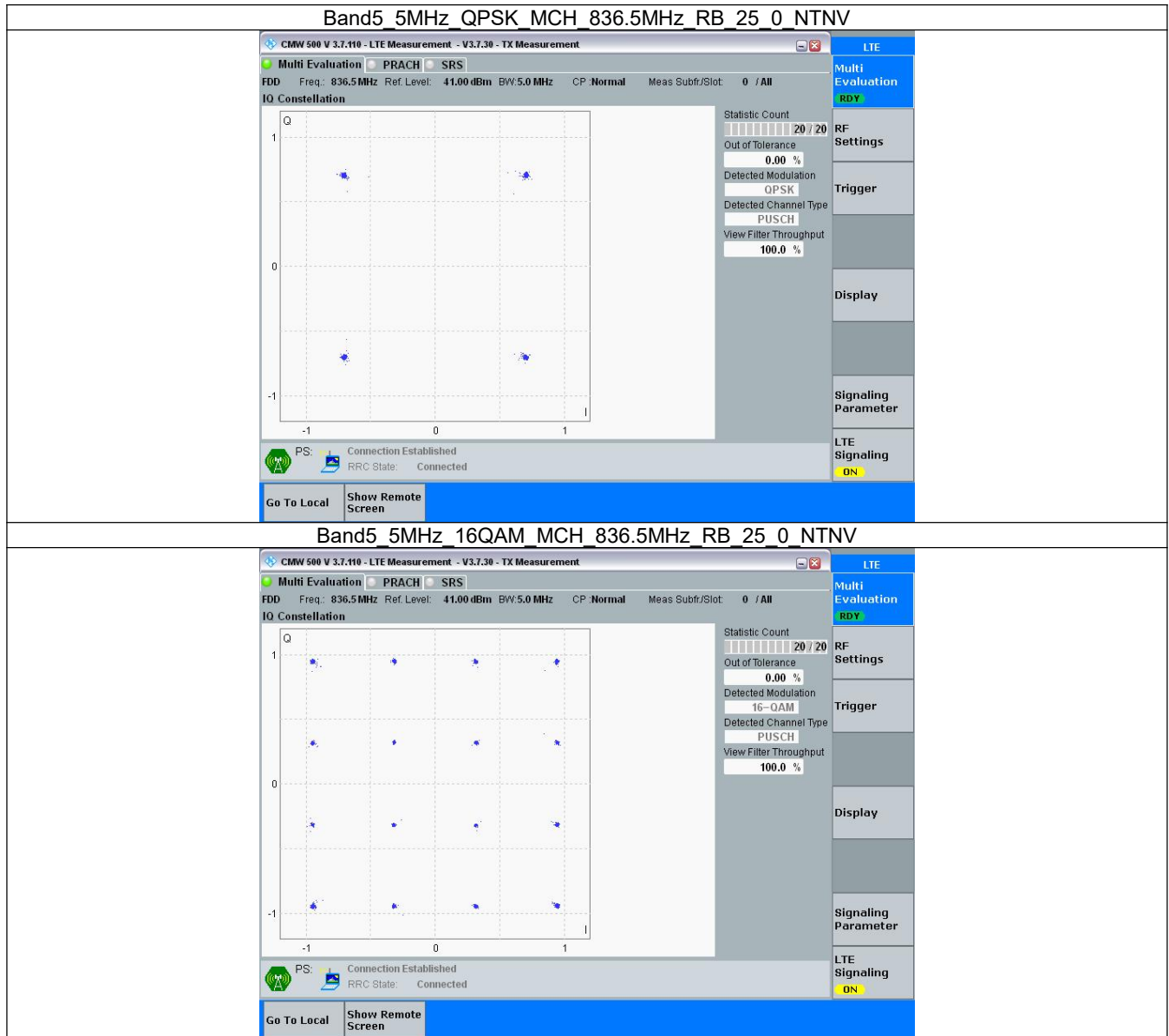
3.2.1 B5_1.4MHz



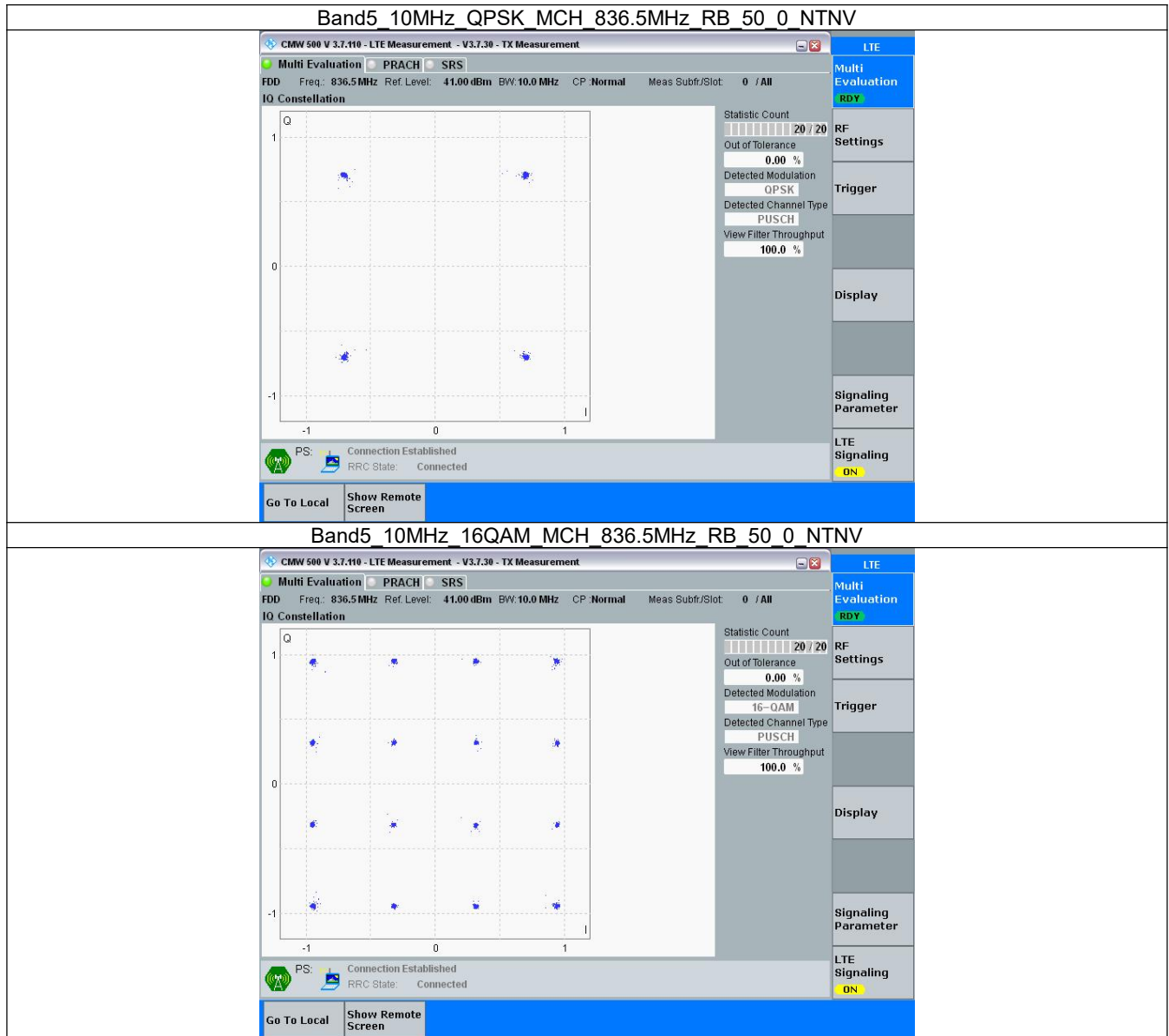
3.2.2 B5_3MHz



3.2.3 B5_5MHz



3.2.4 B5_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band5_OBW

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	1.121	/	Pass
		836.5	6	0	1.112	/	Pass
		848.3	6	0	1.108	/	Pass
	16QAM	824.7	6	0	1.108	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.115	/	Pass
3	QPSK	825.5	15	0	2.731	/	Pass
		836.5	15	0	2.731	/	Pass
		847.5	15	0	2.734	/	Pass
	16QAM	825.5	15	0	2.725	/	Pass
		836.5	15	0	2.733	/	Pass
		847.5	15	0	2.732	/	Pass
5	QPSK	826.5	25	0	4.538	/	Pass
		836.5	25	0	4.538	/	Pass
		846.5	25	0	4.545	/	Pass
	16QAM	826.5	25	0	4.545	/	Pass
		836.5	25	0	4.564	/	Pass
		846.5	25	0	4.523	/	Pass
10	QPSK	829	50	0	9.047	/	Pass
		836.5	50	0	9.033	/	Pass
		844	50	0	9.057	/	Pass
	16QAM	829	50	0	9.040	/	Pass
		836.5	50	0	9.037	/	Pass
		844	50	0	9.053	/	Pass

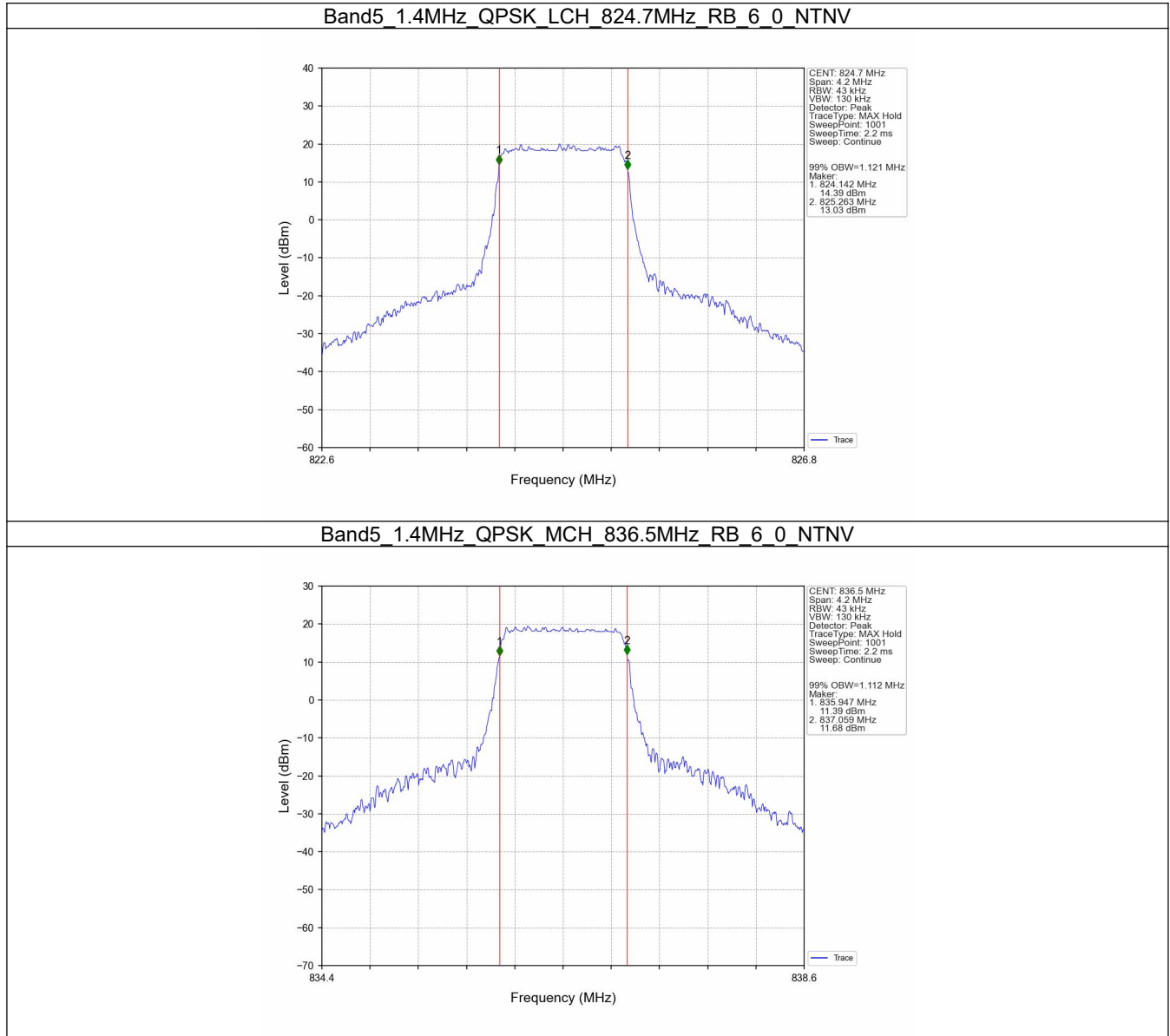
4.1.2 Band5_XDB

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.309	/	Pass
		836.5	6	0	1.337	/	Pass
		848.3	6	0	1.319	/	Pass
	16QAM	824.7	6	0	1.332	/	Pass
		836.5	6	0	1.298	/	Pass
		848.3	6	0	1.304	/	Pass
3	QPSK	825.5	15	0	3.011	/	Pass
		836.5	15	0	2.994	/	Pass
		847.5	15	0	3.019	/	Pass
	16QAM	825.5	15	0	3.032	/	Pass
		836.5	15	0	3.013	/	Pass
		847.5	15	0	3.022	/	Pass
5	QPSK	826.5	25	0	5.019	/	Pass
		836.5	25	0	5.096	/	Pass
		846.5	25	0	5.028	/	Pass
	16QAM	826.5	25	0	5.075	/	Pass
		836.5	25	0	5.039	/	Pass
		846.5	25	0	5.034	/	Pass

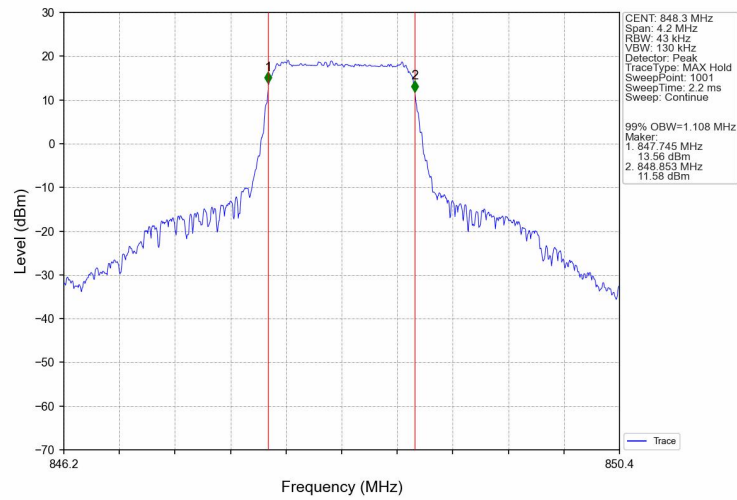
10	QPSK	829	50	0	9.941	/	Pass
		836.5	50	0	9.957	/	Pass
		844	50	0	9.953	/	Pass
	16QAM	829	50	0	9.938	/	Pass
		836.5	50	0	9.957	/	Pass
		844	50	0	9.953	/	Pass

4.2 Test Graph

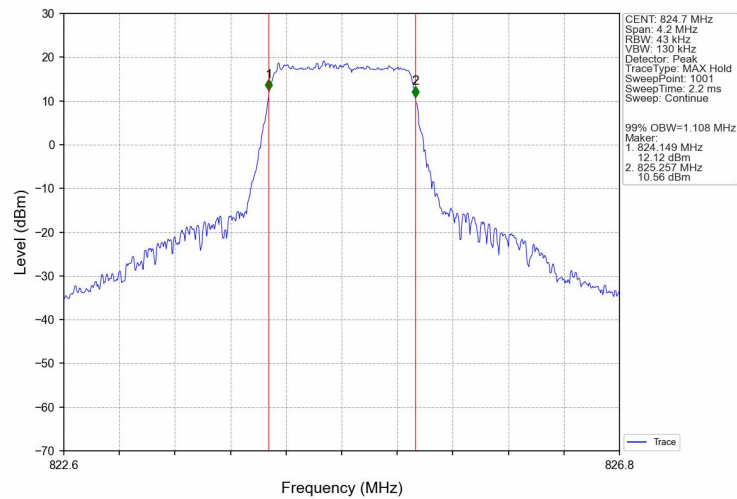
4.2.1 Band5_OBW



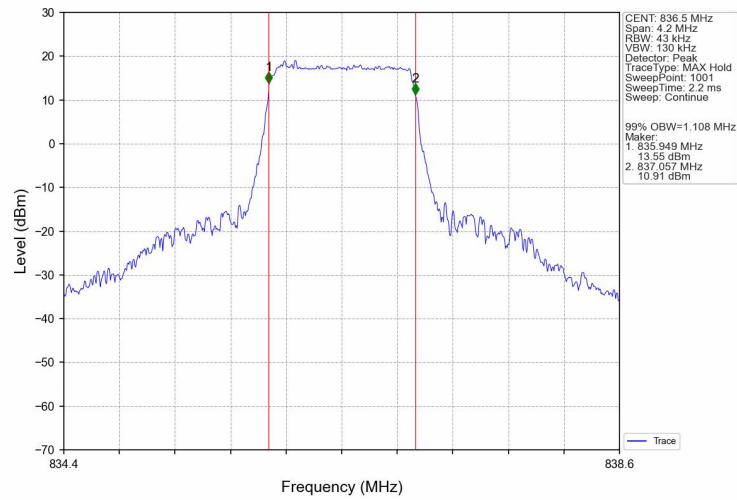
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



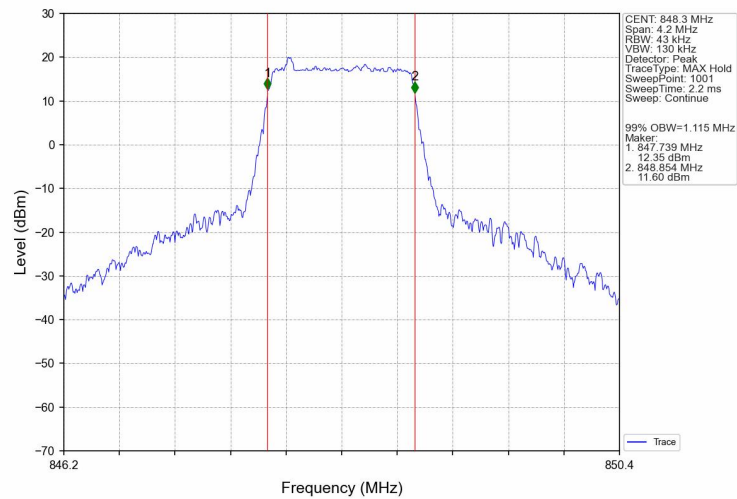
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



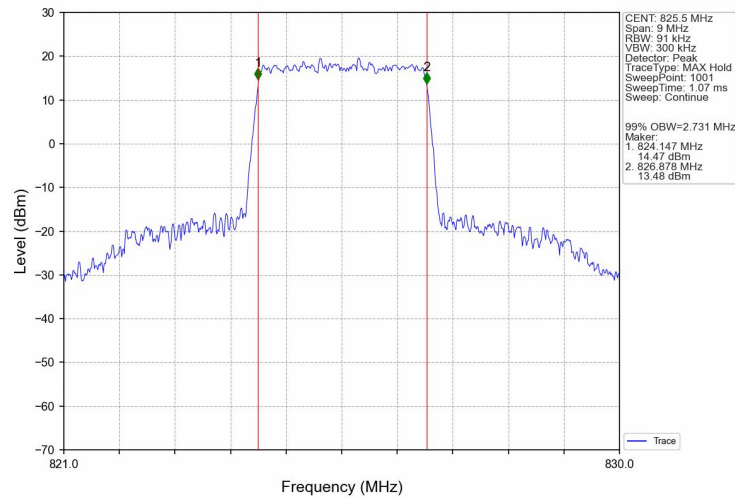
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



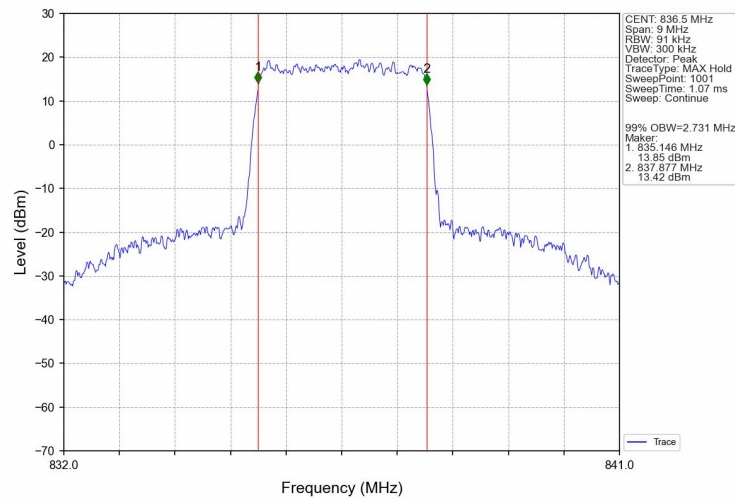
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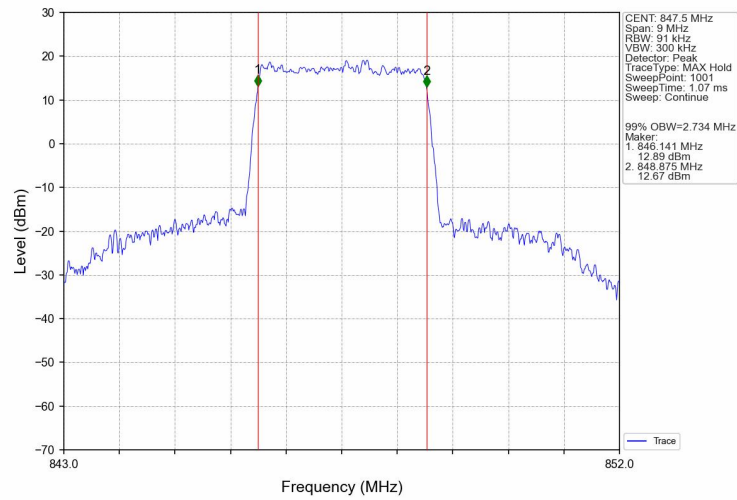
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



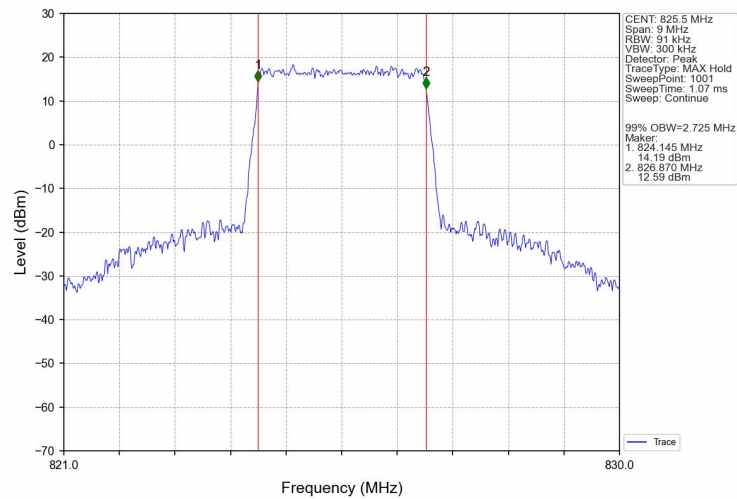
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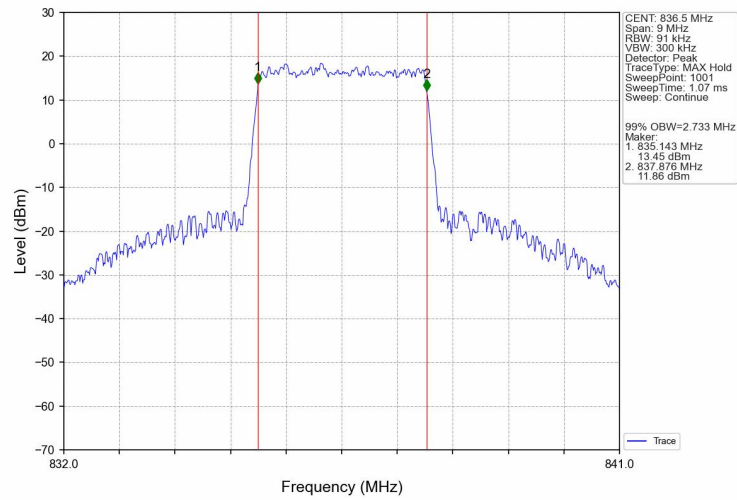
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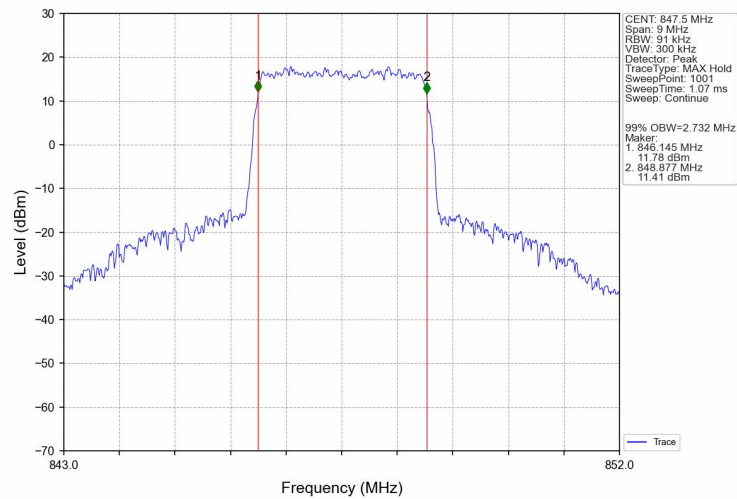
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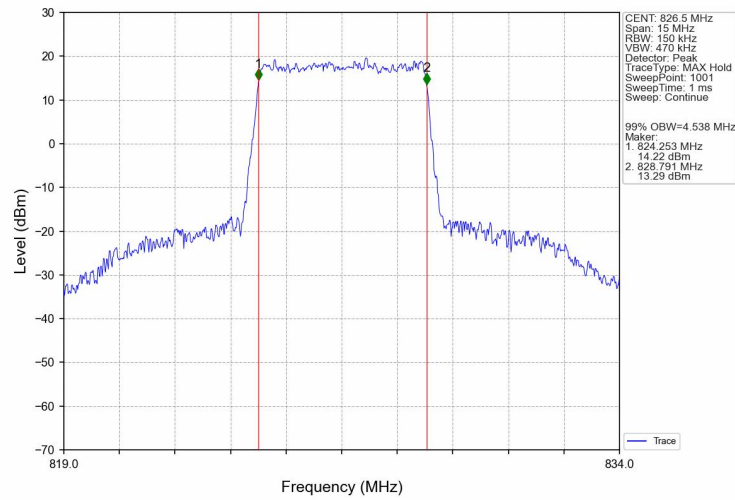
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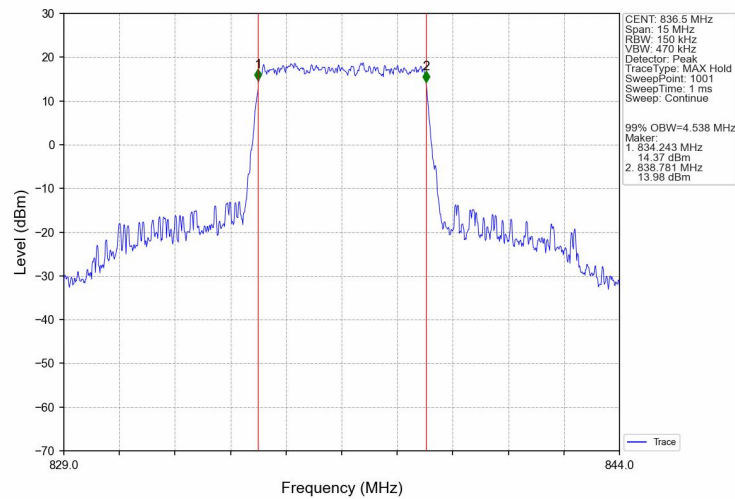
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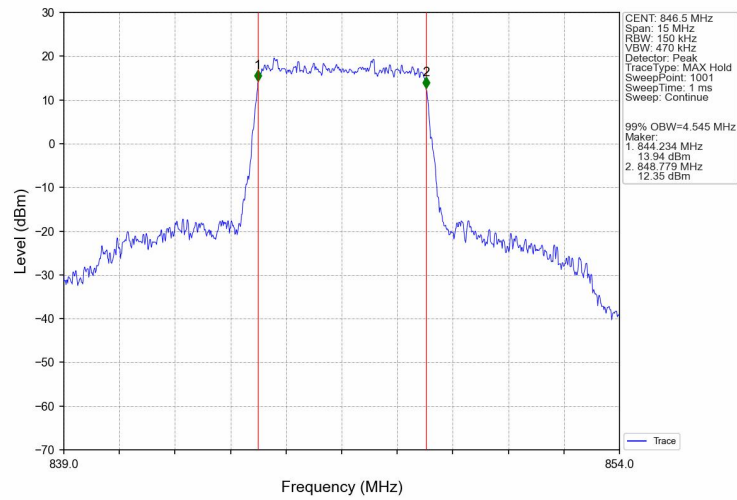
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



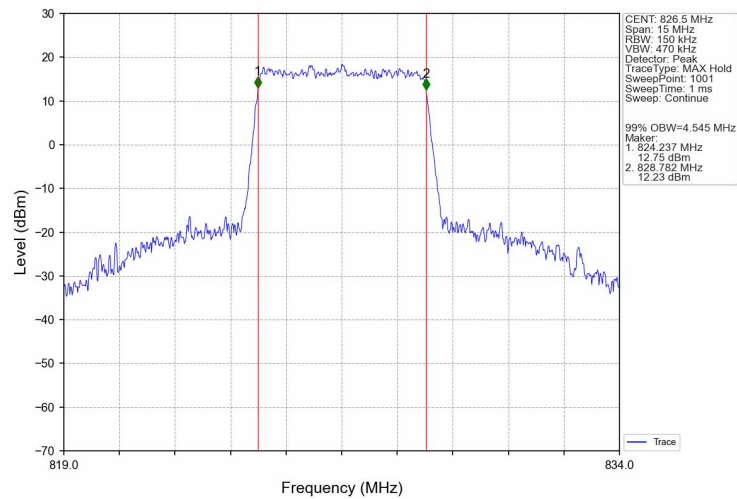
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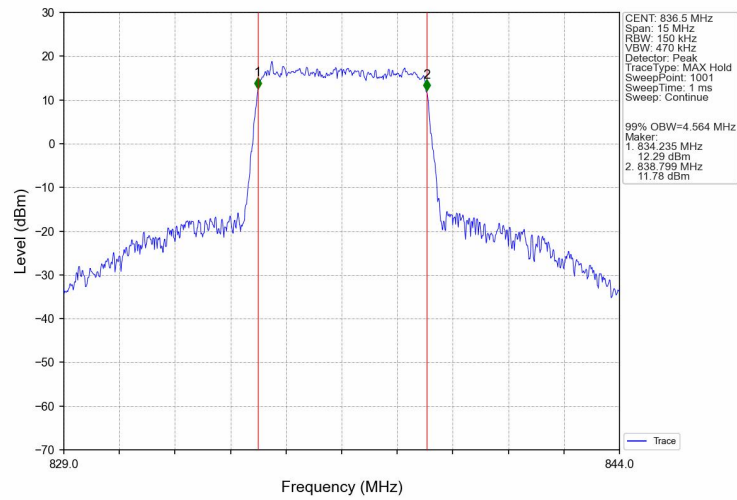
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



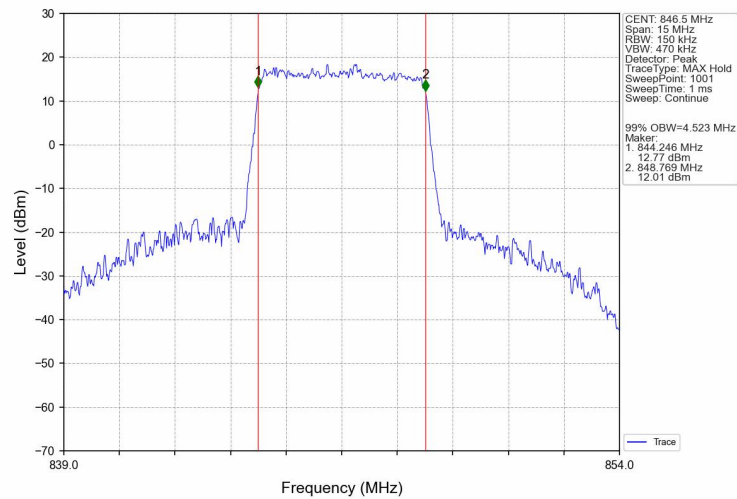
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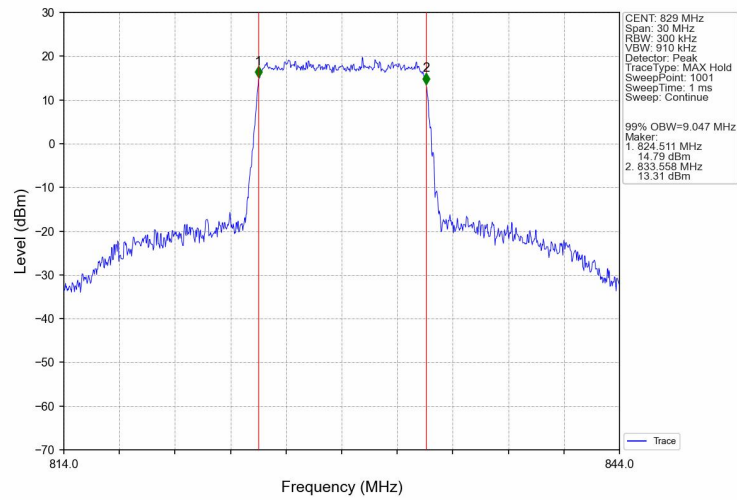
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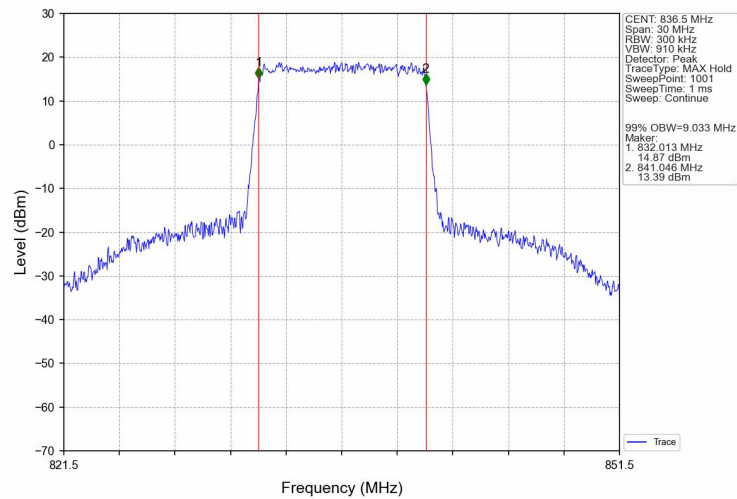
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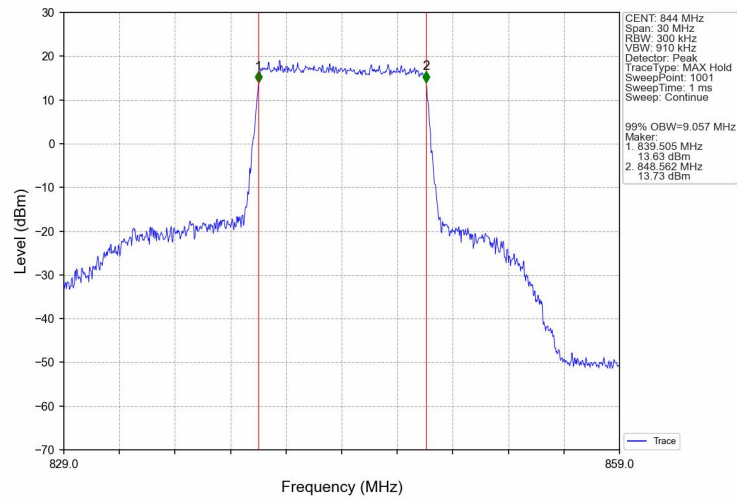
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



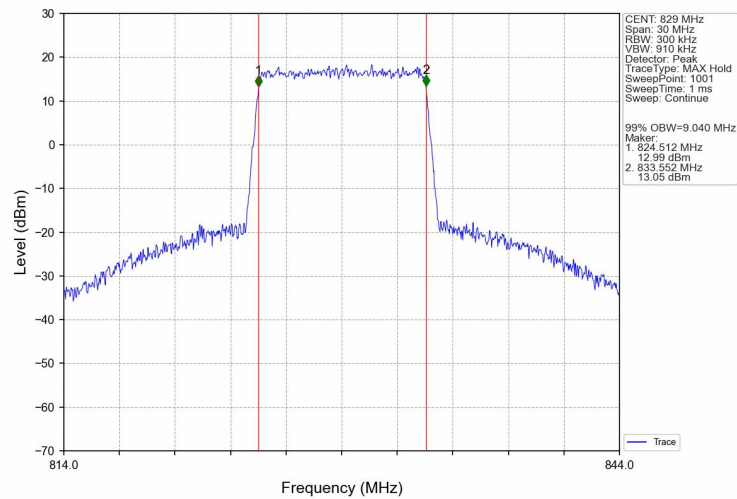
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



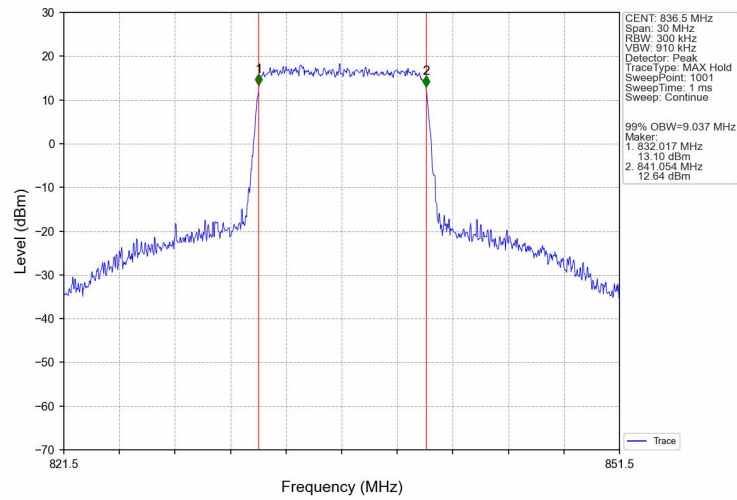
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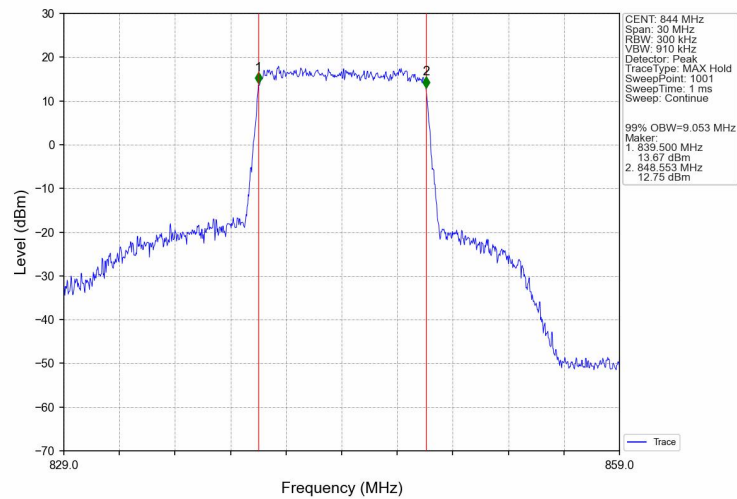
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

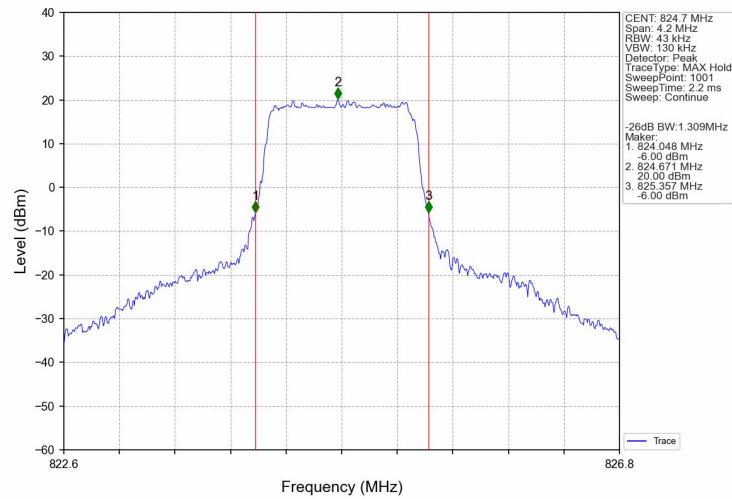


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

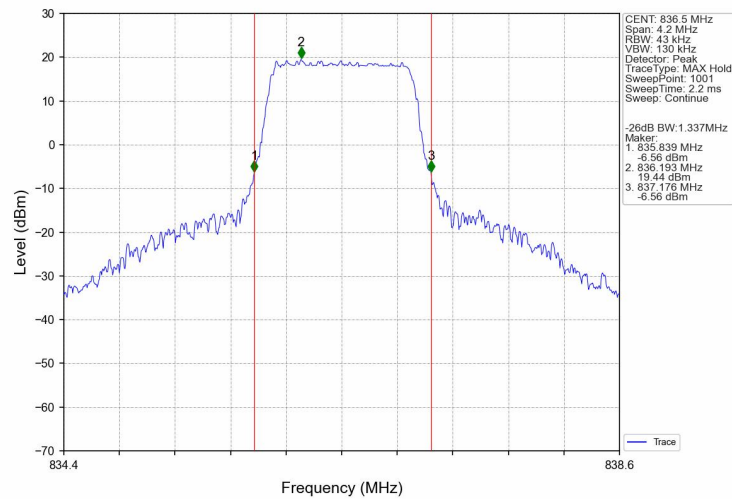


4.2.2 Band5_XDB

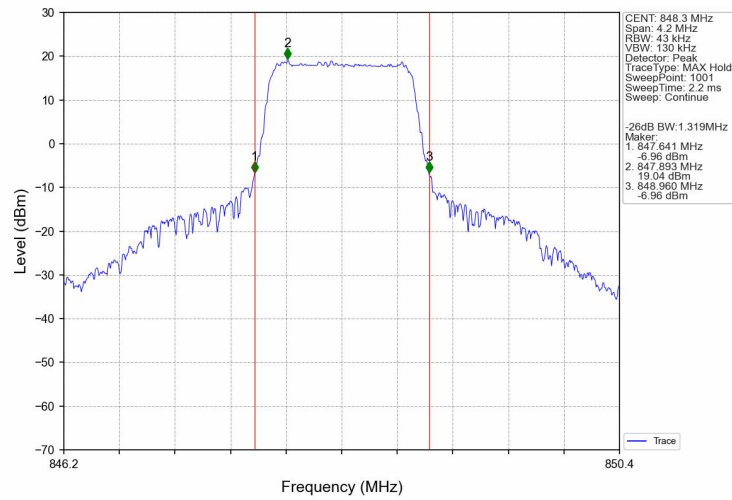
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



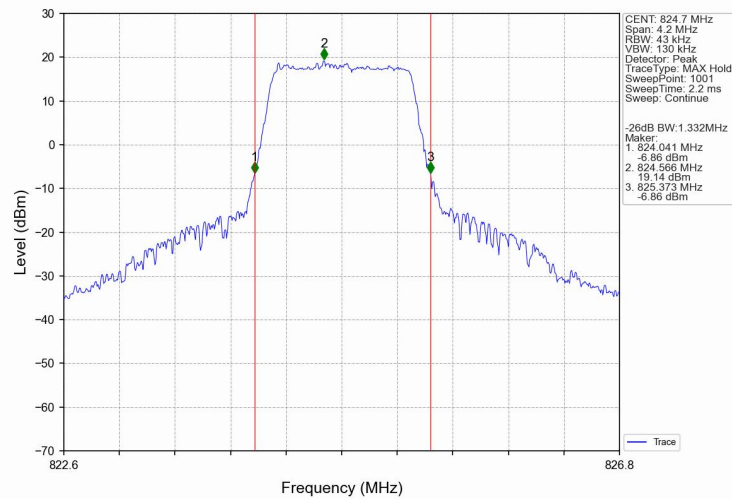
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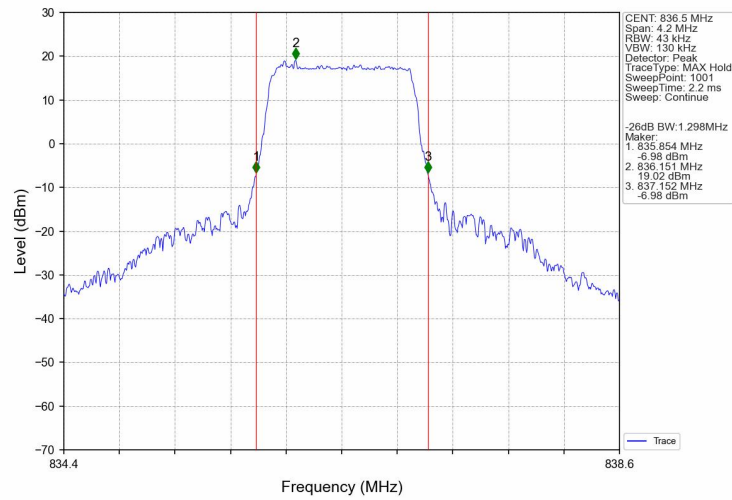
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



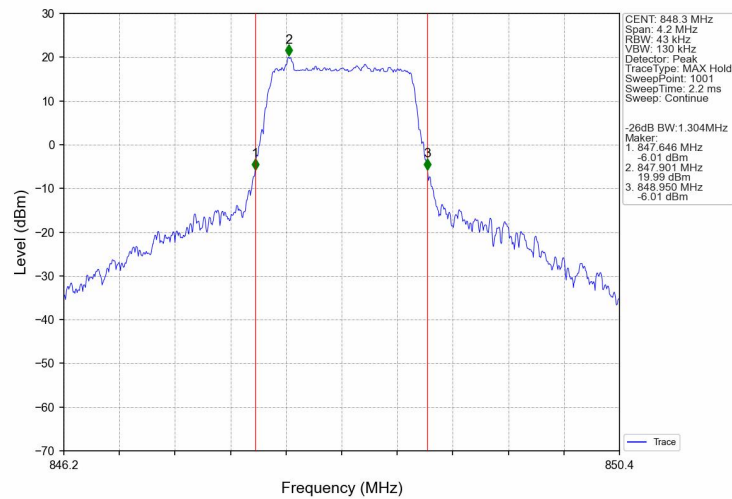
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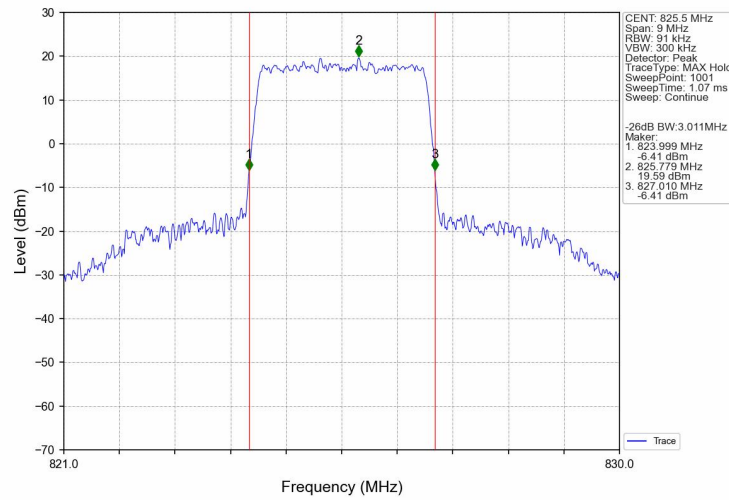
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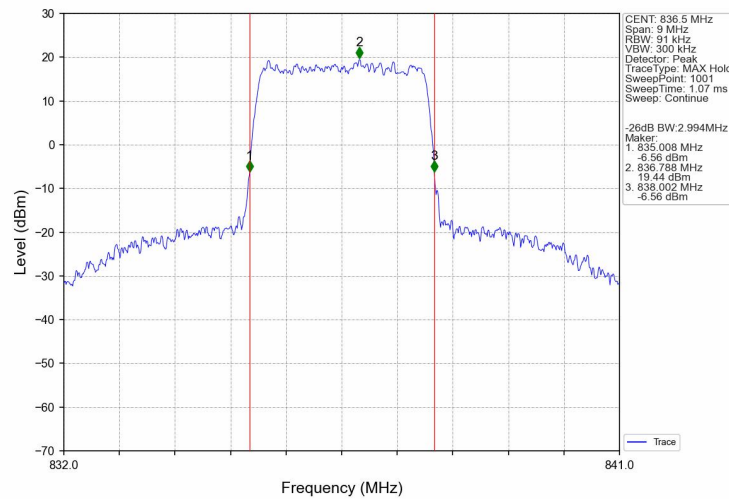
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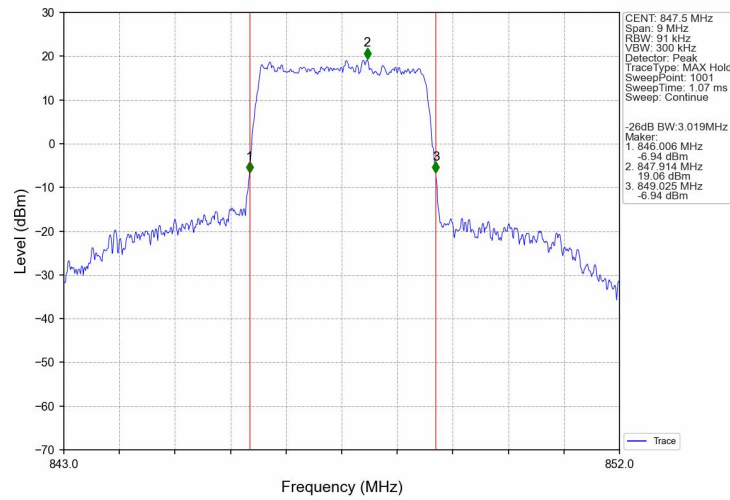
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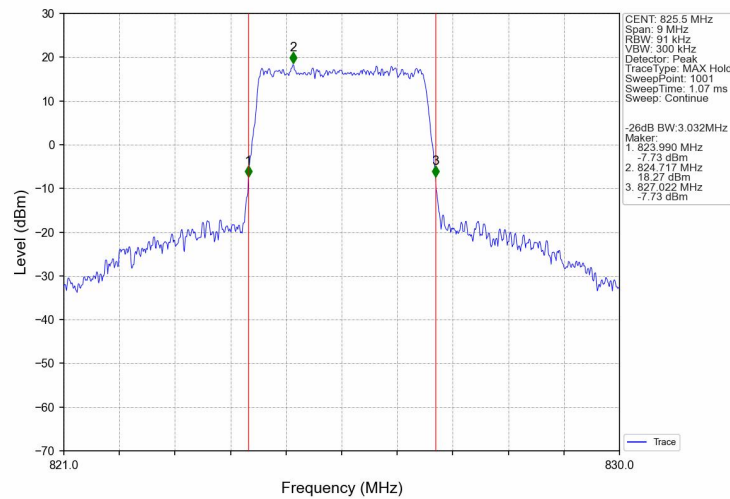
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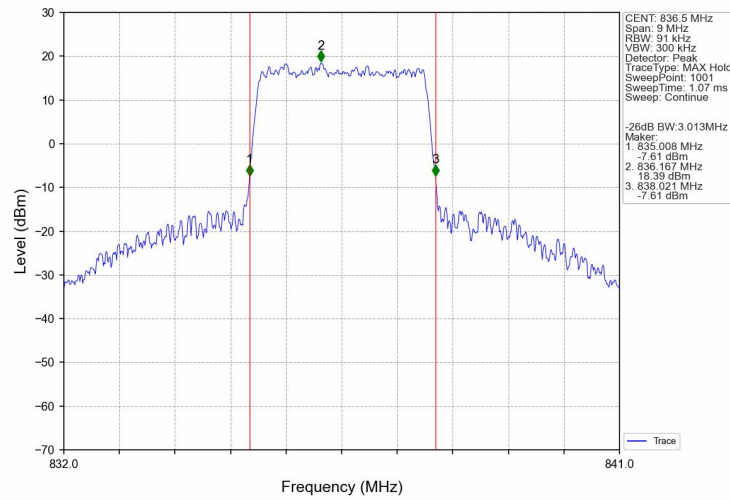
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



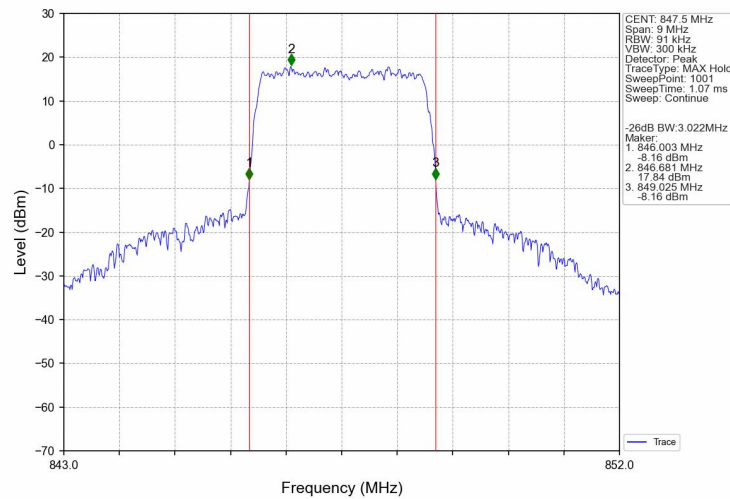
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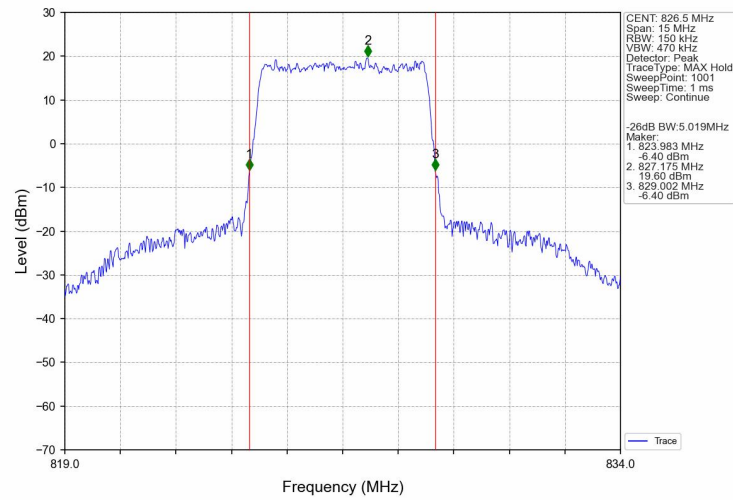
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



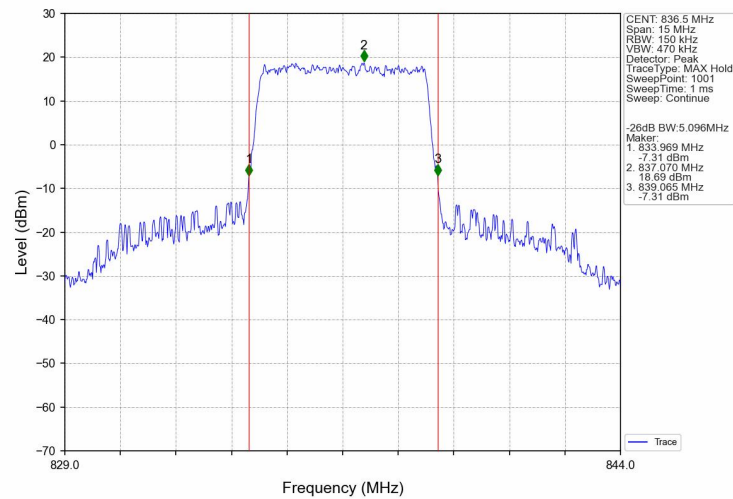
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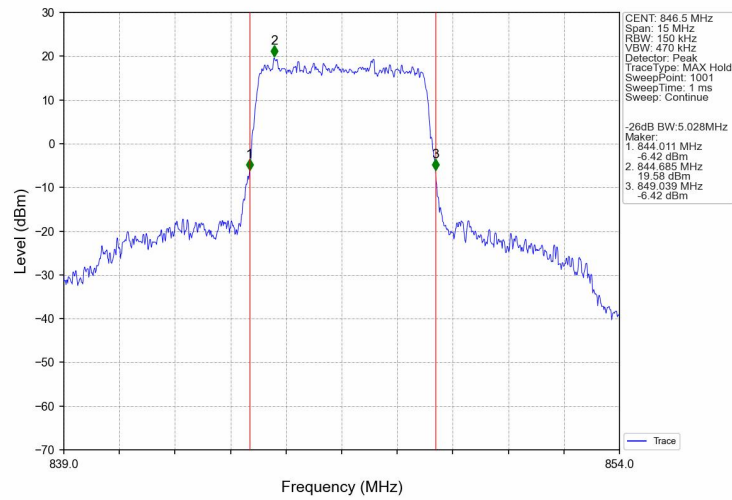
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



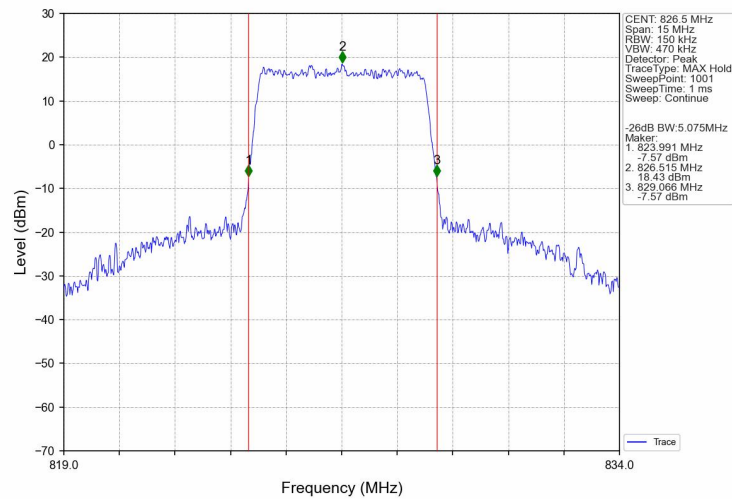
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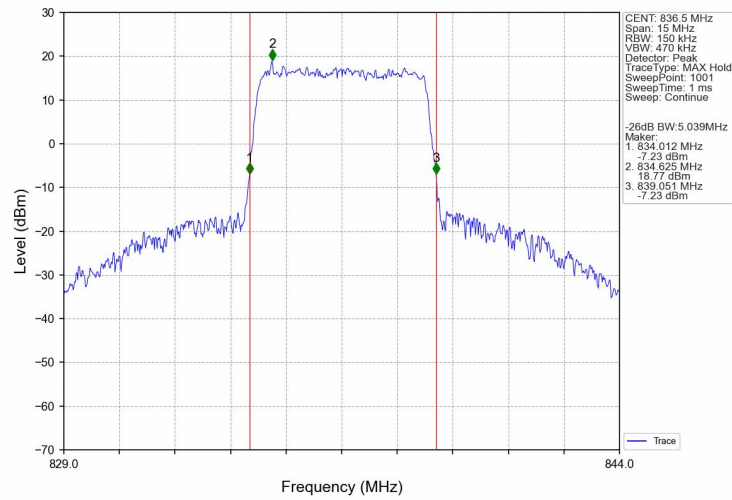
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



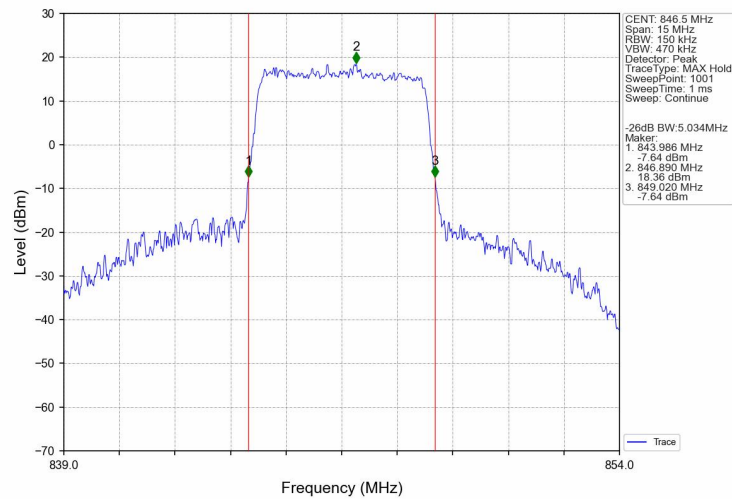
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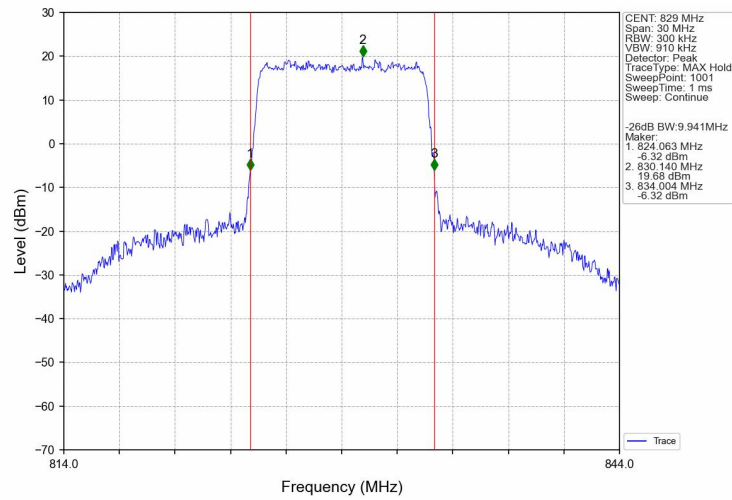
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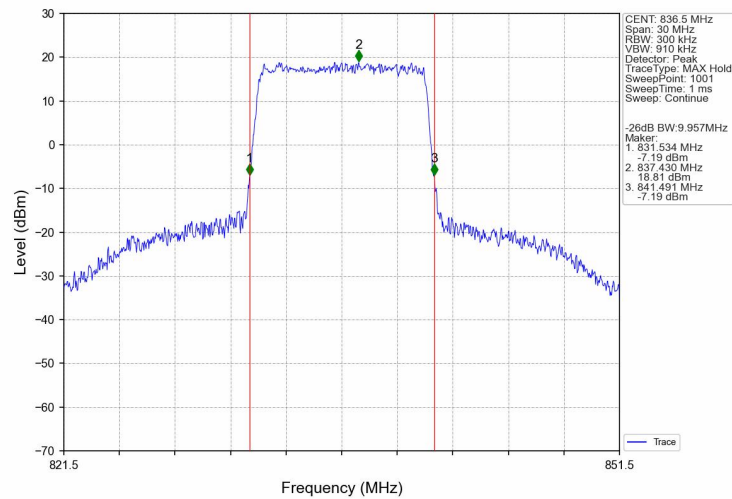
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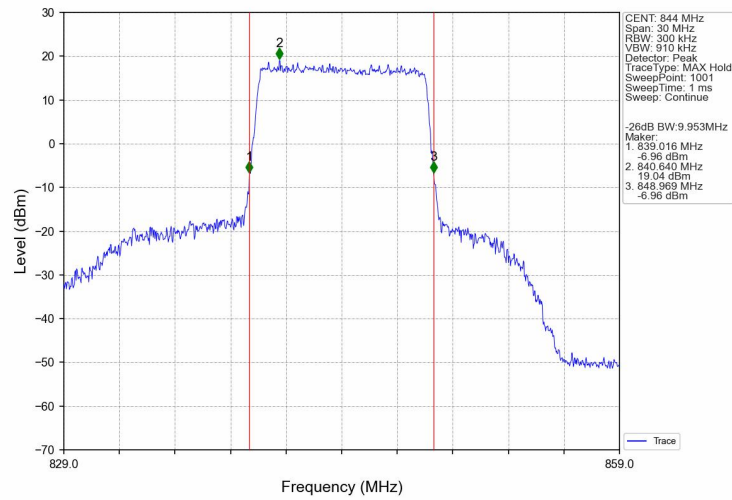
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



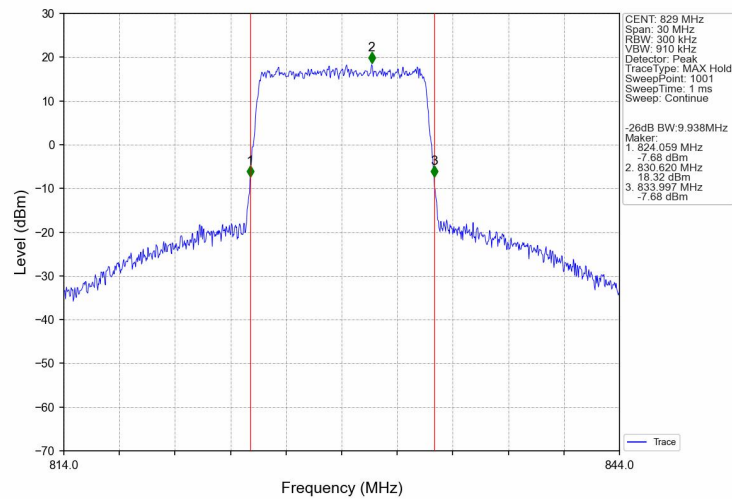
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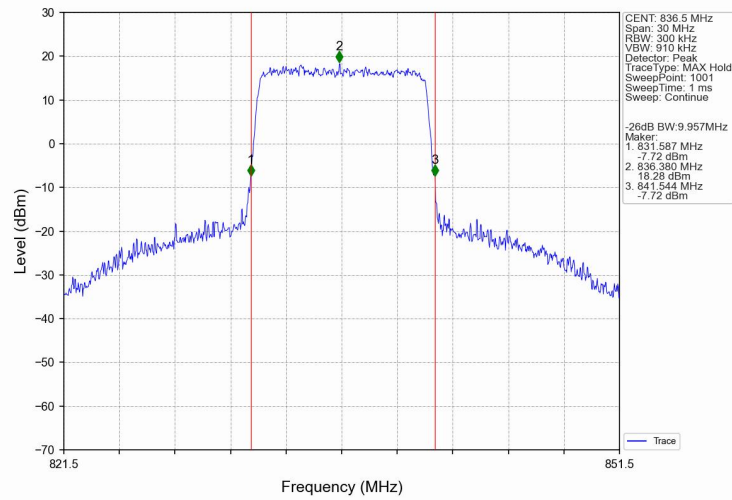
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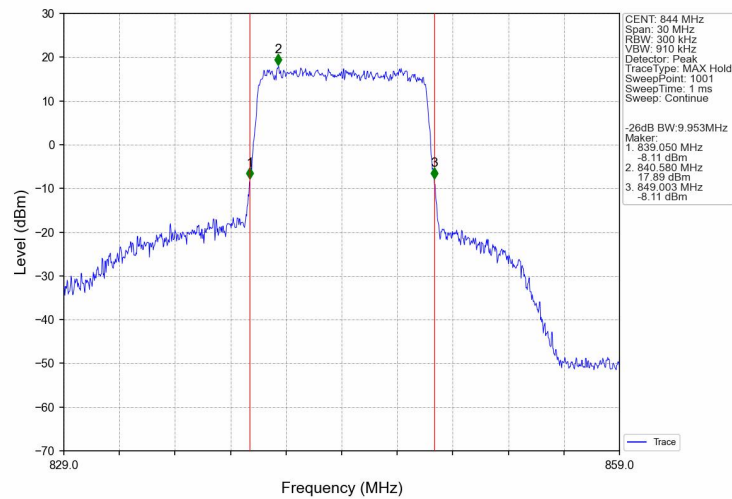
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B5_1.4MHz

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	4.89	<=13	Pass
	836.5	6	0	4.92	<=13	Pass
	848.3	6	0	4.96	<=13	Pass
16QAM	824.7	6	0	5.71	<=13	Pass
	836.5	6	0	5.71	<=13	Pass
	848.3	6	0	5.80	<=13	Pass

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.17	<=13	Pass
	836.5	15	0	5.13	<=13	Pass
	847.5	15	0	5.27	<=13	Pass
16QAM	825.5	15	0	5.95	<=13	Pass
	836.5	15	0	5.94	<=13	Pass
	847.5	15	0	6.04	<=13	Pass

5.1.3 B5_5MHz

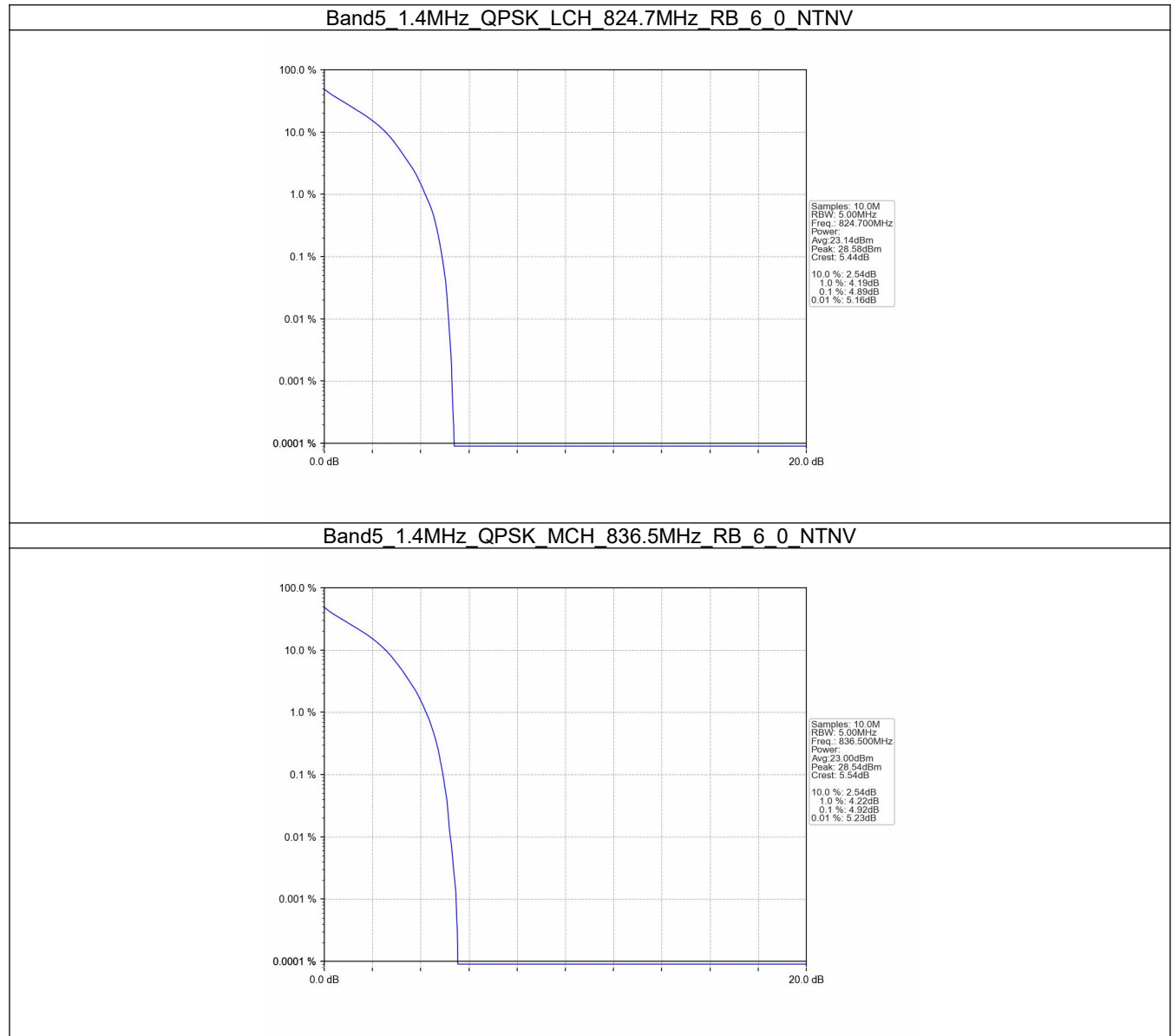
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.39	<=13	Pass
	836.5	25	0	5.36	<=13	Pass
	846.5	25	0	5.50	<=13	Pass
16QAM	826.5	25	0	6.07	<=13	Pass
	836.5	25	0	6.06	<=13	Pass
	846.5	25	0	6.12	<=13	Pass

5.1.4 B5_10MHz

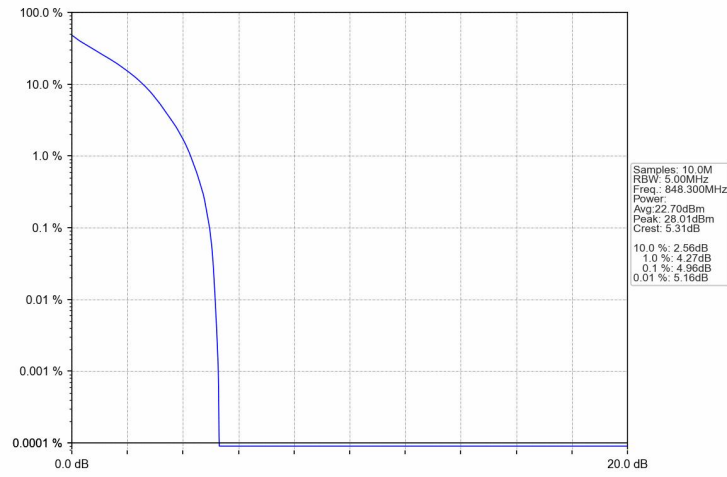
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.33	<=13	Pass
	836.5	50	0	5.34	<=13	Pass
	844	50	0	5.35	<=13	Pass
16QAM	829	50	0	6.12	<=13	Pass
	836.5	50	0	6.10	<=13	Pass
	844	50	0	6.11	<=13	Pass

5.2 Test Graph

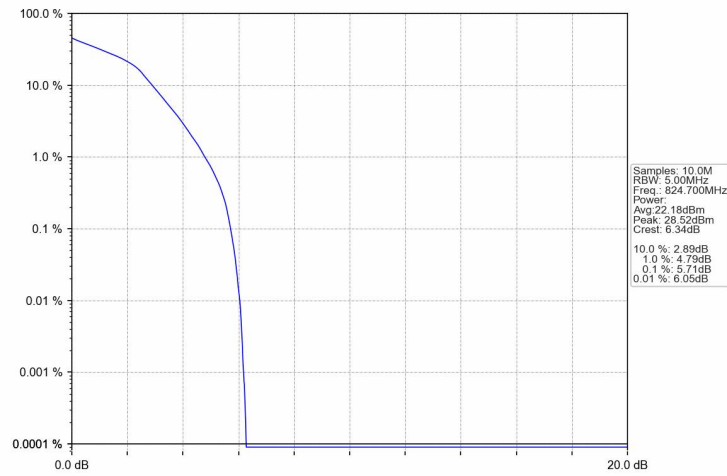
5.2.1 B5_1.4MHz



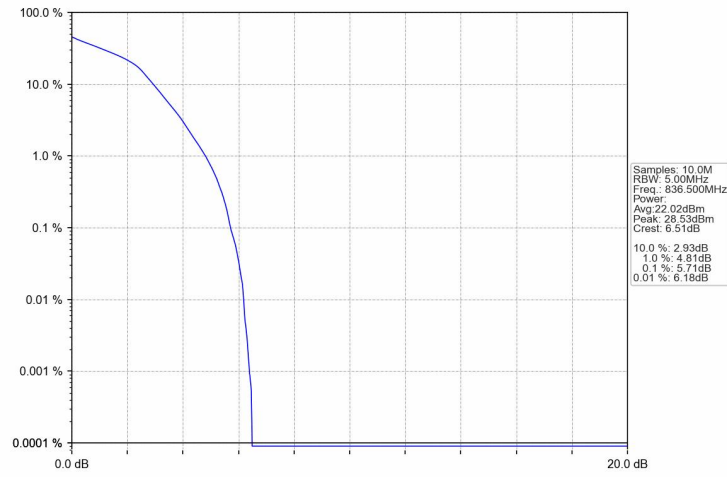
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



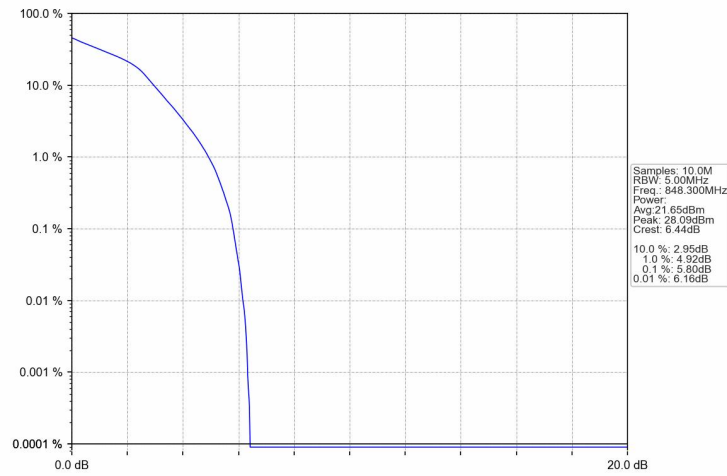
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

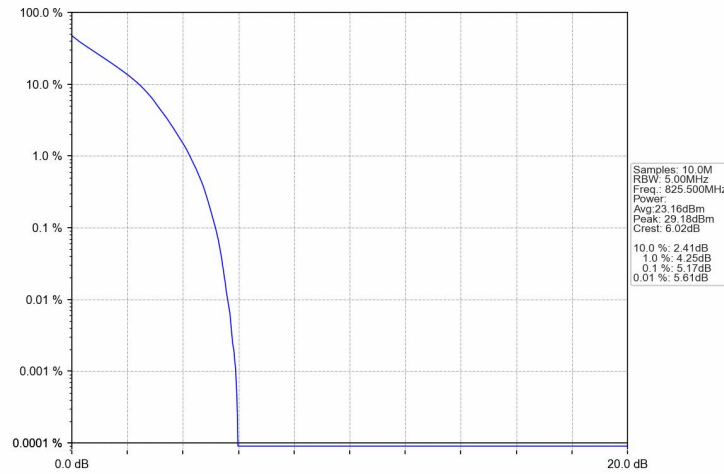


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

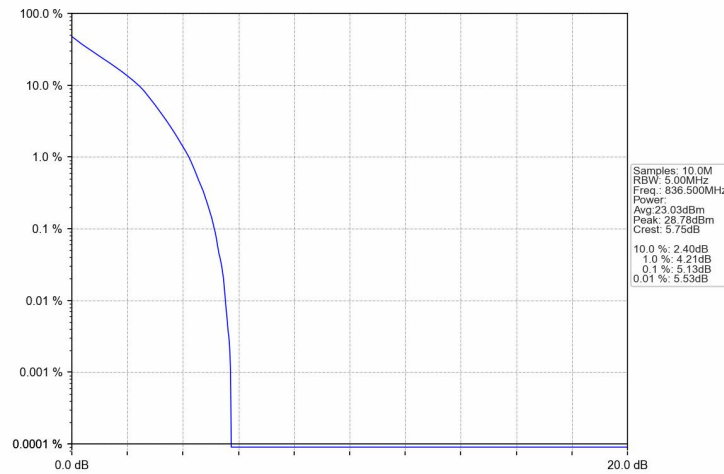


5.2.2 B5_3MHz

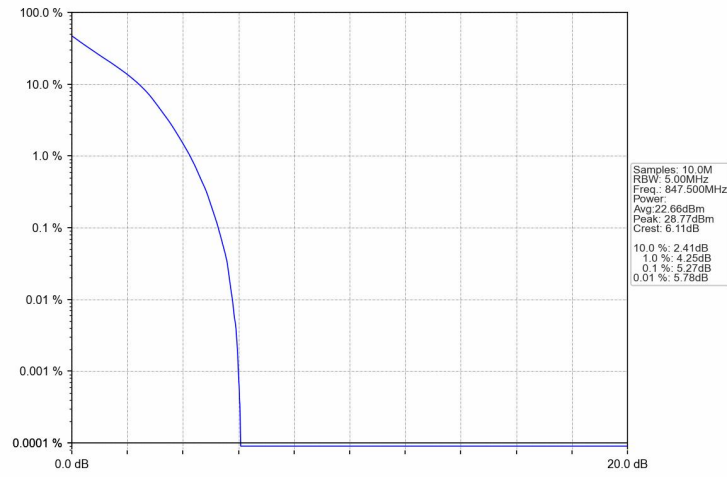
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



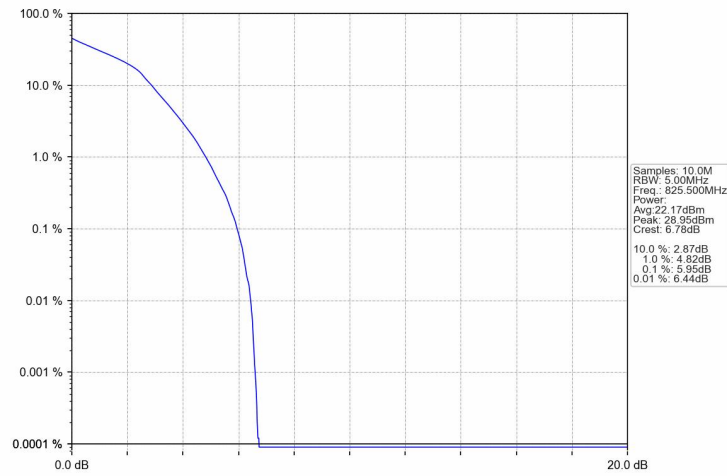
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



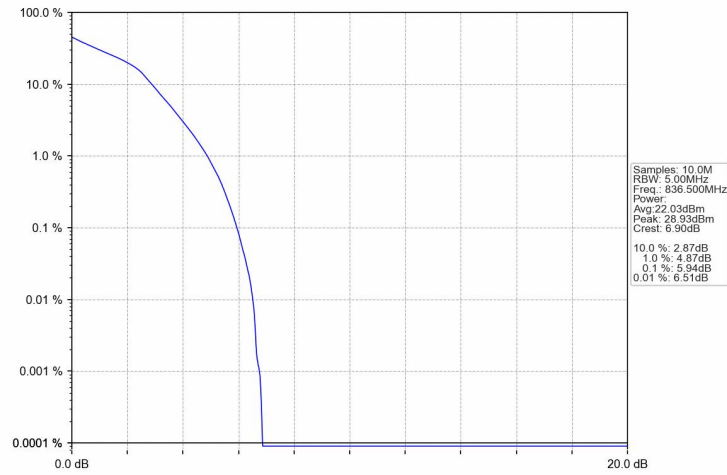
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

