

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	24.00	0.39	22.24	<=38.45	Pass
			2	23.98	0.39	22.22	<=38.45	Pass
			5	23.98	0.39	22.22	<=38.45	Pass
		3	0	24.07	0.39	22.31	<=38.45	Pass
			2	24.07	0.39	22.31	<=38.45	Pass
			3	24.06	0.39	22.30	<=38.45	Pass
		6	0	23.10	0.39	21.34	<=38.45	Pass
	836.5	1	0	24.08	0.39	22.32	<=38.45	Pass
			2	24.09	0.39	22.33	<=38.45	Pass
			5	24.08	0.39	22.32	<=38.45	Pass
		3	0	24.21	0.39	22.45	<=38.45	Pass
			2	24.19	0.39	22.43	<=38.45	Pass
			3	24.17	0.39	22.41	<=38.45	Pass
		6	0	23.20	0.39	21.44	<=38.45	Pass
	848.3	1	0	24.07	0.39	22.31	<=38.45	Pass
			2	24.07	0.39	22.31	<=38.45	Pass
			5	24.06	0.39	22.30	<=38.45	Pass
		3	0	24.09	0.39	22.33	<=38.45	Pass
			2	24.12	0.39	22.36	<=38.45	Pass
			3	24.12	0.39	22.36	<=38.45	Pass
		6	0	23.10	0.39	21.34	<=38.45	Pass
16QAM	824.7	1	0	23.26	0.39	21.50	<=38.45	Pass
			2	23.25	0.39	21.49	<=38.45	Pass
			5	23.23	0.39	21.47	<=38.45	Pass
		3	0	23.05	0.39	21.29	<=38.45	Pass
			2	23.06	0.39	21.30	<=38.45	Pass
			3	23.05	0.39	21.29	<=38.45	Pass
		6	0	22.12	0.39	20.36	<=38.45	Pass
	836.5	1	0	23.19	0.39	21.43	<=38.45	Pass
			2	23.16	0.39	21.40	<=38.45	Pass
			5	23.18	0.39	21.42	<=38.45	Pass
		3	0	23.34	0.39	21.58	<=38.45	Pass
			2	23.34	0.39	21.58	<=38.45	Pass
			3	23.35	0.39	21.59	<=38.45	Pass
		6	0	22.19	0.39	20.43	<=38.45	Pass
	848.3	1	0	23.09	0.39	21.33	<=38.45	Pass
			2	23.09	0.39	21.33	<=38.45	Pass
			5	23.16	0.39	21.40	<=38.45	Pass
		3	0	23.08	0.39	21.32	<=38.45	Pass
			2	23.09	0.39	21.33	<=38.45	Pass
			3	23.10	0.39	21.34	<=38.45	Pass
		6	0	21.99	0.39	20.23	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B5_3MHz_ERP

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	24.03	0.39	22.27	<=38.45	Pass
			7	24.02	0.39	22.26	<=38.45	Pass
			14	24.06	0.39	22.30	<=38.45	Pass
		8	0	23.05	0.39	21.29	<=38.45	Pass
			4	23.01	0.39	21.25	<=38.45	Pass
			7	23.05	0.39	21.29	<=38.45	Pass
		15	0	23.09	0.39	21.33	<=38.45	Pass
	836.5	1	0	24.14	0.39	22.38	<=38.45	Pass
			7	24.13	0.39	22.37	<=38.45	Pass
			14	24.08	0.39	22.32	<=38.45	Pass
		8	0	23.12	0.39	21.36	<=38.45	Pass
			4	23.16	0.39	21.40	<=38.45	Pass
			7	23.17	0.39	21.41	<=38.45	Pass
		15	0	23.17	0.39	21.41	<=38.45	Pass
	847.5	1	0	24.19	0.39	22.43	<=38.45	Pass
			7	24.10	0.39	22.34	<=38.45	Pass
			14	24.09	0.39	22.33	<=38.45	Pass
		8	0	23.06	0.39	21.30	<=38.45	Pass
			4	23.02	0.39	21.26	<=38.45	Pass
			7	23.02	0.39	21.26	<=38.45	Pass
		15	0	23.07	0.39	21.31	<=38.45	Pass
16QAM	825.5	1	0	23.14	0.39	21.38	<=38.45	Pass
			7	23.09	0.39	21.33	<=38.45	Pass
			14	23.17	0.39	21.41	<=38.45	Pass
		8	0	22.13	0.39	20.37	<=38.45	Pass
			4	22.09	0.39	20.33	<=38.45	Pass
			7	22.16	0.39	20.40	<=38.45	Pass
		15	0	22.12	0.39	20.36	<=38.45	Pass
	836.5	1	0	23.35	0.39	21.59	<=38.45	Pass
			7	23.38	0.39	21.62	<=38.45	Pass
			14	23.31	0.39	21.55	<=38.45	Pass
		8	0	22.11	0.39	20.35	<=38.45	Pass
			4	22.12	0.39	20.36	<=38.45	Pass
			7	22.15	0.39	20.39	<=38.45	Pass
		15	0	22.13	0.39	20.37	<=38.45	Pass
	847.5	1	0	23.72	0.39	21.96	<=38.45	Pass
			7	23.61	0.39	21.85	<=38.45	Pass
			14	23.55	0.39	21.79	<=38.45	Pass
		8	0	22.25	0.39	20.49	<=38.45	Pass
			4	22.23	0.39	20.47	<=38.45	Pass
			7	22.22	0.39	20.46	<=38.45	Pass
		15	0	22.17	0.39	20.41	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B5_5MHz_ERP

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	24.11	0.39	22.35	<=38.45	Pass
			13	24.10	0.39	22.34	<=38.45	Pass
			24	24.16	0.39	22.40	<=38.45	Pass
		12	0	23.06	0.39	21.30	<=38.45	Pass
			6	23.05	0.39	21.29	<=38.45	Pass
			13	23.00	0.39	21.24	<=38.45	Pass
		25	0	23.06	0.39	21.30	<=38.45	Pass
	836.5	1	0	24.11	0.39	22.35	<=38.45	Pass
			13	24.10	0.39	22.34	<=38.45	Pass
			24	24.13	0.39	22.37	<=38.45	Pass
		12	0	23.14	0.39	21.38	<=38.45	Pass
			6	23.13	0.39	21.37	<=38.45	Pass
			13	23.15	0.39	21.39	<=38.45	Pass
		25	0	23.16	0.39	21.40	<=38.45	Pass
	846.5	1	0	24.25	0.39	22.49	<=38.45	Pass
			13	24.16	0.39	22.40	<=38.45	Pass
			24	24.26	0.39	22.50	<=38.45	Pass
		12	0	23.16	0.39	21.40	<=38.45	Pass
			6	23.06	0.39	21.30	<=38.45	Pass
			13	23.05	0.39	21.29	<=38.45	Pass
		25	0	23.11	0.39	21.35	<=38.45	Pass
16QAM	826.5	1	0	23.17	0.39	21.41	<=38.45	Pass
			13	23.14	0.39	21.38	<=38.45	Pass
			24	23.22	0.39	21.46	<=38.45	Pass
		12	0	22.03	0.39	20.27	<=38.45	Pass
			6	22.04	0.39	20.28	<=38.45	Pass
			13	21.99	0.39	20.23	<=38.45	Pass
		25	0	22.09	0.39	20.33	<=38.45	Pass
	836.5	1	0	23.41	0.39	21.65	<=38.45	Pass
			13	23.40	0.39	21.64	<=38.45	Pass
			24	23.41	0.39	21.65	<=38.45	Pass
		12	0	22.20	0.39	20.44	<=38.45	Pass
			6	22.19	0.39	20.43	<=38.45	Pass
			13	22.15	0.39	20.39	<=38.45	Pass
		25	0	22.19	0.39	20.43	<=38.45	Pass
	846.5	1	0	22.98	0.39	21.22	<=38.45	Pass
			13	22.90	0.39	21.14	<=38.45	Pass
			24	22.97	0.39	21.21	<=38.45	Pass
		12	0	22.15	0.39	20.39	<=38.45	Pass
			6	22.07	0.39	20.31	<=38.45	Pass
			13	22.05	0.39	20.29	<=38.45	Pass
		25	0	22.15	0.39	20.39	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B5_10MHz_ERP

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	24.03	0.39	22.27	<=38.45	Pass
			25	24.13	0.39	22.37	<=38.45	Pass
			49	24.18	0.39	22.42	<=38.45	Pass
		25	0	23.11	0.39	21.35	<=38.45	Pass
			13	23.14	0.39	21.38	<=38.45	Pass
			25	23.07	0.39	21.31	<=38.45	Pass
		50	0	23.14	0.39	21.38	<=38.45	Pass
	836.5	1	0	24.11	0.39	22.35	<=38.45	Pass
			25	24.14	0.39	22.38	<=38.45	Pass
			49	24.09	0.39	22.33	<=38.45	Pass
		25	0	23.19	0.39	21.43	<=38.45	Pass
			13	23.14	0.39	21.38	<=38.45	Pass
			25	23.17	0.39	21.41	<=38.45	Pass
		50	0	23.23	0.39	21.47	<=38.45	Pass
	844	1	0	24.18	0.39	22.42	<=38.45	Pass
			25	24.13	0.39	22.37	<=38.45	Pass
			49	24.06	0.39	22.30	<=38.45	Pass
		25	0	23.21	0.39	21.45	<=38.45	Pass
			13	23.11	0.39	21.35	<=38.45	Pass
			25	23.03	0.39	21.27	<=38.45	Pass
		50	0	23.18	0.39	21.42	<=38.45	Pass
16QAM	829	1	0	23.08	0.39	21.32	<=38.45	Pass
			25	23.14	0.39	21.38	<=38.45	Pass
			49	23.19	0.39	21.43	<=38.45	Pass
		12	0	23.12	0.39	21.36	<=38.45	Pass
			19	23.18	0.39	21.42	<=38.45	Pass
			38	23.17	0.39	21.41	<=38.45	Pass
		27	0	22.11	0.39	20.35	<=38.45	Pass
	836.5	1	0	23.33	0.39	21.57	<=38.45	Pass
			25	23.35	0.39	21.59	<=38.45	Pass
			49	23.27	0.39	21.51	<=38.45	Pass
		12	0	23.20	0.39	21.44	<=38.45	Pass
			19	23.16	0.39	21.40	<=38.45	Pass
			38	23.17	0.39	21.41	<=38.45	Pass
		27	0	22.24	0.39	20.48	<=38.45	Pass
	844	1	0	23.66	0.39	21.90	<=38.45	Pass
			25	23.59	0.39	21.83	<=38.45	Pass
			49	23.54	0.39	21.78	<=38.45	Pass
		12	0	23.18	0.39	21.42	<=38.45	Pass
			19	23.17	0.39	21.41	<=38.45	Pass
			38	23.15	0.39	21.39	<=38.45	Pass
		27	23	21.93	0.39	20.17	<=38.45	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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	824.7	6	0	20	102	0.672	0.0008	-2.5 to 2.5	Pass
					120	4.678	0.0057	-2.5 to 2.5	Pass
					138	-2.503	-0.0030	-2.5 to 2.5	Pass
				-30	120	2.146	0.0026	-2.5 to 2.5	Pass
				-20	120	2.704	0.0033	-2.5 to 2.5	Pass
				-10	120	-0.830	-0.0010	-2.5 to 2.5	Pass
				0	120	3.276	0.0040	-2.5 to 2.5	Pass
				10	120	-0.286	-0.0003	-2.5 to 2.5	Pass
				30	120	2.446	0.0030	-2.5 to 2.5	Pass
				40	120	5.693	0.0069	-2.5 to 2.5	Pass
				50	120	4.063	0.0049	-2.5 to 2.5	Pass
	836.5	6	0	20	102	-1.488	-0.0018	-2.5 to 2.5	Pass
					120	-3.805	-0.0045	-2.5 to 2.5	Pass
					138	-0.730	-0.0009	-2.5 to 2.5	Pass
				-30	120	-2.017	-0.0024	-2.5 to 2.5	Pass
				-20	120	-0.329	-0.0004	-2.5 to 2.5	Pass
				-10	120	-0.615	-0.0007	-2.5 to 2.5	Pass
				0	120	1.159	0.0014	-2.5 to 2.5	Pass
				10	120	-1.845	-0.0022	-2.5 to 2.5	Pass
				30	120	-2.904	-0.0035	-2.5 to 2.5	Pass
				40	120	-4.978	-0.0060	-2.5 to 2.5	Pass
				50	120	0.715	0.0009	-2.5 to 2.5	Pass
	848.3	6	0	20	102	0.229	0.0003	-2.5 to 2.5	Pass
					120	-0.587	-0.0007	-2.5 to 2.5	Pass
					138	2.618	0.0031	-2.5 to 2.5	Pass
				-30	120	-1.645	-0.0019	-2.5 to 2.5	Pass
				-20	120	0.401	0.0005	-2.5 to 2.5	Pass
				-10	120	-0.658	-0.0008	-2.5 to 2.5	Pass
				0	120	2.117	0.0025	-2.5 to 2.5	Pass
				10	120	3.376	0.0040	-2.5 to 2.5	Pass
				30	120	0.958	0.0011	-2.5 to 2.5	Pass
				40	120	-0.544	-0.0006	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	102	0.229	0.0003	-2.5 to 2.5	Pass
					120	-2.589	-0.0031	-2.5 to 2.5	Pass
					138	-0.458	-0.0006	-2.5 to 2.5	Pass
				-30	120	4.320	0.0052	-2.5 to 2.5	Pass
				-20	120	-0.715	-0.0009	-2.5 to 2.5	Pass
				-10	120	3.419	0.0041	-2.5 to 2.5	Pass
				0	120	2.446	0.0030	-2.5 to 2.5	Pass
				10	120	1.574	0.0019	-2.5 to 2.5	Pass
				30	120	1.616	0.0020	-2.5 to 2.5	Pass
				40	120	5.136	0.0062	-2.5 to 2.5	Pass
	836.5	6	0	20	102	1.645	0.0020	-2.5 to 2.5	Pass
					120	-4.635	-0.0056	-2.5 to 2.5	Pass
					138	-0.858	-0.0010	-2.5 to 2.5	Pass
				-30	120	-1.259	-0.0015	-2.5 to 2.5	Pass
				-20	120	4.492	0.0054	-2.5 to 2.5	Pass
				-10	120	3.161	0.0038	-2.5 to 2.5	Pass
	848.3	6	0	20	102	4.735	0.0057	-2.5 to 2.5	Pass
					138	-3.605	-0.0043	-2.5 to 2.5	Pass

				0	120	-1.216	-0.0015	-2.5 to 2.5	Pass
				10	120	1.774	0.0021	-2.5 to 2.5	Pass
				30	120	-3.819	-0.0046	-2.5 to 2.5	Pass
				40	120	3.834	0.0046	-2.5 to 2.5	Pass
				50	120	-0.701	-0.0008	-2.5 to 2.5	Pass
	848.3	6	0	20	102	0.873	0.0010	-2.5 to 2.5	Pass
					120	0.830	0.0010	-2.5 to 2.5	Pass
					138	-0.286	-0.0003	-2.5 to 2.5	Pass
				-30	120	2.289	0.0027	-2.5 to 2.5	Pass
				-20	120	-1.974	-0.0023	-2.5 to 2.5	Pass
				-10	120	2.704	0.0032	-2.5 to 2.5	Pass
				0	120	-5.665	-0.0067	-2.5 to 2.5	Pass
				10	120	0.443	0.0005	-2.5 to 2.5	Pass
				30	120	-4.606	-0.0054	-2.5 to 2.5	Pass
				40	120	-5.636	-0.0066	-2.5 to 2.5	Pass
				50	120	-0.658	-0.0008	-2.5 to 2.5	Pass

2.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	825.5	15	0	20	102	-4.263	-0.0052	-2.5 to 2.5	Pass
					120	-3.304	-0.0040	-2.5 to 2.5	Pass
					138	-2.460	-0.0030	-2.5 to 2.5	Pass
				-30	120	-0.887	-0.0011	-2.5 to 2.5	Pass
				-20	120	1.001	0.0012	-2.5 to 2.5	Pass
				-10	120	-2.818	-0.0034	-2.5 to 2.5	Pass
				0	120	-1.144	-0.0014	-2.5 to 2.5	Pass
				10	120	-3.891	-0.0047	-2.5 to 2.5	Pass
				30	120	1.774	0.0021	-2.5 to 2.5	Pass
				40	120	-5.307	-0.0064	-2.5 to 2.5	Pass
				50	120	2.303	0.0028	-2.5 to 2.5	Pass
	836.5	15	0	20	102	2.403	0.0029	-2.5 to 2.5	Pass
					120	4.148	0.0050	-2.5 to 2.5	Pass
					138	2.832	0.0034	-2.5 to 2.5	Pass
				-30	120	2.904	0.0035	-2.5 to 2.5	Pass
				-20	120	3.705	0.0044	-2.5 to 2.5	Pass
				-10	120	0.572	0.0007	-2.5 to 2.5	Pass
				0	120	-1.287	-0.0015	-2.5 to 2.5	Pass
				10	120	2.003	0.0024	-2.5 to 2.5	Pass
				30	120	4.077	0.0049	-2.5 to 2.5	Pass
				40	120	1.459	0.0017	-2.5 to 2.5	Pass
				50	120	-0.973	-0.0012	-2.5 to 2.5	Pass
	847.5	15	0	20	102	-3.076	-0.0036	-2.5 to 2.5	Pass
					120	-1.416	-0.0017	-2.5 to 2.5	Pass
					138	1.502	0.0018	-2.5 to 2.5	Pass
				-30	120	-1.330	-0.0016	-2.5 to 2.5	Pass
				-20	120	2.747	0.0032	-2.5 to 2.5	Pass
				-10	120	0.272	0.0003	-2.5 to 2.5	Pass
				0	120	4.592	0.0054	-2.5 to 2.5	Pass
				10	120	2.189	0.0026	-2.5 to 2.5	Pass
				30	120	-1.659	-0.0020	-2.5 to 2.5	Pass
				40	120	-0.429	-0.0005	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	102	-1.345	-0.0016	-2.5 to 2.5	Pass
					120	2.046	0.0025	-2.5 to 2.5	Pass
					138	-2.618	-0.0032	-2.5 to 2.5	Pass
				-30	120	-1.273	-0.0015	-2.5 to 2.5	Pass
				-20	120	-3.247	-0.0039	-2.5 to 2.5	Pass
				-10	120	-2.375	-0.0029	-2.5 to 2.5	Pass
				0	120	-1.087	-0.0013	-2.5 to 2.5	Pass
				10	120	-2.232	-0.0027	-2.5 to 2.5	Pass
				30	120	-3.920	-0.0047	-2.5 to 2.5	Pass
				40	120	-1.445	-0.0018	-2.5 to 2.5	Pass
				50	120	-1.616	-0.0020	-2.5 to 2.5	Pass
	836.5	15	0	20	102	1.817	0.0022	-2.5 to 2.5	Pass
					120	3.276	0.0039	-2.5 to 2.5	Pass
					138	1.731	0.0021	-2.5 to 2.5	Pass
				-30	120	3.476	0.0042	-2.5 to 2.5	Pass
				-20	120	-1.931	-0.0023	-2.5 to 2.5	Pass
				-10	120	0.186	0.0002	-2.5 to 2.5	Pass
				0	120	0.758	0.0009	-2.5 to 2.5	Pass
				10	120	3.362	0.0040	-2.5 to 2.5	Pass
				30	120	1.402	0.0017	-2.5 to 2.5	Pass
				40	120	0.257	0.0003	-2.5 to 2.5	Pass
				50	120	-1.874	-0.0022	-2.5 to 2.5	Pass

	847.5	15	0	20	102	1.087	0.0013	-2.5 to 2.5	Pass
					120	2.317	0.0027	-2.5 to 2.5	Pass
					138	0.401	0.0005	-2.5 to 2.5	Pass
				-30	120	-1.903	-0.0022	-2.5 to 2.5	Pass
				-20	120	2.131	0.0025	-2.5 to 2.5	Pass
				-10	120	-7.367	-0.0087	-2.5 to 2.5	Pass
				0	120	-3.719	-0.0044	-2.5 to 2.5	Pass
				10	120	0.529	0.0006	-2.5 to 2.5	Pass
				30	120	0.787	0.0009	-2.5 to 2.5	Pass
				40	120	0.186	0.0002	-2.5 to 2.5	Pass
				50	120	-3.018	-0.0036	-2.5 to 2.5	Pass

2.1.3 B5_5MHz

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	102	-4.792	-0.0058	-2.5 to 2.5	Pass
					120	-0.701	-0.0008	-2.5 to 2.5	Pass
					138	0.815	0.0010	-2.5 to 2.5	Pass
				-30	120	2.403	0.0029	-2.5 to 2.5	Pass
				-20	120	-1.187	-0.0014	-2.5 to 2.5	Pass
				-10	120	-2.317	-0.0028	-2.5 to 2.5	Pass
				0	120	-1.602	-0.0019	-2.5 to 2.5	Pass
				10	120	0.973	0.0012	-2.5 to 2.5	Pass
				30	120	-0.987	-0.0012	-2.5 to 2.5	Pass
				40	120	-1.559	-0.0019	-2.5 to 2.5	Pass
				50	120	-0.458	-0.0006	-2.5 to 2.5	Pass
	836.5	25	0	20	102	-3.405	-0.0041	-2.5 to 2.5	Pass
					120	3.047	0.0036	-2.5 to 2.5	Pass
					138	-0.472	-0.0006	-2.5 to 2.5	Pass
				-30	120	-0.086	-0.0001	-2.5 to 2.5	Pass
				-20	120	-1.016	-0.0012	-2.5 to 2.5	Pass
				-10	120	0.629	0.0008	-2.5 to 2.5	Pass
				0	120	0.358	0.0004	-2.5 to 2.5	Pass
				10	120	-3.591	-0.0043	-2.5 to 2.5	Pass
				30	120	-2.775	-0.0033	-2.5 to 2.5	Pass
				40	120	-2.317	-0.0028	-2.5 to 2.5	Pass
				50	120	2.804	0.0034	-2.5 to 2.5	Pass
	846.5	25	0	20	102	2.632	0.0031	-2.5 to 2.5	Pass
					120	-1.845	-0.0022	-2.5 to 2.5	Pass
					138	0.300	0.0004	-2.5 to 2.5	Pass
				-30	120	-0.072	-0.0001	-2.5 to 2.5	Pass
				-20	120	-1.273	-0.0015	-2.5 to 2.5	Pass
				-10	120	1.445	0.0017	-2.5 to 2.5	Pass
				0	120	-0.844	-0.0010	-2.5 to 2.5	Pass
				10	120	2.933	0.0035	-2.5 to 2.5	Pass
				30	120	0.701	0.0008	-2.5 to 2.5	Pass
				40	120	-0.658	-0.0008	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	102	-2.017	-0.0024	-2.5 to 2.5	Pass
					120	-3.862	-0.0047	-2.5 to 2.5	Pass
					138	-0.200	-0.0002	-2.5 to 2.5	Pass
				-30	120	-1.588	-0.0019	-2.5 to 2.5	Pass
				-20	120	-3.004	-0.0036	-2.5 to 2.5	Pass
				-10	120	2.832	0.0034	-2.5 to 2.5	Pass
				0	120	2.532	0.0031	-2.5 to 2.5	Pass
				10	120	5.035	0.0061	-2.5 to 2.5	Pass
				30	120	-2.890	-0.0035	-2.5 to 2.5	Pass
				40	120	-2.546	-0.0031	-2.5 to 2.5	Pass
				50	120	-1.802	-0.0022	-2.5 to 2.5	Pass
	836.5	25	0	20	102	2.074	0.0025	-2.5 to 2.5	Pass
					120	-0.858	-0.0010	-2.5 to 2.5	Pass
					138	3.519	0.0042	-2.5 to 2.5	Pass
				-30	120	0.343	0.0004	-2.5 to 2.5	Pass
				-20	120	-2.933	-0.0035	-2.5 to 2.5	Pass
				-10	120	1.531	0.0018	-2.5 to 2.5	Pass
				0	120	0.000	0.0000	-2.5 to 2.5	Pass
				10	120	-0.415	-0.0005	-2.5 to 2.5	Pass
				30	120	-1.230	-0.0015	-2.5 to 2.5	Pass
				40	120	1.144	0.0014	-2.5 to 2.5	Pass
				50	120	-1.917	-0.0023	-2.5 to 2.5	Pass

	846.5	25	0	20	102	-1.445	-0.0017	-2.5 to 2.5	Pass
					120	1.416	0.0017	-2.5 to 2.5	Pass
					138	0.944	0.0011	-2.5 to 2.5	Pass
				-30	120	-0.615	-0.0007	-2.5 to 2.5	Pass
				-20	120	-2.475	-0.0029	-2.5 to 2.5	Pass
				-10	120	-3.991	-0.0047	-2.5 to 2.5	Pass
				0	120	-4.392	-0.0052	-2.5 to 2.5	Pass
				10	120	-1.960	-0.0023	-2.5 to 2.5	Pass
				30	120	-0.830	-0.0010	-2.5 to 2.5	Pass
				40	120	-0.300	-0.0004	-2.5 to 2.5	Pass
				50	120	3.018	0.0036	-2.5 to 2.5	Pass

2.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	102	-2.089	-0.0025	-2.5 to 2.5	Pass
					120	-1.273	-0.0015	-2.5 to 2.5	Pass
					138	-2.003	-0.0024	-2.5 to 2.5	Pass
				-30	120	-1.574	-0.0019	-2.5 to 2.5	Pass
				-20	120	-1.159	-0.0014	-2.5 to 2.5	Pass
				-10	120	-1.459	-0.0018	-2.5 to 2.5	Pass
				0	120	-0.987	-0.0012	-2.5 to 2.5	Pass
				10	120	-0.601	-0.0007	-2.5 to 2.5	Pass
				30	120	1.616	0.0019	-2.5 to 2.5	Pass
				40	120	-1.588	-0.0019	-2.5 to 2.5	Pass
				50	120	-0.801	-0.0010	-2.5 to 2.5	Pass
	836.5	50	0	20	102	-4.320	-0.0052	-2.5 to 2.5	Pass
					120	-4.478	-0.0054	-2.5 to 2.5	Pass
					138	-3.362	-0.0040	-2.5 to 2.5	Pass
				-30	120	-1.616	-0.0019	-2.5 to 2.5	Pass
				-20	120	-3.777	-0.0045	-2.5 to 2.5	Pass
				-10	120	-1.416	-0.0017	-2.5 to 2.5	Pass
				0	120	-0.615	-0.0007	-2.5 to 2.5	Pass
				10	120	-4.034	-0.0048	-2.5 to 2.5	Pass
				30	120	-2.704	-0.0032	-2.5 to 2.5	Pass
				40	120	-2.818	-0.0034	-2.5 to 2.5	Pass
				50	120	-3.104	-0.0037	-2.5 to 2.5	Pass
	844	50	0	20	102	-0.215	-0.0003	-2.5 to 2.5	Pass
					120	0.501	0.0006	-2.5 to 2.5	Pass
					138	-1.988	-0.0024	-2.5 to 2.5	Pass
				-30	120	-1.645	-0.0019	-2.5 to 2.5	Pass
				-20	120	0.243	0.0003	-2.5 to 2.5	Pass
				-10	120	-0.987	-0.0012	-2.5 to 2.5	Pass
				0	120	0.343	0.0004	-2.5 to 2.5	Pass
				10	120	-0.544	-0.0006	-2.5 to 2.5	Pass
				30	120	-2.503	-0.0030	-2.5 to 2.5	Pass
				40	120	-1.559	-0.0018	-2.5 to 2.5	Pass
16QAM	829	27	0	20	102	2.704	0.0033	-2.5 to 2.5	Pass
					120	-2.375	-0.0029	-2.5 to 2.5	Pass
					138	-1.888	-0.0023	-2.5 to 2.5	Pass
				-30	120	0.415	0.0005	-2.5 to 2.5	Pass
				-20	120	1.960	0.0024	-2.5 to 2.5	Pass
				-10	120	0.000	0.0000	-2.5 to 2.5	Pass
				0	120	-0.458	-0.0006	-2.5 to 2.5	Pass
				10	120	-2.303	-0.0028	-2.5 to 2.5	Pass
				30	120	0.544	0.0007	-2.5 to 2.5	Pass
				40	120	-2.604	-0.0031	-2.5 to 2.5	Pass
				50	120	0.744	0.0009	-2.5 to 2.5	Pass
	836.5	27	0	20	102	0.515	0.0006	-2.5 to 2.5	Pass
					120	-1.059	-0.0013	-2.5 to 2.5	Pass
					138	-4.091	-0.0049	-2.5 to 2.5	Pass
				-30	120	-1.645	-0.0020	-2.5 to 2.5	Pass
				-20	120	-0.772	-0.0009	-2.5 to 2.5	Pass
				-10	120	-3.891	-0.0047	-2.5 to 2.5	Pass
				0	120	-3.891	-0.0047	-2.5 to 2.5	Pass
				10	120	-0.715	-0.0009	-2.5 to 2.5	Pass
				30	120	2.046	0.0024	-2.5 to 2.5	Pass
				40	120	-1.101	-0.0013	-2.5 to 2.5	Pass
				50	120	0.973	0.0012	-2.5 to 2.5	Pass

	844	27	23	20	102	-3.691	-0.0044	-2.5 to 2.5	Pass
					120	-1.860	-0.0022	-2.5 to 2.5	Pass
					138	0.329	0.0004	-2.5 to 2.5	Pass
				-30	120	-1.945	-0.0023	-2.5 to 2.5	Pass
				-20	120	2.446	0.0029	-2.5 to 2.5	Pass
				-10	120	2.332	0.0028	-2.5 to 2.5	Pass
				0	120	-1.059	-0.0013	-2.5 to 2.5	Pass
				10	120	-1.588	-0.0019	-2.5 to 2.5	Pass
				30	120	-0.887	-0.0011	-2.5 to 2.5	Pass
				40	120	-2.575	-0.0031	-2.5 to 2.5	Pass
				50	120	2.575	0.0031	-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

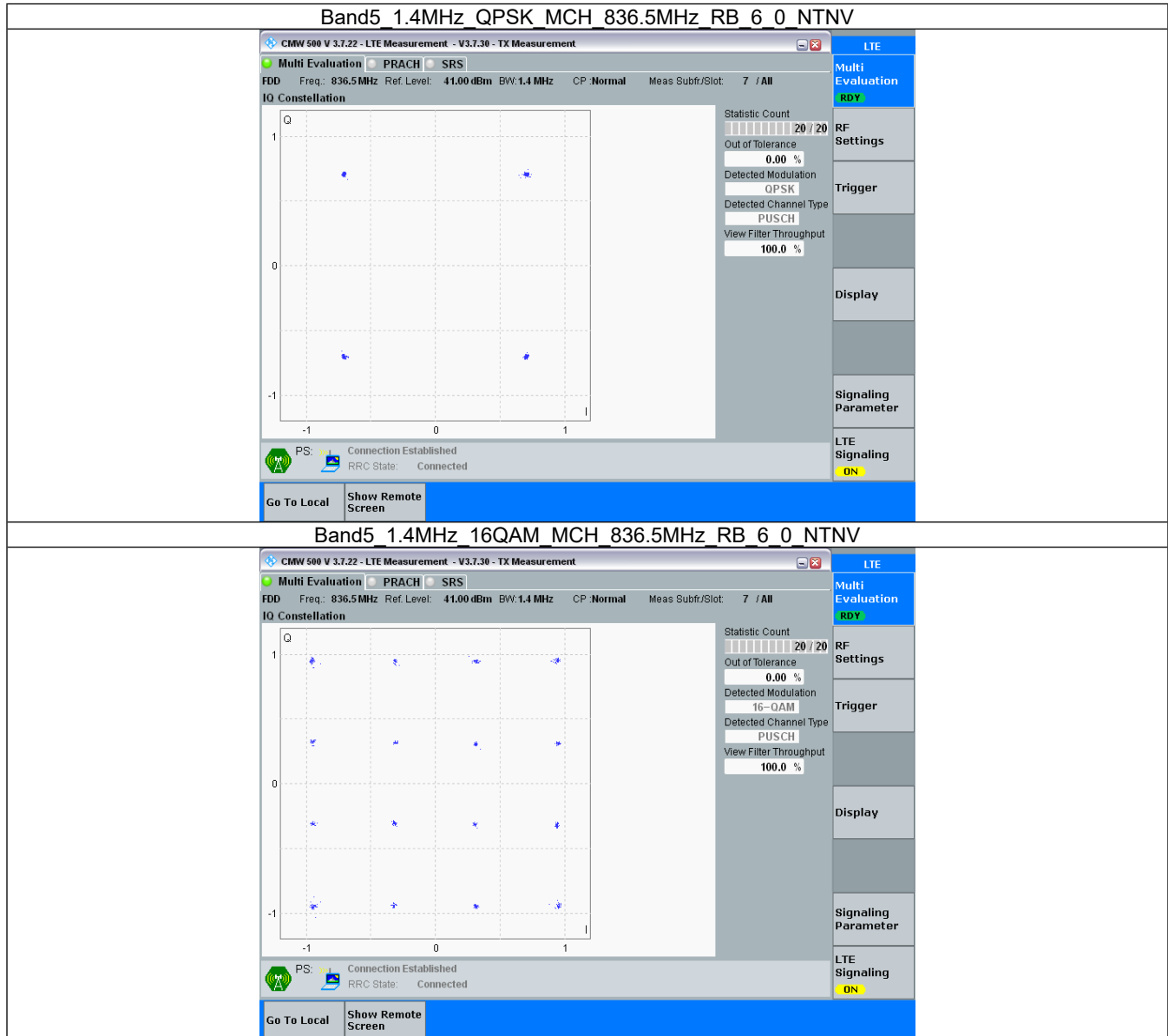
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

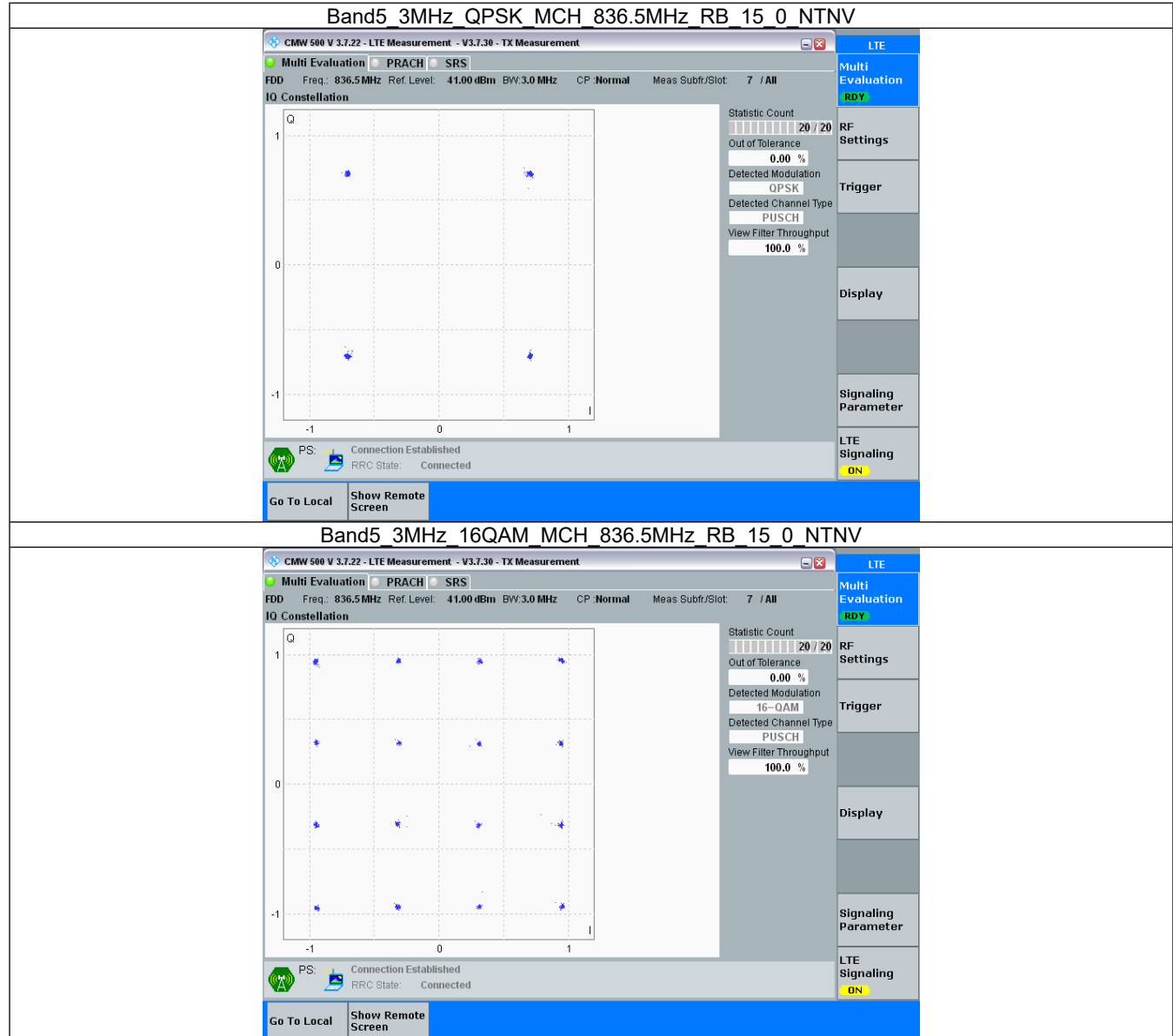
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

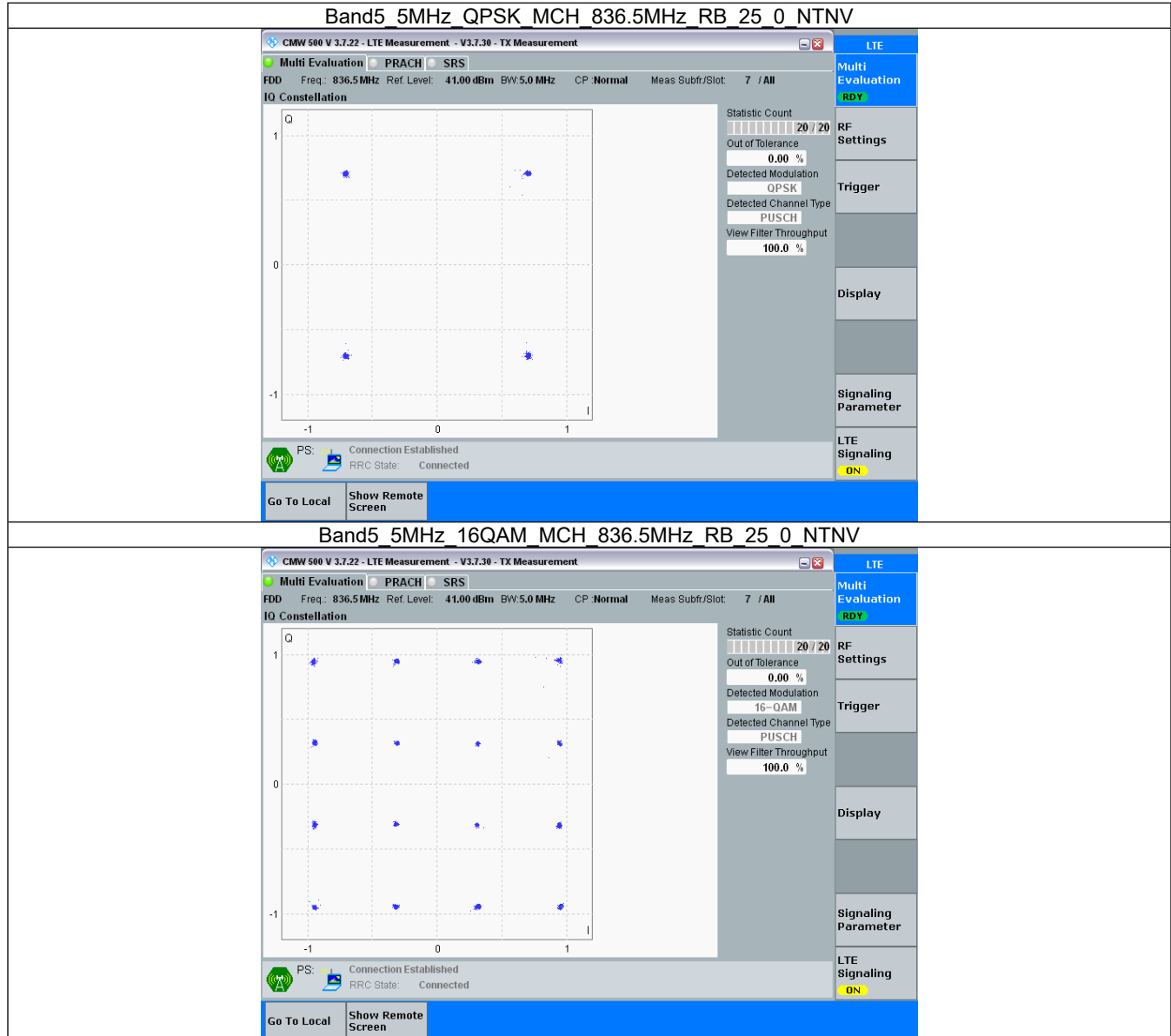
3.2.1 B5_1.4MHz



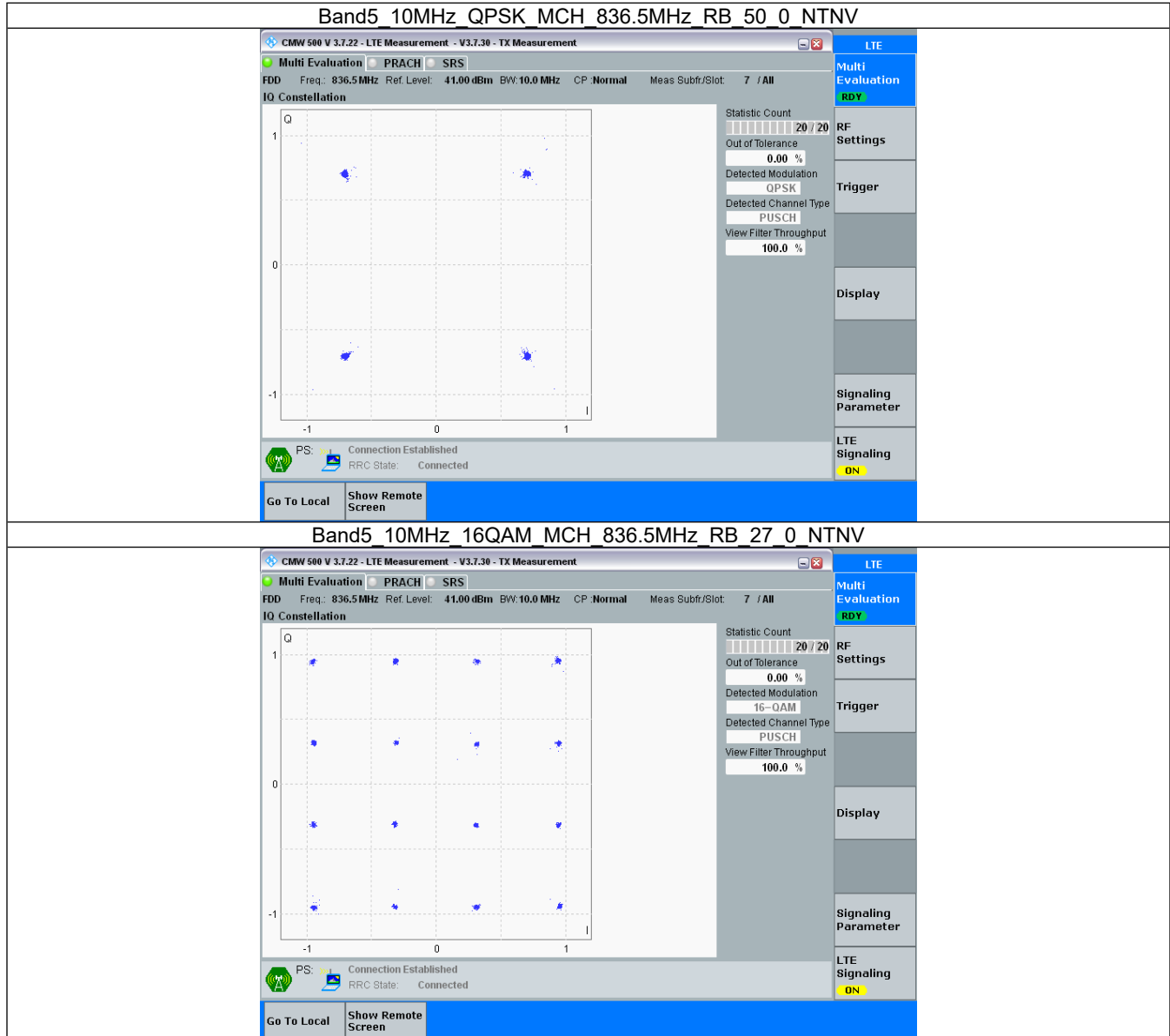
3.2.2 B5_3MHz



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	1.103	/	Pass
		836.5	6	0	1.110	/	Pass
		848.3	6	0	1.114	/	Pass
	16QAM	824.7	6	0	1.102	/	Pass
		836.5	6	0	1.116	/	Pass
		848.3	6	0	1.109	/	Pass
3	QPSK	825.5	15	0	2.743	/	Pass
		836.5	15	0	2.737	/	Pass
		847.5	15	0	2.731	/	Pass
	16QAM	825.5	15	0	2.717	/	Pass
		836.5	15	0	2.726	/	Pass
		847.5	15	0	2.731	/	Pass
5	QPSK	826.5	25	0	4.543	/	Pass
		836.5	25	0	4.537	/	Pass
		846.5	25	0	4.565	/	Pass
	16QAM	826.5	25	0	4.544	/	Pass
		836.5	25	0	4.549	/	Pass
		846.5	25	0	4.540	/	Pass
10	QPSK	829	50	0	9.048	/	Pass
		836.5	50	0	9.038	/	Pass
		844	50	0	9.055	/	Pass
	16QAM	829	27	0	5.097	/	Pass
		836.5	27	0	5.090	/	Pass
		844	27	23	5.141	/	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	1.338	/	Pass
		836.5	6	0	1.320	/	Pass
		848.3	6	0	1.320	/	Pass
	16QAM	824.7	6	0	1.303	/	Pass
		836.5	6	0	1.331	/	Pass
		848.3	6	0	1.332	/	Pass
3	QPSK	825.5	15	0	3.024	/	Pass
		836.5	15	0	2.995	/	Pass
		847.5	15	0	3.038	/	Pass
	16QAM	825.5	15	0	3.006	/	Pass
		836.5	15	0	3.010	/	Pass
		847.5	15	0	3.009	/	Pass
5	QPSK	826.5	25	0	5.023	/	Pass
		836.5	25	0	5.024	/	Pass
		846.5	25	0	5.086	/	Pass
	16QAM	826.5	25	0	5.067	/	Pass
		836.5	25	0	5.061	/	Pass
		846.5	25	0	5.043	/	Pass
10	QPSK	829	50	0	9.978	/	Pass

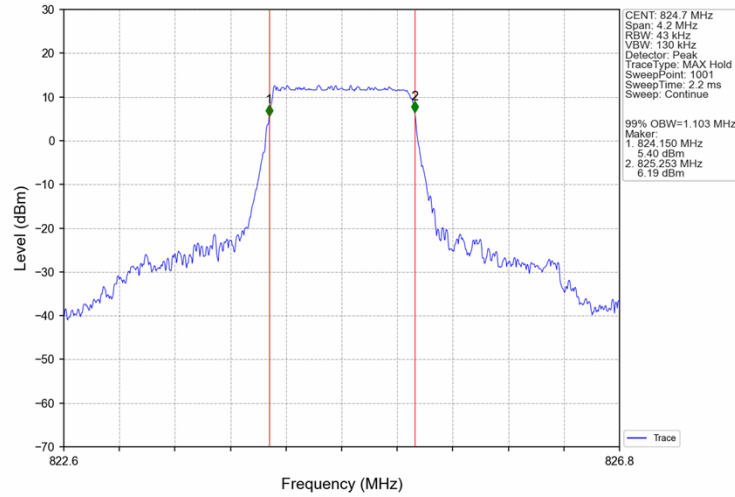


		836.5	50	0	9.947	/	Pass
		844	50	0	10.001	/	Pass
	16QAM	829	27	0	6.121	/	Pass
		836.5	27	0	6.094	/	Pass
		844	27	23	6.185	/	Pass

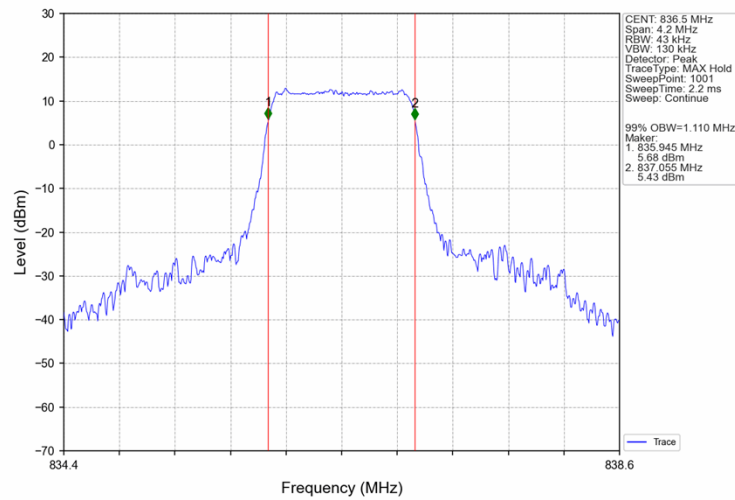
4.2 Test Graph

4.2.1 Band5_OBW

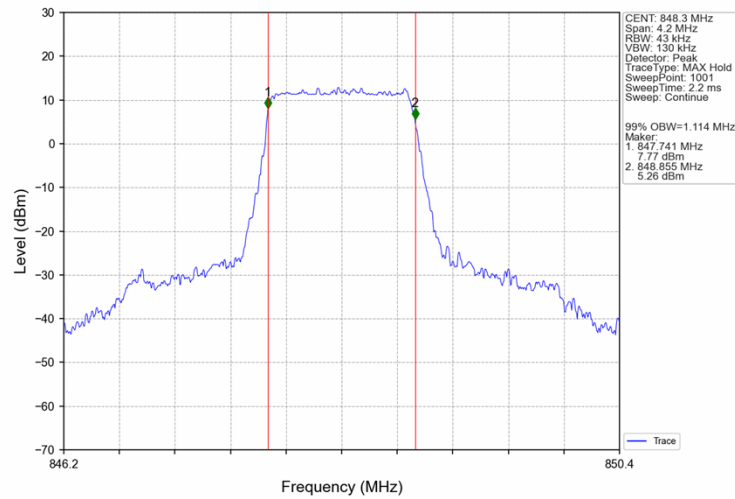
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



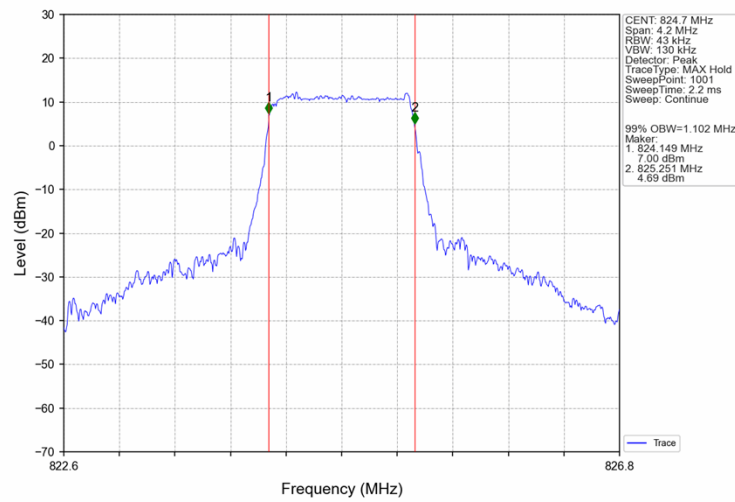
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



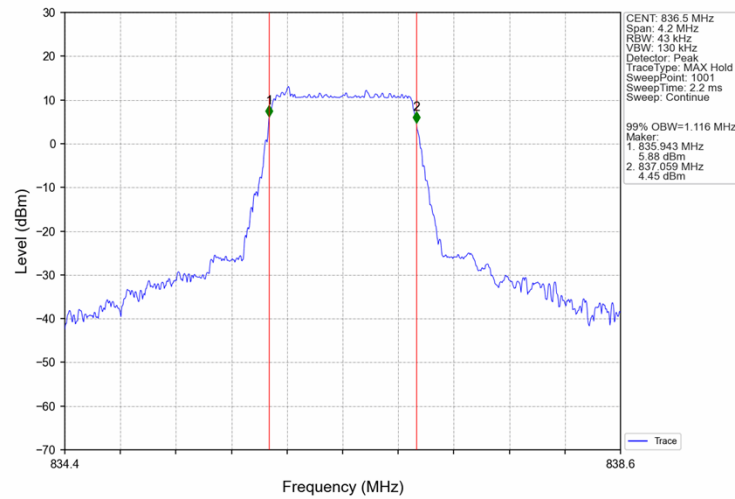
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



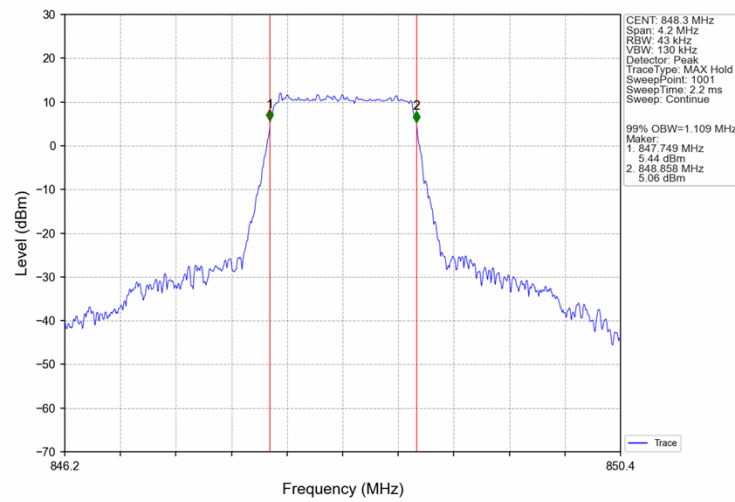
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



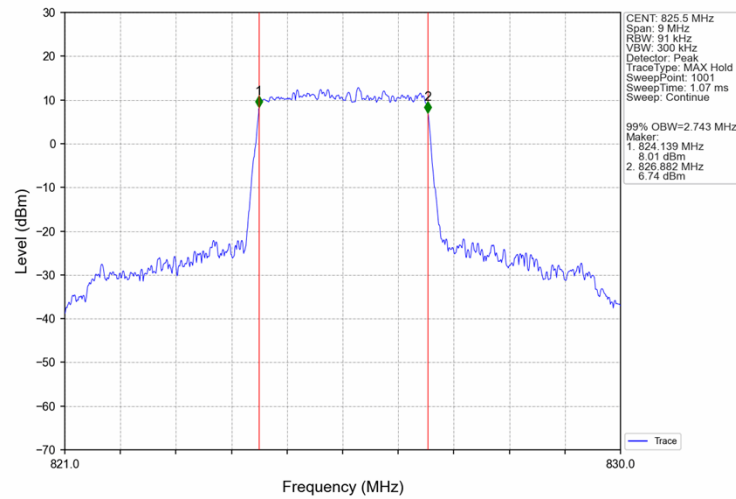
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



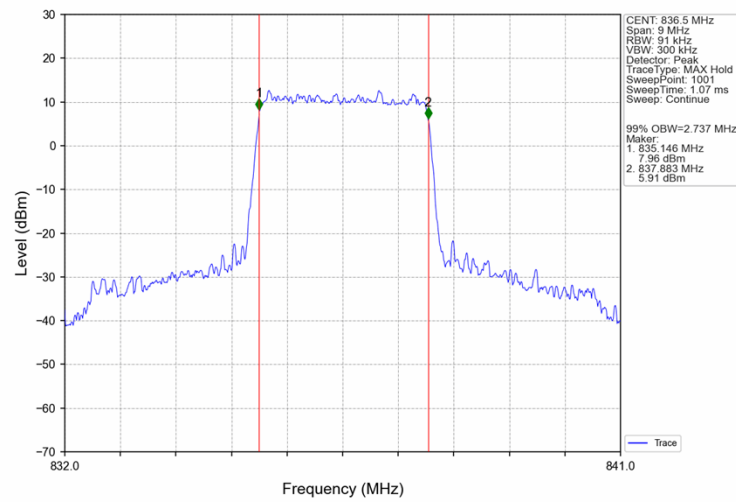
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



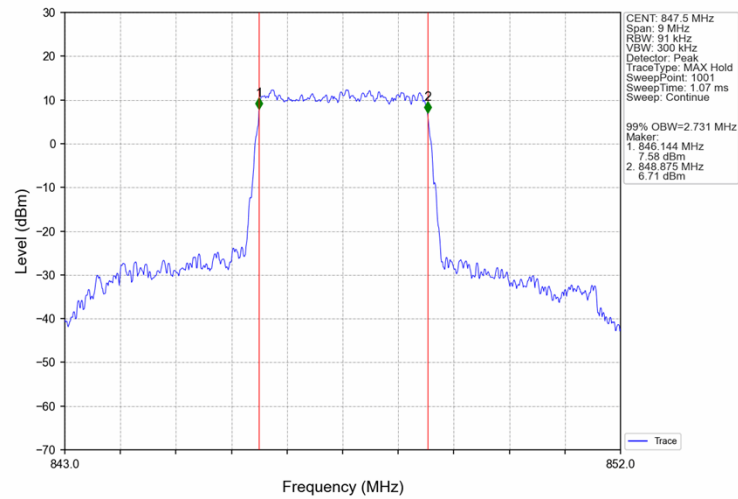
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



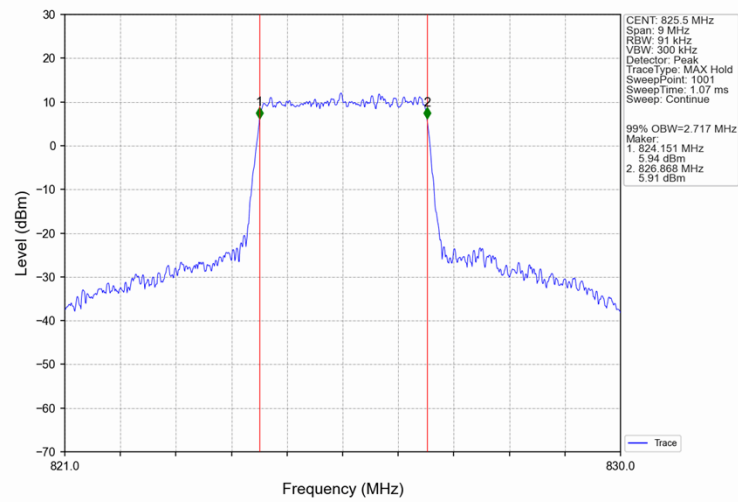
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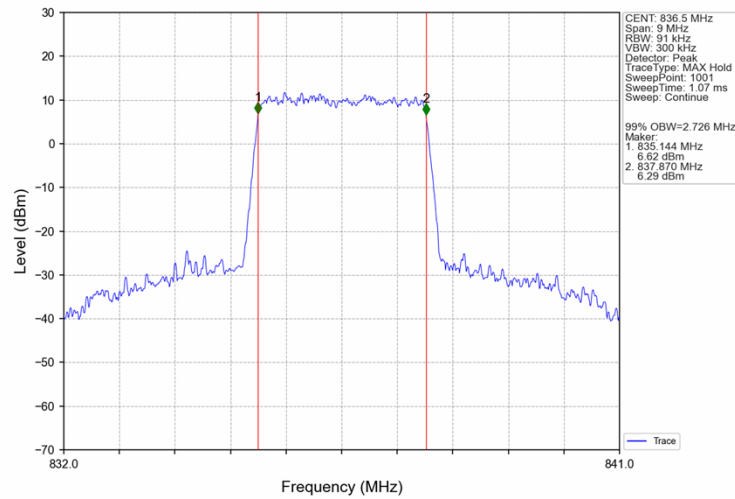
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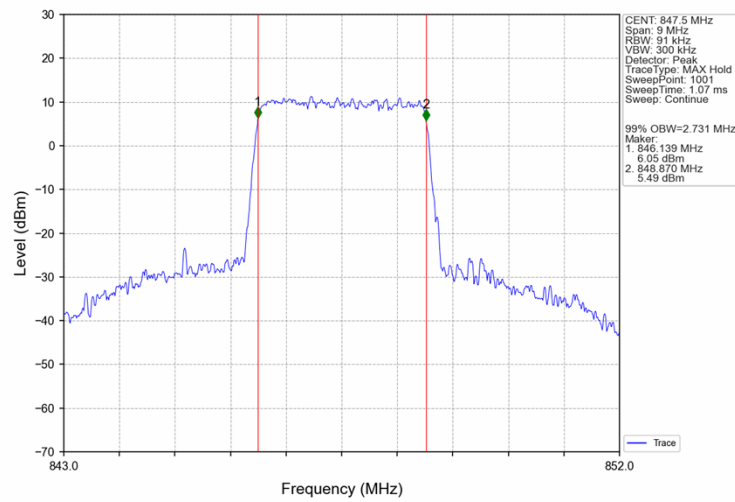
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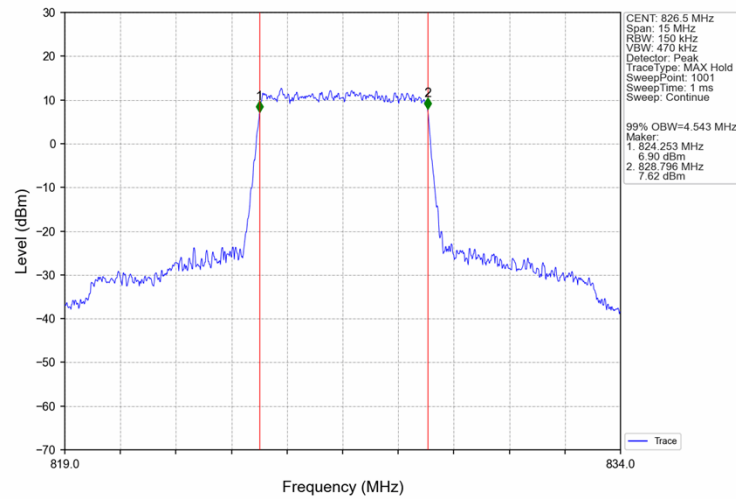
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



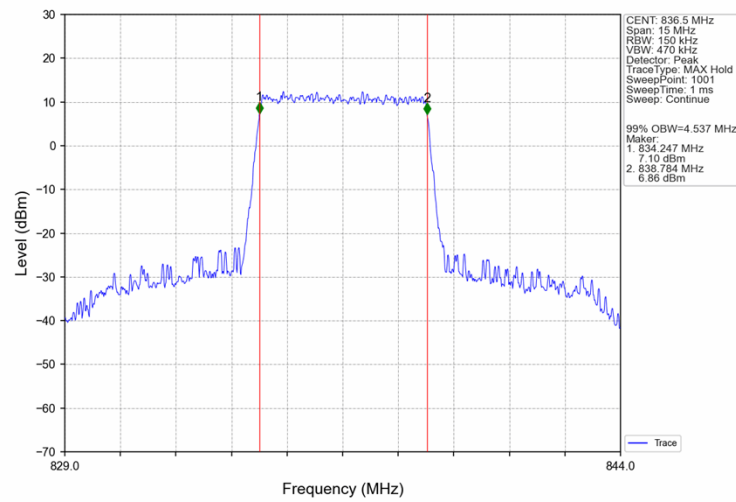
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



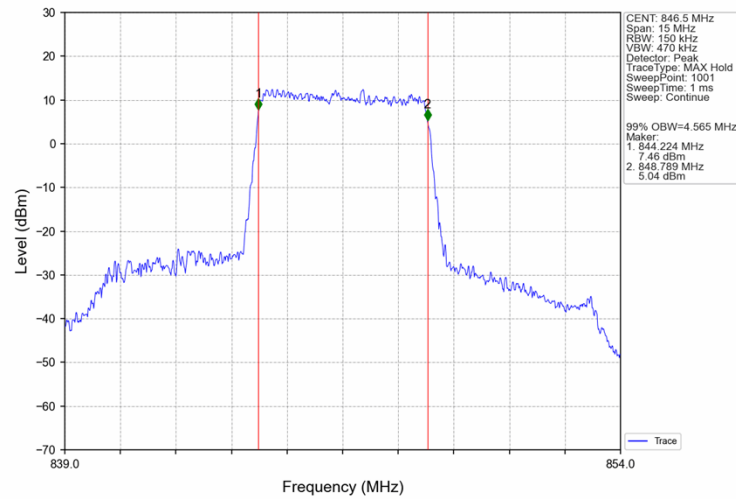
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



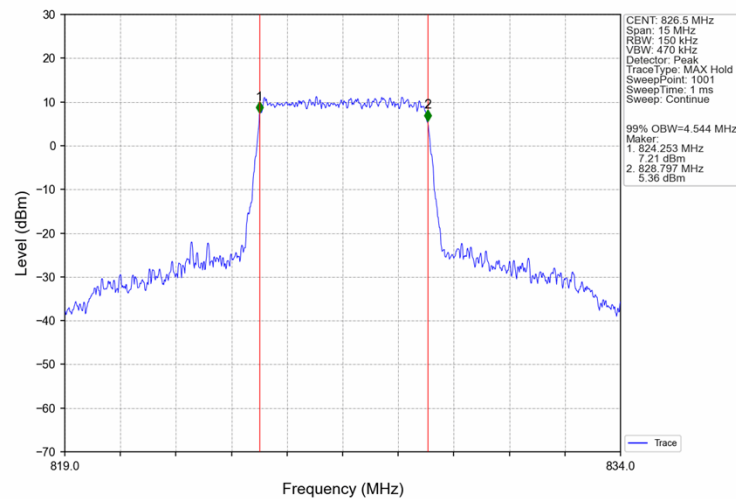
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



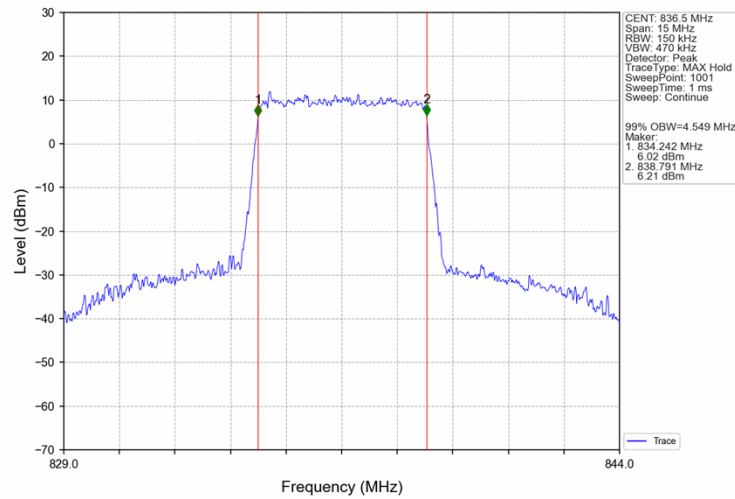
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



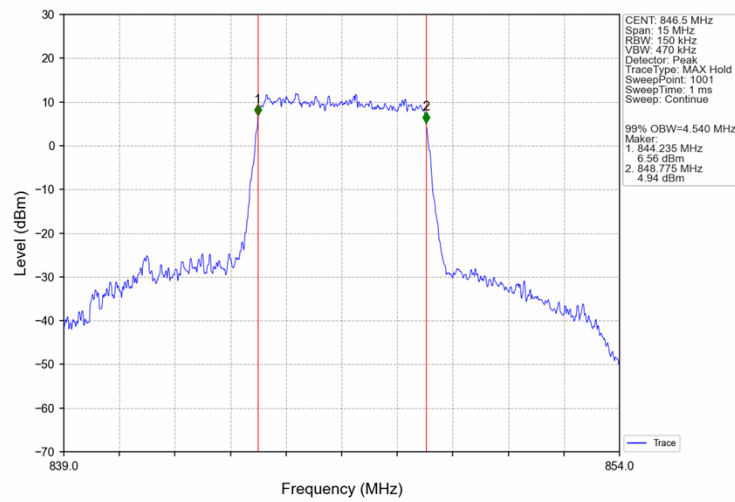
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



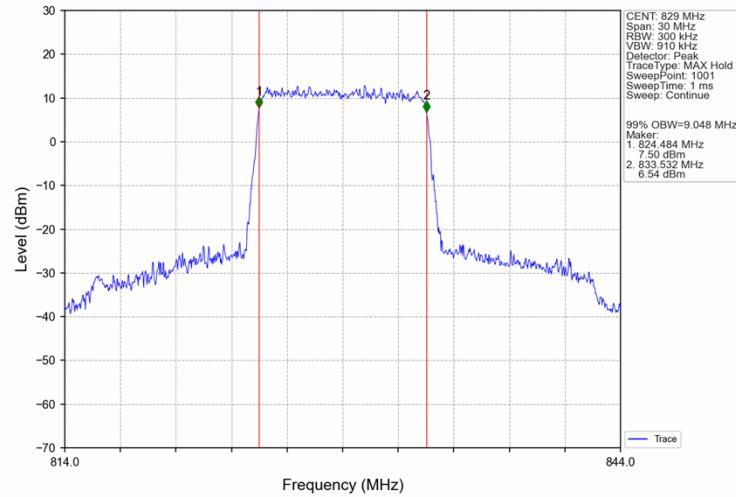
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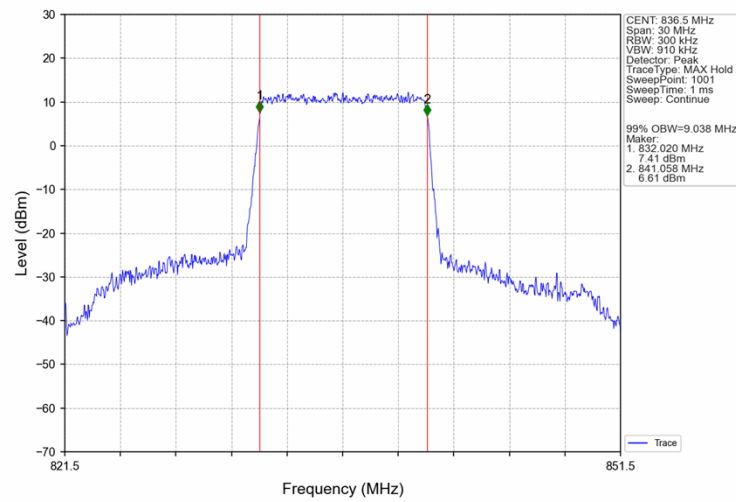
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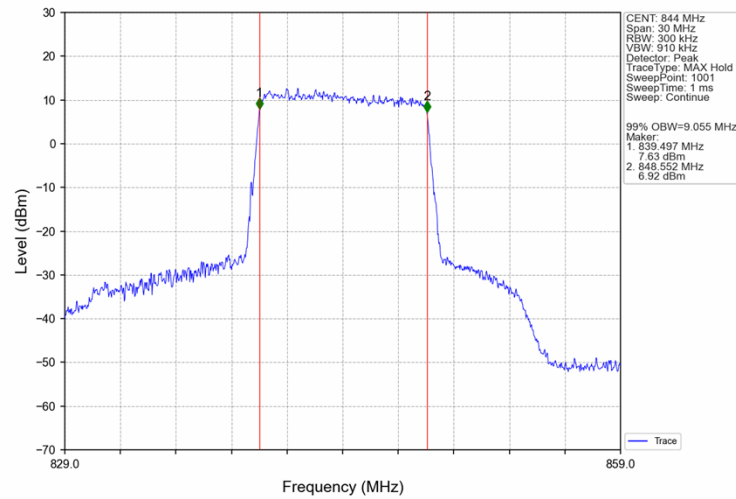
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



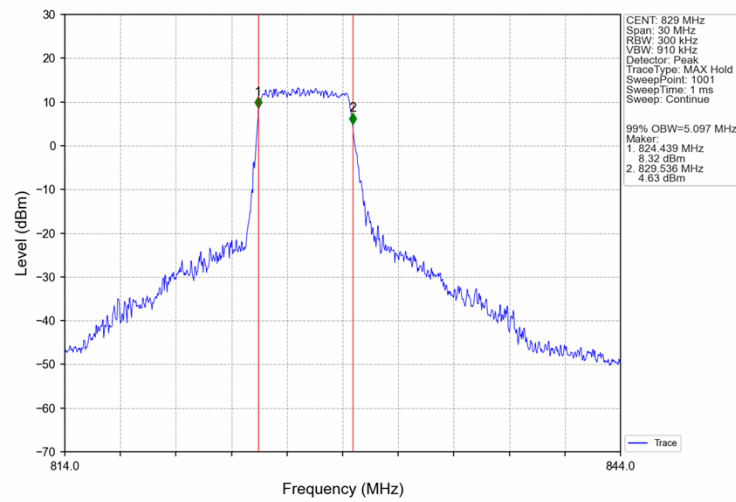
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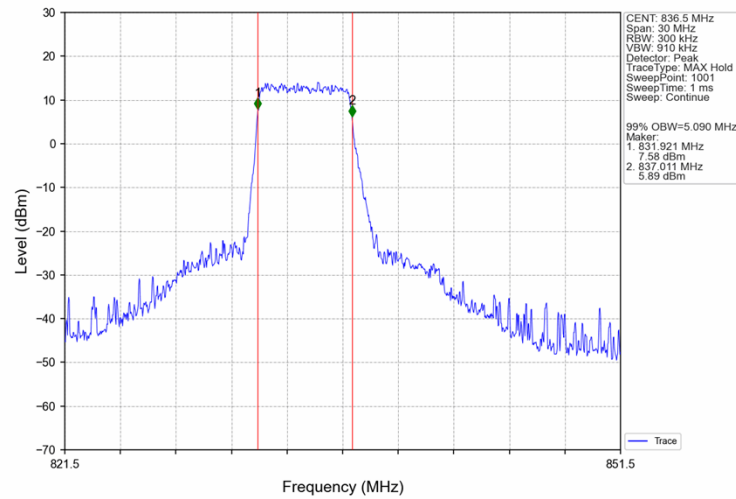
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



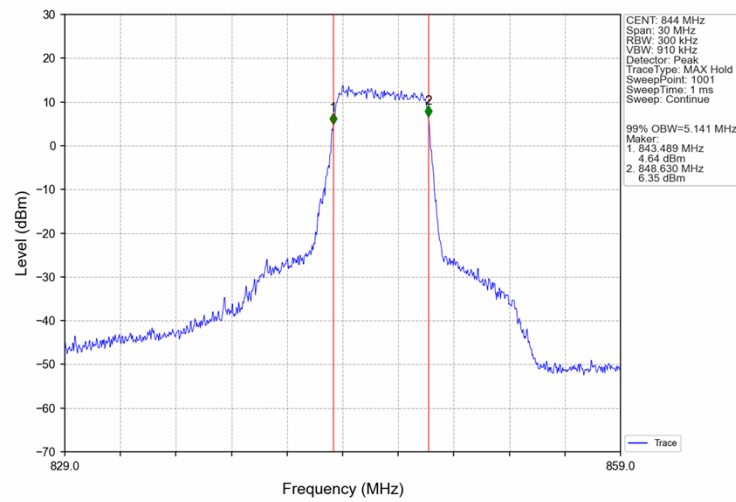
Band5_10MHz_16QAM_LCH_829MHz_RB_27_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_27_0_NTNV

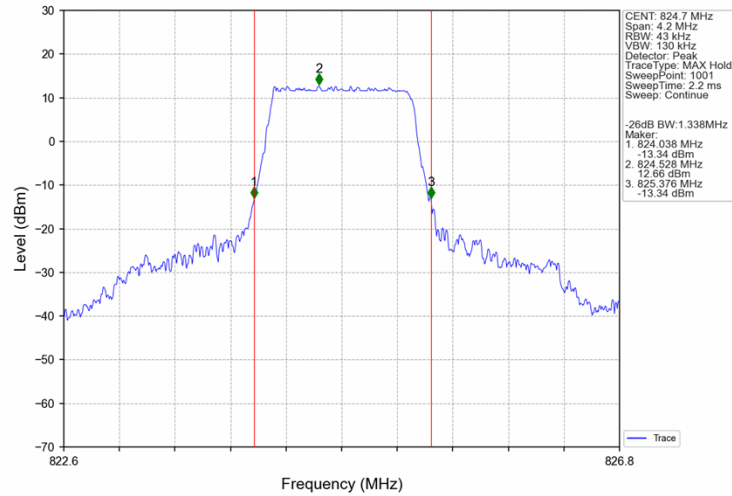


Band5_10MHz_16QAM_HCH_844MHz_RB_27_23_NTNV

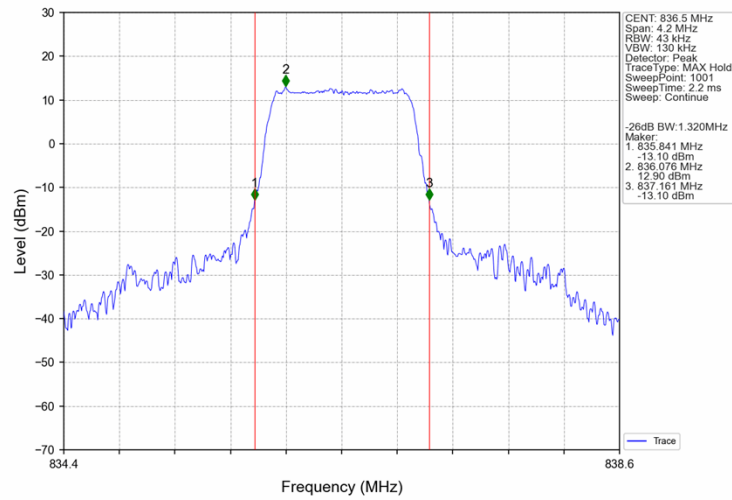


4.2.2 Band5_XDB

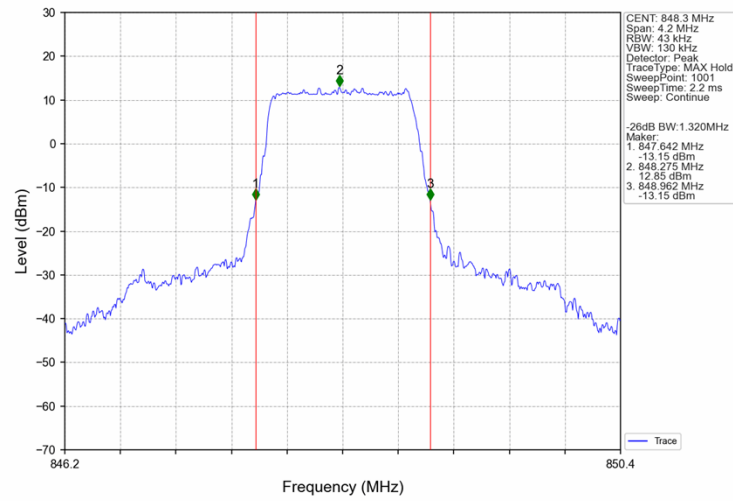
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



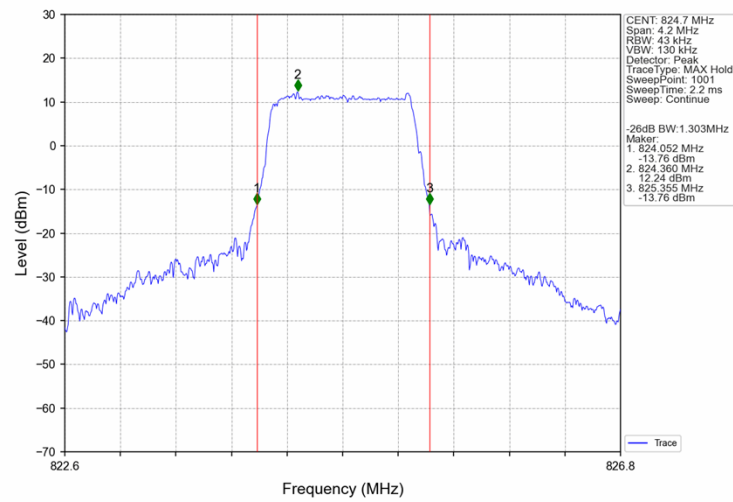
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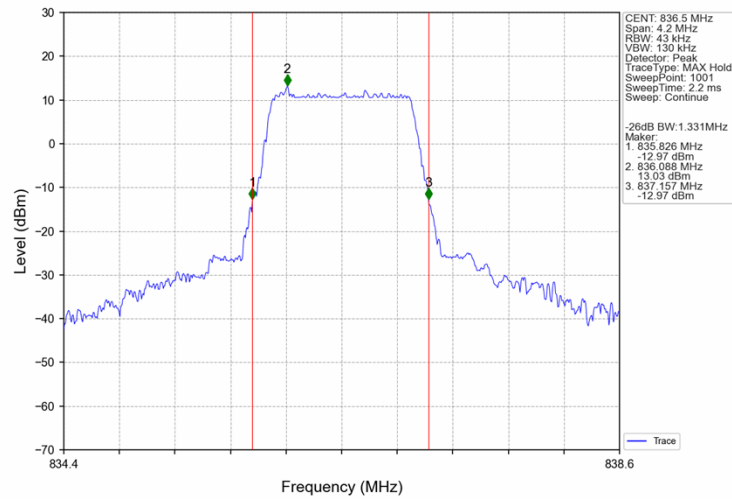
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



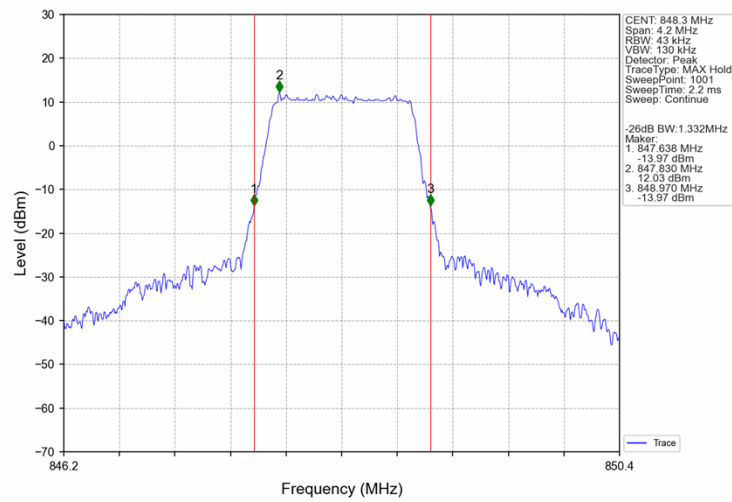
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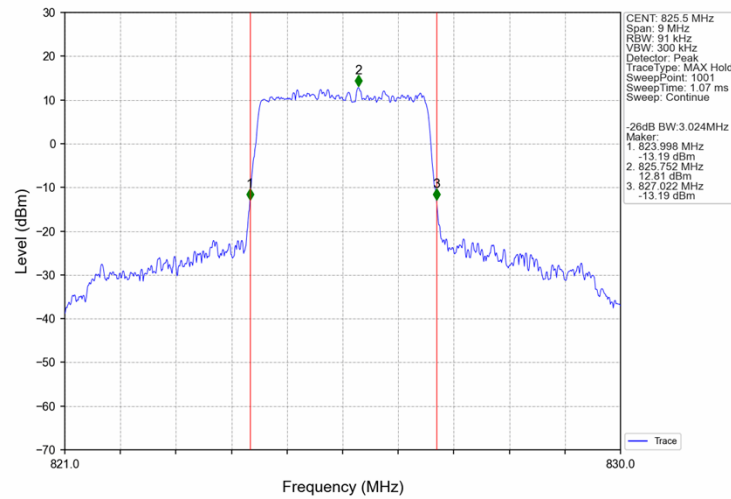
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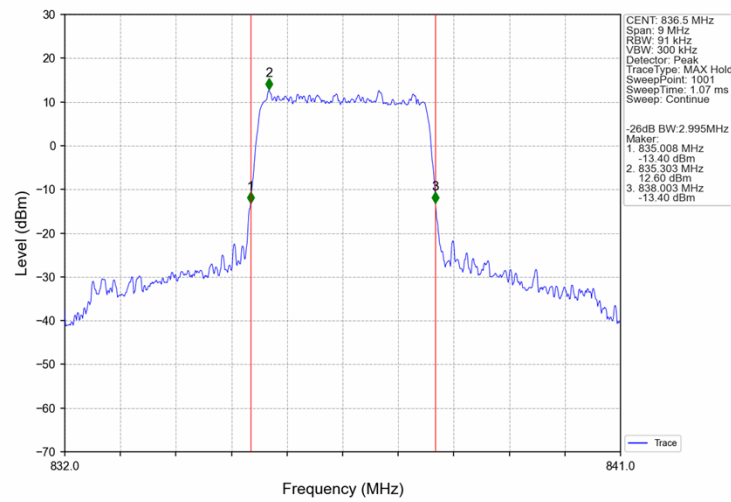
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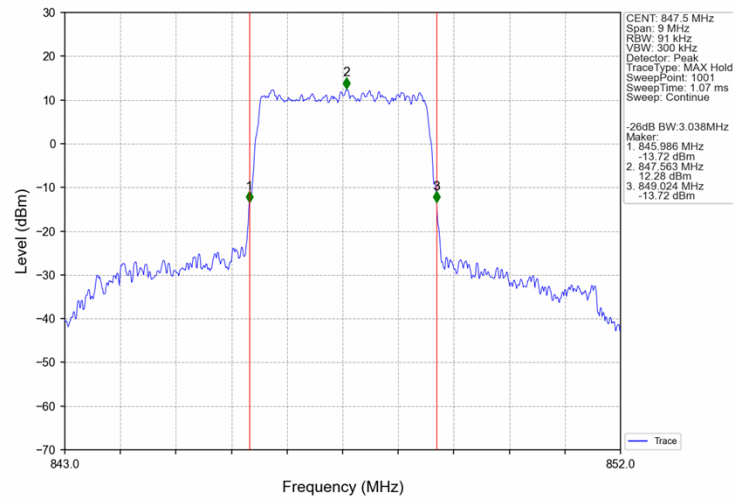
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



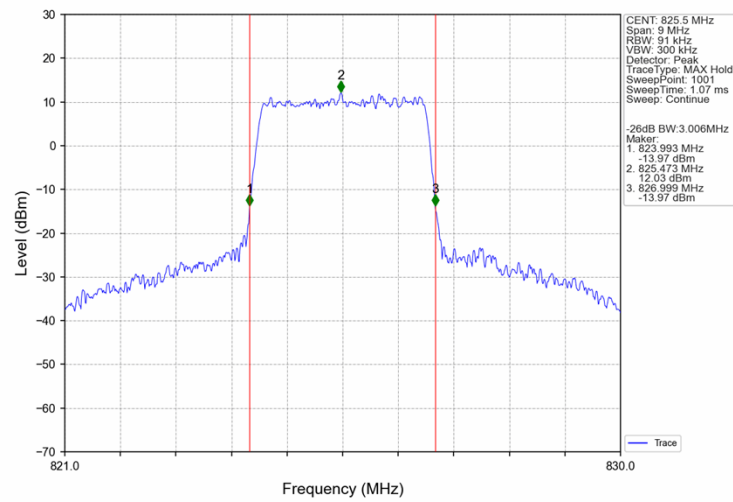
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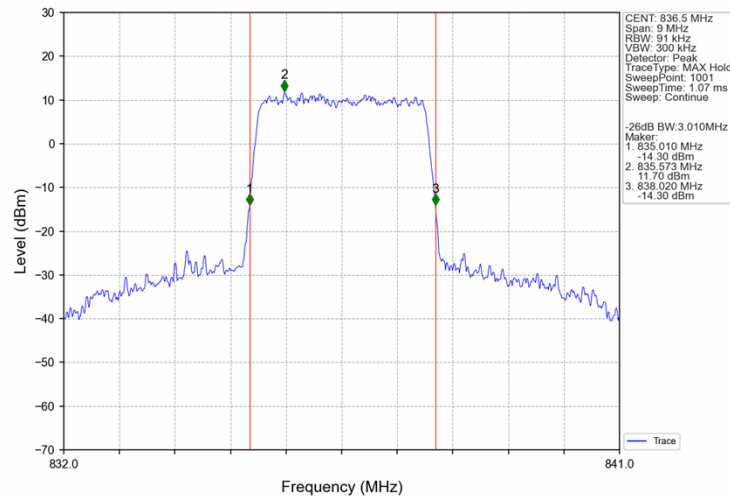
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



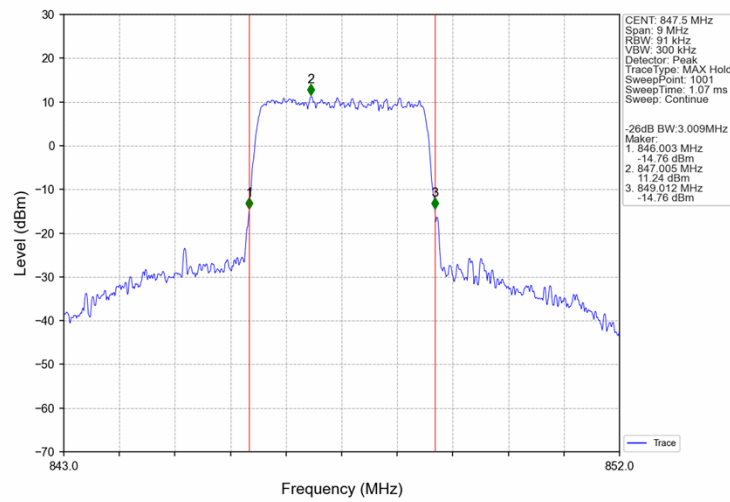
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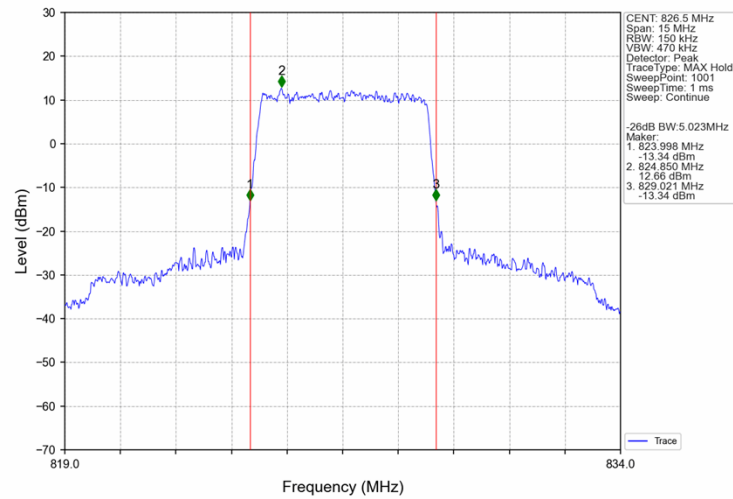
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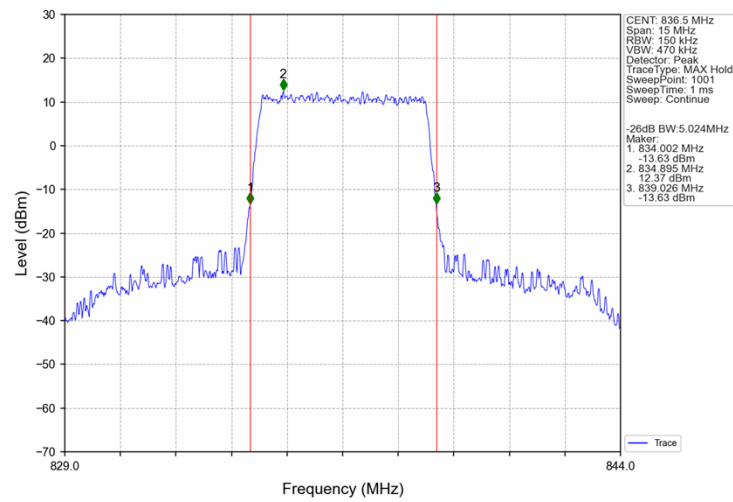
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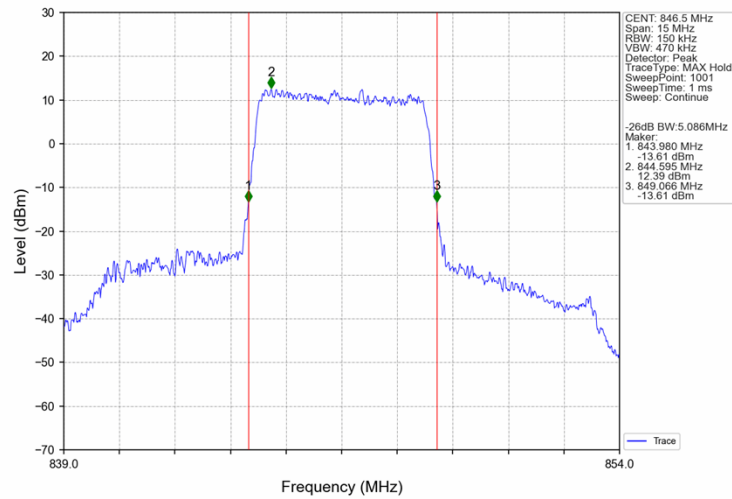
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



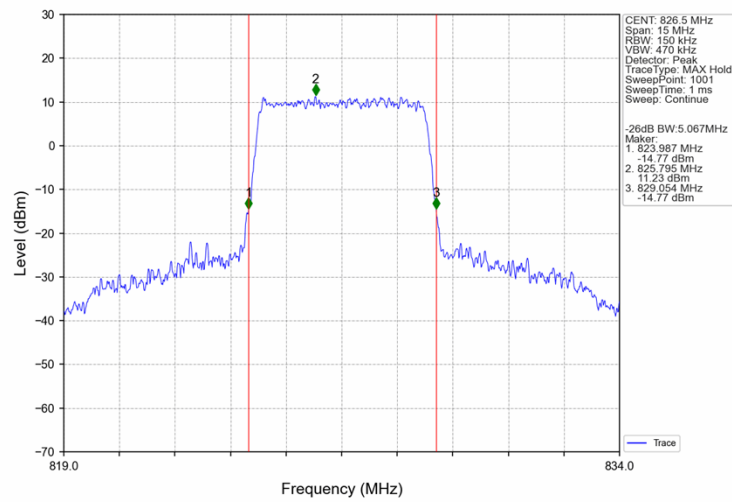
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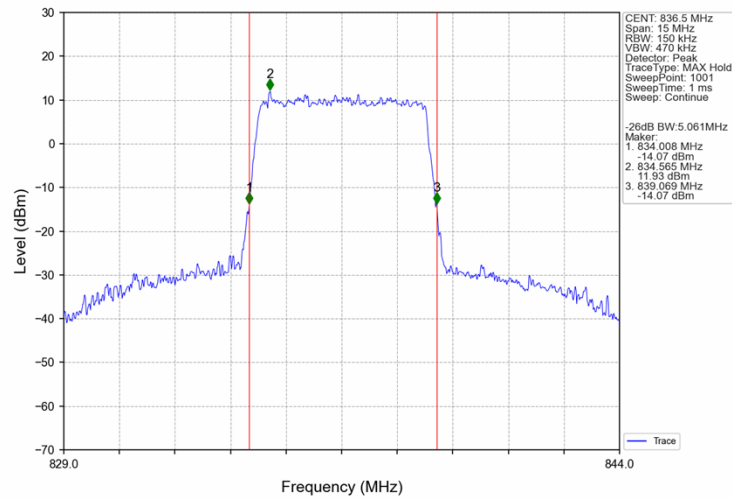
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



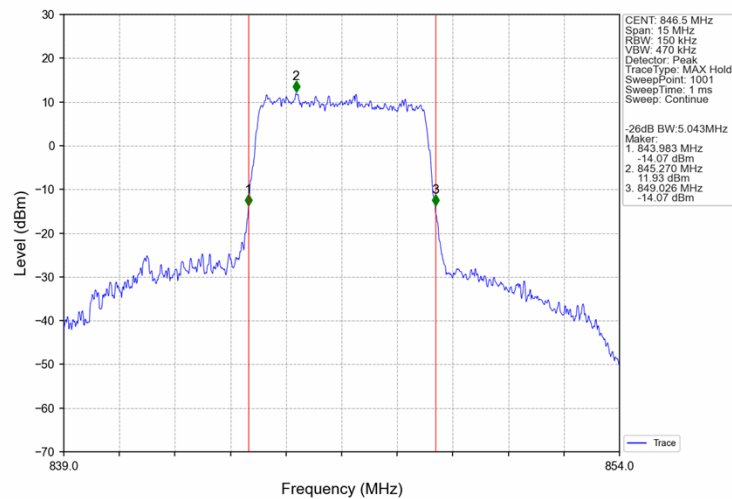
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



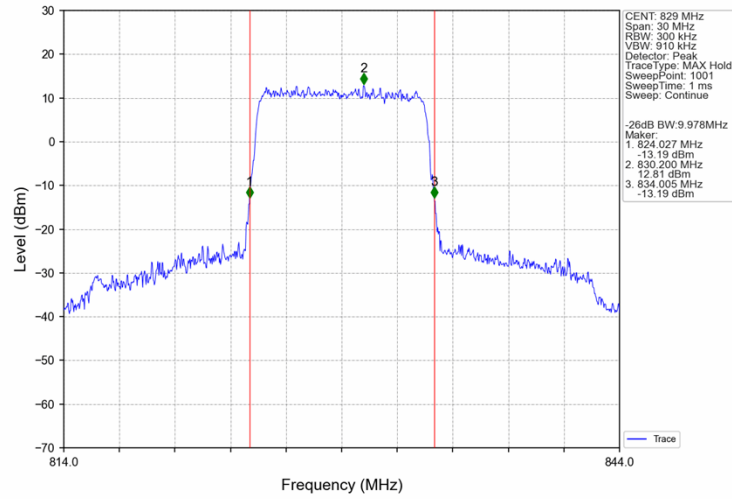
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



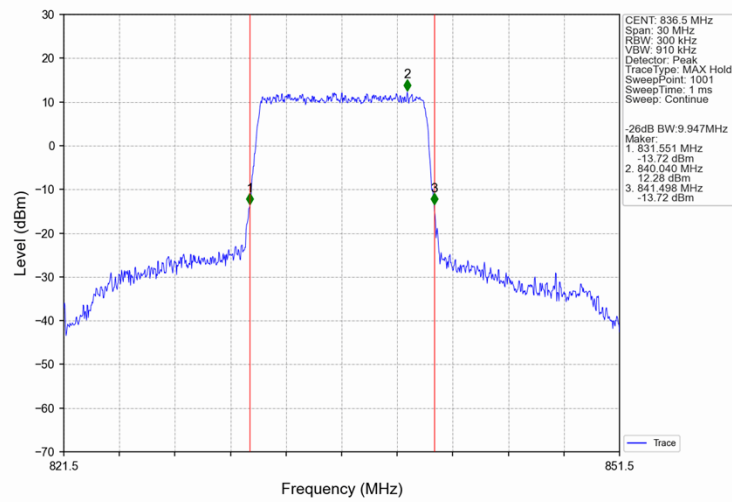
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



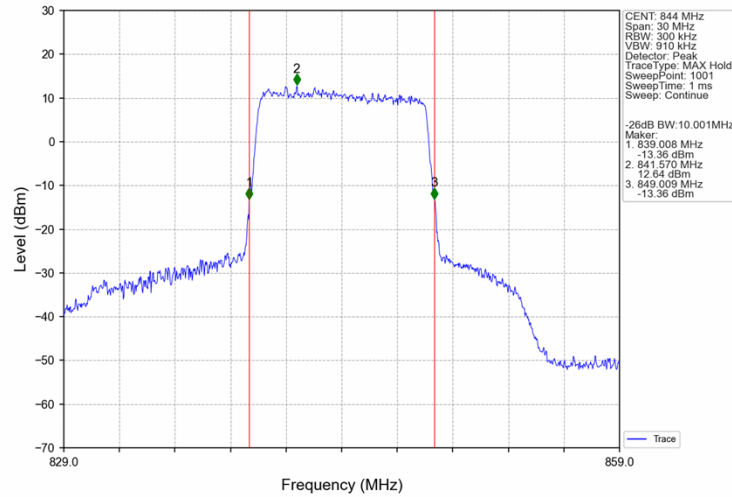
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



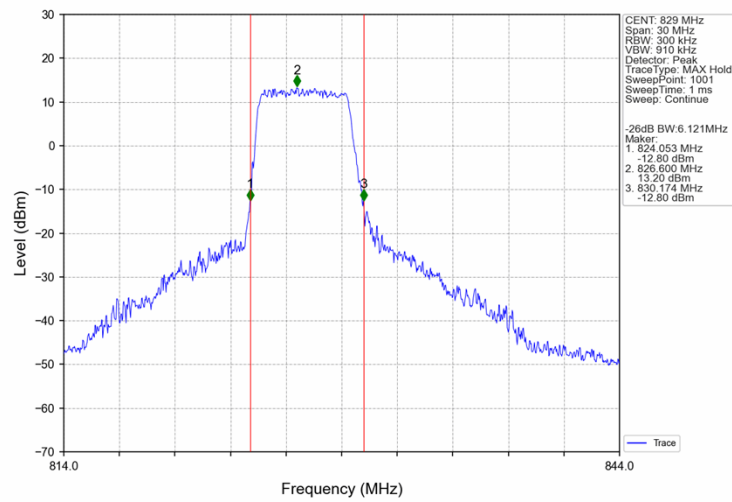
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



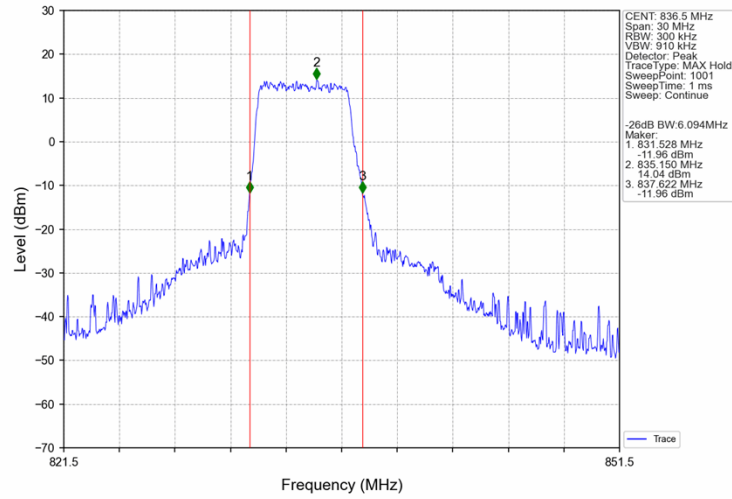
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



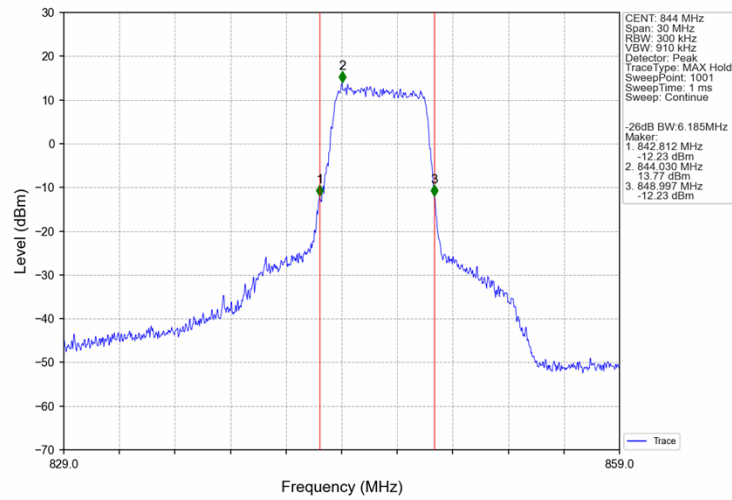
Band5_10MHz_16QAM_LCH_829MHz_RB_27_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_27_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_27_23_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	4.85	<=13	Pass
	836.5	6	0	5.46	<=13	Pass
	848.3	6	0	5.11	<=13	Pass
16QAM	824.7	6	0	5.62	<=13	Pass
	836.5	6	0	6.20	<=13	Pass
	848.3	6	0	5.96	<=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	5.02	<=13	Pass
	836.5	15	0	5.49	<=13	Pass
	847.5	15	0	5.37	<=13	Pass
16QAM	825.5	15	0	5.83	<=13	Pass
	836.5	15	0	6.32	<=13	Pass
	847.5	15	0	6.17	<=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	5.21	<=13	Pass
	836.5	25	0	5.63	<=13	Pass
	846.5	25	0	5.52	<=13	Pass
16QAM	826.5	25	0	5.96	<=13	Pass
	836.5	25	0	6.29	<=13	Pass
	846.5	25	0	6.23	<=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	5.26	<=13	Pass
	836.5	50	0	5.53	<=13	Pass
	844	50	0	5.44	<=13	Pass
16QAM	829	27	0	5.78	<=13	Pass
	836.5	27	0	6.31	<=13	Pass
	844	27	23	6.15	<=13	Pass