

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	23.23	-3.20	17.88	<=34.77	Pass
			2	23.42	-3.20	18.07	<=34.77	Pass
			5	23.21	-3.20	17.86	<=34.77	Pass
		3	0	23.28	-3.20	17.93	<=34.77	Pass
			2	23.28	-3.20	17.93	<=34.77	Pass
			3	22.92	-3.20	17.57	<=34.77	Pass
		6	0	21.90	-3.20	16.55	<=34.77	Pass
	836.5	1	0	22.69	-3.20	17.34	<=34.77	Pass
			2	22.83	-3.20	17.48	<=34.77	Pass
			5	22.73	-3.20	17.38	<=34.77	Pass
		3	0	22.79	-3.20	17.44	<=34.77	Pass
			2	22.82	-3.20	17.47	<=34.77	Pass
			3	22.83	-3.20	17.48	<=34.77	Pass
		6	0	21.76	-3.20	16.41	<=34.77	Pass
	848.3	1	0	23.11	-3.20	17.76	<=34.77	Pass
			2	23.31	-3.20	17.96	<=34.77	Pass
			5	23.12	-3.20	17.77	<=34.77	Pass
		3	0	23.21	-3.20	17.86	<=34.77	Pass
			2	23.24	-3.20	17.89	<=34.77	Pass
			3	23.22	-3.20	17.87	<=34.77	Pass
		6	0	22.20	-3.20	16.85	<=34.77	Pass
16QAM	824.7	1	0	21.88	-3.20	16.53	<=34.77	Pass
			2	22.07	-3.20	16.72	<=34.77	Pass
			5	21.90	-3.20	16.55	<=34.77	Pass
		3	0	21.72	-3.20	16.37	<=34.77	Pass
			2	21.72	-3.20	16.37	<=34.77	Pass
			3	21.71	-3.20	16.36	<=34.77	Pass
		6	0	20.88	-3.20	15.53	<=34.77	Pass
	836.5	1	0	21.85	-3.20	16.50	<=34.77	Pass
			2	22.05	-3.20	16.70	<=34.77	Pass
			5	21.81	-3.20	16.46	<=34.77	Pass
		3	0	21.70	-3.20	16.35	<=34.77	Pass
			2	21.72	-3.20	16.37	<=34.77	Pass
			3	21.68	-3.20	16.33	<=34.77	Pass
		6	0	20.74	-3.20	15.39	<=34.77	Pass
	848.3	1	0	22.30	-3.20	16.95	<=34.77	Pass
			2	22.49	-3.20	17.14	<=34.77	Pass
			5	22.30	-3.20	16.95	<=34.77	Pass
		3	0	22.15	-3.20	16.80	<=34.77	Pass
			2	22.00	-3.20	16.65	<=34.77	Pass
			3	21.86	-3.20	16.51	<=34.77	Pass
		6	0	21.10	-3.20	15.75	<=34.77	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	23.23	-3.20	17.88	<=34.77	Pass
			7	23.49	-3.20	18.14	<=34.77	Pass
			14	22.87	-3.20	17.52	<=34.77	Pass
		8	0	21.77	-3.20	16.42	<=34.77	Pass
			4	21.79	-3.20	16.44	<=34.77	Pass
			7	21.73	-3.20	16.38	<=34.77	Pass
		15	0	21.72	-3.20	16.37	<=34.77	Pass
	836.5	1	0	22.79	-3.20	17.44	<=34.77	Pass
			7	23.04	-3.20	17.69	<=34.77	Pass
			14	22.75	-3.20	17.40	<=34.77	Pass
		8	0	21.75	-3.20	16.40	<=34.77	Pass
			4	21.76	-3.20	16.41	<=34.77	Pass
			7	21.73	-3.20	16.38	<=34.77	Pass
		15	0	21.72	-3.20	16.37	<=34.77	Pass
	847.5	1	0	22.75	-3.20	17.40	<=34.77	Pass
			7	22.96	-3.20	17.61	<=34.77	Pass
			14	22.66	-3.20	17.31	<=34.77	Pass
		8	0	21.68	-3.20	16.33	<=34.77	Pass
			4	21.73	-3.20	16.38	<=34.77	Pass
			7	21.68	-3.20	16.33	<=34.77	Pass
		15	0	21.64	-3.20	16.29	<=34.77	Pass
16QAM	825.5	1	0	21.92	-3.20	16.57	<=34.77	Pass
			7	22.13	-3.20	16.78	<=34.77	Pass
			14	21.85	-3.20	16.50	<=34.77	Pass
		8	0	20.87	-3.20	15.52	<=34.77	Pass
			4	20.87	-3.20	15.52	<=34.77	Pass
			7	20.81	-3.20	15.46	<=34.77	Pass
		15	0	20.75	-3.20	15.40	<=34.77	Pass
	836.5	1	0	21.66	-3.20	16.31	<=34.77	Pass
			7	21.89	-3.20	16.54	<=34.77	Pass
			14	21.65	-3.20	16.30	<=34.77	Pass
		8	0	20.87	-3.20	15.52	<=34.77	Pass
			4	20.88	-3.20	15.53	<=34.77	Pass
			7	20.83	-3.20	15.48	<=34.77	Pass
		15	0	20.72	-3.20	15.37	<=34.77	Pass
	847.5	1	0	21.87	-3.20	16.52	<=34.77	Pass
			7	22.04	-3.20	16.69	<=34.77	Pass
			14	21.79	-3.20	16.44	<=34.77	Pass
		8	0	20.78	-3.20	15.43	<=34.77	Pass
			4	20.83	-3.20	15.48	<=34.77	Pass
			7	20.77	-3.20	15.42	<=34.77	Pass
		15	0	20.68	-3.20	15.33	<=34.77	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	22.65	-3.20	17.30	<=34.77	Pass
			13	22.78	-3.20	17.43	<=34.77	Pass
			24	22.69	-3.20	17.34	<=34.77	Pass
		12	0	21.80	-3.20	16.45	<=34.77	Pass
			6	21.77	-3.20	16.42	<=34.77	Pass
			13	21.79	-3.20	16.44	<=34.77	Pass
		25	0	21.80	-3.20	16.45	<=34.77	Pass
	836.5	1	0	22.72	-3.20	17.37	<=34.77	Pass
			13	22.85	-3.20	17.50	<=34.77	Pass
			24	22.70	-3.20	17.35	<=34.77	Pass
		12	0	21.68	-3.20	16.33	<=34.77	Pass
			6	21.80	-3.20	16.45	<=34.77	Pass
			13	21.67	-3.20	16.32	<=34.77	Pass
		25	0	21.67	-3.20	16.32	<=34.77	Pass
	846.5	1	0	22.62	-3.20	17.27	<=34.77	Pass
			13	22.76	-3.20	17.41	<=34.77	Pass
			24	22.63	-3.20	17.28	<=34.77	Pass
		12	0	21.59	-3.20	16.24	<=34.77	Pass
			6	21.74	-3.20	16.39	<=34.77	Pass
			13	21.71	-3.20	16.36	<=34.77	Pass
		25	0	21.68	-3.20	16.33	<=34.77	Pass
16QAM	826.5	1	0	21.83	-3.20	16.48	<=34.77	Pass
			13	21.93	-3.20	16.58	<=34.77	Pass
			24	21.85	-3.20	16.50	<=34.77	Pass
		12	0	20.87	-3.20	15.52	<=34.77	Pass
			6	20.86	-3.20	15.51	<=34.77	Pass
			13	20.88	-3.20	15.53	<=34.77	Pass
		25	0	20.85	-3.20	15.50	<=34.77	Pass
	836.5	1	0	21.79	-3.20	16.44	<=34.77	Pass
			13	21.91	-3.20	16.56	<=34.77	Pass
			24	21.81	-3.20	16.46	<=34.77	Pass
		12	0	20.70	-3.20	15.35	<=34.77	Pass
			6	20.88	-3.20	15.53	<=34.77	Pass
			13	20.78	-3.20	15.43	<=34.77	Pass
		25	0	20.82	-3.20	15.47	<=34.77	Pass
	846.5	1	0	21.66	-3.20	16.31	<=34.77	Pass
			13	21.79	-3.20	16.44	<=34.77	Pass
			24	21.65	-3.20	16.30	<=34.77	Pass
		12	0	20.65	-3.20	15.30	<=34.77	Pass
			6	20.81	-3.20	15.46	<=34.77	Pass
			13	20.76	-3.20	15.41	<=34.77	Pass
		25	0	20.77	-3.20	15.42	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	22.68	-3.20	17.33	<=34.77	Pass
			25	22.81	-3.20	17.46	<=34.77	Pass
			49	22.72	-3.20	17.37	<=34.77	Pass
		25	0	21.78	-3.20	16.43	<=34.77	Pass
			13	21.76	-3.20	16.41	<=34.77	Pass
			25	21.87	-3.20	16.52	<=34.77	Pass
		50	0	21.76	-3.20	16.41	<=34.77	Pass
			0	22.72	-3.20	17.37	<=34.77	Pass
			25	22.89	-3.20	17.54	<=34.77	Pass
	836.5	1	49	22.72	-3.20	17.37	<=34.77	Pass
			0	21.65	-3.20	16.30	<=34.77	Pass
			13	21.77	-3.20	16.42	<=34.77	Pass
		25	25	21.66	-3.20	16.31	<=34.77	Pass
			0	21.62	-3.20	16.27	<=34.77	Pass
			0	22.62	-3.20	17.27	<=34.77	Pass
		50	25	22.74	-3.20	17.39	<=34.77	Pass
			49	22.61	-3.20	17.26	<=34.77	Pass
			0	21.82	-3.20	16.47	<=34.77	Pass
	844	25	13	21.76	-3.20	16.41	<=34.77	Pass
			25	21.92	-3.20	16.57	<=34.77	Pass
			0	21.82	-3.20	16.47	<=34.77	Pass
16QAM	829	1	0	21.82	-3.20	16.47	<=34.77	Pass
			25	21.93	-3.20	16.58	<=34.77	Pass
			49	21.94	-3.20	16.59	<=34.77	Pass
		25	0	20.81	-3.20	15.46	<=34.77	Pass
			13	20.86	-3.20	15.51	<=34.77	Pass
			25	20.96	-3.20	15.61	<=34.77	Pass
		50	0	20.85	-3.20	15.50	<=34.77	Pass
			0	21.62	-3.20	16.27	<=34.77	Pass
			25	21.77	-3.20	16.42	<=34.77	Pass
	836.5	1	49	21.62	-3.20	16.27	<=34.77	Pass
			0	20.80	-3.20	15.45	<=34.77	Pass
			13	20.87	-3.20	15.52	<=34.77	Pass
		25	25	20.79	-3.20	15.44	<=34.77	Pass
			0	20.71	-3.20	15.36	<=34.77	Pass
			0	21.85	-3.20	16.50	<=34.77	Pass
		50	25	21.88	-3.20	16.53	<=34.77	Pass
			49	21.83	-3.20	16.48	<=34.77	Pass
			0	20.90	-3.20	15.55	<=34.77	Pass
	844	25	13	20.83	-3.20	15.48	<=34.77	Pass
			25	20.97	-3.20	15.62	<=34.77	Pass
			0	20.93	-3.20	15.58	<=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	3.23	-4.592	-0.0056	-2.5 to 2.5	Pass
					3.80	-3.805	-0.0046	-2.5 to 2.5	Pass
					4.37	-5.651	-0.0069	-2.5 to 2.5	Pass
				-30	3.80	-6.566	-0.0080	-2.5 to 2.5	Pass
				-20	3.80	-8.554	-0.0104	-2.5 to 2.5	Pass
				-10	3.80	-6.666	-0.0081	-2.5 to 2.5	Pass
				0	3.80	-8.969	-0.0109	-2.5 to 2.5	Pass
				10	3.80	-8.469	-0.0103	-2.5 to 2.5	Pass
				30	3.80	-7.181	-0.0087	-2.5 to 2.5	Pass
				40	3.80	-8.268	-0.0100	-2.5 to 2.5	Pass
				50	3.80	-5.236	-0.0063	-2.5 to 2.5	Pass
	836.5	6	0	20	3.23	-2.904	-0.0035	-2.5 to 2.5	Pass
					3.80	-5.121	-0.0061	-2.5 to 2.5	Pass
					4.37	-1.674	-0.0020	-2.5 to 2.5	Pass
				-30	3.80	-8.068	-0.0096	-2.5 to 2.5	Pass
				-20	3.80	-5.107	-0.0061	-2.5 to 2.5	Pass
				-10	3.80	-4.377	-0.0052	-2.5 to 2.5	Pass
				0	3.80	-0.930	-0.0011	-2.5 to 2.5	Pass
				10	3.80	-2.403	-0.0029	-2.5 to 2.5	Pass
				30	3.80	-7.839	-0.0094	-2.5 to 2.5	Pass
				40	3.80	-3.147	-0.0038	-2.5 to 2.5	Pass
				50	3.80	-4.478	-0.0054	-2.5 to 2.5	Pass
	848.3	6	0	20	3.23	-1.616	-0.0019	-2.5 to 2.5	Pass
					3.80	-5.178	-0.0061	-2.5 to 2.5	Pass
					4.37	-11.888	-0.0140	-2.5 to 2.5	Pass
				-30	3.80	-5.393	-0.0064	-2.5 to 2.5	Pass
				-20	3.80	-5.980	-0.0070	-2.5 to 2.5	Pass
				-10	3.80	-9.270	-0.0109	-2.5 to 2.5	Pass
				0	3.80	-11.873	-0.0140	-2.5 to 2.5	Pass
				10	3.80	-7.668	-0.0090	-2.5 to 2.5	Pass
				30	3.80	-6.080	-0.0072	-2.5 to 2.5	Pass
				40	3.80	-4.921	-0.0058	-2.5 to 2.5	Pass
				50	3.80	-11.702	-0.0138	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.23	-1.645	-0.0020	-2.5 to 2.5	Pass
					3.80	-4.864	-0.0059	-2.5 to 2.5	Pass
					4.37	-7.939	-0.0096	-2.5 to 2.5	Pass
				-30	3.80	-6.194	-0.0075	-2.5 to 2.5	Pass
				-20	3.80	-5.822	-0.0071	-2.5 to 2.5	Pass
				-10	3.80	-1.073	-0.0013	-2.5 to 2.5	Pass
				0	3.80	-10.428	-0.0126	-2.5 to 2.5	Pass
				10	3.80	-9.184	-0.0111	-2.5 to 2.5	Pass
				30	3.80	-5.379	-0.0065	-2.5 to 2.5	Pass
				40	3.80	-2.875	-0.0035	-2.5 to 2.5	Pass
				50	3.80	-2.546	-0.0031	-2.5 to 2.5	Pass
	836.5	6	0	20	3.23	-8.326	-0.0100	-2.5 to 2.5	Pass
					3.80	-6.065	-0.0073	-2.5 to 2.5	Pass
					4.37	-4.120	-0.0049	-2.5 to 2.5	Pass
				-30	3.80	-5.937	-0.0071	-2.5 to 2.5	Pass
				-20	3.80	-3.819	-0.0046	-2.5 to 2.5	Pass
				-10	3.80	-7.253	-0.0087	-2.5 to 2.5	Pass

				0	3.80	-6.194	-0.0074	-2.5 to 2.5	Pass
				10	3.80	-10.428	-0.0125	-2.5 to 2.5	Pass
				30	3.80	1.230	0.0015	-2.5 to 2.5	Pass
				40	3.80	-2.589	-0.0031	-2.5 to 2.5	Pass
				50	3.80	-4.091	-0.0049	-2.5 to 2.5	Pass
	848.3	6	0	20	3.23	-5.922	-0.0070	-2.5 to 2.5	Pass
					3.80	-8.297	-0.0098	-2.5 to 2.5	Pass
					4.37	-11.058	-0.0130	-2.5 to 2.5	Pass
				-30	3.80	-7.639	-0.0090	-2.5 to 2.5	Pass
				-20	3.80	-8.554	-0.0101	-2.5 to 2.5	Pass
				-10	3.80	-10.843	-0.0128	-2.5 to 2.5	Pass
				0	3.80	-2.947	-0.0035	-2.5 to 2.5	Pass
				10	3.80	-5.651	-0.0067	-2.5 to 2.5	Pass
				30	3.80	-11.201	-0.0132	-2.5 to 2.5	Pass
				40	3.80	-1.988	-0.0023	-2.5 to 2.5	Pass
				50	3.80	-3.204	-0.0038	-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	3.23	-9.327	-0.0113	-2.5 to 2.5	Pass
					3.80	-6.995	-0.0085	-2.5 to 2.5	Pass
					4.37	-6.852	-0.0083	-2.5 to 2.5	Pass
				-30	3.80	-9.813	-0.0119	-2.5 to 2.5	Pass
				-20	3.80	0.615	0.0007	-2.5 to 2.5	Pass
				-10	3.80	-6.723	-0.0081	-2.5 to 2.5	Pass
				0	3.80	-5.622	-0.0068	-2.5 to 2.5	Pass
				10	3.80	-5.665	-0.0069	-2.5 to 2.5	Pass
				30	3.80	-1.001	-0.0012	-2.5 to 2.5	Pass
				40	3.80	-2.789	-0.0034	-2.5 to 2.5	Pass
				50	3.80	-3.633	-0.0044	-2.5 to 2.5	Pass
	836.5	15	0	20	3.23	-7.038	-0.0084	-2.5 to 2.5	Pass
					3.80	-3.734	-0.0045	-2.5 to 2.5	Pass
					4.37	-5.207	-0.0062	-2.5 to 2.5	Pass
				-30	3.80	-5.550	-0.0066	-2.5 to 2.5	Pass
				-20	3.80	-2.761	-0.0033	-2.5 to 2.5	Pass
				-10	3.80	-4.134	-0.0049	-2.5 to 2.5	Pass
				0	3.80	-1.702	-0.0020	-2.5 to 2.5	Pass
				10	3.80	-2.446	-0.0029	-2.5 to 2.5	Pass
				30	3.80	-7.038	-0.0084	-2.5 to 2.5	Pass
				40	3.80	-6.223	-0.0074	-2.5 to 2.5	Pass
				50	3.80	-3.104	-0.0037	-2.5 to 2.5	Pass
	847.5	15	0	20	3.23	-9.370	-0.0111	-2.5 to 2.5	Pass
					3.80	0.587	0.0007	-2.5 to 2.5	Pass
					4.37	-0.172	-0.0002	-2.5 to 2.5	Pass
				-30	3.80	-7.052	-0.0083	-2.5 to 2.5	Pass
				-20	3.80	-10.057	-0.0119	-2.5 to 2.5	Pass
				-10	3.80	-12.560	-0.0148	-2.5 to 2.5	Pass
				0	3.80	-3.347	-0.0039	-2.5 to 2.5	Pass
				10	3.80	-4.363	-0.0051	-2.5 to 2.5	Pass
				30	3.80	-4.807	-0.0057	-2.5 to 2.5	Pass
				40	3.80	-6.623	-0.0078	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.23	-5.422	-0.0066	-2.5 to 2.5	Pass
					3.80	-6.037	-0.0073	-2.5 to 2.5	Pass
					4.37	-9.012	-0.0109	-2.5 to 2.5	Pass
				-30	3.80	-3.018	-0.0037	-2.5 to 2.5	Pass
				-20	3.80	-4.978	-0.0060	-2.5 to 2.5	Pass
				-10	3.80	-10.014	-0.0121	-2.5 to 2.5	Pass
				0	3.80	-3.047	-0.0037	-2.5 to 2.5	Pass
				10	3.80	-5.994	-0.0073	-2.5 to 2.5	Pass
				30	3.80	-6.266	-0.0076	-2.5 to 2.5	Pass
				40	3.80	-6.666	-0.0081	-2.5 to 2.5	Pass
				50	3.80	-6.866	-0.0083	-2.5 to 2.5	Pass
	836.5	15	0	20	3.23	-8.826	-0.0106	-2.5 to 2.5	Pass
					3.80	-5.350	-0.0064	-2.5 to 2.5	Pass
					4.37	-0.243	-0.0003	-2.5 to 2.5	Pass
				-30	3.80	2.117	0.0025	-2.5 to 2.5	Pass
				-20	3.80	-5.107	-0.0061	-2.5 to 2.5	Pass
				-10	3.80	-8.283	-0.0099	-2.5 to 2.5	Pass
				0	3.80	-8.483	-0.0101	-2.5 to 2.5	Pass
				10	3.80	0.501	0.0006	-2.5 to 2.5	Pass
				30	3.80	-9.627	-0.0115	-2.5 to 2.5	Pass
				40	3.80	-6.394	-0.0076	-2.5 to 2.5	Pass
				50	3.80	-1.974	-0.0024	-2.5 to 2.5	Pass

	847.5	15	0	20	3.23	-1.717	-0.0020	-2.5 to 2.5	Pass
					3.80	-2.332	-0.0028	-2.5 to 2.5	Pass
					4.37	-0.815	-0.0010	-2.5 to 2.5	Pass
				-30	3.80	-9.985	-0.0118	-2.5 to 2.5	Pass
				-20	3.80	-2.031	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-6.781	-0.0080	-2.5 to 2.5	Pass
				0	3.80	-0.844	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-1.631	-0.0019	-2.5 to 2.5	Pass
				30	3.80	-9.856	-0.0116	-2.5 to 2.5	Pass
				40	3.80	-7.768	-0.0092	-2.5 to 2.5	Pass
				50	3.80	-4.606	-0.0054	-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	3.23	-5.636	-0.0068	-2.5 to 2.5	Pass
					3.80	-6.266	-0.0076	-2.5 to 2.5	Pass
					4.37	-7.153	-0.0087	-2.5 to 2.5	Pass
				-30	3.80	-7.968	-0.0096	-2.5 to 2.5	Pass
				-20	3.80	-8.783	-0.0106	-2.5 to 2.5	Pass
				-10	3.80	-7.353	-0.0089	-2.5 to 2.5	Pass
				0	3.80	-7.582	-0.0092	-2.5 to 2.5	Pass
				10	3.80	-7.052	-0.0085	-2.5 to 2.5	Pass
				30	3.80	-5.393	-0.0065	-2.5 to 2.5	Pass
				40	3.80	-7.024	-0.0085	-2.5 to 2.5	Pass
				50	3.80	-8.068	-0.0098	-2.5 to 2.5	Pass
	836.5	25	0	20	3.23	-4.721	-0.0056	-2.5 to 2.5	Pass
					3.80	-1.416	-0.0017	-2.5 to 2.5	Pass
					4.37	-4.435	-0.0053	-2.5 to 2.5	Pass
				-30	3.80	-2.890	-0.0035	-2.5 to 2.5	Pass
				-20	3.80	-4.478	-0.0054	-2.5 to 2.5	Pass
				-10	3.80	-4.249	-0.0051	-2.5 to 2.5	Pass
				0	3.80	-8.898	-0.0106	-2.5 to 2.5	Pass
				10	3.80	-8.283	-0.0099	-2.5 to 2.5	Pass
				30	3.80	-5.493	-0.0066	-2.5 to 2.5	Pass
				40	3.80	-5.364	-0.0064	-2.5 to 2.5	Pass
				50	3.80	-3.204	-0.0038	-2.5 to 2.5	Pass
	846.5	25	0	20	3.23	-3.848	-0.0045	-2.5 to 2.5	Pass
					3.80	-10.629	-0.0126	-2.5 to 2.5	Pass
					4.37	-10.028	-0.0118	-2.5 to 2.5	Pass
				-30	3.80	-6.409	-0.0076	-2.5 to 2.5	Pass
				-20	3.80	-9.112	-0.0108	-2.5 to 2.5	Pass
				-10	3.80	-6.394	-0.0076	-2.5 to 2.5	Pass
				0	3.80	-1.702	-0.0020	-2.5 to 2.5	Pass
				10	3.80	-3.562	-0.0042	-2.5 to 2.5	Pass
				30	3.80	-8.183	-0.0097	-2.5 to 2.5	Pass
				40	3.80	-3.233	-0.0038	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.23	-8.469	-0.0102	-2.5 to 2.5	Pass
					3.80	-6.137	-0.0074	-2.5 to 2.5	Pass
					4.37	-6.866	-0.0083	-2.5 to 2.5	Pass
				-30	3.80	-4.435	-0.0054	-2.5 to 2.5	Pass
				-20	3.80	-5.250	-0.0064	-2.5 to 2.5	Pass
				-10	3.80	-8.841	-0.0107	-2.5 to 2.5	Pass
				0	3.80	-11.659	-0.0141	-2.5 to 2.5	Pass
				10	3.80	-3.490	-0.0042	-2.5 to 2.5	Pass
				30	3.80	-7.524	-0.0091	-2.5 to 2.5	Pass
				40	3.80	-10.157	-0.0123	-2.5 to 2.5	Pass
				50	3.80	-6.094	-0.0074	-2.5 to 2.5	Pass
	836.5	25	0	20	3.23	-2.232	-0.0027	-2.5 to 2.5	Pass
					3.80	-2.589	-0.0031	-2.5 to 2.5	Pass
					4.37	-7.768	-0.0093	-2.5 to 2.5	Pass
				-30	3.80	-2.303	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-6.380	-0.0076	-2.5 to 2.5	Pass
				-10	3.80	-3.233	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-5.021	-0.0060	-2.5 to 2.5	Pass
				10	3.80	-6.638	-0.0079	-2.5 to 2.5	Pass
				30	3.80	-2.546	-0.0030	-2.5 to 2.5	Pass
				40	3.80	-1.631	-0.0019	-2.5 to 2.5	Pass
				50	3.80	-4.120	-0.0049	-2.5 to 2.5	Pass

	846.5	25	0	20	3.23	-4.435	-0.0052	-2.5 to 2.5	Pass
					3.80	-6.781	-0.0080	-2.5 to 2.5	Pass
					4.37	-1.531	-0.0018	-2.5 to 2.5	Pass
				-30	3.80	-3.805	-0.0045	-2.5 to 2.5	Pass
				-20	3.80	-0.601	-0.0007	-2.5 to 2.5	Pass
				-10	3.80	-4.005	-0.0047	-2.5 to 2.5	Pass
				0	3.80	-3.147	-0.0037	-2.5 to 2.5	Pass
				10	3.80	-9.584	-0.0113	-2.5 to 2.5	Pass
				30	3.80	-2.961	-0.0035	-2.5 to 2.5	Pass
				40	3.80	-6.194	-0.0073	-2.5 to 2.5	Pass
				50	3.80	-4.191	-0.0050	-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	3.23	-4.978	-0.0060	-2.5 to 2.5	Pass
					3.80	-2.604	-0.0031	-2.5 to 2.5	Pass
					4.37	-4.578	-0.0055	-2.5 to 2.5	Pass
				-30	3.80	-4.478	-0.0054	-2.5 to 2.5	Pass
				-20	3.80	-6.480	-0.0078	-2.5 to 2.5	Pass
				-10	3.80	-8.426	-0.0102	-2.5 to 2.5	Pass
				0	3.80	-2.861	-0.0035	-2.5 to 2.5	Pass
				10	3.80	-5.836	-0.0070	-2.5 to 2.5	Pass
				30	3.80	-5.050	-0.0061	-2.5 to 2.5	Pass
				40	3.80	-7.696	-0.0093	-2.5 to 2.5	Pass
				50	3.80	-7.153	-0.0086	-2.5 to 2.5	Pass
	836.5	50	0	20	3.23	-8.497	-0.0102	-2.5 to 2.5	Pass
					3.80	-8.326	-0.0100	-2.5 to 2.5	Pass
					4.37	-9.656	-0.0115	-2.5 to 2.5	Pass
				-30	3.80	-4.921	-0.0059	-2.5 to 2.5	Pass
				-20	3.80	-8.025	-0.0096	-2.5 to 2.5	Pass
				-10	3.80	-5.565	-0.0067	-2.5 to 2.5	Pass
				0	3.80	-6.194	-0.0074	-2.5 to 2.5	Pass
				10	3.80	-5.894	-0.0070	-2.5 to 2.5	Pass
				30	3.80	-6.609	-0.0079	-2.5 to 2.5	Pass
				40	3.80	-8.626	-0.0103	-2.5 to 2.5	Pass
				50	3.80	-8.497	-0.0102	-2.5 to 2.5	Pass
	844	50	0	20	3.23	-7.625	-0.0090	-2.5 to 2.5	Pass
					3.80	-6.495	-0.0077	-2.5 to 2.5	Pass
					4.37	-5.651	-0.0067	-2.5 to 2.5	Pass
				-30	3.80	-2.503	-0.0030	-2.5 to 2.5	Pass
				-20	3.80	-7.811	-0.0093	-2.5 to 2.5	Pass
				-10	3.80	-9.885	-0.0117	-2.5 to 2.5	Pass
				0	3.80	-5.350	-0.0063	-2.5 to 2.5	Pass
				10	3.80	-6.852	-0.0081	-2.5 to 2.5	Pass
				30	3.80	-4.005	-0.0047	-2.5 to 2.5	Pass
				40	3.80	-3.805	-0.0045	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.23	-6.666	-0.0080	-2.5 to 2.5	Pass
					3.80	-9.041	-0.0109	-2.5 to 2.5	Pass
					4.37	-7.553	-0.0091	-2.5 to 2.5	Pass
				-30	3.80	-6.351	-0.0077	-2.5 to 2.5	Pass
				-20	3.80	-7.010	-0.0085	-2.5 to 2.5	Pass
				-10	3.80	-5.164	-0.0062	-2.5 to 2.5	Pass
				0	3.80	-6.337	-0.0076	-2.5 to 2.5	Pass
				10	3.80	-9.527	-0.0115	-2.5 to 2.5	Pass
				30	3.80	-6.981	-0.0084	-2.5 to 2.5	Pass
				40	3.80	-4.807	-0.0058	-2.5 to 2.5	Pass
				50	3.80	-8.669	-0.0105	-2.5 to 2.5	Pass
	836.5	50	0	20	3.23	-9.971	-0.0119	-2.5 to 2.5	Pass
					3.80	-6.237	-0.0075	-2.5 to 2.5	Pass
					4.37	-8.340	-0.0100	-2.5 to 2.5	Pass
				-30	3.80	-8.640	-0.0103	-2.5 to 2.5	Pass
				-20	3.80	-9.441	-0.0113	-2.5 to 2.5	Pass
				-10	3.80	-8.554	-0.0102	-2.5 to 2.5	Pass
				0	3.80	-5.236	-0.0063	-2.5 to 2.5	Pass
				10	3.80	-1.774	-0.0021	-2.5 to 2.5	Pass
				30	3.80	-6.466	-0.0077	-2.5 to 2.5	Pass
				40	3.80	-7.281	-0.0087	-2.5 to 2.5	Pass
				50	3.80	-6.237	-0.0075	-2.5 to 2.5	Pass

	844	50	0	20	3.23	-7.739	-0.0092	-2.5 to 2.5	Pass
					3.80	-4.392	-0.0052	-2.5 to 2.5	Pass
					4.37	-3.934	-0.0047	-2.5 to 2.5	Pass
				-30	3.80	-5.937	-0.0070	-2.5 to 2.5	Pass
				-20	3.80	-5.236	-0.0062	-2.5 to 2.5	Pass
				-10	3.80	-8.125	-0.0096	-2.5 to 2.5	Pass
				0	3.80	-3.762	-0.0045	-2.5 to 2.5	Pass
				10	3.80	-8.984	-0.0106	-2.5 to 2.5	Pass
				30	3.80	-4.792	-0.0057	-2.5 to 2.5	Pass
				40	3.80	-8.025	-0.0095	-2.5 to 2.5	Pass
				50	3.80	-9.942	-0.0118	-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

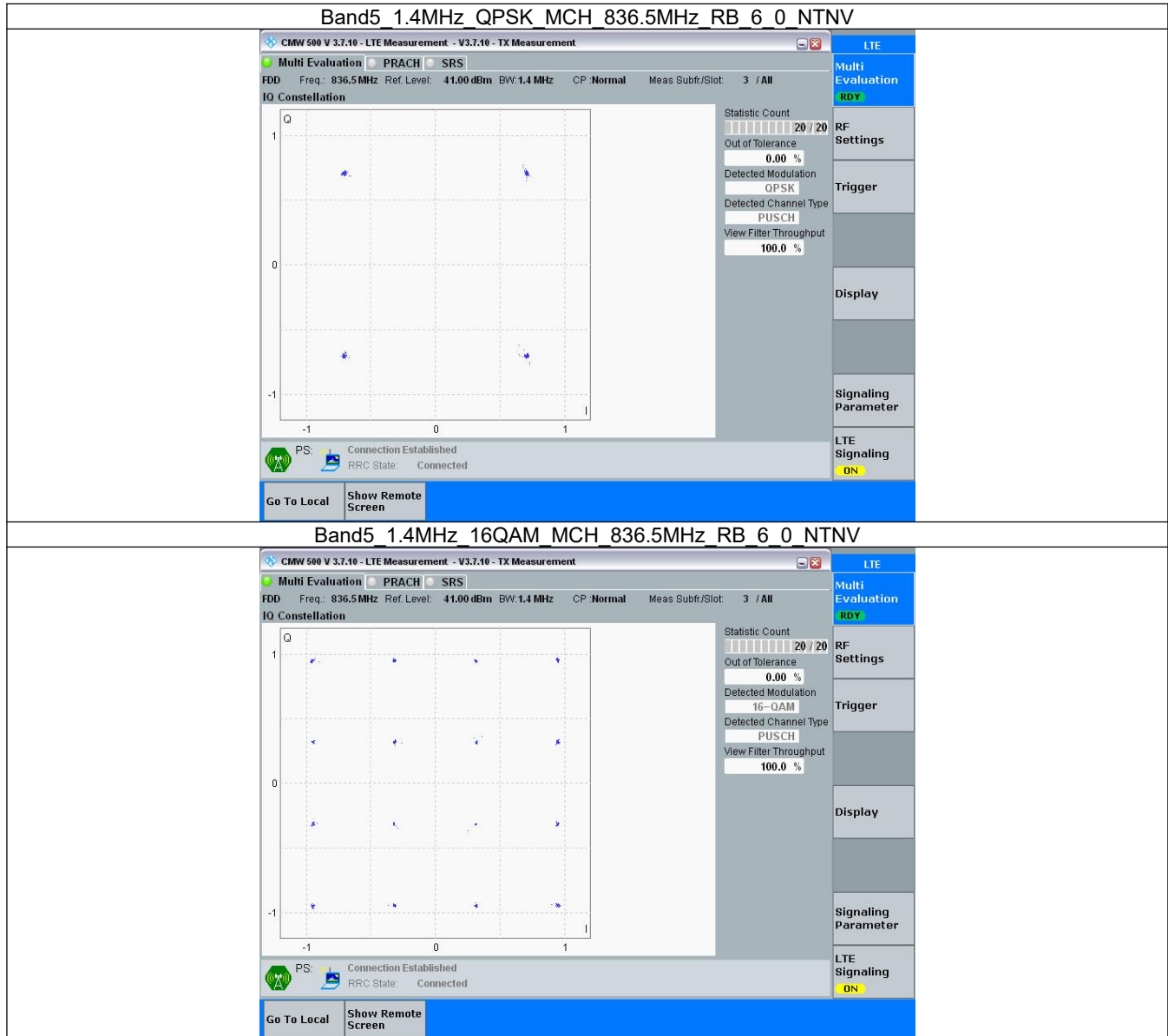
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

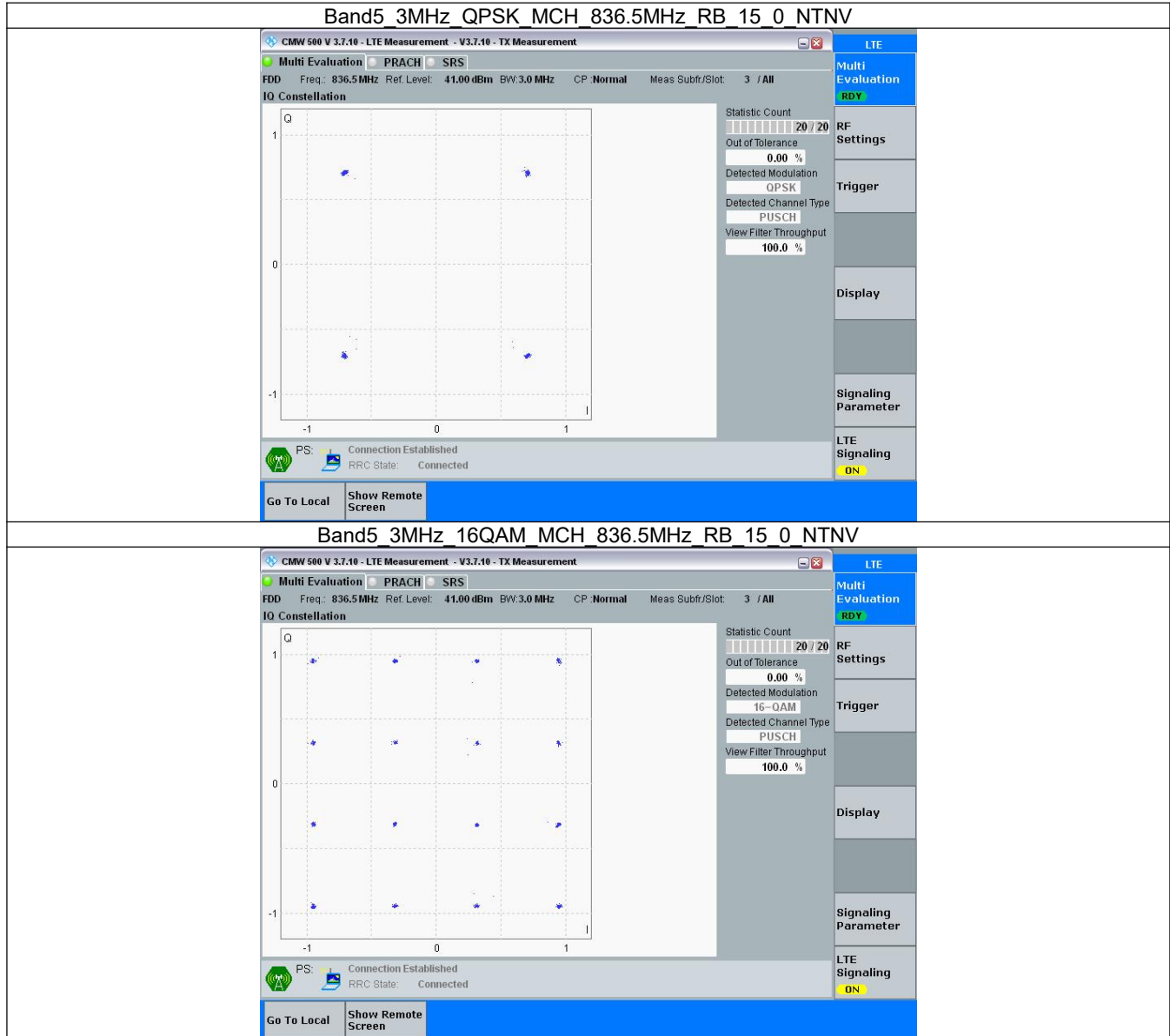
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

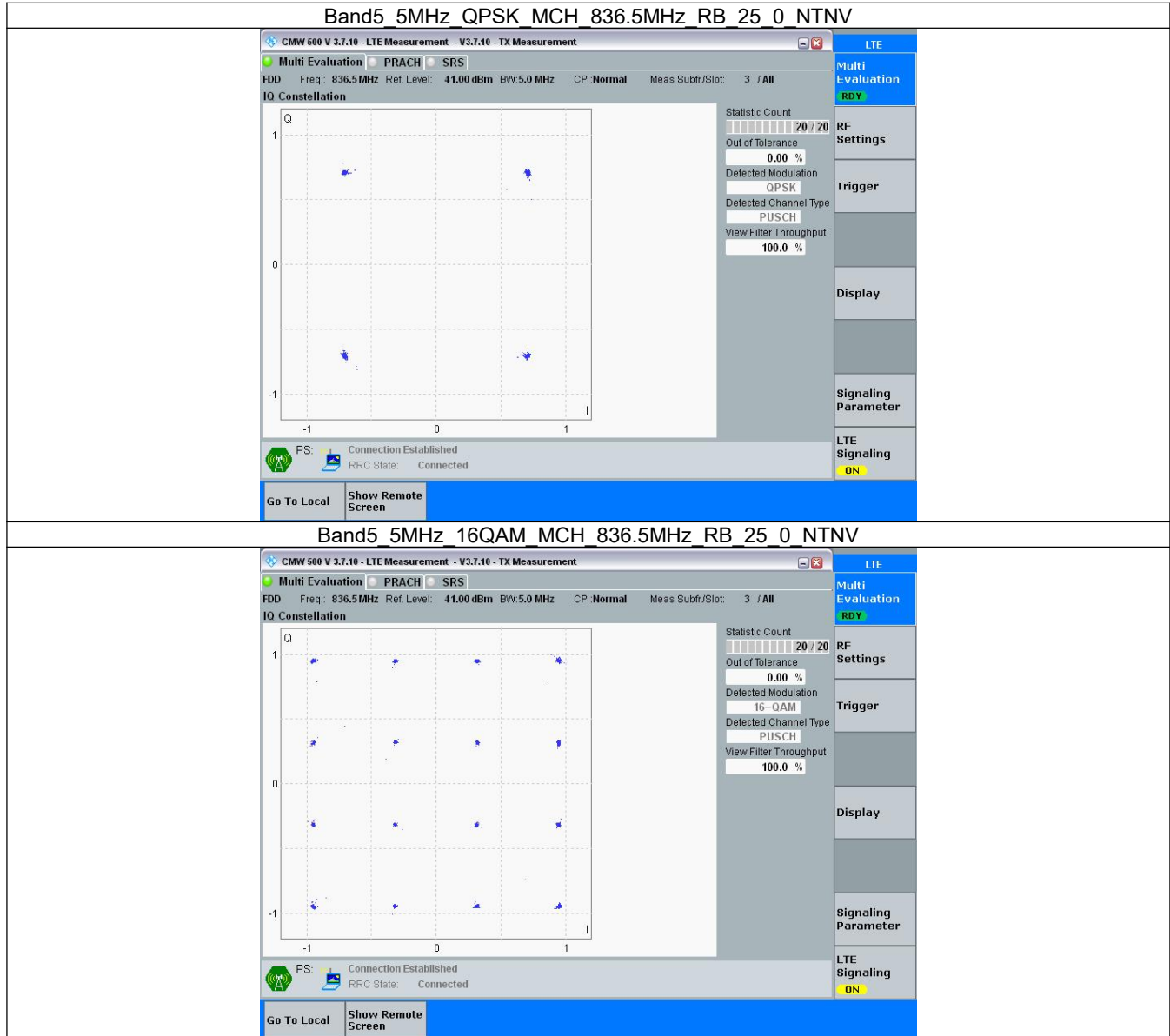
3.2.1 B5_1.4MHz



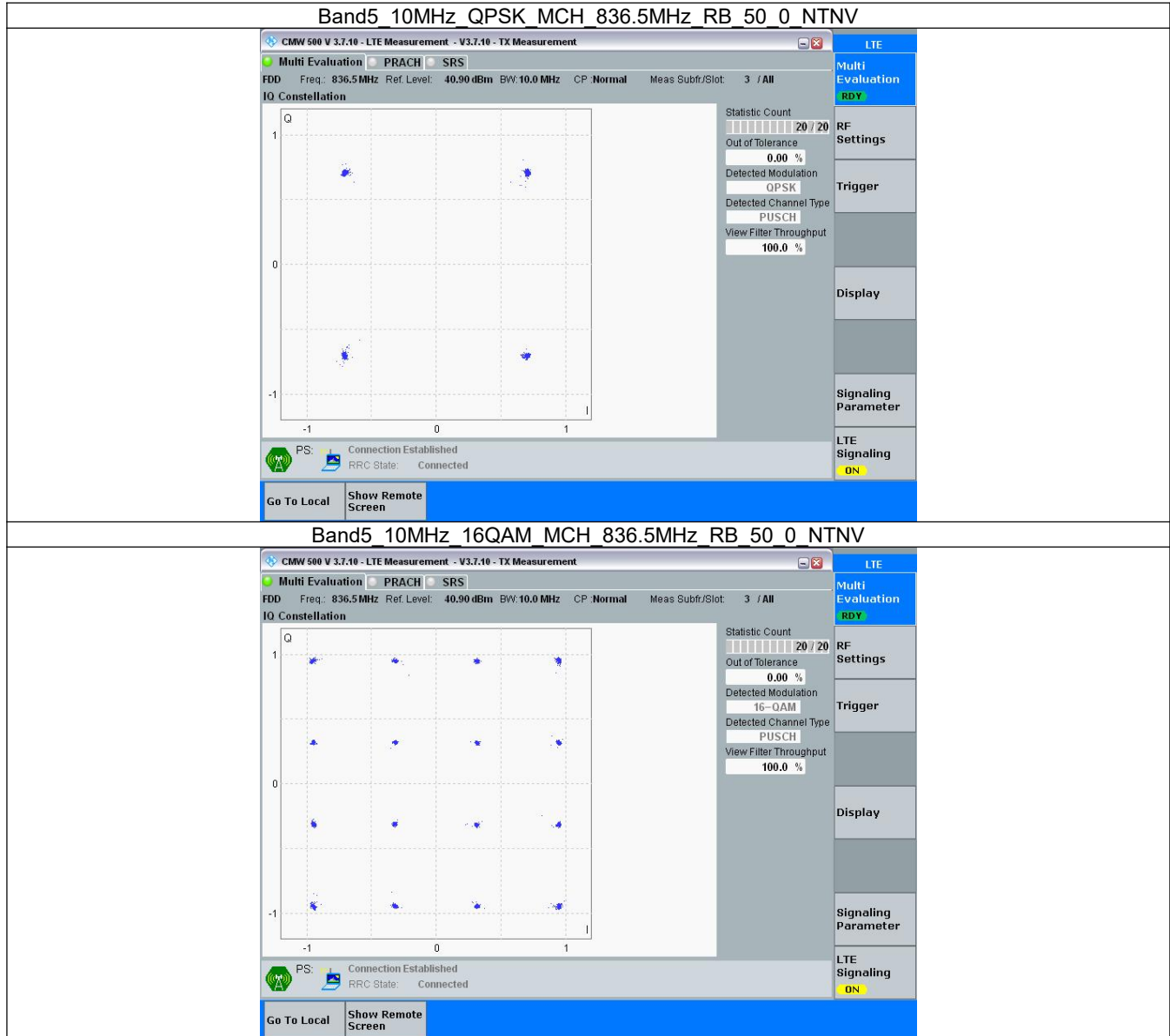
3.2.2 B5_3MHz



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	1.110	/	Pass
		836.5	6	0	1.124	/	Pass
		848.3	6	0	1.108	/	Pass
	16QAM	824.7	6	0	1.113	/	Pass
		836.5	6	0	1.106	/	Pass
		848.3	6	0	1.104	/	Pass
3	QPSK	825.5	15	0	2.728	/	Pass
		836.5	15	0	2.733	/	Pass
		847.5	15	0	2.722	/	Pass
	16QAM	825.5	15	0	2.719	/	Pass
		836.5	15	0	2.722	/	Pass
		847.5	15	0	2.723	/	Pass
5	QPSK	826.5	25	0	4.551	/	Pass
		836.5	25	0	4.524	/	Pass
		846.5	25	0	4.539	/	Pass
	16QAM	826.5	25	0	4.553	/	Pass
		836.5	25	0	4.522	/	Pass
		846.5	25	0	4.525	/	Pass
10	QPSK	829	50	0	9.063	/	Pass
		836.5	50	0	9.035	/	Pass
		844	50	0	9.102	/	Pass
	16QAM	829	50	0	9.076	/	Pass
		836.5	50	0	9.019	/	Pass
		844	50	0	9.064	/	Pass

4.1.2 Band5_XDB

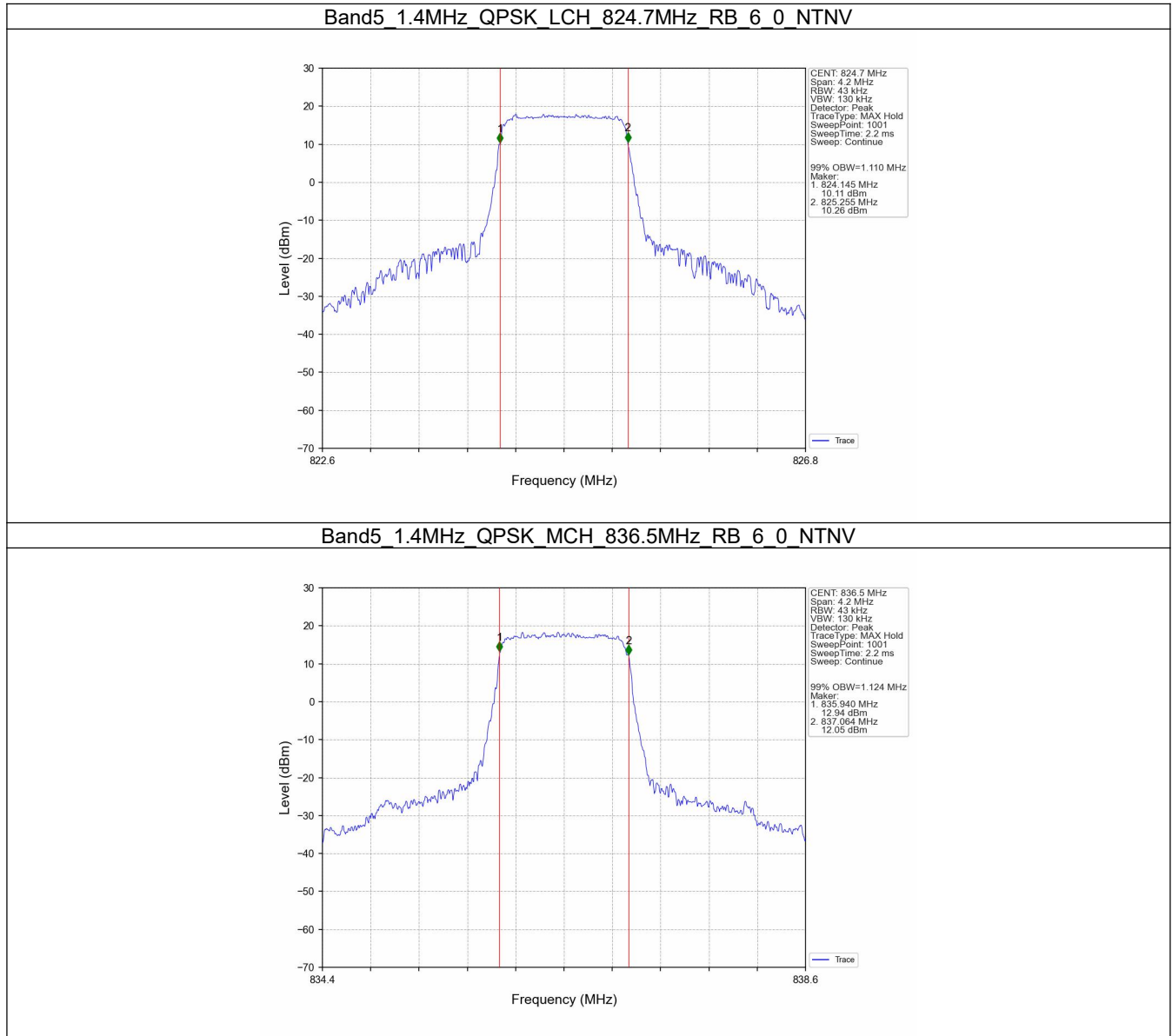
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.312	/	Pass
		836.5	6	0	1.314	/	Pass
		848.3	6	0	1.337	/	Pass
	16QAM	824.7	6	0	1.326	/	Pass
		836.5	6	0	1.332	/	Pass
		848.3	6	0	1.299	/	Pass
3	QPSK	825.5	15	0	2.999	/	Pass
		836.5	15	0	2.977	/	Pass
		847.5	15	0	2.986	/	Pass
	16QAM	825.5	15	0	3.003	/	Pass
		836.5	15	0	2.989	/	Pass
		847.5	15	0	2.982	/	Pass
5	QPSK	826.5	25	0	5.032	/	Pass
		836.5	25	0	5.032	/	Pass
		846.5	25	0	5.010	/	Pass
	16QAM	826.5	25	0	5.059	/	Pass
		836.5	25	0	5.018	/	Pass
		846.5	25	0	4.991	/	Pass
10	QPSK	829	50	0	9.981	/	Pass



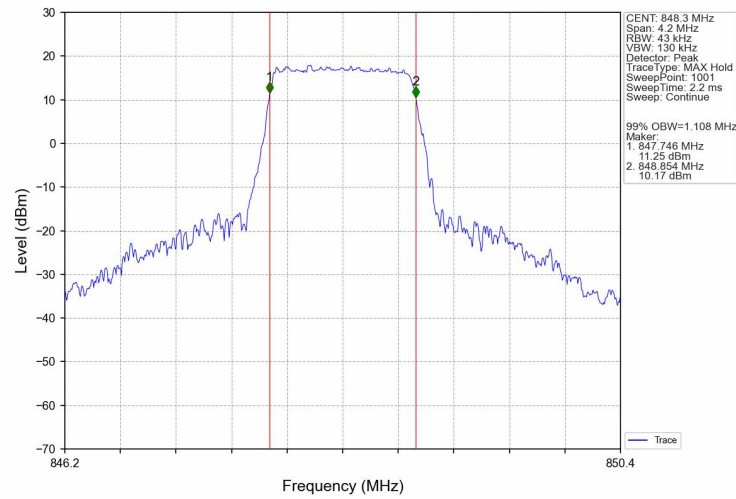
		836.5	50	0	9.883	/	Pass
		844	50	0	9.942	/	Pass
	16QAM	829	50	0	9.949	/	Pass
		836.5	50	0	9.813	/	Pass
		844	50	0	9.930	/	Pass

4.2 Test Graph

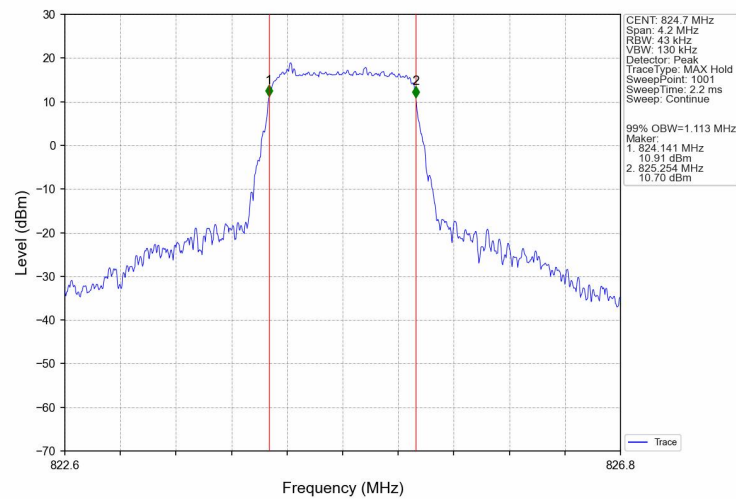
4.2.1 Band5_OBW



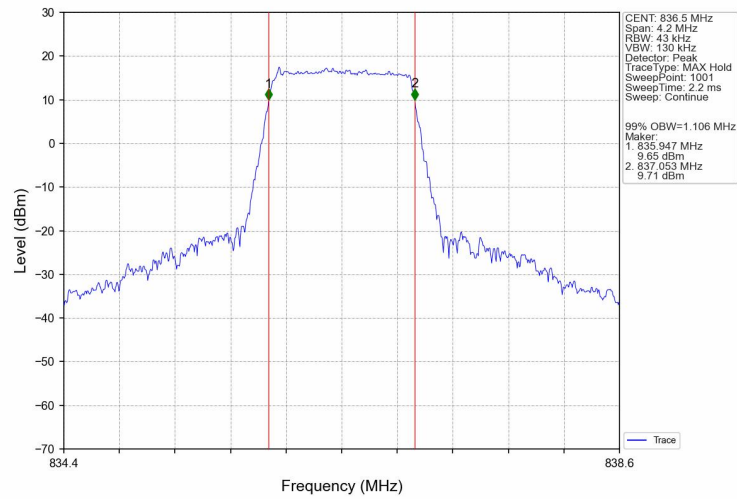
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



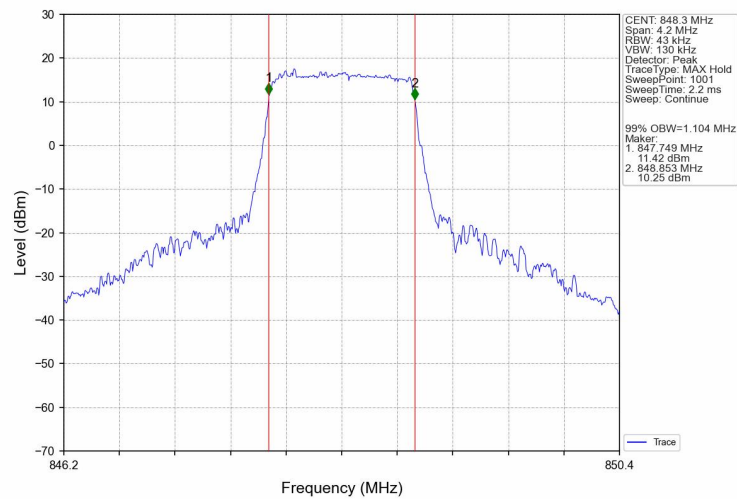
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



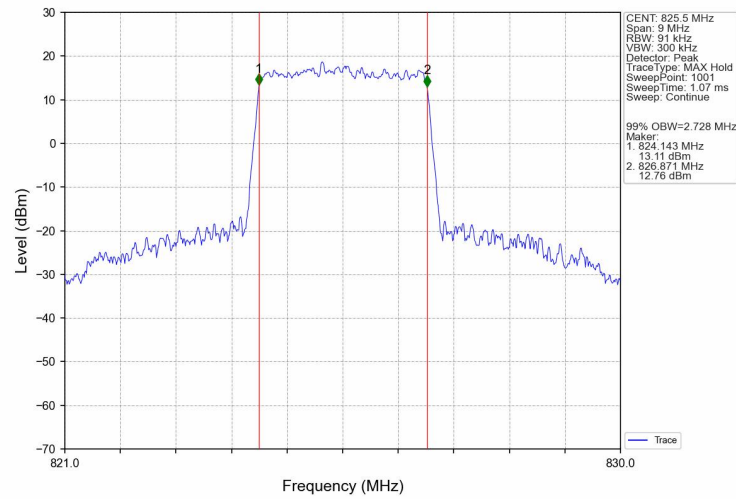
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



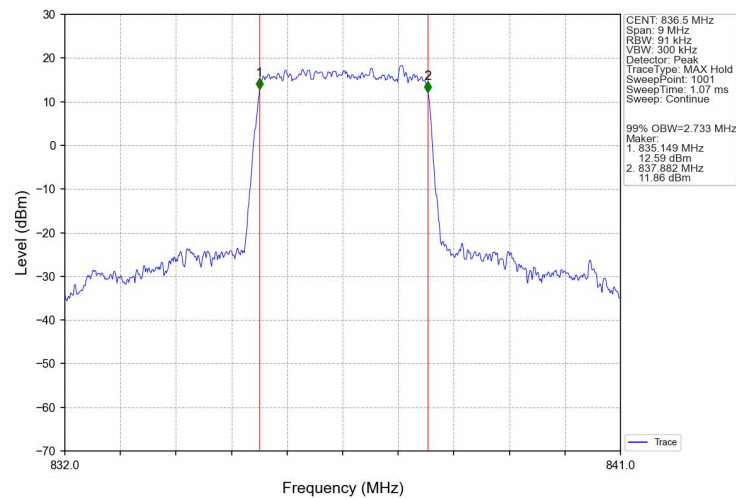
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



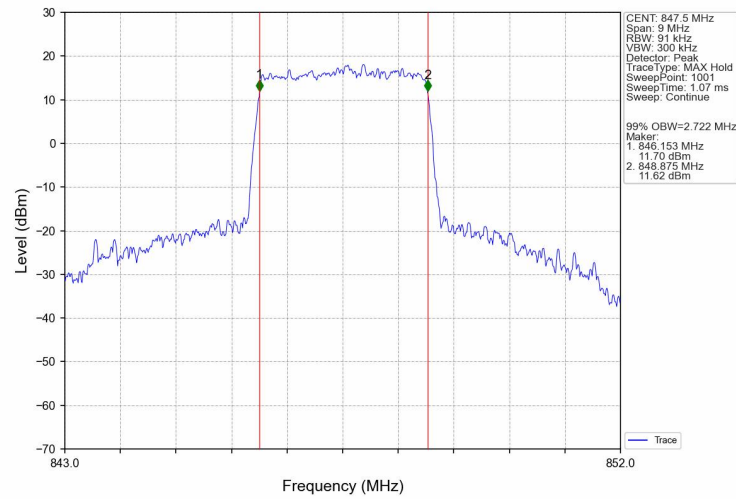
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



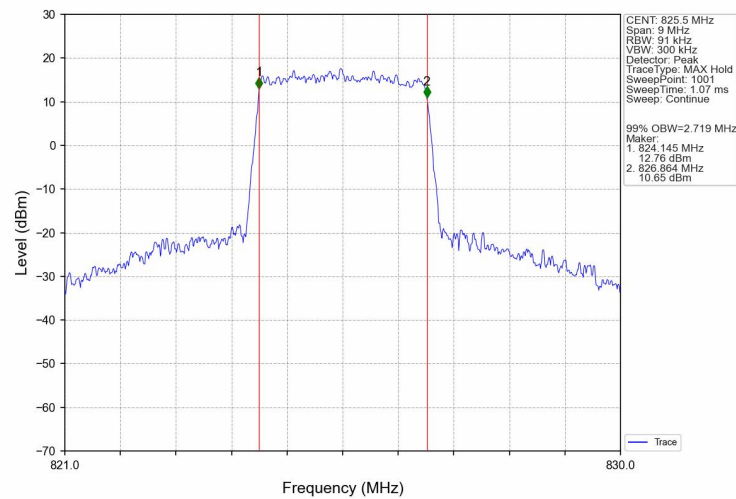
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



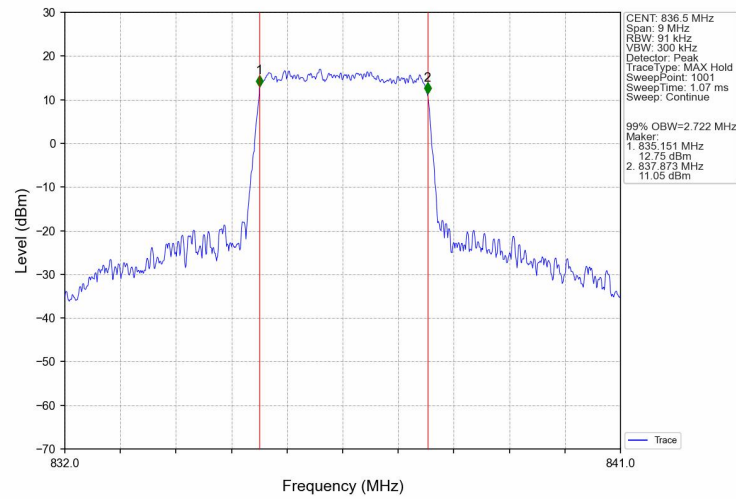
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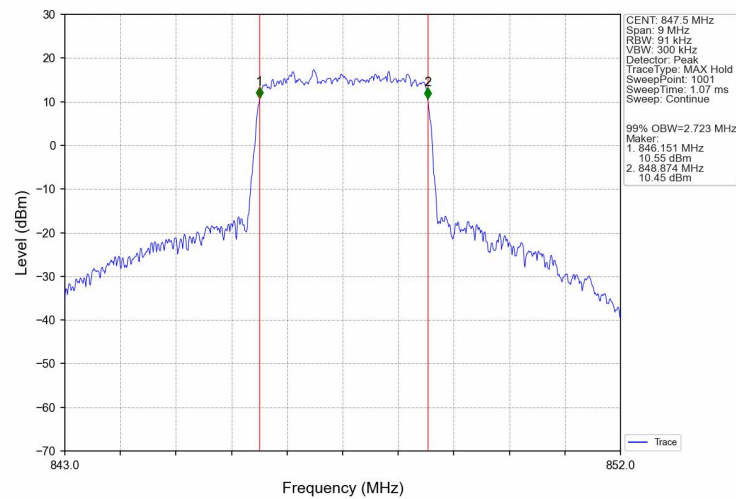
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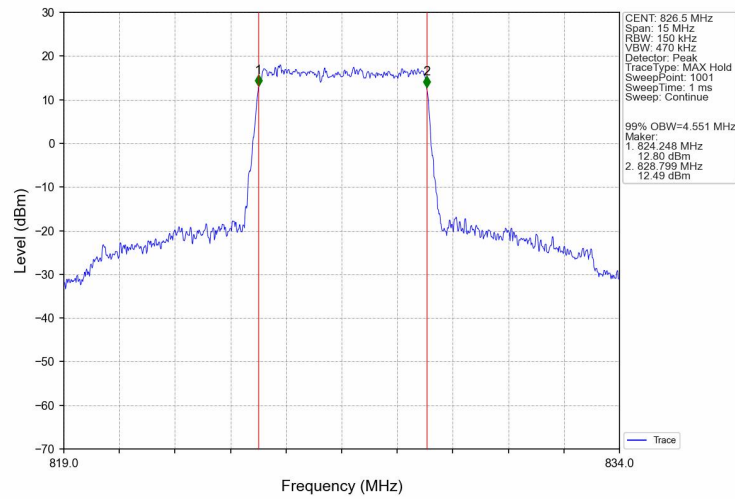
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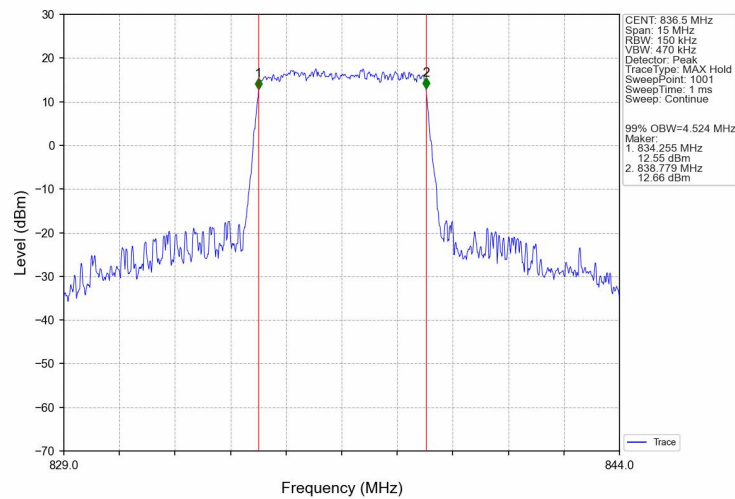
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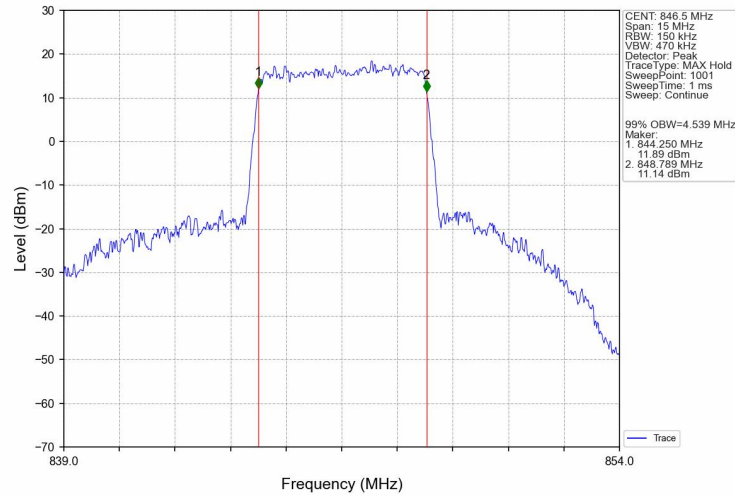
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



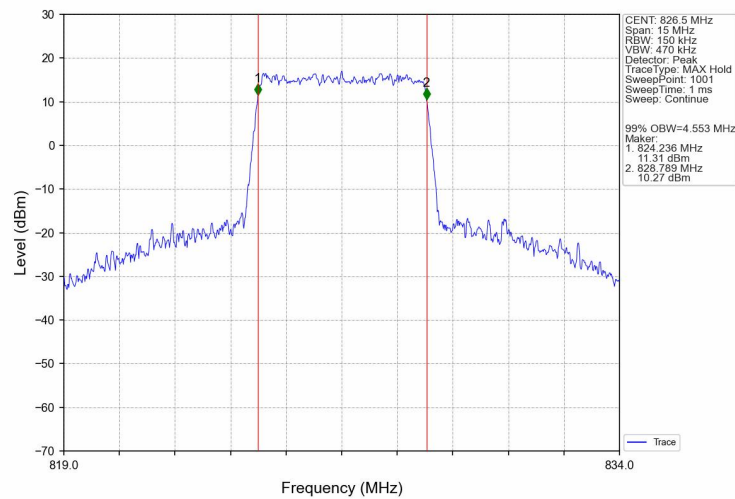
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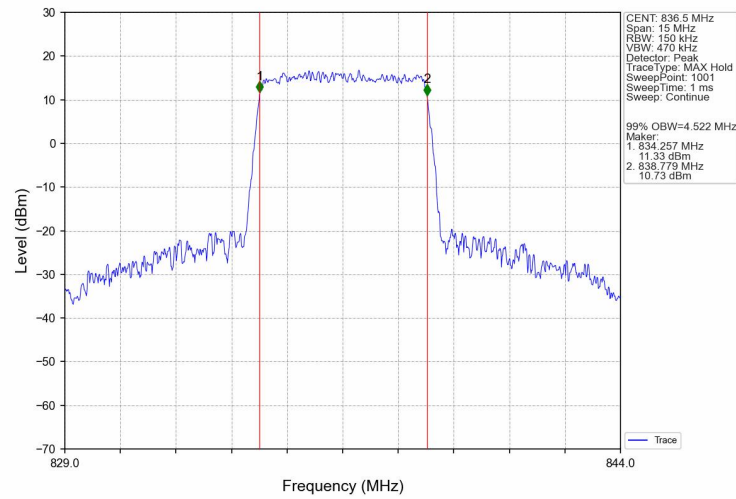
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



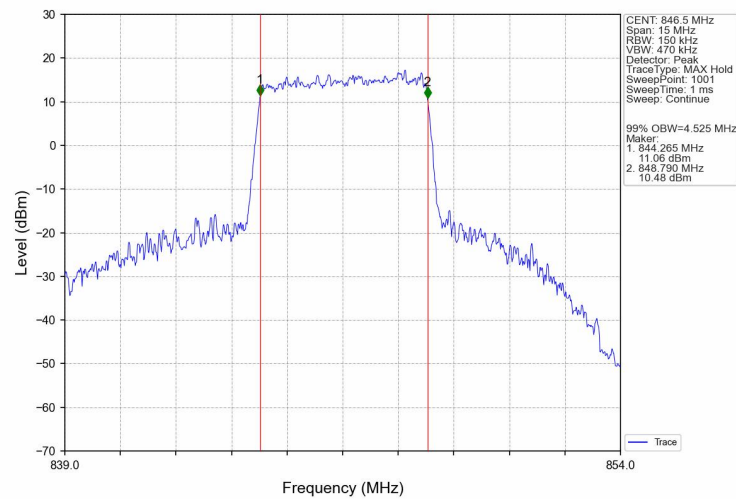
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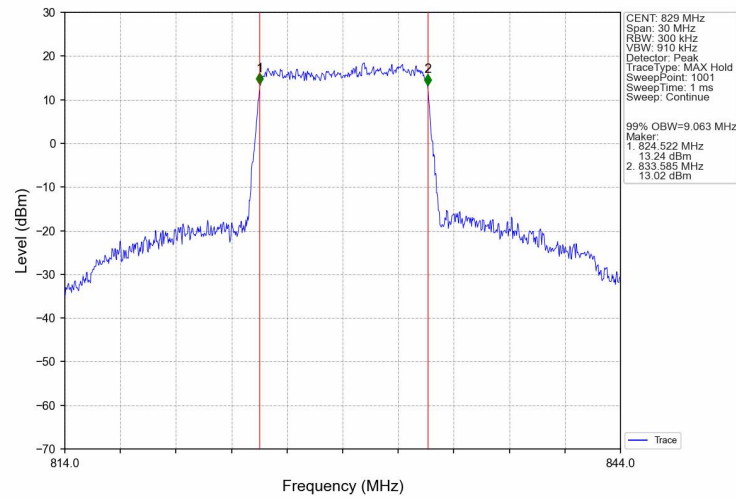
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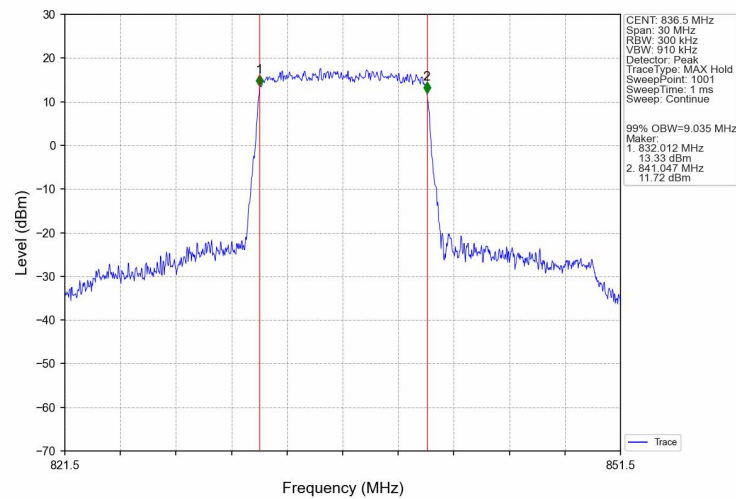
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



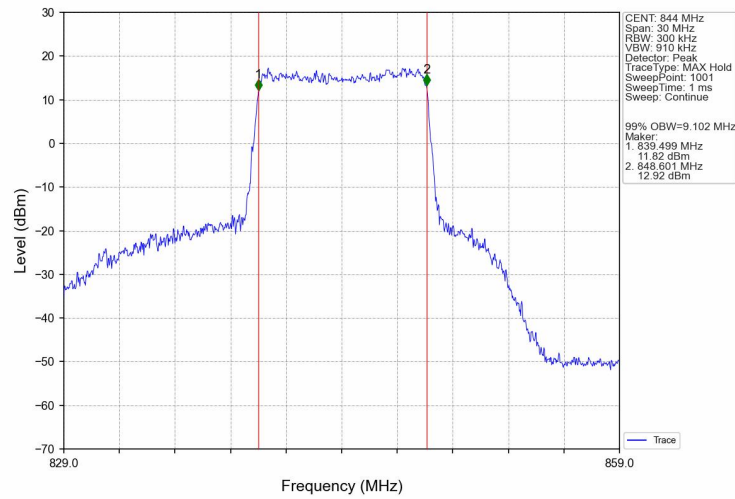
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



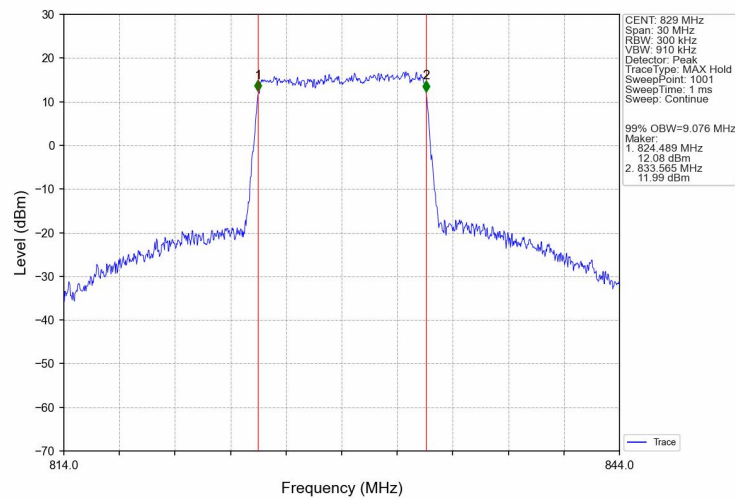
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



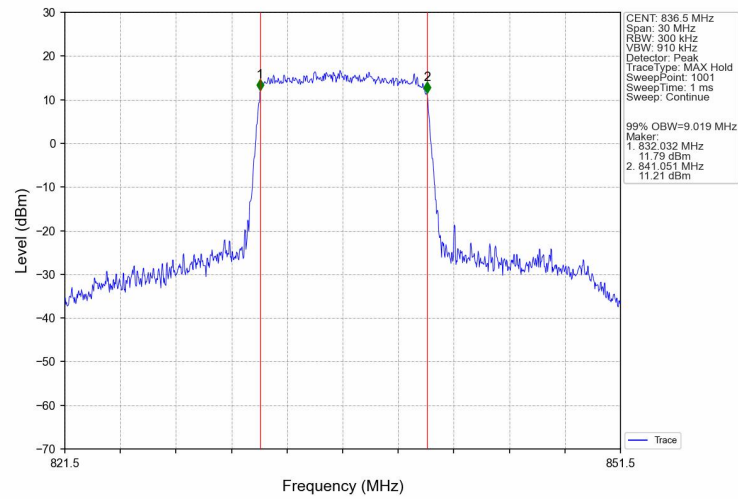
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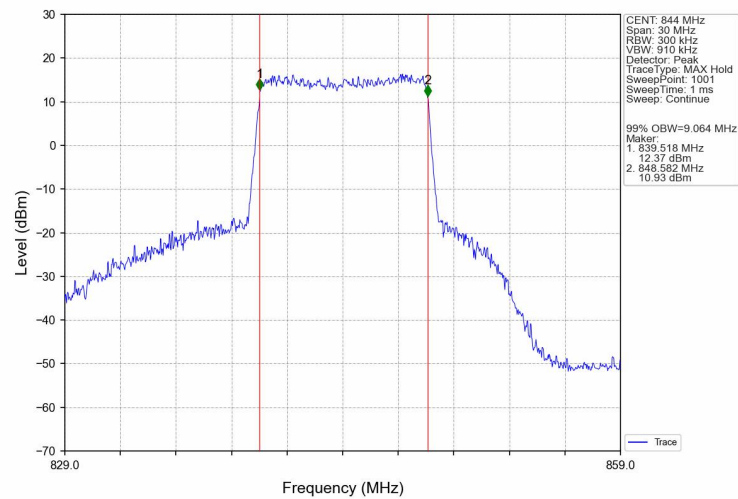
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

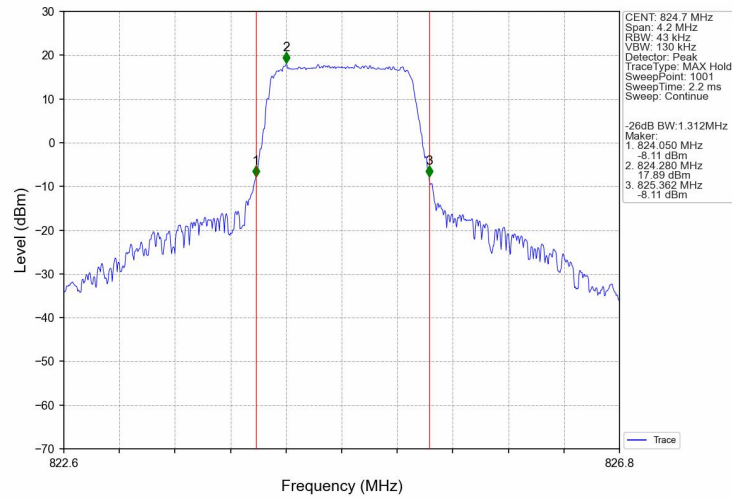


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

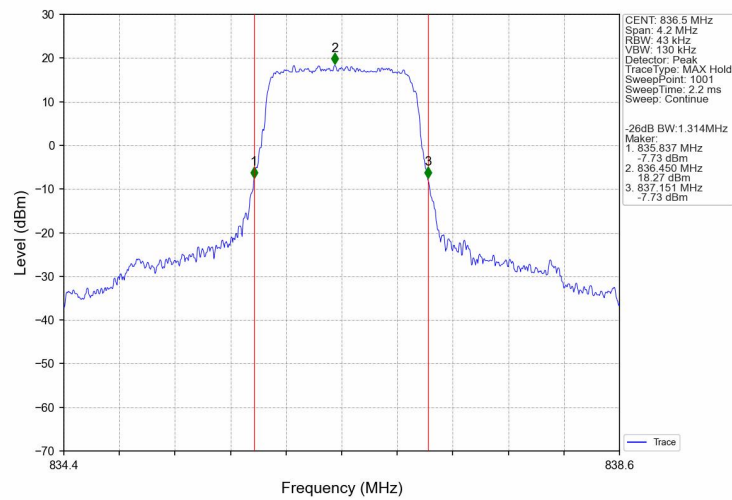


4.2.2 Band5_XDB

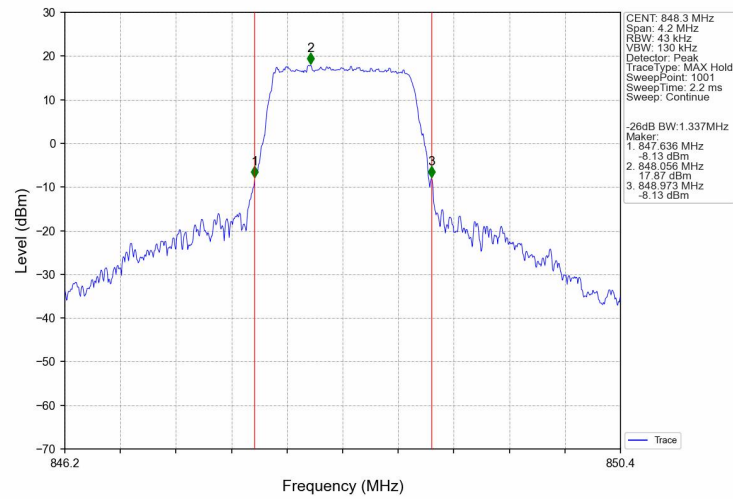
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



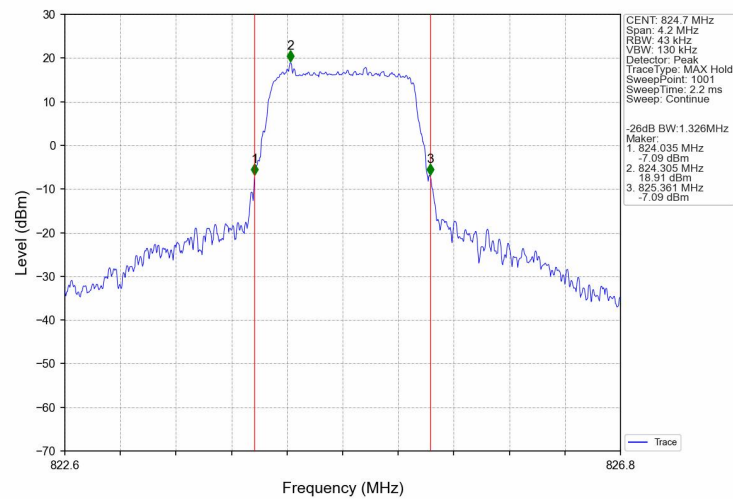
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



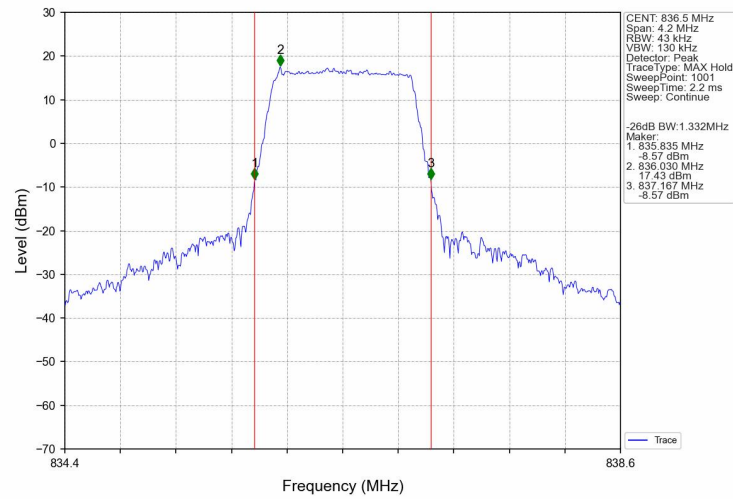
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTNV



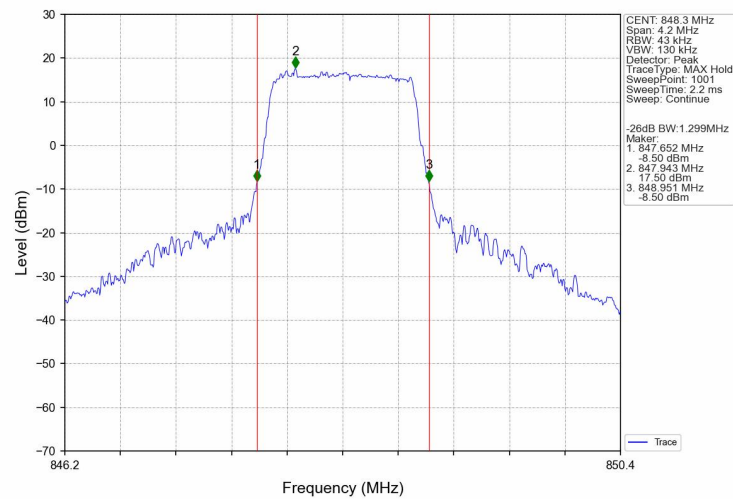
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTNV



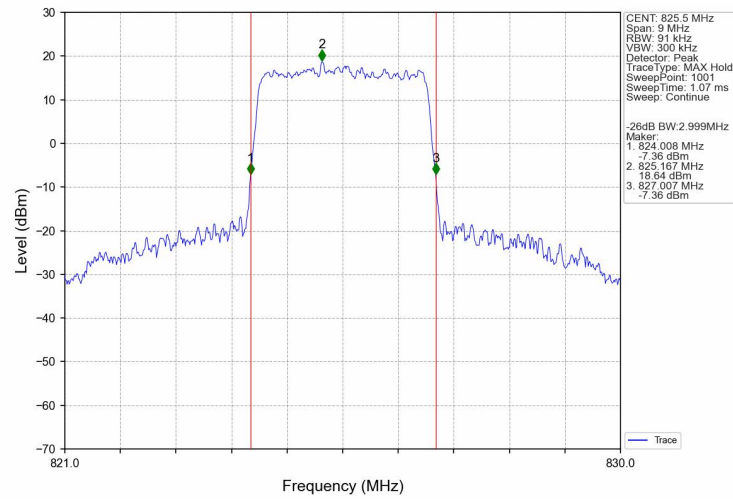
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



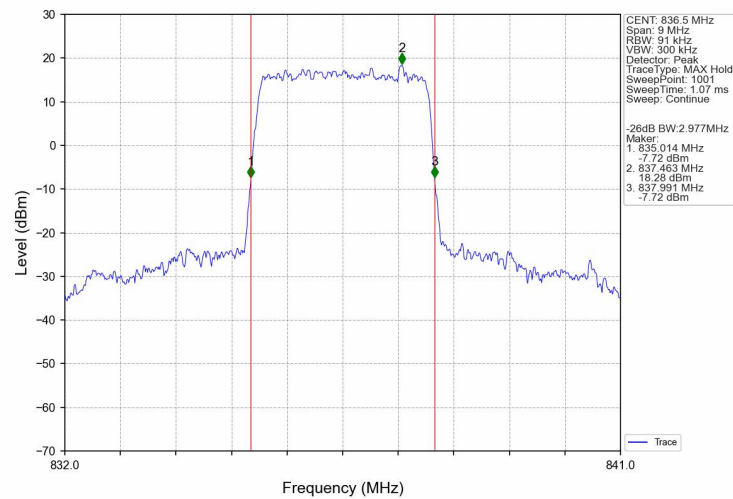
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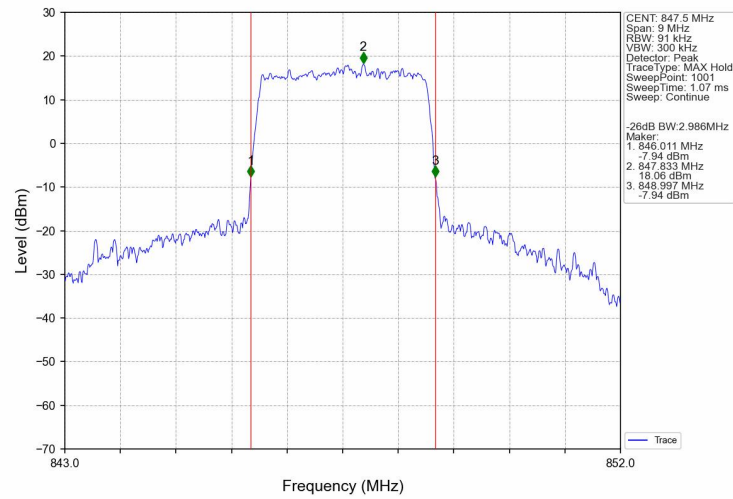
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



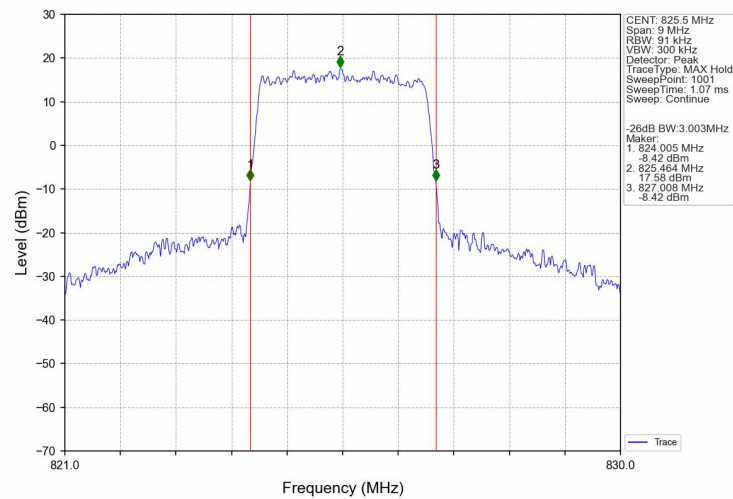
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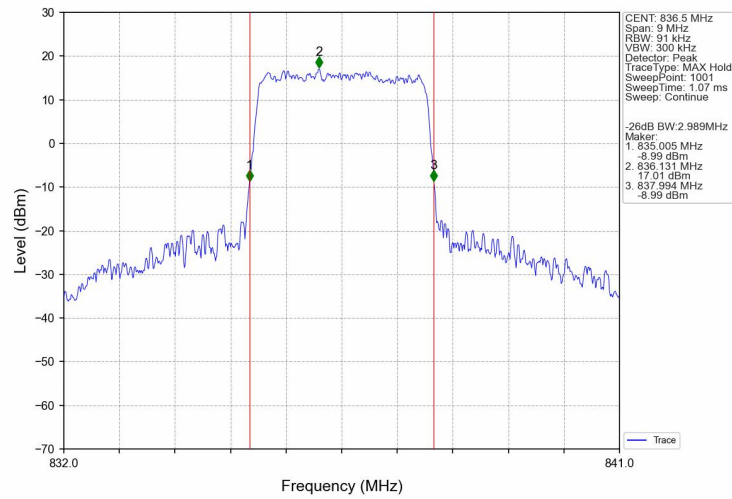
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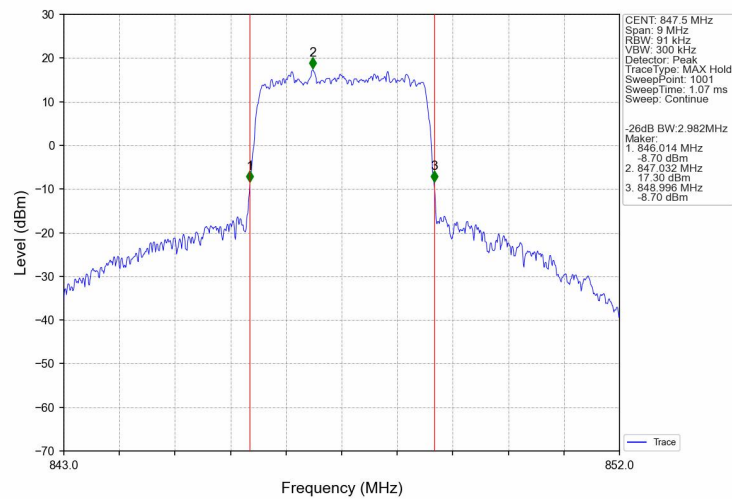
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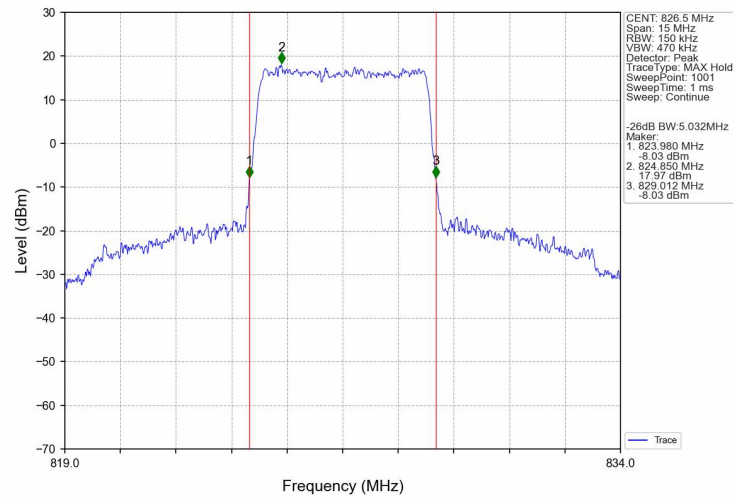
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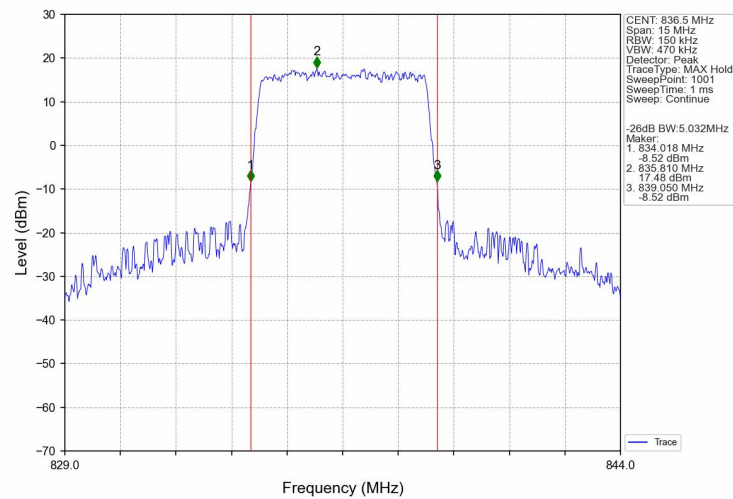
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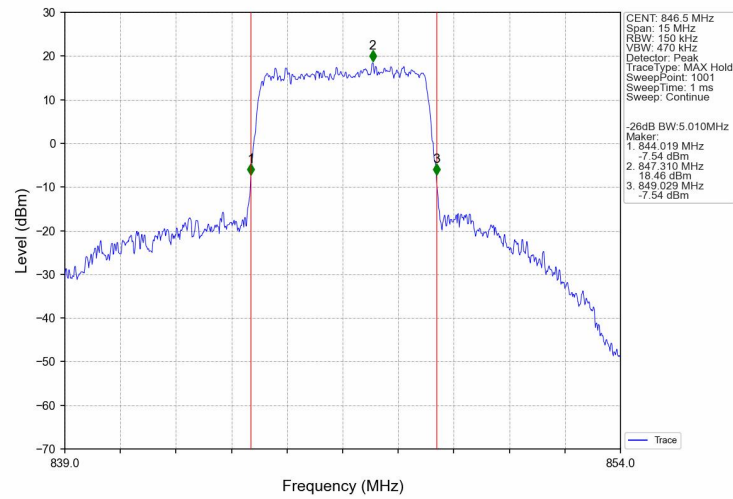
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



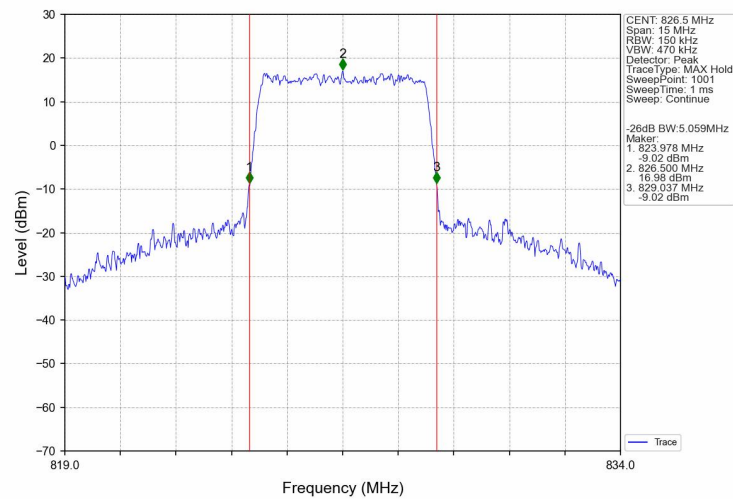
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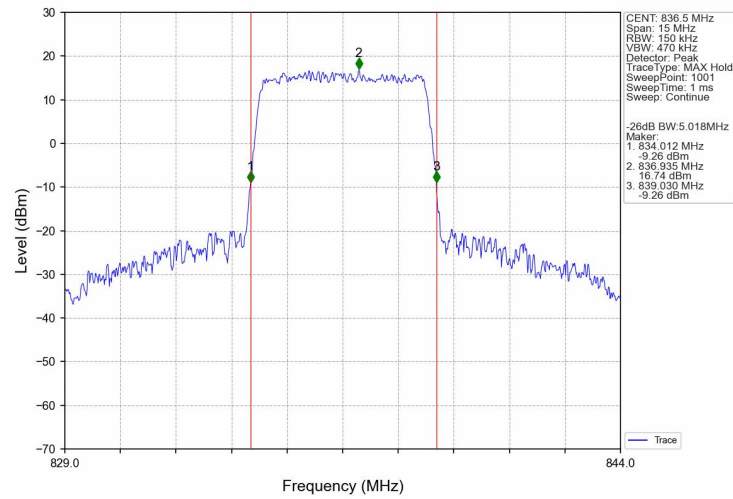
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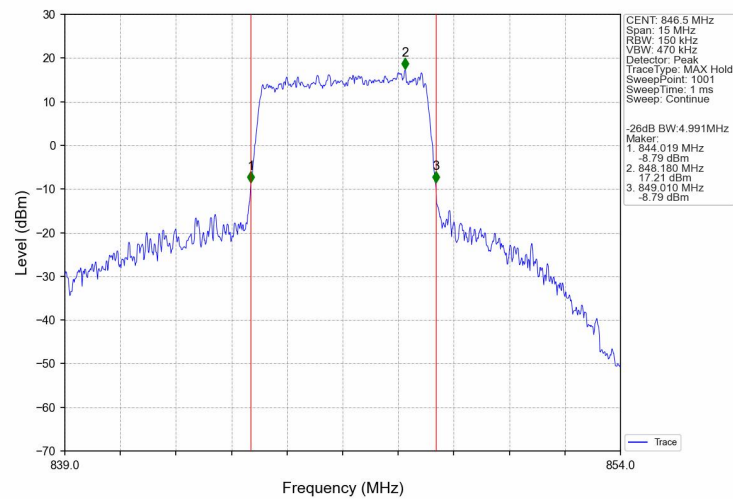
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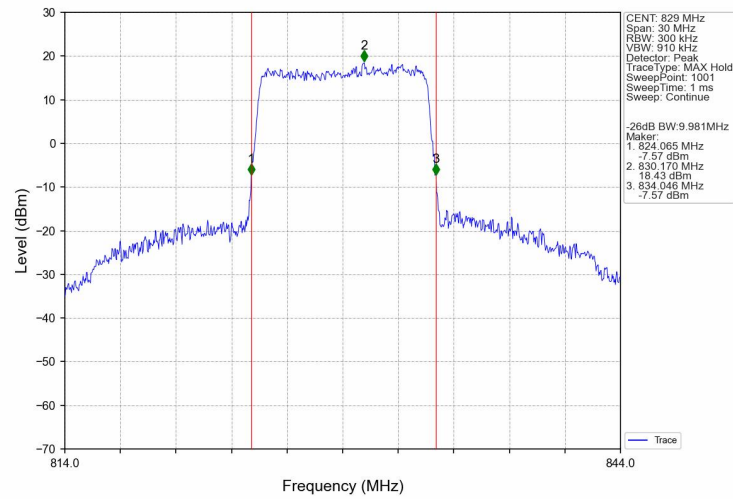
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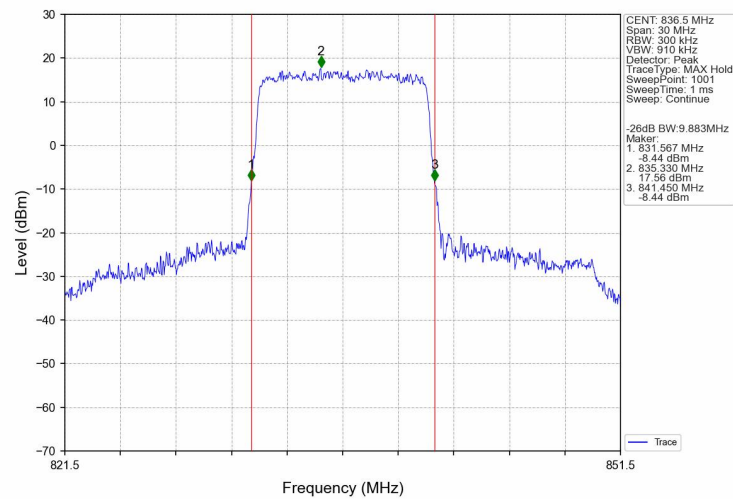
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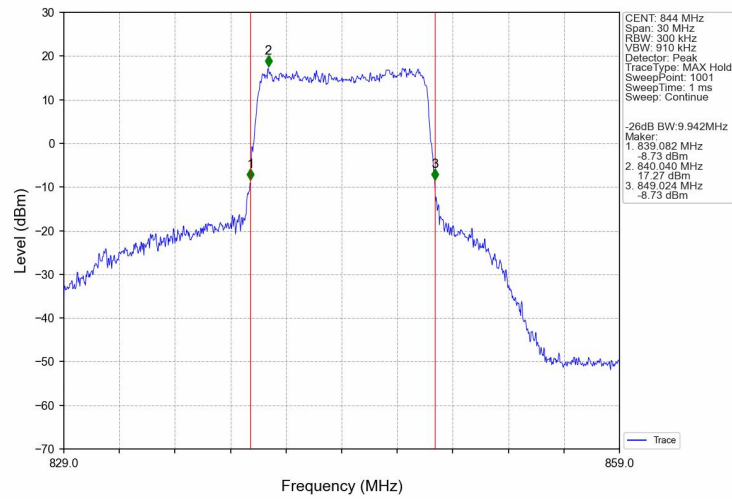
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



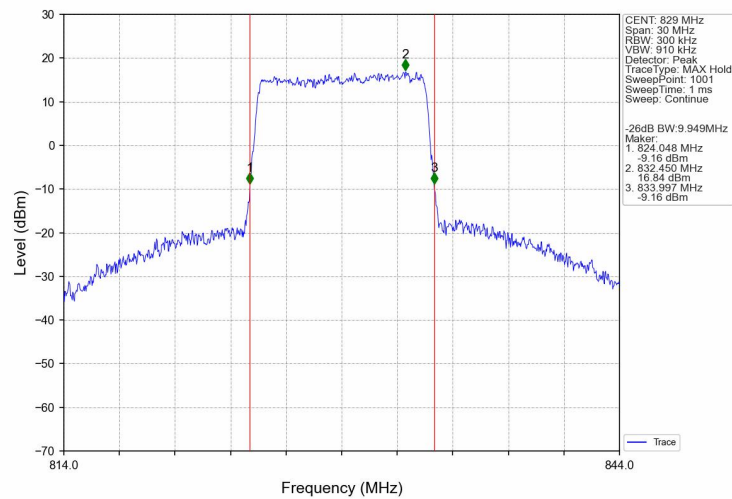
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



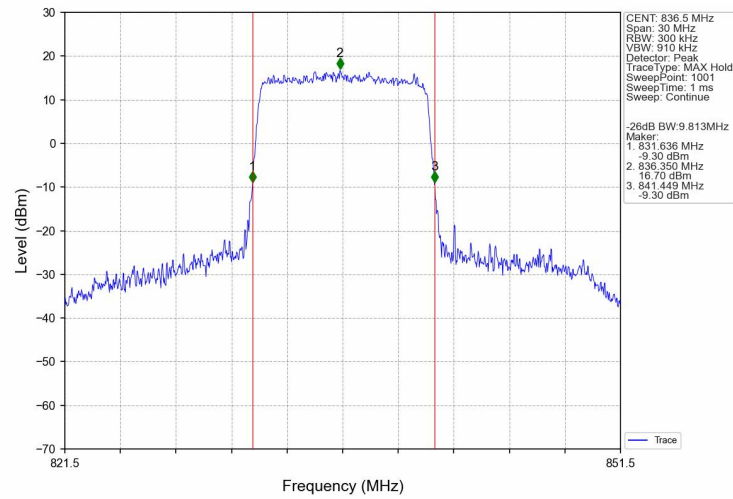
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



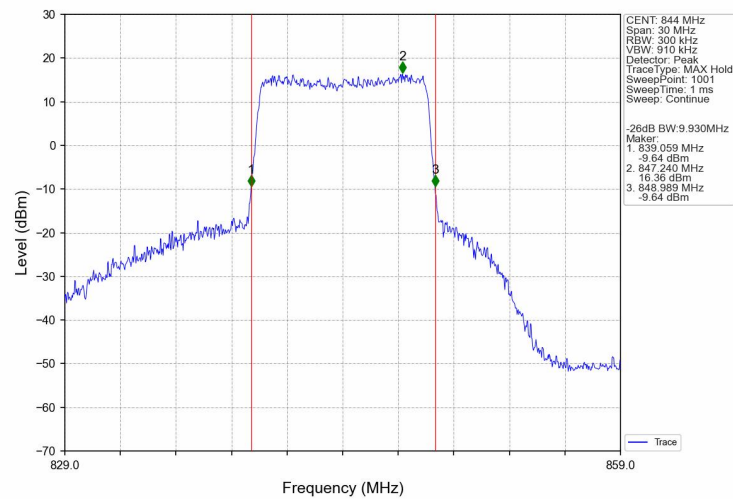
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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	5.15	<=13	Pass
	836.5	6	0	5.34	<=13	Pass
	848.3	6	0	5.12	<=13	Pass
16QAM	824.7	6	0	5.91	<=13	Pass
	836.5	6	0	6.08	<=13	Pass
	848.3	6	0	5.90	<=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	5.21	<=13	Pass
	836.5	15	0	5.48	<=13	Pass
	847.5	15	0	5.28	<=13	Pass
16QAM	825.5	15	0	6.00	<=13	Pass
	836.5	15	0	6.33	<=13	Pass
	847.5	15	0	6.06	<=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	5.54	<=13	Pass
	836.5	25	0	5.60	<=13	Pass
	846.5	25	0	5.43	<=13	Pass
16QAM	826.5	25	0	6.22	<=13	Pass
	836.5	25	0	6.28	<=13	Pass
	846.5	25	0	6.09	<=13	Pass

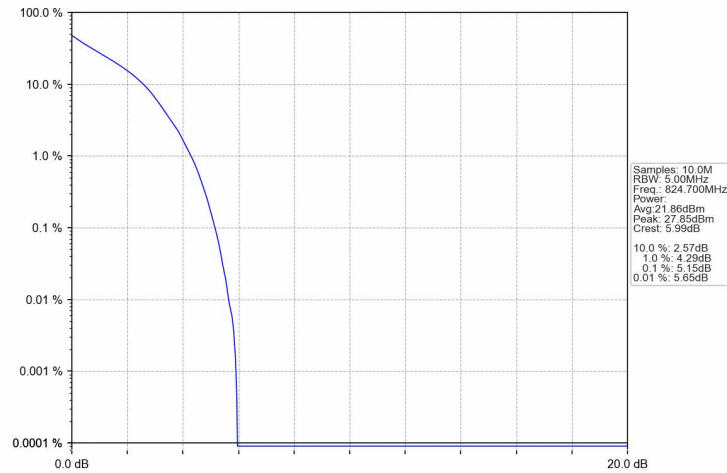
5.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.52	<=13	Pass
	836.5	50	0	5.47	<=13	Pass
	844	50	0	5.60	<=13	Pass
16QAM	829	50	0	6.25	<=13	Pass
	836.5	50	0	6.26	<=13	Pass
	844	50	0	6.25	<=13	Pass

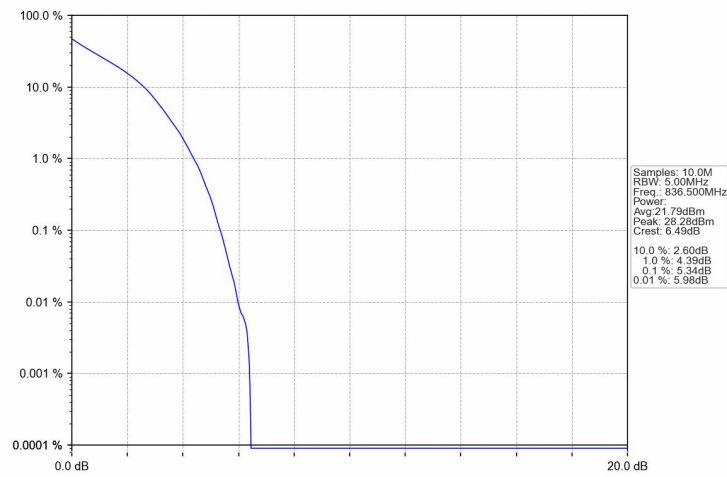
5.2 Test Graph

5.2.1 B5_1.4MHz

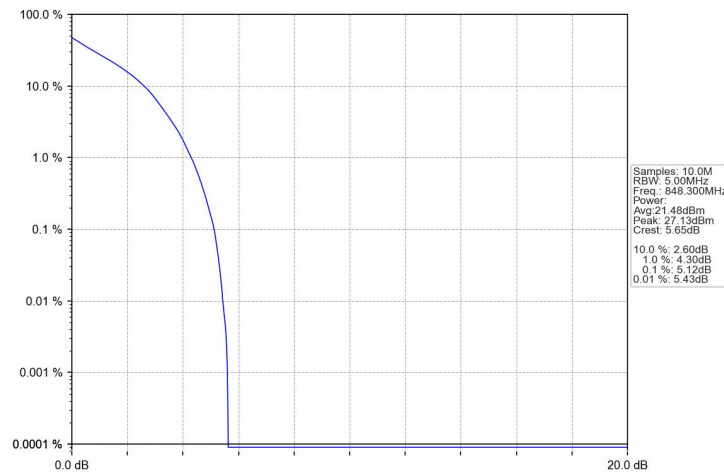
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



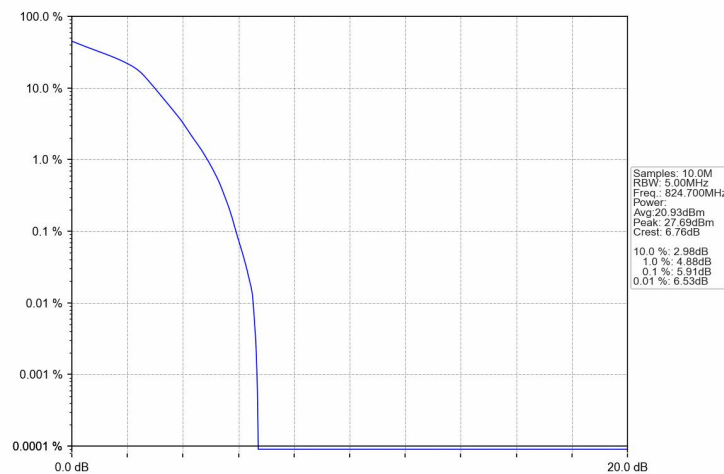
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



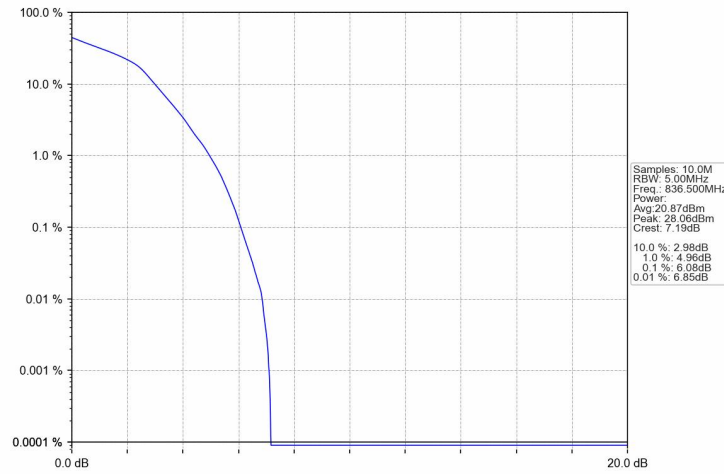
Band5 1.4MHz QPSK HCH 848.3MHz RB 6.0 NTNV



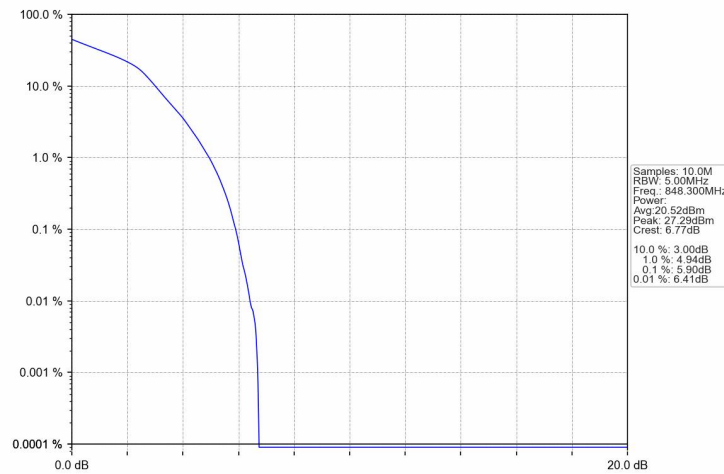
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6.0 NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

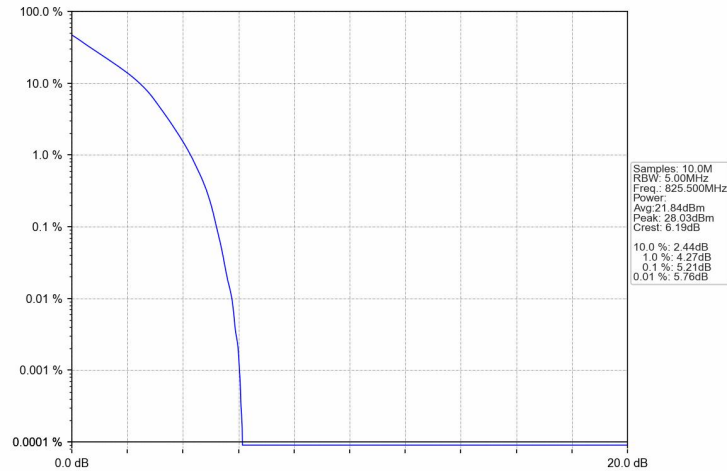


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

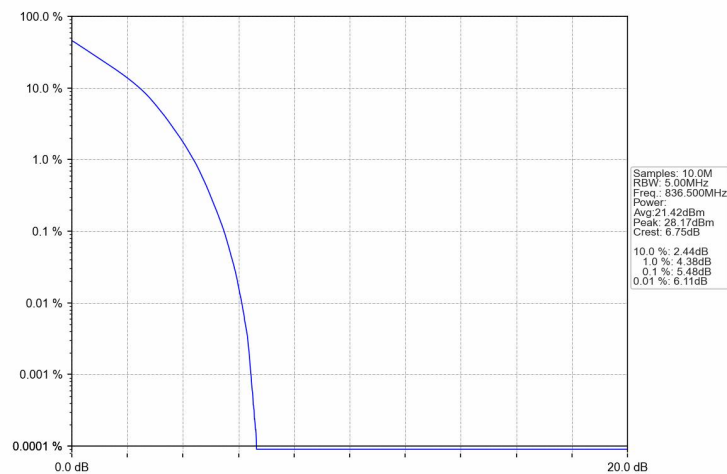


5.2.2 B5_3MHz

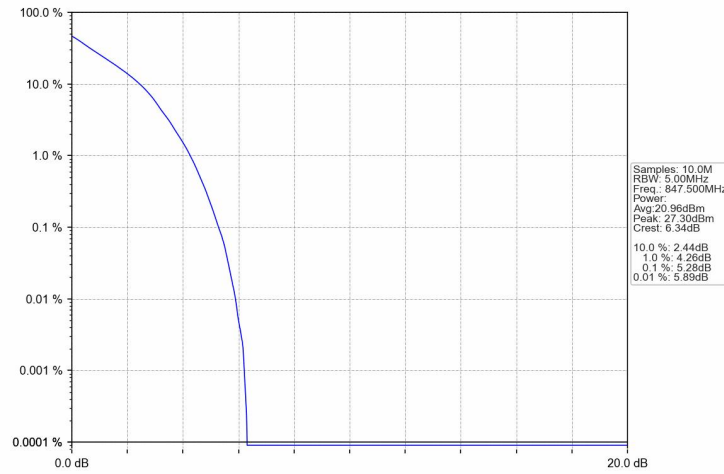
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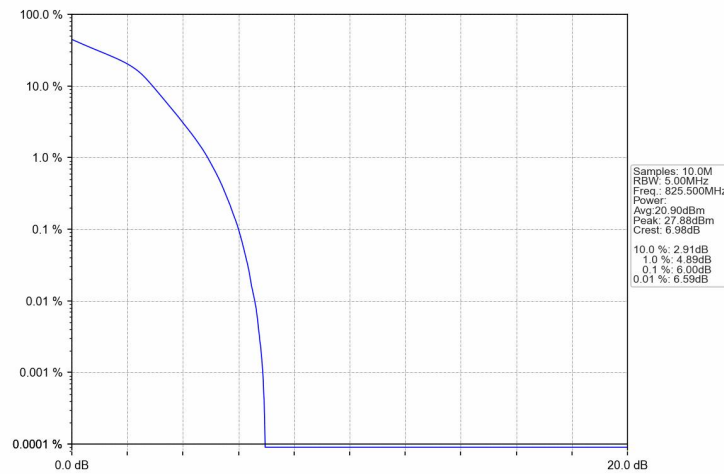
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



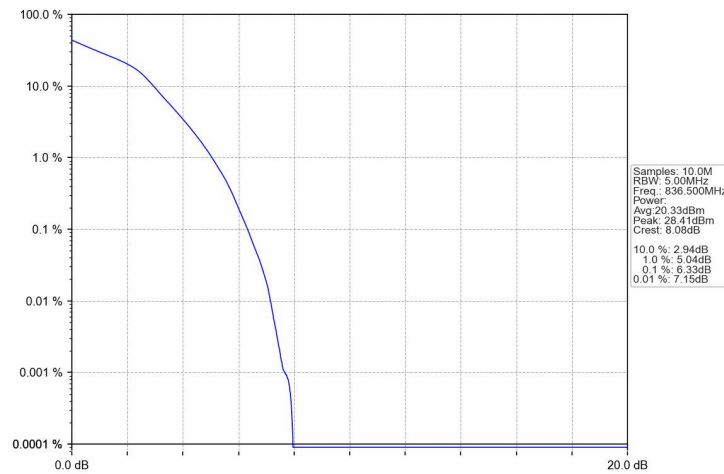
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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

