

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	24.39	-0.71	21.53	<=38.45	Pass
			2	24.59	-0.71	21.73	<=38.45	Pass
			5	24.42	-0.71	21.56	<=38.45	Pass
		3	0	24.54	-0.71	21.68	<=38.45	Pass
			2	24.54	-0.71	21.68	<=38.45	Pass
			3	24.55	-0.71	21.69	<=38.45	Pass
		6	0	23.46	-0.71	20.60	<=38.45	Pass
	836.5	1	0	24.39	-0.71	21.53	<=38.45	Pass
			2	24.62	-0.71	21.76	<=38.45	Pass
			5	24.42	-0.71	21.56	<=38.45	Pass
		3	0	24.49	-0.71	21.63	<=38.45	Pass
			2	24.45	-0.71	21.59	<=38.45	Pass
			3	24.57	-0.71	21.71	<=38.45	Pass
		6	0	23.49	-0.71	20.63	<=38.45	Pass
	848.3	1	0	24.39	-0.71	21.53	<=38.45	Pass
			2	24.62	-0.71	21.76	<=38.45	Pass
			5	24.42	-0.71	21.56	<=38.45	Pass
		3	0	24.44	-0.71	21.58	<=38.45	Pass
			2	24.37	-0.71	21.51	<=38.45	Pass
			3	24.40	-0.71	21.54	<=38.45	Pass
		6	0	23.48	-0.71	20.62	<=38.45	Pass
16QAM	824.7	1	0	23.38	-0.71	20.52	<=38.45	Pass
			2	23.58	-0.71	20.72	<=38.45	Pass
			5	23.38	-0.71	20.52	<=38.45	Pass
		3	0	23.59	-0.71	20.73	<=38.45	Pass
			2	23.52	-0.71	20.66	<=38.45	Pass
			3	23.55	-0.71	20.69	<=38.45	Pass
		6	0	22.51	-0.71	19.65	<=38.45	Pass
	836.5	1	0	23.78	-0.71	20.92	<=38.45	Pass
			2	23.97	-0.71	21.11	<=38.45	Pass
			5	23.74	-0.71	20.88	<=38.45	Pass
		3	0	23.55	-0.71	20.69	<=38.45	Pass
			2	23.53	-0.71	20.67	<=38.45	Pass
			3	23.58	-0.71	20.72	<=38.45	Pass
		6	0	22.49	-0.71	19.63	<=38.45	Pass
	848.3	1	0	23.24	-0.71	20.38	<=38.45	Pass
			2	23.46	-0.71	20.60	<=38.45	Pass
			5	23.26	-0.71	20.40	<=38.45	Pass
		3	0	23.29	-0.71	20.43	<=38.45	Pass
			2	23.26	-0.71	20.40	<=38.45	Pass
			3	23.29	-0.71	20.43	<=38.45	Pass
		6	0	22.44	-0.71	19.58	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	24.43	-0.71	21.57	<=38.45	Pass
			7	24.34	-0.71	21.48	<=38.45	Pass
			14	24.46	-0.71	21.60	<=38.45	Pass
		8	0	23.46	-0.71	20.60	<=38.45	Pass
			4	23.51	-0.71	20.65	<=38.45	Pass
			7	23.44	-0.71	20.58	<=38.45	Pass
		15	0	23.39	-0.71	20.53	<=38.45	Pass
	836.5	1	0	24.45	-0.71	21.59	<=38.45	Pass
			7	24.32	-0.71	21.46	<=38.45	Pass
			14	24.49	-0.71	21.63	<=38.45	Pass
		8	0	23.44	-0.71	20.58	<=38.45	Pass
			4	23.50	-0.71	20.64	<=38.45	Pass
			7	23.47	-0.71	20.61	<=38.45	Pass
		15	0	23.43	-0.71	20.57	<=38.45	Pass
	847.5	1	0	24.42	-0.71	21.56	<=38.45	Pass
			7	24.30	-0.71	21.44	<=38.45	Pass
			14	24.50	-0.71	21.64	<=38.45	Pass
		8	0	23.38	-0.71	20.52	<=38.45	Pass
			4	23.45	-0.71	20.59	<=38.45	Pass
			7	23.38	-0.71	20.52	<=38.45	Pass
		15	0	23.41	-0.71	20.55	<=38.45	Pass
16QAM	825.5	1	0	23.40	-0.71	20.54	<=38.45	Pass
			7	23.32	-0.71	20.46	<=38.45	Pass
			14	23.44	-0.71	20.58	<=38.45	Pass
		8	0	22.44	-0.71	19.58	<=38.45	Pass
			4	22.47	-0.71	19.61	<=38.45	Pass
			7	22.41	-0.71	19.55	<=38.45	Pass
		15	0	22.35	-0.71	19.49	<=38.45	Pass
	836.5	1	0	23.79	-0.71	20.93	<=38.45	Pass
			7	23.66	-0.71	20.80	<=38.45	Pass
			14	23.81	-0.71	20.95	<=38.45	Pass
		8	0	22.51	-0.71	19.65	<=38.45	Pass
			4	22.56	-0.71	19.70	<=38.45	Pass
			7	22.48	-0.71	19.62	<=38.45	Pass
		15	0	22.49	-0.71	19.63	<=38.45	Pass
	847.5	1	0	23.31	-0.71	20.45	<=38.45	Pass
			7	23.20	-0.71	20.34	<=38.45	Pass
			14	23.29	-0.71	20.43	<=38.45	Pass
		8	0	22.36	-0.71	19.50	<=38.45	Pass
			4	22.40	-0.71	19.54	<=38.45	Pass
			7	22.33	-0.71	19.47	<=38.45	Pass
		15	0	22.42	-0.71	19.56	<=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	24.30	-0.71	21.44	<=38.45	Pass
			13	24.48	-0.71	21.62	<=38.45	Pass
			24	24.32	-0.71	21.46	<=38.45	Pass
		12	0	23.39	-0.71	20.53	<=38.45	Pass
			6	23.43	-0.71	20.57	<=38.45	Pass
			13	23.40	-0.71	20.54	<=38.45	Pass
		25	0	23.40	-0.71	20.54	<=38.45	Pass
			0	24.22	-0.71	21.36	<=38.45	Pass
			13	24.31	-0.71	21.45	<=38.45	Pass
	836.5	1	24	24.22	-0.71	21.36	<=38.45	Pass
			0	23.38	-0.71	20.52	<=38.45	Pass
			6	23.45	-0.71	20.59	<=38.45	Pass
		12	13	23.38	-0.71	20.52	<=38.45	Pass
			0	23.40	-0.71	20.54	<=38.45	Pass
			0	24.28	-0.71	21.42	<=38.45	Pass
		25	13	24.33	-0.71	21.47	<=38.45	Pass
			24	24.26	-0.71	21.40	<=38.45	Pass
			0	23.37	-0.71	20.51	<=38.45	Pass
	846.5	12	6	23.41	-0.71	20.55	<=38.45	Pass
			13	23.37	-0.71	20.51	<=38.45	Pass
			0	23.37	-0.71	20.51	<=38.45	Pass
16QAM	826.5	1	0	23.67	-0.71	20.81	<=38.45	Pass
			13	23.86	-0.71	21.00	<=38.45	Pass
			24	23.73	-0.71	20.87	<=38.45	Pass
		12	0	22.41	-0.71	19.55	<=38.45	Pass
			6	22.45	-0.71	19.59	<=38.45	Pass
			13	22.40	-0.71	19.54	<=38.45	Pass
		25	0	22.41	-0.71	19.55	<=38.45	Pass
			0	23.37	-0.71	20.51	<=38.45	Pass
			13	23.48	-0.71	20.62	<=38.45	Pass
	836.5	1	24	23.34	-0.71	20.48	<=38.45	Pass
			0	22.33	-0.71	19.47	<=38.45	Pass
			6	22.45	-0.71	19.59	<=38.45	Pass
		12	13	22.38	-0.71	19.52	<=38.45	Pass
			0	22.39	-0.71	19.53	<=38.45	Pass
			0	23.22	-0.71	20.36	<=38.45	Pass
		25	13	23.32	-0.71	20.46	<=38.45	Pass
			24	23.18	-0.71	20.32	<=38.45	Pass
			0	22.42	-0.71	19.56	<=38.45	Pass
	846.5	12	6	22.46	-0.71	19.60	<=38.45	Pass
			13	22.41	-0.71	19.55	<=38.45	Pass
			0	22.47	-0.71	19.61	<=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	24.48	-0.71	21.62	<=38.45	Pass
			25	24.55	-0.71	21.69	<=38.45	Pass
			49	24.43	-0.71	21.57	<=38.45	Pass
		25	0	23.51	-0.71	20.65	<=38.45	Pass
			13	23.43	-0.71	20.57	<=38.45	Pass
			25	23.48	-0.71	20.62	<=38.45	Pass
		50	0	23.50	-0.71	20.64	<=38.45	Pass
			0	24.35	-0.71	21.49	<=38.45	Pass
			25	24.37	-0.71	21.51	<=38.45	Pass
	836.5	1	49	24.38	-0.71	21.52	<=38.45	Pass
			0	23.39	-0.71	20.53	<=38.45	Pass
			13	23.46	-0.71	20.60	<=38.45	Pass
		25	25	23.45	-0.71	20.59	<=38.45	Pass
			0	23.42	-0.71	20.56	<=38.45	Pass
			0	24.39	-0.71	21.53	<=38.45	Pass
		50	25	24.44	-0.71	21.58	<=38.45	Pass
			49	24.41	-0.71	21.55	<=38.45	Pass
			0	23.53	-0.71	20.67	<=38.45	Pass
	844	25	13	23.45	-0.71	20.59	<=38.45	Pass
			25	23.39	-0.71	20.53	<=38.45	Pass
			0	23.48	-0.71	20.62	<=38.45	Pass
16QAM	829	1	0	23.31	-0.71	20.45	<=38.45	Pass
			25	23.42	-0.71	20.56	<=38.45	Pass
			49	23.38	-0.71	20.52	<=38.45	Pass
		25	0	22.55	-0.71	19.69	<=38.45	Pass
			13	22.51	-0.71	19.65	<=38.45	Pass
			25	22.52	-0.71	19.66	<=38.45	Pass
		50	0	22.55	-0.71	19.69	<=38.45	Pass
			0	23.43	-0.71	20.57	<=38.45	Pass
			25	23.44	-0.71	20.58	<=38.45	Pass
	836.5	1	49	23.38	-0.71	20.52	<=38.45	Pass
			0	22.47	-0.71	19.61	<=38.45	Pass
			13	22.51	-0.71	19.65	<=38.45	Pass
		25	25	22.48	-0.71	19.62	<=38.45	Pass
			0	22.44	-0.71	19.58	<=38.45	Pass
			0	23.71	-0.71	20.85	<=38.45	Pass
		50	25	23.72	-0.71	20.86	<=38.45	Pass
			49	23.69	-0.71	20.83	<=38.45	Pass
			0	22.51	-0.71	19.65	<=38.45	Pass
	844	25	13	22.47	-0.71	19.61	<=38.45	Pass
			25	22.42	-0.71	19.56	<=38.45	Pass
			0	22.51	-0.71	19.65	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	824.7	6	0	20	3.27	-6.537	-0.0079	-2.5 to 2.5	Pass
					3.85	-7.825	-0.0095	-2.5 to 2.5	Pass
					4.43	-7.982	-0.0097	-2.5 to 2.5	Pass
				-30	3.85	-7.138	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-7.625	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-4.749	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-9.141	-0.0111	-2.5 to 2.5	Pass
				10	3.85	-5.536	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-9.727	-0.0118	-2.5 to 2.5	Pass
				40	3.85	-6.323	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-6.652	-0.0081	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-3.505	-0.0042	-2.5 to 2.5	Pass
					3.85	-3.390	-0.0041	-2.5 to 2.5	Pass
					4.43	-5.493	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-5.879	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	-10.729	-0.0128	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-6.094	-0.0073	-2.5 to 2.5	Pass
				30	3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-6.151	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-8.841	-0.0106	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-3.362	-0.0040	-2.5 to 2.5	Pass
					3.85	-2.704	-0.0032	-2.5 to 2.5	Pass
					4.43	-6.895	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-5.651	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-5.894	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-2.246	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-3.605	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-6.924	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-6.595	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-3.505	-0.0041	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-5.908	-0.0072	-2.5 to 2.5	Pass
					3.85	-5.236	-0.0063	-2.5 to 2.5	Pass
					4.43	-5.980	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-4.764	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-9.813	-0.0119	-2.5 to 2.5	Pass
				-10	3.85	-8.268	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-5.207	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-6.824	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-7.310	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-6.423	-0.0078	-2.5 to 2.5	Pass
				50	3.85	-2.303	-0.0028	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-6.695	-0.0080	-2.5 to 2.5	Pass
					3.85	-7.181	-0.0086	-2.5 to 2.5	Pass
					4.43	-6.466	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-4.764	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-11.344	-0.0136	-2.5 to 2.5	Pass
				-10	3.85	-7.439	-0.0089	-2.5 to 2.5	Pass

				0	3.85	-6.094	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-2.003	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-7.267	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-11.172	-0.0134	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-4.492	-0.0053	-2.5 to 2.5	Pass
					3.85	-7.267	-0.0086	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-6.480	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-9.527	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-9.084	-0.0107	-2.5 to 2.5	Pass
				0	3.85	-6.323	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-9.084	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-4.177	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-5.407	-0.0064	-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	-11.816	-0.0143	-2.5 to 2.5	Pass
					3.85	-5.379	-0.0065	-2.5 to 2.5	Pass
					4.43	-4.349	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	-4.649	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-4.320	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-6.537	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-5.293	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-3.877	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass
				50	3.85	0.544	0.0007	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-6.580	-0.0079	-2.5 to 2.5	Pass
					3.85	-9.341	-0.0112	-2.5 to 2.5	Pass
					4.43	-9.327	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-10.328	-0.0123	-2.5 to 2.5	Pass
				-20	3.85	-5.379	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-7.038	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-7.353	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-7.739	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-6.595	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-12.302	-0.0147	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-7.052	-0.0083	-2.5 to 2.5	Pass
					3.85	-10.185	-0.0120	-2.5 to 2.5	Pass
					4.43	-7.195	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-7.868	-0.0093	-2.5 to 2.5	Pass
				-20	3.85	-7.367	-0.0087	-2.5 to 2.5	Pass
				-10	3.85	-7.081	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-6.366	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-7.582	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-7.281	-0.0086	-2.5 to 2.5	Pass
				50	3.85	-7.482	-0.0088	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	0.257	0.0003	-2.5 to 2.5	Pass
					3.85	-2.017	-0.0024	-2.5 to 2.5	Pass
					4.43	-3.920	-0.0047	-2.5 to 2.5	Pass

				-30	3.85	0.558	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.558	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				0	3.85	-5.035	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-2.289	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-2.046	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-0.873	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-3.862	-0.0047	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-8.826	-0.0106	-2.5 to 2.5	Pass
					3.85	-6.981	-0.0083	-2.5 to 2.5	Pass
					4.43	-6.838	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-6.924	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-6.566	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-7.882	-0.0094	-2.5 to 2.5	Pass
				0	3.85	-6.065	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-6.423	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-3.676	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-3.648	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-5.479	-0.0065	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-11.487	-0.0136	-2.5 to 2.5	Pass
					3.85	-6.509	-0.0077	-2.5 to 2.5	Pass
					4.43	-2.618	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-8.354	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-8.812	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-7.052	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-9.556	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-6.237	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-6.723	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-7.610	-0.0090	-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	-5.322	-0.0064	-2.5 to 2.5	Pass
					3.85	-10.872	-0.0132	-2.5 to 2.5	Pass
					4.43	-8.554	-0.0103	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-5.593	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-8.812	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-3.290	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-4.478	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-5.107	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-5.579	-0.0068	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-5.465	-0.0065	-2.5 to 2.5	Pass
					3.85	-5.021	-0.0060	-2.5 to 2.5	Pass
					4.43	-5.436	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-4.935	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-4.249	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-8.798	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-5.436	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-5.364	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-9.427	-0.0113	-2.5 to 2.5	Pass
				40	3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-6.595	-0.0079	-2.5 to 2.5	Pass

	846.5	25	0	20	3.27	-4.163	-0.0049	-2.5 to 2.5	Pass
					3.85	-7.696	-0.0091	-2.5 to 2.5	Pass
					4.43	-8.497	-0.0100	-2.5 to 2.5	Pass
				-30	3.85	-8.011	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-7.024	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-8.869	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-8.354	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-7.939	-0.0094	-2.5 to 2.5	Pass
				30	3.85	-7.782	-0.0092	-2.5 to 2.5	Pass
				40	3.85	-4.807	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-8.583	-0.0101	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-9.971	-0.0121	-2.5 to 2.5	Pass
					3.85	-5.407	-0.0065	-2.5 to 2.5	Pass
					4.43	-7.582	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-8.011	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-7.224	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-6.866	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-9.184	-0.0111	-2.5 to 2.5	Pass
				40	3.85	-7.954	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-5.450	-0.0066	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-5.665	-0.0068	-2.5 to 2.5	Pass
					3.85	-4.077	-0.0049	-2.5 to 2.5	Pass
					4.43	-10.614	-0.0127	-2.5 to 2.5	Pass
				-30	3.85	-6.909	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-5.293	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-6.967	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-6.237	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-9.813	-0.0117	-2.5 to 2.5	Pass
				40	3.85	-9.227	-0.0110	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0074	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-6.595	-0.0078	-2.5 to 2.5	Pass
					3.85	-5.178	-0.0061	-2.5 to 2.5	Pass
					4.43	-8.068	-0.0095	-2.5 to 2.5	Pass
				-30	3.85	-9.098	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-6.623	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-9.856	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-9.756	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-9.813	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-8.626	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-9.456	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-8.311	-0.0098	-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	-6.623	-0.0080	-2.5 to 2.5	Pass
					3.85	-8.097	-0.0098	-2.5 to 2.5	Pass
					4.43	-6.065	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-4.864	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-4.907	-0.0059	-2.5 to 2.5	Pass
				-10	3.85	-9.298	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-10.686	-0.0129	-2.5 to 2.5	Pass
				10	3.85	-9.098	-0.0110	-2.5 to 2.5	Pass

				30	3.85	-8.268	-0.0100	-2.5 to 2.5	Pass
				40	3.85	-9.484	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-8.254	-0.0100	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-6.537	-0.0078	-2.5 to 2.5	Pass
					3.85	-5.951	-0.0071	-2.5 to 2.5	Pass
					4.43	-7.396	-0.0088	-2.5 to 2.5	Pass
				-30	3.85	-8.640	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-8.912	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-3.848	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-5.693	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-7.739	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-6.351	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-4.263	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-3.376	-0.0040	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-8.769	-0.0104	-2.5 to 2.5	Pass
					3.85	-6.452	-0.0076	-2.5 to 2.5	Pass
					4.43	-2.646	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-5.636	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-4.106	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-2.961	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-6.595	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-5.636	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-8.926	-0.0106	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-9.999	-0.0121	-2.5 to 2.5	Pass
					3.85	-10.242	-0.0124	-2.5 to 2.5	Pass
					4.43	-7.696	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-7.682	-0.0093	-2.5 to 2.5	Pass
				-20	3.85	-7.668	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-6.595	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-7.753	-0.0094	-2.5 to 2.5	Pass
				10	3.85	-6.981	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-5.379	-0.0065	-2.5 to 2.5	Pass
				40	3.85	-7.653	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-6.537	-0.0079	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-3.834	-0.0046	-2.5 to 2.5	Pass
					3.85	-2.861	-0.0034	-2.5 to 2.5	Pass
					4.43	-3.304	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-10.099	-0.0121	-2.5 to 2.5	Pass
				-20	3.85	-7.052	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-8.984	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-2.961	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-3.719	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-2.861	-0.0034	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-7.524	-0.0089	-2.5 to 2.5	Pass
					3.85	-3.691	-0.0044	-2.5 to 2.5	Pass
					4.43	-6.480	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-3.548	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-9.871	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-7.167	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-5.579	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-3.791	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-4.964	-0.0059	-2.5 to 2.5	Pass
				40	3.85	-3.262	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-6.938	-0.0082	-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

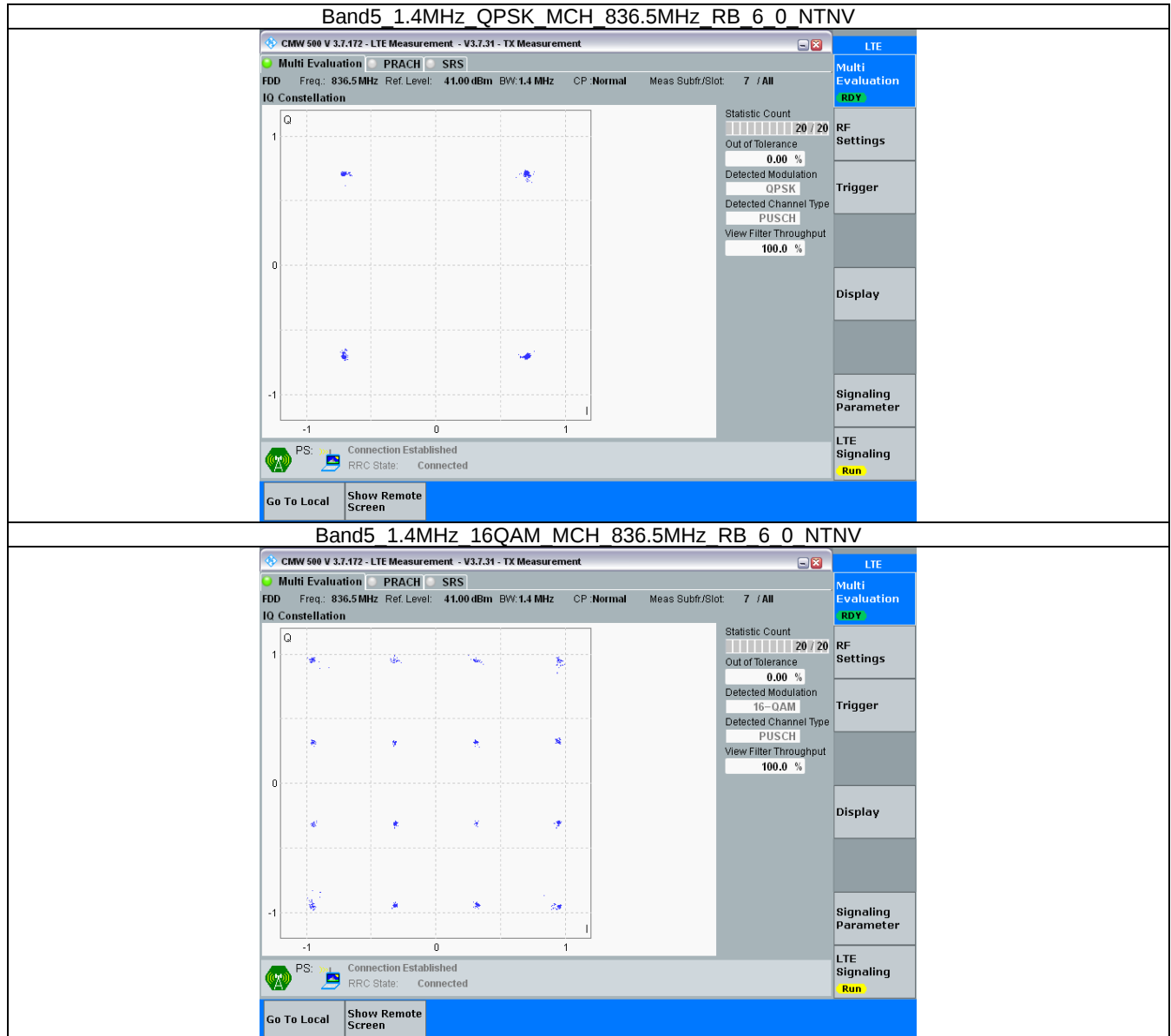
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

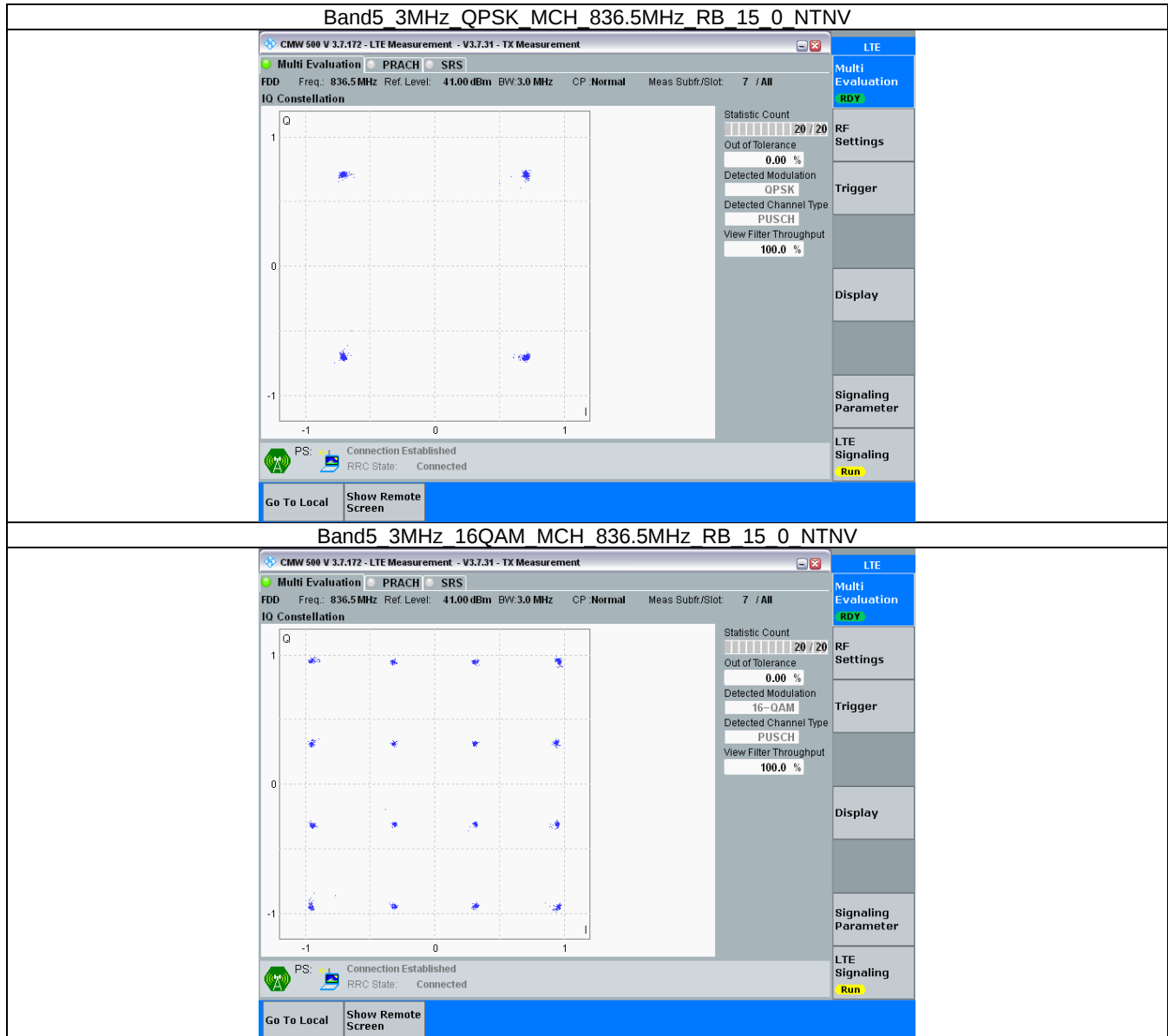
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

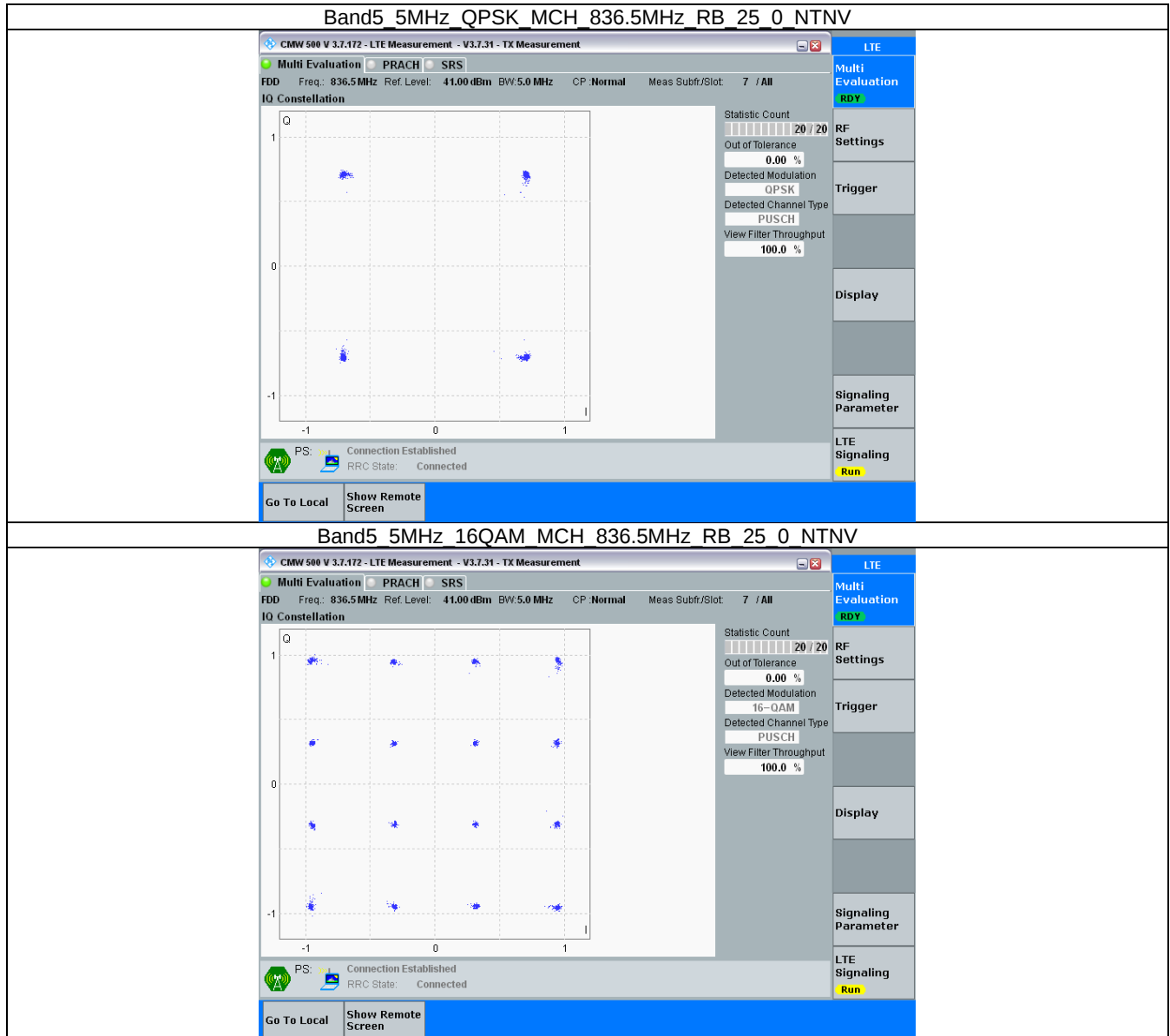
3.2.1 B5_1.4MHz



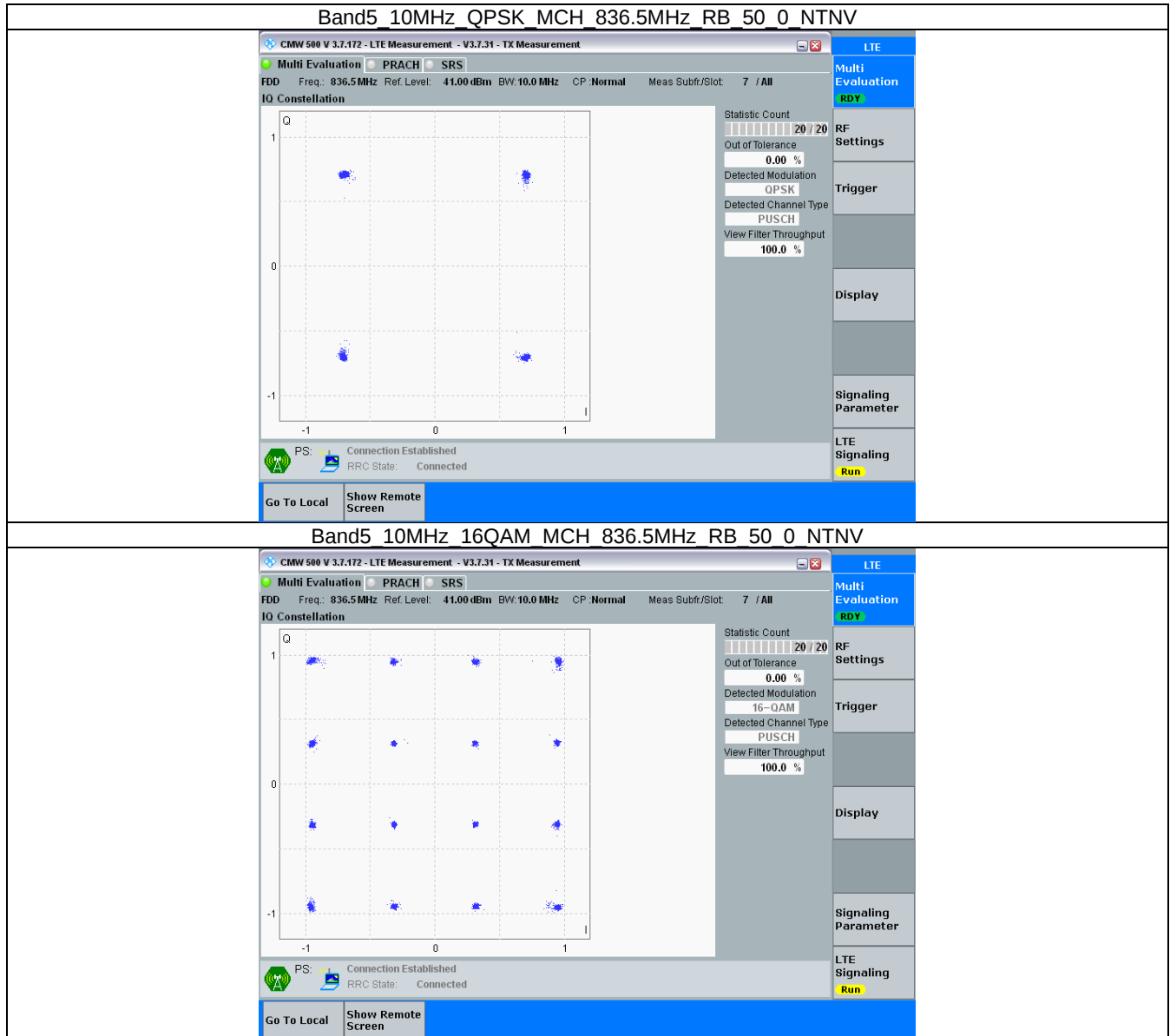
3.2.2 B5_3MHz



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	1.117	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.113	/	Pass
	16QAM	824.7	6	0	1.114	/	Pass
		836.5	6	0	1.109	/	Pass
		848.3	6	0	1.115	/	Pass
3	QPSK	825.5	15	0	2.728	/	Pass
		836.5	15	0	2.727	/	Pass
		847.5	15	0	2.736	/	Pass
	16QAM	825.5	15	0	2.717	/	Pass
		836.5	15	0	2.715	/	Pass
		847.5	15	0	2.721	/	Pass
5	QPSK	826.5	25	0	4.559	/	Pass
		836.5	25	0	4.541	/	Pass
		846.5	25	0	4.552	/	Pass
	16QAM	826.5	25	0	4.534	/	Pass
		836.5	25	0	4.543	/	Pass
		846.5	25	0	4.563	/	Pass
10	QPSK	829	50	0	9.082	/	Pass
		836.5	50	0	9.080	/	Pass
		844	50	0	9.039	/	Pass
	16QAM	829	50	0	9.089	/	Pass
		836.5	50	0	9.034	/	Pass
		844	50	0	9.059	/	Pass

4.1.2 Band5_XDB

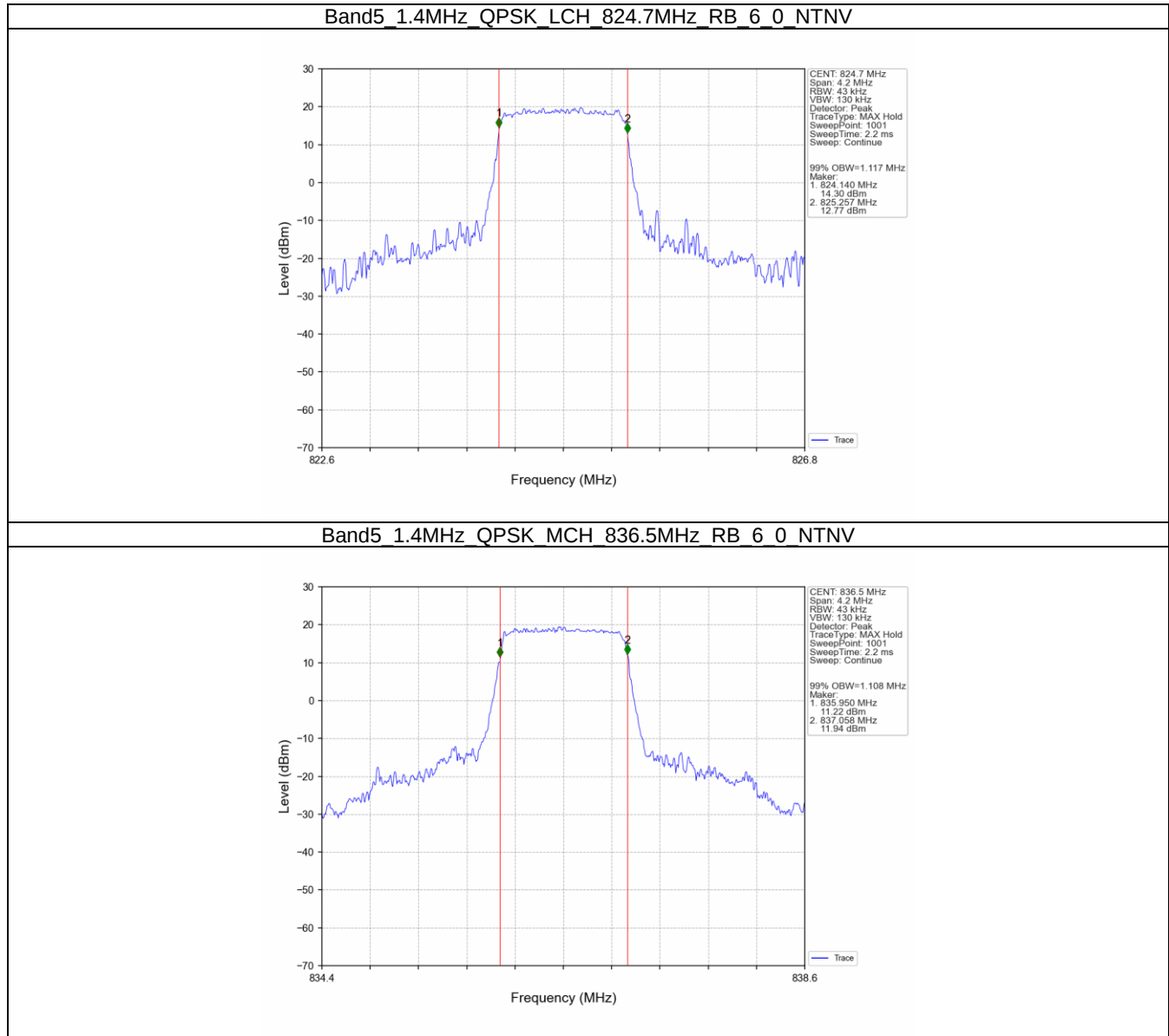
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.312	/	Pass
		836.5	6	0	1.308	/	Pass
		848.3	6	0	1.351	/	Pass
	16QAM	824.7	6	0	1.315	/	Pass
		836.5	6	0	1.309	/	Pass
		848.3	6	0	1.337	/	Pass
3	QPSK	825.5	15	0	2.980	/	Pass
		836.5	15	0	2.989	/	Pass
		847.5	15	0	3.009	/	Pass
	16QAM	825.5	15	0	2.983	/	Pass
		836.5	15	0	2.996	/	Pass
		847.5	15	0	2.983	/	Pass
5	QPSK	826.5	25	0	5.013	/	Pass
		836.5	25	0	5.026	/	Pass
		846.5	25	0	5.000	/	Pass
	16QAM	826.5	25	0	4.999	/	Pass
		836.5	25	0	5.005	/	Pass
		846.5	25	0	5.030	/	Pass
10	QPSK	829	50	0	10.010	/	Pass



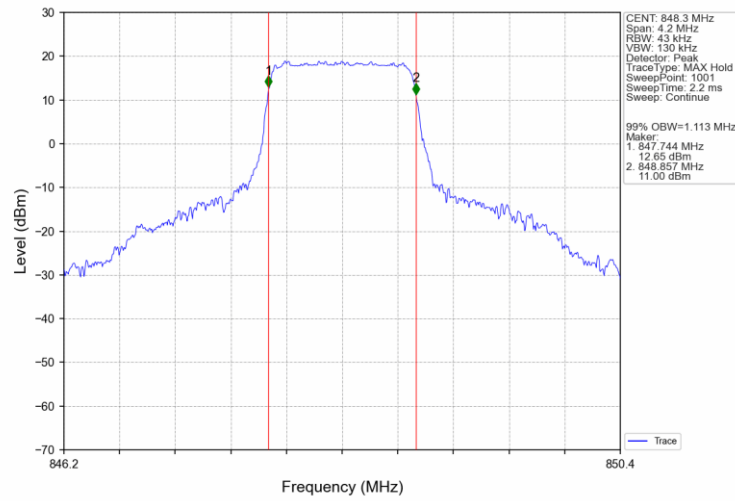
		836.5	50	0	9.970	/	Pass
		844	50	0	9.925	/	Pass
	16QAM	829	50	0	9.897	/	Pass
		836.5	50	0	9.924	/	Pass
		844	50	0	9.876	/	Pass

4.2 Test Graph

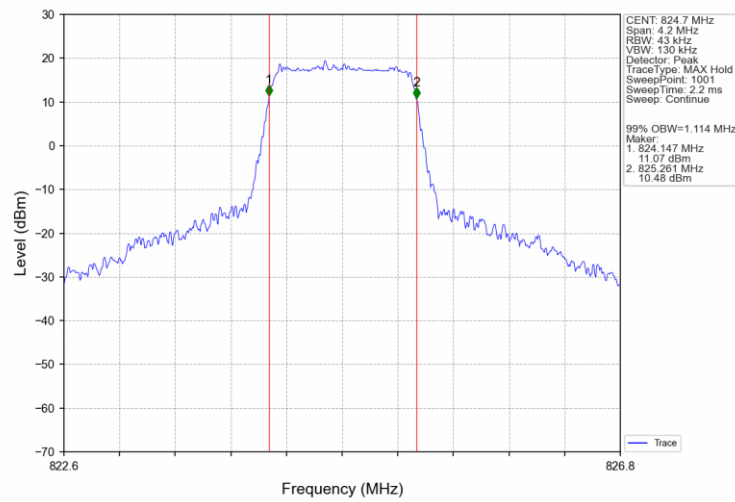
4.2.1 Band5_OBW



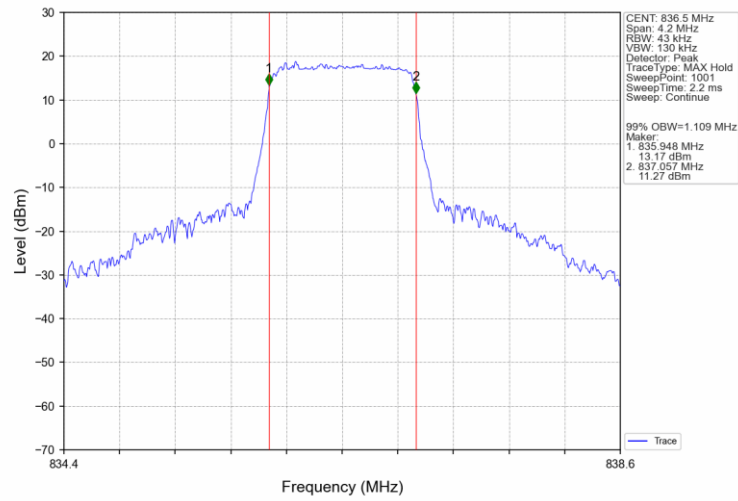
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



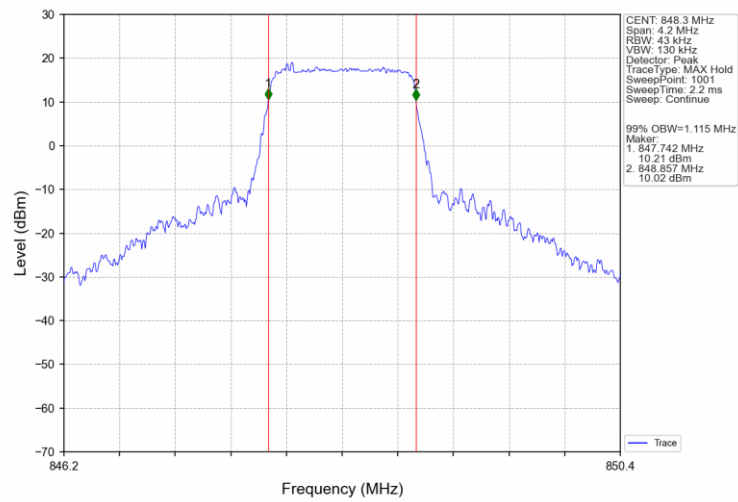
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



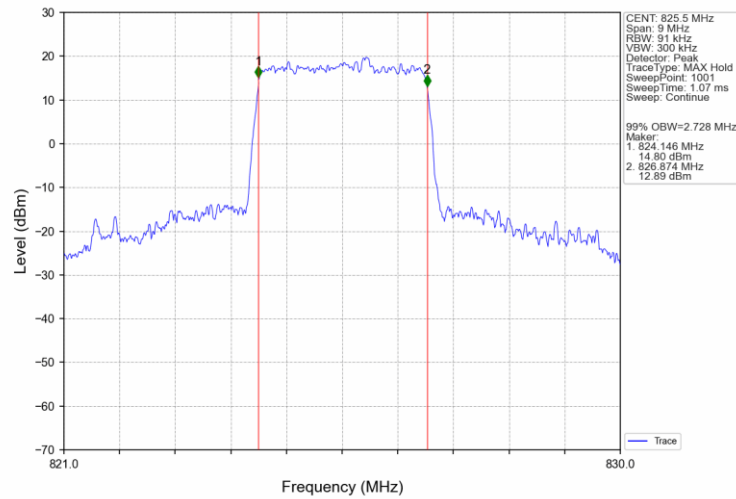
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



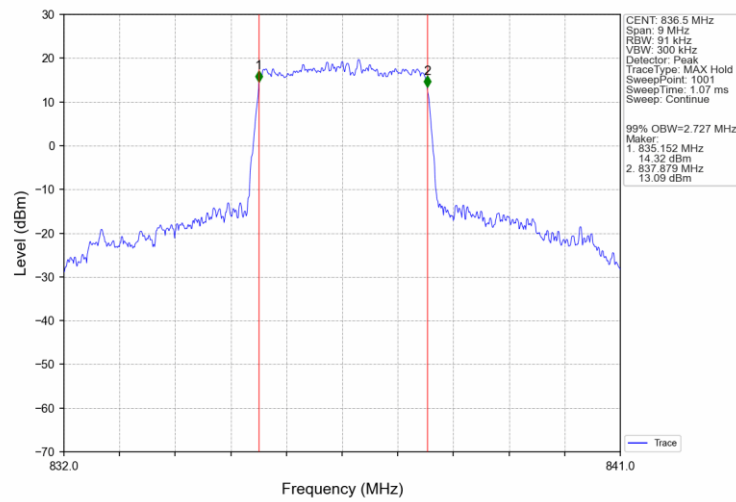
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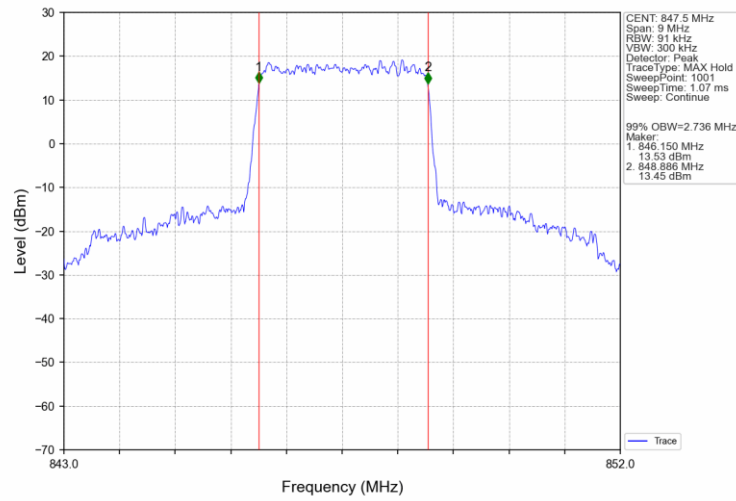
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



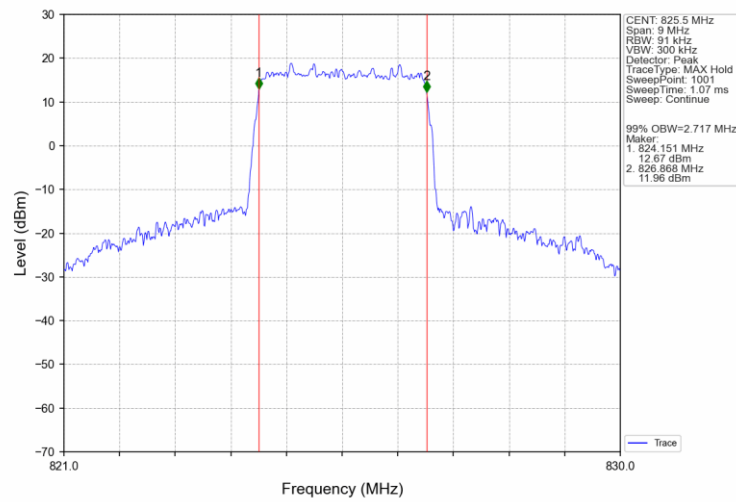
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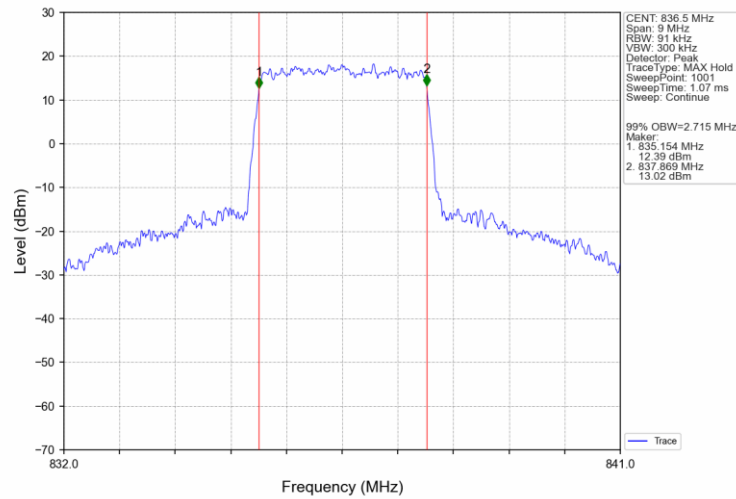
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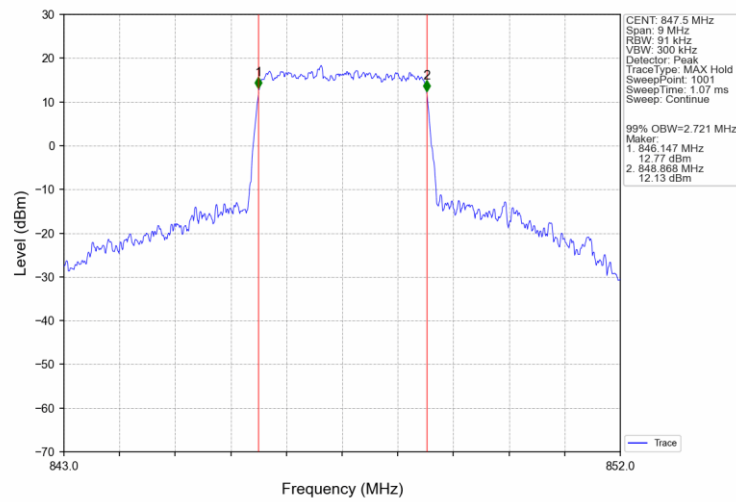
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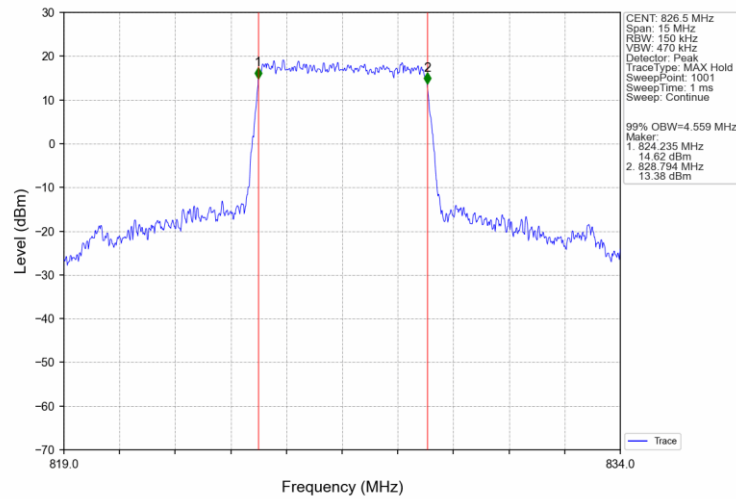
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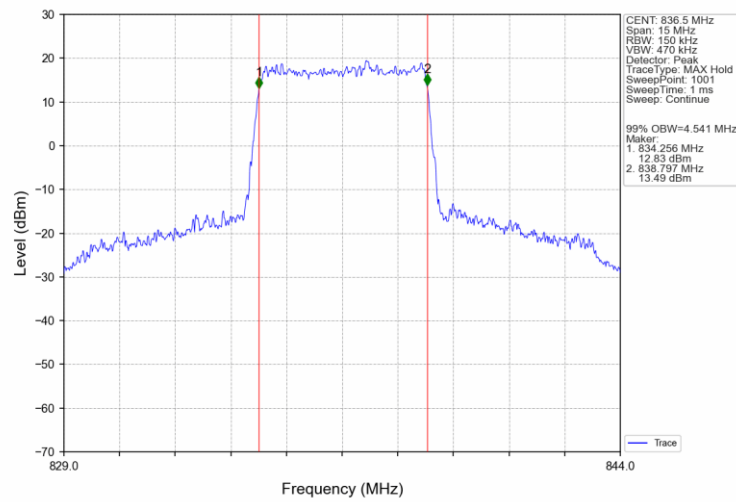
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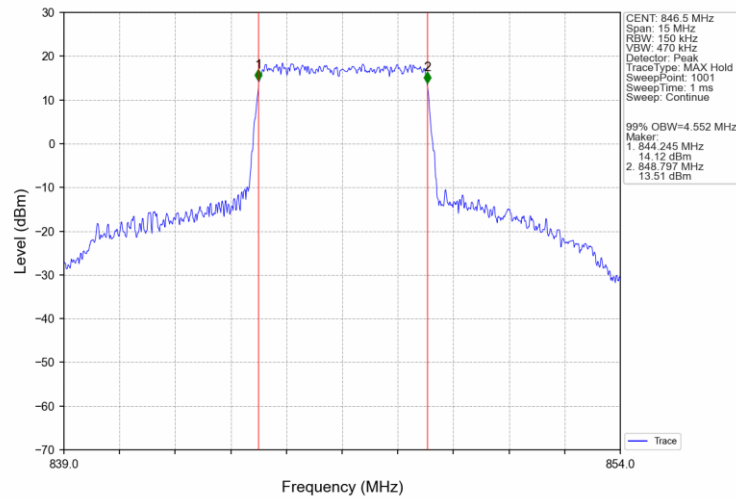
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



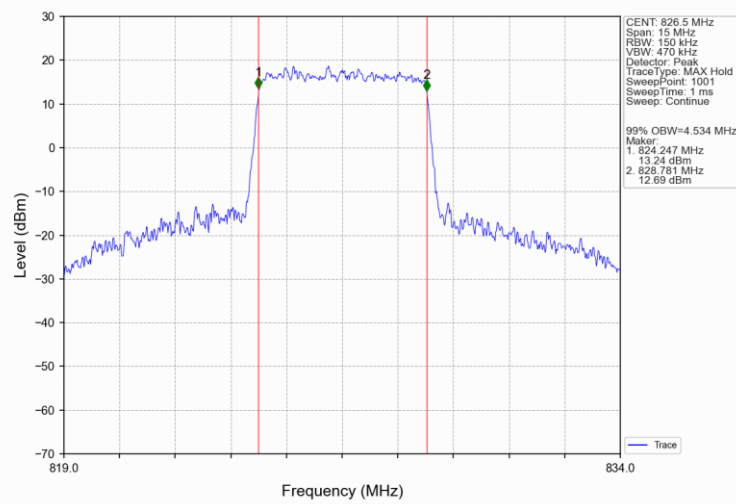
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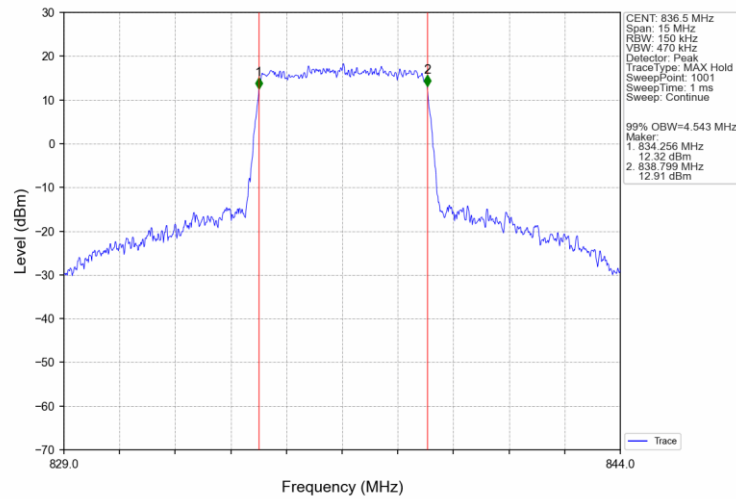
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



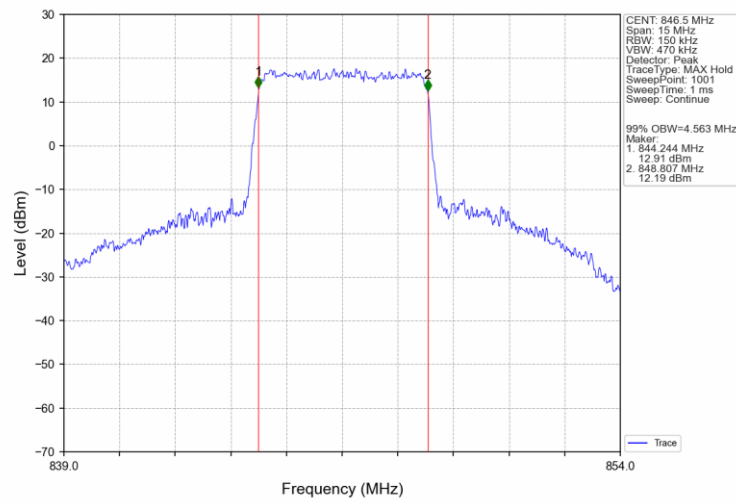
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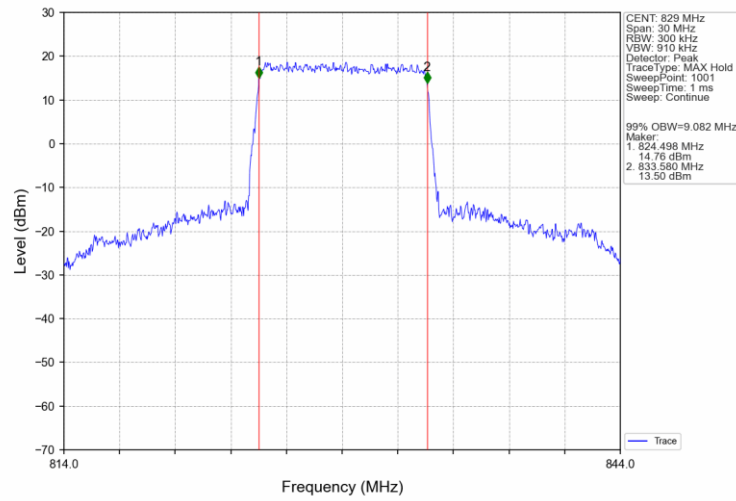
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



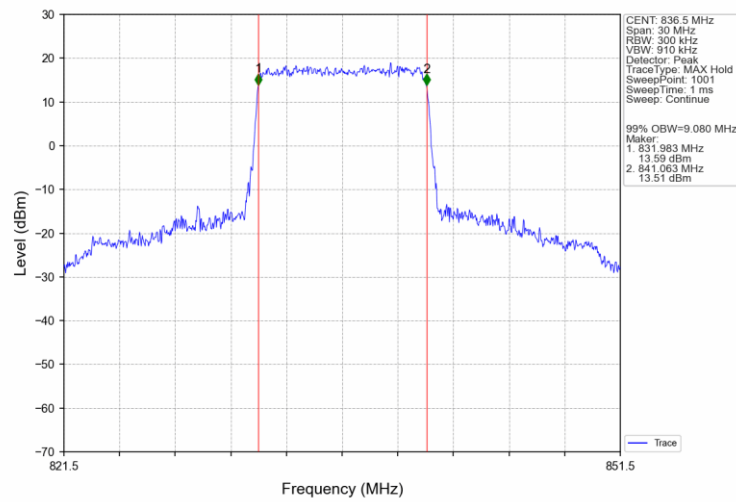
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



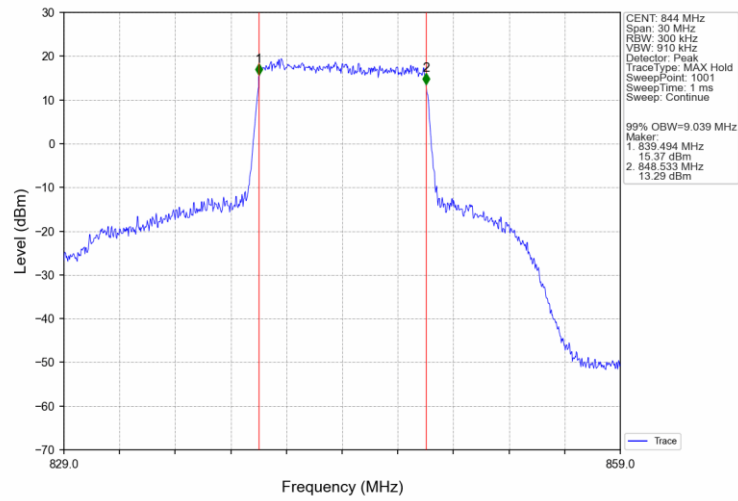
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



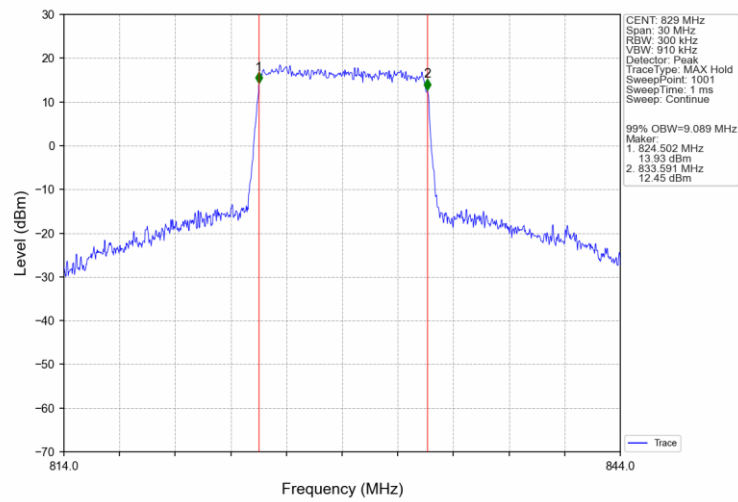
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



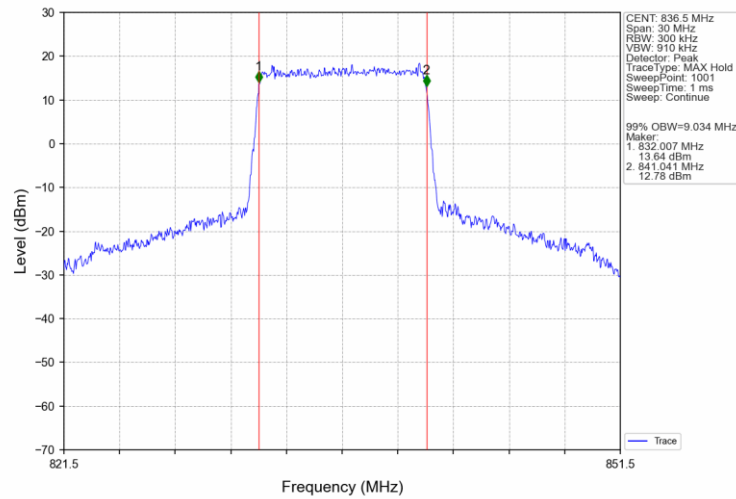
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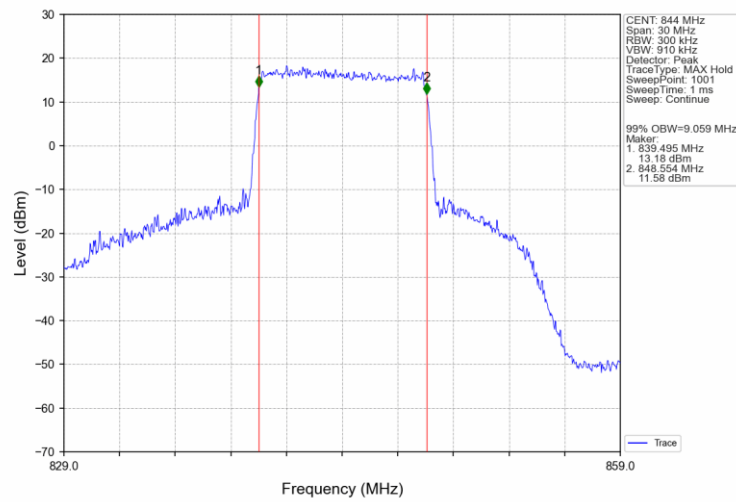
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

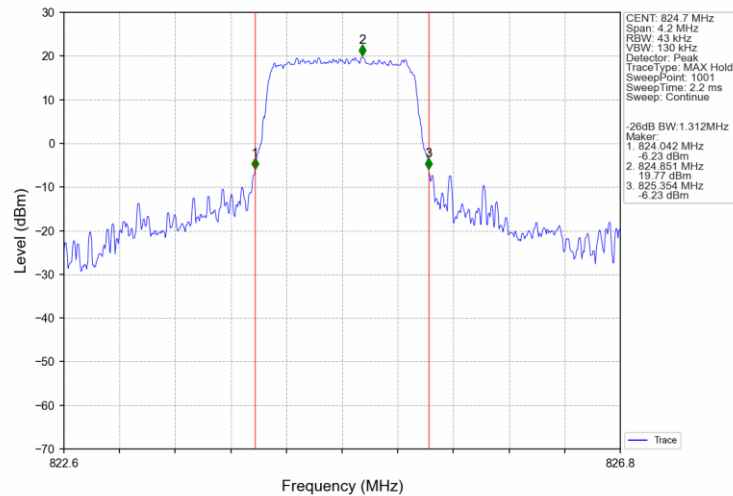


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

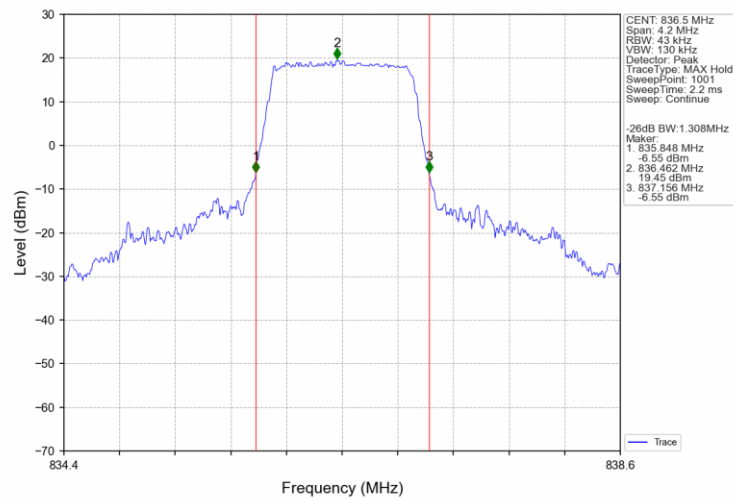


4.2.2 Band5_XDB

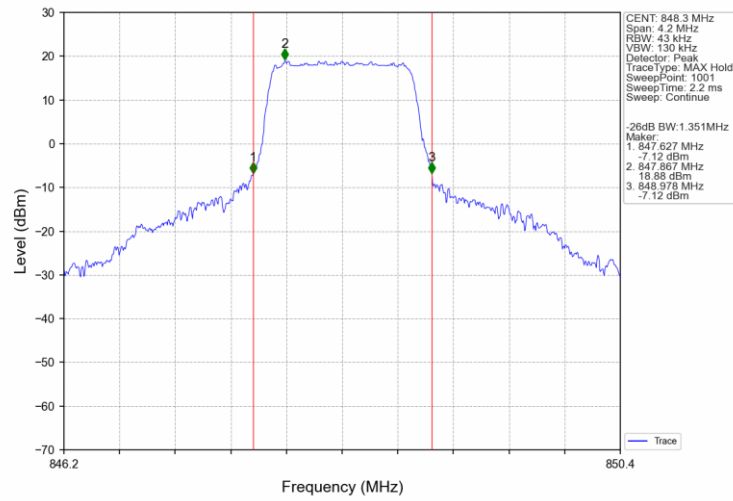
Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV



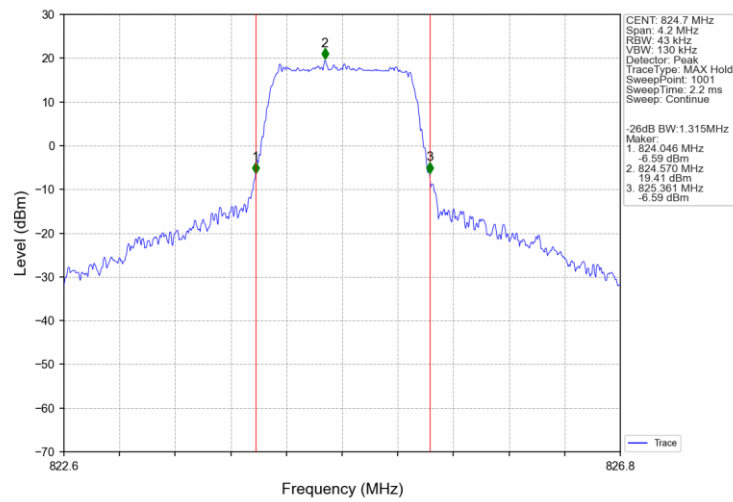
Band5 1.4MHz QPSK MCH 836.5MHz RB 6 0 NTNV



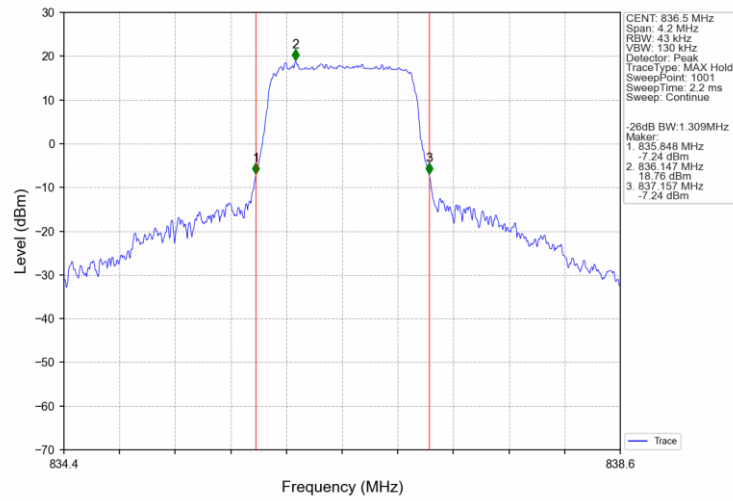
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



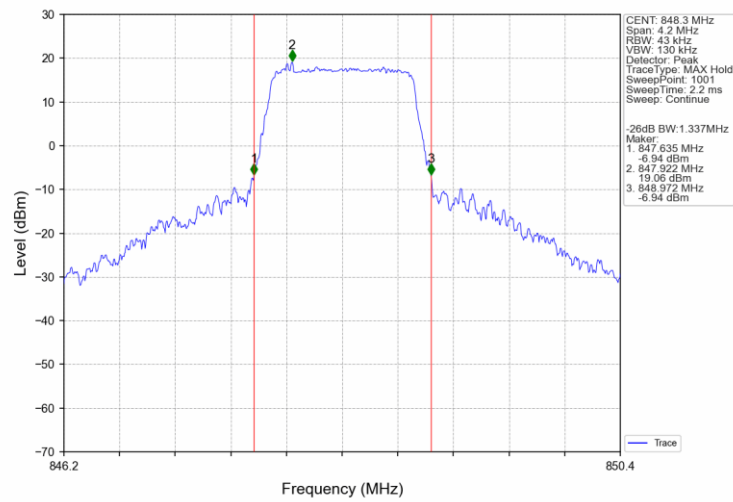
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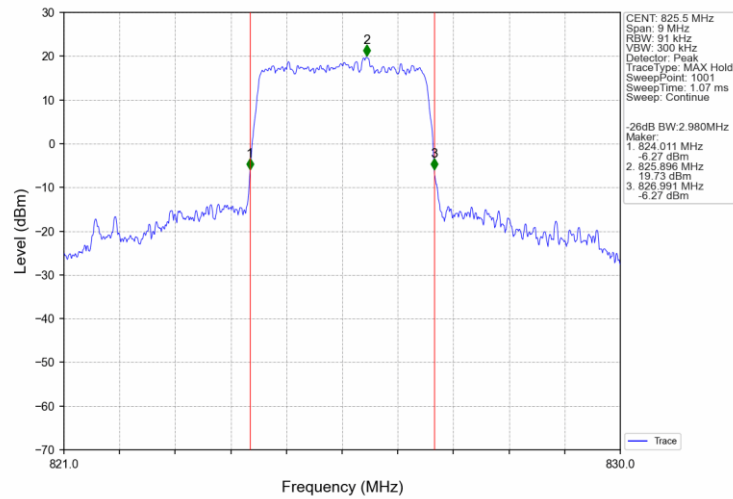
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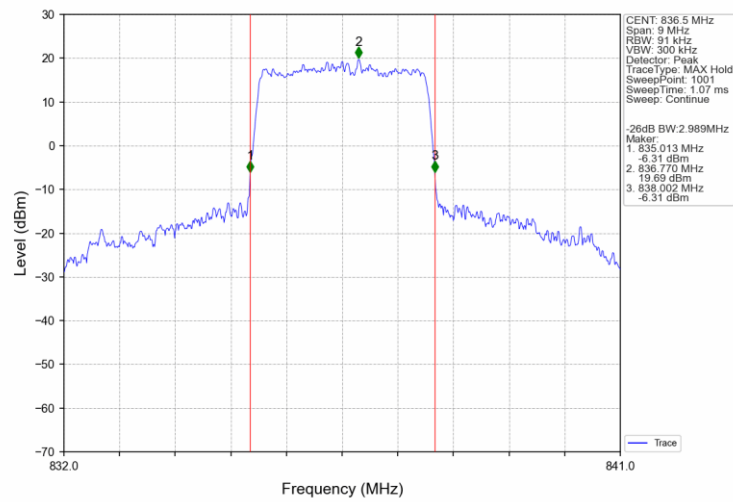
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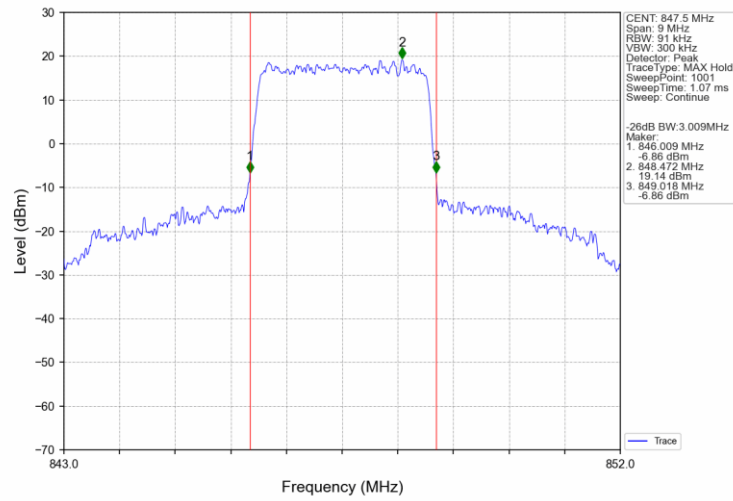
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



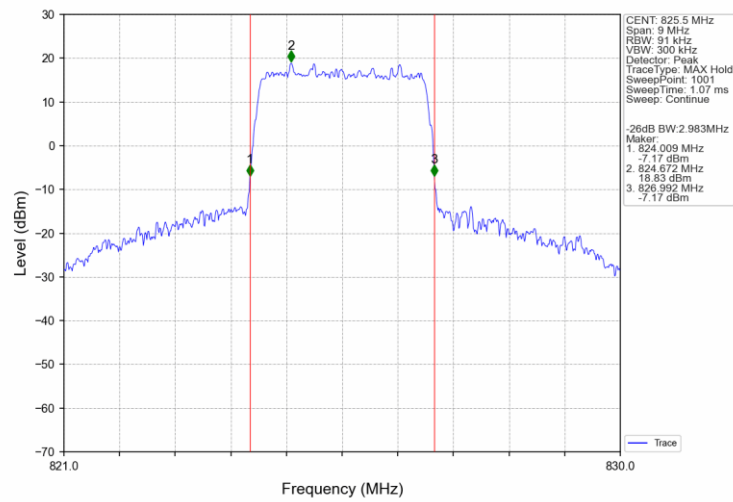
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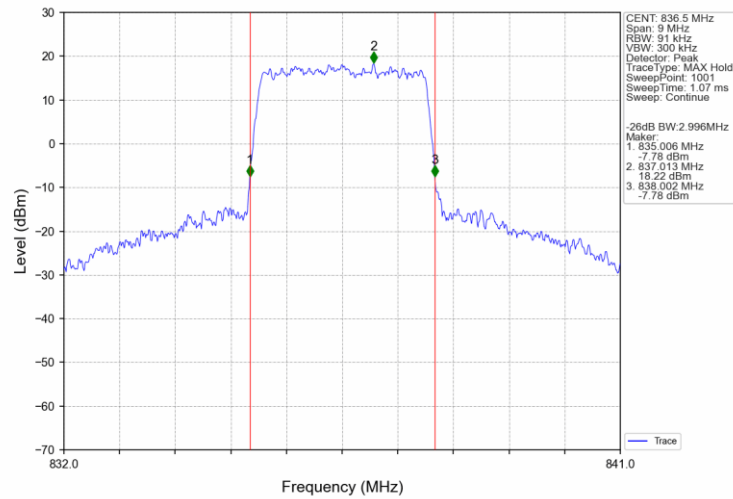
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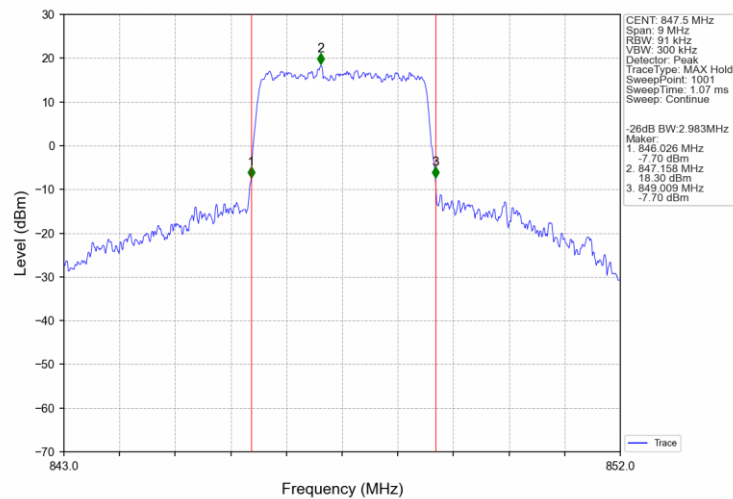
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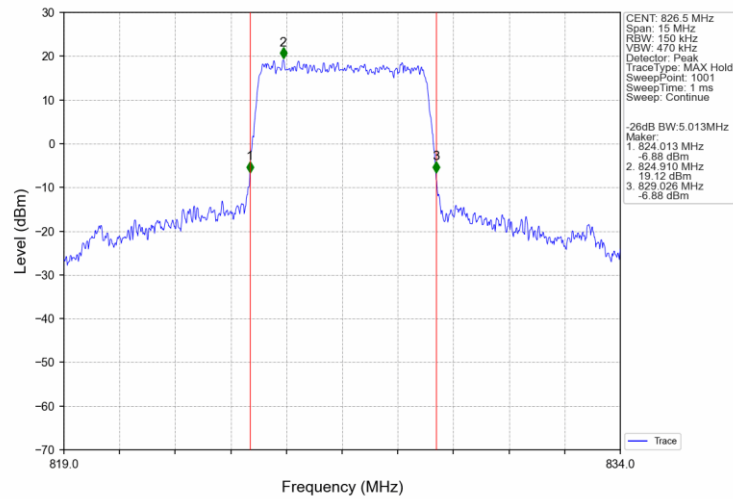
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



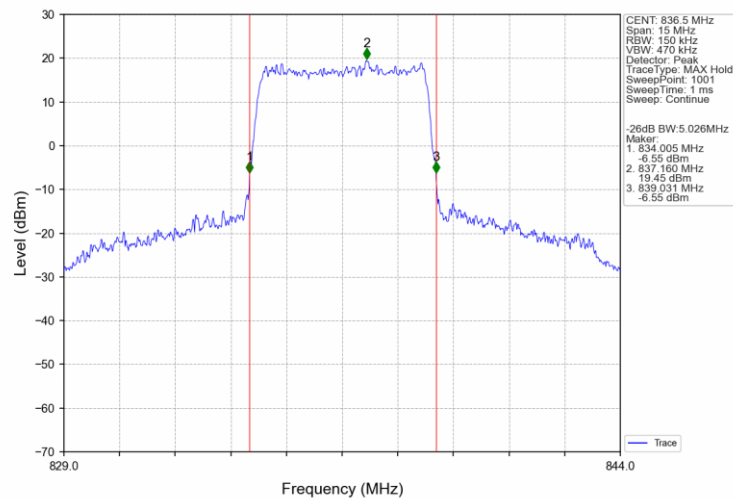
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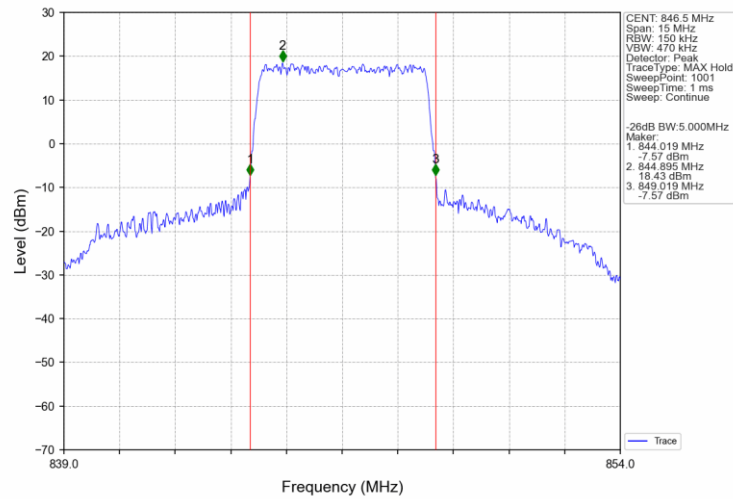
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



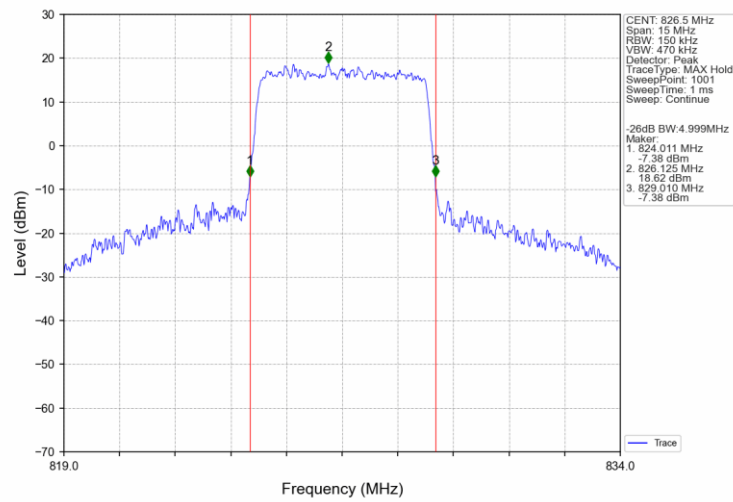
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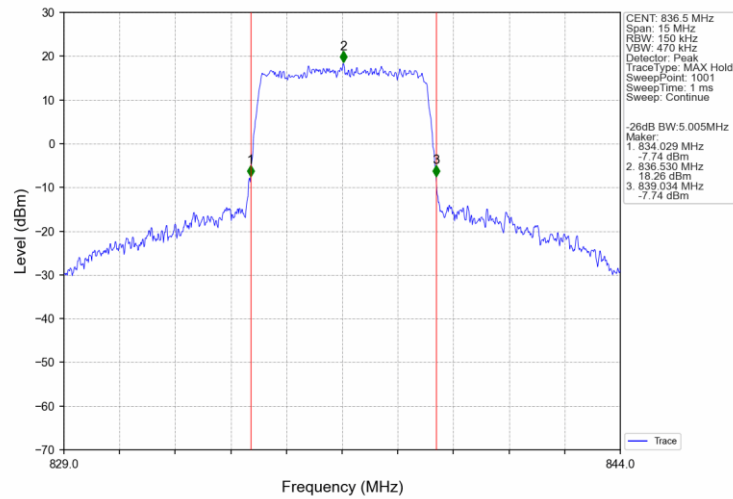
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



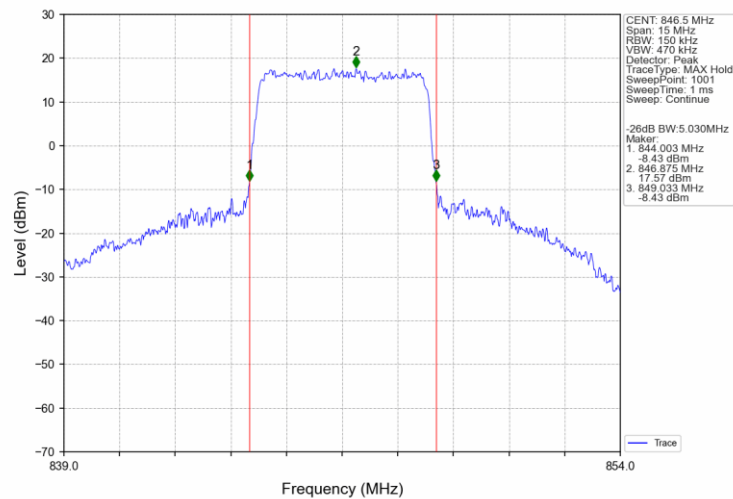
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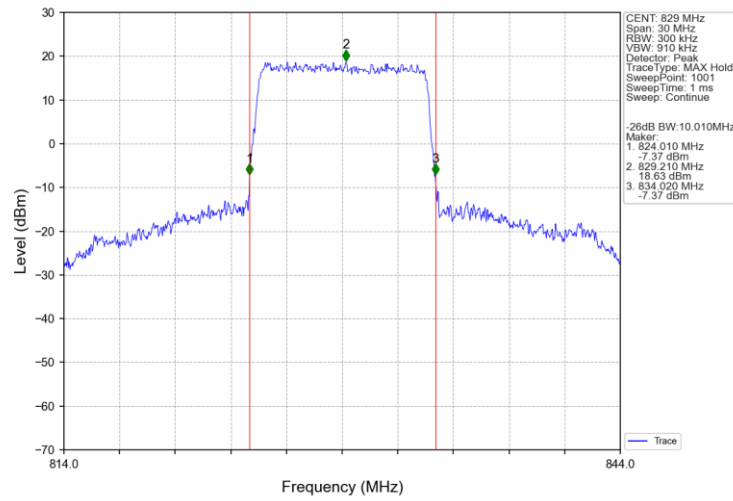
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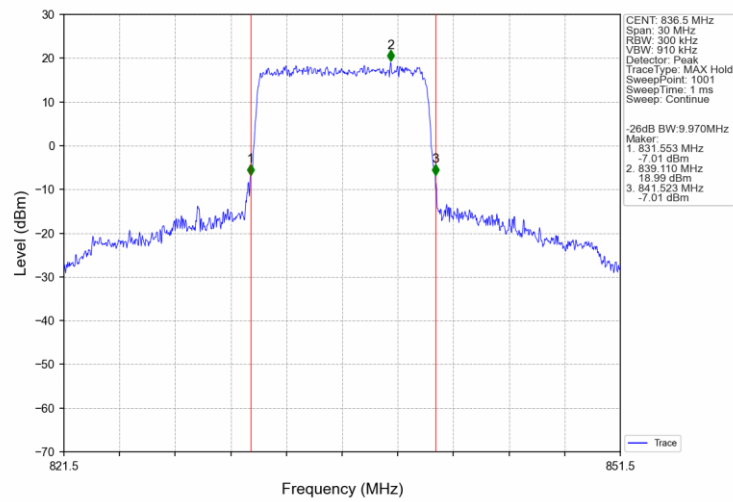
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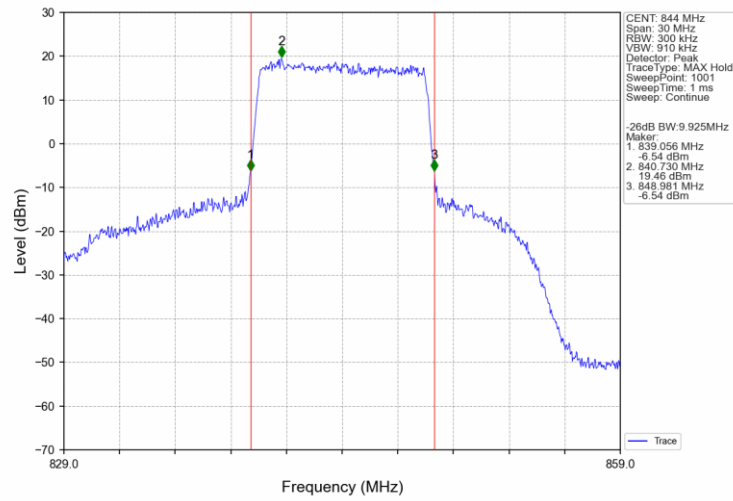
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



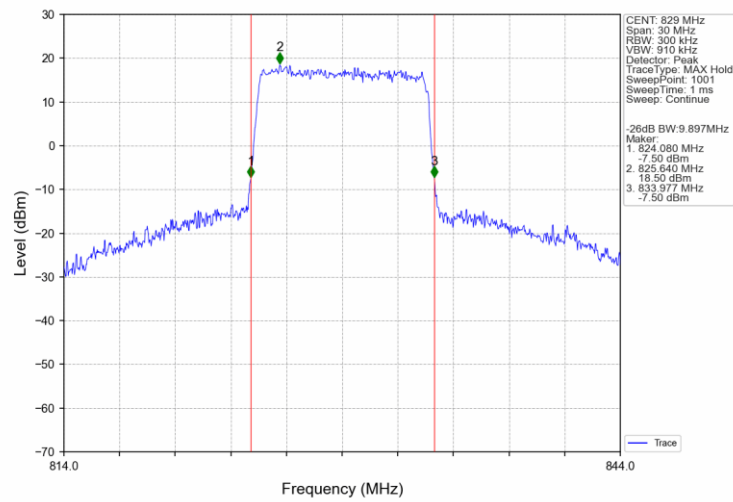
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



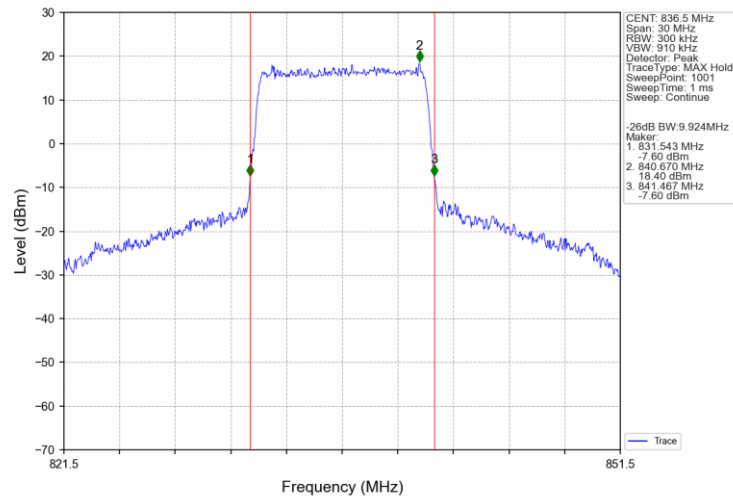
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



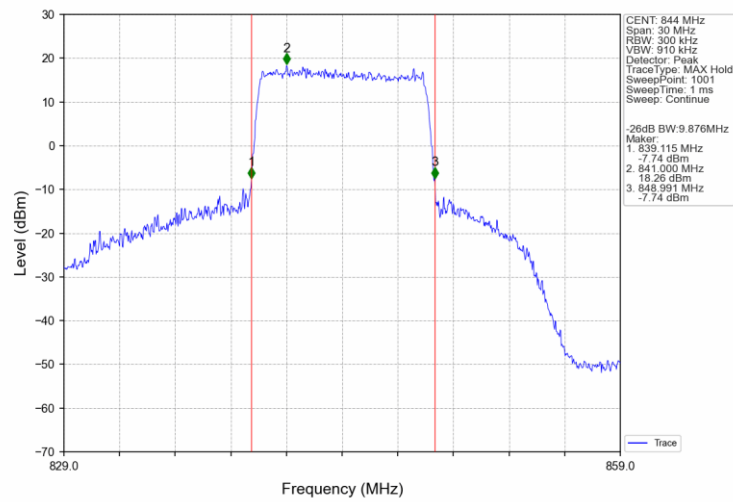
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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	4.62	<=13	Pass
	836.5	6	0	4.74	<=13	Pass
	848.3	6	0	4.24	<=13	Pass
16QAM	824.7	6	0	5.51	<=13	Pass
	836.5	6	0	5.62	<=13	Pass
	848.3	6	0	5.15	<=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	4.87	<=13	Pass
	836.5	15	0	4.98	<=13	Pass
	847.5	15	0	4.71	<=13	Pass
16QAM	825.5	15	0	5.74	<=13	Pass
	836.5	15	0	5.82	<=13	Pass
	847.5	15	0	5.56	<=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	5.20	<=13	Pass
	836.5	25	0	5.26	<=13	Pass
	846.5	25	0	5.12	<=13	Pass
16QAM	826.5	25	0	5.94	<=13	Pass
	836.5	25	0	5.99	<=13	Pass
	846.5	25	0	5.86	<=13	Pass

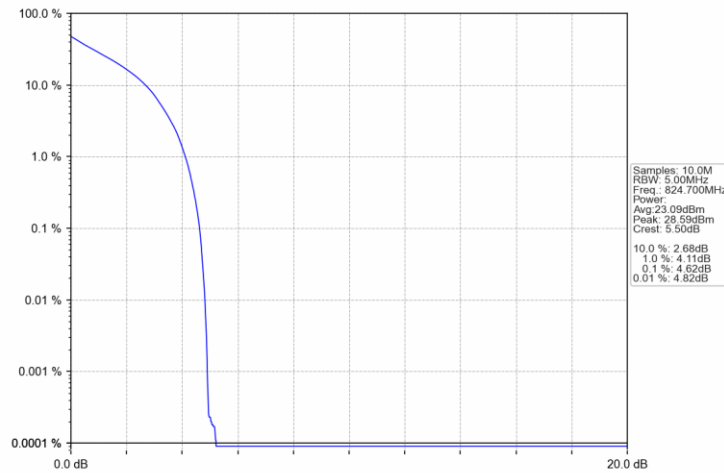
5.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.28	<=13	Pass
	836.5	50	0	5.20	<=13	Pass
	844	50	0	5.09	<=13	Pass
16QAM	829	50	0	6.06	<=13	Pass
	836.5	50	0	6.02	<=13	Pass
	844	50	0	5.84	<=13	Pass

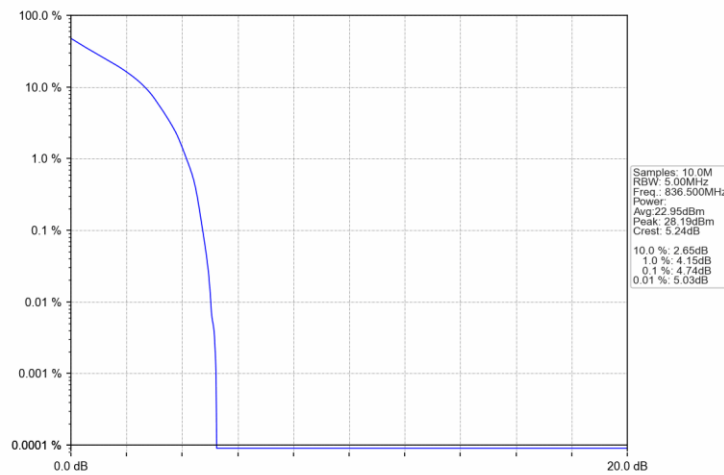
5.2 Test Graph

5.2.1 B5_1.4MHz

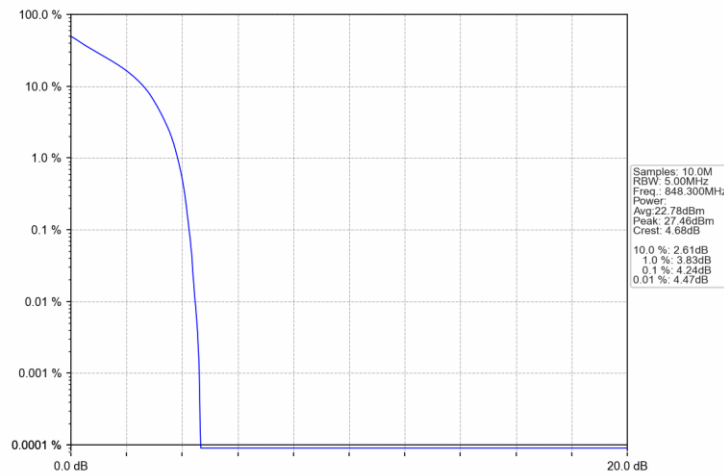
Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV



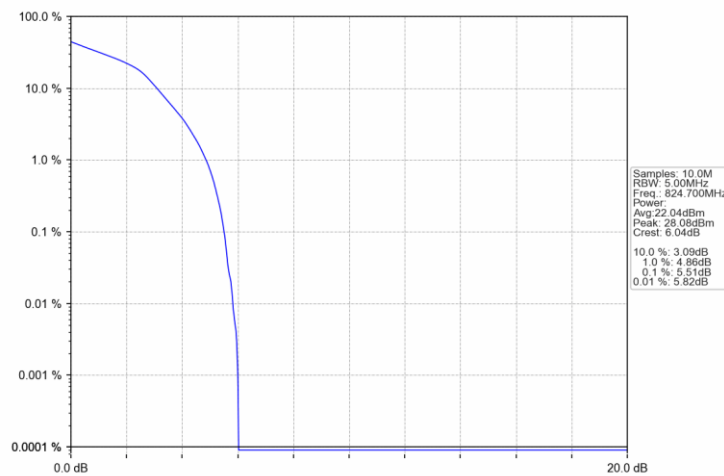
Band5 1.4MHz QPSK MCH 836.5MHz RB 6 0 NTNV



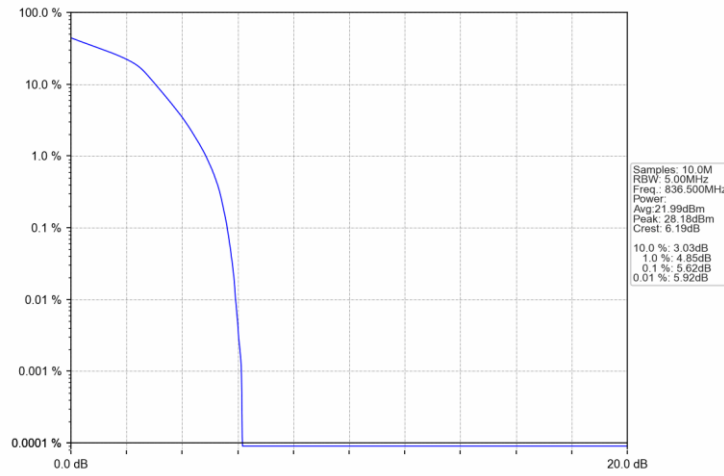
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



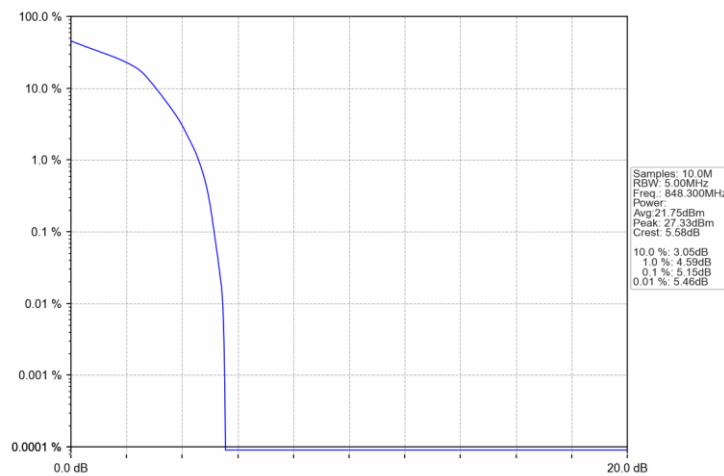
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

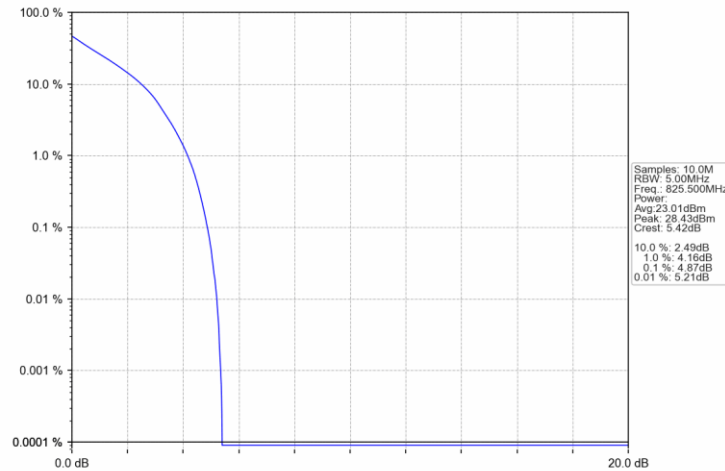


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

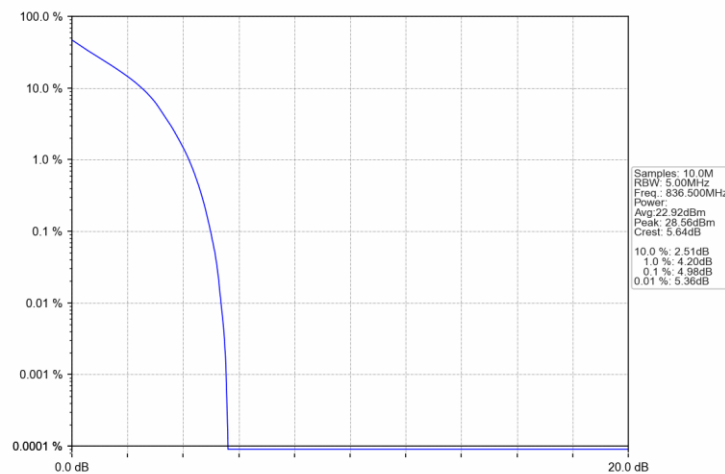


5.2.2 B5_3MHz

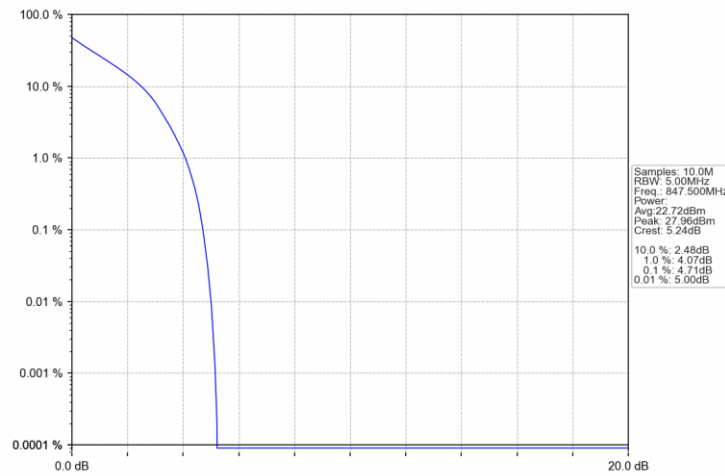
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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

