

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	23.59	0.20	21.64	<=38.45	Pass
			2	23.44	0.20	21.49	<=38.45	Pass
			5	23.29	0.20	21.34	<=38.45	Pass
		3	0	23.87	0.20	21.92	<=38.45	Pass
			2	23.91	0.20	21.96	<=38.45	Pass
			3	23.90	0.20	21.95	<=38.45	Pass
		6	0	22.86	0.20	20.91	<=38.45	Pass
	836.5	1	0	23.44	0.20	21.49	<=38.45	Pass
			2	23.39	0.20	21.44	<=38.45	Pass
			5	23.42	0.20	21.47	<=38.45	Pass
		3	0	23.95	0.20	22.00	<=38.45	Pass
			2	23.93	0.20	21.98	<=38.45	Pass
			3	23.90	0.20	21.95	<=38.45	Pass
		6	0	22.96	0.20	21.01	<=38.45	Pass
	848.3	1	0	23.30	0.20	21.35	<=38.45	Pass
			2	23.32	0.20	21.37	<=38.45	Pass
			5	23.32	0.20	21.37	<=38.45	Pass
		3	0	23.83	0.20	21.88	<=38.45	Pass
			2	23.88	0.20	21.93	<=38.45	Pass
			3	23.88	0.20	21.93	<=38.45	Pass
		6	0	22.87	0.20	20.92	<=38.45	Pass
16QAM	824.7	1	0	22.37	0.20	20.42	<=38.45	Pass
			2	22.39	0.20	20.44	<=38.45	Pass
			5	22.37	0.20	20.42	<=38.45	Pass
		3	0	22.86	0.20	20.91	<=38.45	Pass
			2	22.87	0.20	20.92	<=38.45	Pass
			3	22.87	0.20	20.92	<=38.45	Pass
		6	0	21.78	0.20	19.83	<=38.45	Pass
	836.5	1	0	22.63	0.20	20.68	<=38.45	Pass
			2	22.64	0.20	20.69	<=38.45	Pass
			5	22.62	0.20	20.67	<=38.45	Pass
		3	0	22.93	0.20	20.98	<=38.45	Pass
			2	22.90	0.20	20.95	<=38.45	Pass
			3	22.91	0.20	20.96	<=38.45	Pass
		6	0	21.98	0.20	20.03	<=38.45	Pass
	848.3	1	0	22.34	0.20	20.39	<=38.45	Pass
			2	22.31	0.20	20.36	<=38.45	Pass
			5	22.40	0.20	20.45	<=38.45	Pass
		3	0	22.82	0.20	20.87	<=38.45	Pass
			2	22.84	0.20	20.89	<=38.45	Pass
			3	22.84	0.20	20.89	<=38.45	Pass
		6	0	21.75	0.20	19.80	<=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	23.32	0.20	21.37	<=38.45	Pass
			7	23.29	0.20	21.34	<=38.45	Pass
			14	23.36	0.20	21.41	<=38.45	Pass
		8	0	22.83	0.20	20.88	<=38.45	Pass
			4	22.79	0.20	20.84	<=38.45	Pass
			7	22.84	0.20	20.89	<=38.45	Pass
		15	0	22.84	0.20	20.89	<=38.45	Pass
	836.5	1	0	23.43	0.20	21.48	<=38.45	Pass
			7	23.42	0.20	21.47	<=38.45	Pass
			14	23.39	0.20	21.44	<=38.45	Pass
		8	0	22.91	0.20	20.96	<=38.45	Pass
			4	22.94	0.20	20.99	<=38.45	Pass
			7	22.95	0.20	21.00	<=38.45	Pass
		15	0	22.96	0.20	21.01	<=38.45	Pass
	847.5	1	0	23.35	0.20	21.40	<=38.45	Pass
			7	23.34	0.20	21.39	<=38.45	Pass
			14	23.33	0.20	21.38	<=38.45	Pass
		8	0	22.75	0.20	20.80	<=38.45	Pass
			4	22.79	0.20	20.84	<=38.45	Pass
			7	22.78	0.20	20.83	<=38.45	Pass
		15	0	22.87	0.20	20.92	<=38.45	Pass
16QAM	825.5	1	0	22.41	0.20	20.46	<=38.45	Pass
			7	22.39	0.20	20.44	<=38.45	Pass
			14	22.41	0.20	20.46	<=38.45	Pass
		8	0	21.92	0.20	19.97	<=38.45	Pass
			4	21.89	0.20	19.94	<=38.45	Pass
			7	21.92	0.20	19.97	<=38.45	Pass
		15	0	21.90	0.20	19.95	<=38.45	Pass
	836.5	1	0	22.65	0.20	20.70	<=38.45	Pass
			7	22.66	0.20	20.71	<=38.45	Pass
			14	22.61	0.20	20.66	<=38.45	Pass
		8	0	21.89	0.20	19.94	<=38.45	Pass
			4	21.92	0.20	19.97	<=38.45	Pass
			7	21.92	0.20	19.97	<=38.45	Pass
		15	0	21.91	0.20	19.96	<=38.45	Pass
	847.5	1	0	22.86	0.20	20.91	<=38.45	Pass
			7	22.86	0.20	20.91	<=38.45	Pass
			14	22.79	0.20	20.84	<=38.45	Pass
		8	0	22.03	0.20	20.08	<=38.45	Pass
			4	22.01	0.20	20.06	<=38.45	Pass
			7	22.02	0.20	20.07	<=38.45	Pass
		15	0	21.92	0.20	19.97	<=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	23.40	0.20	21.45	<=38.45	Pass
			13	23.37	0.20	21.42	<=38.45	Pass
			24	23.46	0.20	21.51	<=38.45	Pass
		12	0	22.84	0.20	20.89	<=38.45	Pass
			6	22.85	0.20	20.90	<=38.45	Pass
			13	22.83	0.20	20.88	<=38.45	Pass
		25	0	22.86	0.20	20.91	<=38.45	Pass
	836.5	1	0	23.42	0.20	21.47	<=38.45	Pass
			13	23.41	0.20	21.46	<=38.45	Pass

16QAM	846.5	12	24	23.42	0.20	21.47	<=38.45	Pass
			0	22.97	0.20	21.02	<=38.45	Pass
			6	22.93	0.20	20.98	<=38.45	Pass
			13	22.94	0.20	20.99	<=38.45	Pass
		25	0	22.97	0.20	21.02	<=38.45	Pass
			0	23.50	0.20	21.55	<=38.45	Pass
			13	23.41	0.20	21.46	<=38.45	Pass
			24	23.52	0.20	21.57	<=38.45	Pass
		12	0	22.92	0.20	20.97	<=38.45	Pass
			6	22.83	0.20	20.88	<=38.45	Pass
			13	22.86	0.20	20.91	<=38.45	Pass
			0	22.89	0.20	20.94	<=38.45	Pass
	826.5	1	0	22.47	0.20	20.52	<=38.45	Pass
			13	22.42	0.20	20.47	<=38.45	Pass
			24	22.49	0.20	20.54	<=38.45	Pass
			0	21.83	0.20	19.88	<=38.45	Pass
		12	6	21.85	0.20	19.90	<=38.45	Pass
			13	21.77	0.20	19.82	<=38.45	Pass
			0	21.88	0.20	19.93	<=38.45	Pass
			0	22.72	0.20	20.77	<=38.45	Pass
		1	13	22.71	0.20	20.76	<=38.45	Pass
			24	22.69	0.20	20.74	<=38.45	Pass
			0	22.00	0.20	20.05	<=38.45	Pass
	836.5	12	6	21.97	0.20	20.02	<=38.45	Pass
			13	21.93	0.20	19.98	<=38.45	Pass
			0	21.97	0.20	20.02	<=38.45	Pass
			0	22.23	0.20	20.28	<=38.45	Pass
		1	13	22.16	0.20	20.21	<=38.45	Pass
			24	22.22	0.20	20.27	<=38.45	Pass
			0	21.94	0.20	19.99	<=38.45	Pass
			6	21.83	0.20	19.88	<=38.45	Pass
		12	13	21.84	0.20	19.89	<=38.45	Pass
			0	21.94	0.20	19.99	<=38.45	Pass
			0	21.94	0.20	19.99	<=38.45	Pass
			0	21.94	0.20	19.99	<=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	23.29	0.20	21.34	<=38.45	Pass
			25	23.43	0.20	21.48	<=38.45	Pass
			49	23.45	0.20	21.50	<=38.45	Pass
		25	0	22.90	0.20	20.95	<=38.45	Pass
			13	22.91	0.20	20.96	<=38.45	Pass
			25	22.86	0.20	20.91	<=38.45	Pass
		50	0	22.91	0.20	20.96	<=38.45	Pass
	836.5	1	0	23.41	0.20	21.46	<=38.45	Pass
			25	23.45	0.20	21.50	<=38.45	Pass
			49	23.36	0.20	21.41	<=38.45	Pass
		25	0	22.97	0.20	21.02	<=38.45	Pass
			13	22.95	0.20	21.00	<=38.45	Pass
			25	22.98	0.20	21.03	<=38.45	Pass
		50	0	23.02	0.20	21.07	<=38.45	Pass
	844	1	0	23.43	0.20	21.48	<=38.45	Pass
			25	23.39	0.20	21.44	<=38.45	Pass
			49	23.30	0.20	21.35	<=38.45	Pass
		25	0	22.99	0.20	21.04	<=38.45	Pass

16QAM	829	50	13	22.88	0.20	20.93	<=38.45	Pass
			25	22.79	0.20	20.84	<=38.45	Pass
			0	22.93	0.20	20.98	<=38.45	Pass
		1	0	22.35	0.20	20.40	<=38.45	Pass
			25	22.44	0.20	20.49	<=38.45	Pass
			49	22.45	0.20	20.50	<=38.45	Pass
		25	0	21.97	0.20	20.02	<=38.45	Pass
			13	22.01	0.20	20.06	<=38.45	Pass
			25	21.95	0.20	20.00	<=38.45	Pass
		50	0	21.91	0.20	19.96	<=38.45	Pass
	836.5	1	0	22.59	0.20	20.64	<=38.45	Pass
			25	22.64	0.20	20.69	<=38.45	Pass
			49	22.53	0.20	20.58	<=38.45	Pass
		25	0	22.01	0.20	20.06	<=38.45	Pass
			13	21.99	0.20	20.04	<=38.45	Pass
			25	22.03	0.20	20.08	<=38.45	Pass
		50	0	21.99	0.20	20.04	<=38.45	Pass
	844	1	0	22.93	0.20	20.98	<=38.45	Pass
			25	22.87	0.20	20.92	<=38.45	Pass
			49	22.79	0.20	20.84	<=38.45	Pass
		25	0	22.02	0.20	20.07	<=38.45	Pass
			13	21.92	0.20	19.97	<=38.45	Pass
			25	21.86	0.20	19.91	<=38.45	Pass
		50	0	21.92	0.20	19.97	<=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	-1.144	-0.0014	-2.5 to 2.5	Pass
					3.85	0.658	0.0008	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.030	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.489	-0.0030	-2.5 to 2.5	Pass
				0	3.85	5.021	0.0061	-2.5 to 2.5	Pass
				10	3.85	3.448	0.0042	-2.5 to 2.5	Pass
				30	3.85	4.563	0.0055	-2.5 to 2.5	Pass
				40	3.85	2.117	0.0026	-2.5 to 2.5	Pass
	836.5	6	0	20	3.85	7.167	0.0087	-2.5 to 2.5	Pass
					3.27	-2.146	-0.0026	-2.5 to 2.5	Pass
					3.85	1.917	0.0023	-2.5 to 2.5	Pass
				-30	4.43	-2.975	-0.0036	-2.5 to 2.5	Pass
					3.85	-0.629	-0.0008	-2.5 to 2.5	Pass
					3.85	2.818	0.0034	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.987	0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0003	-2.5 to 2.5	Pass
				10	3.85	1.974	0.0024	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0004	-2.5 to 2.5	Pass

	848.3	6	0	50	3.85	-0.272	-0.0003	-2.5 to 2.5	Pass
				20	3.27	-1.445	-0.0017	-2.5 to 2.5	Pass
					3.85	1.903	0.0022	-2.5 to 2.5	Pass
					4.43	-1.159	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.529	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-3.362	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-0.458	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.644	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
				30	3.85	0.744	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.601	0.0007	-2.5 to 2.5	Pass
				50	3.85	-2.847	-0.0034	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-1.674	-0.0020	-2.5 to 2.5	Pass
					3.85	3.991	0.0048	-2.5 to 2.5	Pass
					4.43	-2.847	-0.0035	-2.5 to 2.5	Pass
				-30	3.85	3.204	0.0039	-2.5 to 2.5	Pass
				-20	3.85	-1.917	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	0.558	0.0007	-2.5 to 2.5	Pass
				0	3.85	5.007	0.0061	-2.5 to 2.5	Pass
				10	3.85	0.744	0.0009	-2.5 to 2.5	Pass
				30	3.85	-2.389	-0.0029	-2.5 to 2.5	Pass
				40	3.85	9.813	0.0119	-2.5 to 2.5	Pass
				50	3.85	-2.475	-0.0030	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-1.259	-0.0015	-2.5 to 2.5	Pass
					3.85	2.961	0.0035	-2.5 to 2.5	Pass
					4.43	-1.602	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-4.964	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	3.290	0.0039	-2.5 to 2.5	Pass
				-10	3.85	-4.191	-0.0050	-2.5 to 2.5	Pass
				0	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				10	3.85	-2.518	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0009	-2.5 to 2.5	Pass
				40	3.85	1.731	0.0021	-2.5 to 2.5	Pass
				50	3.85	-4.206	-0.0050	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	1.287	0.0015	-2.5 to 2.5	Pass
					3.85	2.403	0.0028	-2.5 to 2.5	Pass
					4.43	-0.987	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	1.974	0.0023	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.901	0.0011	-2.5 to 2.5	Pass
				0	3.85	0.272	0.0003	-2.5 to 2.5	Pass
				10	3.85	2.074	0.0024	-2.5 to 2.5	Pass
				30	3.85	1.130	0.0013	-2.5 to 2.5	Pass
				40	3.85	2.675	0.0032	-2.5 to 2.5	Pass
				50	3.85	-3.147	-0.0037	-2.5 to 2.5	Pass

2.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	825.5	15	0	20	3.27	-2.775	-0.0034	-2.5 to 2.5	Pass
					3.85	-2.317	-0.0028	-2.5 to 2.5	Pass
					4.43	-0.873	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-2.804	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				-10	3.85	4.349	0.0053	-2.5 to 2.5	Pass
				0	3.85	0.429	0.0005	-2.5 to 2.5	Pass

				10	3.85	1.702	0.0021	-2.5 to 2.5	Pass
				30	3.85	0.916	0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.286	-0.0003	-2.5 to 2.5	Pass
				50	3.85	1.345	0.0016	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-2.589	-0.0031	-2.5 to 2.5	Pass
					3.85	-3.920	-0.0047	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-1.473	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	1.159	0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-1.159	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-5.994	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-6.294	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-2.818	-0.0034	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	2.060	0.0024	-2.5 to 2.5	Pass
					3.85	3.076	0.0036	-2.5 to 2.5	Pass
					4.43	0.358	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.715	0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.659	0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				0	3.85	6.752	0.0080	-2.5 to 2.5	Pass
				10	3.85	1.130	0.0013	-2.5 to 2.5	Pass
				30	3.85	3.562	0.0042	-2.5 to 2.5	Pass
				40	3.85	4.048	0.0048	-2.5 to 2.5	Pass
				50	3.85	2.875	0.0034	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	4.120	0.0050	-2.5 to 2.5	Pass
					3.85	-1.516	-0.0018	-2.5 to 2.5	Pass
					4.43	1.359	0.0016	-2.5 to 2.5	Pass
				-30	3.85	2.890	0.0035	-2.5 to 2.5	Pass
				-20	3.85	-0.443	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0006	-2.5 to 2.5	Pass
				0	3.85	0.501	0.0006	-2.5 to 2.5	Pass
				10	3.85	1.502	0.0018	-2.5 to 2.5	Pass
				30	3.85	1.845	0.0022	-2.5 to 2.5	Pass
				40	3.85	0.615	0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.329	-0.0004	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-3.419	-0.0041	-2.5 to 2.5	Pass
					3.85	-2.704	-0.0032	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-3.190	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	1.287	0.0015	-2.5 to 2.5	Pass
				0	3.85	-6.924	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-1.144	-0.0014	-2.5 to 2.5	Pass
				30	3.85	0.801	0.0010	-2.5 to 2.5	Pass
				40	3.85	-7.067	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-7.267	-0.0087	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	1.802	0.0021	-2.5 to 2.5	Pass
					3.85	-0.257	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.100	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-1.101	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	4.091	0.0048	-2.5 to 2.5	Pass
				0	3.85	-0.987	-0.0012	-2.5 to 2.5	Pass
				10	3.85	1.788	0.0021	-2.5 to 2.5	Pass
				30	3.85	-1.431	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-0.787	-0.0009	-2.5 to 2.5	Pass
				50	3.85	2.375	0.0028	-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	-0.701	-0.0008	-2.5 to 2.5	Pass
					3.85	0.601	0.0007	-2.5 to 2.5	Pass
					4.43	0.157	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.761	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-0.558	-0.0007	-2.5 to 2.5	Pass
				0	3.85	1.545	0.0019	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0044	-2.5 to 2.5	Pass
				30	3.85	3.991	0.0048	-2.5 to 2.5	Pass
				40	3.85	5.465	0.0066	-2.5 to 2.5	Pass
				50	3.85	-3.490	-0.0042	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	2.275	0.0027	-2.5 to 2.5	Pass
					3.85	1.945	0.0023	-2.5 to 2.5	Pass
					4.43	-0.415	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-3.877	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	2.031	0.0024	-2.5 to 2.5	Pass
				-10	3.85	-1.373	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.317	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-1.159	-0.0014	-2.5 to 2.5	Pass
				30	3.85	0.701	0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.345	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.401	-0.0005	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-1.574	-0.0019	-2.5 to 2.5	Pass
					3.85	2.217	0.0026	-2.5 to 2.5	Pass
					4.43	2.217	0.0026	-2.5 to 2.5	Pass
				-30	3.85	-0.601	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-1.216	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.616	0.0019	-2.5 to 2.5	Pass
				0	3.85	-1.302	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.359	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.186	0.0002	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-4.463	-0.0054	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	1.116	0.0014	-2.5 to 2.5	Pass
				-30	3.85	4.792	0.0058	-2.5 to 2.5	Pass
				-20	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-1.974	-0.0024	-2.5 to 2.5	Pass
				0	3.85	3.161	0.0038	-2.5 to 2.5	Pass
				10	3.85	1.087	0.0013	-2.5 to 2.5	Pass
				30	3.85	-3.247	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-1.602	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-1.330	-0.0016	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	0.443	0.0005	-2.5 to 2.5	Pass
					3.85	0.801	0.0010	-2.5 to 2.5	Pass
					4.43	0.129	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.688	0.0020	-2.5 to 2.5	Pass
				-10	3.85	2.089	0.0025	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0005	-2.5 to 2.5	Pass
				10	3.85	-2.775	-0.0033	-2.5 to 2.5	Pass

	846.5	25	0	30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-3.333	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-2.389	-0.0029	-2.5 to 2.5	Pass
				20	3.27	2.561	0.0030	-2.5 to 2.5	Pass
					3.85	0.987	0.0012	-2.5 to 2.5	Pass
					4.43	2.475	0.0029	-2.5 to 2.5	Pass
				-30	3.85	-2.747	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-3.319	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	2.389	0.0028	-2.5 to 2.5	Pass
				0	3.85	-3.161	-0.0037	-2.5 to 2.5	Pass
				10	3.85	1.988	0.0023	-2.5 to 2.5	Pass
				30	3.85	-1.345	-0.0016	-2.5 to 2.5	Pass
				40	3.85	2.975	0.0035	-2.5 to 2.5	Pass
				50	3.85	-1.874	-0.0022	-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	-2.432	-0.0029	-2.5 to 2.5	Pass
					3.85	-2.861	-0.0035	-2.5 to 2.5	Pass
					4.43	-2.131	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-2.260	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-2.675	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-2.804	-0.0034	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0005	-2.5 to 2.5	Pass
				10	3.85	-1.302	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-3.705	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-1.616	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-3.219	-0.0039	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-1.760	-0.0021	-2.5 to 2.5	Pass
					3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
					4.43	0.100	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.615	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-1.931	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-1.473	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-2.289	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-2.031	-0.0024	-2.5 to 2.5	Pass
				30	3.85	1.373	0.0016	-2.5 to 2.5	Pass
				40	3.85	1.330	0.0016	-2.5 to 2.5	Pass
				50	3.85	-4.005	-0.0048	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-3.076	-0.0036	-2.5 to 2.5	Pass
					3.85	1.788	0.0021	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-3.648	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-2.847	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-2.689	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-1.173	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-1.245	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-2.804	-0.0033	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-2.317	-0.0028	-2.5 to 2.5	Pass
					3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.916	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.273	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-1.459	-0.0018	-2.5 to 2.5	Pass

				-10	3.85	-1.688	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-1.502	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.572	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.930	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-1.073	-0.0013	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-0.958	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.760	-0.0021	-2.5 to 2.5	Pass
					4.43	-1.860	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-4.592	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-1.416	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-1.917	-0.0023	-2.5 to 2.5	Pass
				0	3.85	1.674	0.0020	-2.5 to 2.5	Pass
				10	3.85	-1.302	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-1.760	-0.0021	-2.5 to 2.5	Pass
				40	3.85	0.730	0.0009	-2.5 to 2.5	Pass
				50	3.85	-3.920	-0.0047	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-0.529	-0.0006	-2.5 to 2.5	Pass
					3.85	0.601	0.0007	-2.5 to 2.5	Pass
					4.43	-1.345	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-2.689	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-0.658	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-2.890	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-1.674	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.916	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.774	-0.0021	-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	

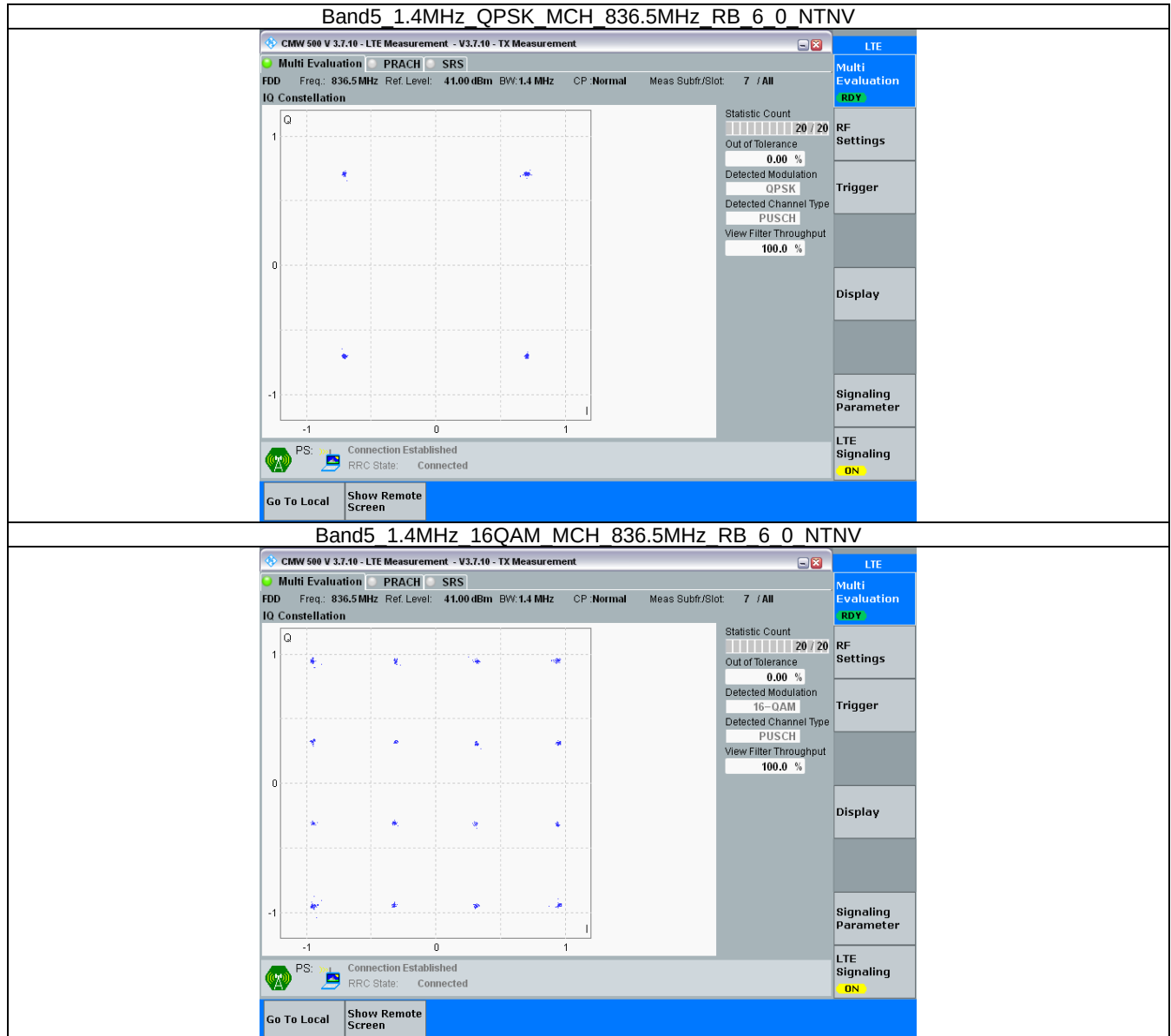
QPSK	836.5	25	0	Refer To Test Graph	Pass
16QAM	836.5	25	0	Refer To Test Graph	Pass

3.1.4 B5_10MHz

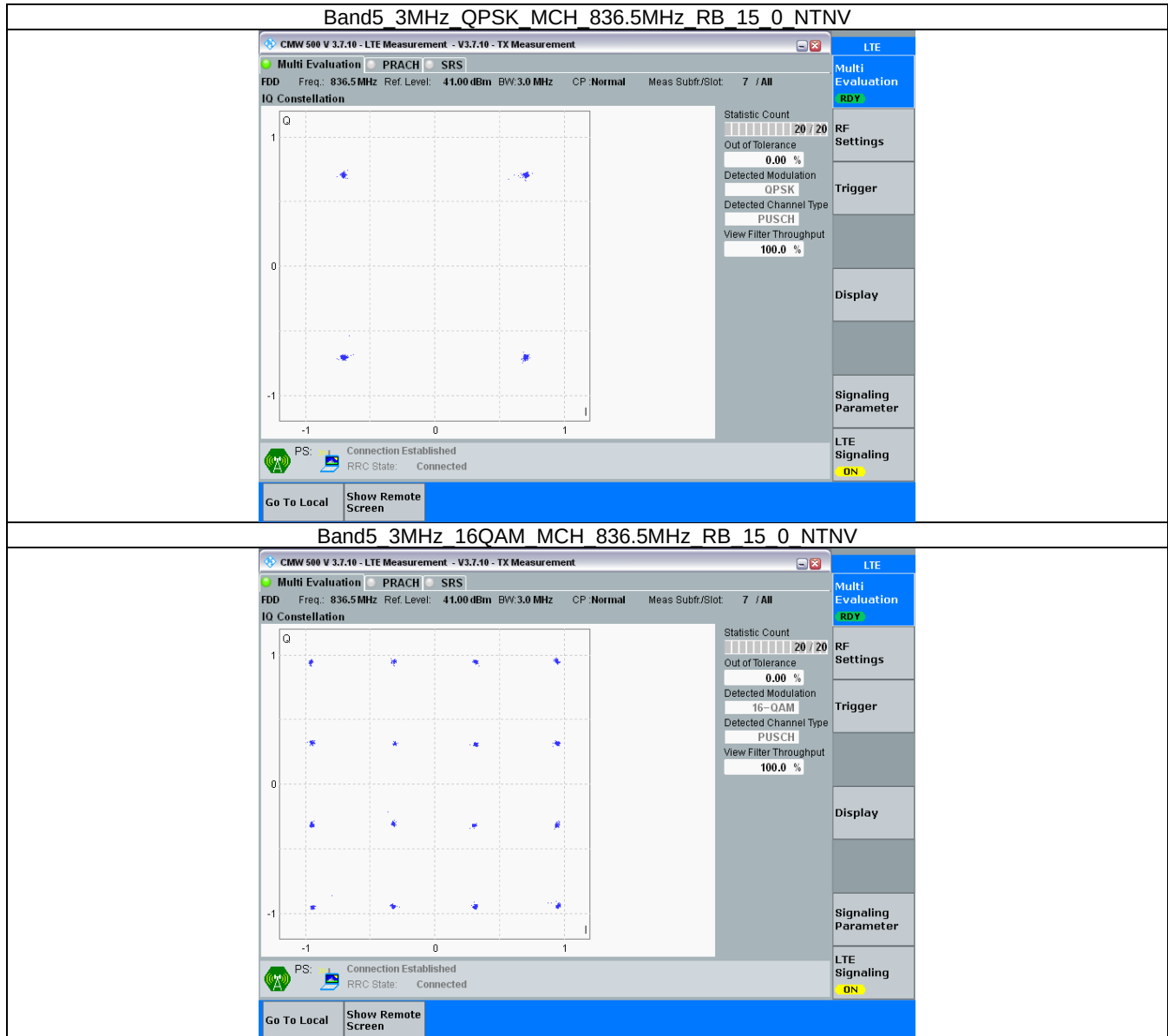
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

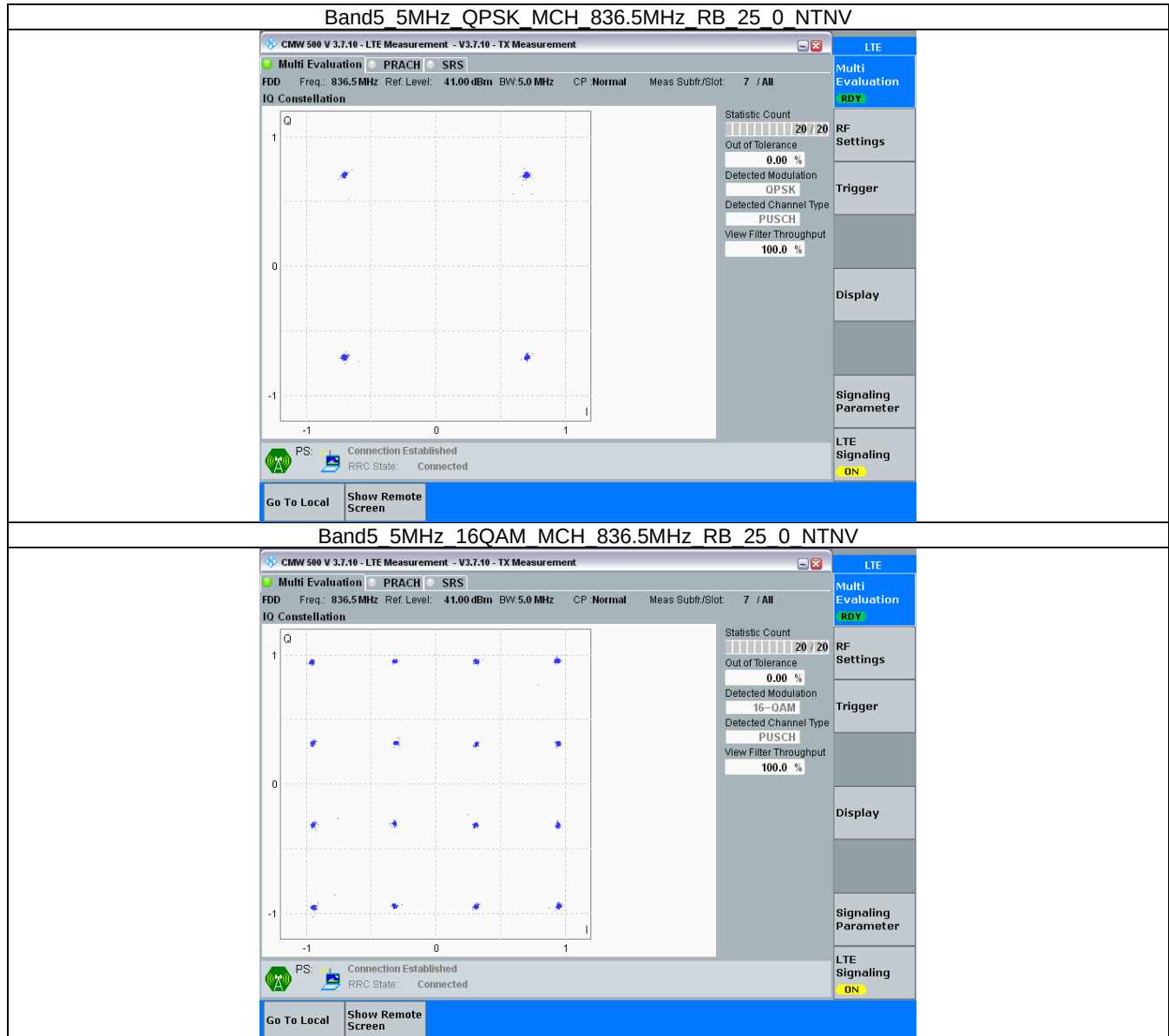
3.2.1 B5_1.4MHz



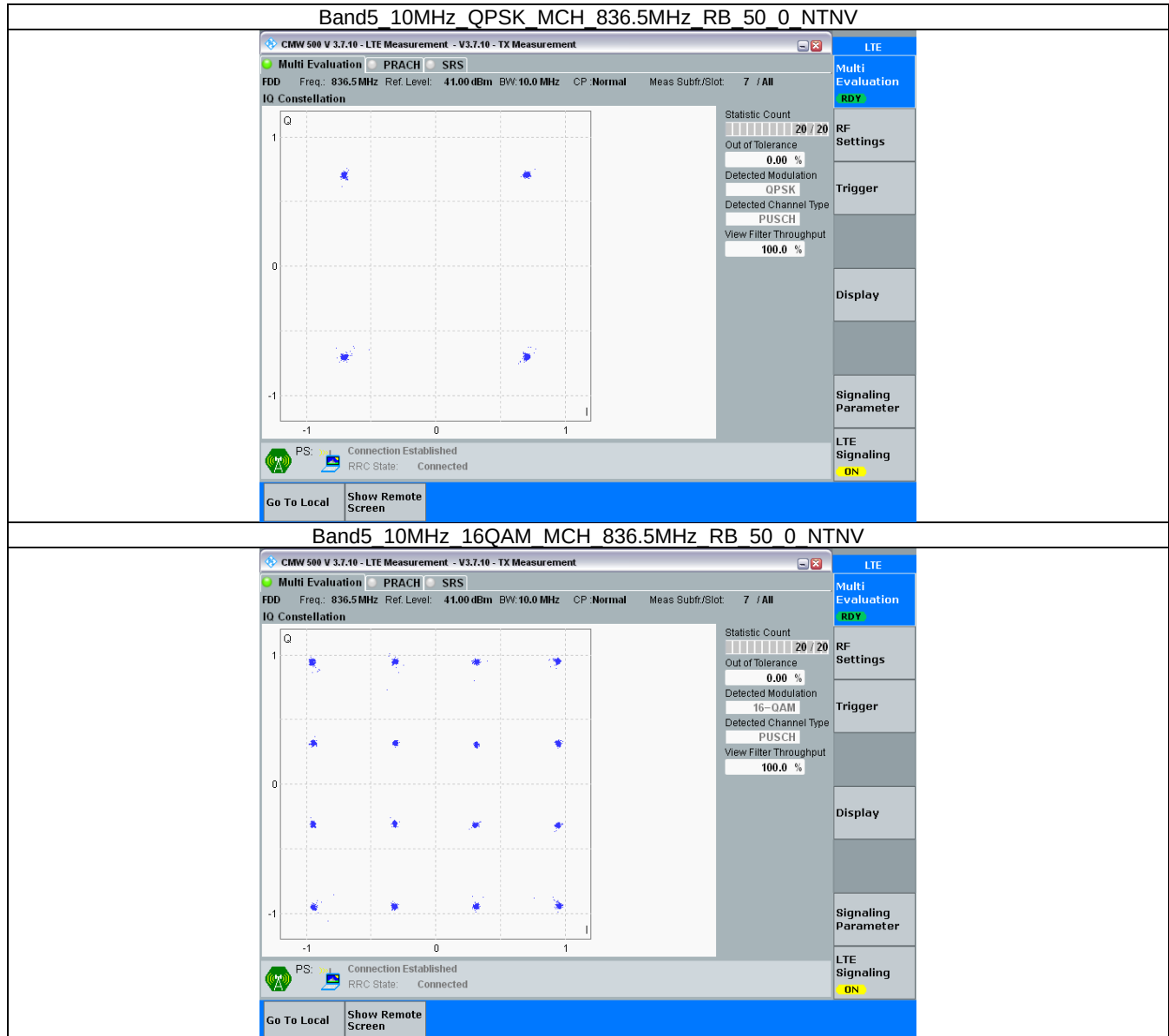
3.2.2 B5_3MHz



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	1.119	/	Pass
		836.5	6	0	1.109	/	Pass
		848.3	6	0	1.105	/	Pass
	16QAM	824.7	6	0	1.112	/	Pass
		836.5	6	0	1.111	/	Pass
		848.3	6	0	1.116	/	Pass
3	QPSK	825.5	15	0	2.730	/	Pass
		836.5	15	0	2.725	/	Pass
		847.5	15	0	2.736	/	Pass
	16QAM	825.5	15	0	2.730	/	Pass
		836.5	15	0	2.731	/	Pass
		847.5	15	0	2.742	/	Pass
5	QPSK	826.5	25	0	4.539	/	Pass
		836.5	25	0	4.547	/	Pass
		846.5	25	0	4.568	/	Pass
	16QAM	826.5	25	0	4.548	/	Pass
		836.5	25	0	4.549	/	Pass
		846.5	25	0	4.536	/	Pass
10	QPSK	829	50	0	9.055	/	Pass
		836.5	50	0	9.066	/	Pass
		844	50	0	9.052	/	Pass
	16QAM	829	50	0	9.061	/	Pass
		836.5	50	0	9.060	/	Pass
		844	50	0	9.020	/	Pass

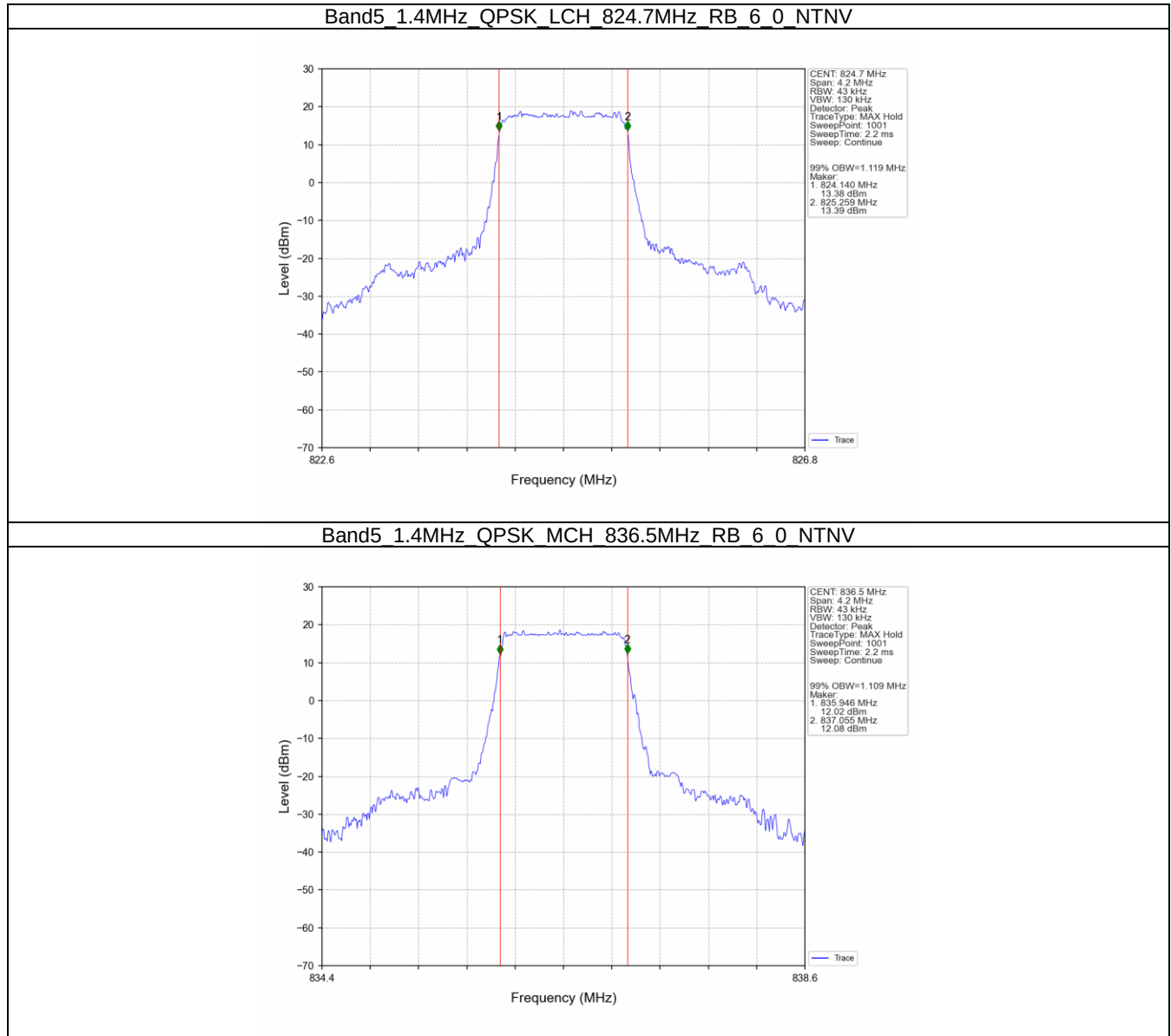
4.1.2 Band5_XDB

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	1.319	/	Pass
		836.5	6	0	1.322	/	Pass
		848.3	6	0	1.322	/	Pass
	16QAM	824.7	6	0	1.330	/	Pass
		836.5	6	0	1.306	/	Pass
		848.3	6	0	1.328	/	Pass
3	QPSK	825.5	15	0	3.020	/	Pass
		836.5	15	0	2.992	/	Pass
		847.5	15	0	3.013	/	Pass
	16QAM	825.5	15	0	3.010	/	Pass
		836.5	15	0	3.012	/	Pass
		847.5	15	0	3.035	/	Pass
5	QPSK	826.5	25	0	5.099	/	Pass
		836.5	25	0	5.042	/	Pass
		846.5	25	0	5.100	/	Pass

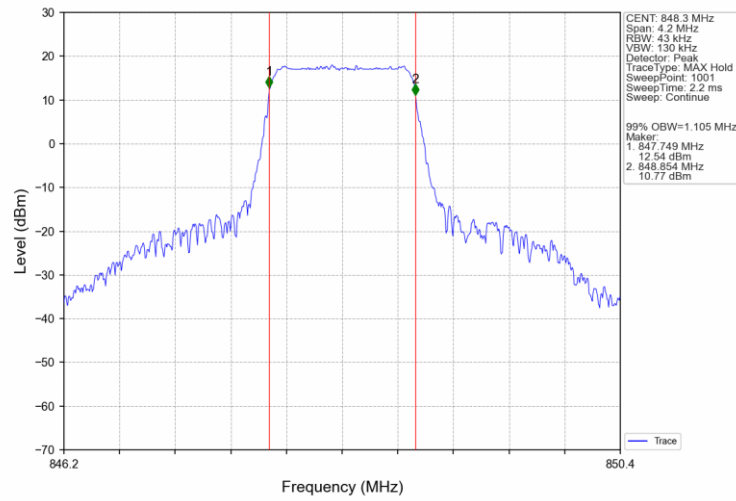
10	16QAM	826.5	25	0	5.092	/	Pass
		836.5	25	0	5.056	/	Pass
		846.5	25	0	5.029	/	Pass
	QPSK	829	50	0	9.954	/	Pass
		836.5	50	0	9.987	/	Pass
		844	50	0	10.045	/	Pass
	16QAM	829	50	0	9.909	/	Pass
		836.5	50	0	9.997	/	Pass
		844	50	0	9.921	/	Pass

4.2 Test Graph

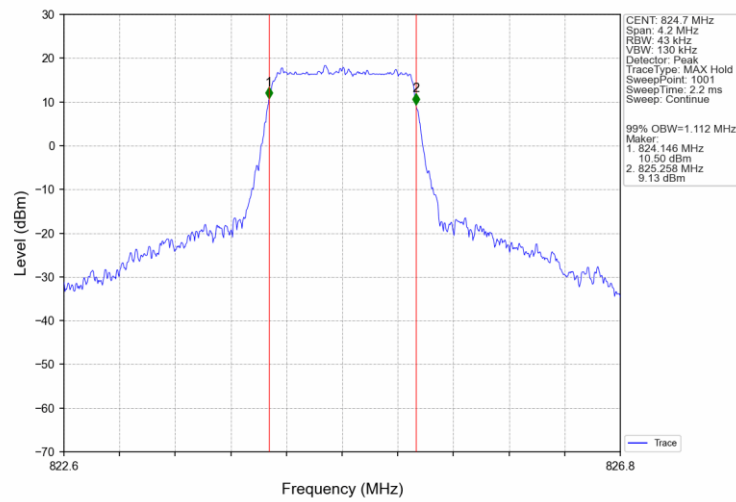
4.2.1 Band5_OBW



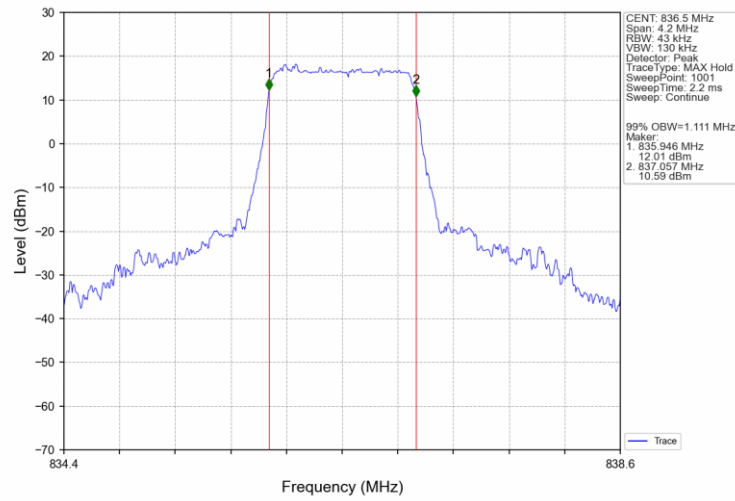
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



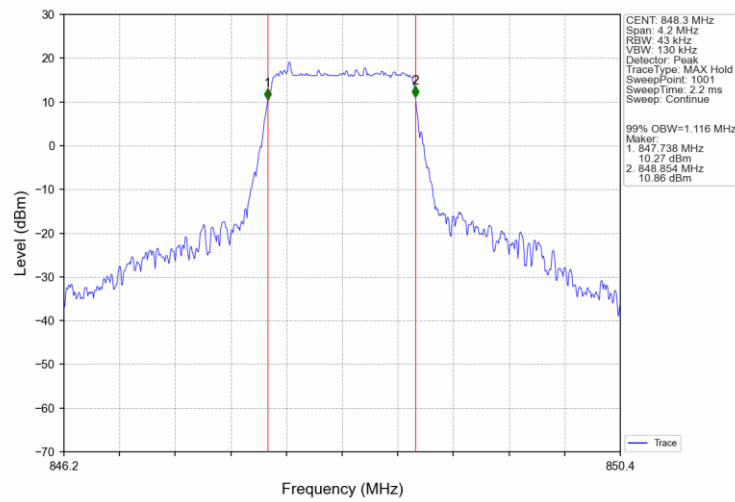
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



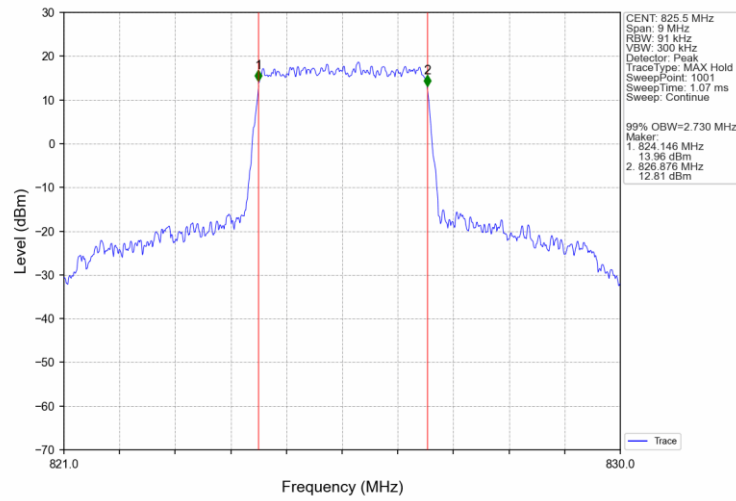
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



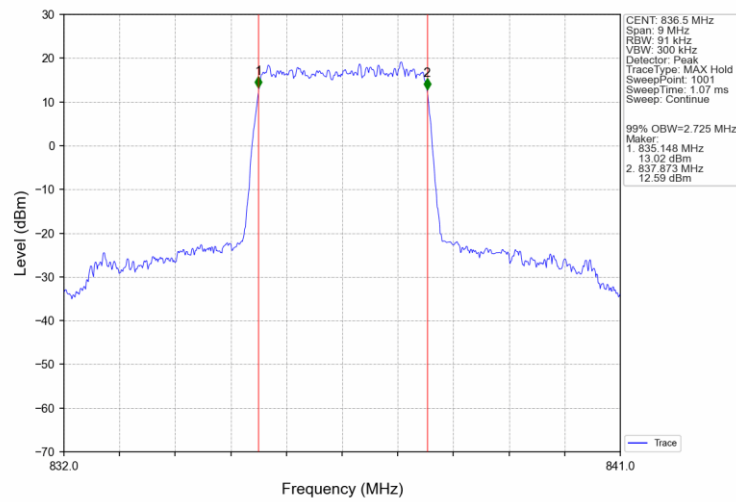
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



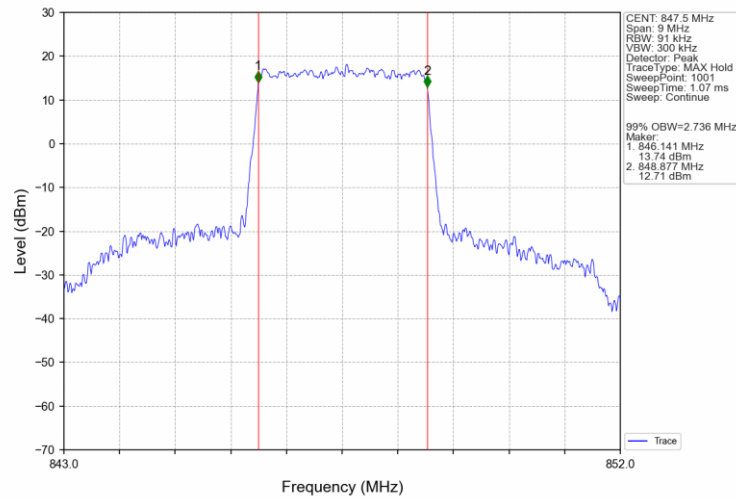
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



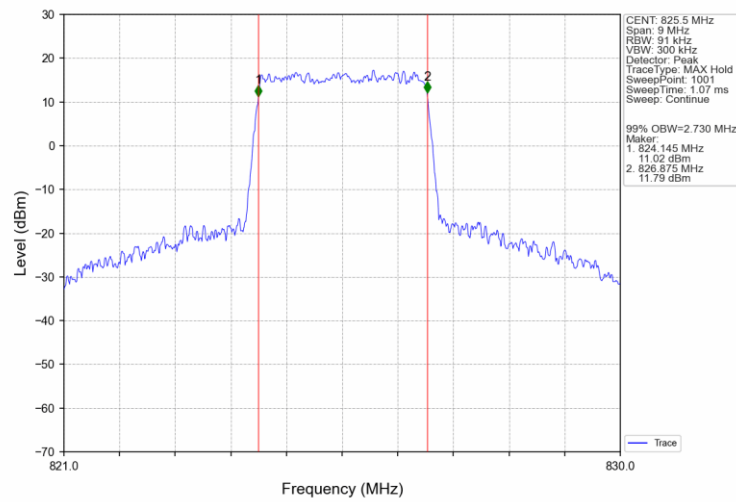
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



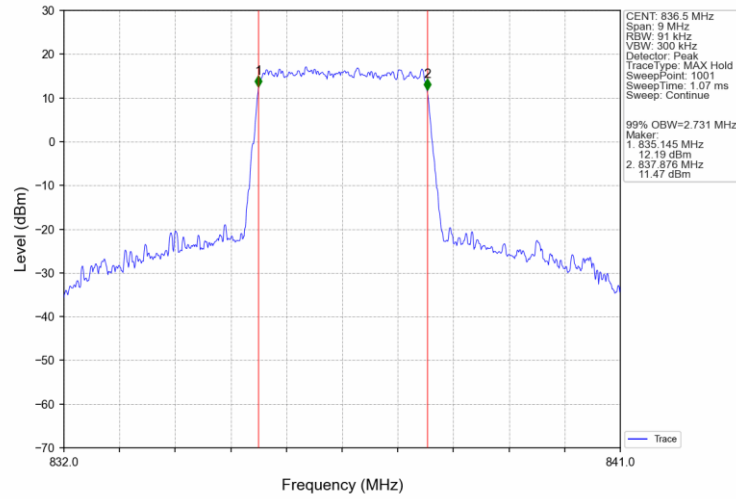
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



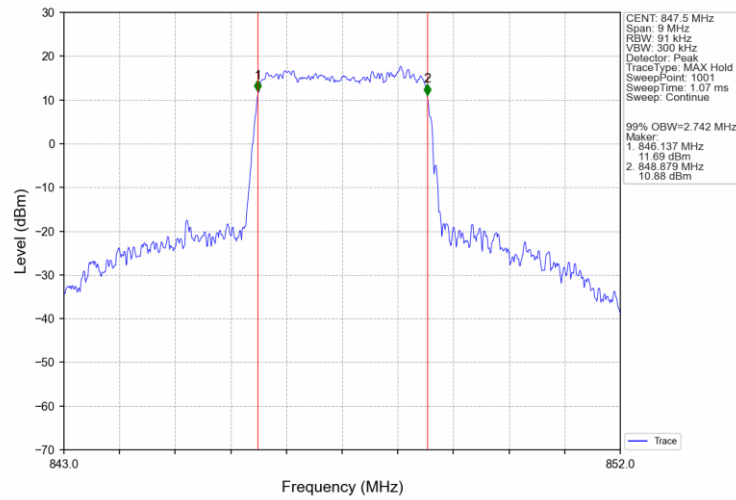
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



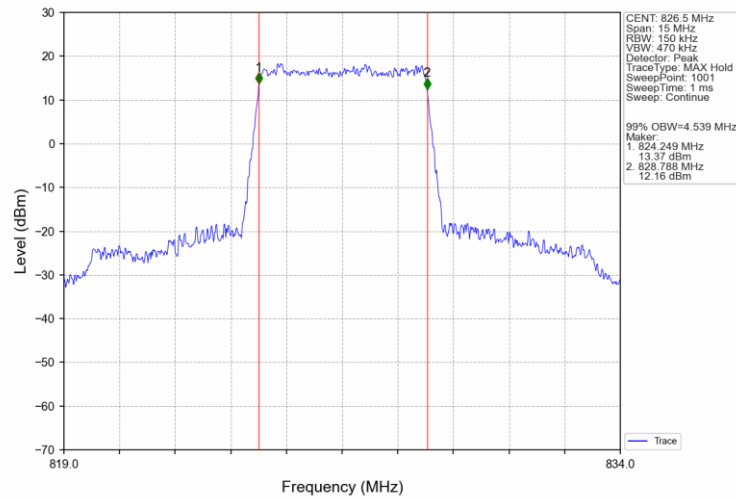
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



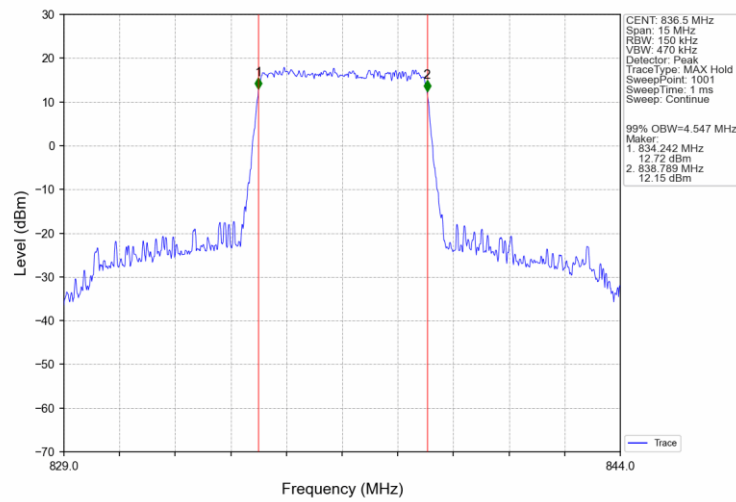
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



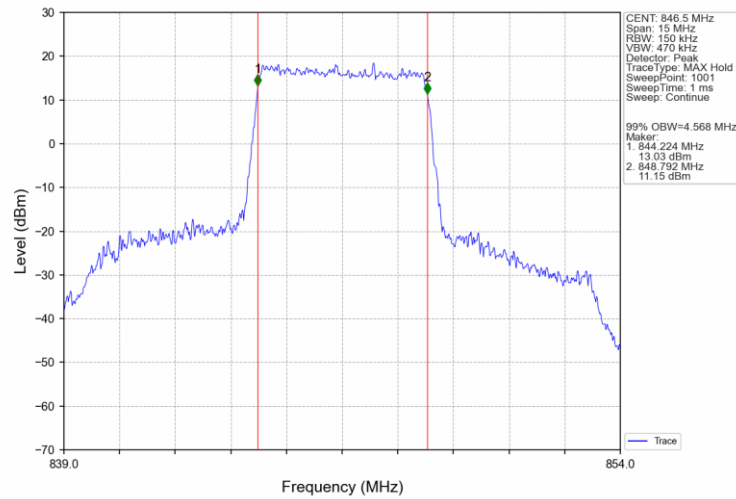
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



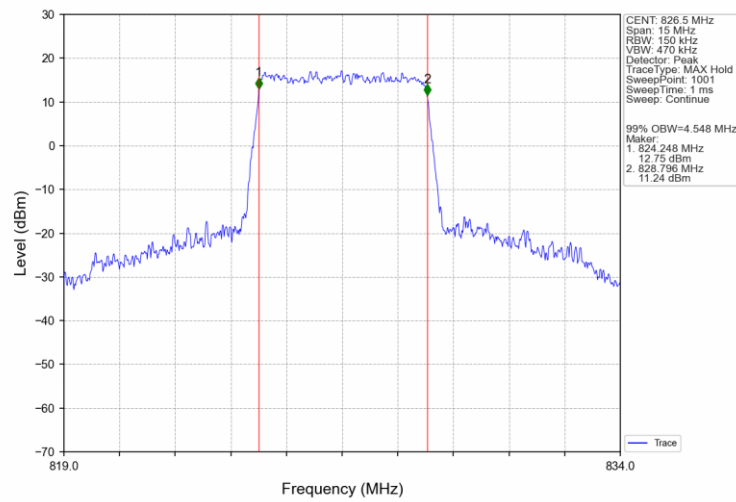
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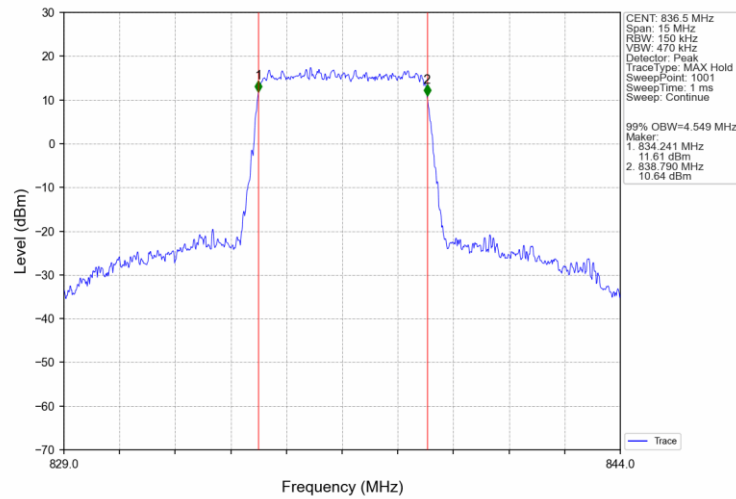
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



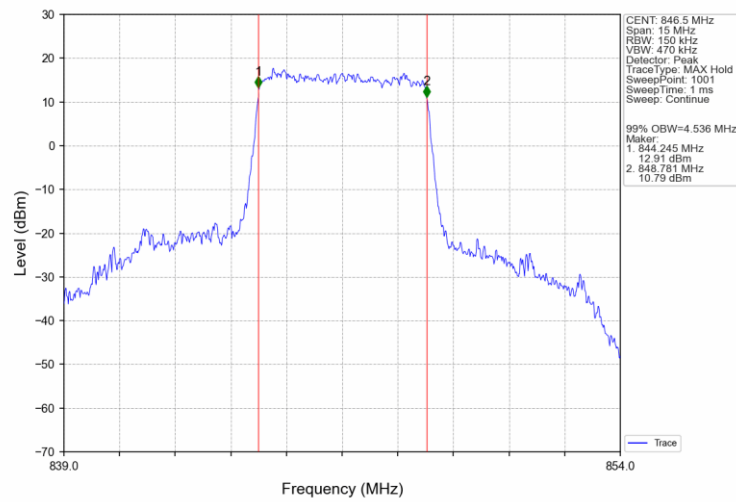
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



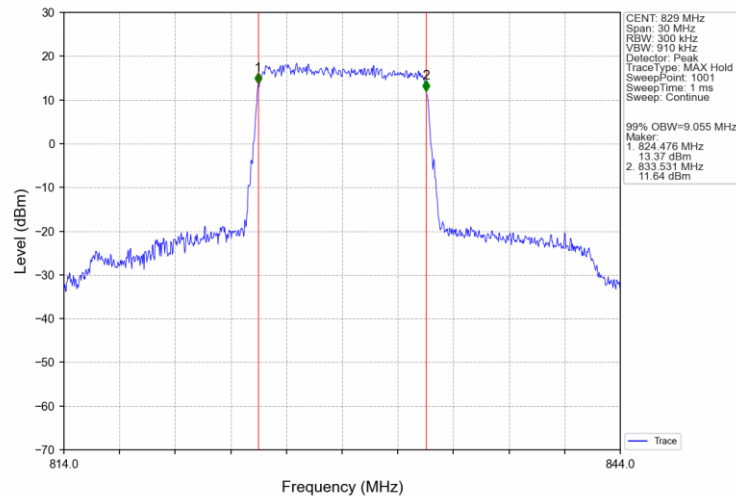
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



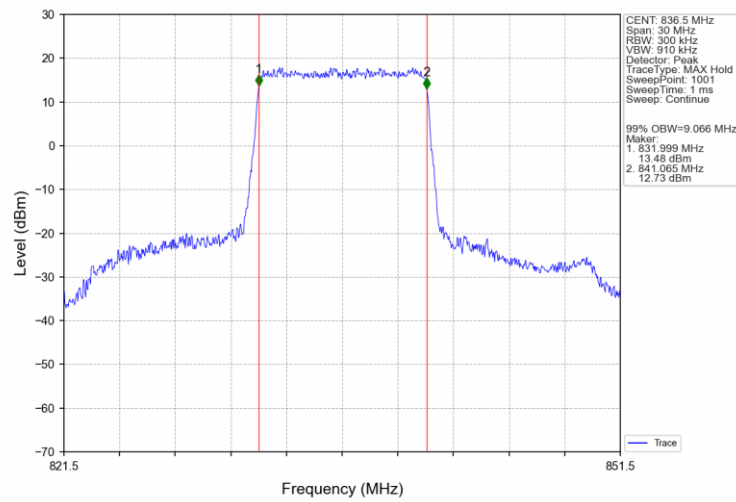
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



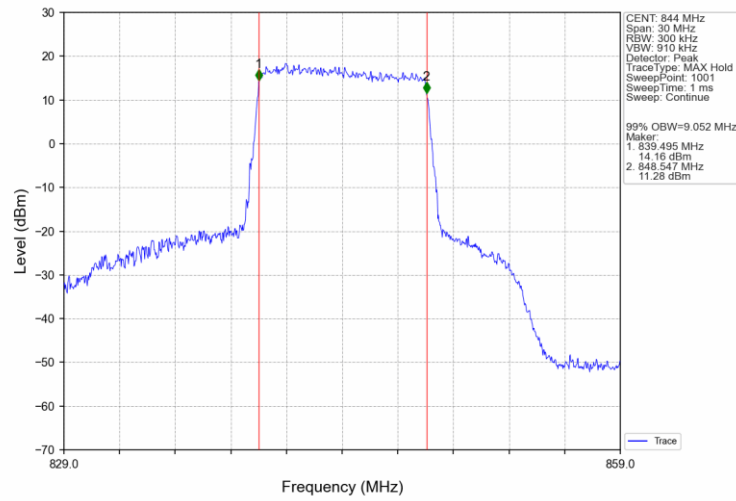
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



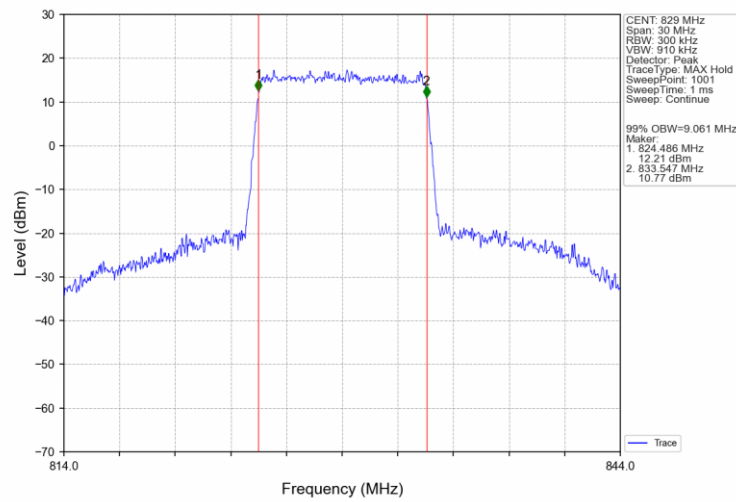
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



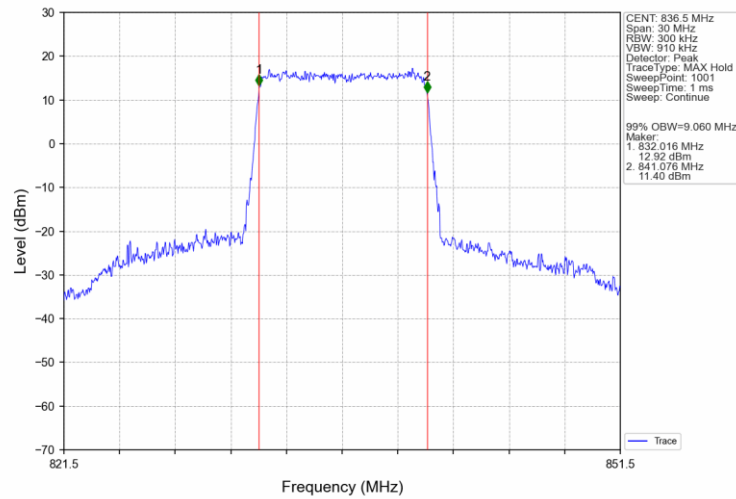
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



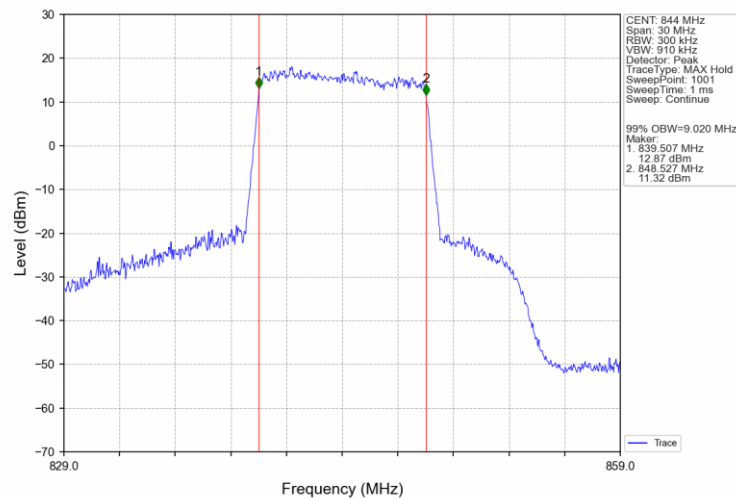
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

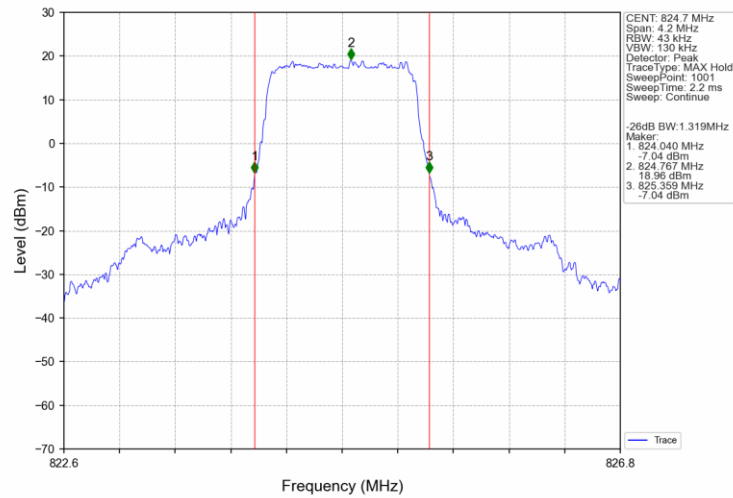


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

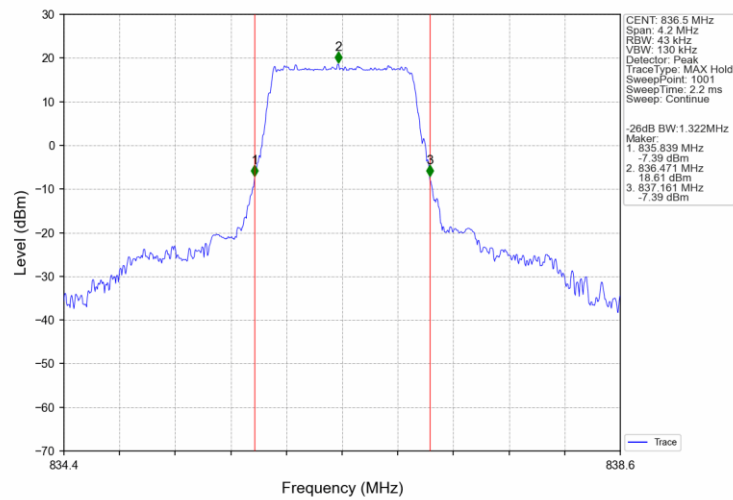


4.2.2 Band5_XDB

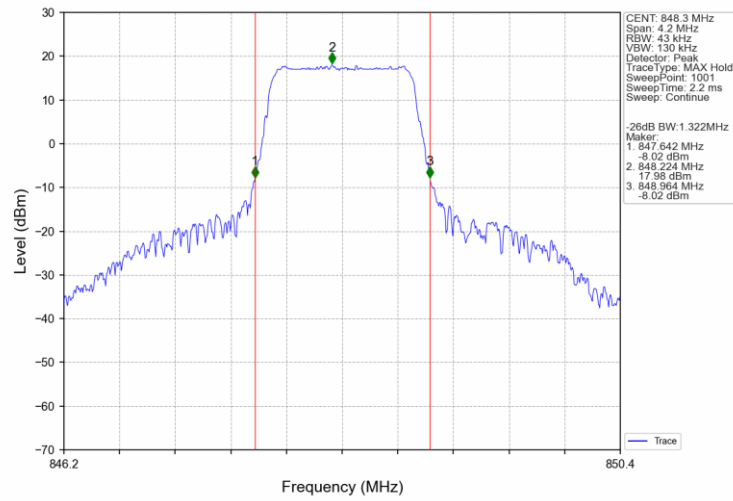
Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV



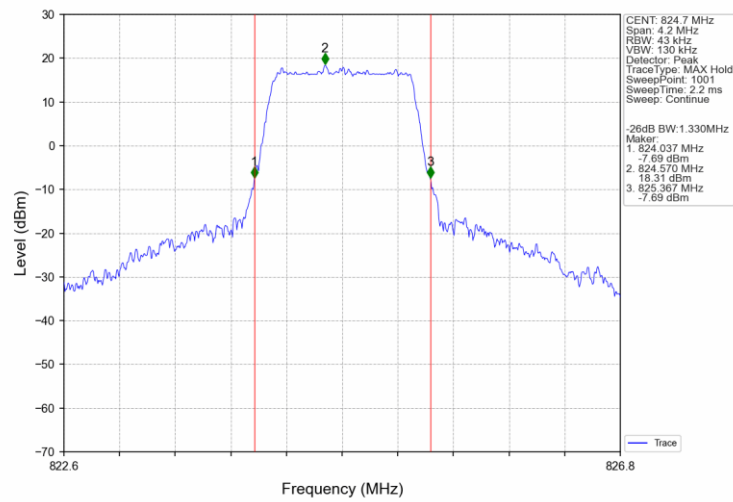
Band5 1.4MHz QPSK MCH 836.5MHz RB 6 0 NTNV



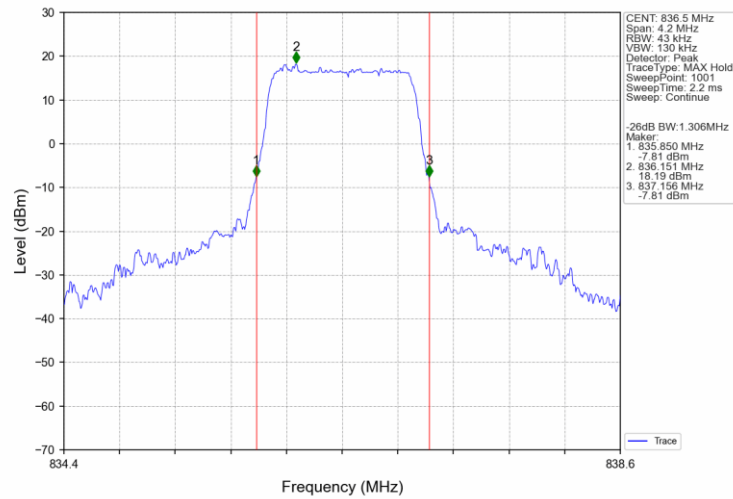
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



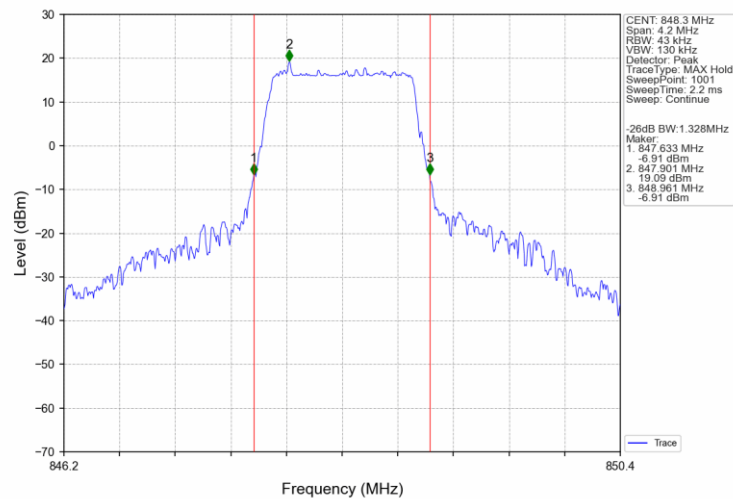
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



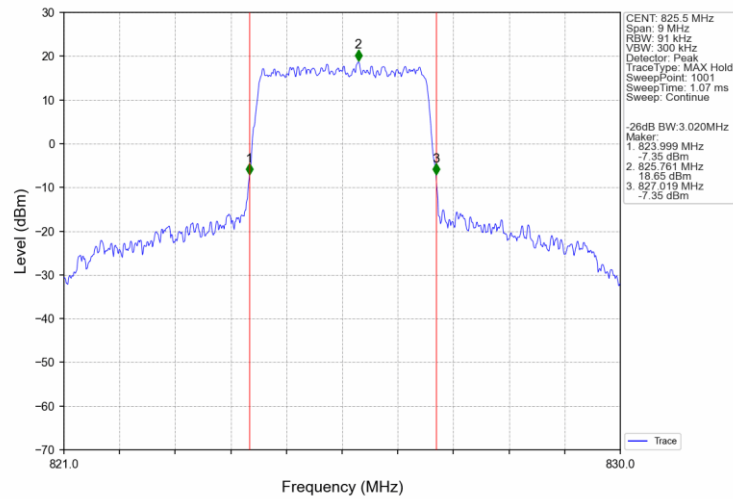
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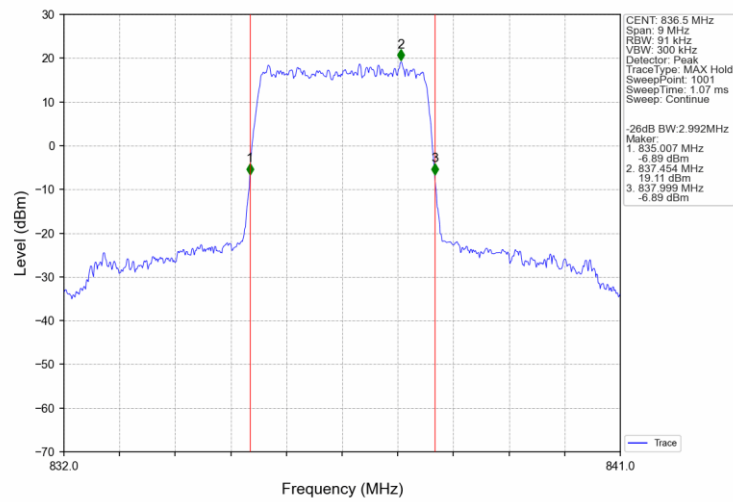
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



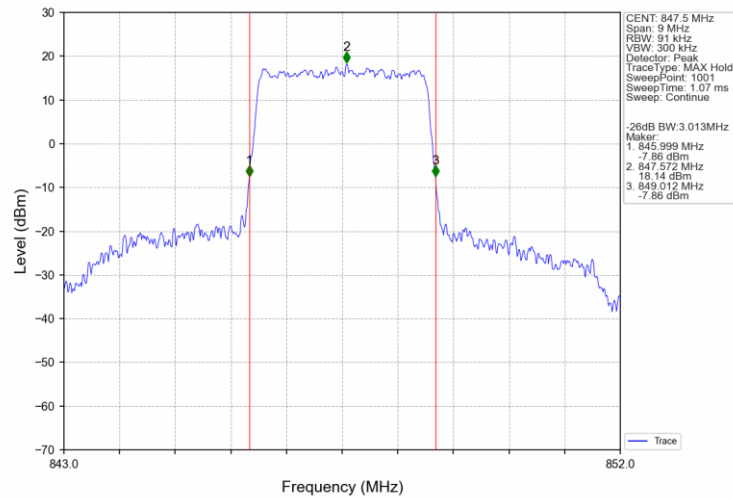
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



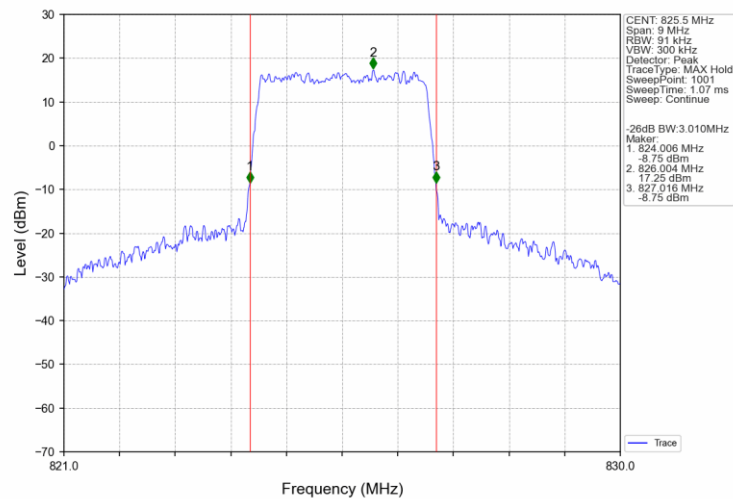
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



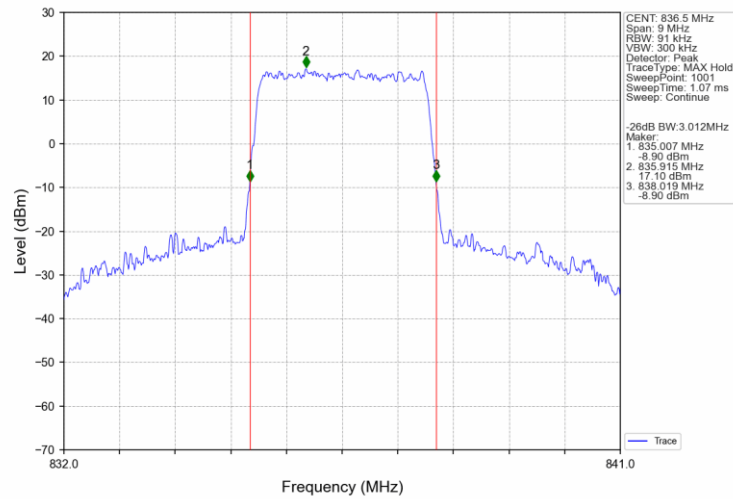
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



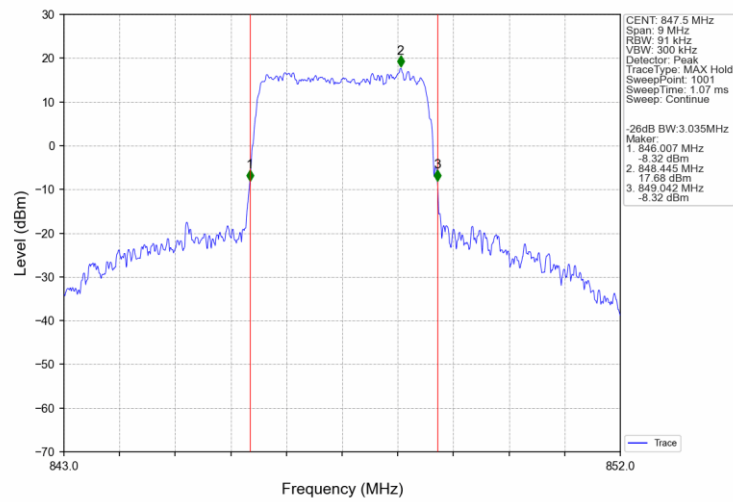
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



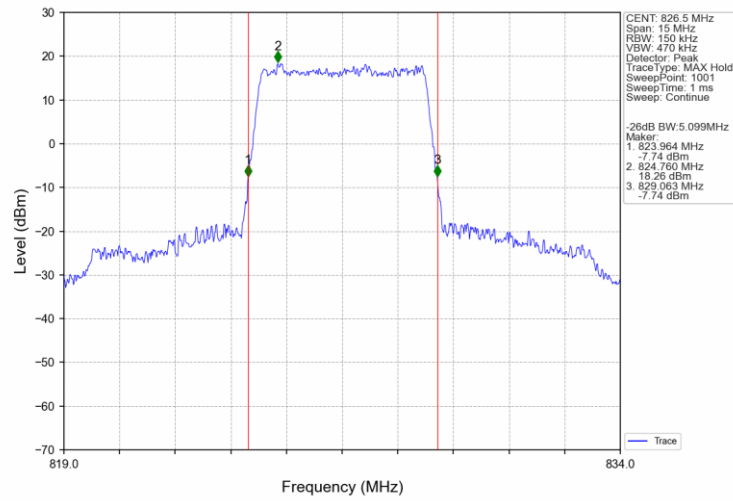
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



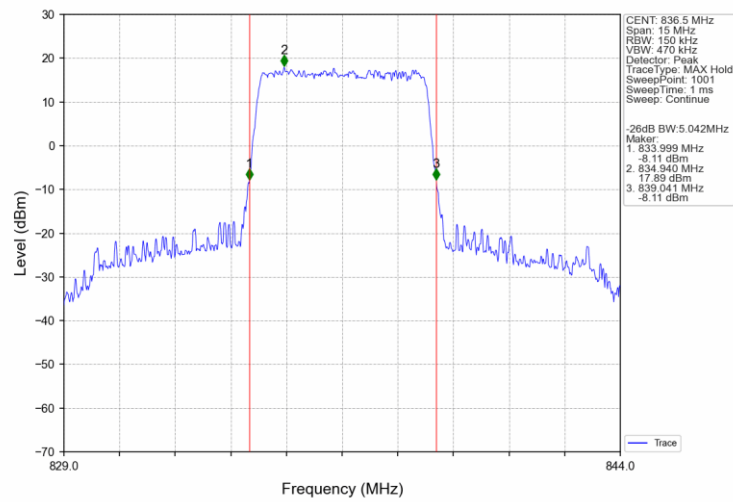
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



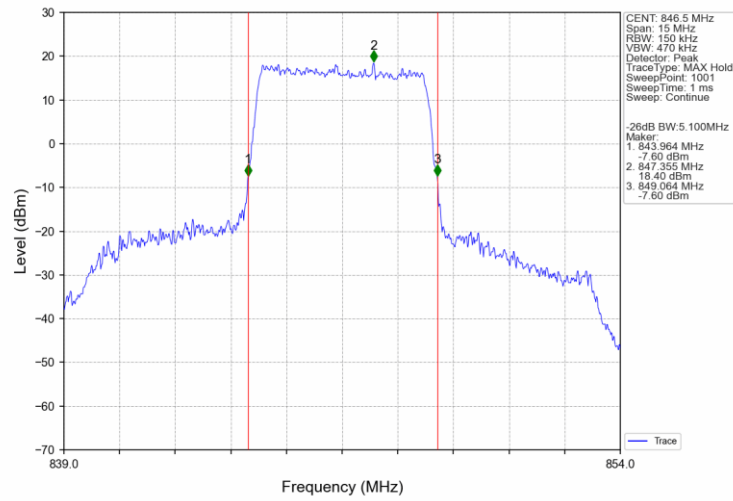
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



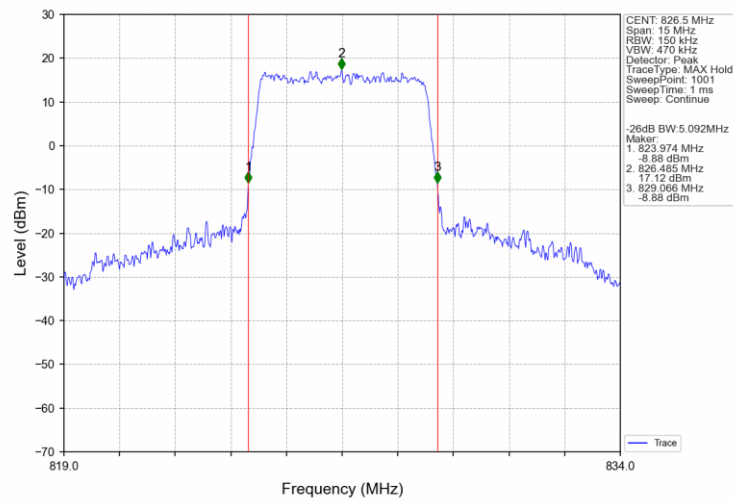
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



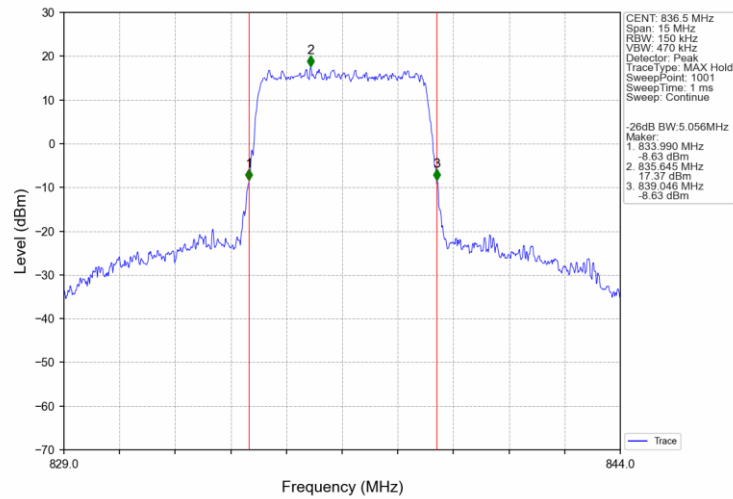
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



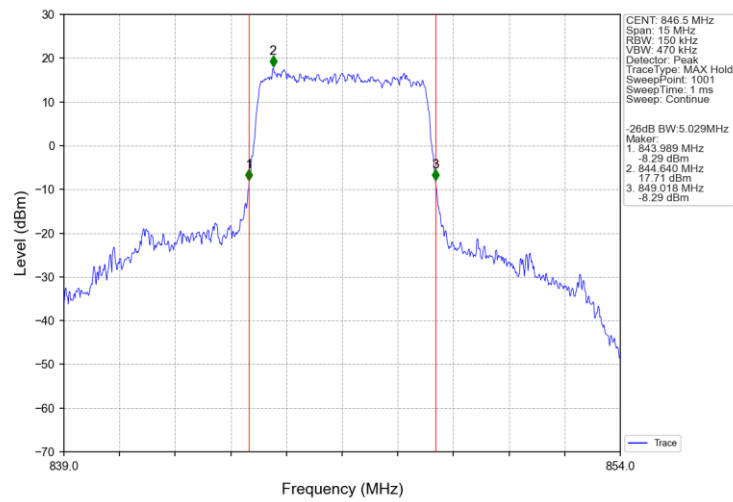
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



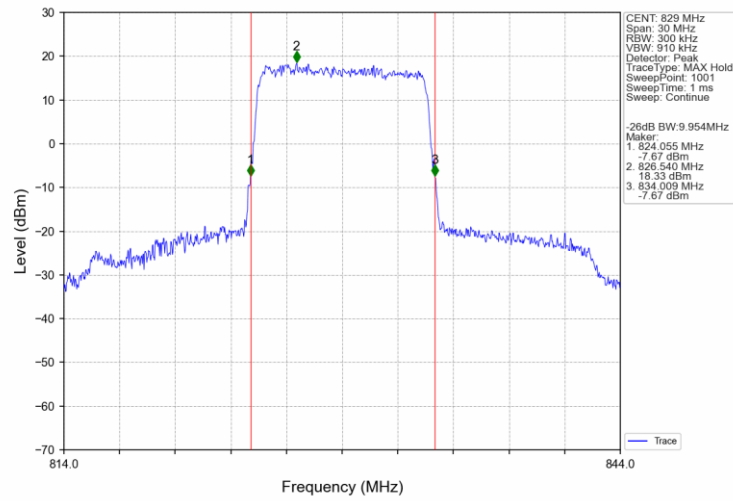
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



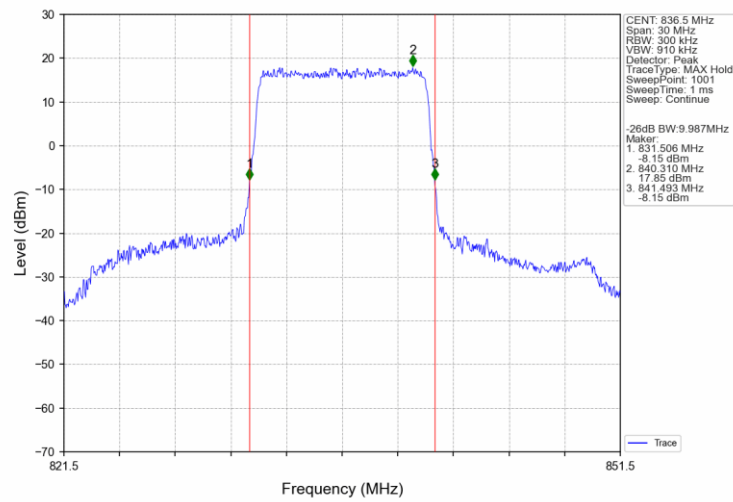
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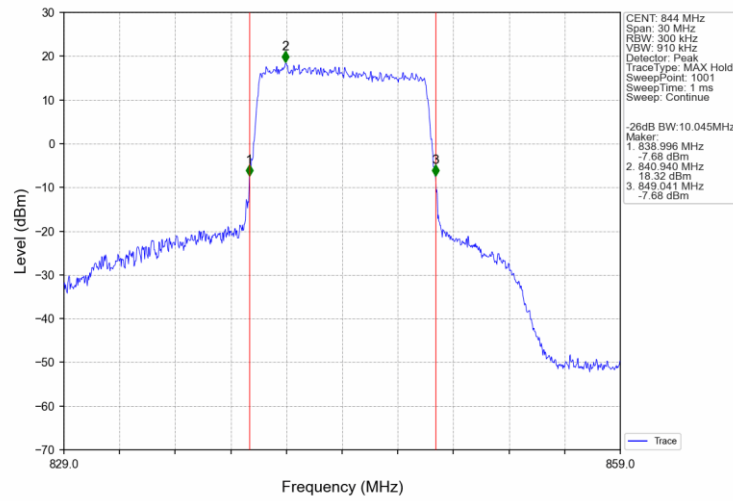
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



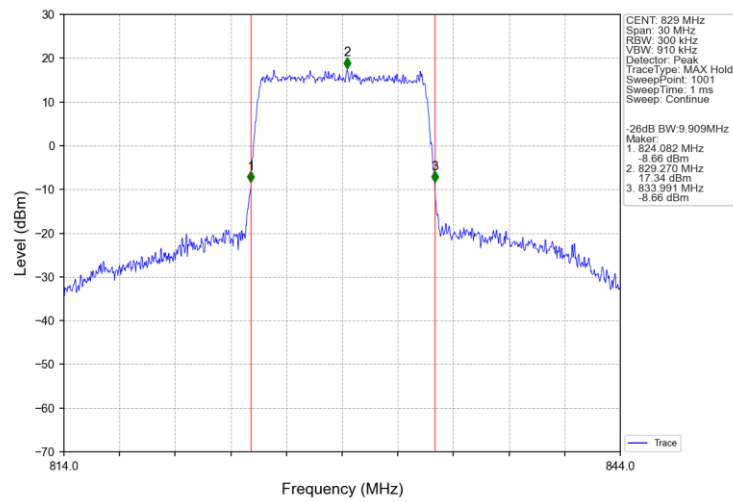
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



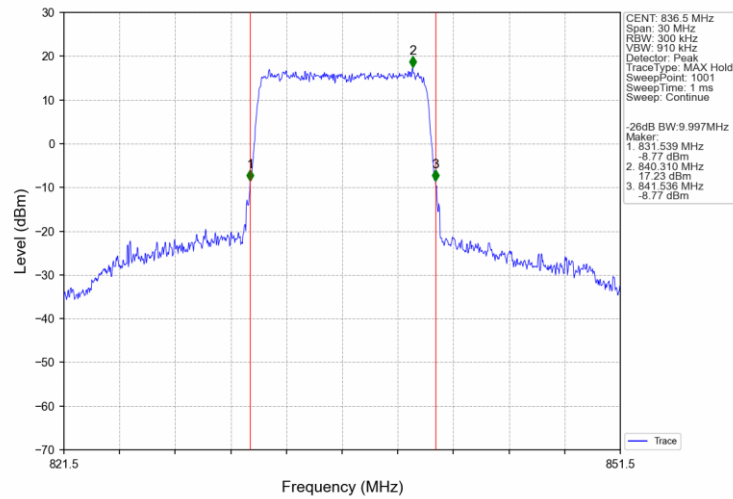
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



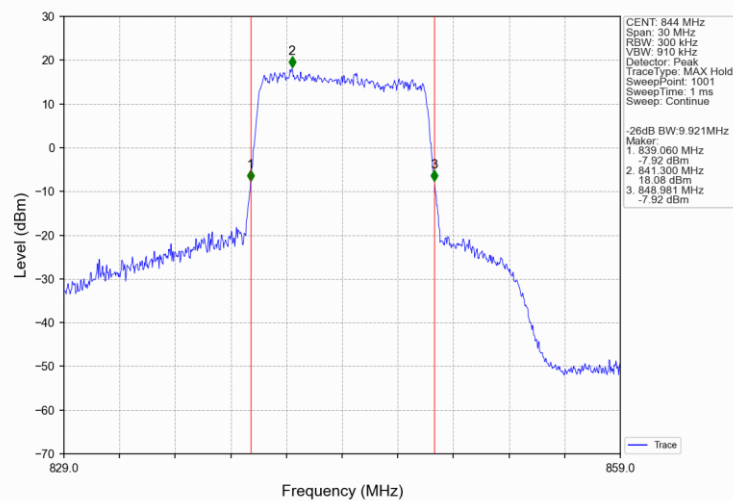
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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	4.79	<=13	Pass
	836.5	6	0	5.31	<=13	Pass
	848.3	6	0	5.02	<=13	Pass
16QAM	824.7	6	0	5.63	<=13	Pass
	836.5	6	0	6.16	<=13	Pass
	848.3	6	0	5.78	<=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	4.93	<=13	Pass
	836.5	15	0	5.42	<=13	Pass
	847.5	15	0	5.29	<=13	Pass
16QAM	825.5	15	0	5.77	<=13	Pass
	836.5	15	0	6.27	<=13	Pass
	847.5	15	0	6.09	<=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	5.27	<=13	Pass
	836.5	25	0	5.59	<=13	Pass
	846.5	25	0	5.49	<=13	Pass
16QAM	826.5	25	0	5.99	<=13	Pass
	836.5	25	0	6.30	<=13	Pass
	846.5	25	0	6.15	<=13	Pass

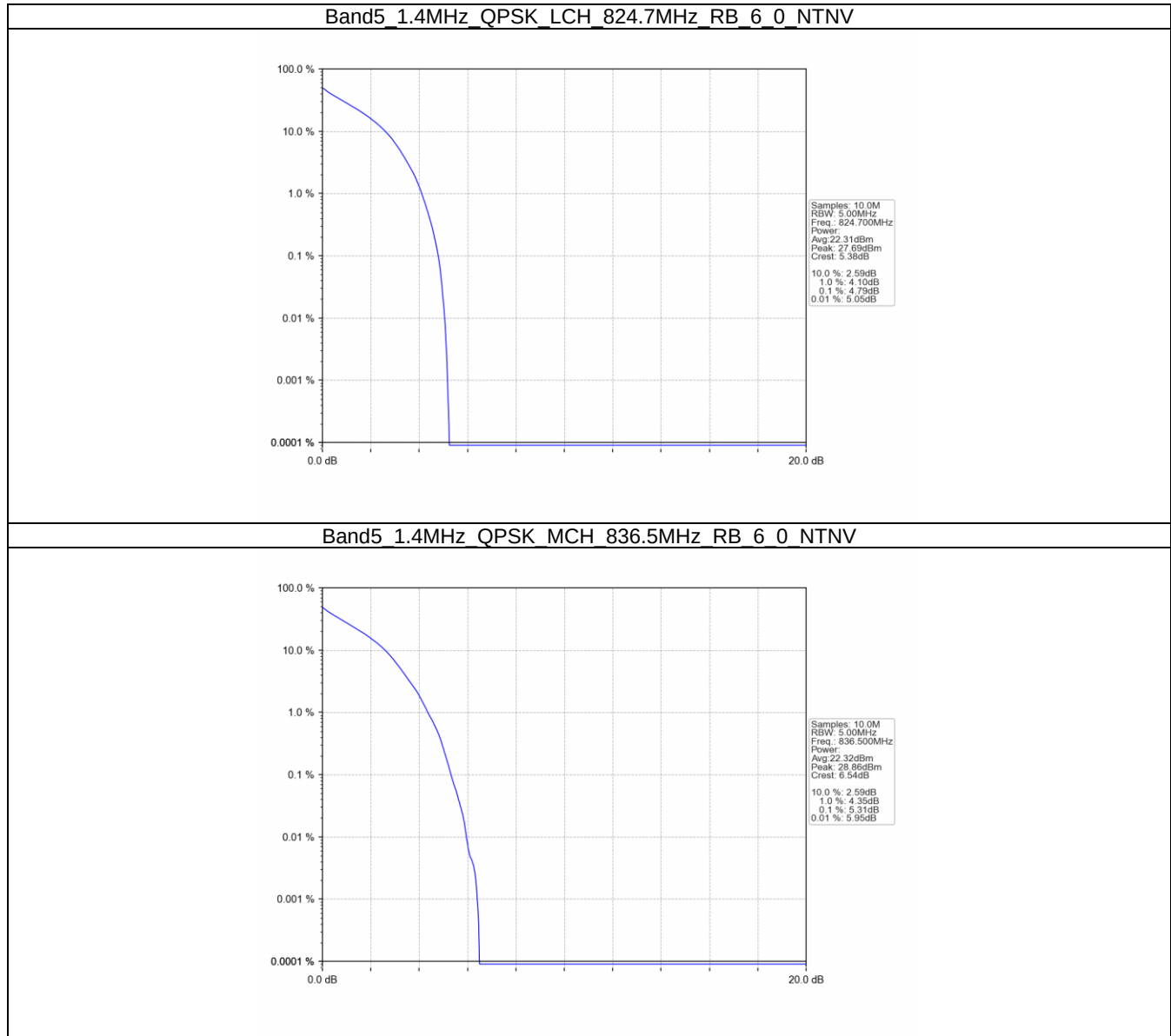
5.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.31	<=13	Pass
	836.5	50	0	5.50	<=13	Pass
	844	50	0	5.44	<=13	Pass
16QAM	829	50	0	6.09	<=13	Pass
	836.5	50	0	6.29	<=13	Pass
	844	50	0	6.17	<=13	Pass

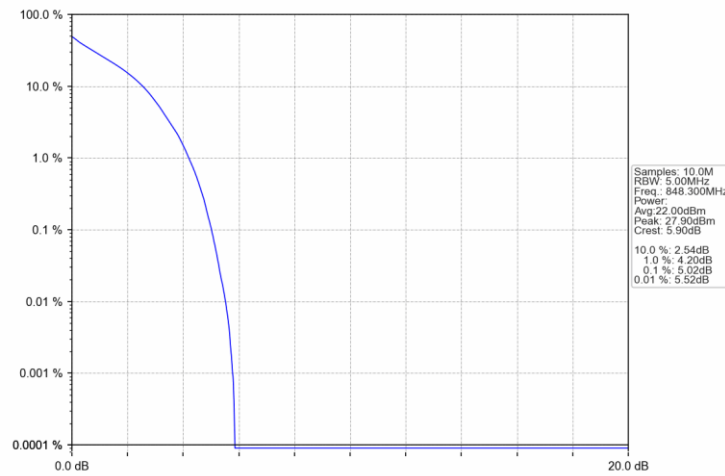


5.2 Test Graph

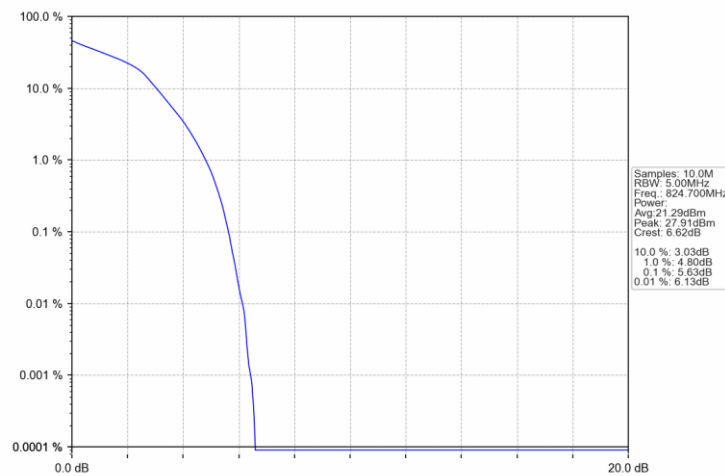
5.2.1 B5_1.4MHz



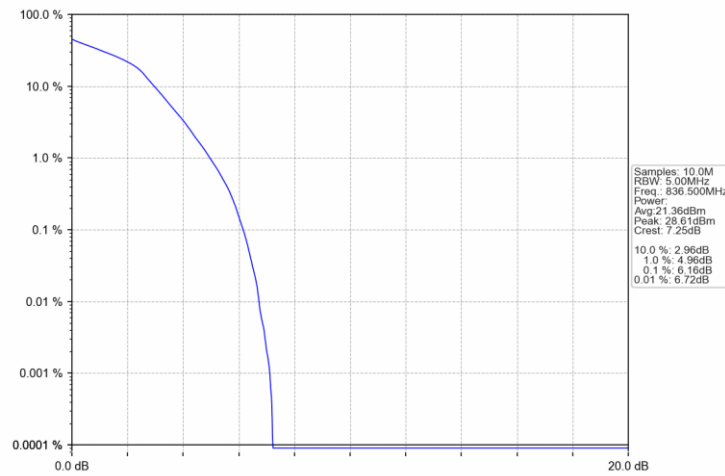
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



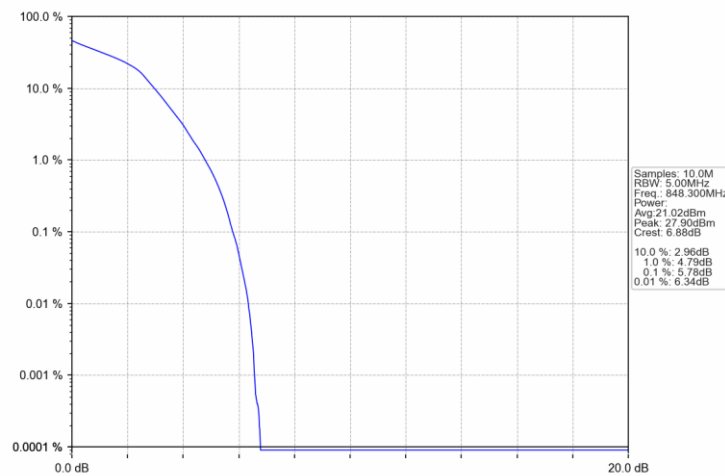
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

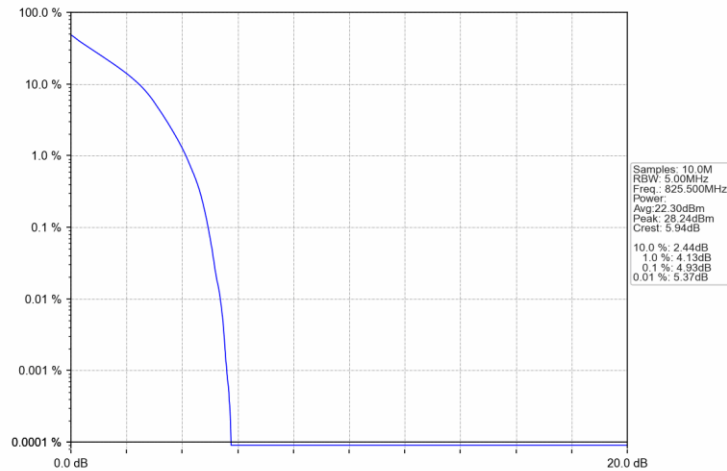


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



5.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV

