

Appendix Test Data for LTE_band_7

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B7_5MHz_EIRP

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	23.23	1.12	24.35	<=33.01	Pass
			13	23.33	1.12	24.45	<=33.01	Pass
			24	23.24	1.12	24.36	<=33.01	Pass
		12	0	22.31	1.12	23.43	<=33.01	Pass
			6	22.35	1.12	23.47	<=33.01	Pass
			13	22.31	1.12	23.43	<=33.01	Pass
		25	0	22.28	1.12	23.40	<=33.01	Pass
	2535	1	0	23.04	1.12	24.16	<=33.01	Pass
			13	23.20	1.12	24.32	<=33.01	Pass
			24	23.04	1.12	24.16	<=33.01	Pass
		12	0	22.12	1.12	23.24	<=33.01	Pass
			6	22.18	1.12	23.30	<=33.01	Pass
			13	22.12	1.12	23.24	<=33.01	Pass
		25	0	22.09	1.12	23.21	<=33.01	Pass
	2567.5	1	0	22.95	1.12	24.07	<=33.01	Pass
			13	23.16	1.12	24.28	<=33.01	Pass
			24	23.02	1.12	24.14	<=33.01	Pass
		12	0	22.02	1.12	23.14	<=33.01	Pass
			6	22.10	1.12	23.22	<=33.01	Pass
			13	22.02	1.12	23.14	<=33.01	Pass
		25	0	22.02	1.12	23.14	<=33.01	Pass
16QAM	2502.5	1	0	22.41	1.12	23.53	<=33.01	Pass
			13	22.52	1.12	23.64	<=33.01	Pass
			24	22.42	1.12	23.54	<=33.01	Pass
		12	0	21.28	1.12	22.40	<=33.01	Pass
			6	21.35	1.12	22.47	<=33.01	Pass
			13	21.26	1.12	22.38	<=33.01	Pass
		25	0	21.24	1.12	22.36	<=33.01	Pass
	2535	1	0	21.92	1.12	23.04	<=33.01	Pass
			13	22.03	1.12	23.15	<=33.01	Pass
			24	21.89	1.12	23.01	<=33.01	Pass
		12	0	21.09	1.12	22.21	<=33.01	Pass
			6	21.16	1.12	22.28	<=33.01	Pass
			13	21.03	1.12	22.15	<=33.01	Pass
		25	0	21.13	1.12	22.25	<=33.01	Pass
	2567.5	1	0	21.98	1.12	23.10	<=33.01	Pass
			13	22.15	1.12	23.27	<=33.01	Pass
			24	22.02	1.12	23.14	<=33.01	Pass
		12	0	20.97	1.12	22.09	<=33.01	Pass
			6	21.04	1.12	22.16	<=33.01	Pass
			13	20.97	1.12	22.09	<=33.01	Pass
		25	0	21.00	1.12	22.12	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	23.29	1.12	24.41	<=33.01	Pass
			25	23.49	1.12	24.61	<=33.01	Pass
			49	23.31	1.12	24.43	<=33.01	Pass
		25	0	22.27	1.12	23.39	<=33.01	Pass
			13	22.30	1.12	23.42	<=33.01	Pass
			25	22.32	1.12	23.44	<=33.01	Pass
		50	0	22.29	1.12	23.41	<=33.01	Pass
			0	23.13	1.12	24.25	<=33.01	Pass
			25	23.29	1.12	24.41	<=33.01	Pass
	2535	1	49	23.08	1.12	24.20	<=33.01	Pass
			0	22.19	1.12	23.31	<=33.01	Pass
			13	22.16	1.12	23.28	<=33.01	Pass
		25	25	22.09	1.12	23.21	<=33.01	Pass
			0	22.12	1.12	23.24	<=33.01	Pass
			0	22.99	1.12	24.11	<=33.01	Pass
		25	25	23.19	1.12	24.31	<=33.01	Pass
			49	23.10	1.12	24.22	<=33.01	Pass
			0	22.00	1.12	23.12	<=33.01	Pass
	2565	25	13	22.04	1.12	23.16	<=33.01	Pass
			25	22.07	1.12	23.19	<=33.01	Pass
			0	22.01	1.12	23.13	<=33.01	Pass
16QAM	2505	1	0	22.21	1.12	23.33	<=33.01	Pass
			25	22.43	1.12	23.55	<=33.01	Pass
			49	22.25	1.12	23.37	<=33.01	Pass
		25	0	21.33	1.12	22.45	<=33.01	Pass
			13	21.37	1.12	22.49	<=33.01	Pass
			25	21.39	1.12	22.51	<=33.01	Pass
		50	0	21.28	1.12	22.40	<=33.01	Pass
			0	22.26	1.12	23.38	<=33.01	Pass
			25	22.44	1.12	23.56	<=33.01	Pass
	2535	1	49	22.25	1.12	23.37	<=33.01	Pass
			0	21.19	1.12	22.31	<=33.01	Pass
			13	21.16	1.12	22.28	<=33.01	Pass
		25	25	21.08	1.12	22.20	<=33.01	Pass
			0	21.12	1.12	22.24	<=33.01	Pass
			0	22.42	1.12	23.54	<=33.01	Pass
		25	25	22.59	1.12	23.71	<=33.01	Pass
			49	22.47	1.12	23.59	<=33.01	Pass
			0	21.02	1.12	22.14	<=33.01	Pass
	2565	25	13	21.05	1.12	22.17	<=33.01	Pass
			25	21.08	1.12	22.20	<=33.01	Pass
			0	20.99	1.12	22.11	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	23.20	1.12	24.32	<=33.01	Pass
			38	23.30	1.12	24.42	<=33.01	Pass
			74	23.15	1.12	24.27	<=33.01	Pass
		36	0	22.32	1.12	23.44	<=33.01	Pass
			18	22.33	1.12	23.45	<=33.01	Pass
			39	22.36	1.12	23.48	<=33.01	Pass
		75	0	22.37	1.12	23.49	<=33.01	Pass
			0	23.03	1.12	24.15	<=33.01	Pass
			38	23.16	1.12	24.28	<=33.01	Pass
	2535	1	74	23.02	1.12	24.14	<=33.01	Pass
			0	22.22	1.12	23.34	<=33.01	Pass
			18	22.22	1.12	23.34	<=33.01	Pass
		36	39	22.16	1.12	23.28	<=33.01	Pass
			0	22.19	1.12	23.31	<=33.01	Pass
			0	22.89	1.12	24.01	<=33.01	Pass
		75	38	23.04	1.12	24.16	<=33.01	Pass
			74	22.98	1.12	24.10	<=33.01	Pass
			0	22.07	1.12	23.19	<=33.01	Pass
	2562.5	36	18	22.13	1.12	23.25	<=33.01	Pass
			39	22.17	1.12	23.29	<=33.01	Pass
		75	0	22.09	1.12	23.21	<=33.01	Pass
16QAM	2507.5	1	0	22.44	1.12	23.56	<=33.01	Pass
			38	22.58	1.12	23.70	<=33.01	Pass
			74	22.40	1.12	23.52	<=33.01	Pass
		36	0	21.22	1.12	22.34	<=33.01	Pass
			18	21.25	1.12	22.37	<=33.01	Pass
			39	21.29	1.12	22.41	<=33.01	Pass
		75	0	21.28	1.12	22.40	<=33.01	Pass
			0	22.20	1.12	23.32	<=33.01	Pass
			38	22.23	1.12	23.35	<=33.01	Pass
	2535	1	74	22.14	1.12	23.26	<=33.01	Pass
			0	21.17	1.12	22.29	<=33.01	Pass
			18	21.15	1.12	22.27	<=33.01	Pass
		36	39	21.10	1.12	22.22	<=33.01	Pass
			0	21.15	1.12	22.27	<=33.01	Pass
		75	0	22.32	1.12	23.44	<=33.01	Pass
			38	22.48	1.12	23.60	<=33.01	Pass
			74	22.38	1.12	23.50	<=33.01	Pass
	2562.5	36	0	21.00	1.12	22.12	<=33.01	Pass
			18	21.05	1.12	22.17	<=33.01	Pass
			39	21.08	1.12	22.20	<=33.01	Pass
		75	0	21.04	1.12	22.16	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	22.97	1.12	24.09	<=33.01	Pass
			50	23.38	1.12	24.50	<=33.01	Pass
			99	22.98	1.12	24.10	<=33.01	Pass
		50	0	22.14	1.12	23.26	<=33.01	Pass
			25	22.25	1.12	23.37	<=33.01	Pass
			50	22.24	1.12	23.36	<=33.01	Pass
		100	0	22.23	1.12	23.35	<=33.01	Pass
			0	22.92	1.12	24.04	<=33.01	Pass
			99	23.30	1.12	24.42	<=33.01	Pass
	2535	1	0	22.88	1.12	24.00	<=33.01	Pass
			50	22.12	1.12	23.24	<=33.01	Pass
			25	22.12	1.12	23.24	<=33.01	Pass
		50	50	22.01	1.12	23.13	<=33.01	Pass
			0	22.08	1.12	23.20	<=33.01	Pass
			0	22.74	1.12	23.86	<=33.01	Pass
		100	50	23.21	1.12	24.33	<=33.01	Pass
			99	22.89	1.12	24.01	<=33.01	Pass
			0	21.88	1.12	23.00	<=33.01	Pass
	2560	50	25	22.02	1.12	23.14	<=33.01	Pass
			50	22.01	1.12	23.13	<=33.01	Pass
		100	0	21.95	1.12	23.07	<=33.01	Pass
16QAM	2510	1	0	22.43	1.12	23.55	<=33.01	Pass
			50	22.86	1.12	23.98	<=33.01	Pass
			99	22.49	1.12	23.61	<=33.01	Pass
		50	0	21.13	1.12	22.25	<=33.01	Pass
			25	21.25	1.12	22.37	<=33.01	Pass
			50	21.22	1.12	22.34	<=33.01	Pass
		100	0	21.19	1.12	22.31	<=33.01	Pass
			0	22.09	1.12	23.21	<=33.01	Pass
			50	22.46	1.12	23.58	<=33.01	Pass
	2535	1	99	22.02	1.12	23.14	<=33.01	Pass
			0	21.13	1.12	22.25	<=33.01	Pass
			25	21.11	1.12	22.23	<=33.01	Pass
		50	50	21.01	1.12	22.13	<=33.01	Pass
			0	21.05	1.12	22.17	<=33.01	Pass
			0	21.97	1.12	23.09	<=33.01	Pass
		100	50	22.40	1.12	23.52	<=33.01	Pass
			99	22.07	1.12	23.19	<=33.01	Pass
			0	20.88	1.12	22.00	<=33.01	Pass
	2560	50	25	20.99	1.12	22.11	<=33.01	Pass
			50	20.97	1.12	22.09	<=33.01	Pass
		100	0	20.94	1.12	22.06	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2502.5	25	0	20	3.31	-3.176	-0.0013	-2.5 to 2.5	Pass
					3.89	2.460	0.0010	-2.5 to 2.5	Pass
					4.47	2.260	0.0009	-2.5 to 2.5	Pass
				-30	3.89	-5.193	-0.0021	-2.5 to 2.5	Pass
				-20	3.89	-5.779	-0.0023	-2.5 to 2.5	Pass
				-10	3.89	-1.431	-0.0006	-2.5 to 2.5	Pass
				0	3.89	-7.253	-0.0029	-2.5 to 2.5	Pass
				10	3.89	-13.061	-0.0052	-2.5 to 2.5	Pass
				30	3.89	-9.656	-0.0039	-2.5 to 2.5	Pass
				40	3.89	-7.811	-0.0031	-2.5 to 2.5	Pass
				50	3.89	-6.824	-0.0027	-2.5 to 2.5	Pass
	2535	25	0	20	3.31	-10.028	-0.0040	-2.5 to 2.5	Pass
					3.89	-8.068	-0.0032	-2.5 to 2.5	Pass
					4.47	-1.516	-0.0006	-2.5 to 2.5	Pass
				-30	3.89	-7.696	-0.0030	-2.5 to 2.5	Pass
				-20	3.89	-1.574	-0.0006	-2.5 to 2.5	Pass
				-10	3.89	-2.933	-0.0012	-2.5 to 2.5	Pass
				0	3.89	-4.234	-0.0017	-2.5 to 2.5	Pass
				10	3.89	-2.489	-0.0010	-2.5 to 2.5	Pass
				30	3.89	1.616	0.0006	-2.5 to 2.5	Pass
				40	3.89	1.230	0.0005	-2.5 to 2.5	Pass
				50	3.89	-7.324	-0.0029	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.31	-16.508	-0.0064	-2.5 to 2.5	Pass
					3.89	-13.089	-0.0051	-2.5 to 2.5	Pass
					4.47	-6.623	-0.0026	-2.5 to 2.5	Pass
				-30	3.89	-8.183	-0.0032	-2.5 to 2.5	Pass
				-20	3.89	-3.362	-0.0013	-2.5 to 2.5	Pass
				-10	3.89	-4.363	-0.0017	-2.5 to 2.5	Pass
				0	3.89	-1.860	-0.0007	-2.5 to 2.5	Pass
				10	3.89	-3.490	-0.0014	-2.5 to 2.5	Pass
				30	3.89	-7.839	-0.0031	-2.5 to 2.5	Pass
				40	3.89	-6.924	-0.0027	-2.5 to 2.5	Pass
				50	3.89	-12.259	-0.0048	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	3.31	-7.424	-0.0030	-2.5 to 2.5	Pass
					3.89	-5.007	-0.0020	-2.5 to 2.5	Pass
					4.47	-11.559	-0.0046	-2.5 to 2.5	Pass
				-30	3.89	-7.825	-0.0031	-2.5 to 2.5	Pass
				-20	3.89	-7.839	-0.0031	-2.5 to 2.5	Pass
				-10	3.89	-3.934	-0.0016	-2.5 to 2.5	Pass
				0	3.89	-1.602	-0.0006	-2.5 to 2.5	Pass
				10	3.89	-1.230	-0.0005	-2.5 to 2.5	Pass
				30	3.89	-4.063	-0.0016	-2.5 to 2.5	Pass
				40	3.89	-7.596	-0.0030	-2.5 to 2.5	Pass
				50	3.89	-5.407	-0.0022	-2.5 to 2.5	Pass
	2535	25	0	20	3.31	-4.749	-0.0019	-2.5 to 2.5	Pass
					3.89	-3.533	-0.0014	-2.5 to 2.5	Pass
					4.47	1.373	0.0005	-2.5 to 2.5	Pass
				-30	3.89	-10.786	-0.0043	-2.5 to 2.5	Pass
				-20	3.89	-6.638	-0.0026	-2.5 to 2.5	Pass
				-10	3.89	-1.631	-0.0006	-2.5 to 2.5	Pass

				0	3.89	0.315	0.0001	-2.5 to 2.5	Pass
				10	3.89	3.076	0.0012	-2.5 to 2.5	Pass
				30	3.89	-7.296	-0.0029	-2.5 to 2.5	Pass
				40	3.89	-8.454	-0.0033	-2.5 to 2.5	Pass
				50	3.89	-12.217	-0.0048	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.31	-1.702	-0.0007	-2.5 to 2.5	Pass
					3.89	-11.516	-0.0045	-2.5 to 2.5	Pass
					4.47	-7.539	-0.0029	-2.5 to 2.5	Pass
				-30	3.89	-11.945	-0.0047	-2.5 to 2.5	Pass
				-20	3.89	2.031	0.0008	-2.5 to 2.5	Pass
				-10	3.89	1.531	0.0006	-2.5 to 2.5	Pass
				0	3.89	3.948	0.0015	-2.5 to 2.5	Pass
				10	3.89	-6.738	-0.0026	-2.5 to 2.5	Pass
				30	3.89	-0.629	-0.0002	-2.5 to 2.5	Pass
				40	3.89	0.629	0.0002	-2.5 to 2.5	Pass
				50	3.89	-7.396	-0.0029	-2.5 to 2.5	Pass

2.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2505	50	0	20	3.31	-10.257	-0.0041	-2.5 to 2.5	Pass
					3.89	-3.004	-0.0012	-2.5 to 2.5	Pass
					4.47	-3.862	-0.0015	-2.5 to 2.5	Pass
				-30	3.89	-5.980	-0.0024	-2.5 to 2.5	Pass
				-20	3.89	-3.991	-0.0016	-2.5 to 2.5	Pass
				-10	3.89	-8.469	-0.0034	-2.5 to 2.5	Pass
				0	3.89	-1.216	-0.0005	-2.5 to 2.5	Pass
				10	3.89	-1.974	-0.0008	-2.5 to 2.5	Pass
				30	3.89	-7.610	-0.0030	-2.5 to 2.5	Pass
				40	3.89	-11.244	-0.0045	-2.5 to 2.5	Pass
	2535	50	0	20	3.31	-14.062	-0.0055	-2.5 to 2.5	Pass
					3.89	-5.808	-0.0023	-2.5 to 2.5	Pass
					4.47	-3.333	-0.0013	-2.5 to 2.5	Pass
				-30	3.89	-10.915	-0.0043	-2.5 to 2.5	Pass
				-20	3.89	-2.489	-0.0010	-2.5 to 2.5	Pass
				-10	3.89	-4.277	-0.0017	-2.5 to 2.5	Pass
				0	3.89	-7.195	-0.0028	-2.5 to 2.5	Pass
				10	3.89	-7.653	-0.0030	-2.5 to 2.5	Pass
				30	3.89	-10.228	-0.0040	-2.5 to 2.5	Pass
				40	3.89	-7.639	-0.0030	-2.5 to 2.5	Pass
	2565	50	0	20	3.31	-7.668	-0.0030	-2.5 to 2.5	Pass
					3.89	-1.459	-0.0006	-2.5 to 2.5	Pass
					4.47	-1.874	-0.0007	-2.5 to 2.5	Pass
				-30	3.89	-0.415	-0.0002	-2.5 to 2.5	Pass
				-20	3.89	-5.994	-0.0023	-2.5 to 2.5	Pass
				-10	3.89	-1.473	-0.0006	-2.5 to 2.5	Pass
				0	3.89	-2.460	-0.0010	-2.5 to 2.5	Pass
				10	3.89	0.229	0.0001	-2.5 to 2.5	Pass
				30	3.89	-9.012	-0.0035	-2.5 to 2.5	Pass
				40	3.89	-5.665	-0.0022	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.31	1.831	0.0007	-2.5 to 2.5	Pass
					3.89	-0.143	-0.0001	-2.5 to 2.5	Pass
					4.47	-3.862	-0.0015	-2.5 to 2.5	Pass

				-30	3.89	6.065	0.0024	-2.5 to 2.5	Pass
				-20	3.89	2.389	0.0010	-2.5 to 2.5	Pass
				-10	3.89	-4.706	-0.0019	-2.5 to 2.5	Pass
				0	3.89	-3.648	-0.0015	-2.5 to 2.5	Pass
				10	3.89	-7.124	-0.0028	-2.5 to 2.5	Pass
				30	3.89	-3.963	-0.0016	-2.5 to 2.5	Pass
				40	3.89	1.030	0.0004	-2.5 to 2.5	Pass
				50	3.89	-0.472	-0.0002	-2.5 to 2.5	Pass
	2535	50	0	20	3.31	-4.091	-0.0016	-2.5 to 2.5	Pass
					3.89	-9.513	-0.0038	-2.5 to 2.5	Pass
					4.47	-7.095	-0.0028	-2.5 to 2.5	Pass
				-30	3.89	-7.682	-0.0030	-2.5 to 2.5	Pass
				-20	3.89	-8.726	-0.0034	-2.5 to 2.5	Pass
				-10	3.89	4.449	0.0018	-2.5 to 2.5	Pass
				0	3.89	-9.198	-0.0036	-2.5 to 2.5	Pass
				10	3.89	5.636	0.0022	-2.5 to 2.5	Pass
				30	3.89	-3.748	-0.0015	-2.5 to 2.5	Pass
				40	3.89	-7.095	-0.0028	-2.5 to 2.5	Pass
				50	3.89	-6.194	-0.0024	-2.5 to 2.5	Pass
	2565	50	0	20	3.31	-9.270	-0.0036	-2.5 to 2.5	Pass
					3.89	-6.738	-0.0026	-2.5 to 2.5	Pass
					4.47	-3.691	-0.0014	-2.5 to 2.5	Pass
				-30	3.89	-1.616	-0.0006	-2.5 to 2.5	Pass
				-20	3.89	1.302	0.0005	-2.5 to 2.5	Pass
				-10	3.89	-2.103	-0.0008	-2.5 to 2.5	Pass
				0	3.89	-7.253	-0.0028	-2.5 to 2.5	Pass
				10	3.89	-4.649	-0.0018	-2.5 to 2.5	Pass
				30	3.89	2.503	0.0010	-2.5 to 2.5	Pass
				40	3.89	-0.958	-0.0004	-2.5 to 2.5	Pass
				50	3.89	-3.676	-0.0014	-2.5 to 2.5	Pass

2.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2507.5	75	0	20	3.31	-9.227	-0.0037	-2.5 to 2.5	Pass
					3.89	-5.350	-0.0021	-2.5 to 2.5	Pass
					4.47	-5.350	-0.0021	-2.5 to 2.5	Pass
				-30	3.89	-5.136	-0.0020	-2.5 to 2.5	Pass
				-20	3.89	-3.777	-0.0015	-2.5 to 2.5	Pass
				-10	3.89	-7.038	-0.0028	-2.5 to 2.5	Pass
				0	3.89	-3.777	-0.0015	-2.5 to 2.5	Pass
				10	3.89	-3.905	-0.0016	-2.5 to 2.5	Pass
				30	3.89	-0.143	-0.0001	-2.5 to 2.5	Pass
				40	3.89	-11.315	-0.0045	-2.5 to 2.5	Pass
				50	3.89	-2.618	-0.0010	-2.5 to 2.5	Pass
	2535	75	0	20	3.31	-6.523	-0.0026	-2.5 to 2.5	Pass
					3.89	-1.831	-0.0007	-2.5 to 2.5	Pass
					4.47	-9.027	-0.0036	-2.5 to 2.5	Pass
				-30	3.89	-6.266	-0.0025	-2.5 to 2.5	Pass
				-20	3.89	-0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.89	-1.016	-0.0004	-2.5 to 2.5	Pass
				0	3.89	-0.472	-0.0002	-2.5 to 2.5	Pass
				10	3.89	-12.417	-0.0049	-2.5 to 2.5	Pass
				30	3.89	-3.176	-0.0013	-2.5 to 2.5	Pass
				40	3.89	-3.076	-0.0012	-2.5 to 2.5	Pass
				50	3.89	-5.980	-0.0024	-2.5 to 2.5	Pass

	2562.5	75	0	20	3.31	-11.644	-0.0045	-2.5 to 2.5	Pass
					3.89	-7.954	-0.0031	-2.5 to 2.5	Pass
					4.47	-2.246	-0.0009	-2.5 to 2.5	Pass
				-30	3.89	-3.119	-0.0012	-2.5 to 2.5	Pass
				-20	3.89	-5.794	-0.0023	-2.5 to 2.5	Pass
				-10	3.89	-2.389	-0.0009	-2.5 to 2.5	Pass
				0	3.89	-4.506	-0.0018	-2.5 to 2.5	Pass
				10	3.89	-5.908	-0.0023	-2.5 to 2.5	Pass
				30	3.89	-9.971	-0.0039	-2.5 to 2.5	Pass
				40	3.89	-5.922	-0.0023	-2.5 to 2.5	Pass
				50	3.89	-8.698	-0.0034	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.31	-2.732	-0.0011	-2.5 to 2.5	Pass
					3.89	-1.616	-0.0006	-2.5 to 2.5	Pass
					4.47	-2.632	-0.0010	-2.5 to 2.5	Pass
				-30	3.89	-6.809	-0.0027	-2.5 to 2.5	Pass
				-20	3.89	-3.963	-0.0016	-2.5 to 2.5	Pass
				-10	3.89	-4.220	-0.0017	-2.5 to 2.5	Pass
				0	3.89	-2.546	-0.0010	-2.5 to 2.5	Pass
				10	3.89	-6.094	-0.0024	-2.5 to 2.5	Pass
				30	3.89	-2.918	-0.0012	-2.5 to 2.5	Pass
				40	3.89	-7.596	-0.0030	-2.5 to 2.5	Pass
				50	3.89	-5.908	-0.0024	-2.5 to 2.5	Pass
	2535	75	0	20	3.31	-2.875	-0.0011	-2.5 to 2.5	Pass
					3.89	-6.223	-0.0025	-2.5 to 2.5	Pass
					4.47	-5.522	-0.0022	-2.5 to 2.5	Pass
				-30	3.89	-5.078	-0.0020	-2.5 to 2.5	Pass
				-20	3.89	-5.822	-0.0023	-2.5 to 2.5	Pass
				-10	3.89	-9.270	-0.0037	-2.5 to 2.5	Pass
				0	3.89	-6.123	-0.0024	-2.5 to 2.5	Pass
				10	3.89	-12.631	-0.0050	-2.5 to 2.5	Pass
				30	3.89	-1.931	-0.0008	-2.5 to 2.5	Pass
				40	3.89	-0.315	-0.0001	-2.5 to 2.5	Pass
				50	3.89	-10.428	-0.0041	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.31	-9.012	-0.0035	-2.5 to 2.5	Pass
					3.89	-6.967	-0.0027	-2.5 to 2.5	Pass
					4.47	-9.284	-0.0036	-2.5 to 2.5	Pass
				-30	3.89	-9.098	-0.0036	-2.5 to 2.5	Pass
				-20	3.89	-1.287	-0.0005	-2.5 to 2.5	Pass
				-10	3.89	-4.134	-0.0016	-2.5 to 2.5	Pass
				0	3.89	-6.008	-0.0023	-2.5 to 2.5	Pass
				10	3.89	-4.406	-0.0017	-2.5 to 2.5	Pass
				30	3.89	-5.593	-0.0022	-2.5 to 2.5	Pass
				40	3.89	3.862	0.0015	-2.5 to 2.5	Pass
				50	3.89	-2.475	-0.0010	-2.5 to 2.5	Pass

2.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	3.31	-4.978	-0.0020	-2.5 to 2.5	Pass
					3.89	-8.883	-0.0035	-2.5 to 2.5	Pass
					4.47	-4.034	-0.0016	-2.5 to 2.5	Pass
				-30	3.89	-7.482	-0.0030	-2.5 to 2.5	Pass
				-20	3.89	-8.869	-0.0035	-2.5 to 2.5	Pass
				-10	3.89	-5.994	-0.0024	-2.5 to 2.5	Pass
				0	3.89	-6.566	-0.0026	-2.5 to 2.5	Pass
				10	3.89	-6.509	-0.0026	-2.5 to 2.5	Pass

				30	3.89	-10.343	-0.0041	-2.5 to 2.5	Pass
				40	3.89	-4.835	-0.0019	-2.5 to 2.5	Pass
				50	3.89	-8.783	-0.0035	-2.5 to 2.5	Pass
	2535	100	0	20	3.31	-3.805	-0.0015	-2.5 to 2.5	Pass
					3.89	-7.539	-0.0030	-2.5 to 2.5	Pass
					4.47	-2.975	-0.0012	-2.5 to 2.5	Pass
				-30	3.89	-2.761	-0.0011	-2.5 to 2.5	Pass
				-20	3.89	-2.103	-0.0008	-2.5 to 2.5	Pass
				-10	3.89	-4.549	-0.0018	-2.5 to 2.5	Pass
				0	3.89	-6.180	-0.0024	-2.5 to 2.5	Pass
				10	3.89	-3.047	-0.0012	-2.5 to 2.5	Pass
				30	3.89	-6.380	-0.0025	-2.5 to 2.5	Pass
				40	3.89	-7.768	-0.0031	-2.5 to 2.5	Pass
				50	3.89	-3.762	-0.0015	-2.5 to 2.5	Pass
	2560	100	0	20	3.31	-10.471	-0.0041	-2.5 to 2.5	Pass
					3.89	-6.309	-0.0025	-2.5 to 2.5	Pass
					4.47	-9.642	-0.0038	-2.5 to 2.5	Pass
				-30	3.89	-2.747	-0.0011	-2.5 to 2.5	Pass
				-20	3.89	-6.638	-0.0026	-2.5 to 2.5	Pass
				-10	3.89	-8.326	-0.0033	-2.5 to 2.5	Pass
				0	3.89	-11.759	-0.0046	-2.5 to 2.5	Pass
				10	3.89	-11.473	-0.0045	-2.5 to 2.5	Pass
				30	3.89	-7.124	-0.0028	-2.5 to 2.5	Pass
				40	3.89	-7.010	-0.0027	-2.5 to 2.5	Pass
				50	3.89	-3.862	-0.0015	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.31	-3.119	-0.0012	-2.5 to 2.5	Pass
					3.89	-5.136	-0.0020	-2.5 to 2.5	Pass
					4.47	-6.280	-0.0025	-2.5 to 2.5	Pass
				-30	3.89	-6.881	-0.0027	-2.5 to 2.5	Pass
				-20	3.89	-9.842	-0.0039	-2.5 to 2.5	Pass
				-10	3.89	-4.563	-0.0018	-2.5 to 2.5	Pass
				0	3.89	-2.632	-0.0010	-2.5 to 2.5	Pass
				10	3.89	-7.124	-0.0028	-2.5 to 2.5	Pass
				30	3.89	-3.805	-0.0015	-2.5 to 2.5	Pass
				40	3.89	-1.144	-0.0005	-2.5 to 2.5	Pass
				50	3.89	-4.549	-0.0018	-2.5 to 2.5	Pass
	2535	100	0	20	3.31	-3.147	-0.0012	-2.5 to 2.5	Pass
					3.89	-3.233	-0.0013	-2.5 to 2.5	Pass
					4.47	-3.891	-0.0015	-2.5 to 2.5	Pass
				-30	3.89	-0.687	-0.0003	-2.5 to 2.5	Pass
				-20	3.89	-4.735	-0.0019	-2.5 to 2.5	Pass
				-10	3.89	-4.478	-0.0018	-2.5 to 2.5	Pass
				0	3.89	-7.668	-0.0030	-2.5 to 2.5	Pass
				10	3.89	-6.180	-0.0024	-2.5 to 2.5	Pass
				30	3.89	-9.327	-0.0037	-2.5 to 2.5	Pass
				40	3.89	-1.516	-0.0006	-2.5 to 2.5	Pass
				50	3.89	-4.878	-0.0019	-2.5 to 2.5	Pass
	2560	100	0	20	3.31	-8.898	-0.0035	-2.5 to 2.5	Pass
					3.89	-6.108	-0.0024	-2.5 to 2.5	Pass
					4.47	-9.713	-0.0038	-2.5 to 2.5	Pass
				-30	3.89	-2.918	-0.0011	-2.5 to 2.5	Pass
				-20	3.89	-6.838	-0.0027	-2.5 to 2.5	Pass
				-10	3.89	-3.490	-0.0014	-2.5 to 2.5	Pass
				0	3.89	-4.964	-0.0019	-2.5 to 2.5	Pass
				10	3.89	-8.941	-0.0035	-2.5 to 2.5	Pass
				30	3.89	-3.161	-0.0012	-2.5 to 2.5	Pass
				40	3.89	-1.874	-0.0007	-2.5 to 2.5	Pass
				50	3.89	-8.254	-0.0032	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	25	0	Refer To Test Graph		Pass
16QAM	2535	25	0	Refer To Test Graph		Pass

3.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	50	0	Refer To Test Graph		Pass
16QAM	2535	50	0	Refer To Test Graph		Pass

3.1.3 B7_15MHz

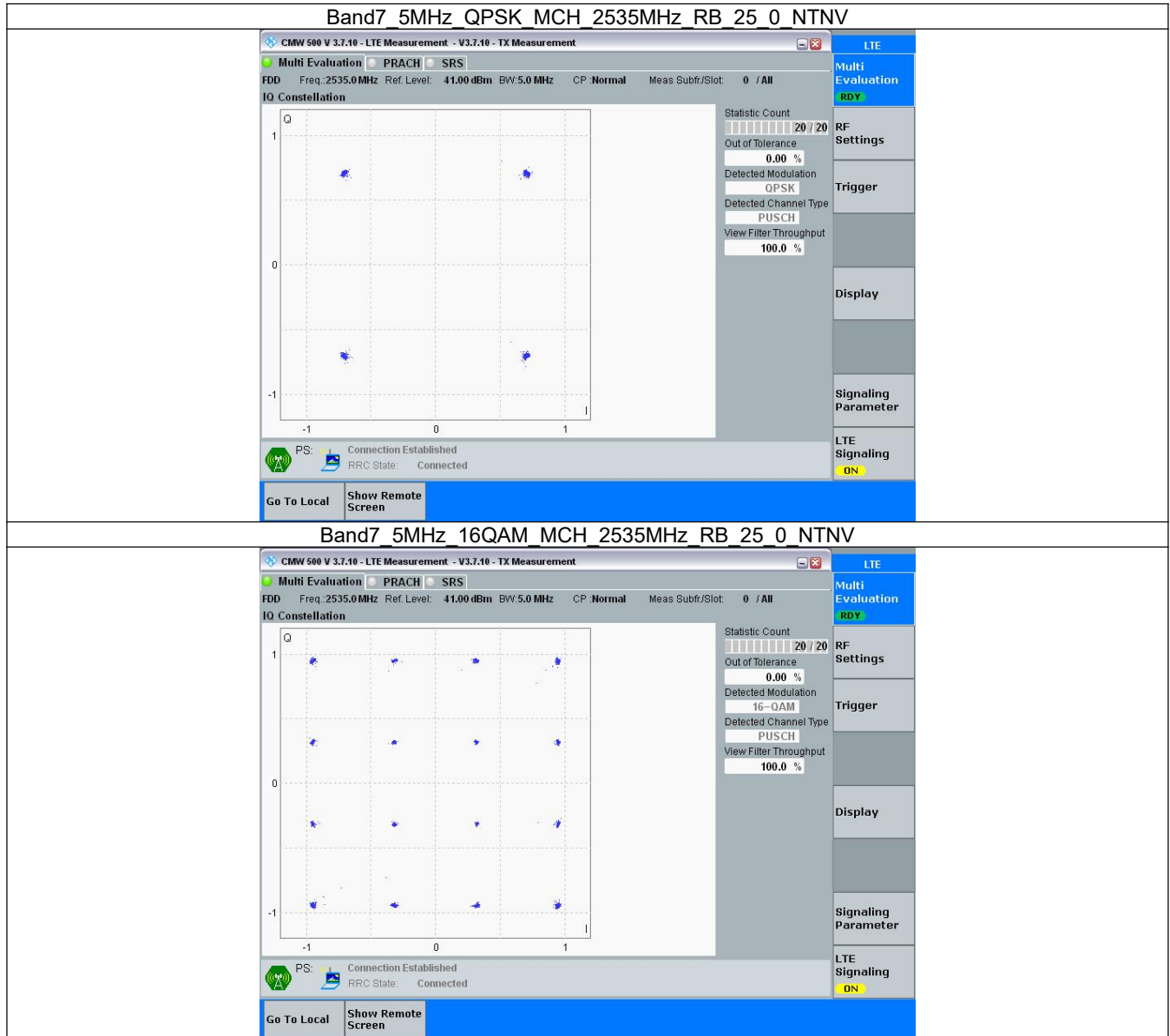
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

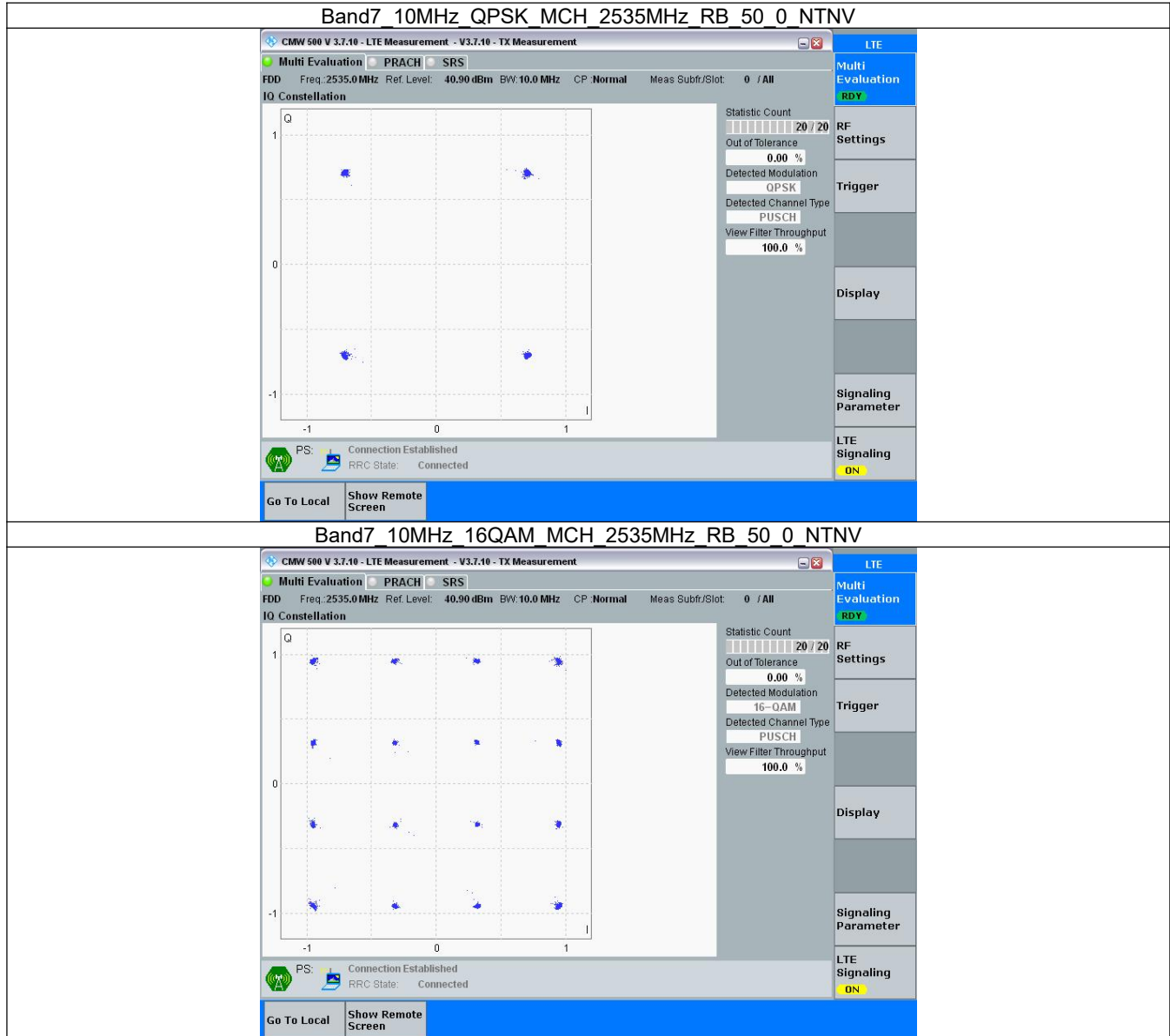
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

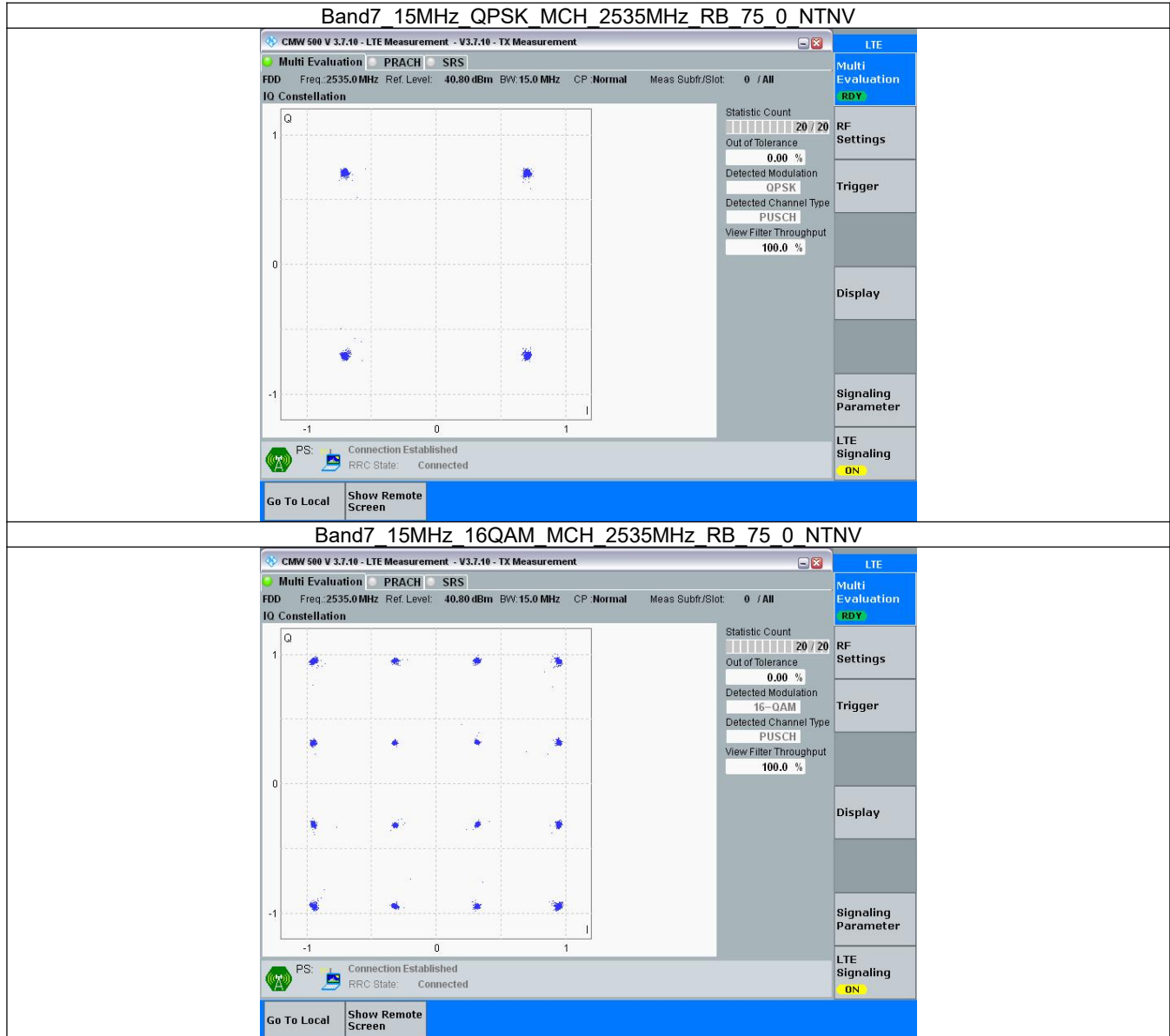
3.2.1 B7_5MHz



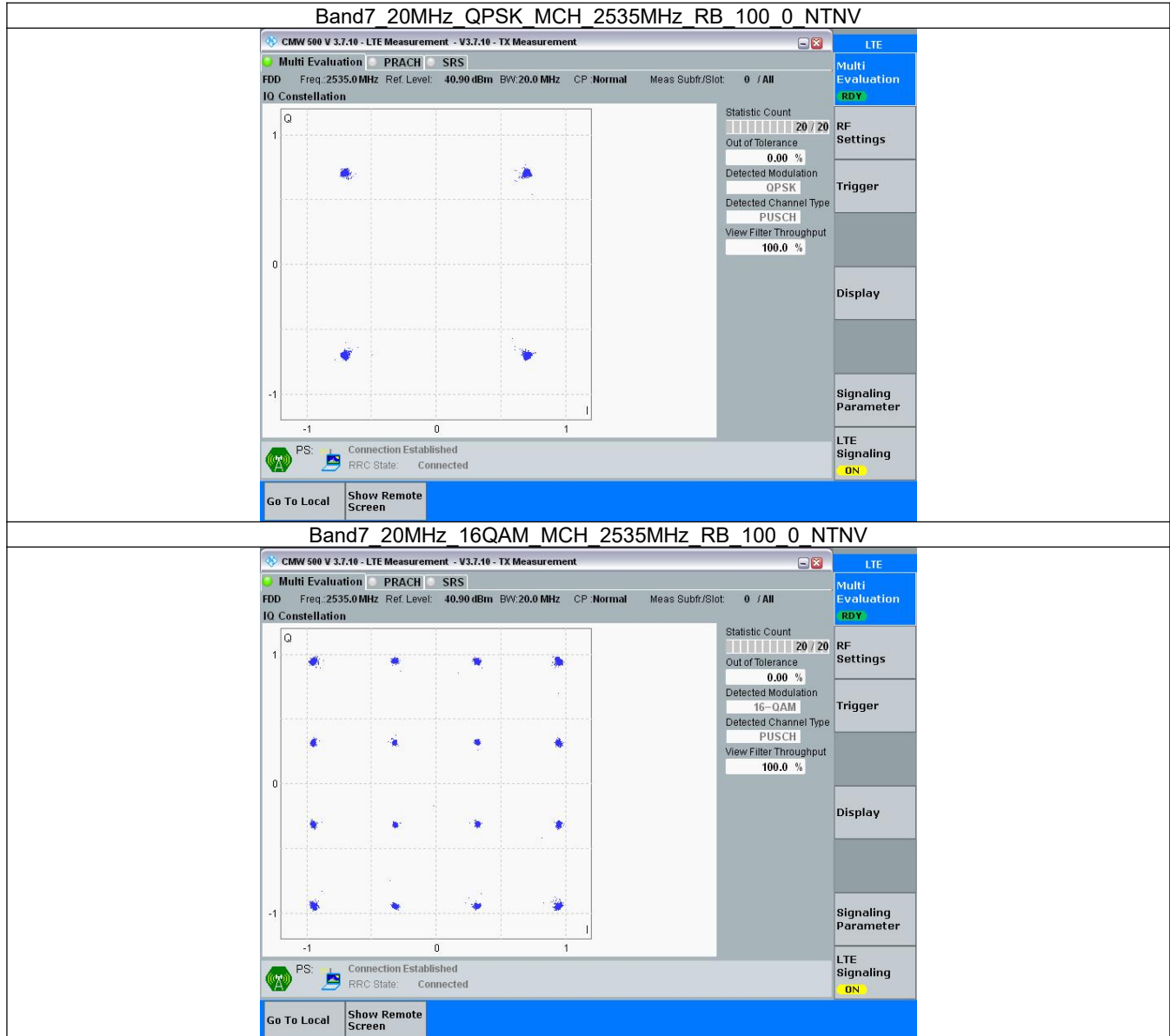
3.2.2 B7_10MHz



3.2.3 B7_15MHz



3.2.4 B7_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band7_OBW

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.539	/	Pass
		2535	25	0	4.533	/	Pass
		2567.5	25	0	4.543	/	Pass
	16QAM	2502.5	25	0	4.534	/	Pass
		2535	25	0	4.548	/	Pass
		2567.5	25	0	4.528	/	Pass
10	QPSK	2505	50	0	9.061	/	Pass
		2535	50	0	9.052	/	Pass
		2565	50	0	9.077	/	Pass
	16QAM	2505	50	0	9.061	/	Pass
		2535	50	0	9.045	/	Pass
		2565	50	0	9.046	/	Pass
15	QPSK	2507.5	75	0	13.616	/	Pass
		2535	75	0	13.553	/	Pass
		2562.5	75	0	13.591	/	Pass
	16QAM	2507.5	75	0	13.603	/	Pass
		2535	75	0	13.553	/	Pass
		2562.5	75	0	13.545	/	Pass
20	QPSK	2510	100	0	18.095	/	Pass
		2535	100	0	18.071	/	Pass
		2560	100	0	18.071	/	Pass
	16QAM	2510	100	0	18.102	/	Pass
		2535	100	0	18.106	/	Pass
		2560	100	0	18.116	/	Pass

4.1.2 Band7_XDB

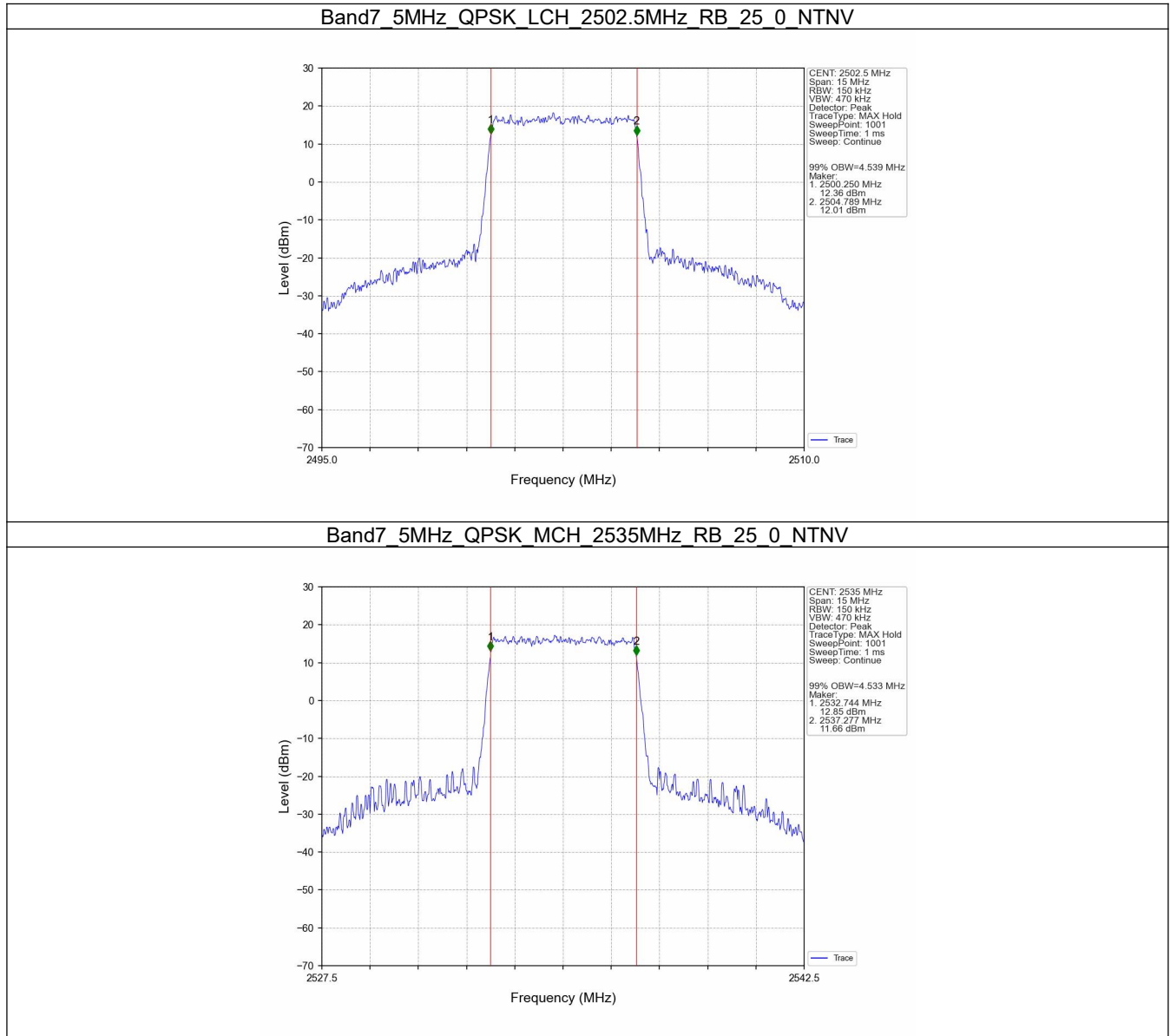
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.001	/	Pass
		2535	25	0	5.011	/	Pass
		2567.5	25	0	5.028	/	Pass
	16QAM	2502.5	25	0	5.059	/	Pass
		2535	25	0	5.020	/	Pass
		2567.5	25	0	5.020	/	Pass
10	QPSK	2505	50	0	9.886	/	Pass
		2535	50	0	9.849	/	Pass
		2565	50	0	9.977	/	Pass
	16QAM	2505	50	0	9.921	/	Pass
		2535	50	0	9.907	/	Pass
		2565	50	0	9.885	/	Pass
15	QPSK	2507.5	75	0	14.969	/	Pass
		2535	75	0	14.884	/	Pass
		2562.5	75	0	14.895	/	Pass
	16QAM	2507.5	75	0	14.955	/	Pass
		2535	75	0	14.919	/	Pass
		2562.5	75	0	14.882	/	Pass
20	QPSK	2510	100	0	19.689	/	Pass



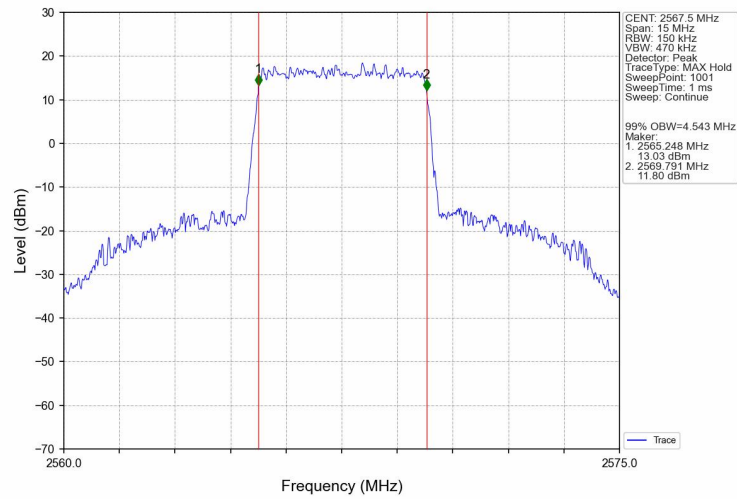
		2535	100	0	19.767	/	Pass
		2560	100	0	19.801	/	Pass
	16QAM	2510	100	0	19.830	/	Pass
		2535	100	0	19.811	/	Pass
		2560	100	0	19.726	/	Pass

4.2 Test Graph

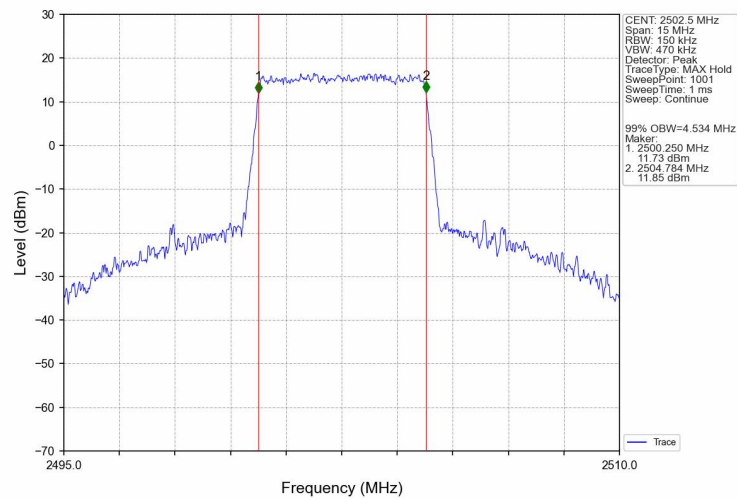
4.2.1 Band7_OBW



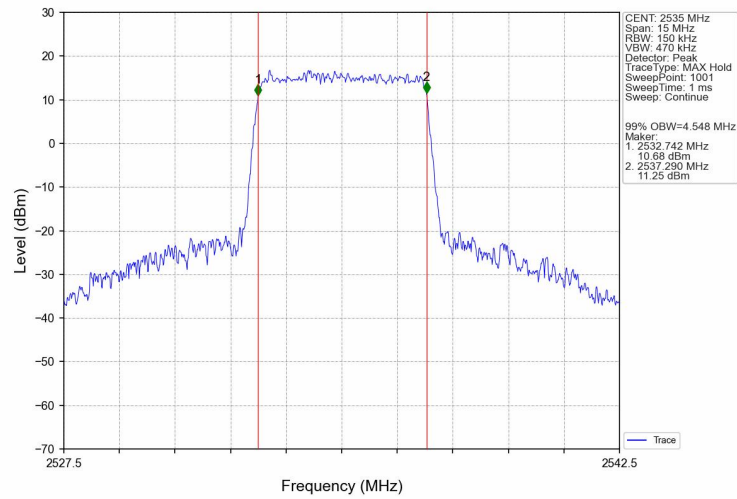
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



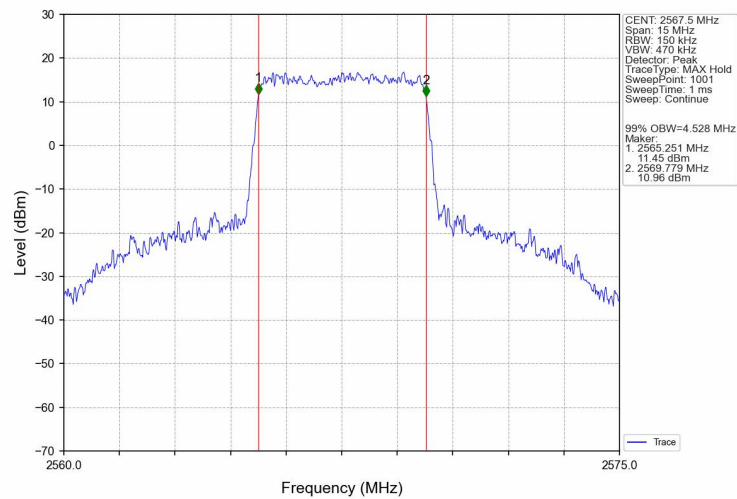
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



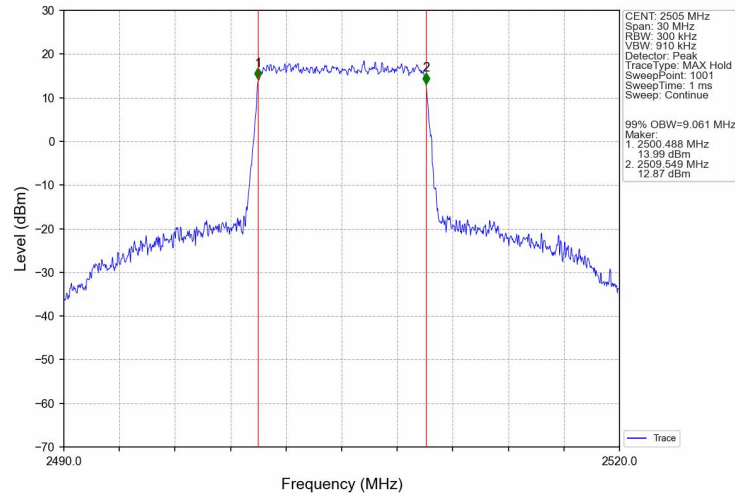
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



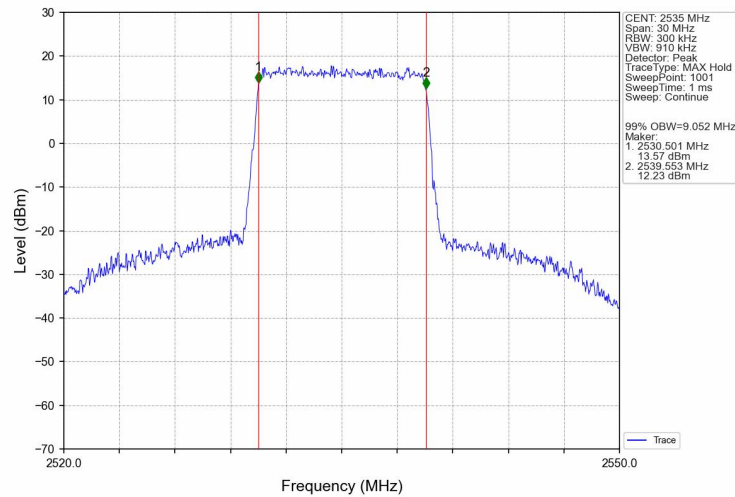
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



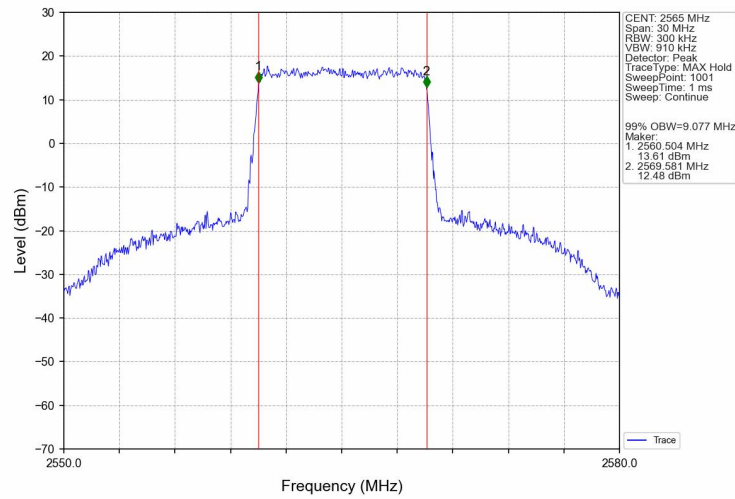
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



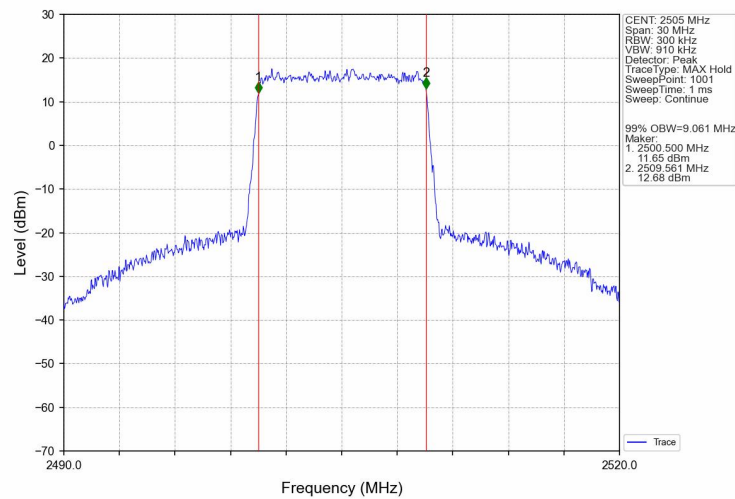
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



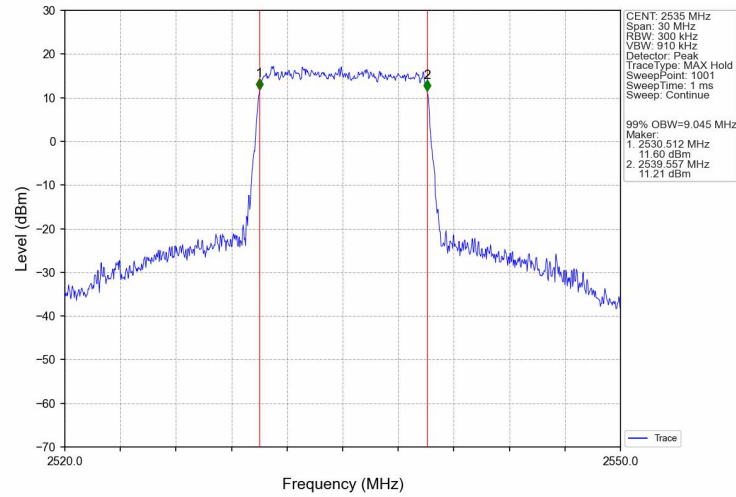
Band7 10MHz QPSK HCH 2565MHz RB 50_0 NTN



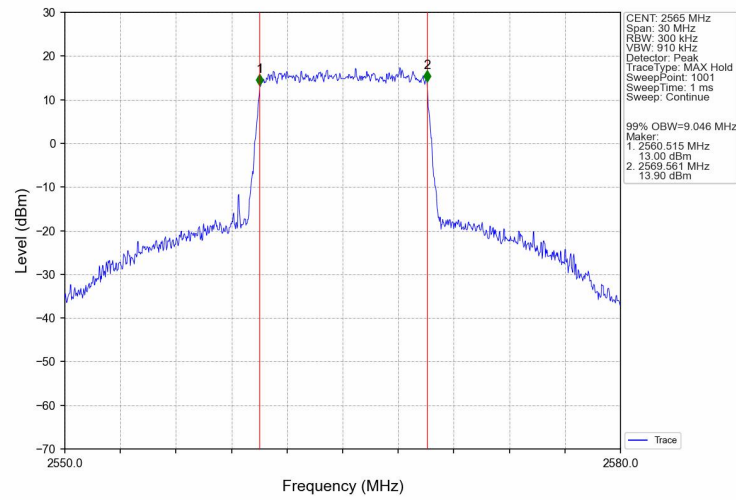
Band7 10MHz 16QAM LCH 2505MHz RB 50_0 NTN



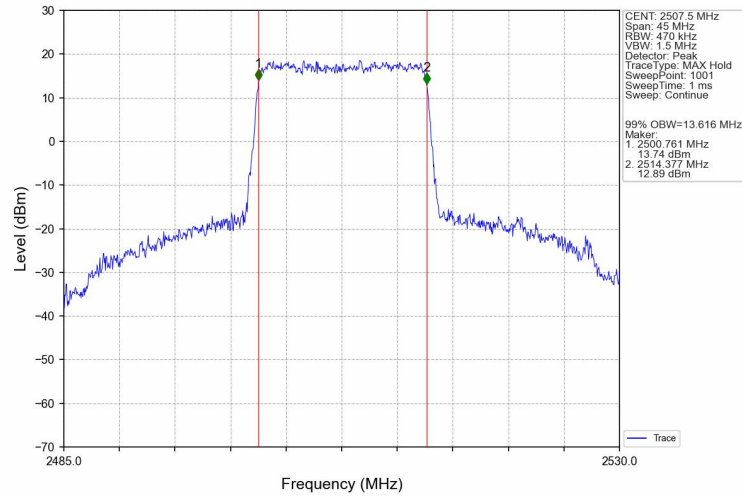
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



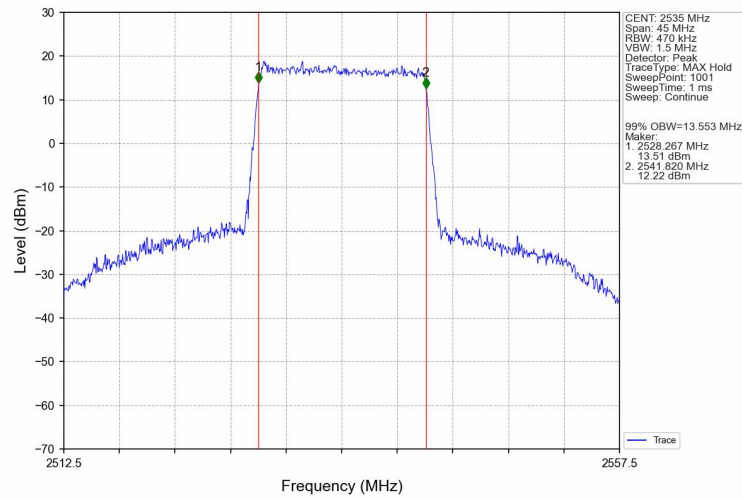
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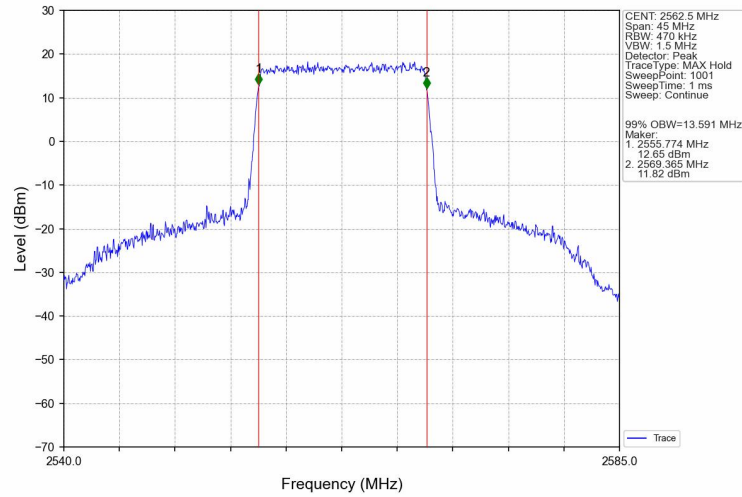
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



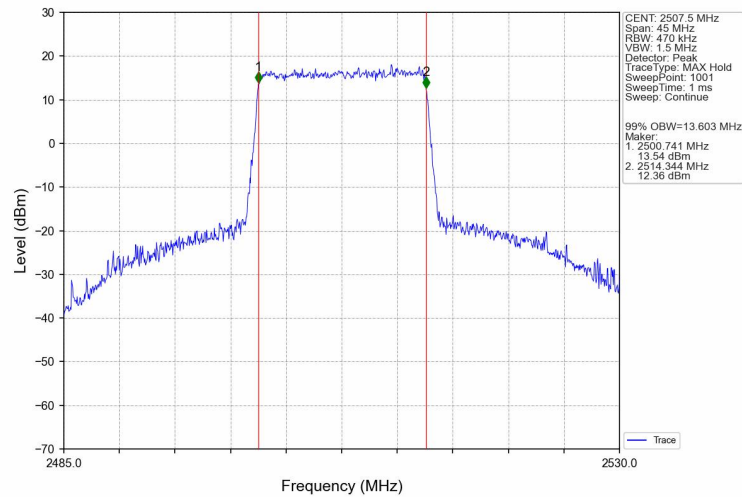
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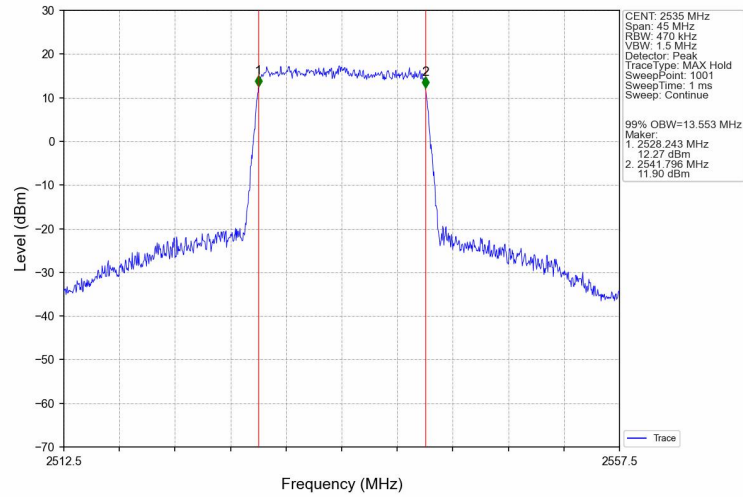
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



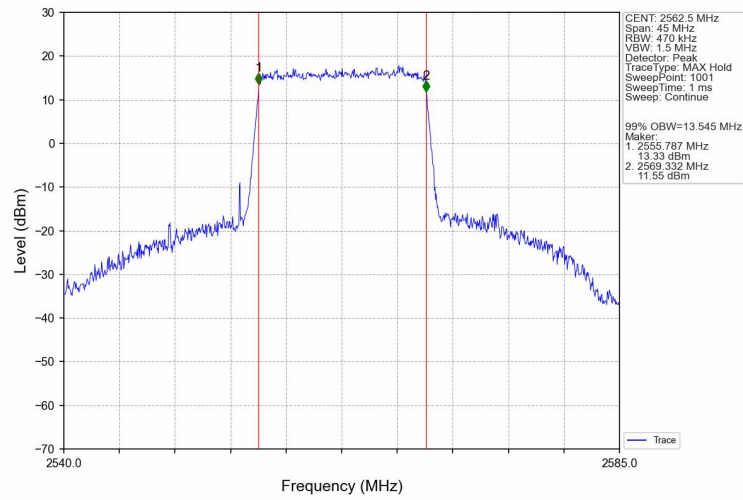
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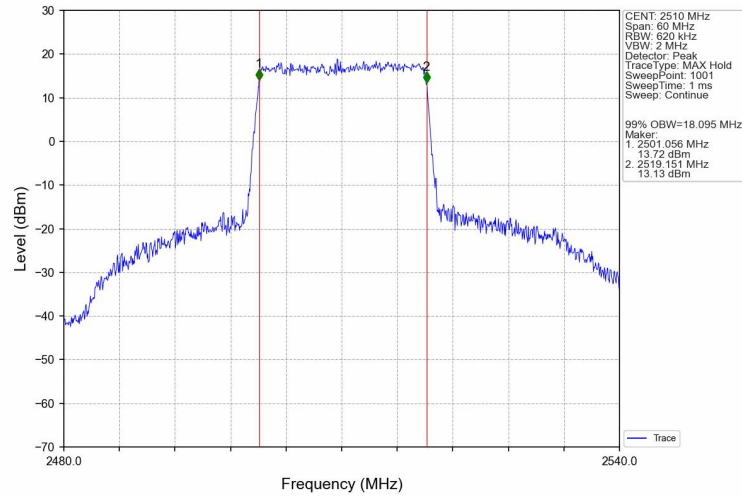
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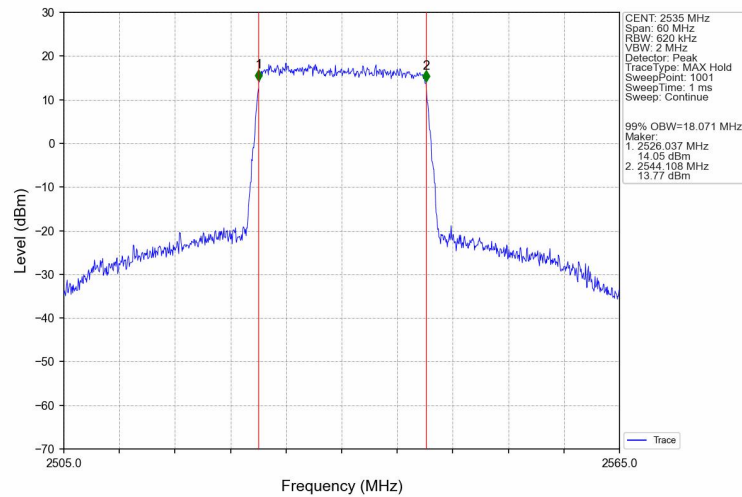
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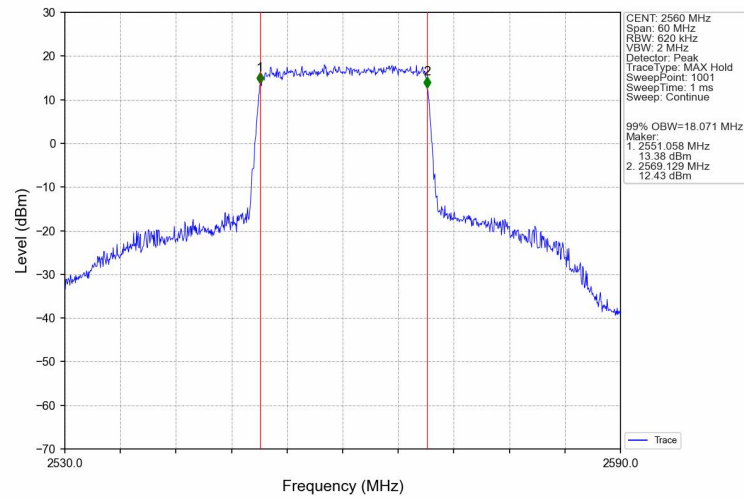
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



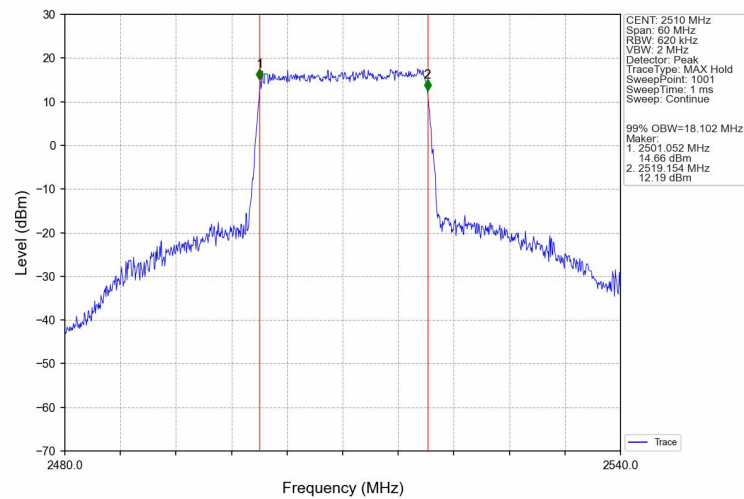
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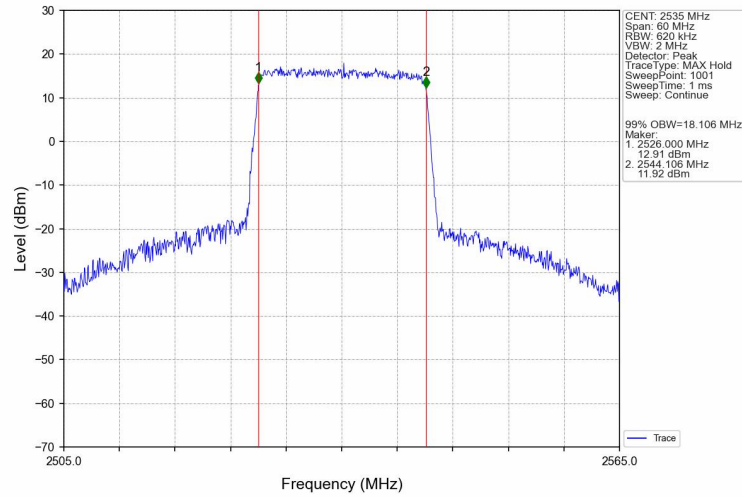
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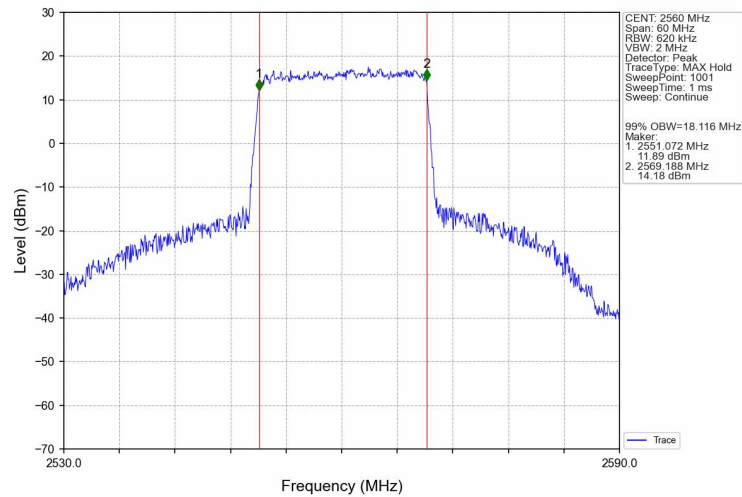
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Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

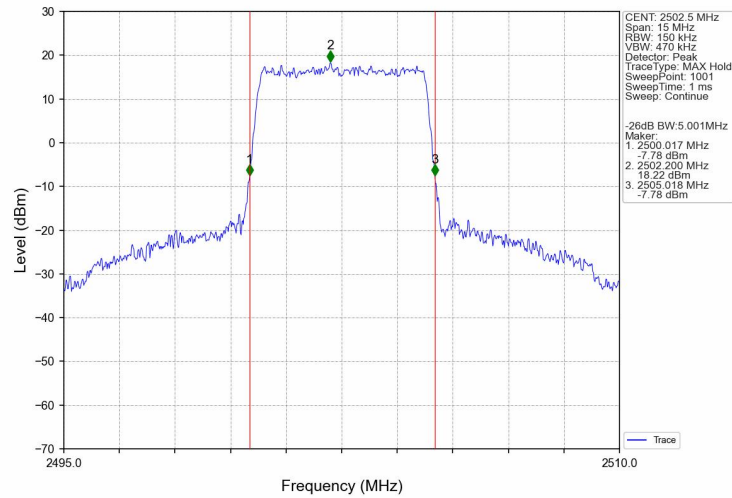


Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV

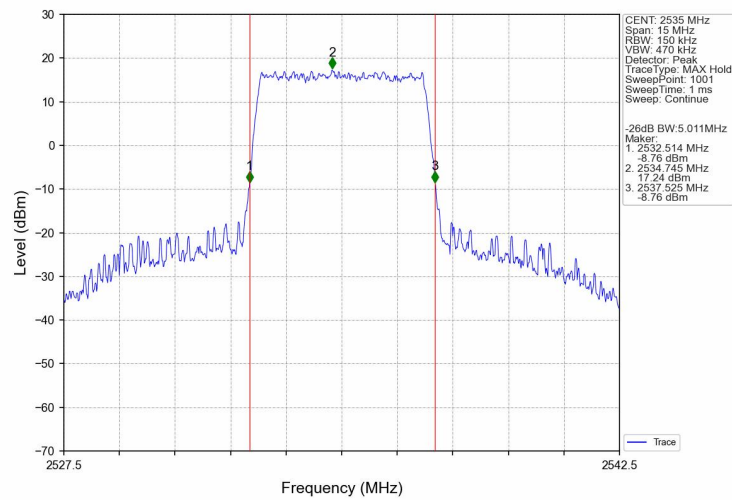


4.2.2 Band7_XDB

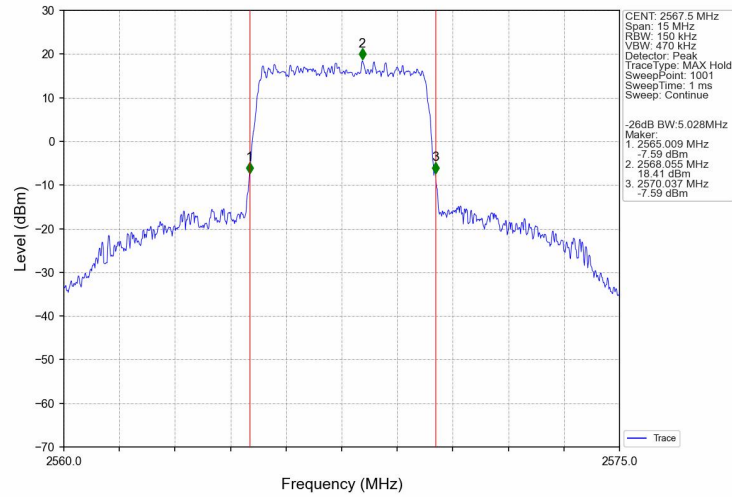
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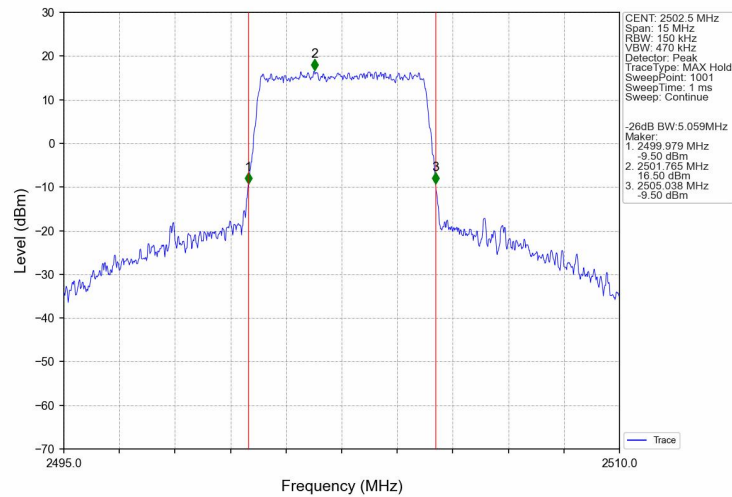
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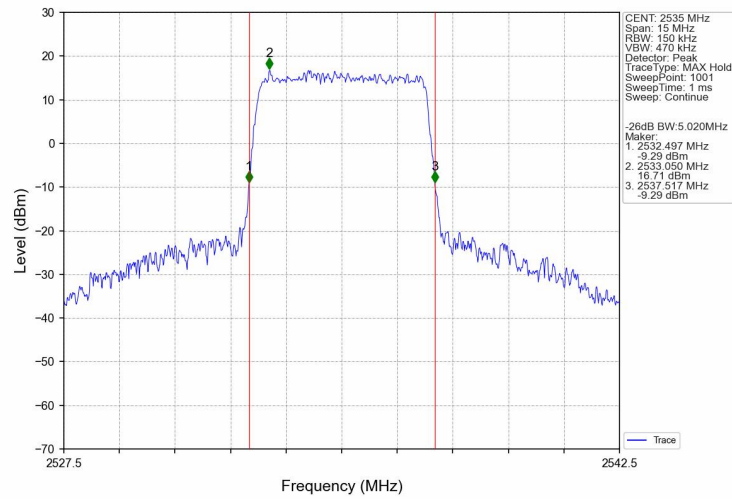
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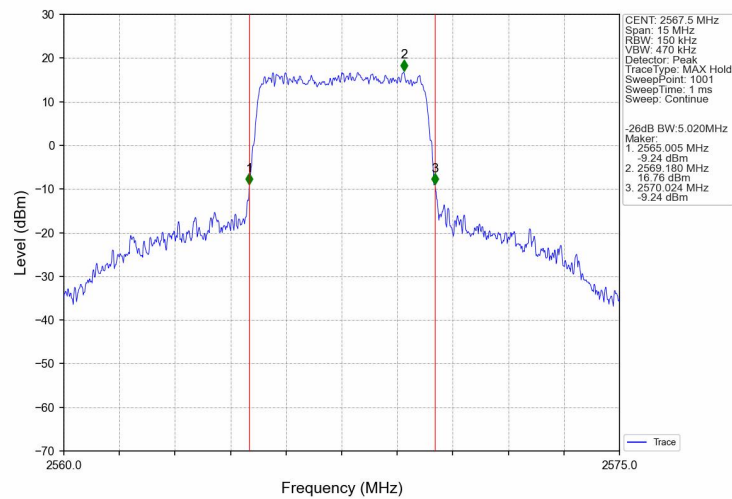
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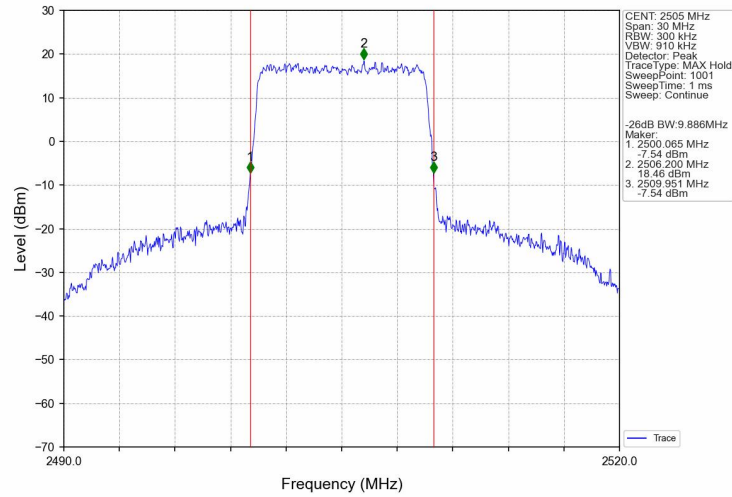
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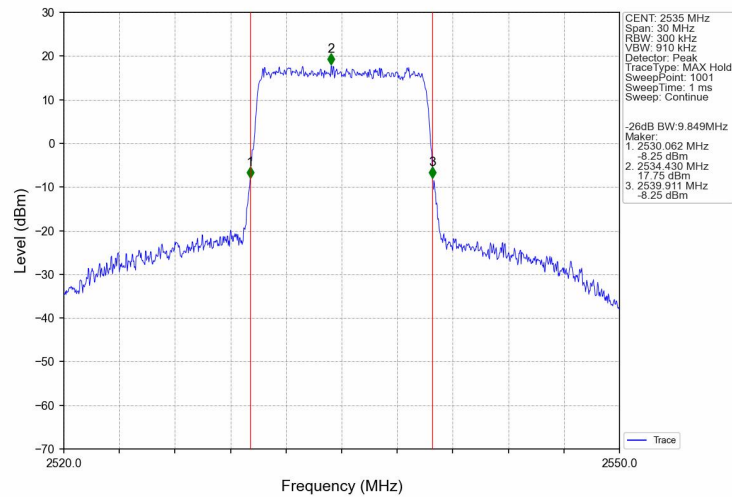
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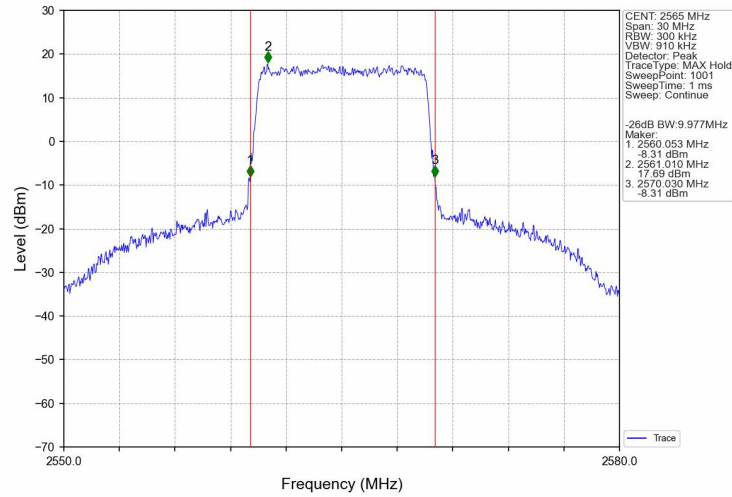
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



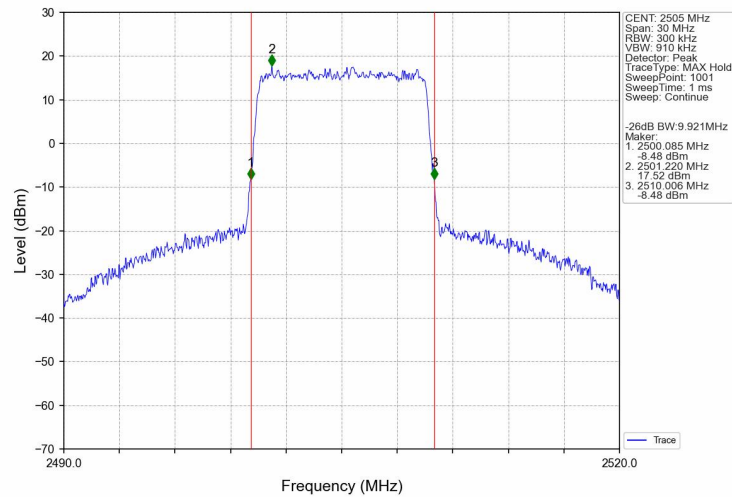
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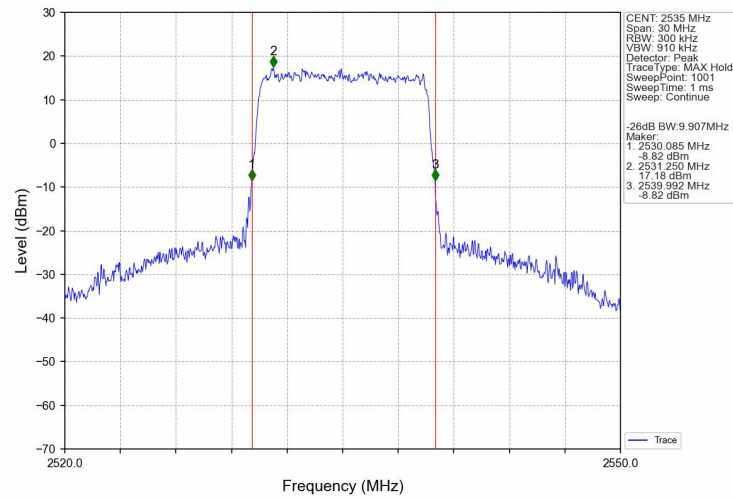
Band7 10MHz QPSK HCH 2565MHz RB 50_0 NTN



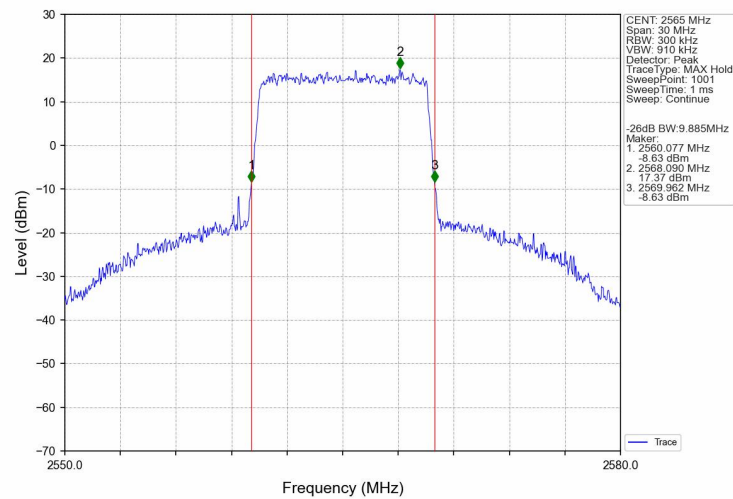
Band7 10MHz 16QAM LCH 2505MHz RB 50_0 NTN



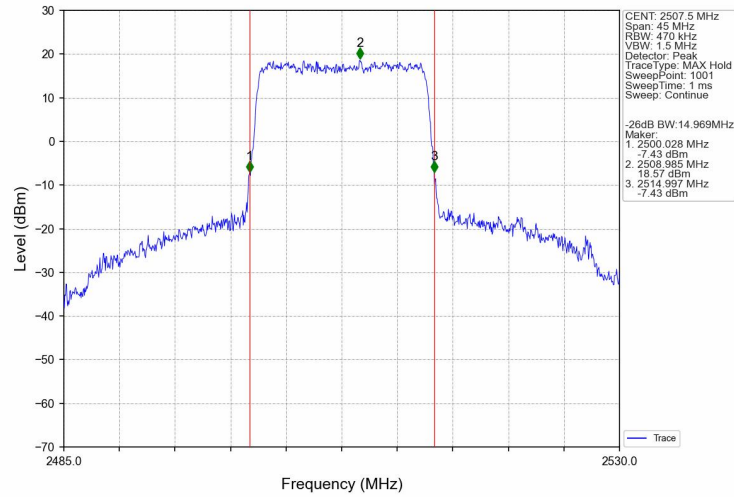
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



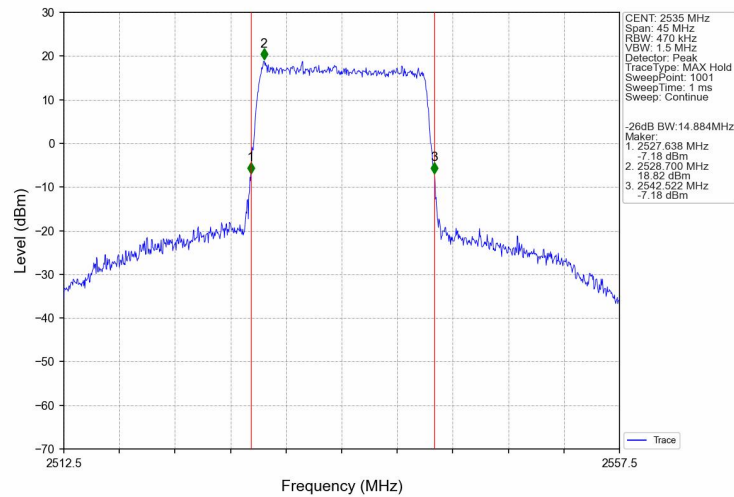
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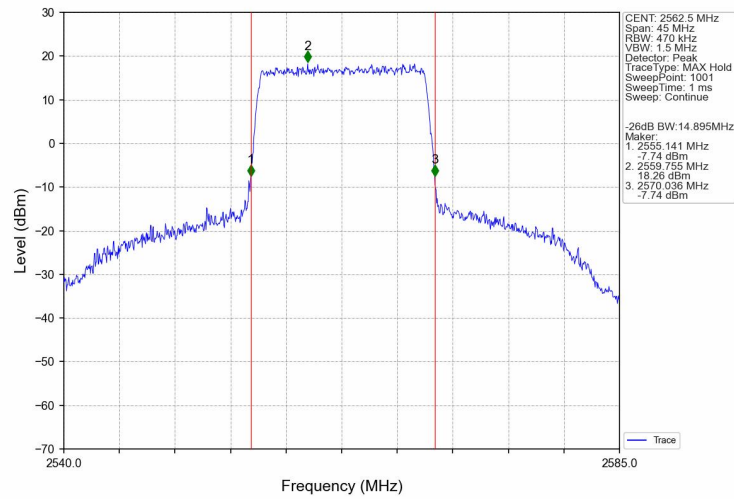
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



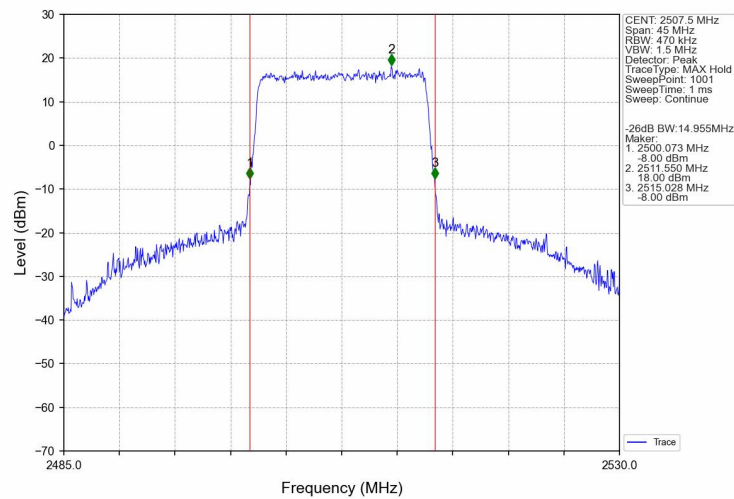
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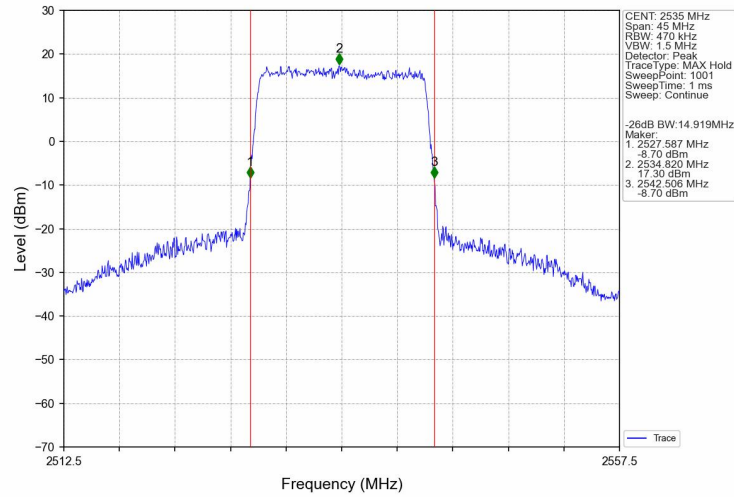
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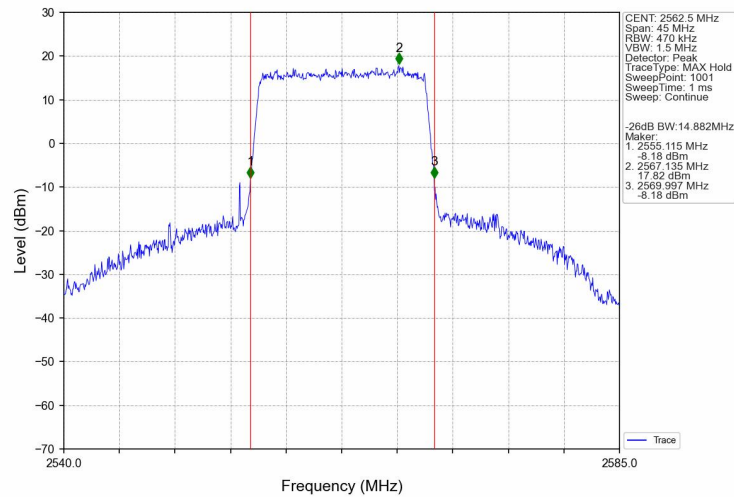
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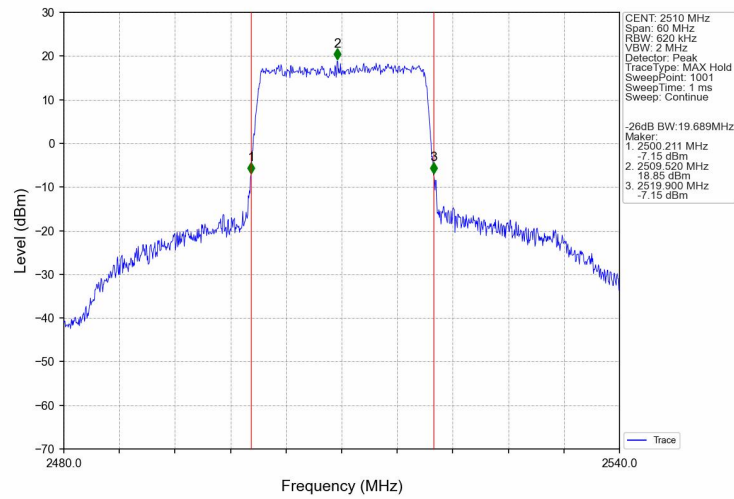
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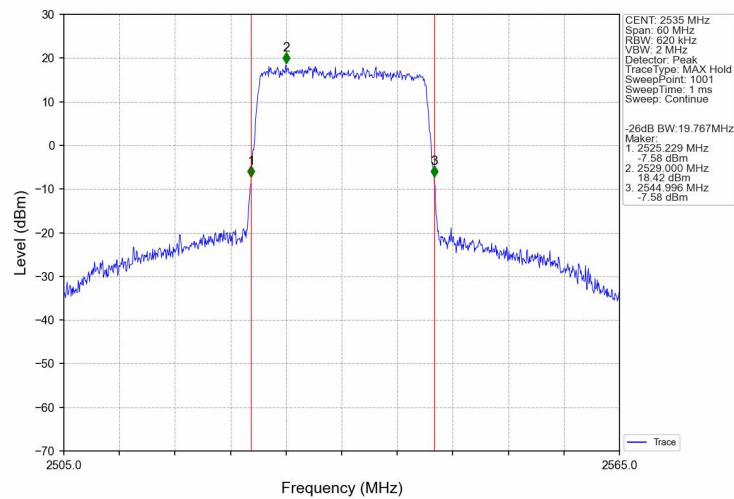
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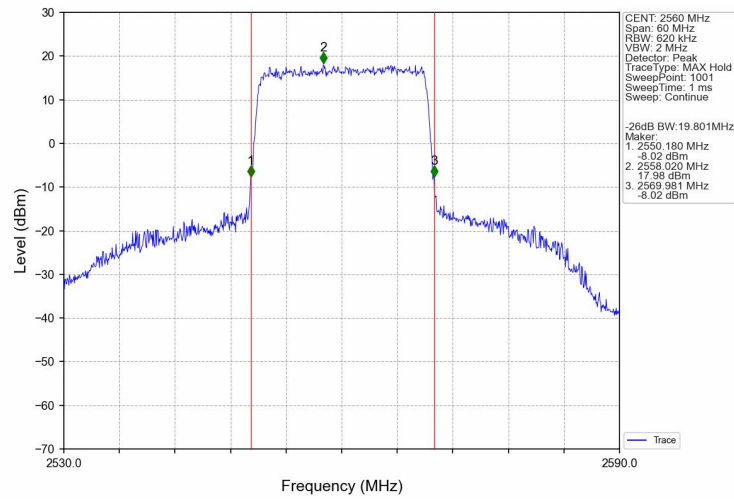
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



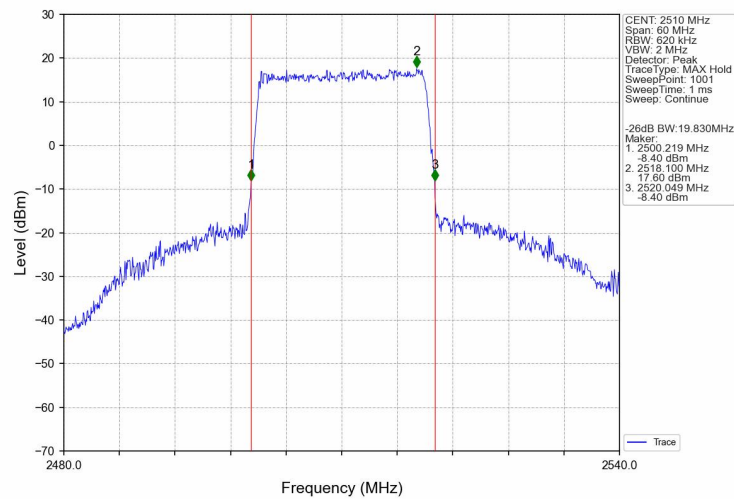
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



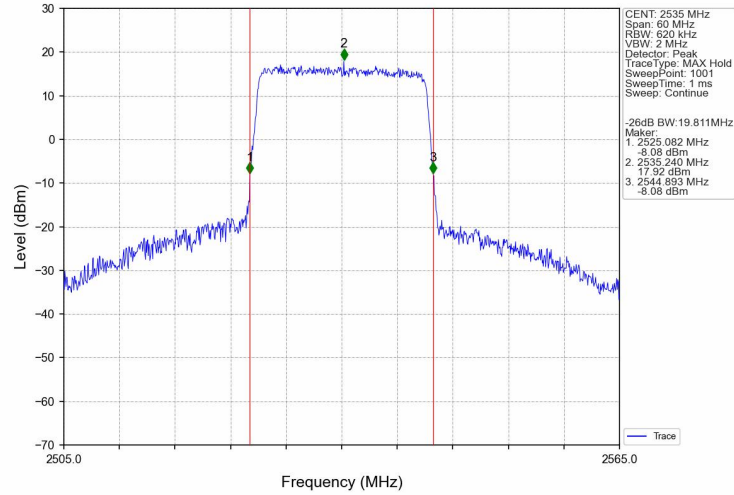
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



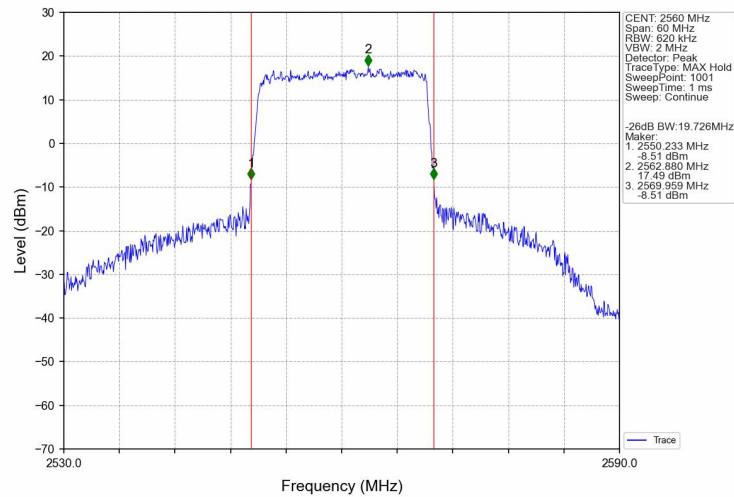
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.23	<=13	Pass
	2535	25	0	5.44	<=13	Pass
	2567.5	25	0	5.04	<=13	Pass
16QAM	2502.5	25	0	5.94	<=13	Pass
	2535	25	0	6.12	<=13	Pass
	2567.5	25	0	5.73	<=13	Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.26	<=13	Pass
	2535	50	0	5.39	<=13	Pass
	2565	50	0	5.08	<=13	Pass
16QAM	2505	50	0	6.01	<=13	Pass
	2535	50	0	6.15	<=13	Pass
	2565	50	0	5.82	<=13	Pass

5.1.3 B7_15MHz

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.09	<=13	Pass
	2535	75	0	5.11	<=13	Pass
	2562.5	75	0	5.00	<=13	Pass
16QAM	2507.5	75	0	6.08	<=13	Pass
	2535	75	0	6.10	<=13	Pass
	2562.5	75	0	5.94	<=13	Pass

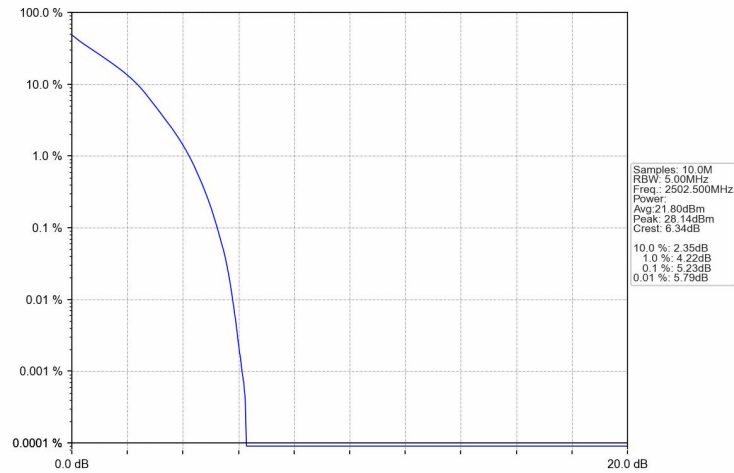
5.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.68	<=13	Pass
	2535	100	0	5.65	<=13	Pass
	2560	100	0	5.60	<=13	Pass
16QAM	2510	100	0	6.56	<=13	Pass
	2535	100	0	6.55	<=13	Pass
	2560	100	0	6.53	<=13	Pass

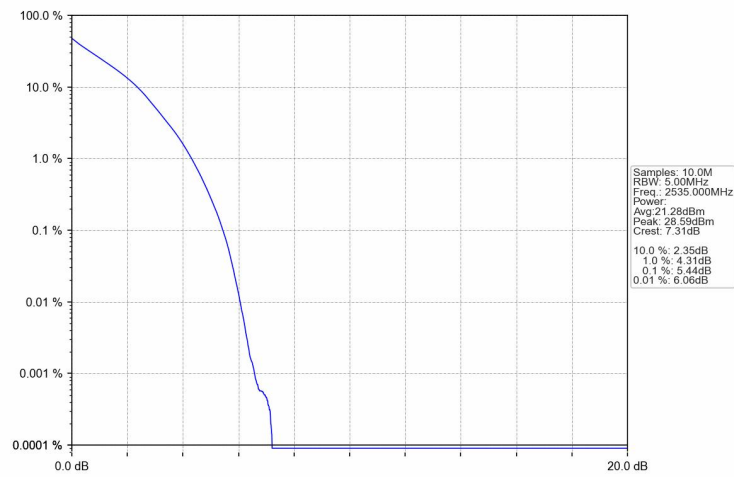
5.2 Test Graph

5.2.1 B7_5MHz

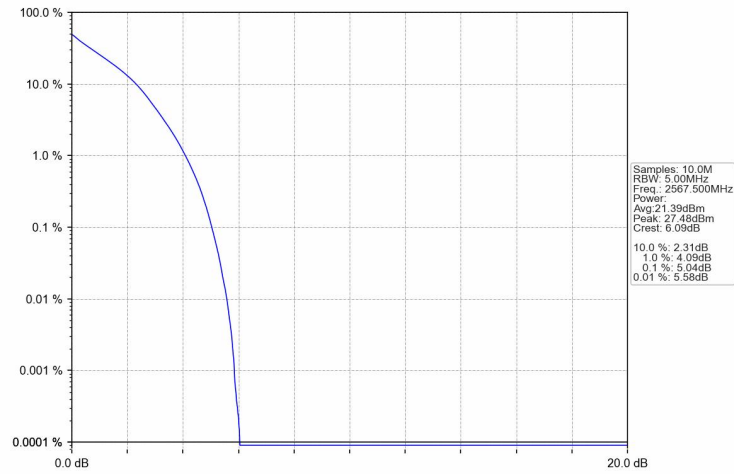
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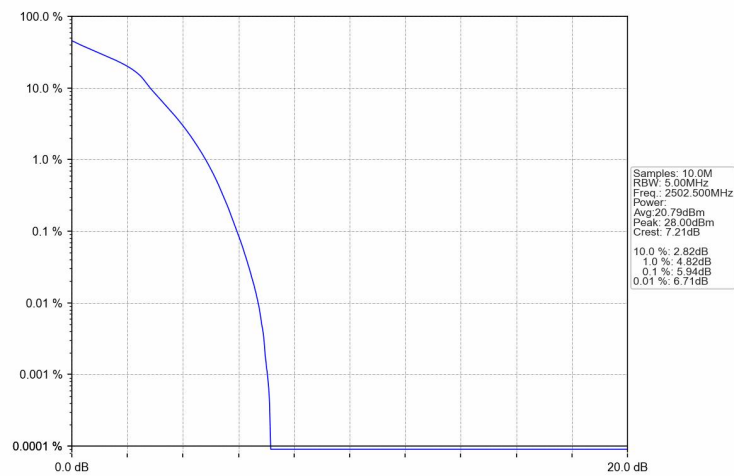
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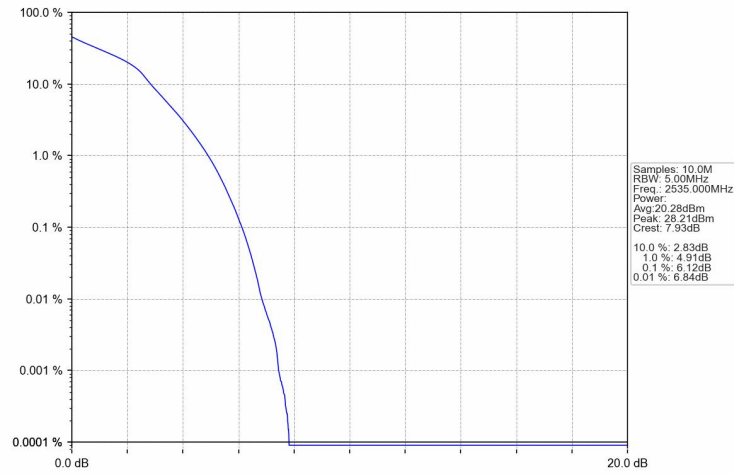
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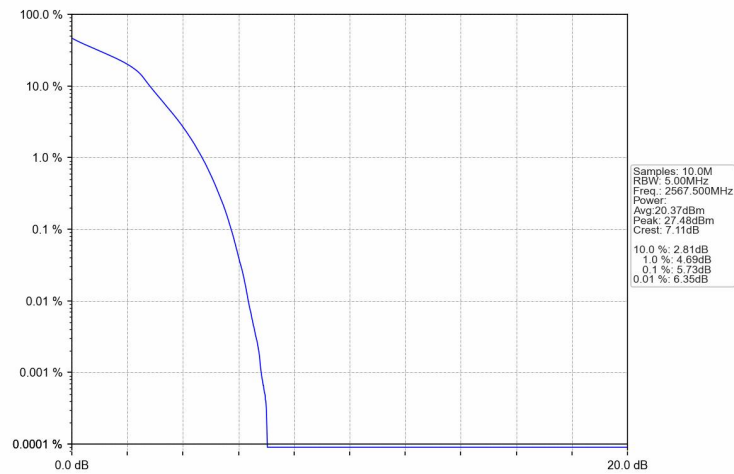
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Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV

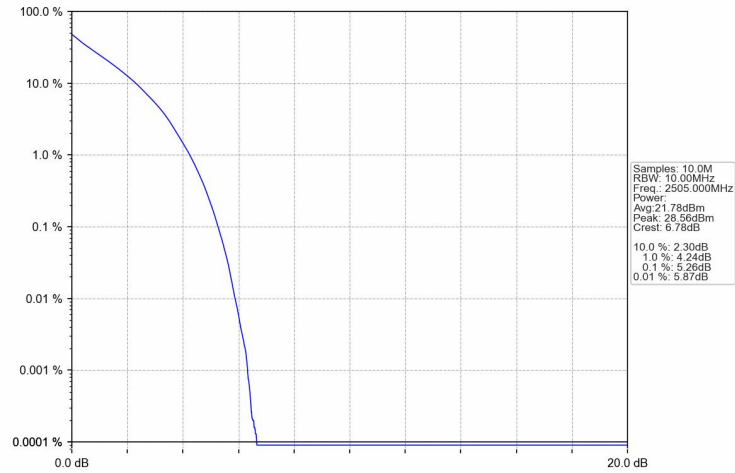


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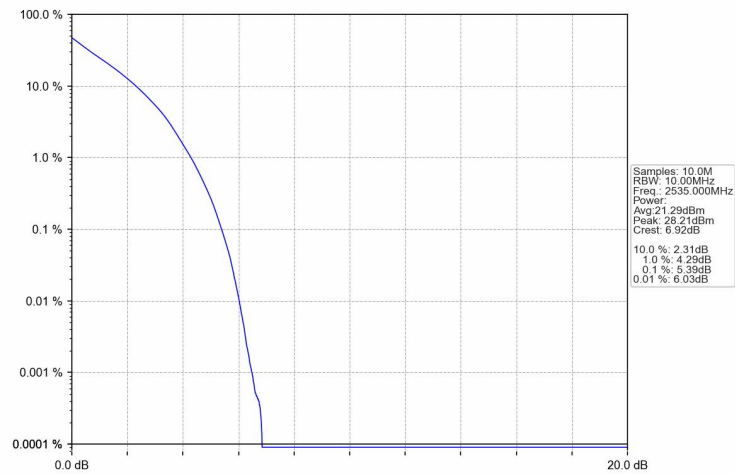


5.2.2 B7_10MHz

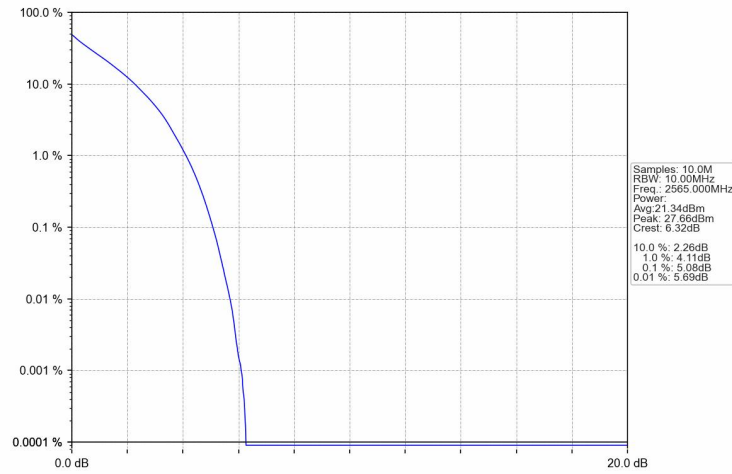
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



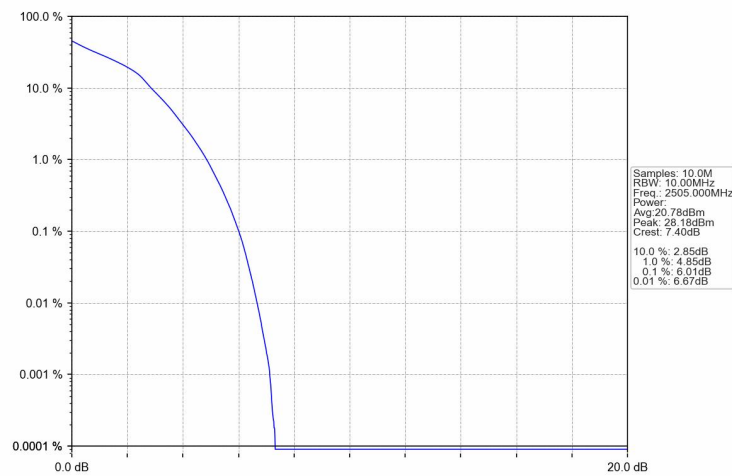
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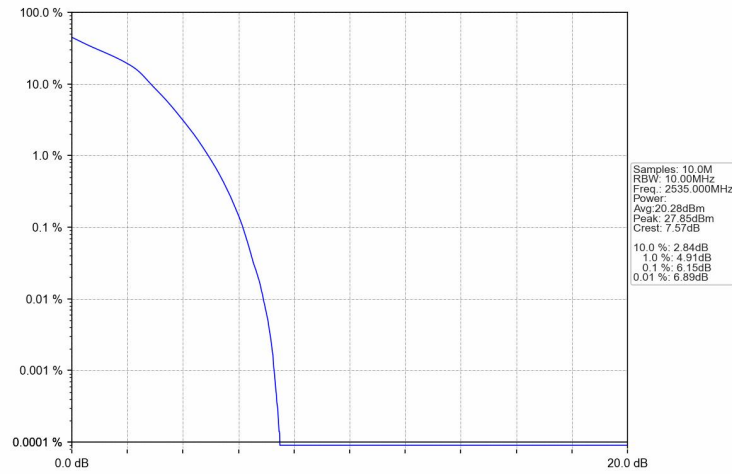
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTV



Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTV



Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV

