

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	23.27	2.56	25.83	<=33.01	Pass
			13	23.38	2.56	25.94	<=33.01	Pass
			24	23.28	2.56	25.84	<=33.01	Pass
		12	0	22.33	2.56	24.89	<=33.01	Pass
			6	22.38	2.56	24.94	<=33.01	Pass
			13	22.33	2.56	24.89	<=33.01	Pass
		25	0	22.31	2.56	24.87	<=33.01	Pass
	2535	1	0	23.10	2.56	25.66	<=33.01	Pass
			13	23.20	2.56	25.76	<=33.01	Pass
			24	23.07	2.56	25.63	<=33.01	Pass
		12	0	22.14	2.56	24.70	<=33.01	Pass
			6	22.20	2.56	24.76	<=33.01	Pass
			13	22.12	2.56	24.68	<=33.01	Pass
		25	0	22.14	2.56	24.70	<=33.01	Pass
	2567.5	1	0	22.96	2.56	25.52	<=33.01	Pass
			13	23.17	2.56	25.73	<=33.01	Pass
			24	23.06	2.56	25.62	<=33.01	Pass
		12	0	22.03	2.56	24.59	<=33.01	Pass
			6	22.15	2.56	24.71	<=33.01	Pass
			13	22.08	2.56	24.64	<=33.01	Pass
		25	0	22.04	2.56	24.60	<=33.01	Pass
16QAM	2502.5	1	0	22.32	2.56	24.88	<=33.01	Pass
			13	22.48	2.56	25.04	<=33.01	Pass
			24	22.32	2.56	24.88	<=33.01	Pass
		12	0	21.26	2.56	23.82	<=33.01	Pass
			6	21.32	2.56	23.88	<=33.01	Pass
			13	21.27	2.56	23.83	<=33.01	Pass
		25	0	21.30	2.56	23.86	<=33.01	Pass
	2535	1	0	22.30	2.56	24.86	<=33.01	Pass
			13	22.44	2.56	25.00	<=33.01	Pass
			24	22.25	2.56	24.81	<=33.01	Pass
		12	0	21.18	2.56	23.74	<=33.01	Pass
			6	21.20	2.56	23.76	<=33.01	Pass
			13	21.14	2.56	23.70	<=33.01	Pass
		25	0	21.12	2.56	23.68	<=33.01	Pass
	2567.5	1	0	21.77	2.56	24.33	<=33.01	Pass
			13	21.94	2.56	24.50	<=33.01	Pass
			24	21.85	2.56	24.41	<=33.01	Pass
		12	0	21.01	2.56	23.57	<=33.01	Pass
			6	21.08	2.56	23.64	<=33.01	Pass
			13	21.02	2.56	23.58	<=33.01	Pass
		25	0	21.06	2.56	23.62	<=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	23.34	2.56	25.90	<=33.01	Pass
			25	23.51	2.56	26.07	<=33.01	Pass
			49	23.34	2.56	25.90	<=33.01	Pass
		25	0	22.33	2.56	24.89	<=33.01	Pass
			13	22.35	2.56	24.91	<=33.01	Pass
			25	22.33	2.56	24.89	<=33.01	Pass
		50	0	22.34	2.56	24.90	<=33.01	Pass
			0	23.16	2.56	25.72	<=33.01	Pass
			25	23.29	2.56	25.85	<=33.01	Pass
	2535	1	49	23.14	2.56	25.70	<=33.01	Pass
			0	22.19	2.56	24.75	<=33.01	Pass
			13	22.17	2.56	24.73	<=33.01	Pass
		25	25	22.13	2.56	24.69	<=33.01	Pass
			0	22.16	2.56	24.72	<=33.01	Pass
			0	23.04	2.56	25.60	<=33.01	Pass
		25	25	23.24	2.56	25.80	<=33.01	Pass
			49	23.16	2.56	25.72	<=33.01	Pass
			0	22.02	2.56	24.58	<=33.01	Pass
16QAM	2505	1	13	22.09	2.56	24.65	<=33.01	Pass
			25	22.12	2.56	24.68	<=33.01	Pass
			0	22.04	2.56	24.60	<=33.01	Pass
		25	0	22.23	2.56	24.79	<=33.01	Pass
			25	22.40	2.56	24.96	<=33.01	Pass
			49	22.29	2.56	24.85	<=33.01	Pass
		50	0	21.38	2.56	23.94	<=33.01	Pass
			13	21.40	2.56	23.96	<=33.01	Pass
			25	21.42	2.56	23.98	<=33.01	Pass
	2535	1	0	21.34	2.56	23.90	<=33.01	Pass
			0	22.29	2.56	24.85	<=33.01	Pass
			25	22.46	2.56	25.02	<=33.01	Pass
		25	49	22.26	2.56	24.82	<=33.01	Pass
			0	21.22	2.56	23.78	<=33.01	Pass
			13	21.22	2.56	23.78	<=33.01	Pass
		50	25	21.14	2.56	23.70	<=33.01	Pass
			0	21.15	2.56	23.71	<=33.01	Pass
			0	22.48	2.56	25.04	<=33.01	Pass
	2565	1	25	22.62	2.56	25.18	<=33.01	Pass
			49	22.48	2.56	25.04	<=33.01	Pass
			0	21.05	2.56	23.61	<=33.01	Pass
		25	13	21.09	2.56	23.65	<=33.01	Pass
			25	21.12	2.56	23.68	<=33.01	Pass
			0	21.02	2.56	23.58	<=33.01	Pass
		50	0	21.02	2.56	23.58	<=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	23.22	2.56	25.78	<=33.01	Pass
			38	23.35	2.56	25.91	<=33.01	Pass
			74	23.16	2.56	25.72	<=33.01	Pass
		36	0	22.38	2.56	24.94	<=33.01	Pass
			18	22.38	2.56	24.94	<=33.01	Pass
			39	22.38	2.56	24.94	<=33.01	Pass
		75	0	22.39	2.56	24.95	<=33.01	Pass
			0	23.10	2.56	25.66	<=33.01	Pass
			38	23.16	2.56	25.72	<=33.01	Pass
	2535	1	74	23.02	2.56	25.58	<=33.01	Pass
			0	22.23	2.56	24.79	<=33.01	Pass
			18	22.20	2.56	24.76	<=33.01	Pass
		36	39	22.19	2.56	24.75	<=33.01	Pass
			0	22.19	2.56	24.75	<=33.01	Pass
			0	22.92	2.56	25.48	<=33.01	Pass
		75	38	23.09	2.56	25.65	<=33.01	Pass
			74	23.05	2.56	25.61	<=33.01	Pass
			0	22.07	2.56	24.63	<=33.01	Pass
	2562.5	36	18	22.15	2.56	24.71	<=33.01	Pass
			39	22.18	2.56	24.74	<=33.01	Pass
		75	0	22.12	2.56	24.68	<=33.01	Pass
16QAM	2507.5	1	0	22.48	2.56	25.04	<=33.01	Pass
			38	22.59	2.56	25.15	<=33.01	Pass
			74	22.46	2.56	25.02	<=33.01	Pass
		36	0	21.27	2.56	23.83	<=33.01	Pass
			18	21.30	2.56	23.86	<=33.01	Pass
			39	21.27	2.56	23.83	<=33.01	Pass
		75	0	21.34	2.56	23.90	<=33.01	Pass
			0	22.24	2.56	24.80	<=33.01	Pass
			38	22.31	2.56	24.87	<=33.01	Pass
	2535	1	74	22.15	2.56	24.71	<=33.01	Pass
			0	21.20	2.56	23.76	<=33.01	Pass
			18	21.15	2.56	23.71	<=33.01	Pass
		36	39	21.10	2.56	23.66	<=33.01	Pass
			0	21.18	2.56	23.74	<=33.01	Pass
		75	0	22.35	2.56	24.91	<=33.01	Pass
			38	22.51	2.56	25.07	<=33.01	Pass
			74	22.42	2.56	24.98	<=33.01	Pass
	2562.5	36	0	21.04	2.56	23.60	<=33.01	Pass
			18	21.09	2.56	23.65	<=33.01	Pass
			39	21.13	2.56	23.69	<=33.01	Pass
		75	0	21.08	2.56	23.64	<=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	23.01	2.56	25.57	<=33.01	Pass
			50	23.37	2.56	25.93	<=33.01	Pass
			99	23.02	2.56	25.58	<=33.01	Pass
		50	0	22.19	2.56	24.75	<=33.01	Pass
			25	22.27	2.56	24.83	<=33.01	Pass
			50	22.28	2.56	24.84	<=33.01	Pass
		100	0	22.25	2.56	24.81	<=33.01	Pass
			0	22.94	2.56	25.50	<=33.01	Pass
			99	23.33	2.56	25.89	<=33.01	Pass
	2535	1	0	22.94	2.56	25.50	<=33.01	Pass
			50	23.33	2.56	25.89	<=33.01	Pass
			99	22.90	2.56	25.46	<=33.01	Pass
		50	0	22.18	2.56	24.74	<=33.01	Pass
			25	22.14	2.56	24.70	<=33.01	Pass
			50	22.02	2.56	24.58	<=33.01	Pass
		100	0	22.08	2.56	24.64	<=33.01	Pass
			0	22.78	2.56	25.34	<=33.01	Pass
			50	23.24	2.56	25.80	<=33.01	Pass
	2560	1	0	22.92	2.56	25.48	<=33.01	Pass
			50	21.92	2.56	24.48	<=33.01	Pass
			99	22.07	2.56	24.63	<=33.01	Pass
		50	0	22.04	2.56	24.60	<=33.01	Pass
			25	22.00	2.56	24.56	<=33.01	Pass
			50	22.46	2.56	25.02	<=33.01	Pass
		100	0	22.89	2.56	25.45	<=33.01	Pass
			50	22.52	2.56	25.08	<=33.01	Pass
			99	21.18	2.56	23.74	<=33.01	Pass
16QAM	2510	1	0	21.26	2.56	23.82	<=33.01	Pass
			50	21.28	2.56	23.84	<=33.01	Pass
			99	21.24	2.56	23.80	<=33.01	Pass
		50	0	22.08	2.56	24.64	<=33.01	Pass
			50	22.48	2.56	25.04	<=33.01	Pass
			99	22.05	2.56	24.61	<=33.01	Pass
		100	0	21.18	2.56	23.74	<=33.01	Pass
			25	21.17	2.56	23.73	<=33.01	Pass
			50	21.03	2.56	23.59	<=33.01	Pass
	2535	1	0	21.09	2.56	23.65	<=33.01	Pass
			50	21.95	2.56	24.51	<=33.01	Pass
			99	22.42	2.56	24.98	<=33.01	Pass
		50	0	22.09	2.56	24.65	<=33.01	Pass
			25	20.90	2.56	23.46	<=33.01	Pass
			50	21.05	2.56	23.61	<=33.01	Pass
		100	0	21.00	2.56	23.56	<=33.01	Pass
			50	20.98	2.56	23.54	<=33.01	Pass
			99	20.98	2.56	23.54	<=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	3.23	-1.931	-0.0008	-2.5 to 2.5	Pass
					3.80	-4.363	-0.0017	-2.5 to 2.5	Pass
					4.37	8.712	0.0035	-2.5 to 2.5	Pass
				-30	3.80	2.332	0.0009	-2.5 to 2.5	Pass
				-20	3.80	-0.329	-0.0001	-2.5 to 2.5	Pass
				-10	3.80	-4.163	-0.0017	-2.5 to 2.5	Pass
				0	3.80	-7.610	-0.0030	-2.5 to 2.5	Pass
				10	3.80	0.486	0.0002	-2.5 to 2.5	Pass
				30	3.80	-11.630	-0.0046	-2.5 to 2.5	Pass
				40	3.80	-7.968	-0.0032	-2.5 to 2.5	Pass
				50	3.80	-12.918	-0.0052	-2.5 to 2.5	Pass
	2535	25	0	20	3.23	-13.404	-0.0053	-2.5 to 2.5	Pass
					3.80	-3.977	-0.0016	-2.5 to 2.5	Pass
					4.37	-3.533	-0.0014	-2.5 to 2.5	Pass
				-30	3.80	2.775	0.0011	-2.5 to 2.5	Pass
				-20	3.80	-1.245	-0.0005	-2.5 to 2.5	Pass
				-10	3.80	2.475	0.0010	-2.5 to 2.5	Pass
				0	3.80	-2.217	-0.0009	-2.5 to 2.5	Pass
				10	3.80	-8.984	-0.0035	-2.5 to 2.5	Pass
				30	3.80	-6.051	-0.0024	-2.5 to 2.5	Pass
				40	3.80	1.144	0.0005	-2.5 to 2.5	Pass
				50	3.80	-6.695	-0.0026	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.23	-9.642	-0.0038	-2.5 to 2.5	Pass
					3.80	-13.418	-0.0052	-2.5 to 2.5	Pass
					4.37	-4.649	-0.0018	-2.5 to 2.5	Pass
				-30	3.80	-6.065	-0.0024	-2.5 to 2.5	Pass
				-20	3.80	-1.473	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	2.918	0.0011	-2.5 to 2.5	Pass
				0	3.80	2.217	0.0009	-2.5 to 2.5	Pass
				10	3.80	-12.259	-0.0048	-2.5 to 2.5	Pass
				30	3.80	0.243	0.0001	-2.5 to 2.5	Pass
				40	3.80	-4.163	-0.0016	-2.5 to 2.5	Pass
				50	3.80	-4.749	-0.0018	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	3.23	-3.948	-0.0016	-2.5 to 2.5	Pass
					3.80	-6.208	-0.0025	-2.5 to 2.5	Pass
					4.37	-5.937	-0.0024	-2.5 to 2.5	Pass
				-30	3.80	-8.297	-0.0033	-2.5 to 2.5	Pass
				-20	3.80	-4.749	-0.0019	-2.5 to 2.5	Pass
				-10	3.80	-3.977	-0.0016	-2.5 to 2.5	Pass
				0	3.80	-4.034	-0.0016	-2.5 to 2.5	Pass
				10	3.80	-3.719	-0.0015	-2.5 to 2.5	Pass
				30	3.80	-2.761	-0.0011	-2.5 to 2.5	Pass
				40	3.80	5.264	0.0021	-2.5 to 2.5	Pass
				50	3.80	-3.791	-0.0015	-2.5 to 2.5	Pass
	2535	25	0	20	3.23	-0.501	-0.0002	-2.5 to 2.5	Pass
					3.80	-7.811	-0.0031	-2.5 to 2.5	Pass
					4.37	-1.674	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-6.394	-0.0025	-2.5 to 2.5	Pass
				-20	3.80	6.866	0.0027	-2.5 to 2.5	Pass
				-10	3.80	-9.098	-0.0036	-2.5 to 2.5	Pass

				0	3.80	-8.984	-0.0035	-2.5 to 2.5	Pass
				10	3.80	6.080	0.0024	-2.5 to 2.5	Pass
				30	3.80	-5.908	-0.0023	-2.5 to 2.5	Pass
				40	3.80	-6.108	-0.0024	-2.5 to 2.5	Pass
				50	3.80	7.467	0.0029	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.23	0.558	0.0002	-2.5 to 2.5	Pass
					3.80	-5.679	-0.0022	-2.5 to 2.5	Pass
					4.37	-7.610	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-4.892	-0.0019	-2.5 to 2.5	Pass
				-20	3.80	-3.433	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	-2.847	-0.0011	-2.5 to 2.5	Pass
				0	3.80	-2.031	-0.0008	-2.5 to 2.5	Pass
				10	3.80	-4.005	-0.0016	-2.5 to 2.5	Pass
				30	3.80	-9.413	-0.0037	-2.5 to 2.5	Pass
				40	3.80	-2.317	-0.0009	-2.5 to 2.5	Pass
				50	3.80	1.316	0.0005	-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	3.23	-8.383	-0.0033	-2.5 to 2.5	Pass
					3.80	-7.095	-0.0028	-2.5 to 2.5	Pass
					4.37	-5.479	-0.0022	-2.5 to 2.5	Pass
				-30	3.80	-3.304	-0.0013	-2.5 to 2.5	Pass
				-20	3.80	-3.891	-0.0016	-2.5 to 2.5	Pass
				-10	3.80	-4.892	-0.0020	-2.5 to 2.5	Pass
				0	3.80	-5.665	-0.0023	-2.5 to 2.5	Pass
				10	3.80	-2.575	-0.0010	-2.5 to 2.5	Pass
				30	3.80	-5.450	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-4.206	-0.0017	-2.5 to 2.5	Pass
				50	3.80	-6.952	-0.0028	-2.5 to 2.5	Pass
	2535	50	0	20	3.23	-7.310	-0.0029	-2.5 to 2.5	Pass
					3.80	-4.177	-0.0016	-2.5 to 2.5	Pass
					4.37	-3.748	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	-7.095	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-8.984	-0.0035	-2.5 to 2.5	Pass
				-10	3.80	-5.808	-0.0023	-2.5 to 2.5	Pass
				0	3.80	-5.221	-0.0021	-2.5 to 2.5	Pass
				10	3.80	-6.466	-0.0026	-2.5 to 2.5	Pass
				30	3.80	5.221	0.0021	-2.5 to 2.5	Pass
				40	3.80	5.379	0.0021	-2.5 to 2.5	Pass
				50	3.80	-3.977	-0.0016	-2.5 to 2.5	Pass
	2565	50	0	20	3.23	-5.679	-0.0022	-2.5 to 2.5	Pass
					3.80	-3.719	-0.0014	-2.5 to 2.5	Pass
					4.37	-2.418	-0.0009	-2.5 to 2.5	Pass
				-30	3.80	-2.346	-0.0009	-2.5 to 2.5	Pass
				-20	3.80	-6.266	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-4.878	-0.0019	-2.5 to 2.5	Pass
				0	3.80	-1.588	-0.0006	-2.5 to 2.5	Pass
				10	3.80	-3.948	-0.0015	-2.5 to 2.5	Pass
				30	3.80	-5.350	-0.0021	-2.5 to 2.5	Pass
				40	3.80	-9.427	-0.0037	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.23	8.326	0.0033	-2.5 to 2.5	Pass
					3.80	-3.419	-0.0014	-2.5 to 2.5	Pass
					4.37	7.710	0.0031	-2.5 to 2.5	Pass
				-30	3.80	-1.116	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	-1.159	-0.0005	-2.5 to 2.5	Pass
				-10	3.80	5.150	0.0021	-2.5 to 2.5	Pass
				0	3.80	-7.381	-0.0029	-2.5 to 2.5	Pass
				10	3.80	4.263	0.0017	-2.5 to 2.5	Pass
				30	3.80	1.574	0.0006	-2.5 to 2.5	Pass
				40	3.80	0.401	0.0002	-2.5 to 2.5	Pass
				50	3.80	3.247	0.0013	-2.5 to 2.5	Pass
	2535	50	0	20	3.23	2.890	0.0011	-2.5 to 2.5	Pass
					3.80	-2.317	-0.0009	-2.5 to 2.5	Pass
					4.37	0.901	0.0004	-2.5 to 2.5	Pass
				-30	3.80	1.230	0.0005	-2.5 to 2.5	Pass
				-20	3.80	0.758	0.0003	-2.5 to 2.5	Pass
				-10	3.80	-5.636	-0.0022	-2.5 to 2.5	Pass
				0	3.80	-0.644	-0.0003	-2.5 to 2.5	Pass
				10	3.80	-6.852	-0.0027	-2.5 to 2.5	Pass
				30	3.80	-0.458	-0.0002	-2.5 to 2.5	Pass
				40	3.80	-5.622	-0.0022	-2.5 to 2.5	Pass
				50	3.80	-9.856	-0.0039	-2.5 to 2.5	Pass

	2565	50	0	20	3.23	-3.490	-0.0014	-2.5 to 2.5	Pass
					3.80	-5.121	-0.0020	-2.5 to 2.5	Pass
					4.37	-0.401	-0.0002	-2.5 to 2.5	Pass
				-30	3.80	-1.631	-0.0006	-2.5 to 2.5	Pass
				-20	3.80	-3.405	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	0.958	0.0004	-2.5 to 2.5	Pass
				0	3.80	-3.591	-0.0014	-2.5 to 2.5	Pass
				10	3.80	-4.778	-0.0019	-2.5 to 2.5	Pass
				30	3.80	6.680	0.0026	-2.5 to 2.5	Pass
				40	3.80	-12.746	-0.0050	-2.5 to 2.5	Pass
				50	3.80	-1.087	-0.0004	-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	3.23	-9.899	-0.0039	-2.5 to 2.5	Pass
					3.80	-0.315	-0.0001	-2.5 to 2.5	Pass
					4.37	-5.450	-0.0022	-2.5 to 2.5	Pass
				-30	3.80	-3.605	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	-9.184	-0.0037	-2.5 to 2.5	Pass
				-10	3.80	-1.044	-0.0004	-2.5 to 2.5	Pass
				0	3.80	-5.221	-0.0021	-2.5 to 2.5	Pass
				10	3.80	-9.098	-0.0036	-2.5 to 2.5	Pass
				30	3.80	-6.037	-0.0024	-2.5 to 2.5	Pass
				40	3.80	-2.604	-0.0010	-2.5 to 2.5	Pass
				50	3.80	7.553	0.0030	-2.5 to 2.5	Pass
	2535	75	0	20	3.23	-10.200	-0.0040	-2.5 to 2.5	Pass
					3.80	-4.649	-0.0018	-2.5 to 2.5	Pass
					4.37	-5.093	-0.0020	-2.5 to 2.5	Pass
				-30	3.80	-7.896	-0.0031	-2.5 to 2.5	Pass
				-20	3.80	-3.433	-0.0014	-2.5 to 2.5	Pass
				-10	3.80	-4.935	-0.0019	-2.5 to 2.5	Pass
				0	3.80	0.143	0.0001	-2.5 to 2.5	Pass
				10	3.80	4.678	0.0018	-2.5 to 2.5	Pass
				30	3.80	3.161	0.0012	-2.5 to 2.5	Pass
				40	3.80	-4.392	-0.0017	-2.5 to 2.5	Pass
				50	3.80	-2.446	-0.0010	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.23	-2.732	-0.0011	-2.5 to 2.5	Pass
					3.80	5.636	0.0022	-2.5 to 2.5	Pass
					4.37	0.587	0.0002	-2.5 to 2.5	Pass
				-30	3.80	-12.817	-0.0050	-2.5 to 2.5	Pass
				-20	3.80	-6.237	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-6.981	-0.0027	-2.5 to 2.5	Pass
				0	3.80	-2.074	-0.0008	-2.5 to 2.5	Pass
				10	3.80	-1.345	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-4.077	-0.0016	-2.5 to 2.5	Pass
				40	3.80	1.373	0.0005	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.23	-4.506	-0.0018	-2.5 to 2.5	Pass
					3.80	0.515	0.0002	-2.5 to 2.5	Pass
					4.37	-4.034	-0.0016	-2.5 to 2.5	Pass
				-30	3.80	-4.549	-0.0018	-2.5 to 2.5	Pass
				-20	3.80	0.772	0.0003	-2.5 to 2.5	Pass
				-10	3.80	-3.190	-0.0013	-2.5 to 2.5	Pass
				0	3.80	1.473	0.0006	-2.5 to 2.5	Pass
				10	3.80	0.143	0.0001	-2.5 to 2.5	Pass
				30	3.80	-0.358	-0.0001	-2.5 to 2.5	Pass
				40	3.80	-4.349	-0.0017	-2.5 to 2.5	Pass
				50	3.80	0.186	0.0001	-2.5 to 2.5	Pass
	2535	75	0	20	3.23	1.931	0.0008	-2.5 to 2.5	Pass
					3.80	-4.077	-0.0016	-2.5 to 2.5	Pass
					4.37	-3.719	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	5.980	0.0024	-2.5 to 2.5	Pass
				-20	3.80	5.364	0.0021	-2.5 to 2.5	Pass
				-10	3.80	0.415	0.0002	-2.5 to 2.5	Pass
				0	3.80	-0.515	-0.0002	-2.5 to 2.5	Pass
				10	3.80	1.445	0.0006	-2.5 to 2.5	Pass
				30	3.80	3.848	0.0015	-2.5 to 2.5	Pass
				40	3.80	-3.419	-0.0013	-2.5 to 2.5	Pass
				50	3.80	1.187	0.0005	-2.5 to 2.5	Pass

	2562.5	75	0	20	3.23	-2.503	-0.0010	-2.5 to 2.5	Pass
					3.80	-2.460	-0.0010	-2.5 to 2.5	Pass
					4.37	-1.831	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-5.279	-0.0021	-2.5 to 2.5	Pass
				-20	3.80	0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.80	0.644	0.0003	-2.5 to 2.5	Pass
				0	3.80	-4.249	-0.0017	-2.5 to 2.5	Pass
				10	3.80	7.739	0.0030	-2.5 to 2.5	Pass
				30	3.80	2.947	0.0012	-2.5 to 2.5	Pass
				40	3.80	-6.623	-0.0026	-2.5 to 2.5	Pass
				50	3.80	-3.018	-0.0012	-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	3.23	-6.123	-0.0024	-2.5 to 2.5	Pass
					3.80	-5.822	-0.0023	-2.5 to 2.5	Pass
					4.37	0.072	0.0000	-2.5 to 2.5	Pass
				-30	3.80	-13.733	-0.0055	-2.5 to 2.5	Pass
				-20	3.80	-5.565	-0.0022	-2.5 to 2.5	Pass
				-10	3.80	-3.018	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-4.478	-0.0018	-2.5 to 2.5	Pass
				10	3.80	-0.100	0.0000	-2.5 to 2.5	Pass
				30	3.80	-3.748	-0.0015	-2.5 to 2.5	Pass
				40	3.80	-2.375	-0.0009	-2.5 to 2.5	Pass
				50	3.80	-5.851	-0.0023	-2.5 to 2.5	Pass
	2535	100	0	20	3.23	-5.851	-0.0023	-2.5 to 2.5	Pass
					3.80	-6.108	-0.0024	-2.5 to 2.5	Pass
					4.37	-5.507	-0.0022	-2.5 to 2.5	Pass
				-30	3.80	-5.193	-0.0020	-2.5 to 2.5	Pass
				-20	3.80	-6.423	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-5.150	-0.0020	-2.5 to 2.5	Pass
				0	3.80	-5.121	-0.0020	-2.5 to 2.5	Pass
				10	3.80	-5.479	-0.0022	-2.5 to 2.5	Pass
				30	3.80	-0.629	-0.0002	-2.5 to 2.5	Pass
				40	3.80	-2.460	-0.0010	-2.5 to 2.5	Pass
				50	3.80	-1.402	-0.0006	-2.5 to 2.5	Pass
	2560	100	0	20	3.23	-5.622	-0.0022	-2.5 to 2.5	Pass
					3.80	-4.907	-0.0019	-2.5 to 2.5	Pass
					4.37	-2.890	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	-10.686	-0.0042	-2.5 to 2.5	Pass
				-20	3.80	-8.683	-0.0034	-2.5 to 2.5	Pass
				-10	3.80	-12.031	-0.0047	-2.5 to 2.5	Pass
				0	3.80	-8.454	-0.0033	-2.5 to 2.5	Pass
				10	3.80	-10.657	-0.0042	-2.5 to 2.5	Pass
				30	3.80	-8.411	-0.0033	-2.5 to 2.5	Pass
				40	3.80	-12.217	-0.0048	-2.5 to 2.5	Pass
				50	3.80	-11.530	-0.0045	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.23	-6.008	-0.0024	-2.5 to 2.5	Pass
					3.80	-4.334	-0.0017	-2.5 to 2.5	Pass
					4.37	-4.892	-0.0019	-2.5 to 2.5	Pass
				-30	3.80	-7.968	-0.0032	-2.5 to 2.5	Pass
				-20	3.80	-5.407	-0.0022	-2.5 to 2.5	Pass
				-10	3.80	-7.238	-0.0029	-2.5 to 2.5	Pass
				0	3.80	-3.676	-0.0015	-2.5 to 2.5	Pass
				10	3.80	-6.452	-0.0026	-2.5 to 2.5	Pass
				30	3.80	3.490	0.0014	-2.5 to 2.5	Pass
				40	3.80	-5.450	-0.0022	-2.5 to 2.5	Pass
				50	3.80	-5.693	-0.0023	-2.5 to 2.5	Pass
	2535	100	0	20	3.23	-1.101	-0.0004	-2.5 to 2.5	Pass
					3.80	-3.362	-0.0013	-2.5 to 2.5	Pass
					4.37	2.131	0.0008	-2.5 to 2.5	Pass
				-30	3.80	2.246	0.0009	-2.5 to 2.5	Pass
				-20	3.80	-6.909	-0.0027	-2.5 to 2.5	Pass
				-10	3.80	2.103	0.0008	-2.5 to 2.5	Pass
				0	3.80	-2.532	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-3.734	-0.0015	-2.5 to 2.5	Pass
				30	3.80	-1.674	-0.0007	-2.5 to 2.5	Pass
				40	3.80	-6.466	-0.0026	-2.5 to 2.5	Pass
				50	3.80	-4.849	-0.0019	-2.5 to 2.5	Pass

	2560	100	0	20	3.23	-5.393	-0.0021	-2.5 to 2.5	Pass
					3.80	-4.177	-0.0016	-2.5 to 2.5	Pass
					4.37	-7.768	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-12.245	-0.0048	-2.5 to 2.5	Pass
				-20	3.80	-16.065	-0.0063	-2.5 to 2.5	Pass
				-10	3.80	-10.843	-0.0042	-2.5 to 2.5	Pass
				0	3.80	-14.520	-0.0057	-2.5 to 2.5	Pass
				10	3.80	-8.769	-0.0034	-2.5 to 2.5	Pass
				30	3.80	-8.726	-0.0034	-2.5 to 2.5	Pass
				40	3.80	-9.756	-0.0038	-2.5 to 2.5	Pass
				50	3.80	-11.973	-0.0047	-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

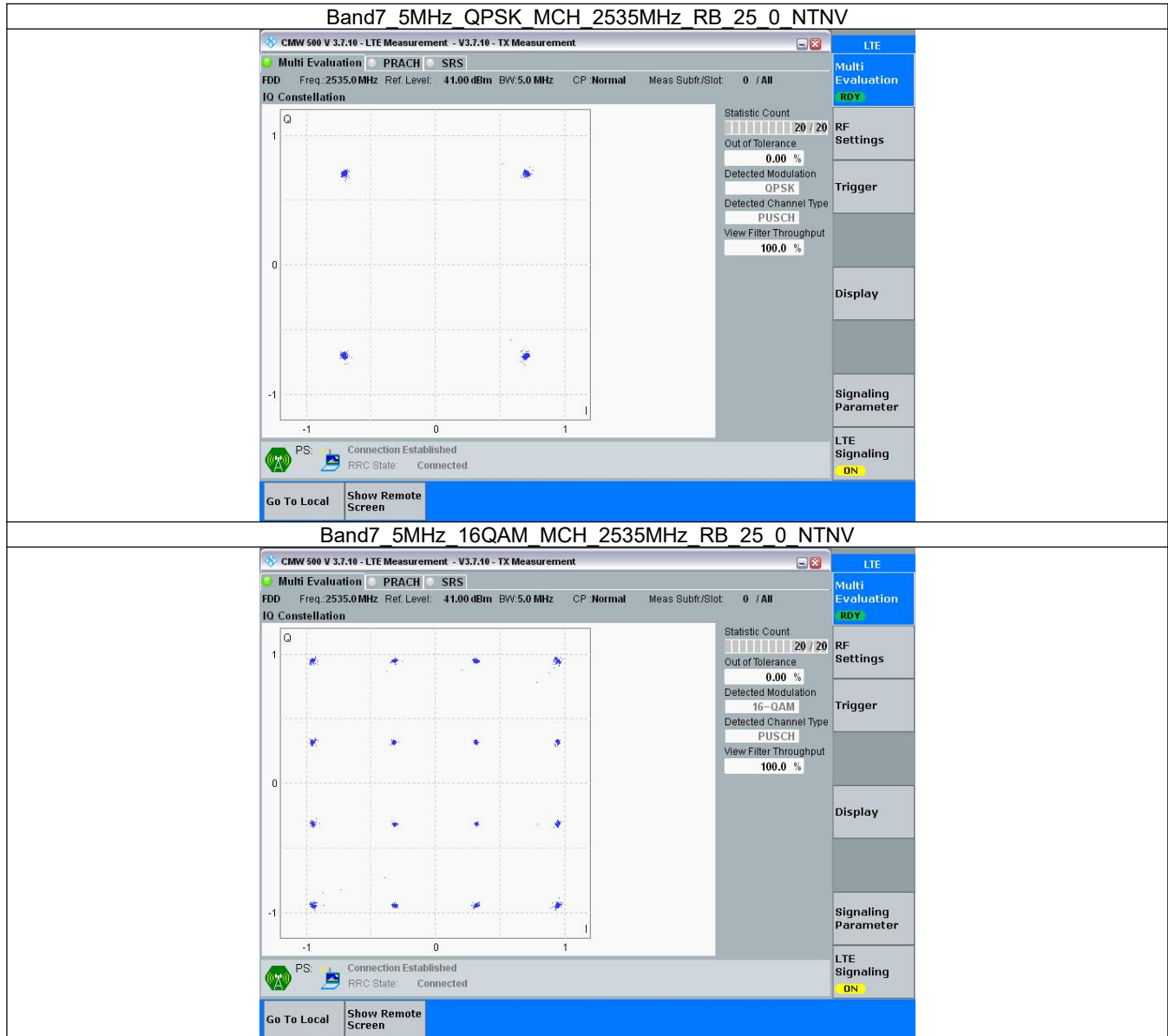
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

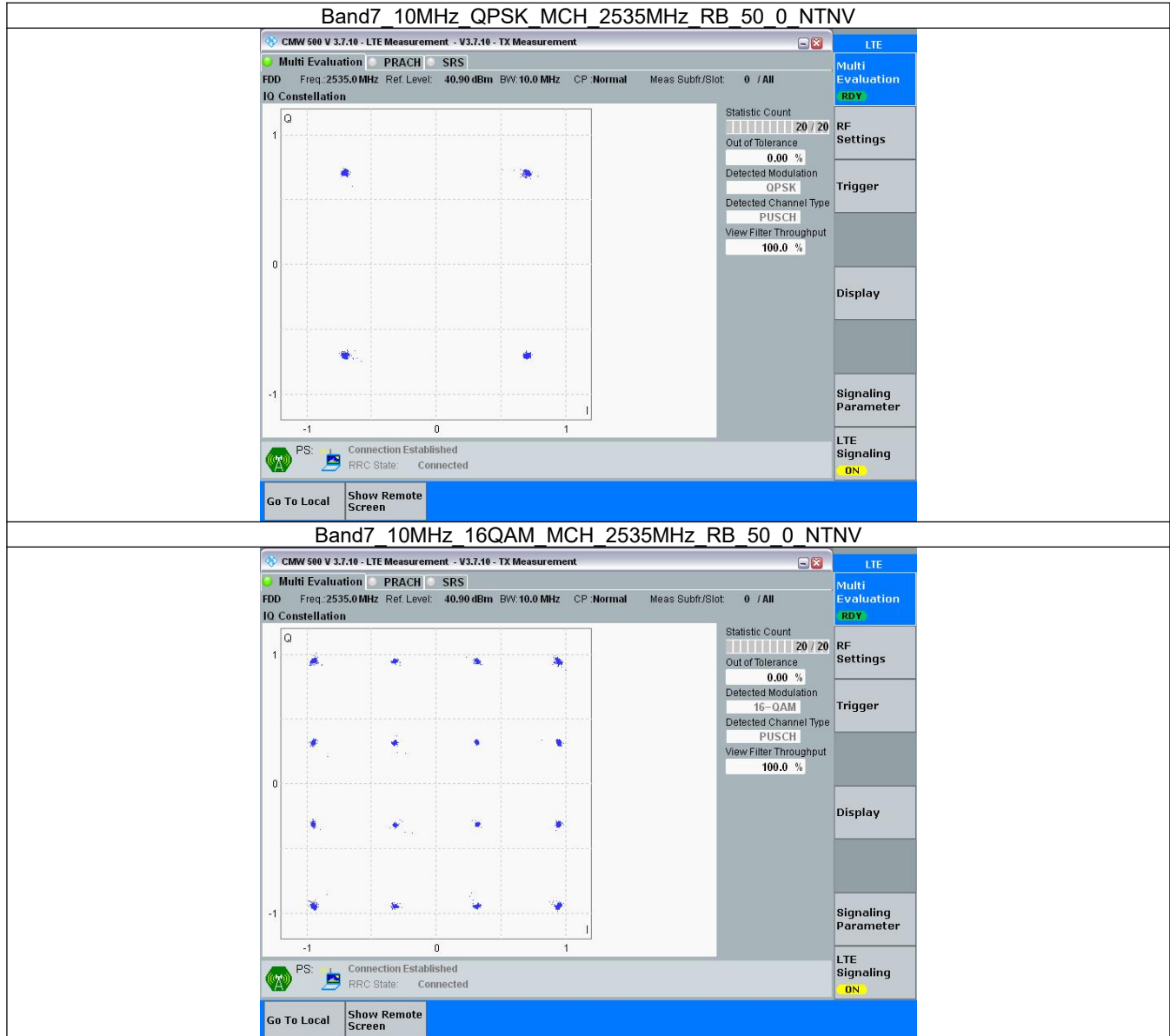
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

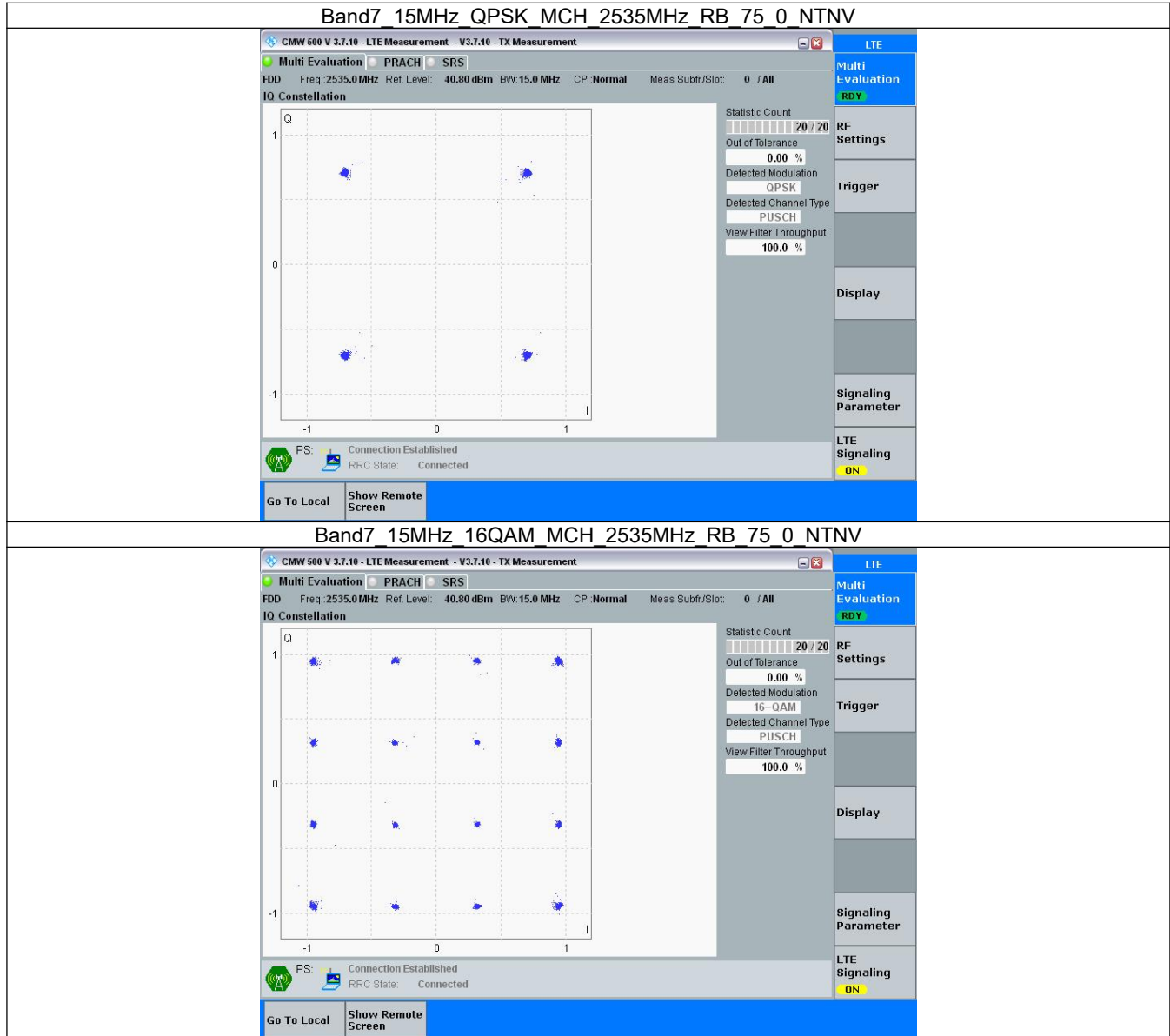
3.2.1 B7_5MHz



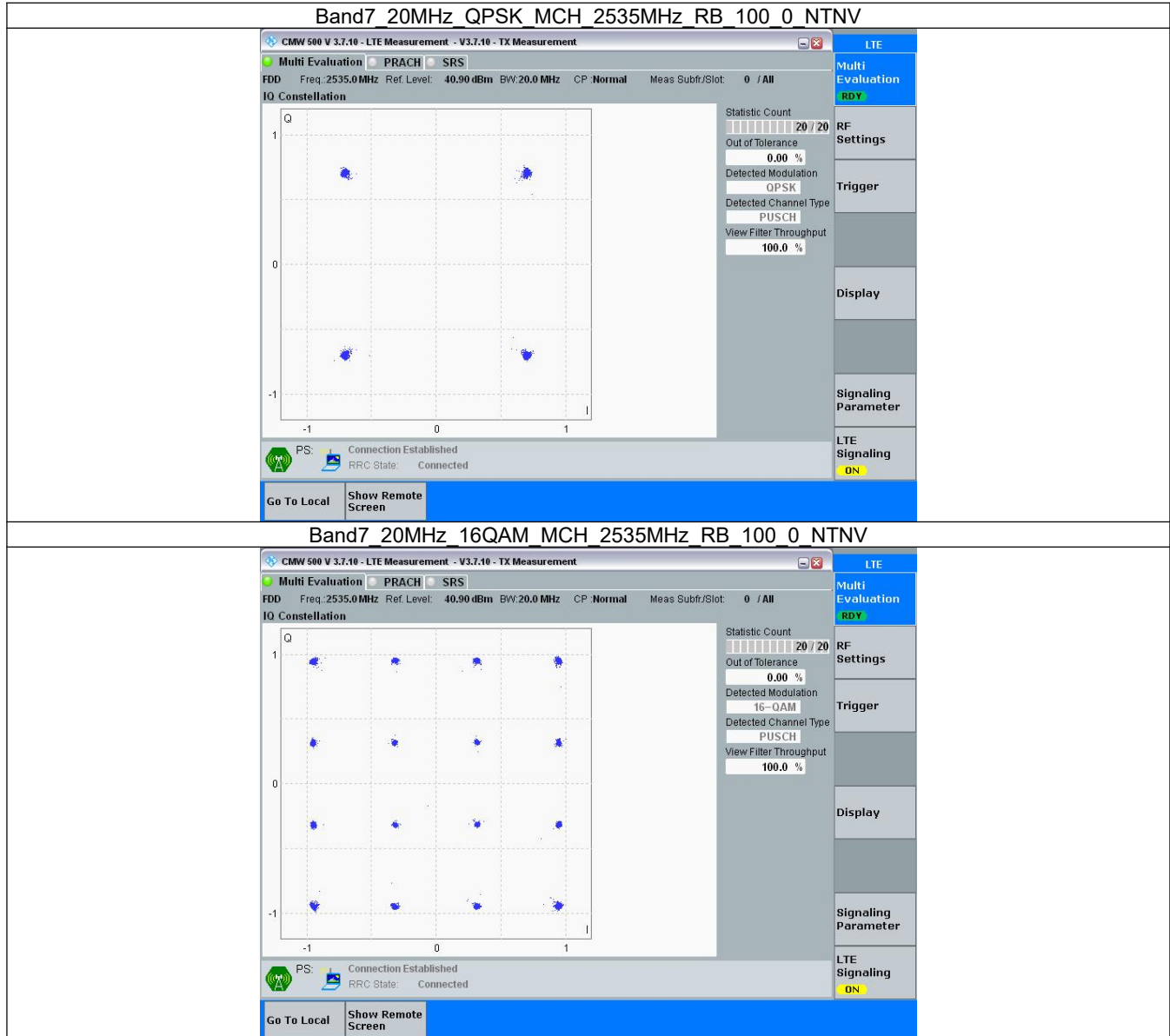
3.2.2 B7_10MHz



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	4.530	/	Pass
		2535	25	0	4.527	/	Pass
		2567.5	25	0	4.553	/	Pass
	16QAM	2502.5	25	0	4.547	/	Pass
		2535	25	0	4.524	/	Pass
		2567.5	25	0	4.530	/	Pass
10	QPSK	2505	50	0	9.072	/	Pass
		2535	50	0	9.041	/	Pass
		2565	50	0	9.039	/	Pass
	16QAM	2505	50	0	9.044	/	Pass
		2535	50	0	9.052	/	Pass
		2565	50	0	9.058	/	Pass
15	QPSK	2507.5	75	0	13.581	/	Pass
		2535	75	0	13.559	/	Pass
		2562.5	75	0	13.603	/	Pass
	16QAM	2507.5	75	0	13.598	/	Pass
		2535	75	0	13.548	/	Pass
		2562.5	75	0	13.568	/	Pass
20	QPSK	2510	100	0	18.115	/	Pass
		2535	100	0	18.033	/	Pass
		2560	100	0	18.124	/	Pass
	16QAM	2510	100	0	18.128	/	Pass
		2535	100	0	18.049	/	Pass
		2560	100	0	18.104	/	Pass

4.1.2 Band7_XDB

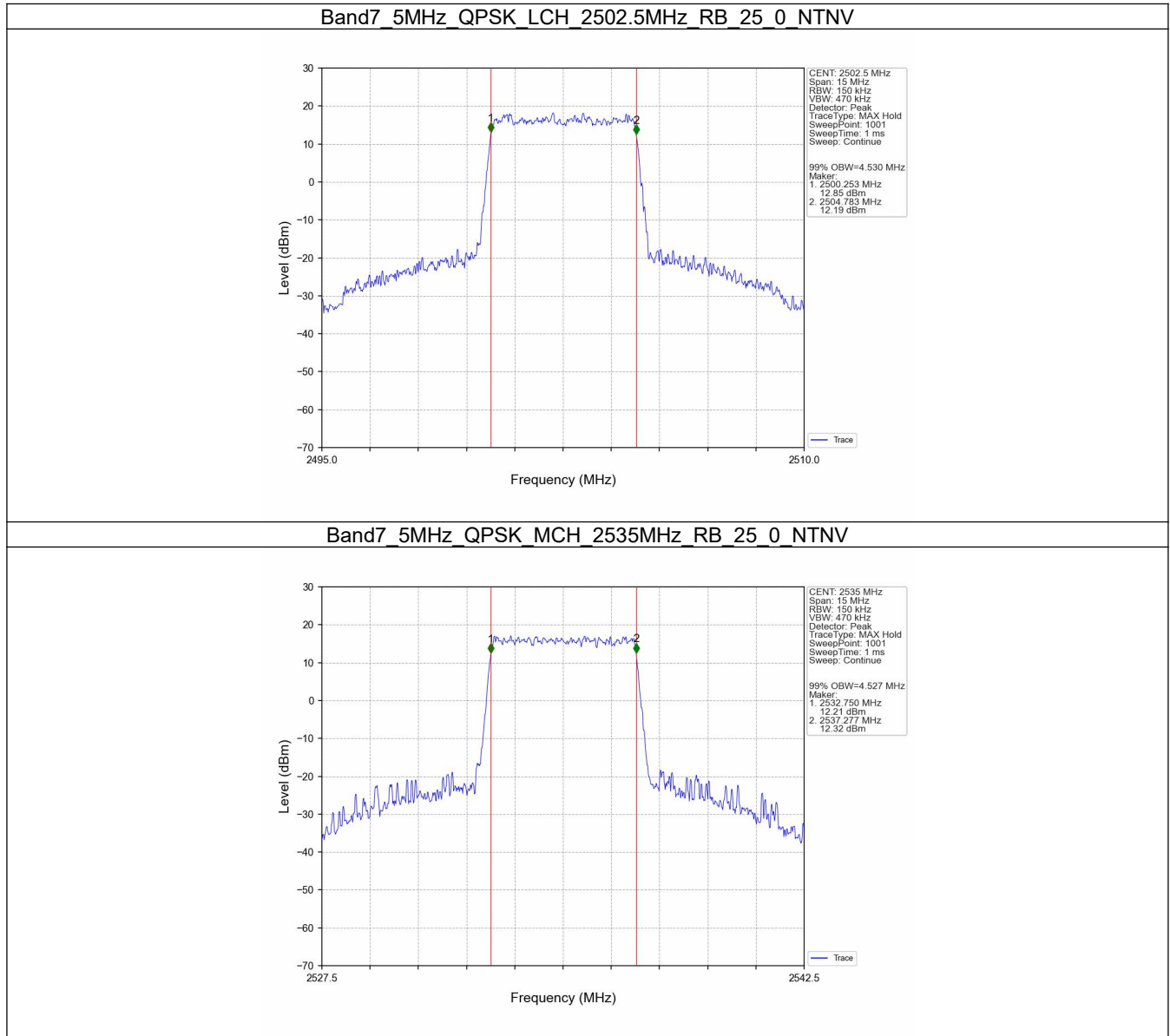
Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.043	/	Pass
		2535	25	0	5.018	/	Pass
		2567.5	25	0	5.021	/	Pass
	16QAM	2502.5	25	0	5.056	/	Pass
		2535	25	0	4.977	/	Pass
		2567.5	25	0	4.996	/	Pass
10	QPSK	2505	50	0	9.942	/	Pass
		2535	50	0	9.889	/	Pass
		2565	50	0	9.995	/	Pass
	16QAM	2505	50	0	9.873	/	Pass
		2535	50	0	9.901	/	Pass
		2565	50	0	9.923	/	Pass
15	QPSK	2507.5	75	0	14.871	/	Pass
		2535	75	0	14.842	/	Pass
		2562.5	75	0	14.973	/	Pass
	16QAM	2507.5	75	0	15.026	/	Pass
		2535	75	0	14.937	/	Pass
		2562.5	75	0	14.822	/	Pass
20	QPSK	2510	100	0	19.738	/	Pass



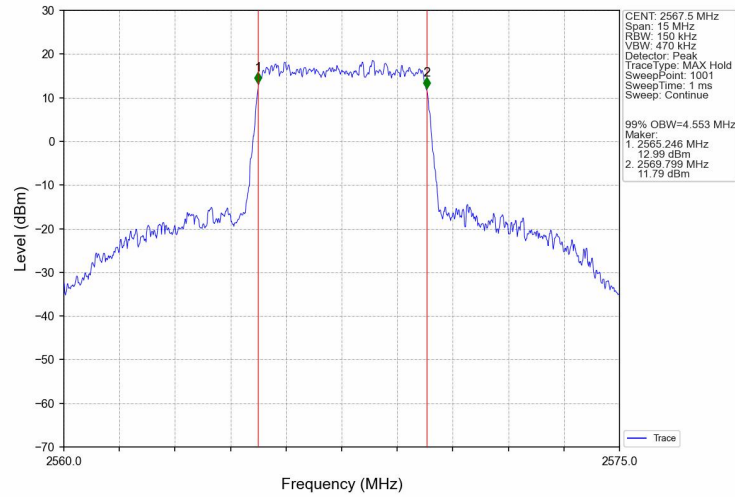
		2535	100	0	19.761	/	Pass
		2560	100	0	19.635	/	Pass
	16QAM	2510	100	0	19.883	/	Pass
		2535	100	0	19.562	/	Pass
		2560	100	0	19.625	/	Pass

4.2 Test Graph

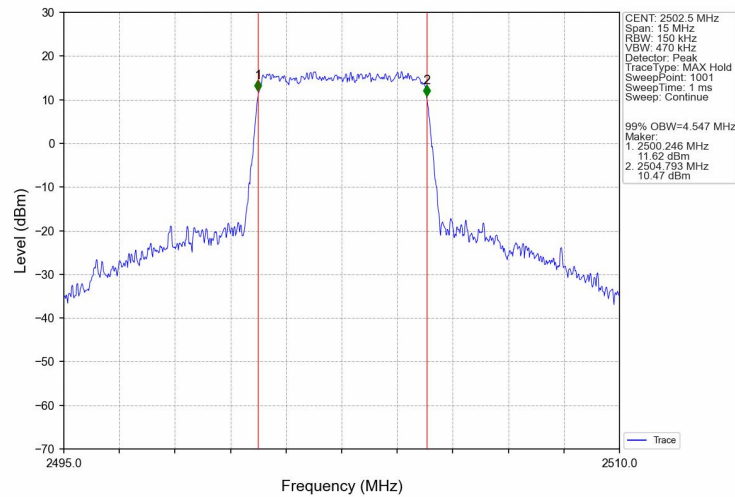
4.2.1 Band7_OBW



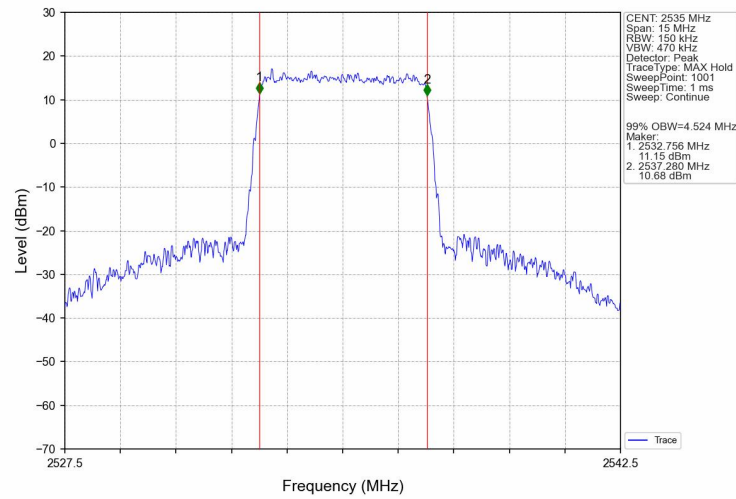
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



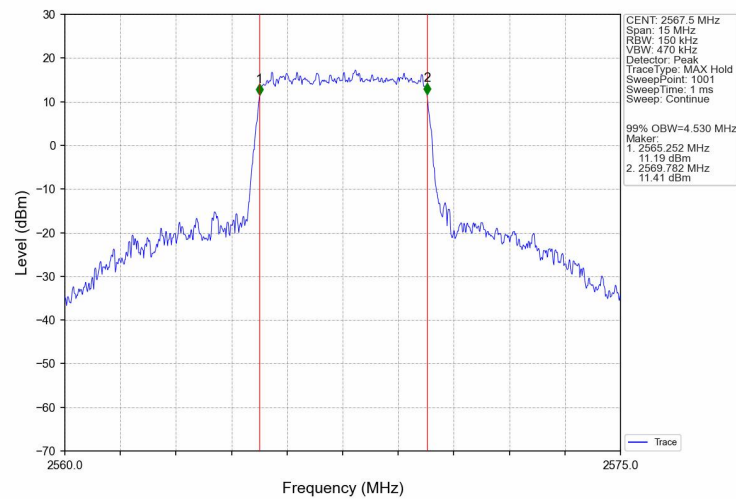
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



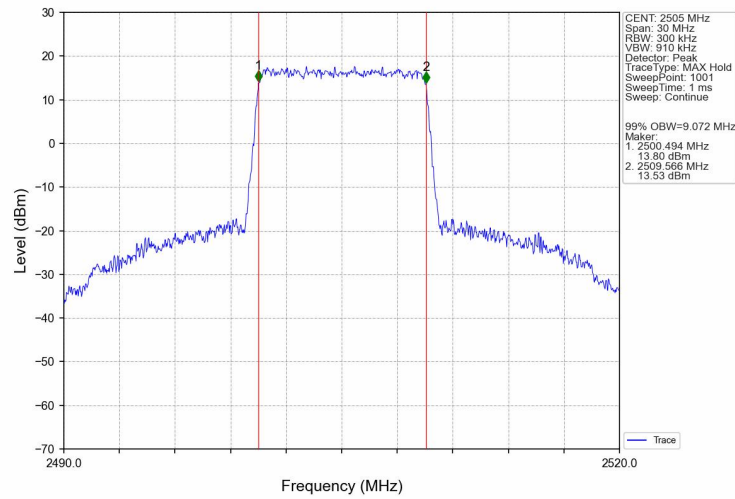
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



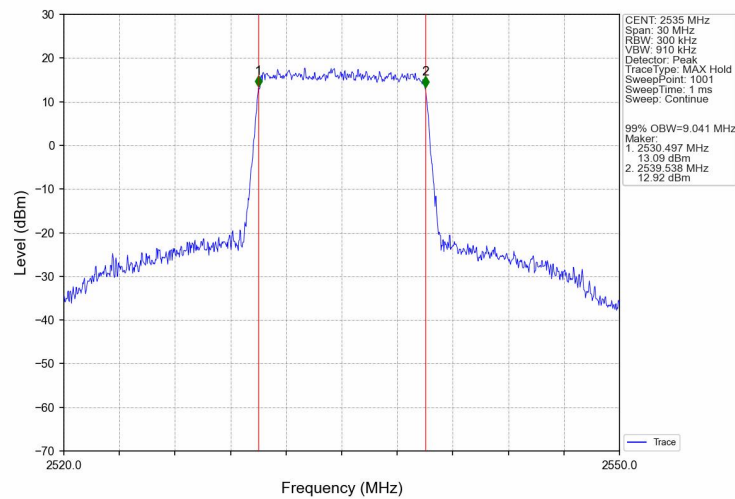
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



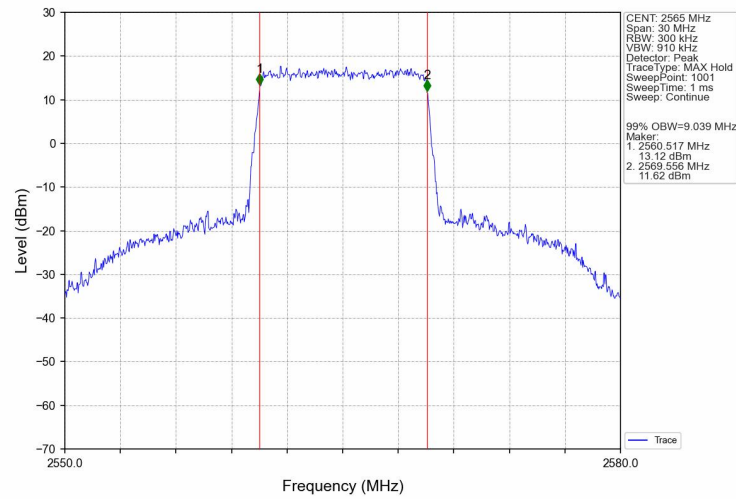
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



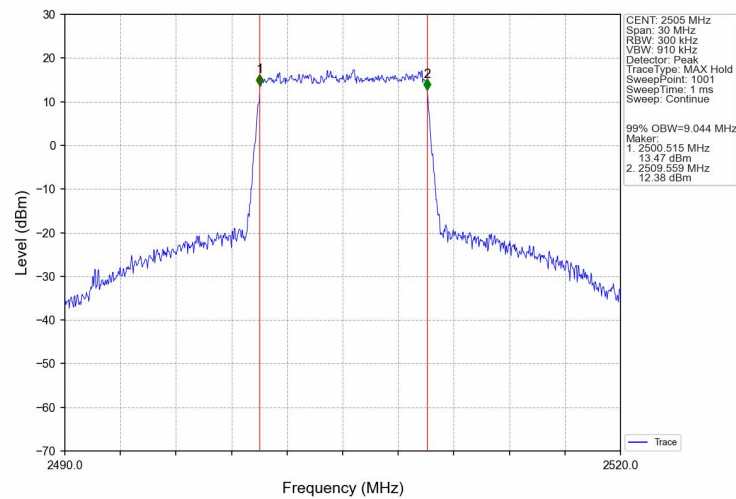
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



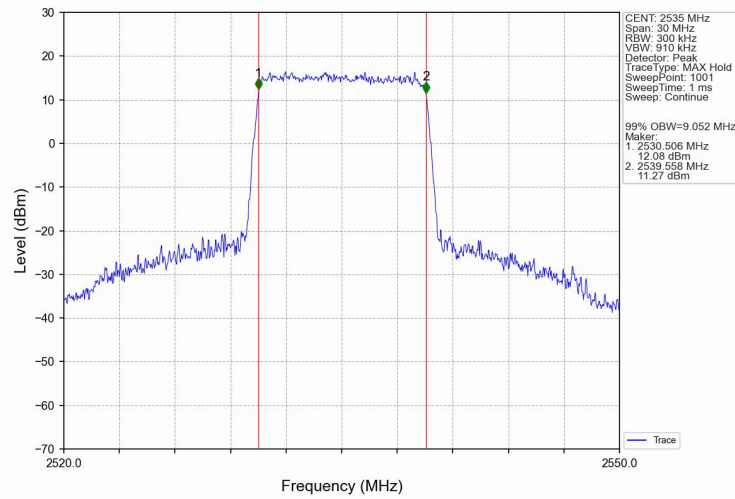
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN



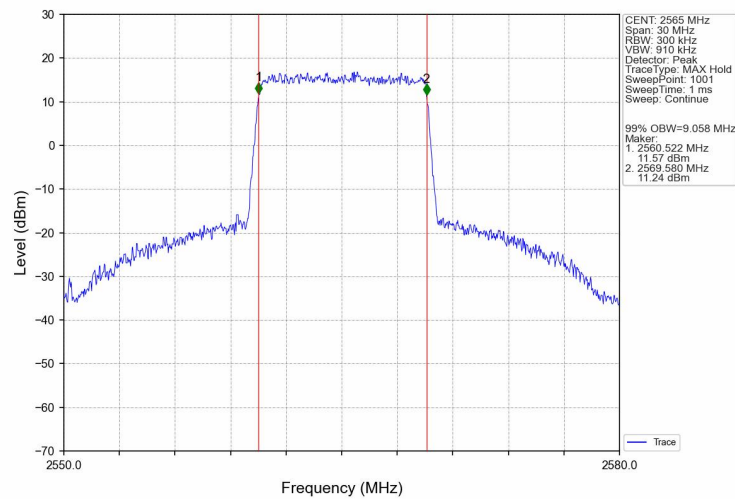
Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTN



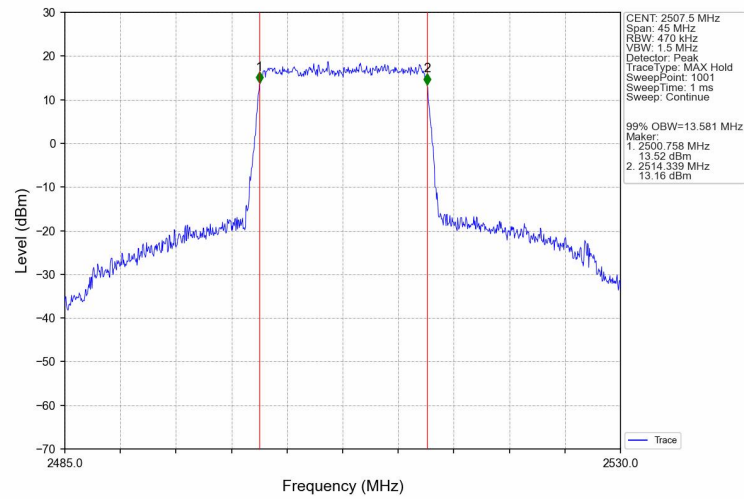
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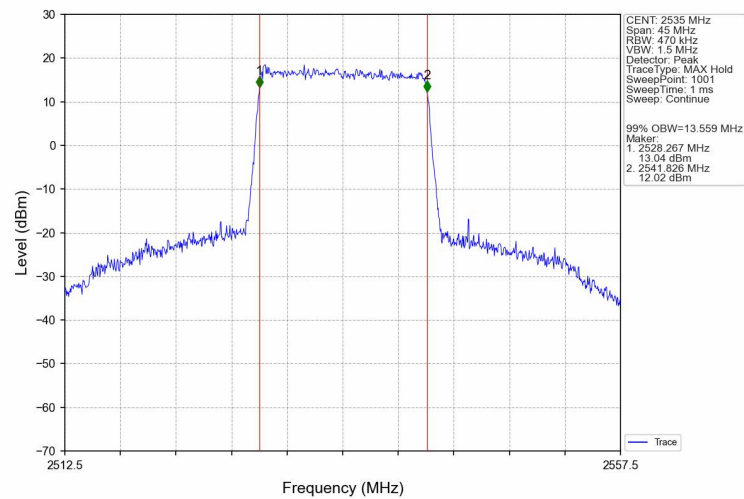
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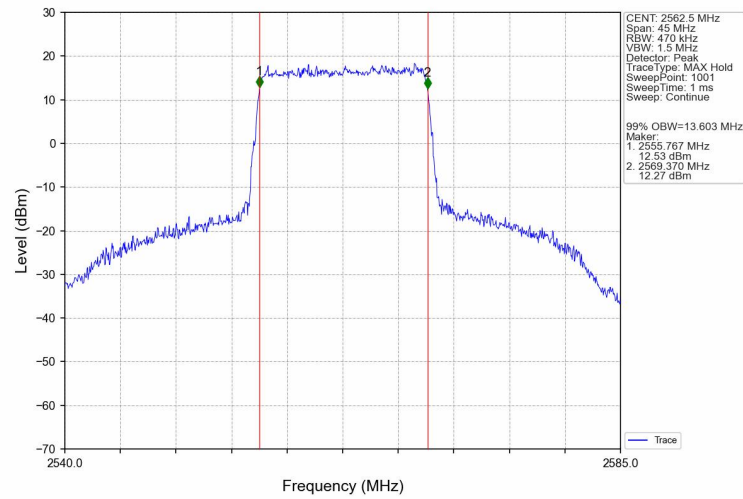
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



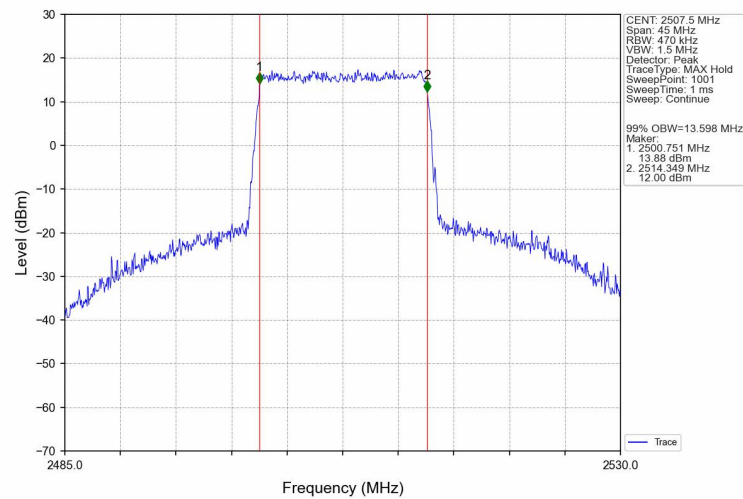
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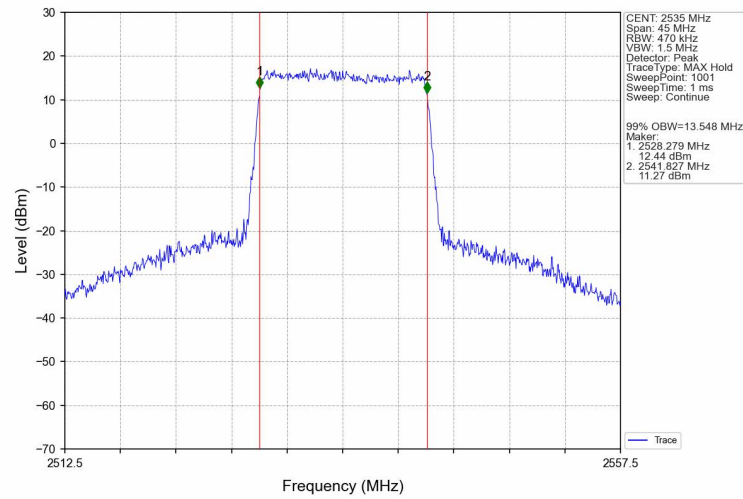
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



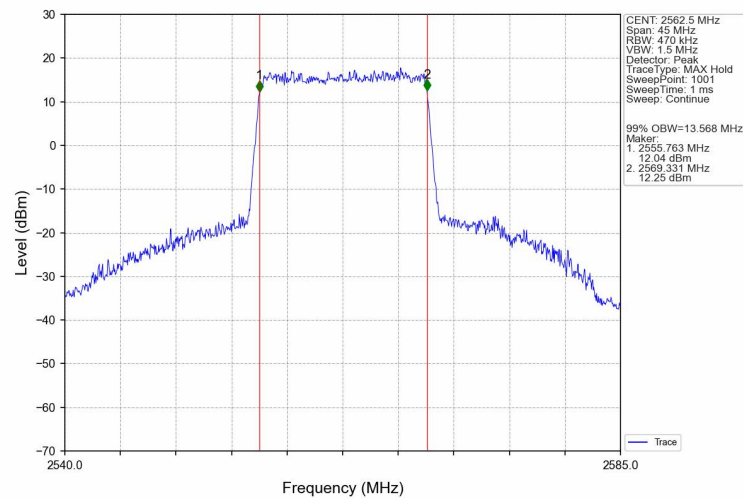
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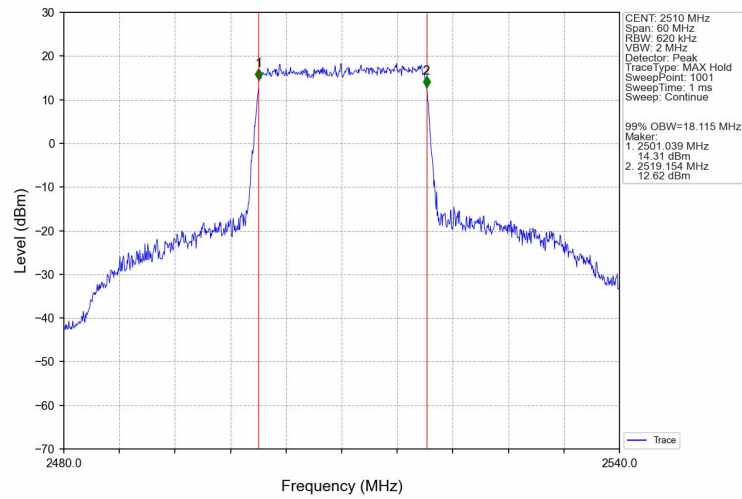
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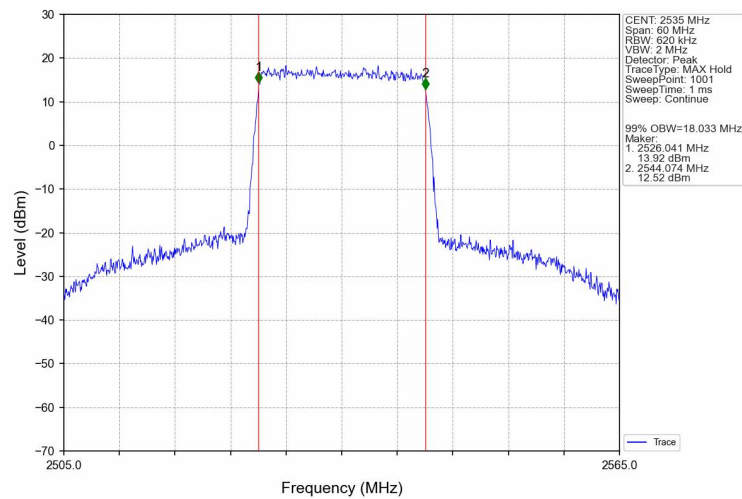
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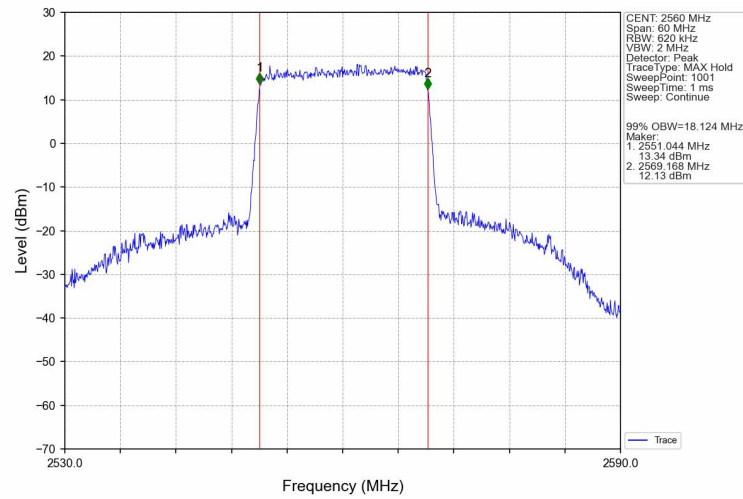
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



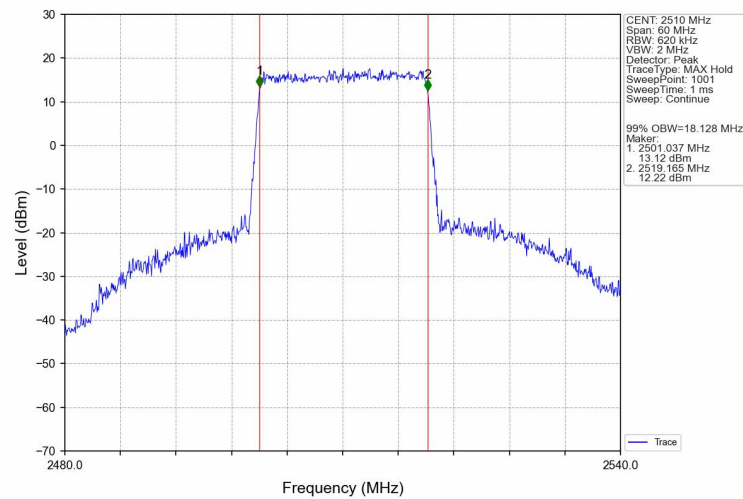
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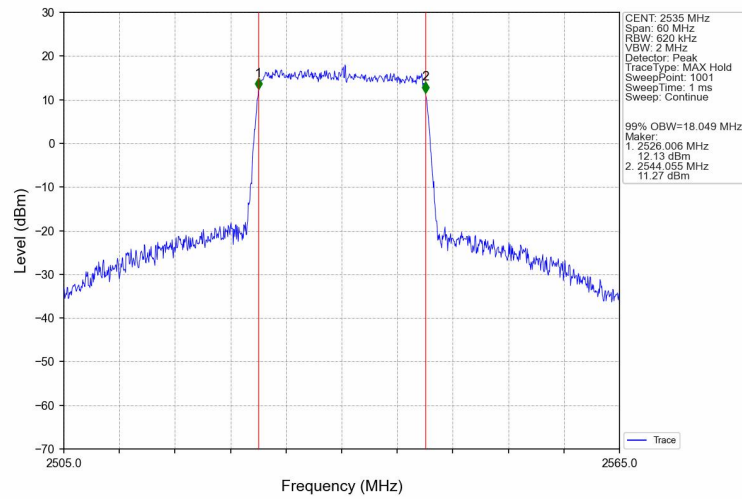
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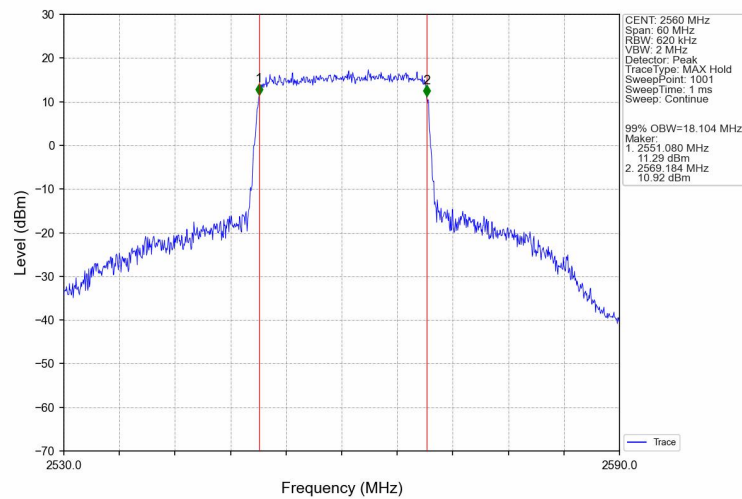
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Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

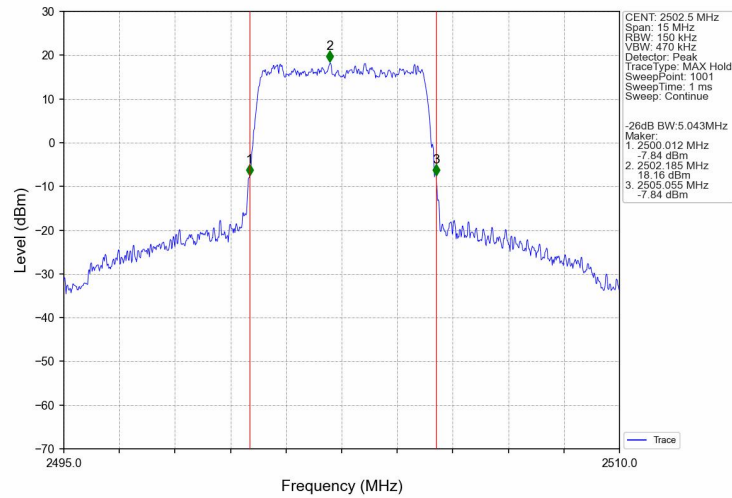


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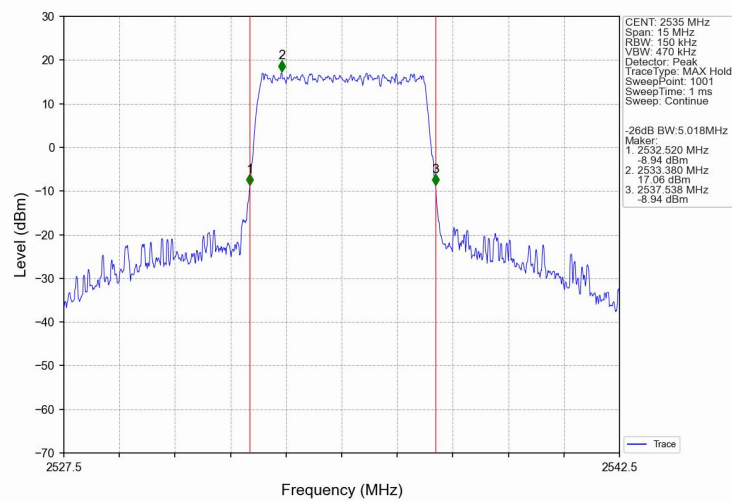


4.2.2 Band7_XDB

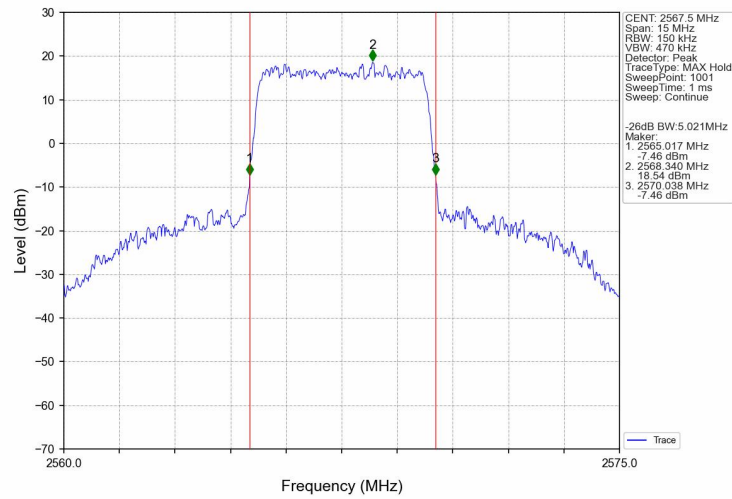
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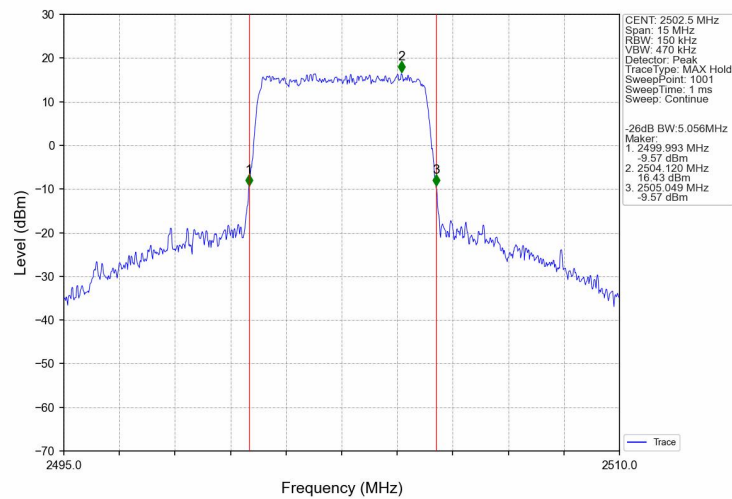
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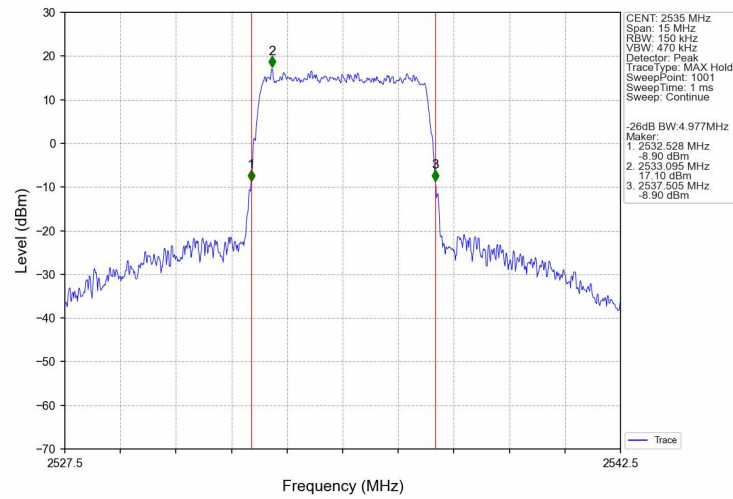
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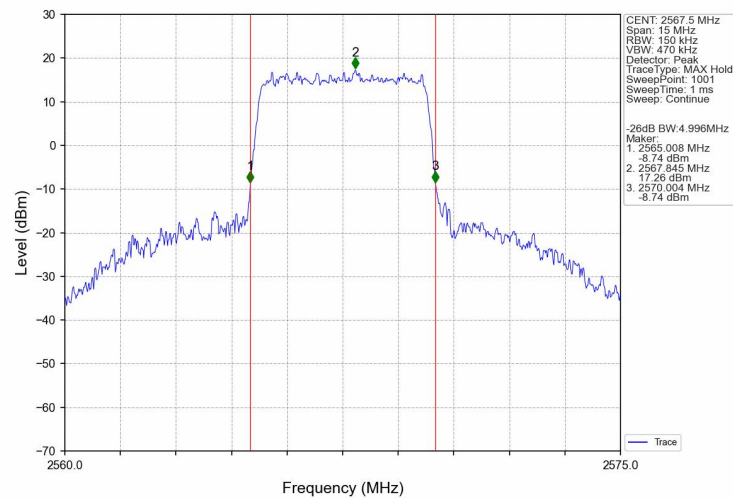
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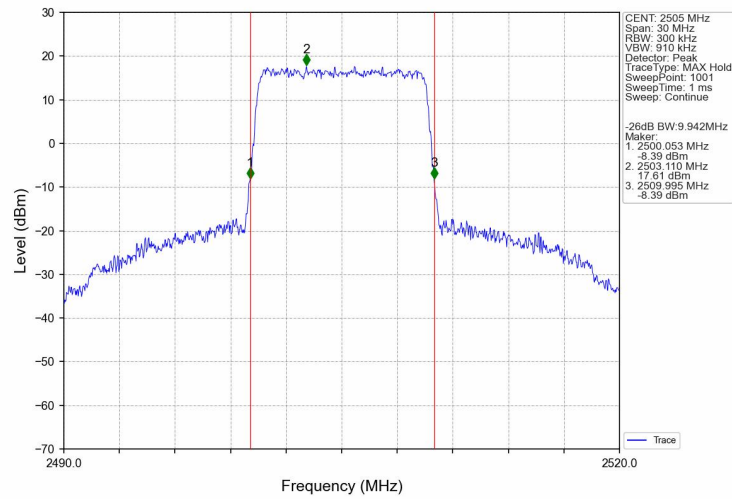
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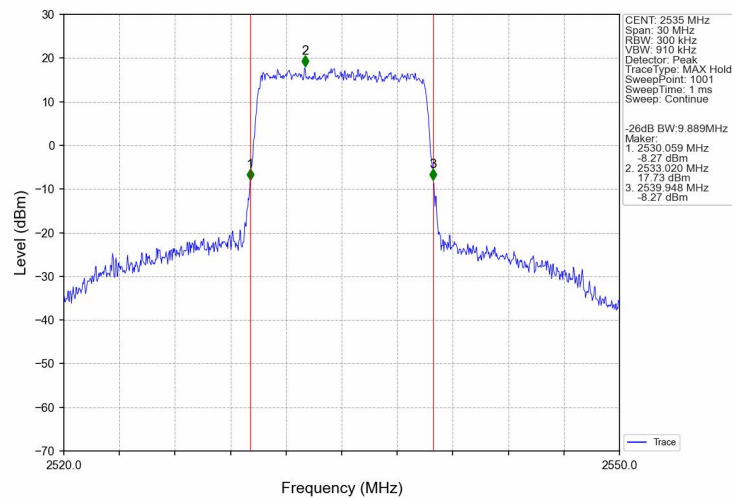
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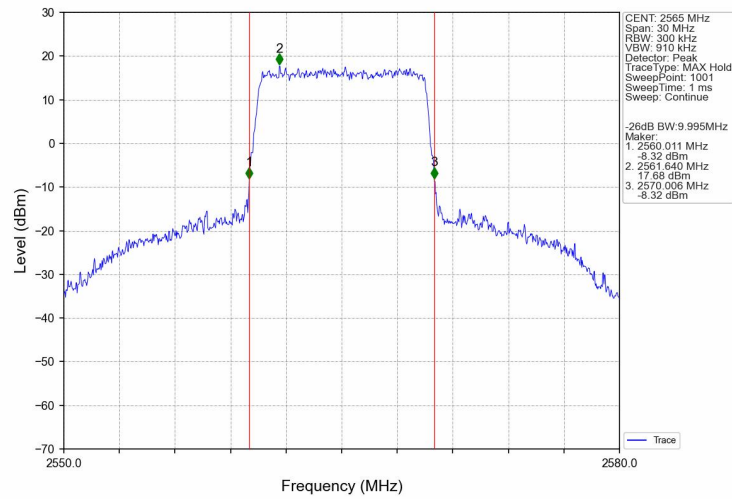
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



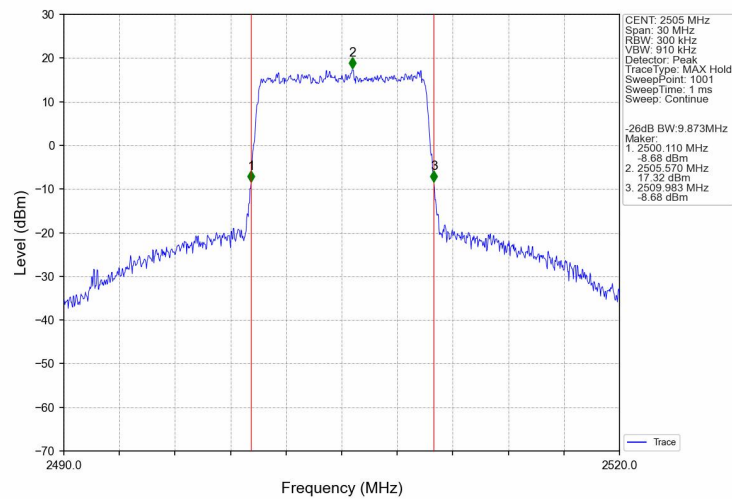
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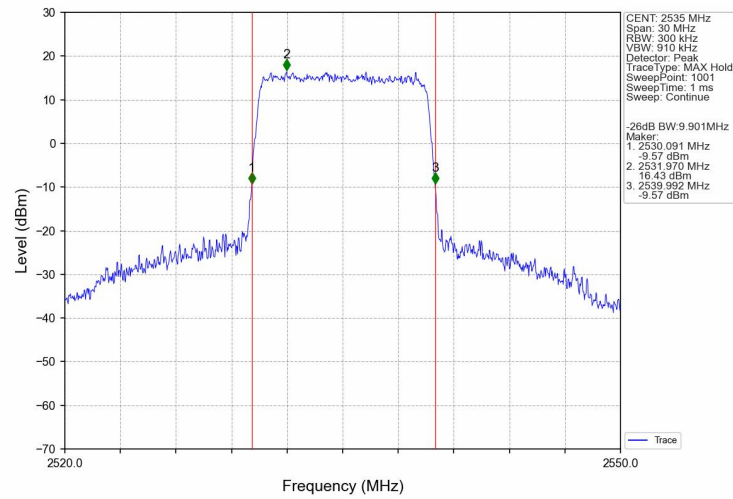
Band7 10MHz QPSK HCH 2565MHz RB 50_0 NTNv



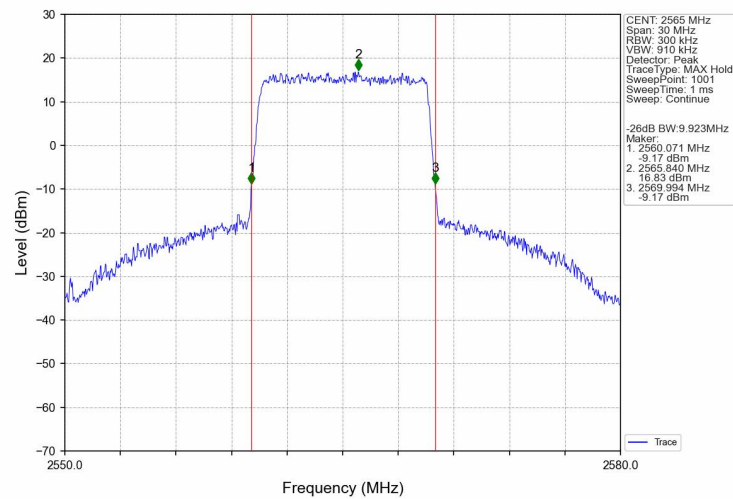
Band7 10MHz 16QAM LCH 2505MHz RB 50_0 NTNv



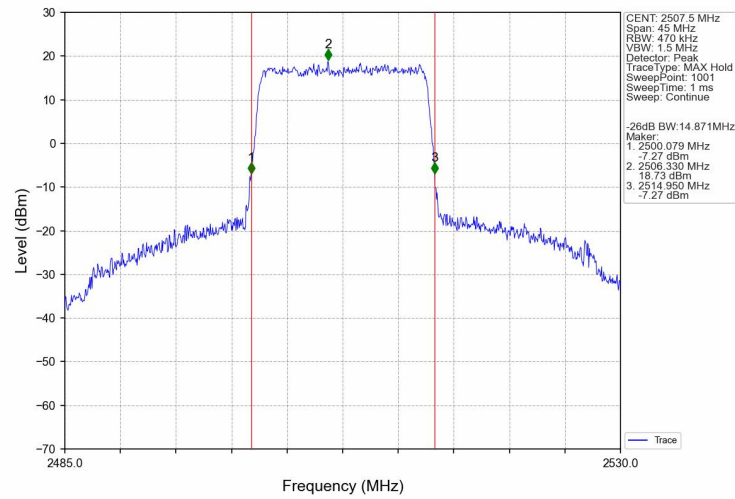
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



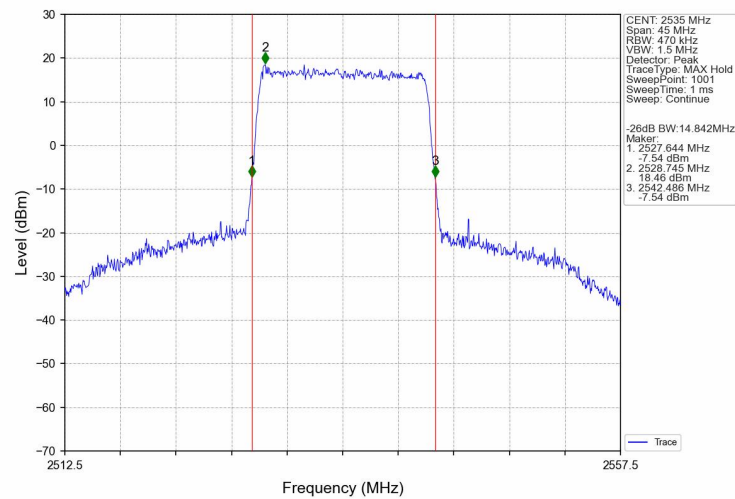
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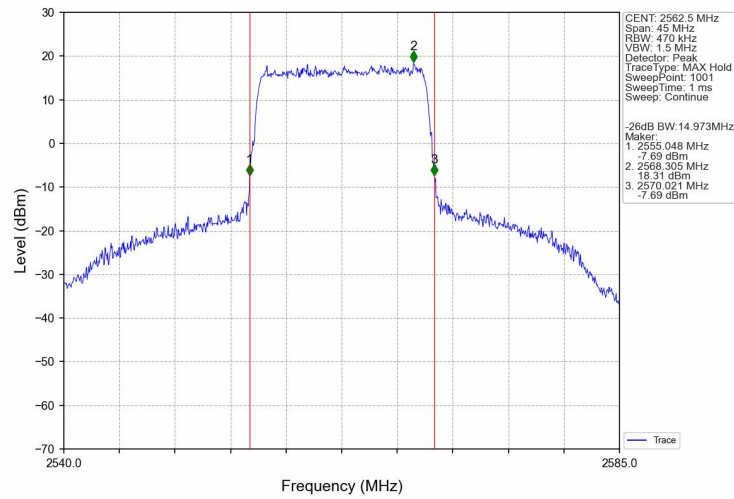
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



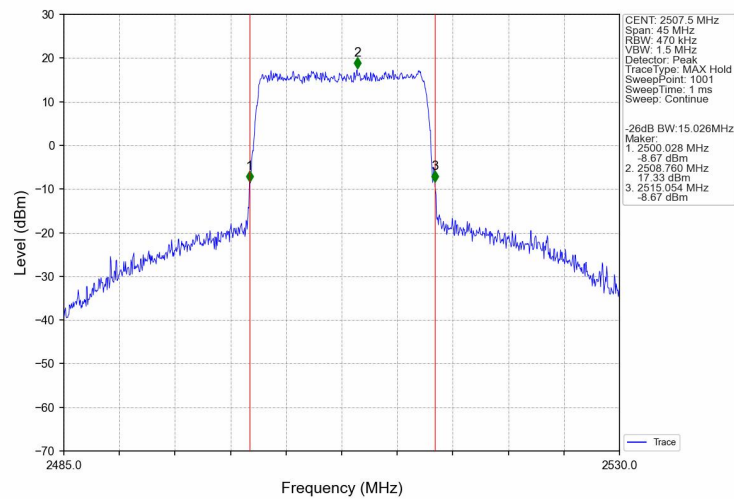
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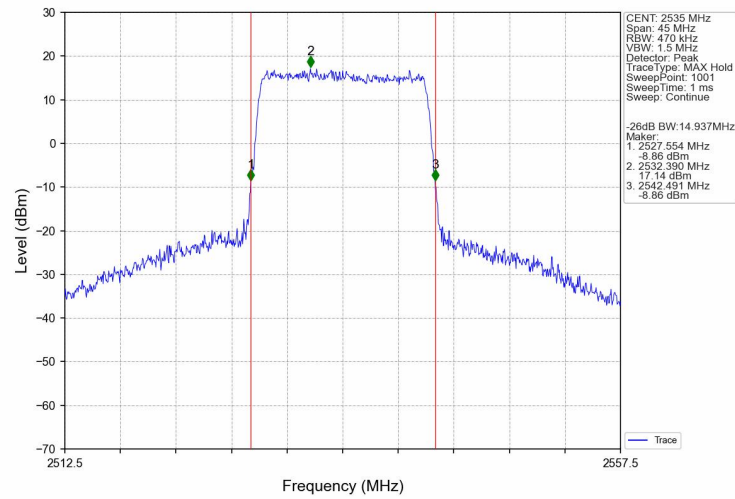
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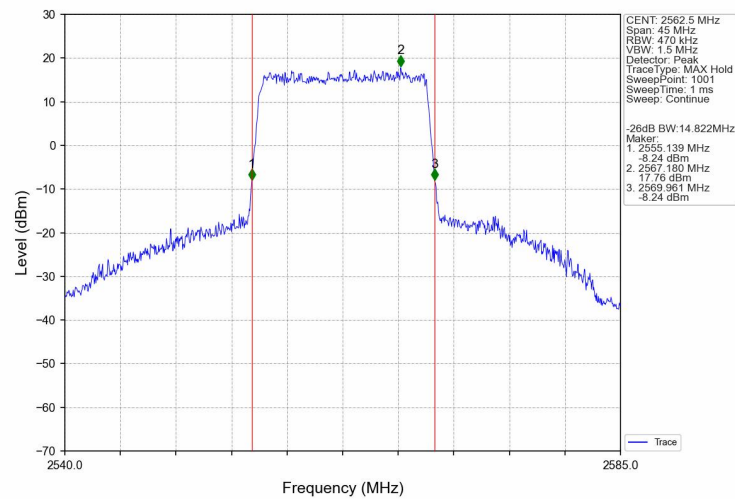
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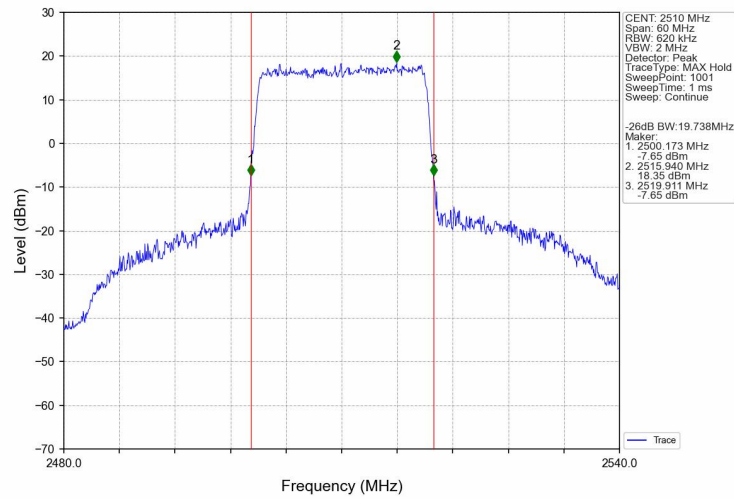
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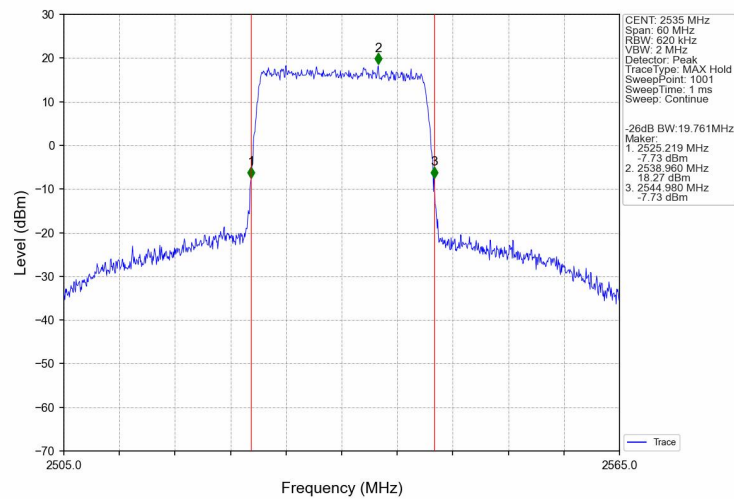
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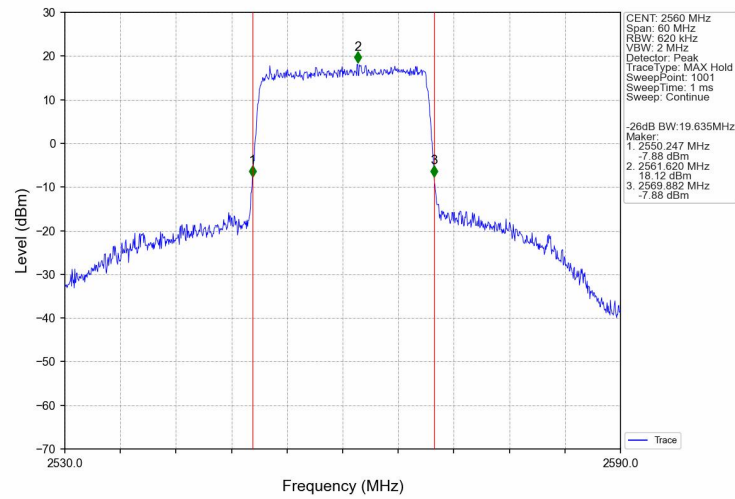
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



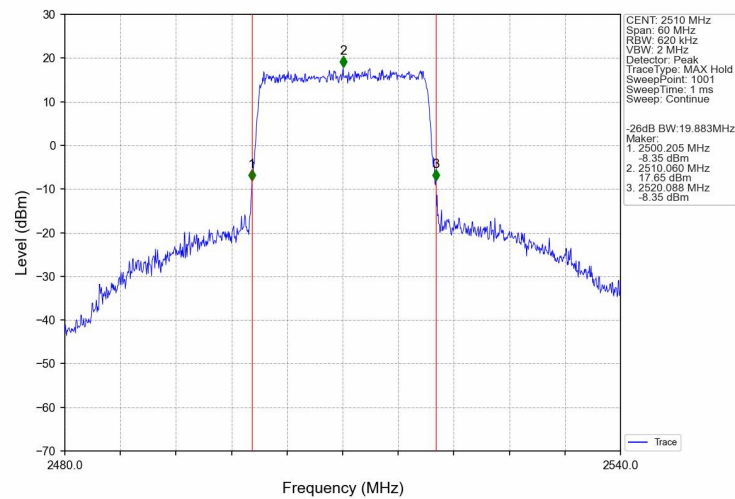
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



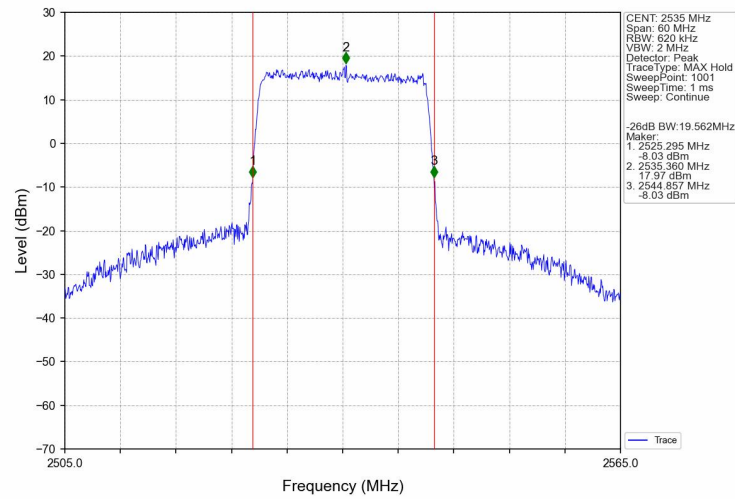
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



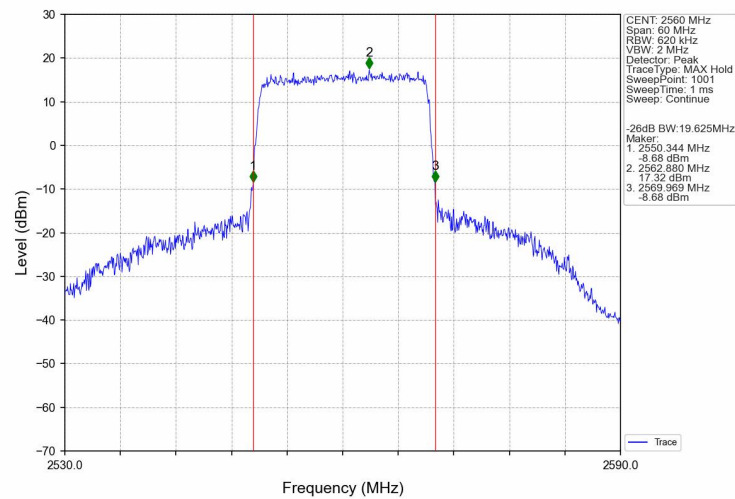
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



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	5.24	<=13	Pass
	2535	25	0	5.43	<=13	Pass
	2567.5	25	0	5.06	<=13	Pass
16QAM	2502.5	25	0	5.95	<=13	Pass
	2535	25	0	6.09	<=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	5.27	<=13	Pass
	2535	50	0	5.40	<=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	5.81	<=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	5.10	<=13	Pass
	2562.5	75	0	5.01	<=13	Pass
16QAM	2507.5	75	0	6.07	<=13	Pass
	2535	75	0	6.10	<=13	Pass
	2562.5	75	0	5.94	<=13	Pass

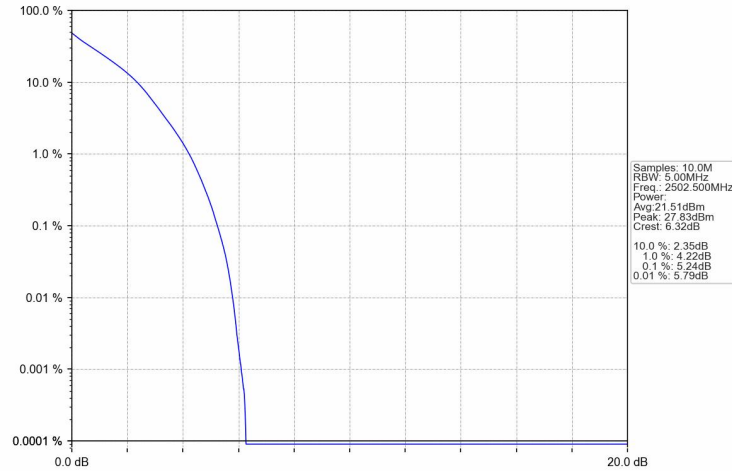
5.1.4 B7_20MHz

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	5.67	<=13	Pass
	2560	100	0	5.61	<=13	Pass
16QAM	2510	100	0	6.56	<=13	Pass
	2535	100	0	6.56	<=13	Pass
	2560	100	0	6.54	<=13	Pass

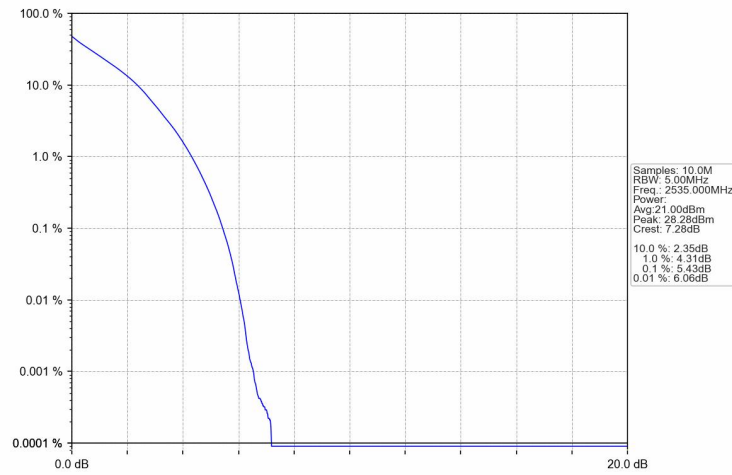
5.2 Test Graph

5.2.1 B7_5MHz

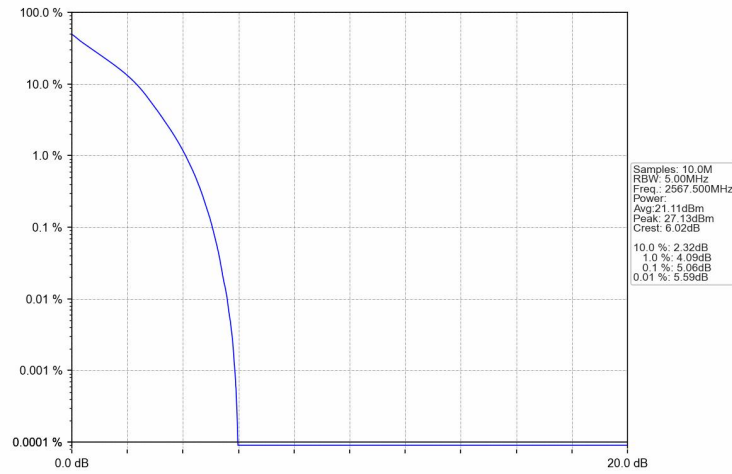
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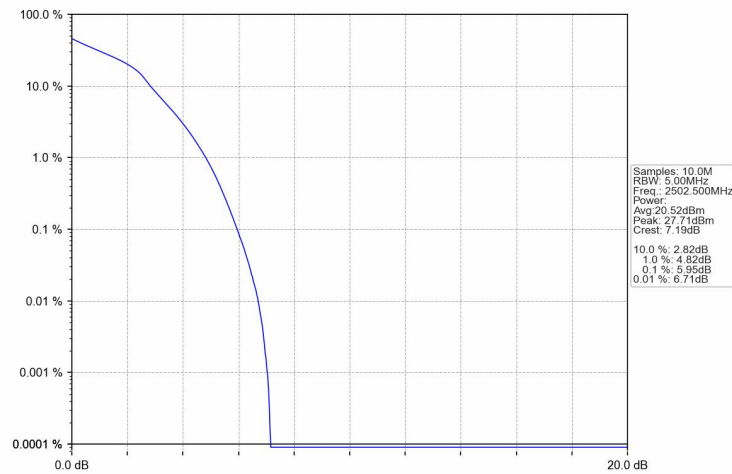
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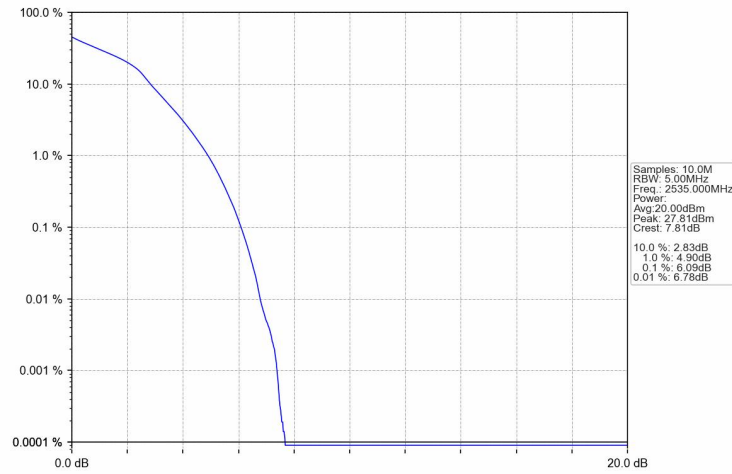
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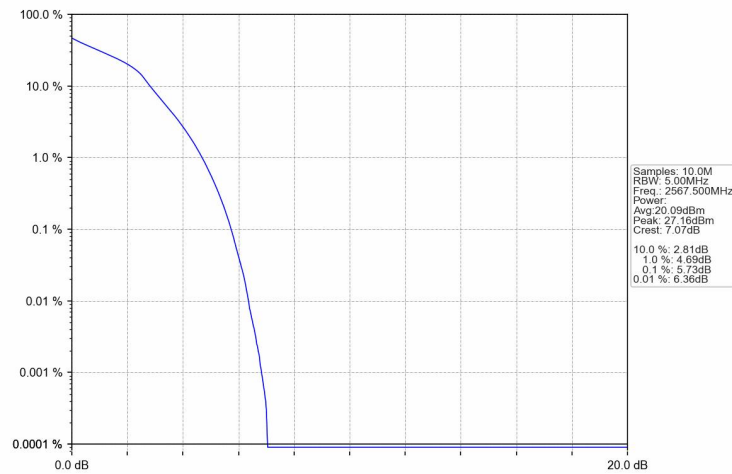
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV

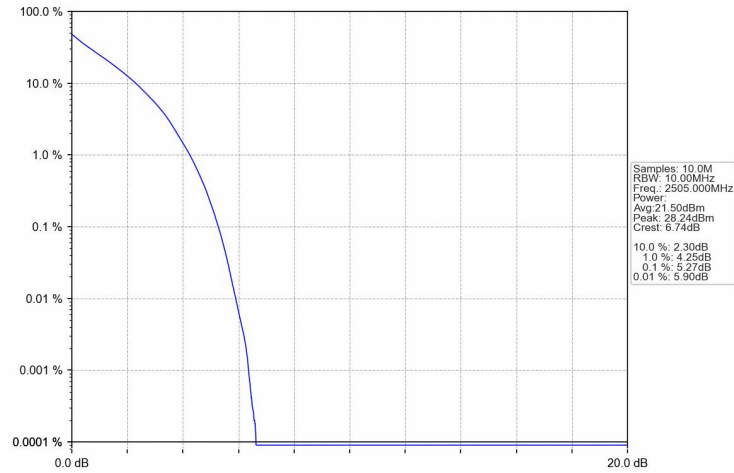


Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV

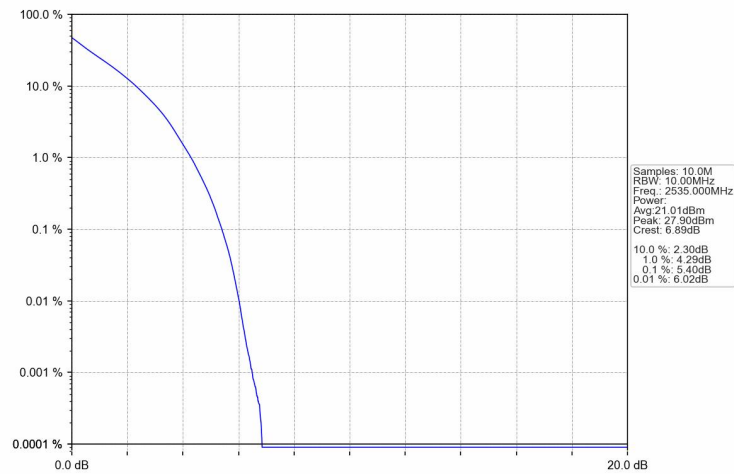


5.2.2 B7_10MHz

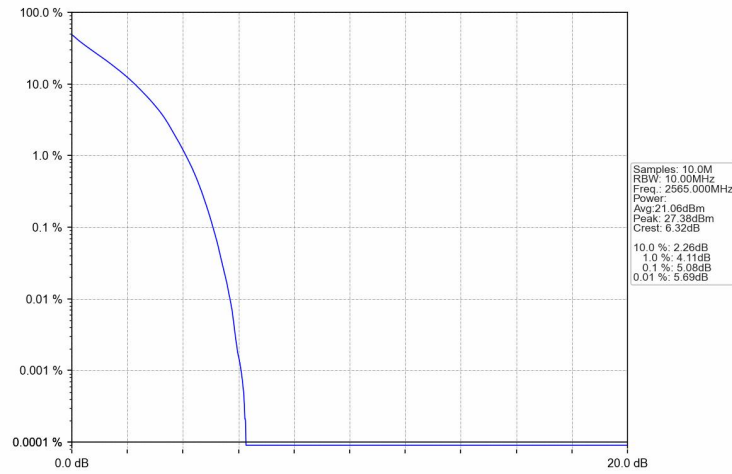
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



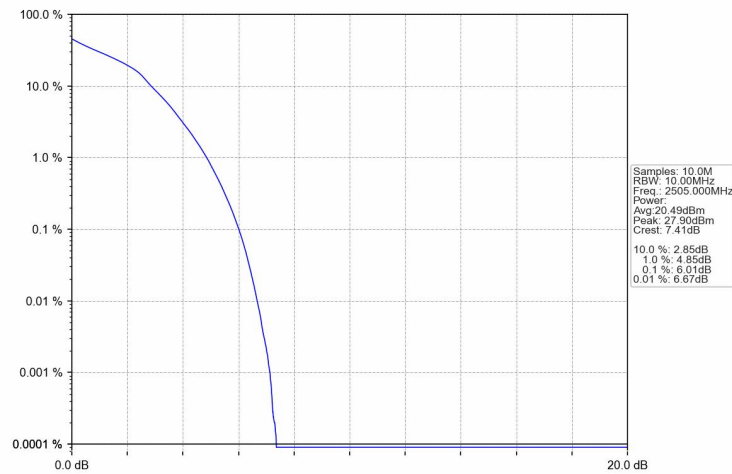
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



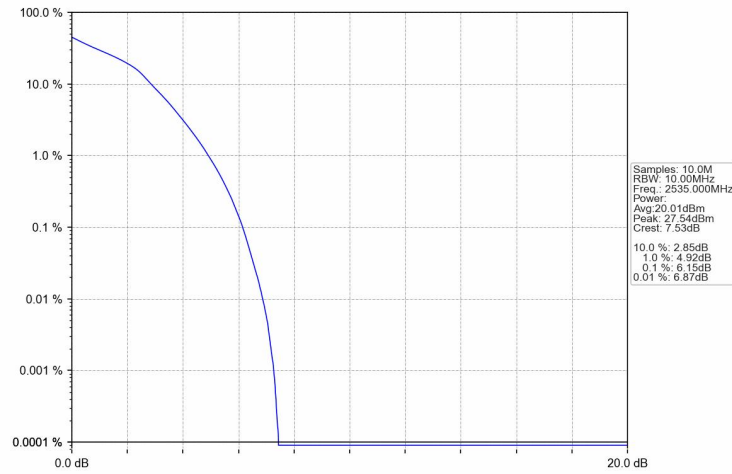
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV



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



Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV

