

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	23.15	0.50	23.65	<=33.01	Pass
			13	23.16	0.50	23.66	<=33.01	Pass
			24	23.26	0.50	23.76	<=33.01	Pass
		12	0	22.78	0.50	23.28	<=33.01	Pass
			6	23.00	0.50	23.50	<=33.01	Pass
			13	22.96	0.50	23.46	<=33.01	Pass
		25	0	22.85	0.50	23.35	<=33.01	Pass
	2535	1	0	22.84	0.50	23.34	<=33.01	Pass
			13	22.78	0.50	23.28	<=33.01	Pass
			24	22.76	0.50	23.26	<=33.01	Pass
		12	0	22.86	0.50	23.36	<=33.01	Pass
			6	22.46	0.50	22.96	<=33.01	Pass
			13	22.19	0.50	22.69	<=33.01	Pass
		25	0	21.91	0.50	22.41	<=33.01	Pass
	2567.5	1	0	22.95	0.50	23.45	<=33.01	Pass
			13	22.85	0.50	23.35	<=33.01	Pass
			24	22.74	0.50	23.24	<=33.01	Pass
		12	0	22.75	0.50	23.25	<=33.01	Pass
			6	22.86	0.50	23.36	<=33.01	Pass
			13	22.98	0.50	23.48	<=33.01	Pass
		25	0	22.95	0.50	23.45	<=33.01	Pass
16QAM	2502.5	1	0	22.06	0.50	22.56	<=33.01	Pass
			13	22.16	0.50	22.66	<=33.01	Pass
			24	21.80	0.50	22.30	<=33.01	Pass
		12	0	21.51	0.50	22.01	<=33.01	Pass
			6	21.43	0.50	21.93	<=33.01	Pass
			13	21.36	0.50	21.86	<=33.01	Pass
		25	0	21.28	0.50	21.78	<=33.01	Pass
	2535	1	0	22.25	0.50	22.75	<=33.01	Pass
			13	22.35	0.50	22.85	<=33.01	Pass
			24	22.31	0.50	22.81	<=33.01	Pass
		12	0	21.72	0.50	22.22	<=33.01	Pass
			6	21.78	0.50	22.28	<=33.01	Pass
			13	21.50	0.50	22.00	<=33.01	Pass
		25	0	21.23	0.50	21.73	<=33.01	Pass
	2567.5	1	0	22.48	0.50	22.98	<=33.01	Pass
			13	22.49	0.50	22.99	<=33.01	Pass
			24	22.34	0.50	22.84	<=33.01	Pass
		12	0	22.07	0.50	22.57	<=33.01	Pass
			6	22.17	0.50	22.67	<=33.01	Pass
			13	22.14	0.50	22.64	<=33.01	Pass
		25	0	21.89	0.50	22.39	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	23.55	0.50	24.05	<=33.01	Pass
			25	23.71	0.50	24.21	<=33.01	Pass
			49	23.46	0.50	23.96	<=33.01	Pass
		25	0	23.23	0.50	23.73	<=33.01	Pass
			13	23.25	0.50	23.75	<=33.01	Pass
			25	23.18	0.50	23.68	<=33.01	Pass
		50	0	23.32	0.50	23.82	<=33.01	Pass
			0	23.41	0.50	23.91	<=33.01	Pass
			25	23.42	0.50	23.92	<=33.01	Pass
	2535	1	49	23.49	0.50	23.99	<=33.01	Pass
			0	22.92	0.50	23.42	<=33.01	Pass
			13	23.01	0.50	23.51	<=33.01	Pass
		25	25	23.11	0.50	23.61	<=33.01	Pass
			0	23.17	0.50	23.67	<=33.01	Pass
			0	23.41	0.50	23.91	<=33.01	Pass
		25	25	23.60	0.50	24.10	<=33.01	Pass
			49	23.57	0.50	24.07	<=33.01	Pass
			0	23.06	0.50	23.56	<=33.01	Pass
	2565	25	13	23.04	0.50	23.54	<=33.01	Pass
			25	22.97	0.50	23.47	<=33.01	Pass
			0	23.00	0.50	23.50	<=33.01	Pass
16QAM	2505	1	0	22.39	0.50	22.89	<=33.01	Pass
			25	22.49	0.50	22.99	<=33.01	Pass
			49	22.56	0.50	23.06	<=33.01	Pass
		25	0	22.11	0.50	22.61	<=33.01	Pass
			13	21.92	0.50	22.42	<=33.01	Pass
			25	22.08	0.50	22.58	<=33.01	Pass
		50	0	22.13	0.50	22.63	<=33.01	Pass
			0	22.71	0.50	23.21	<=33.01	Pass
			25	22.77	0.50	23.27	<=33.01	Pass
	2535	1	49	22.68	0.50	23.18	<=33.01	Pass
			0	22.17	0.50	22.67	<=33.01	Pass
			13	21.98	0.50	22.48	<=33.01	Pass
		25	25	22.18	0.50	22.68	<=33.01	Pass
			0	22.21	0.50	22.71	<=33.01	Pass
			0	22.90	0.50	23.40	<=33.01	Pass
		25	25	23.03	0.50	23.53	<=33.01	Pass
			49	22.98	0.50	23.48	<=33.01	Pass
			0	22.19	0.50	22.69	<=33.01	Pass
	2565	25	13	22.18	0.50	22.68	<=33.01	Pass
			25	22.15	0.50	22.65	<=33.01	Pass
			0	22.11	0.50	22.61	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	23.54	0.50	24.04	<=33.01	Pass
			38	23.62	0.50	24.12	<=33.01	Pass
			74	23.48	0.50	23.98	<=33.01	Pass
		36	0	23.17	0.50	23.67	<=33.01	Pass
			18	23.17	0.50	23.67	<=33.01	Pass
			39	23.20	0.50	23.70	<=33.01	Pass
		75	0	23.19	0.50	23.69	<=33.01	Pass
	2535	1	0	22.60	0.50	23.10	<=33.01	Pass
			38	22.38	0.50	22.88	<=33.01	Pass
			74	22.56	0.50	23.06	<=33.01	Pass
		36	0	22.57	0.50	23.07	<=33.01	Pass
			18	22.80	0.50	23.30	<=33.01	Pass
			39	22.07	0.50	22.57	<=33.01	Pass
		75	0	22.75	0.50	23.25	<=33.01	Pass
	2562.5	1	0	22.94	0.50	23.44	<=33.01	Pass
			38	22.71	0.50	23.21	<=33.01	Pass
			74	23.23	0.50	23.73	<=33.01	Pass
		36	0	22.39	0.50	22.89	<=33.01	Pass
			18	22.75	0.50	23.25	<=33.01	Pass
			39	21.84	0.50	22.34	<=33.01	Pass
		75	0	22.11	0.50	22.61	<=33.01	Pass
16QAM	2507.5	1	0	22.93	0.50	23.43	<=33.01	Pass
			38	23.04	0.50	23.54	<=33.01	Pass
			74	22.79	0.50	23.29	<=33.01	Pass
		36	0	22.01	0.50	22.51	<=33.01	Pass
			18	21.76	0.50	22.26	<=33.01	Pass
			39	20.91	0.50	21.41	<=33.01	Pass
		75	0	21.76	0.50	22.26	<=33.01	Pass
	2535	1	0	21.58	0.50	22.08	<=33.01	Pass
			38	22.40	0.50	22.90	<=33.01	Pass
			74	22.40	0.50	22.90	<=33.01	Pass
		36	0	21.98	0.50	22.48	<=33.01	Pass
			18	21.88	0.50	22.38	<=33.01	Pass
			39	22.02	0.50	22.52	<=33.01	Pass
		75	0	21.85	0.50	22.35	<=33.01	Pass
	2562.5	1	0	22.16	0.50	22.66	<=33.01	Pass
			38	22.05	0.50	22.55	<=33.01	Pass
			74	22.12	0.50	22.62	<=33.01	Pass
		36	0	21.14	0.50	21.64	<=33.01	Pass
			18	21.28	0.50	21.78	<=33.01	Pass
			39	21.45	0.50	21.95	<=33.01	Pass
		75	0	21.47	0.50	21.97	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	22.89	0.50	23.39	<=33.01	Pass
			50	23.23	0.50	23.73	<=33.01	Pass
			99	23.19	0.50	23.69	<=33.01	Pass
		50	0	23.17	0.50	23.67	<=33.01	Pass
			25	23.22	0.50	23.72	<=33.01	Pass
			50	23.16	0.50	23.66	<=33.01	Pass
		100	0	23.19	0.50	23.69	<=33.01	Pass
			50	23.19	0.50	23.69	<=33.01	Pass
			99	23.19	0.50	23.69	<=33.01	Pass
	2535	1	0	23.40	0.50	23.90	<=33.01	Pass
			50	23.44	0.50	23.94	<=33.01	Pass
			99	23.38	0.50	23.88	<=33.01	Pass
		50	0	23.11	0.50	23.61	<=33.01	Pass
			25	23.12	0.50	23.62	<=33.01	Pass
			50	23.02	0.50	23.52	<=33.01	Pass
		100	0	23.04	0.50	23.54	<=33.01	Pass
			50	23.04	0.50	23.54	<=33.01	Pass
			99	23.04	0.50	23.54	<=33.01	Pass
	2560	1	0	23.22	0.50	23.72	<=33.01	Pass
			50	23.37	0.50	23.87	<=33.01	Pass
			99	23.36	0.50	23.86	<=33.01	Pass
		50	0	22.90	0.50	23.40	<=33.01	Pass
			25	22.92	0.50	23.42	<=33.01	Pass
			50	22.96	0.50	23.46	<=33.01	Pass
		100	0	22.94	0.50	23.44	<=33.01	Pass
			50	22.94	0.50	23.44	<=33.01	Pass
			99	22.94	0.50	23.44	<=33.01	Pass
16QAM	2510	1	0	23.23	0.50	23.73	<=33.01	Pass
			50	23.35	0.50	23.85	<=33.01	Pass
			99	23.28	0.50	23.78	<=33.01	Pass
		50	0	22.17	0.50	22.67	<=33.01	Pass
			25	21.94	0.50	22.44	<=33.01	Pass
			50	22.02	0.50	22.52	<=33.01	Pass
		100	0	22.14	0.50	22.64	<=33.01	Pass
			50	22.14	0.50	22.64	<=33.01	Pass
			99	22.14	0.50	22.64	<=33.01	Pass
	2535	1	0	22.53	0.50	23.03	<=33.01	Pass
			50	22.68	0.50	23.18	<=33.01	Pass
			99	22.55	0.50	23.05	<=33.01	Pass
		50	0	21.95	0.50	22.45	<=33.01	Pass
			25	21.94	0.50	22.44	<=33.01	Pass
			50	21.84	0.50	22.34	<=33.01	Pass
		100	0	21.97	0.50	22.47	<=33.01	Pass
			50	21.97	0.50	22.47	<=33.01	Pass
			99	21.97	0.50	22.47	<=33.01	Pass
	2560	1	0	22.43	0.50	22.93	<=33.01	Pass
			50	22.56	0.50	23.06	<=33.01	Pass
			99	22.55	0.50	23.05	<=33.01	Pass
		50	0	21.87	0.50	22.37	<=33.01	Pass
			25	21.95	0.50	22.45	<=33.01	Pass
			50	21.85	0.50	22.35	<=33.01	Pass
		100	0	21.73	0.50	22.23	<=33.01	Pass
			50	21.73	0.50	22.23	<=33.01	Pass
			99	21.73	0.50	22.23	<=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	3.29	-2.847	-0.0011	-2.5 to 2.5	Pass
					3.87	7.482	0.0030	-2.5 to 2.5	Pass
					4.45	-1.073	-0.0004	-2.5 to 2.5	Pass
				-30	3.87	-8.640	-0.0035	-2.5 to 2.5	Pass
				-20	3.87	5.035	0.0020	-2.5 to 2.5	Pass
				-10	3.87	-3.061	-0.0012	-2.5 to 2.5	Pass
				0	3.87	-9.799	-0.0039	-2.5 to 2.5	Pass
				10	3.87	6.537	0.0026	-2.5 to 2.5	Pass
				30	3.87	14.148	0.0057	-2.5 to 2.5	Pass
				40	3.87	9.341	0.0037	-2.5 to 2.5	Pass
				50	3.87	-9.398	-0.0038	-2.5 to 2.5	Pass
	2535	25	0	20	3.29	17.066	0.0067	-2.5 to 2.5	Pass
					3.87	5.250	0.0021	-2.5 to 2.5	Pass
					4.45	14.348	0.0057	-2.5 to 2.5	Pass
				-30	3.87	1.101	0.0004	-2.5 to 2.5	Pass
				-20	3.87	-5.393	-0.0021	-2.5 to 2.5	Pass
				-10	3.87	1.616	0.0006	-2.5 to 2.5	Pass
				0	3.87	-0.930	-0.0004	-2.5 to 2.5	Pass
				10	3.87	1.445	0.0006	-2.5 to 2.5	Pass
				30	3.87	-13.247	-0.0052	-2.5 to 2.5	Pass
				40	3.87	-1.245	-0.0005	-2.5 to 2.5	Pass
				50	3.87	17.653	0.0070	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.29	-8.726	-0.0034	-2.5 to 2.5	Pass
					3.87	2.718	0.0011	-2.5 to 2.5	Pass
					4.45	-11.873	-0.0046	-2.5 to 2.5	Pass
				-30	3.87	-10.171	-0.0040	-2.5 to 2.5	Pass
				-20	3.87	4.077	0.0016	-2.5 to 2.5	Pass
				-10	3.87	10.786	0.0042	-2.5 to 2.5	Pass
				0	3.87	12.646	0.0049	-2.5 to 2.5	Pass
				10	3.87	1.187	0.0005	-2.5 to 2.5	Pass
				30	3.87	-1.717	-0.0007	-2.5 to 2.5	Pass
				40	3.87	-0.658	-0.0003	-2.5 to 2.5	Pass
				50	3.87	-6.924	-0.0027	-2.5 to 2.5	Pass
16QAM	2502.5	25	0	20	3.29	0.529	0.0002	-2.5 to 2.5	Pass
					3.87	1.030	0.0004	-2.5 to 2.5	Pass
					4.45	2.503	0.0010	-2.5 to 2.5	Pass
				-30	3.87	15.435	0.0062	-2.5 to 2.5	Pass
				-20	3.87	6.180	0.0025	-2.5 to 2.5	Pass
				-10	3.87	-0.515	-0.0002	-2.5 to 2.5	Pass
				0	3.87	14.491	0.0058	-2.5 to 2.5	Pass
				10	3.87	-5.064	-0.0020	-2.5 to 2.5	Pass
				30	3.87	7.739	0.0031	-2.5 to 2.5	Pass
				40	3.87	3.977	0.0016	-2.5 to 2.5	Pass
				50	3.87	4.263	0.0017	-2.5 to 2.5	Pass
	2535	25	0	20	3.29	8.998	0.0035	-2.5 to 2.5	Pass
					3.87	-3.004	-0.0012	-2.5 to 2.5	Pass
					4.45	-9.055	-0.0036	-2.5 to 2.5	Pass
				-30	3.87	-6.595	-0.0026	-2.5 to 2.5	Pass
				-20	3.87	11.501	0.0045	-2.5 to 2.5	Pass
				-10	3.87	2.089	0.0008	-2.5 to 2.5	Pass

				0	3.87	6.509	0.0026	-2.5 to 2.5	Pass
				10	3.87	2.675	0.0011	-2.5 to 2.5	Pass
				30	3.87	-3.133	-0.0012	-2.5 to 2.5	Pass
				40	3.87	-3.519	-0.0014	-2.5 to 2.5	Pass
				50	3.87	-2.375	-0.0009	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.29	-4.048	-0.0016	-2.5 to 2.5	Pass
					3.87	-2.375	-0.0009	-2.5 to 2.5	Pass
					4.45	3.119	0.0012	-2.5 to 2.5	Pass
				-30	3.87	12.488	0.0049	-2.5 to 2.5	Pass
				-20	3.87	7.052	0.0027	-2.5 to 2.5	Pass
				-10	3.87	4.635	0.0018	-2.5 to 2.5	Pass
				0	3.87	1.259	0.0005	-2.5 to 2.5	Pass
				10	3.87	-2.832	-0.0011	-2.5 to 2.5	Pass
				30	3.87	4.220	0.0016	-2.5 to 2.5	Pass
				40	3.87	17.924	0.0070	-2.5 to 2.5	Pass
				50	3.87	-6.380	-0.0025	-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	3.29	-4.535	-0.0018	-2.5 to 2.5	Pass
					3.87	0.587	0.0002	-2.5 to 2.5	Pass
					4.45	-9.427	-0.0038	-2.5 to 2.5	Pass
				-30	3.87	-4.120	-0.0016	-2.5 to 2.5	Pass
				-20	3.87	6.738	0.0027	-2.5 to 2.5	Pass
				-10	3.87	6.623	0.0026	-2.5 to 2.5	Pass
				0	3.87	-2.017	-0.0008	-2.5 to 2.5	Pass
				10	3.87	1.144	0.0005	-2.5 to 2.5	Pass
				30	3.87	-3.834	-0.0015	-2.5 to 2.5	Pass
				40	3.87	4.635	0.0019	-2.5 to 2.5	Pass
	2535	50	0	50	3.87	8.297	0.0033	-2.5 to 2.5	Pass
				20	3.29	3.977	0.0016	-2.5 to 2.5	Pass
					3.87	1.903	0.0008	-2.5 to 2.5	Pass
					4.45	-3.033	-0.0012	-2.5 to 2.5	Pass
				-30	3.87	-3.591	-0.0014	-2.5 to 2.5	Pass
				-20	3.87	-2.146	-0.0008	-2.5 to 2.5	Pass
				-10	3.87	4.749	0.0019	-2.5 to 2.5	Pass
				0	3.87	8.597	0.0034	-2.5 to 2.5	Pass
				10	3.87	-2.146	-0.0008	-2.5 to 2.5	Pass
				30	3.87	-3.433	-0.0014	-2.5 to 2.5	Pass
	2565	50	0	40	3.87	0.787	0.0003	-2.5 to 2.5	Pass
				50	3.87	3.276	0.0013	-2.5 to 2.5	Pass
				20	3.29	-2.589	-0.0010	-2.5 to 2.5	Pass
					3.87	-9.112	-0.0036	-2.5 to 2.5	Pass
					4.45	-2.403	-0.0009	-2.5 to 2.5	Pass
				-30	3.87	-2.346	-0.0009	-2.5 to 2.5	Pass
				-20	3.87	7.968	0.0031	-2.5 to 2.5	Pass
				-10	3.87	8.283	0.0032	-2.5 to 2.5	Pass
				0	3.87	-9.642	-0.0038	-2.5 to 2.5	Pass
				10	3.87	-1.402	-0.0005	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.87	3.448	0.0014	-2.5 to 2.5	Pass
					3.87	4.048	0.0016	-2.5 to 2.5	Pass
					4.45	-3.076	-0.0012	-2.5 to 2.5	Pass
				50	3.87	-2.861	-0.0011	-2.5 to 2.5	Pass

				-30	3.87	3.605	0.0014	-2.5 to 2.5	Pass
				-20	3.87	6.237	0.0025	-2.5 to 2.5	Pass
				-10	3.87	5.035	0.0020	-2.5 to 2.5	Pass
				0	3.87	-4.191	-0.0017	-2.5 to 2.5	Pass
				10	3.87	5.794	0.0023	-2.5 to 2.5	Pass
				30	3.87	-1.545	-0.0006	-2.5 to 2.5	Pass
				40	3.87	3.891	0.0016	-2.5 to 2.5	Pass
				50	3.87	5.894	0.0024	-2.5 to 2.5	Pass
	2535	50	0	20	3.29	-5.808	-0.0023	-2.5 to 2.5	Pass
					3.87	4.907	0.0019	-2.5 to 2.5	Pass
					4.45	-6.022	-0.0024	-2.5 to 2.5	Pass
				-30	3.87	-0.100	0.0000	-2.5 to 2.5	Pass
				-20	3.87	-5.322	-0.0021	-2.5 to 2.5	Pass
				-10	3.87	0.873	0.0003	-2.5 to 2.5	Pass
				0	3.87	-4.020	-0.0016	-2.5 to 2.5	Pass
				10	3.87	8.068	0.0032	-2.5 to 2.5	Pass
				30	3.87	-0.415	-0.0002	-2.5 to 2.5	Pass
				40	3.87	3.948	0.0016	-2.5 to 2.5	Pass
				50	3.87	0.215	0.0001	-2.5 to 2.5	Pass
	2565	50	0	20	3.29	4.234	0.0017	-2.5 to 2.5	Pass
					3.87	-4.764	-0.0019	-2.5 to 2.5	Pass
					4.45	1.230	0.0005	-2.5 to 2.5	Pass
				-30	3.87	5.307	0.0021	-2.5 to 2.5	Pass
				-20	3.87	-5.136	-0.0020	-2.5 to 2.5	Pass
				-10	3.87	2.003	0.0008	-2.5 to 2.5	Pass
				0	3.87	-7.768	-0.0030	-2.5 to 2.5	Pass
				10	3.87	-7.110	-0.0028	-2.5 to 2.5	Pass
				30	3.87	-2.618	-0.0010	-2.5 to 2.5	Pass
				40	3.87	1.688	0.0007	-2.5 to 2.5	Pass
				50	3.87	4.621	0.0018	-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	3.29	-4.306	-0.0017	-2.5 to 2.5	Pass
					3.87	8.769	0.0035	-2.5 to 2.5	Pass
					4.45	-1.459	-0.0006	-2.5 to 2.5	Pass
				-30	3.87	0.844	0.0003	-2.5 to 2.5	Pass
				-20	3.87	4.363	0.0017	-2.5 to 2.5	Pass
				-10	3.87	0.157	0.0001	-2.5 to 2.5	Pass
				0	3.87	8.883	0.0035	-2.5 to 2.5	Pass
				10	3.87	-2.131	-0.0008	-2.5 to 2.5	Pass
				30	3.87	0.944	0.0004	-2.5 to 2.5	Pass
				40	3.87	-3.333	-0.0013	-2.5 to 2.5	Pass
				50	3.87	-2.503	-0.0010	-2.5 to 2.5	Pass
	2535	75	0	20	3.29	1.531	0.0006	-2.5 to 2.5	Pass
					3.87	3.905	0.0015	-2.5 to 2.5	Pass
					4.45	0.343	0.0001	-2.5 to 2.5	Pass
				-30	3.87	3.834	0.0015	-2.5 to 2.5	Pass
				-20	3.87	2.089	0.0008	-2.5 to 2.5	Pass
				-10	3.87	2.389	0.0009	-2.5 to 2.5	Pass
				0	3.87	1.373	0.0005	-2.5 to 2.5	Pass
				10	3.87	1.616	0.0006	-2.5 to 2.5	Pass
				30	3.87	-1.330	-0.0005	-2.5 to 2.5	Pass
				40	3.87	3.533	0.0014	-2.5 to 2.5	Pass
				50	3.87	-4.964	-0.0020	-2.5 to 2.5	Pass

	2562.5	75	0	20	3.29	6.194	0.0024	-2.5 to 2.5	Pass
					3.87	-1.659	-0.0006	-2.5 to 2.5	Pass
					4.45	6.981	0.0027	-2.5 to 2.5	Pass
				-30	3.87	5.636	0.0022	-2.5 to 2.5	Pass
				-20	3.87	-3.219	-0.0013	-2.5 to 2.5	Pass
				-10	3.87	-1.960	-0.0008	-2.5 to 2.5	Pass
				0	3.87	-0.772	-0.0003	-2.5 to 2.5	Pass
				10	3.87	-2.203	-0.0009	-2.5 to 2.5	Pass
				30	3.87	-4.263	-0.0017	-2.5 to 2.5	Pass
				40	3.87	3.462	0.0014	-2.5 to 2.5	Pass
				50	3.87	4.220	0.0016	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.29	1.016	0.0004	-2.5 to 2.5	Pass
					3.87	-9.012	-0.0036	-2.5 to 2.5	Pass
					4.45	-3.834	-0.0015	-2.5 to 2.5	Pass
				-30	3.87	-5.307	-0.0021	-2.5 to 2.5	Pass
				-20	3.87	-0.815	-0.0003	-2.5 to 2.5	Pass
				-10	3.87	4.263	0.0017	-2.5 to 2.5	Pass
				0	3.87	0.257	0.0001	-2.5 to 2.5	Pass
				10	3.87	-0.415	-0.0002	-2.5 to 2.5	Pass
				30	3.87	-0.257	-0.0001	-2.5 to 2.5	Pass
				40	3.87	0.458	0.0002	-2.5 to 2.5	Pass
				50	3.87	-2.718	-0.0011	-2.5 to 2.5	Pass
	2535	75	0	20	3.29	3.090	0.0012	-2.5 to 2.5	Pass
					3.87	-2.761	-0.0011	-2.5 to 2.5	Pass
					4.45	-0.544	-0.0002	-2.5 to 2.5	Pass
				-30	3.87	10.242	0.0040	-2.5 to 2.5	Pass
				-20	3.87	-7.324	-0.0029	-2.5 to 2.5	Pass
				-10	3.87	-5.307	-0.0021	-2.5 to 2.5	Pass
				0	3.87	2.074	0.0008	-2.5 to 2.5	Pass
				10	3.87	-3.104	-0.0012	-2.5 to 2.5	Pass
				30	3.87	-0.529	-0.0002	-2.5 to 2.5	Pass
				40	3.87	-5.794	-0.0023	-2.5 to 2.5	Pass
				50	3.87	-2.575	-0.0010	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.29	-0.687	-0.0003	-2.5 to 2.5	Pass
					3.87	-0.587	-0.0002	-2.5 to 2.5	Pass
					4.45	-1.602	-0.0006	-2.5 to 2.5	Pass
				-30	3.87	-8.297	-0.0032	-2.5 to 2.5	Pass
				-20	3.87	2.303	0.0009	-2.5 to 2.5	Pass
				-10	3.87	5.493	0.0021	-2.5 to 2.5	Pass
				0	3.87	1.602	0.0006	-2.5 to 2.5	Pass
				10	3.87	1.845	0.0007	-2.5 to 2.5	Pass
				30	3.87	5.851	0.0023	-2.5 to 2.5	Pass
				40	3.87	-2.861	-0.0011	-2.5 to 2.5	Pass
				50	3.87	-9.584	-0.0037	-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	3.29	-4.606	-0.0018	-2.5 to 2.5	Pass
					3.87	2.174	0.0009	-2.5 to 2.5	Pass
					4.45	-1.187	-0.0005	-2.5 to 2.5	Pass
				-30	3.87	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.87	-2.789	-0.0011	-2.5 to 2.5	Pass
				-10	3.87	-0.529	-0.0002	-2.5 to 2.5	Pass
				0	3.87	-2.661	-0.0011	-2.5 to 2.5	Pass
				10	3.87	1.059	0.0004	-2.5 to 2.5	Pass

				30	3.87	-1.259	-0.0005	-2.5 to 2.5	Pass
				40	3.87	1.144	0.0005	-2.5 to 2.5	Pass
				50	3.87	5.322	0.0021	-2.5 to 2.5	Pass
	2535	100	0	20	3.29	0.286	0.0001	-2.5 to 2.5	Pass
					3.87	10.500	0.0041	-2.5 to 2.5	Pass
					4.45	0.958	0.0004	-2.5 to 2.5	Pass
				-30	3.87	7.181	0.0028	-2.5 to 2.5	Pass
				-20	3.87	3.819	0.0015	-2.5 to 2.5	Pass
				-10	3.87	4.735	0.0019	-2.5 to 2.5	Pass
				0	3.87	4.463	0.0018	-2.5 to 2.5	Pass
				10	3.87	4.592	0.0018	-2.5 to 2.5	Pass
				30	3.87	-1.044	-0.0004	-2.5 to 2.5	Pass
				40	3.87	-3.676	-0.0015	-2.5 to 2.5	Pass
				50	3.87	-0.215	-0.0001	-2.5 to 2.5	Pass
	2560	100	0	20	3.29	-1.688	-0.0007	-2.5 to 2.5	Pass
					3.87	-1.974	-0.0008	-2.5 to 2.5	Pass
					4.45	5.779	0.0023	-2.5 to 2.5	Pass
				-30	3.87	4.492	0.0018	-2.5 to 2.5	Pass
				-20	3.87	3.233	0.0013	-2.5 to 2.5	Pass
				-10	3.87	1.731	0.0007	-2.5 to 2.5	Pass
				0	3.87	11.745	0.0046	-2.5 to 2.5	Pass
				10	3.87	0.787	0.0003	-2.5 to 2.5	Pass
				30	3.87	-0.386	-0.0002	-2.5 to 2.5	Pass
				40	3.87	0.544	0.0002	-2.5 to 2.5	Pass
				50	3.87	-2.761	-0.0011	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.29	0.858	0.0003	-2.5 to 2.5	Pass
					3.87	-2.646	-0.0011	-2.5 to 2.5	Pass
					4.45	1.717	0.0007	-2.5 to 2.5	Pass
				-30	3.87	0.730	0.0003	-2.5 to 2.5	Pass
				-20	3.87	0.815	0.0003	-2.5 to 2.5	Pass
				-10	3.87	-1.159	-0.0005	-2.5 to 2.5	Pass
				0	3.87	-3.619	-0.0014	-2.5 to 2.5	Pass
				10	3.87	0.587	0.0002	-2.5 to 2.5	Pass
				30	3.87	10.200	0.0041	-2.5 to 2.5	Pass
				40	3.87	7.868	0.0031	-2.5 to 2.5	Pass
				50	3.87	0.100	0.0000	-2.5 to 2.5	Pass
	2535	100	0	20	3.29	6.080	0.0024	-2.5 to 2.5	Pass
					3.87	-0.143	-0.0001	-2.5 to 2.5	Pass
					4.45	5.007	0.0020	-2.5 to 2.5	Pass
				-30	3.87	2.918	0.0012	-2.5 to 2.5	Pass
				-20	3.87	2.704	0.0011	-2.5 to 2.5	Pass
				-10	3.87	1.931	0.0008	-2.5 to 2.5	Pass
				0	3.87	-3.848	-0.0015	-2.5 to 2.5	Pass
				10	3.87	5.007	0.0020	-2.5 to 2.5	Pass
				30	3.87	-12.231	-0.0048	-2.5 to 2.5	Pass
				40	3.87	-6.552	-0.0026	-2.5 to 2.5	Pass
				50	3.87	-4.721	-0.0019	-2.5 to 2.5	Pass
	2560	100	0	20	3.29	-4.177	-0.0016	-2.5 to 2.5	Pass
					3.87	7.181	0.0028	-2.5 to 2.5	Pass
					4.45	1.845	0.0007	-2.5 to 2.5	Pass
				-30	3.87	1.960	0.0008	-2.5 to 2.5	Pass
				-20	3.87	5.708	0.0022	-2.5 to 2.5	Pass
				-10	3.87	3.147	0.0012	-2.5 to 2.5	Pass
				0	3.87	1.445	0.0006	-2.5 to 2.5	Pass
				10	3.87	4.406	0.0017	-2.5 to 2.5	Pass
				30	3.87	10.557	0.0041	-2.5 to 2.5	Pass
				40	3.87	-1.903	-0.0007	-2.5 to 2.5	Pass
				50	3.87	2.489	0.0010	-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

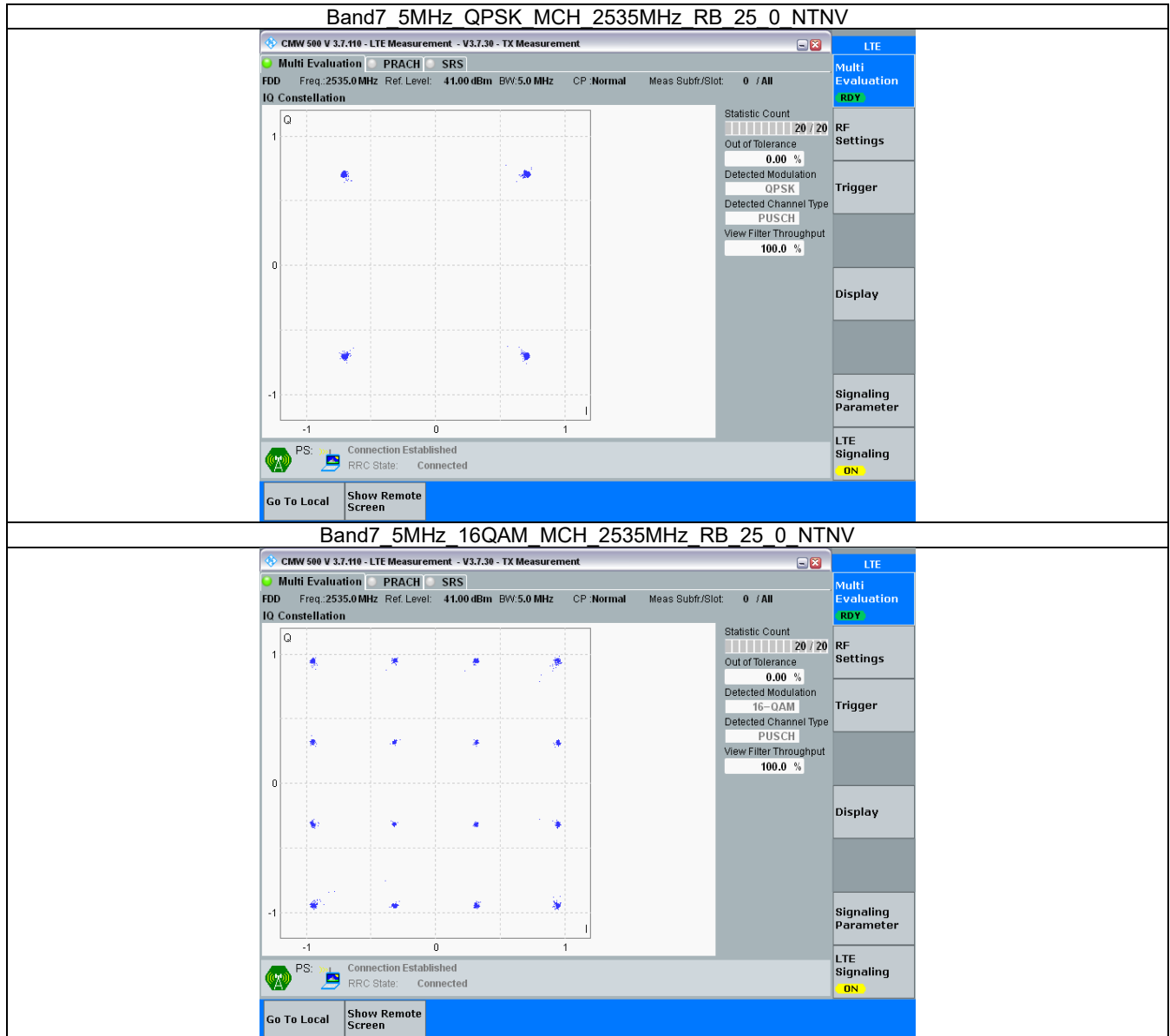
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.1.4 B7_20MHz

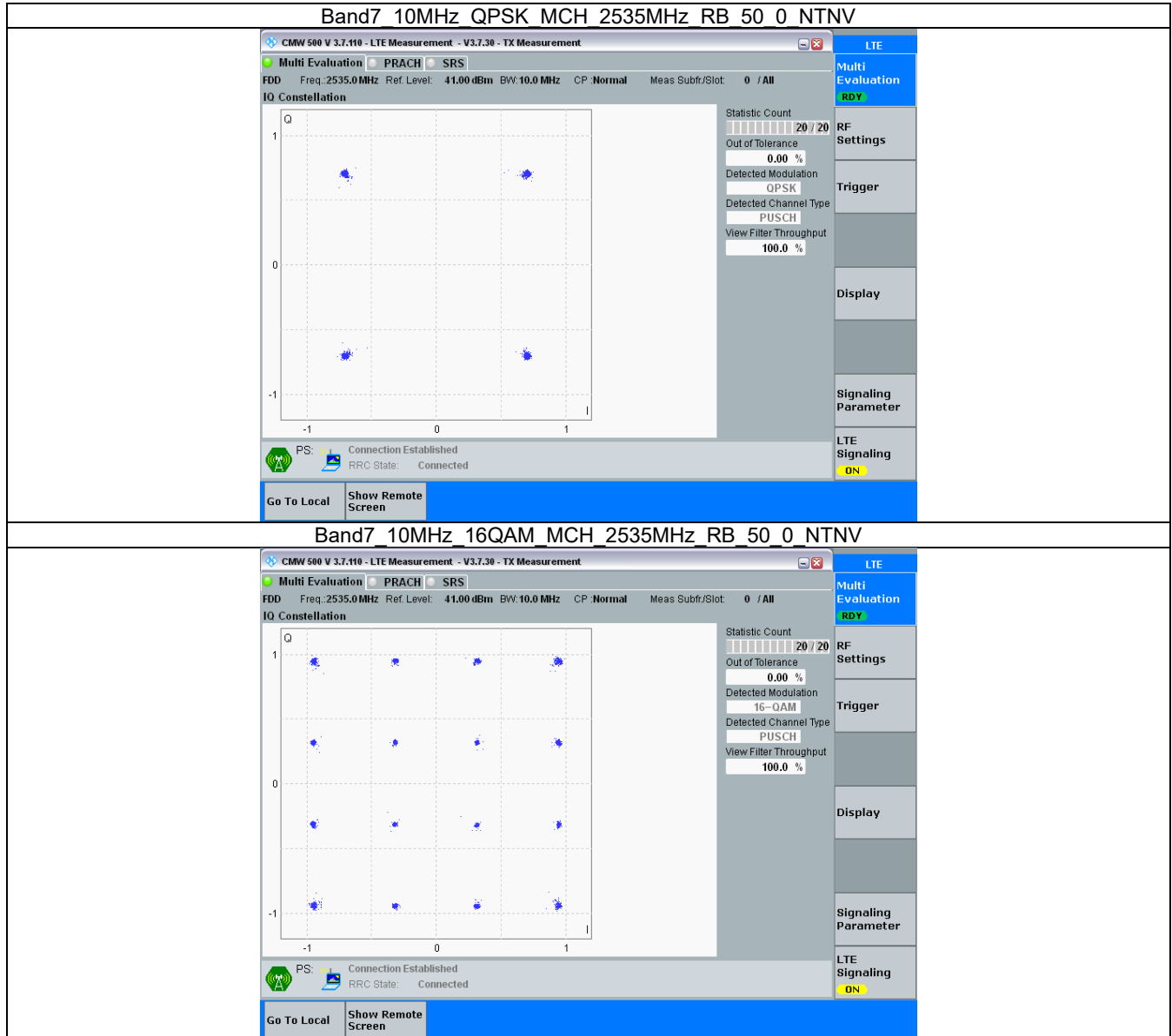
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

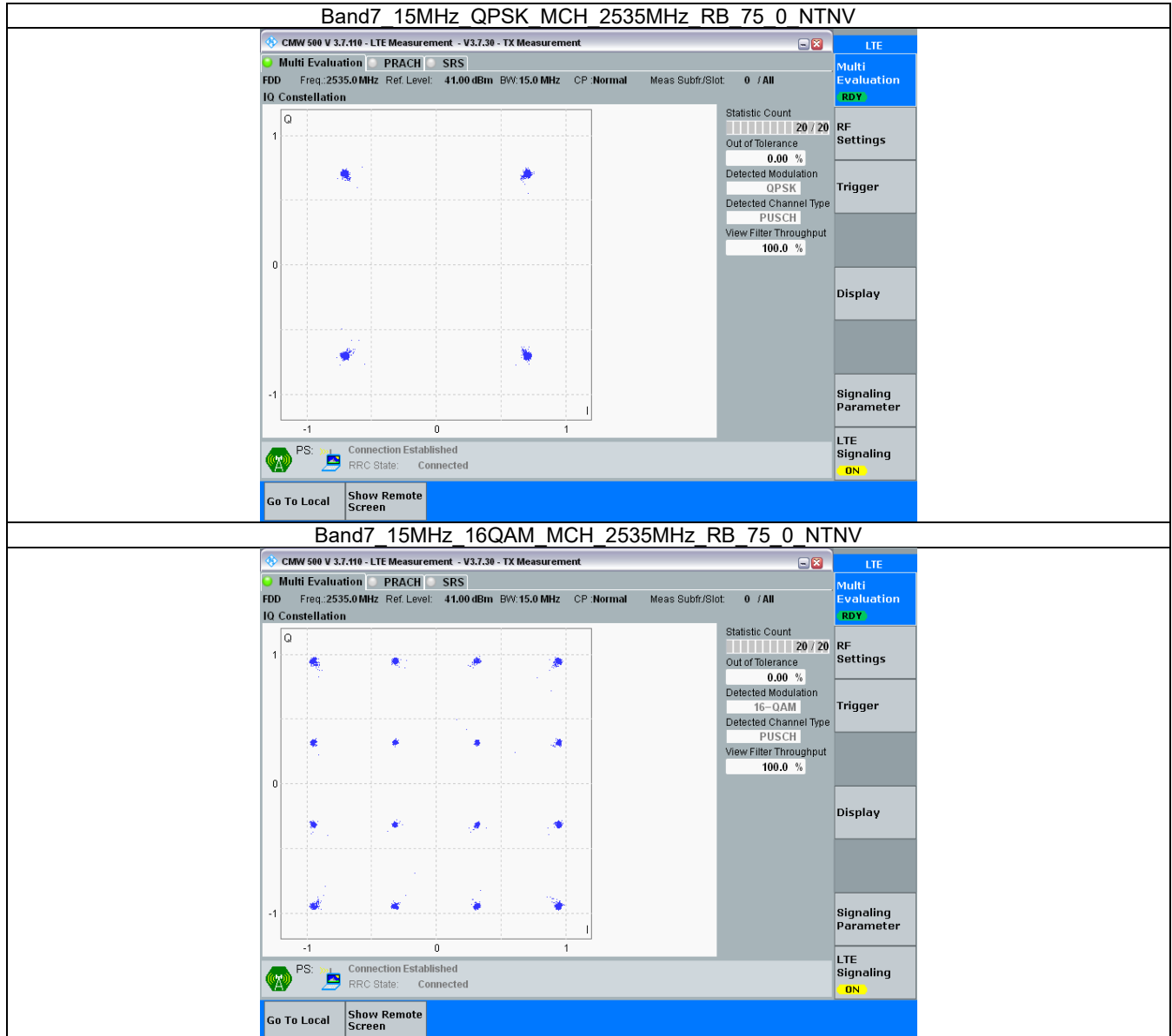
3.2.1 B7_5MHz



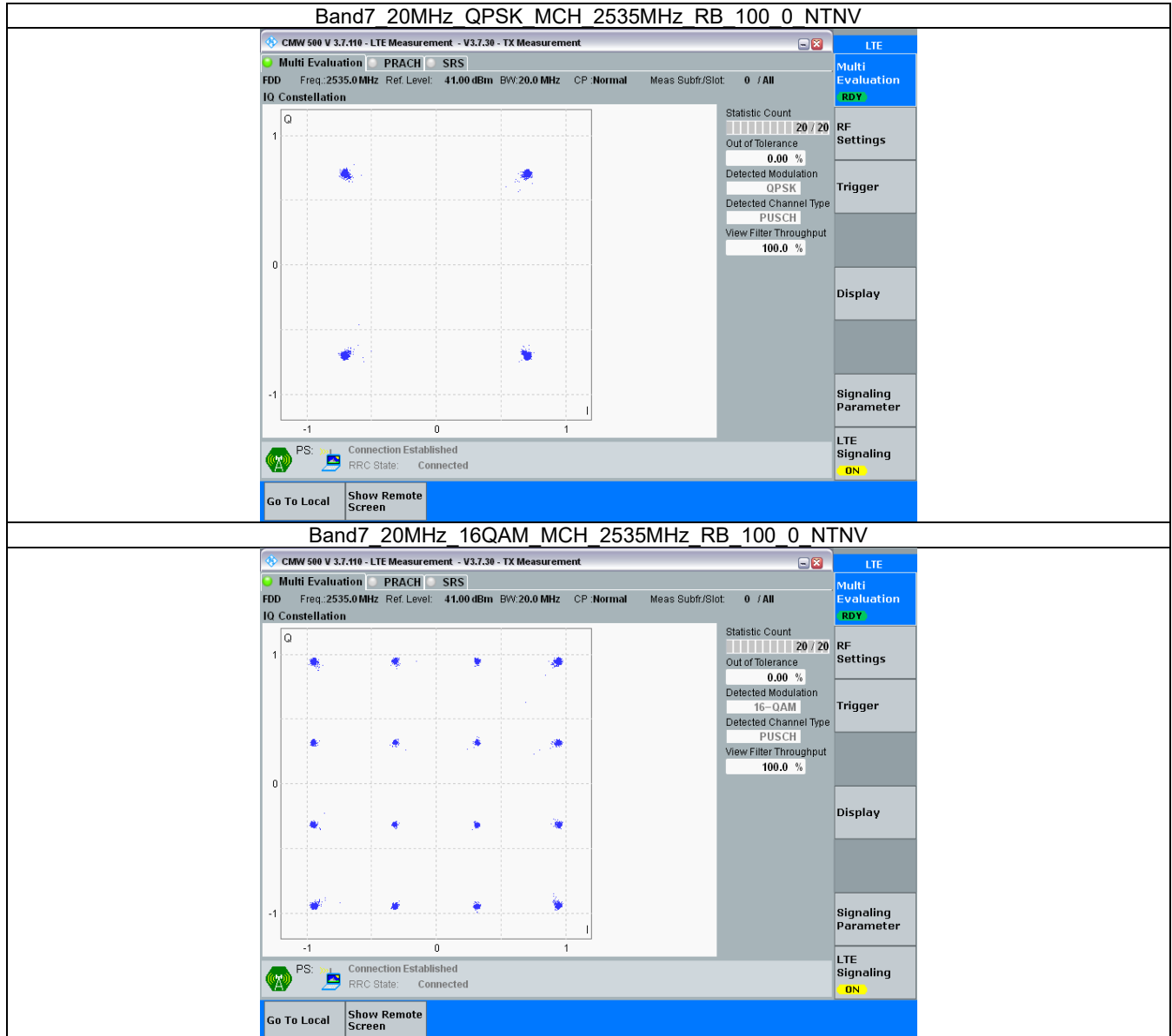
3.2.2 B7_10MHz



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	4.535	/	Pass
		2535	25	0	4.542	/	Pass
		2567.5	25	0	4.556	/	Pass
	16QAM	2502.5	25	0	4.546	/	Pass
		2535	25	0	4.562	/	Pass
		2567.5	25	0	4.536	/	Pass
10	QPSK	2505	50	0	9.069	/	Pass
		2535	50	0	9.043	/	Pass
		2565	50	0	9.077	/	Pass
	16QAM	2505	50	0	9.050	/	Pass
		2535	50	0	9.047	/	Pass
		2565	50	0	9.074	/	Pass
15	QPSK	2507.5	75	0	13.610	/	Pass
		2535	75	0	13.553	/	Pass
		2562.5	75	0	13.570	/	Pass
	16QAM	2507.5	75	0	13.620	/	Pass
		2535	75	0	13.568	/	Pass
		2562.5	75	0	13.589	/	Pass
20	QPSK	2510	100	0	18.090	/	Pass
		2535	100	0	18.070	/	Pass
		2560	100	0	18.090	/	Pass
	16QAM	2510	100	0	18.109	/	Pass
		2535	100	0	18.123	/	Pass
		2560	100	0	18.047	/	Pass

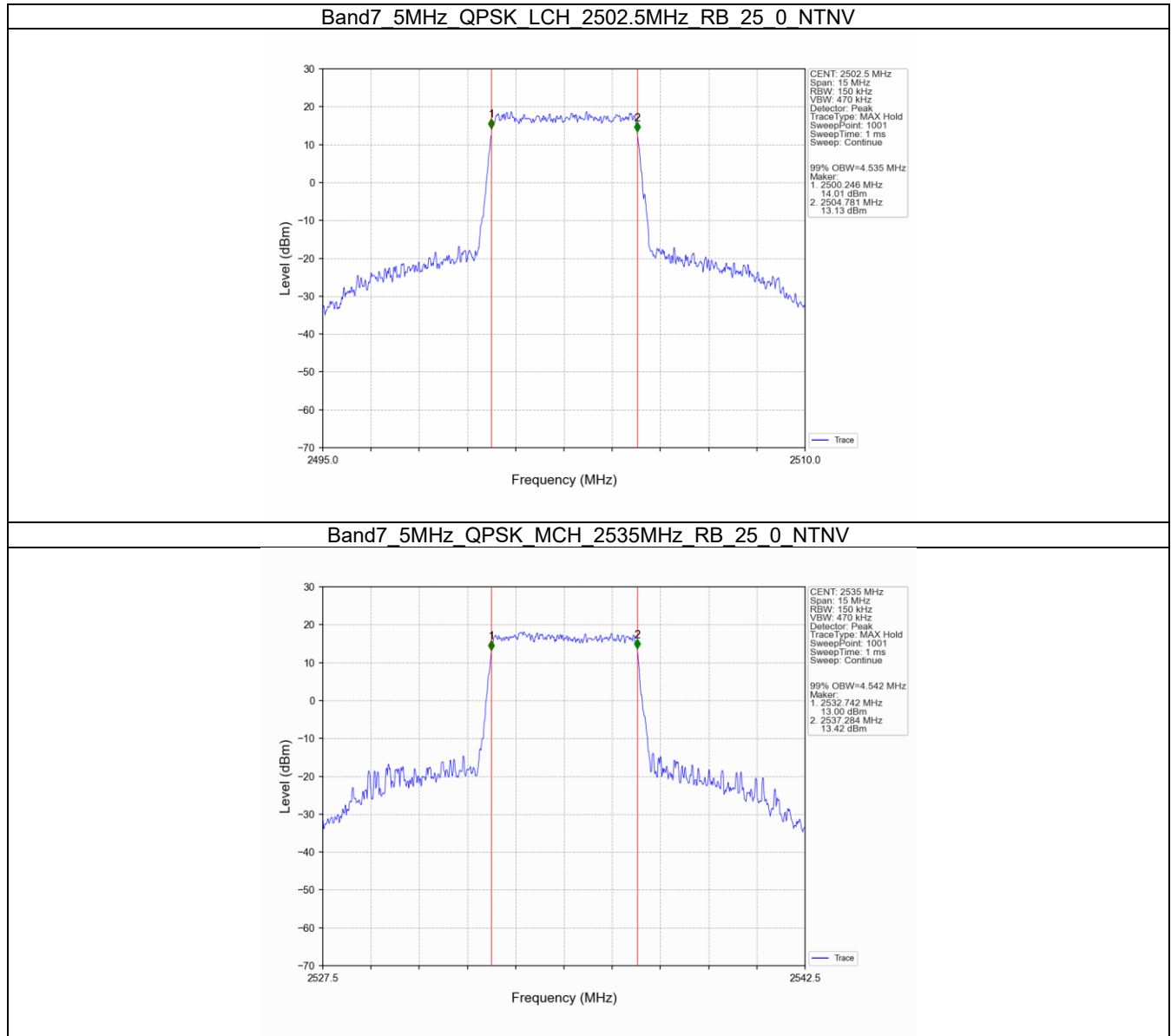
4.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.059	/	Pass
		2535	25	0	5.061	/	Pass
		2567.5	25	0	5.044	/	Pass
	16QAM	2502.5	25	0	5.053	/	Pass
		2535	25	0	5.066	/	Pass
		2567.5	25	0	5.072	/	Pass
10	QPSK	2505	50	0	9.924	/	Pass
		2535	50	0	9.945	/	Pass
		2565	50	0	9.979	/	Pass
	16QAM	2505	50	0	10.019	/	Pass
		2535	50	0	9.950	/	Pass
		2565	50	0	9.942	/	Pass
15	QPSK	2507.5	75	0	14.887	/	Pass
		2535	75	0	14.880	/	Pass
		2562.5	75	0	14.890	/	Pass

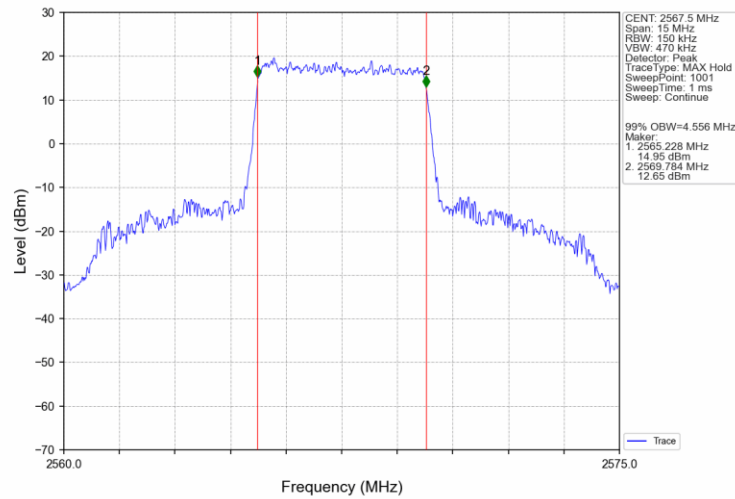
20	16QAM	2507.5	75	0	14.937	/	Pass
		2535	75	0	14.967	/	Pass
		2562.5	75	0	14.941	/	Pass
	QPSK	2510	100	0	19.861	/	Pass
		2535	100	0	19.781	/	Pass
		2560	100	0	19.619	/	Pass
	16QAM	2510	100	0	19.611	/	Pass
		2535	100	0	19.818	/	Pass
		2560	100	0	19.722	/	Pass

4.2 Test Graph

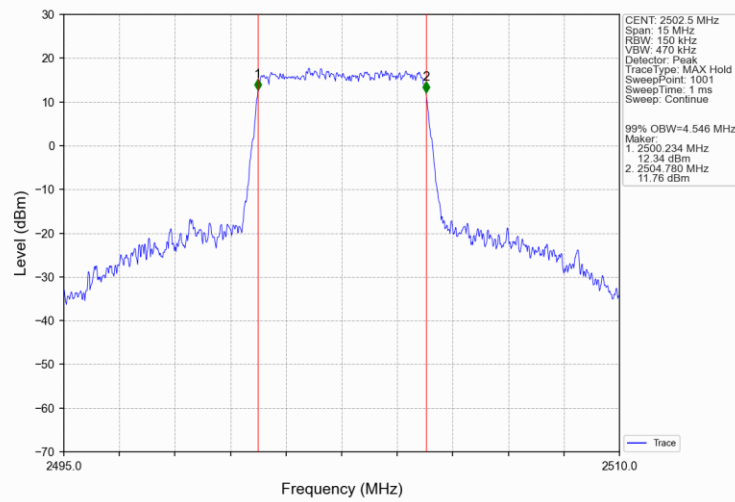
4.2.1 Band7_OBW



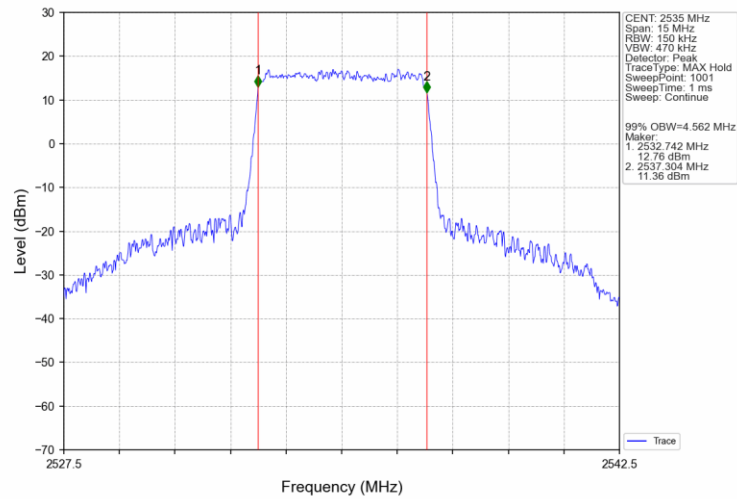
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



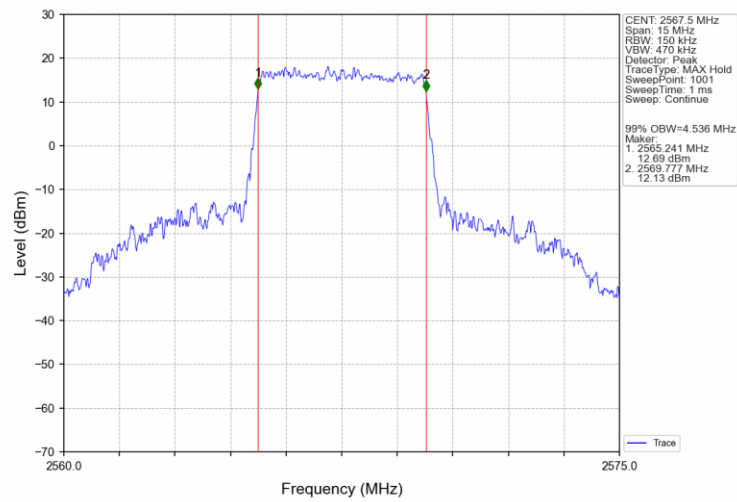
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTV



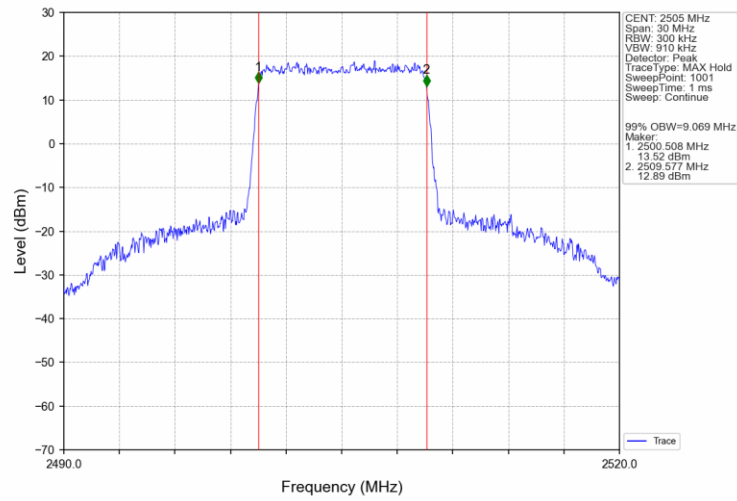
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTV



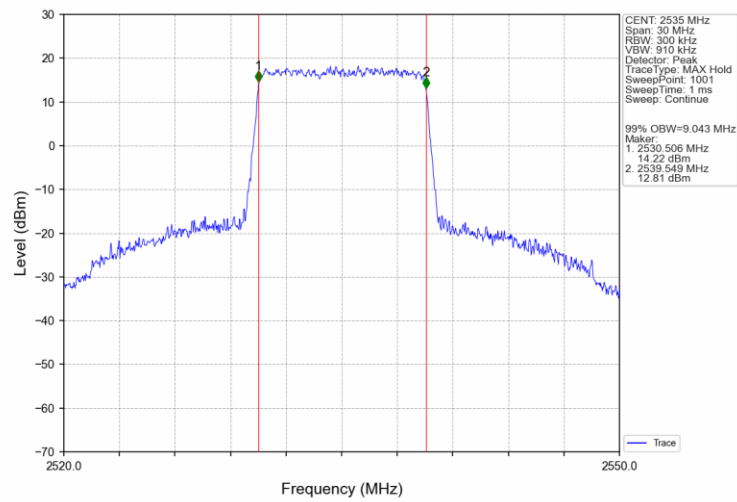
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTV



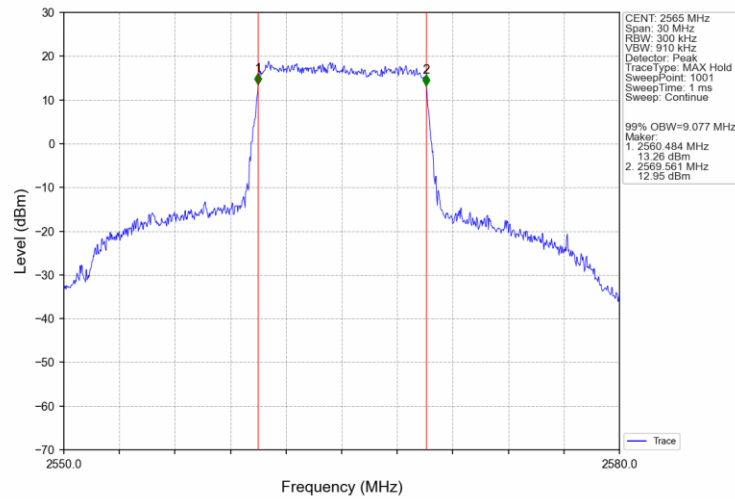
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTN



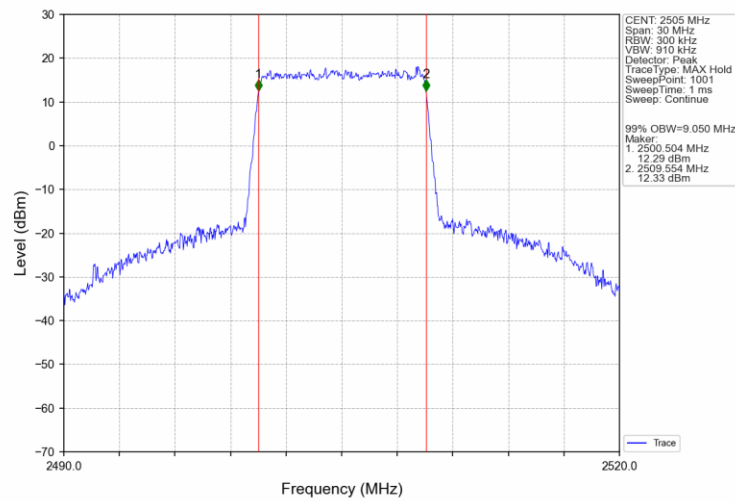
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTN



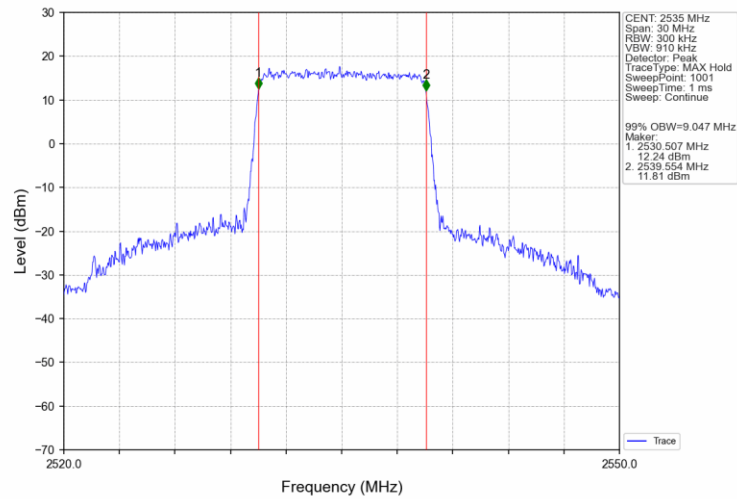
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV



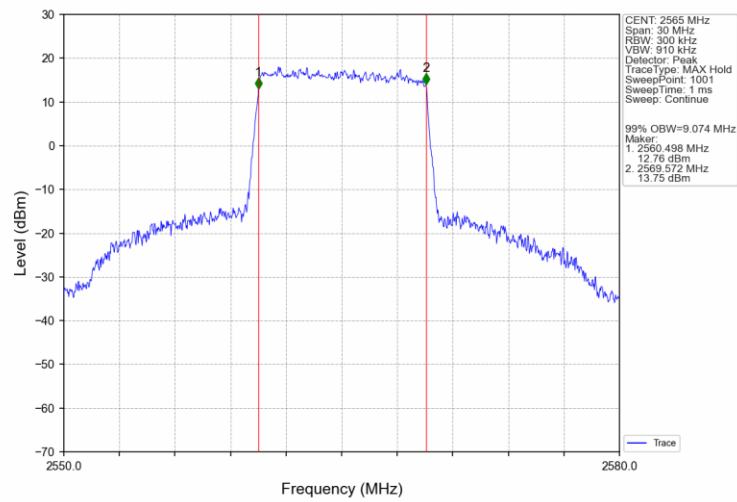
Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTNV



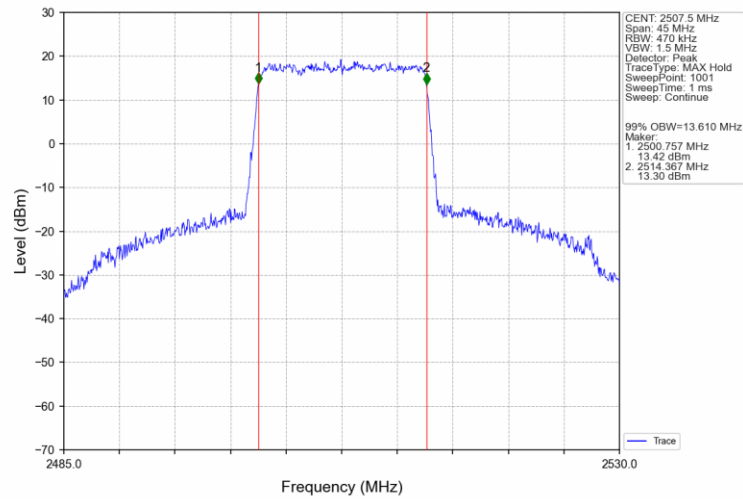
Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTNV



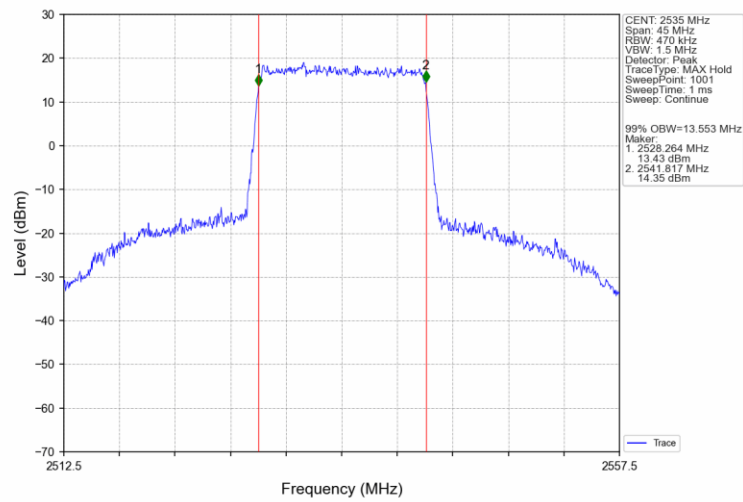
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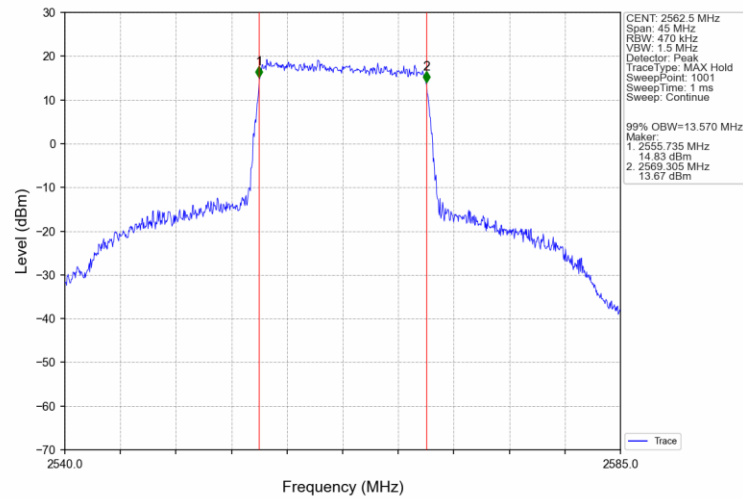
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



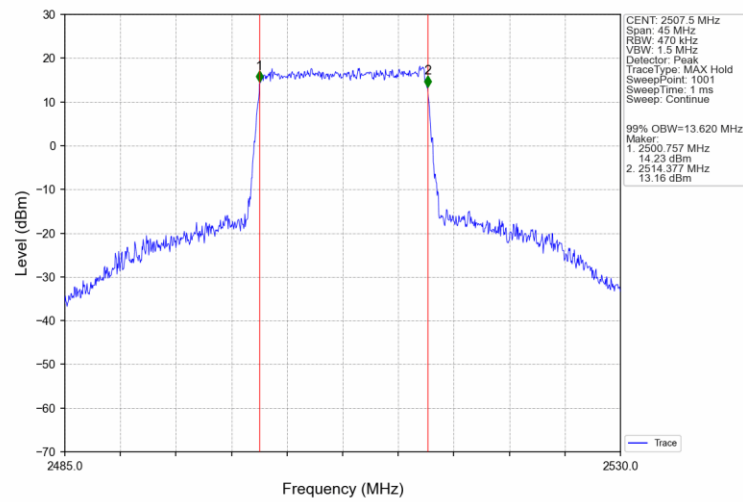
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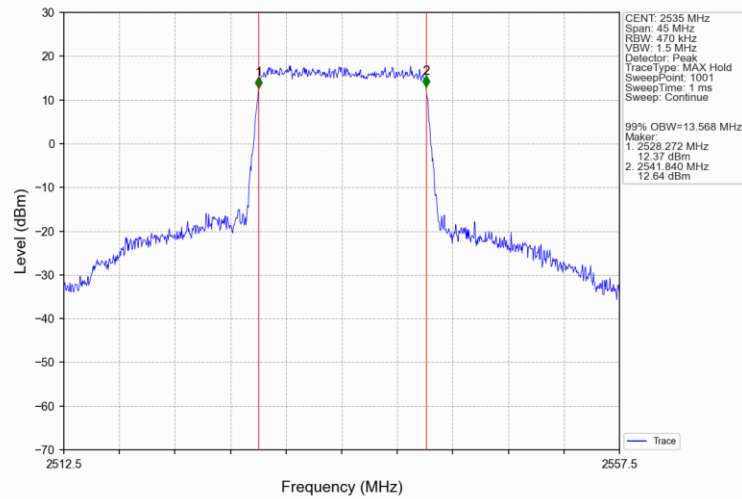
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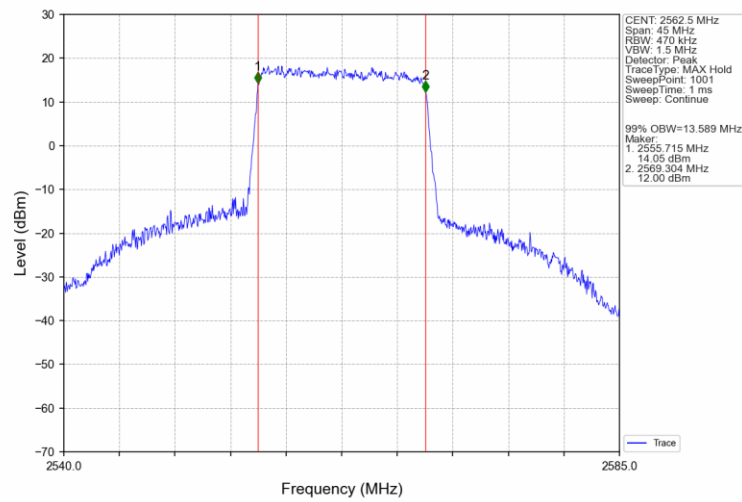
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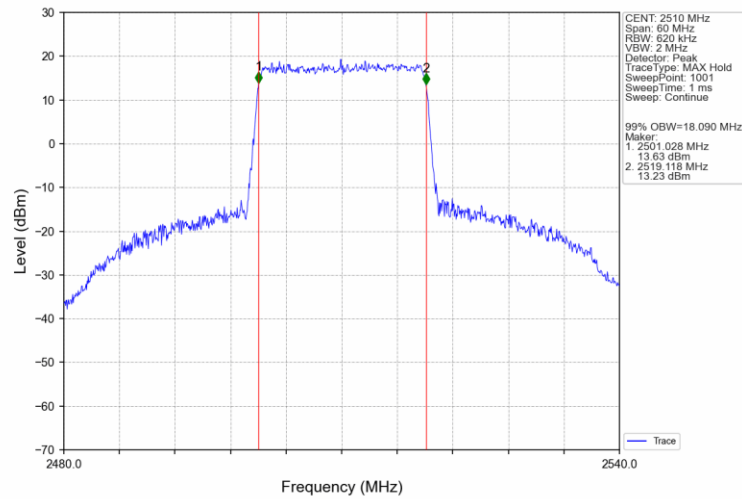
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



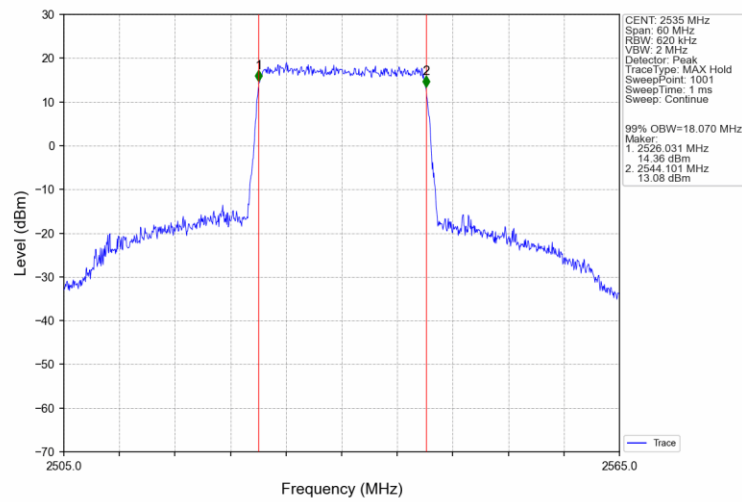
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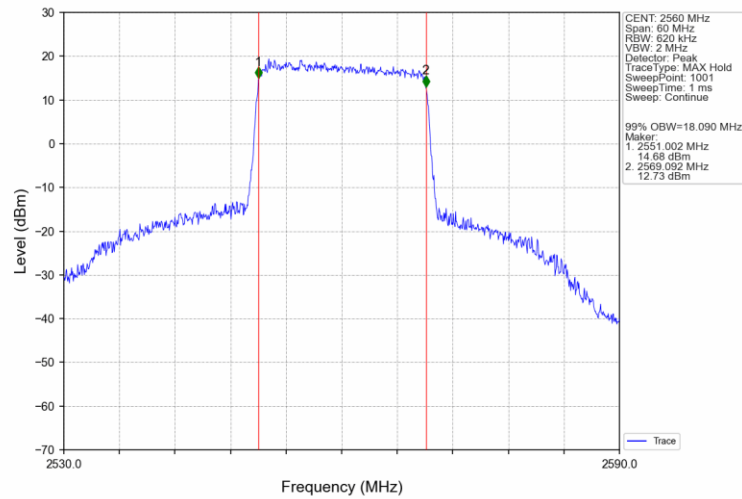
Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTV



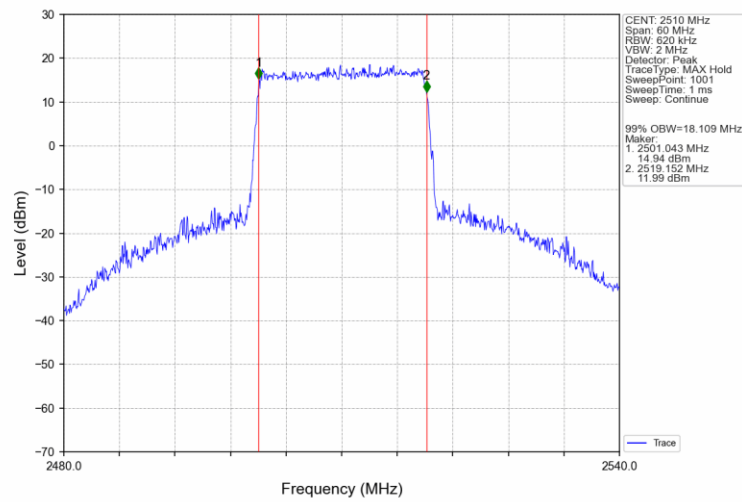
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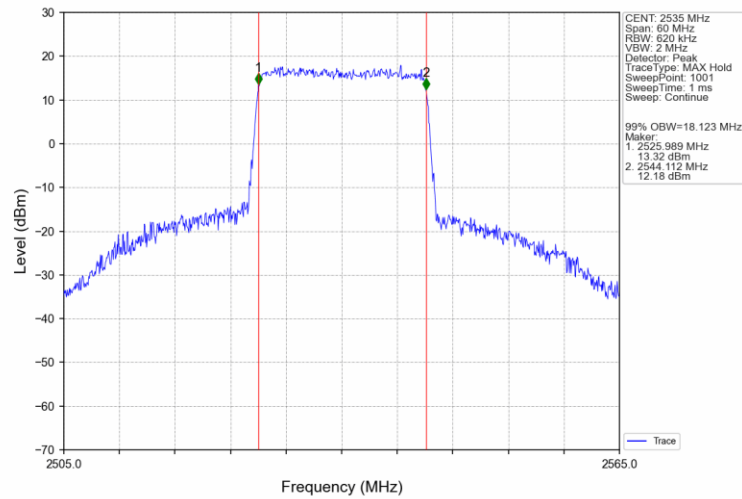
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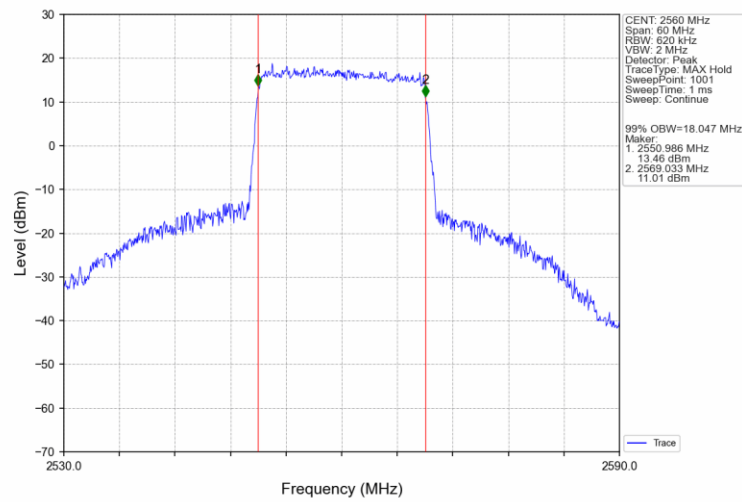
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



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

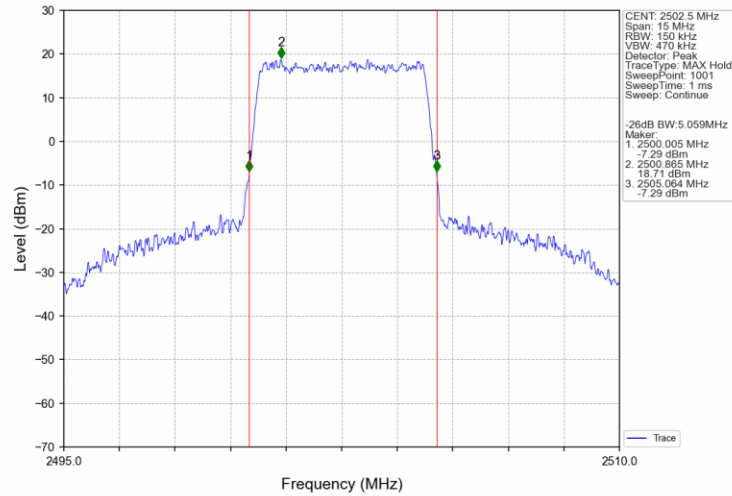


Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTNV

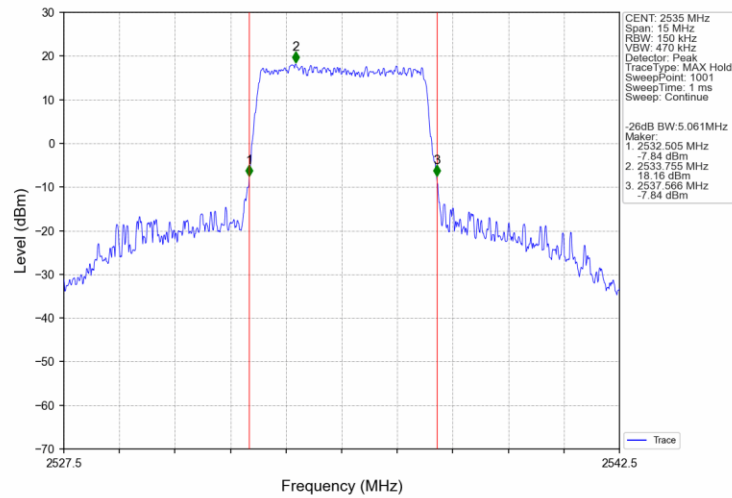


4.2.2 Band7_XDB

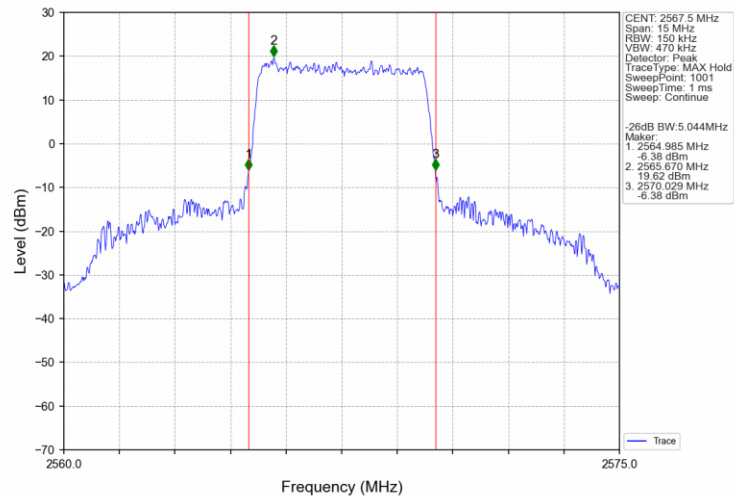
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTNV



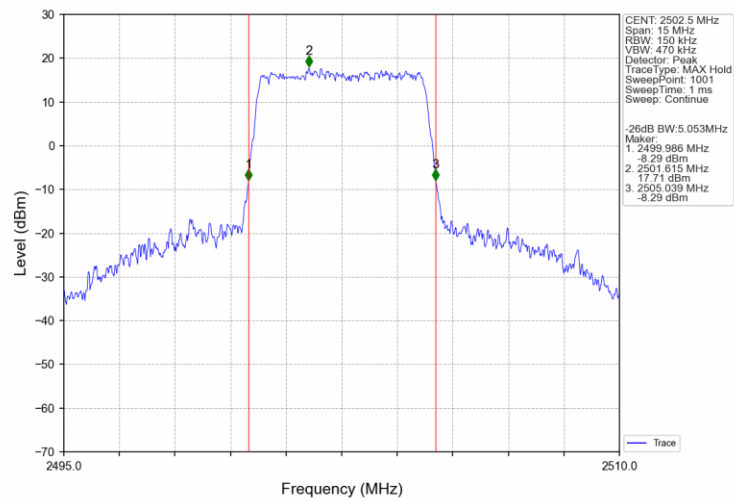
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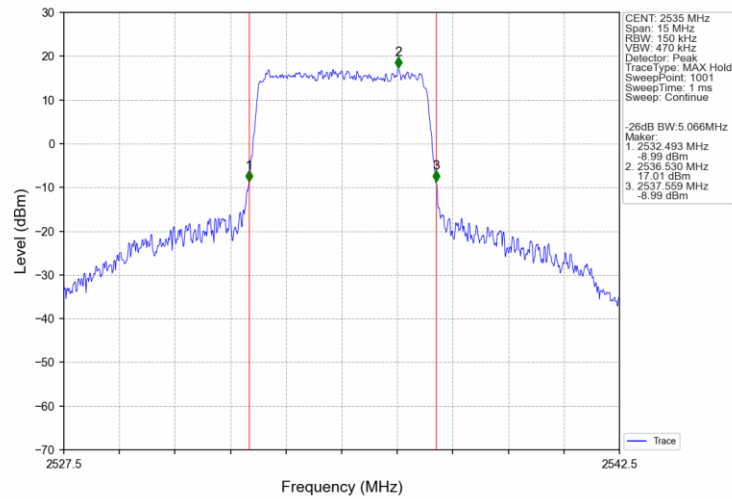
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



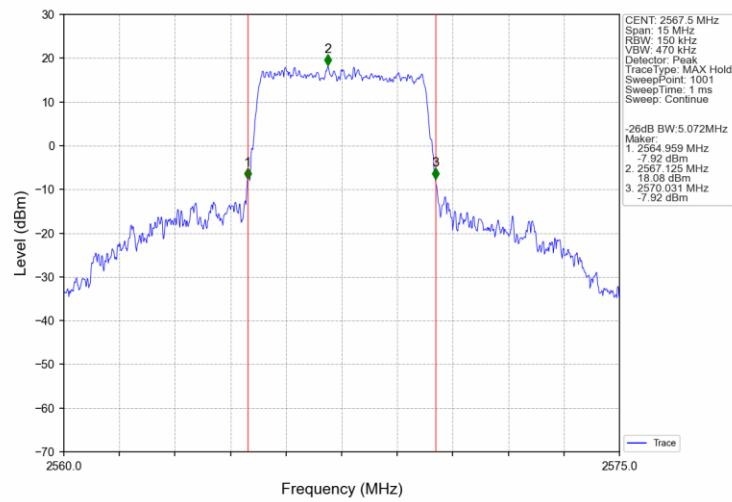
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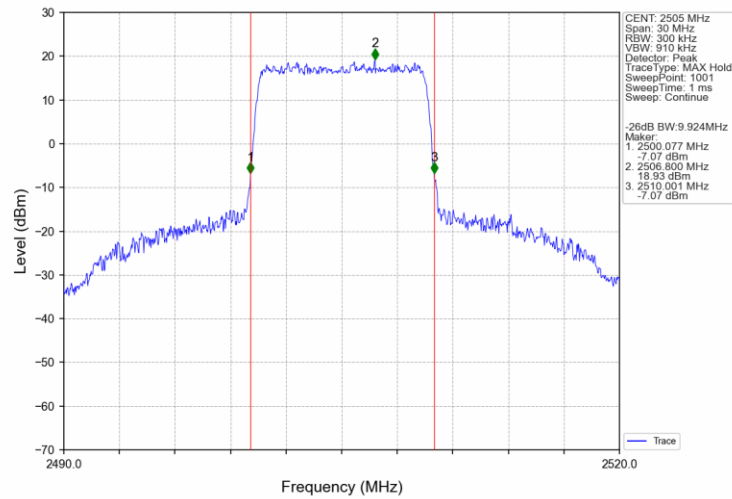
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTV



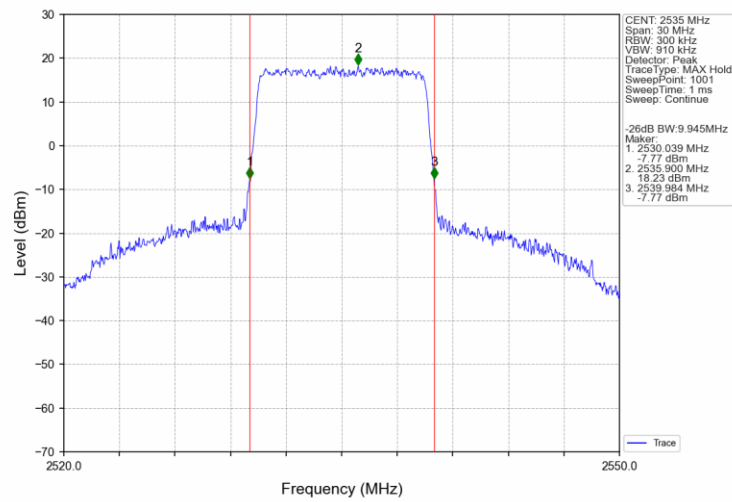
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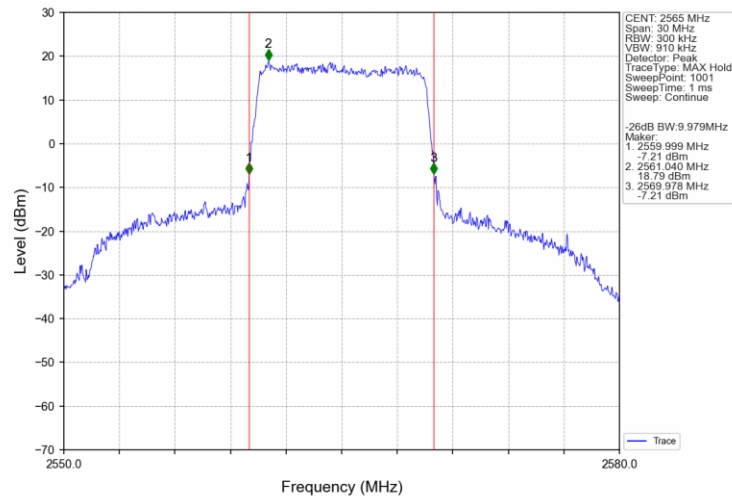
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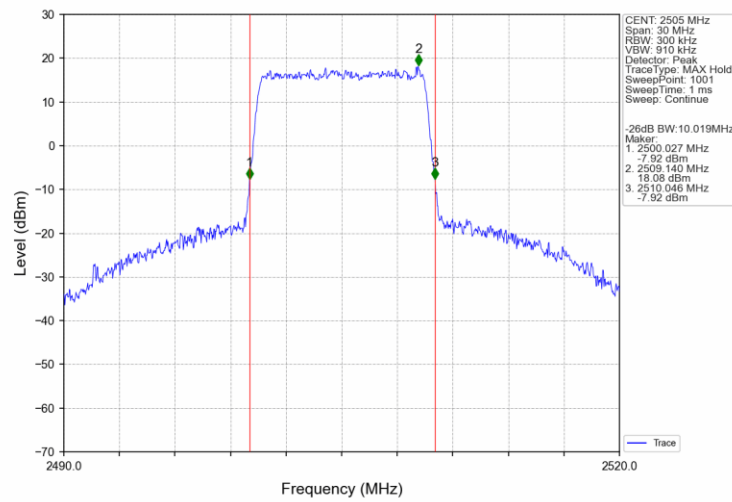
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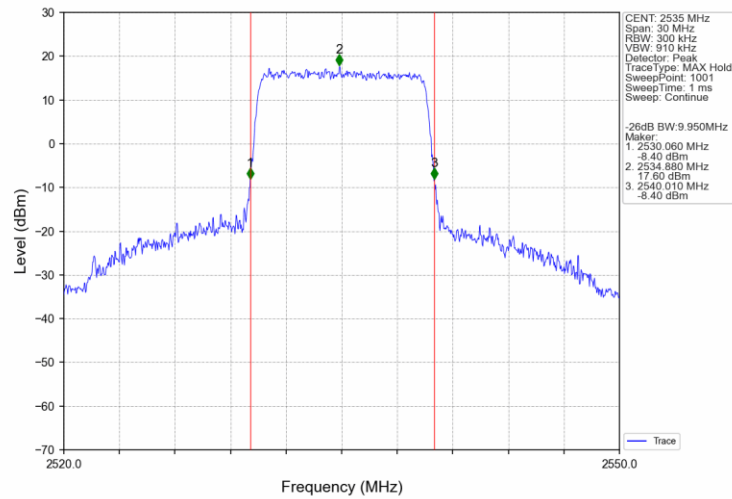
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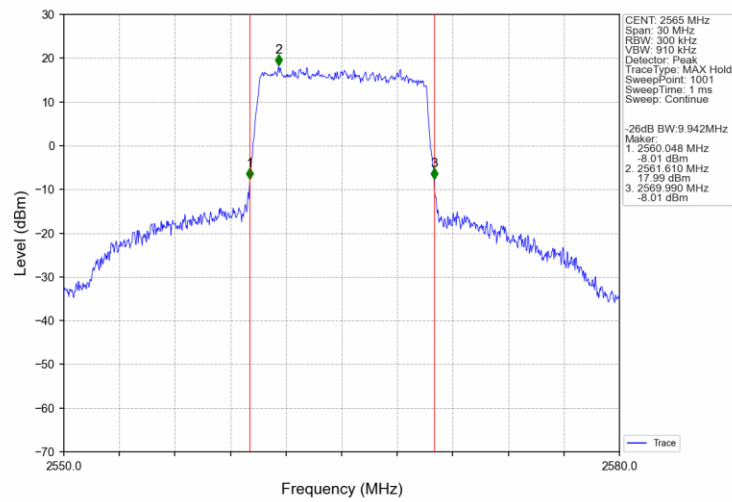
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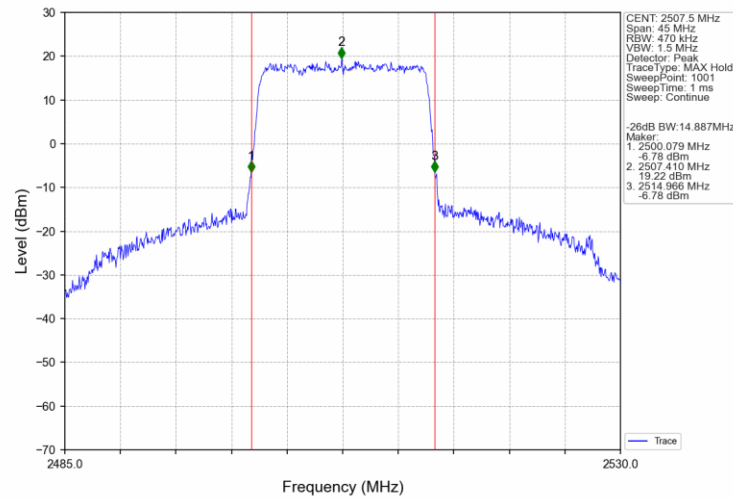
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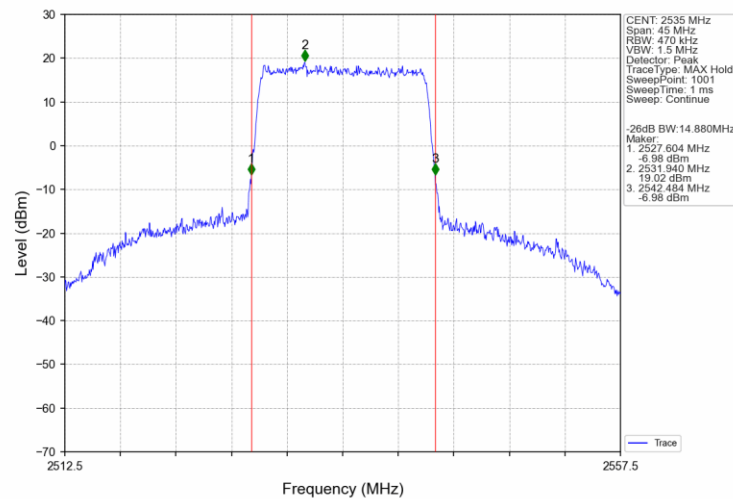
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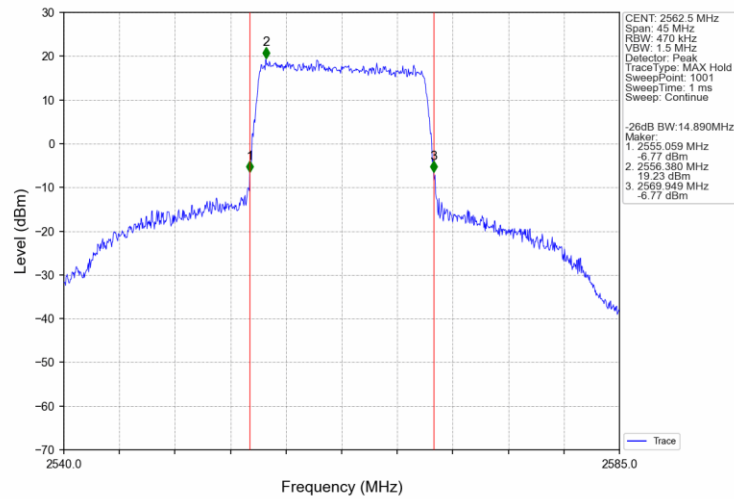
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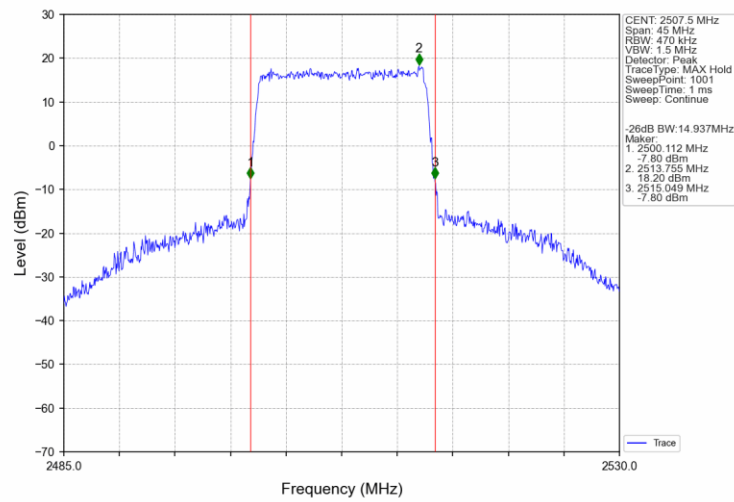
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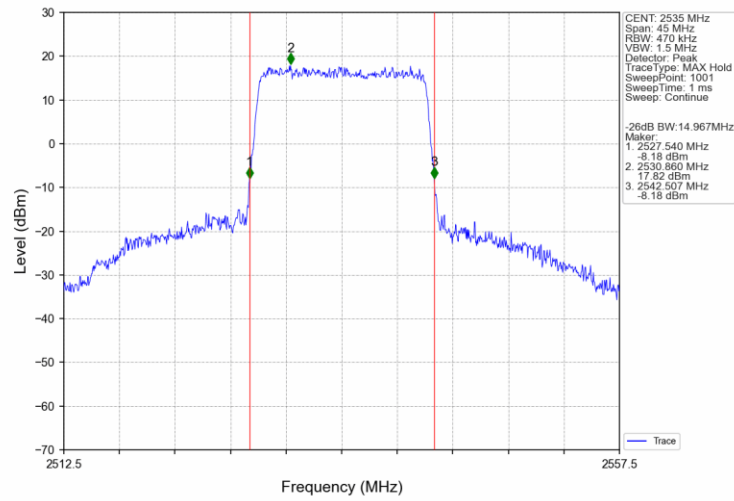
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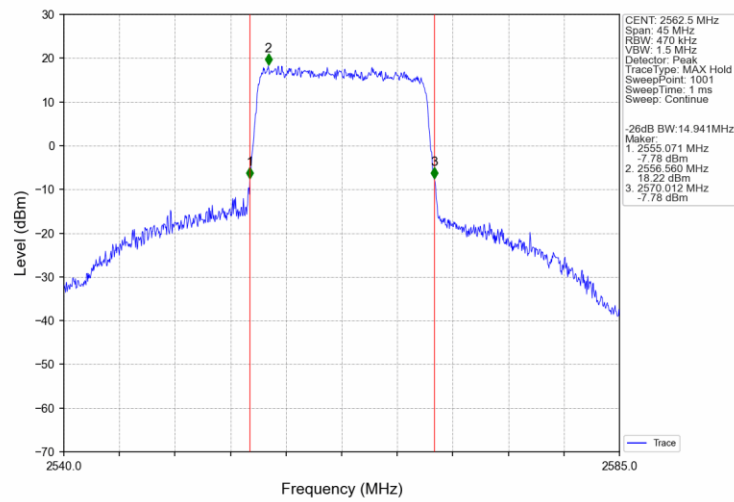
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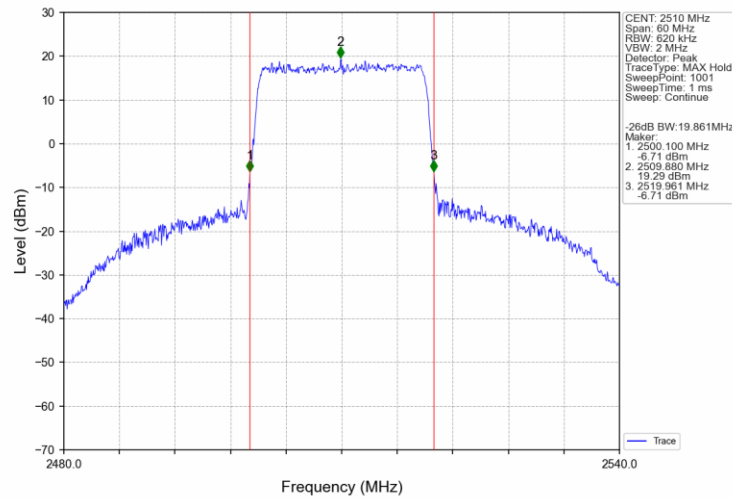
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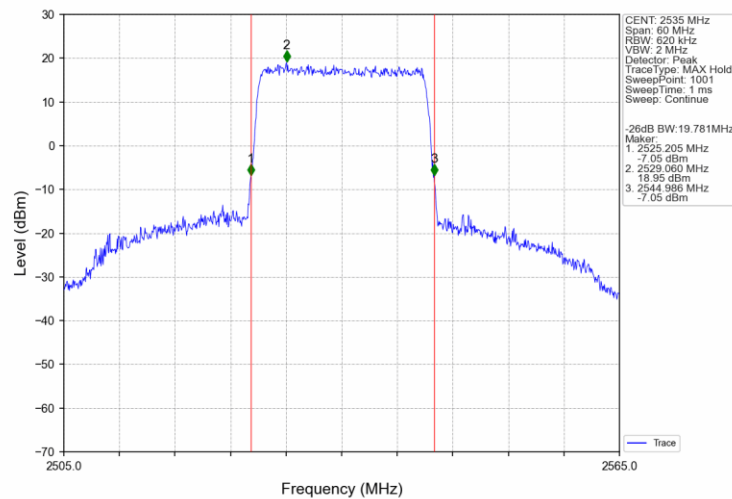
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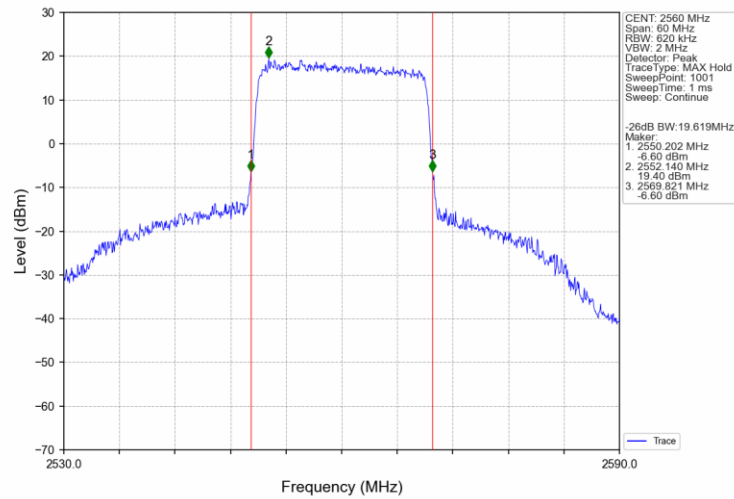
Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTNV



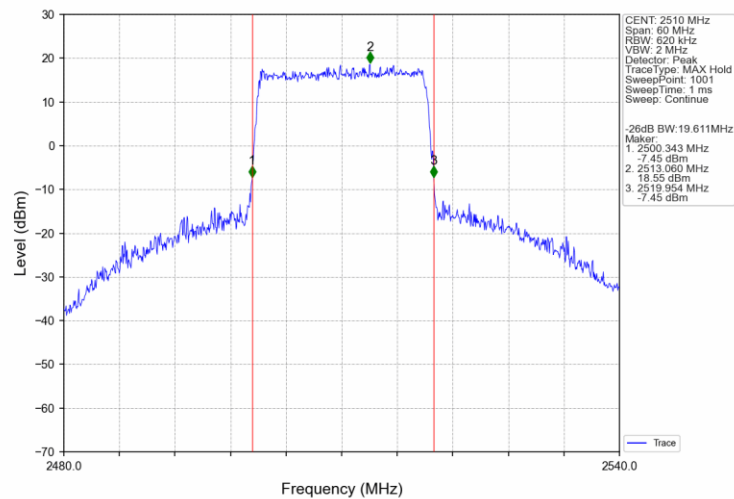
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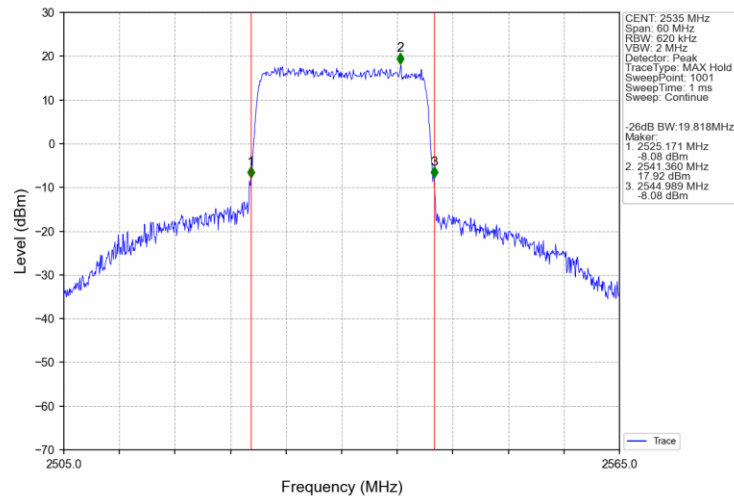
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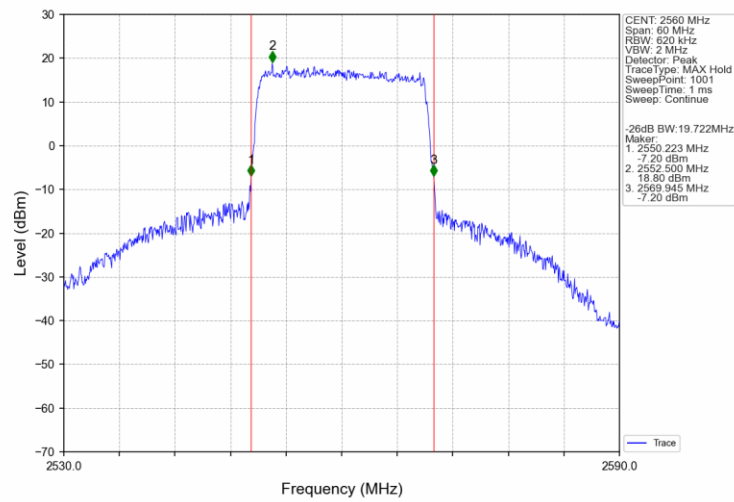
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTV



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	5.26	<=13	Pass
	2535	25	0	5.27	<=13	Pass
	2567.5	25	0	5.03	<=13	Pass
16QAM	2502.5	25	0	5.97	<=13	Pass
	2535	25	0	5.95	<=13	Pass
	2567.5	25	0	5.69	<=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	5.16	<=13	Pass
	2535	50	0	5.20	<=13	Pass
	2565	50	0	5.02	<=13	Pass
16QAM	2505	50	0	5.90	<=13	Pass
	2535	50	0	5.96	<=13	Pass
	2565	50	0	5.71	<=13	Pass

5.1.3 B7_15MHz

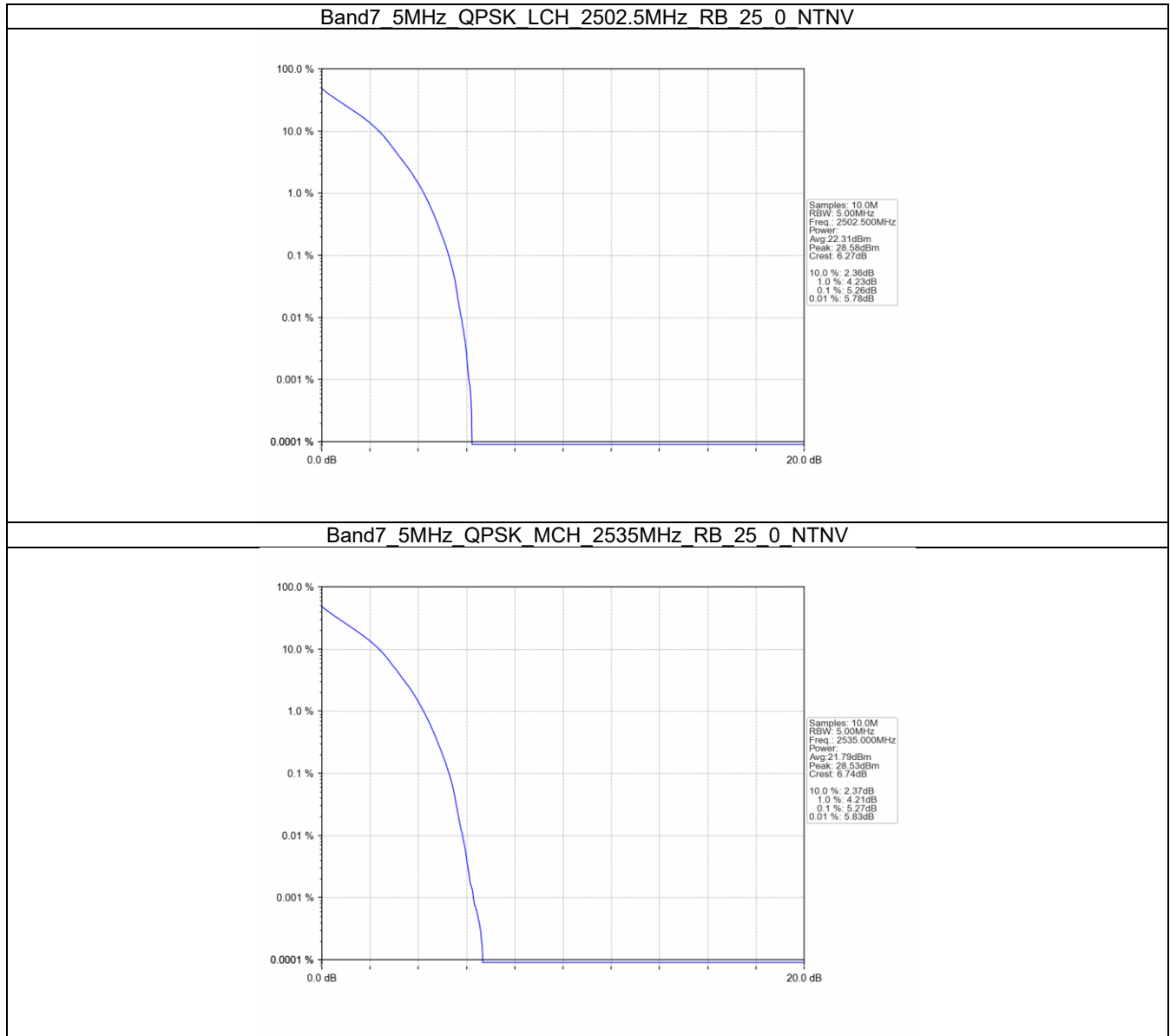
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.03	<=13	Pass
	2535	75	0	5.06	<=13	Pass
	2562.5	75	0	5.00	<=13	Pass
16QAM	2507.5	75	0	6.00	<=13	Pass
	2535	75	0	6.02	<=13	Pass
	2562.5	75	0	5.92	<=13	Pass

5.1.4 B7_20MHz

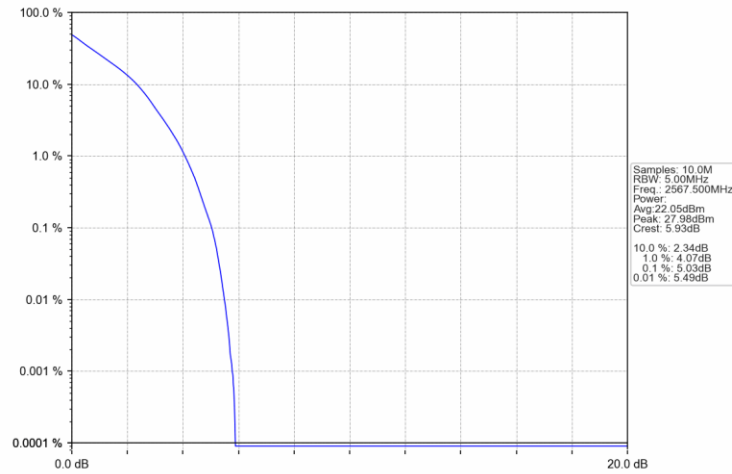
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.65	<=13	Pass
	2535	100	0	5.66	<=13	Pass
	2560	100	0	5.60	<=13	Pass
16QAM	2510	100	0	6.51	<=13	Pass
	2535	100	0	6.53	<=13	Pass
	2560	100	0	6.51	<=13	Pass

5.2 Test Graph

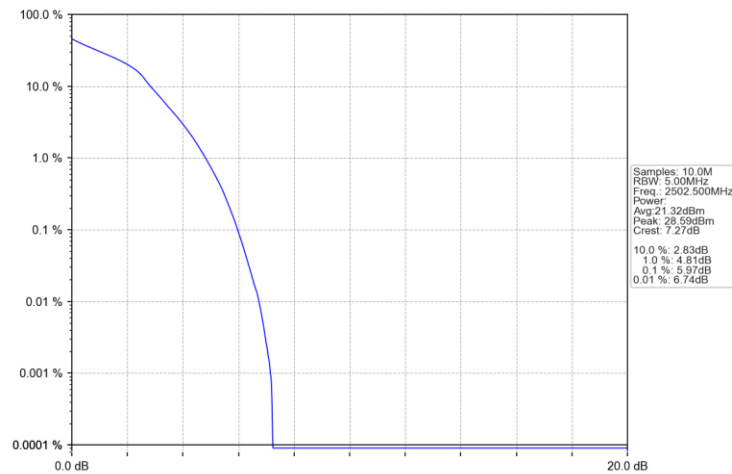
5.2.1 B7_5MHz



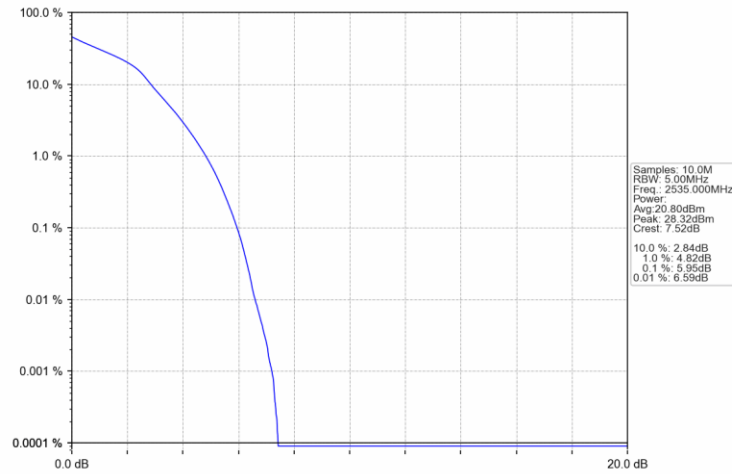
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTNV



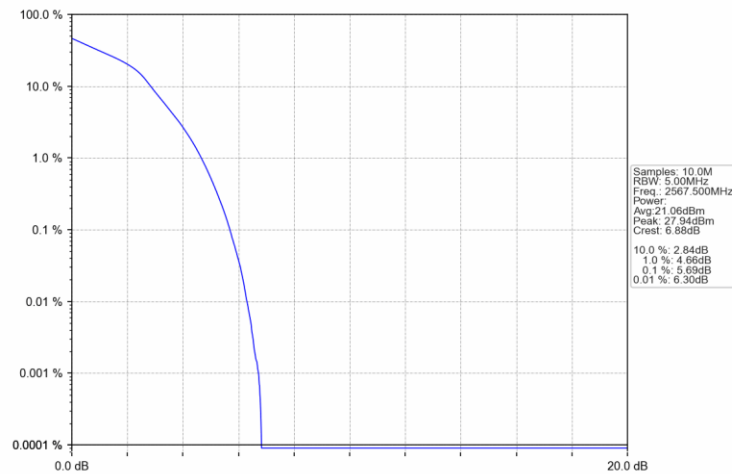
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTNV



Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTN

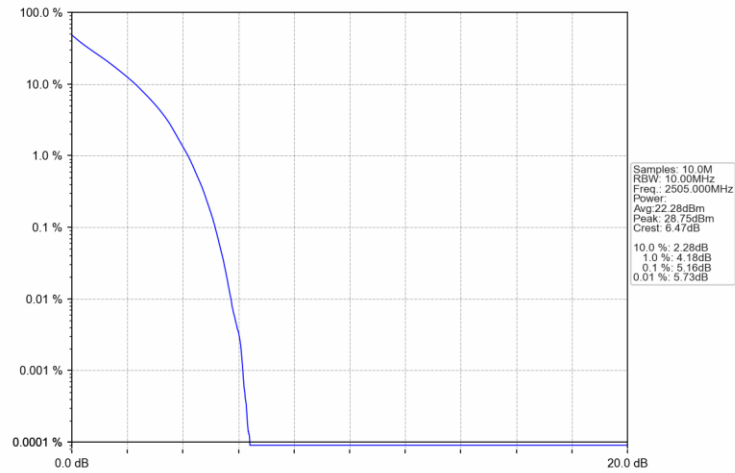


Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTN

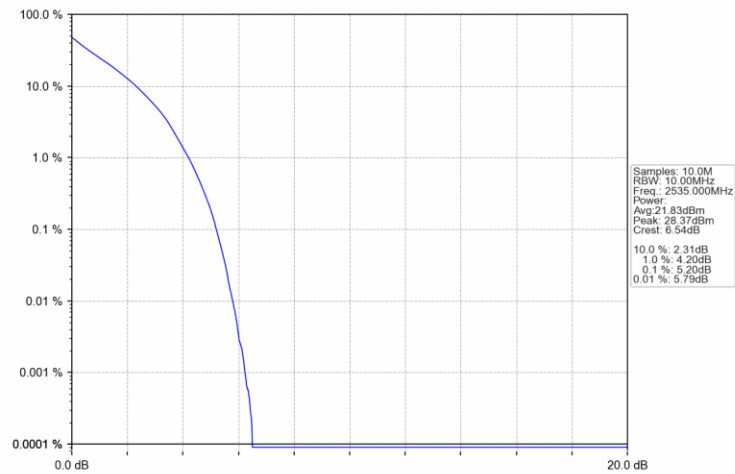


5.2.2 B7_10MHz

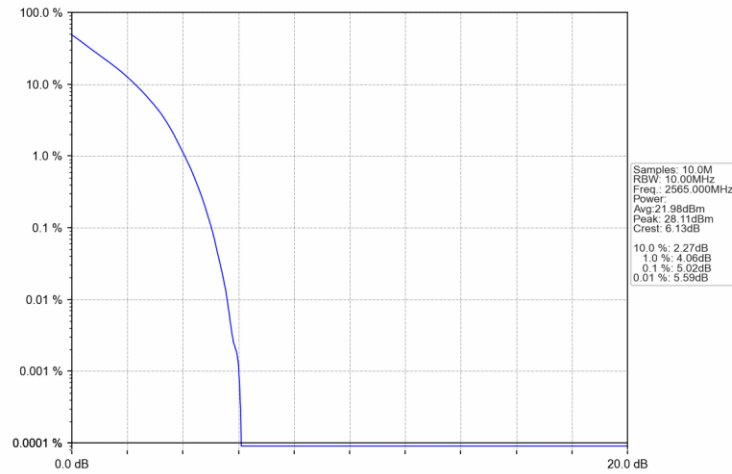
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



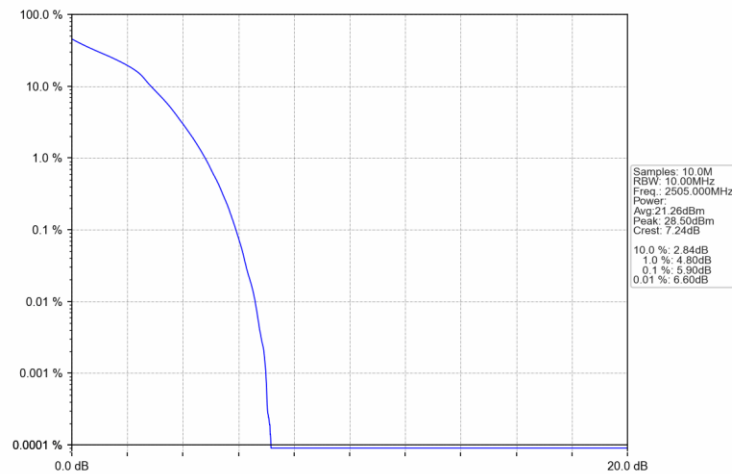
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



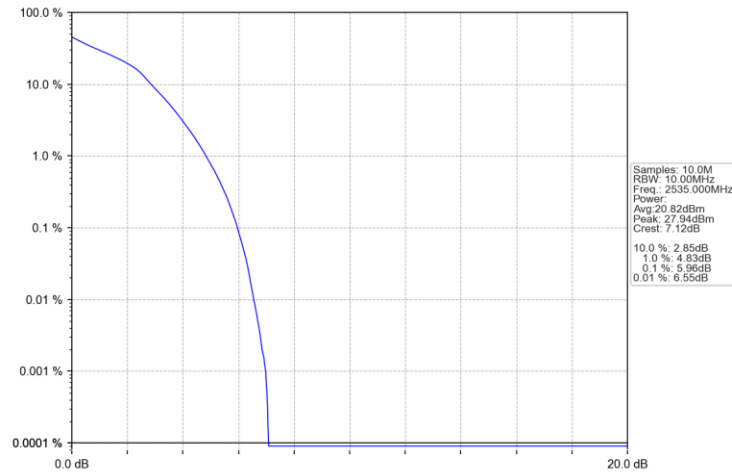
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN



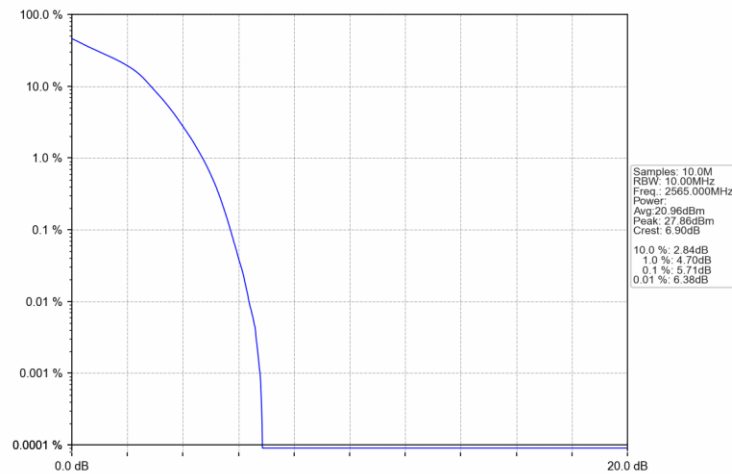
Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTN



Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTNV

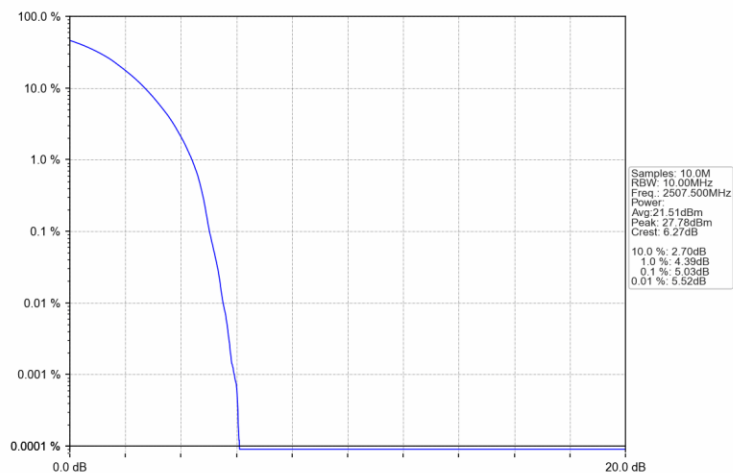


Band7 10MHz 16QAM HCH 2565MHz RB 50 0 NTNV

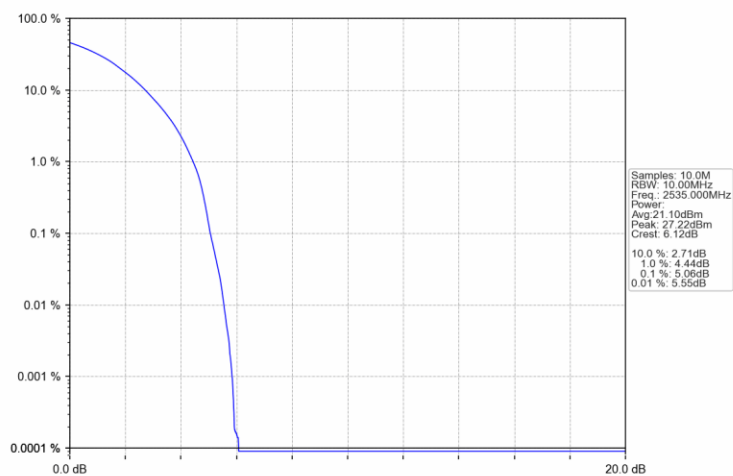


5.2.3 B7_15MHz

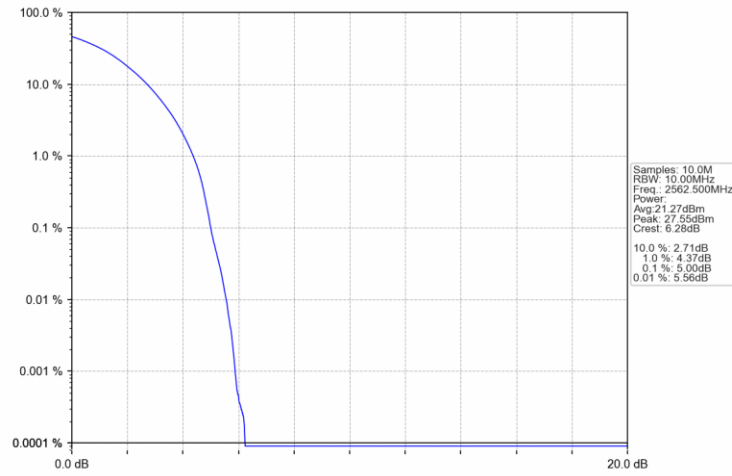
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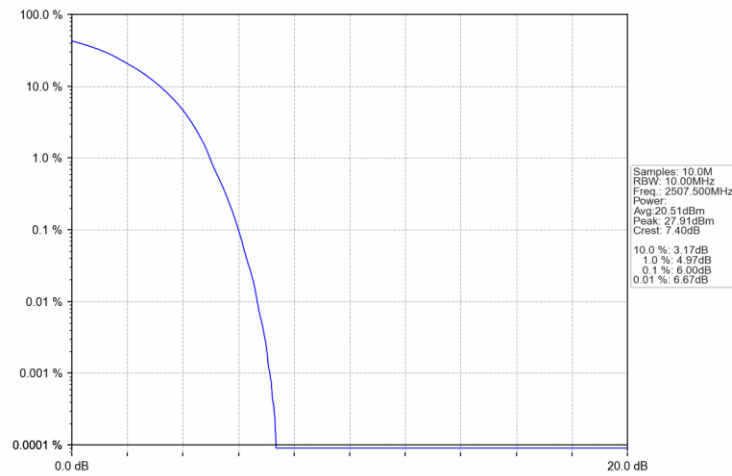
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



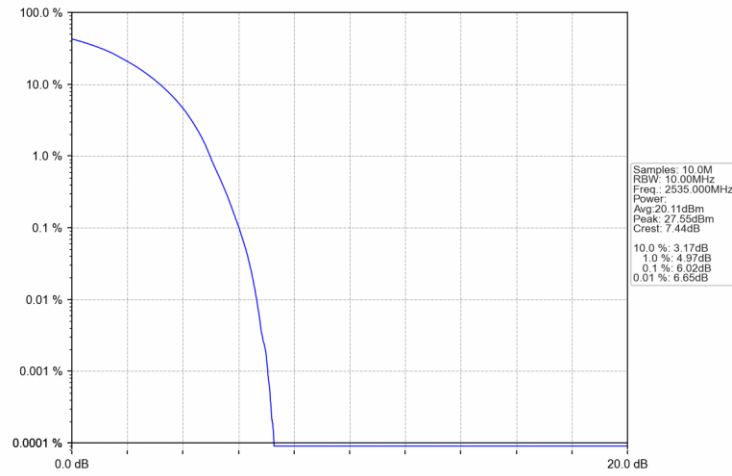
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV

