

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	22.04	2.10	24.14	<=33.01	Pass
			13	21.97	2.10	24.07	<=33.01	Pass
			24	21.79	2.10	23.89	<=33.01	Pass
		12	0	20.99	2.10	23.09	<=33.01	Pass
			6	21.01	2.10	23.11	<=33.01	Pass
			13	21.06	2.10	23.16	<=33.01	Pass
		25	0	21.03	2.10	23.13	<=33.01	Pass
	2535	1	0	21.80	2.10	23.90	<=33.01	Pass
			13	21.78	2.10	23.88	<=33.01	Pass
			24	21.84	2.10	23.94	<=33.01	Pass
		12	0	21.35	2.10	23.45	<=33.01	Pass
			6	21.34	2.10	23.44	<=33.01	Pass
			13	21.34	2.10	23.44	<=33.01	Pass
		25	0	21.34	2.10	23.44	<=33.01	Pass
	2567.5	1	0	22.07	2.10	24.17	<=33.01	Pass
			13	22.11	2.10	24.21	<=33.01	Pass
			24	22.13	2.10	24.23	<=33.01	Pass
		12	0	21.42	2.10	23.52	<=33.01	Pass
			6	21.41	2.10	23.51	<=33.01	Pass
			13	21.41	2.10	23.51	<=33.01	Pass
		25	0	21.42	2.10	23.52	<=33.01	Pass
16QAM	2502.5	1	0	20.61	2.10	22.71	<=33.01	Pass
			13	20.63	2.10	22.73	<=33.01	Pass
			24	20.67	2.10	22.77	<=33.01	Pass
		12	0	19.98	2.10	22.08	<=33.01	Pass
			6	19.99	2.10	22.09	<=33.01	Pass
			13	20.09	2.10	22.19	<=33.01	Pass
		25	0	20.07	2.10	22.17	<=33.01	Pass
	2535	1	0	21.11	2.10	23.21	<=33.01	Pass
			13	21.05	2.10	23.15	<=33.01	Pass
			24	21.05	2.10	23.15	<=33.01	Pass
		12	0	20.38	2.10	22.48	<=33.01	Pass
			6	20.35	2.10	22.45	<=33.01	Pass
			13	20.37	2.10	22.47	<=33.01	Pass
		25	0	20.38	2.10	22.48	<=33.01	Pass
	2567.5	1	0	20.74	2.10	22.84	<=33.01	Pass
			13	20.76	2.10	22.86	<=33.01	Pass
			24	20.78	2.10	22.88	<=33.01	Pass
		12	0	20.45	2.10	22.55	<=33.01	Pass
			6	20.41	2.10	22.51	<=33.01	Pass
			13	20.43	2.10	22.53	<=33.01	Pass
		25	0	20.49	2.10	22.59	<=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	21.44	2.10	23.54	<=33.01	Pass
			25	21.52	2.10	23.62	<=33.01	Pass
			49	21.57	2.10	23.67	<=33.01	Pass
		25	0	20.96	2.10	23.06	<=33.01	Pass
			13	21.05	2.10	23.15	<=33.01	Pass
			25	21.13	2.10	23.23	<=33.01	Pass
		50	0	21.03	2.10	23.13	<=33.01	Pass
	2535	1	0	21.69	2.10	23.79	<=33.01	Pass
			25	21.84	2.10	23.94	<=33.01	Pass
			49	21.79	2.10	23.89	<=33.01	Pass
		25	0	21.25	2.10	23.35	<=33.01	Pass
			13	21.36	2.10	23.46	<=33.01	Pass
			25	21.42	2.10	23.52	<=33.01	Pass
		50	0	21.41	2.10	23.51	<=33.01	Pass
	2565	1	0	21.84	2.10	23.94	<=33.01	Pass
			25	21.93	2.10	24.03	<=33.01	Pass
			49	21.95	2.10	24.05	<=33.01	Pass
		25	0	21.45	2.10	23.55	<=33.01	Pass
			13	21.38	2.10	23.48	<=33.01	Pass
			25	21.45	2.10	23.55	<=33.01	Pass
		50	0	21.48	2.10	23.58	<=33.01	Pass
16QAM	2505	1	0	20.47	2.10	22.57	<=33.01	Pass
			25	20.56	2.10	22.66	<=33.01	Pass
			49	20.56	2.10	22.66	<=33.01	Pass
		25	0	20.04	2.10	22.14	<=33.01	Pass
			13	20.10	2.10	22.20	<=33.01	Pass
			25	20.18	2.10	22.28	<=33.01	Pass
		50	0	20.07	2.10	22.17	<=33.01	Pass
	2535	1	0	20.92	2.10	23.02	<=33.01	Pass
			25	21.06	2.10	23.16	<=33.01	Pass
			49	21.05	2.10	23.15	<=33.01	Pass
		25	0	20.34	2.10	22.44	<=33.01	Pass
			13	20.40	2.10	22.50	<=33.01	Pass
			25	20.46	2.10	22.56	<=33.01	Pass
		50	0	20.40	2.10	22.50	<=33.01	Pass
	2565	1	0	21.32	2.10	23.42	<=33.01	Pass
			25	21.40	2.10	23.50	<=33.01	Pass
			49	21.38	2.10	23.48	<=33.01	Pass
		25	0	20.50	2.10	22.60	<=33.01	Pass
			13	20.49	2.10	22.59	<=33.01	Pass
			25	20.53	2.10	22.63	<=33.01	Pass
		50	0	20.44	2.10	22.54	<=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	21.32	2.10	23.42	<=33.01	Pass
			38	21.45	2.10	23.55	<=33.01	Pass
			74	21.48	2.10	23.58	<=33.01	Pass
		36	0	20.95	2.10	23.05	<=33.01	Pass
			18	20.98	2.10	23.08	<=33.01	Pass
			39	21.09	2.10	23.19	<=33.01	Pass
		75	0	21.01	2.10	23.11	<=33.01	Pass
	2535	1	0	21.63	2.10	23.73	<=33.01	Pass
			38	21.81	2.10	23.91	<=33.01	Pass

16QAM	2562.5	36	74	21.77	2.10	23.87	<=33.01	Pass
			0	21.24	2.10	23.34	<=33.01	Pass
			18	21.32	2.10	23.42	<=33.01	Pass
			39	21.34	2.10	23.44	<=33.01	Pass
		75	0	21.30	2.10	23.40	<=33.01	Pass
		1	0	21.75	2.10	23.85	<=33.01	Pass
			38	21.93	2.10	24.03	<=33.01	Pass
			74	21.91	2.10	24.01	<=33.01	Pass
			0	21.36	2.10	23.46	<=33.01	Pass
			18	21.38	2.10	23.48	<=33.01	Pass
			39	21.44	2.10	23.54	<=33.01	Pass
			0	21.42	2.10	23.52	<=33.01	Pass
			0	20.80	2.10	22.90	<=33.01	Pass
			38	20.94	2.10	23.04	<=33.01	Pass
			74	20.90	2.10	23.00	<=33.01	Pass
	2507.5	36	0	19.94	2.10	22.04	<=33.01	Pass
			18	20.02	2.10	22.12	<=33.01	Pass
			39	20.04	2.10	22.14	<=33.01	Pass
			0	19.98	2.10	22.08	<=33.01	Pass
		1	0	20.83	2.10	22.93	<=33.01	Pass
			38	21.07	2.10	23.17	<=33.01	Pass
			74	21.00	2.10	23.10	<=33.01	Pass
			0	20.30	2.10	22.40	<=33.01	Pass
			18	20.37	2.10	22.47	<=33.01	Pass
			39	20.37	2.10	22.47	<=33.01	Pass
			0	20.32	2.10	22.42	<=33.01	Pass
			0	21.24	2.10	23.34	<=33.01	Pass
			38	21.41	2.10	23.51	<=33.01	Pass
			74	21.35	2.10	23.45	<=33.01	Pass
			0	20.41	2.10	22.51	<=33.01	Pass
			18	20.44	2.10	22.54	<=33.01	Pass
			39	20.43	2.10	22.53	<=33.01	Pass
		75	0	20.46	2.10	22.56	<=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	21.30	2.10	23.40	<=33.01	Pass
			50	21.48	2.10	23.58	<=33.01	Pass
			99	21.53	2.10	23.63	<=33.01	Pass
		50	0	20.86	2.10	22.96	<=33.01	Pass
			25	21.01	2.10	23.11	<=33.01	Pass
			50	21.07	2.10	23.17	<=33.01	Pass
		100	0	20.96	2.10	23.06	<=33.01	Pass
		1	0	21.54	2.10	23.64	<=33.01	Pass
			50	21.80	2.10	23.90	<=33.01	Pass
			99	21.72	2.10	23.82	<=33.01	Pass
			0	21.31	2.10	23.41	<=33.01	Pass
			25	21.39	2.10	23.49	<=33.01	Pass
			50	21.48	2.10	23.58	<=33.01	Pass
	2535	50	0	21.38	2.10	23.48	<=33.01	Pass
			25	21.64	2.10	23.74	<=33.01	Pass
			50	21.86	2.10	23.96	<=33.01	Pass
		1	99	21.80	2.10	23.90	<=33.01	Pass
			0	21.51	2.10	23.61	<=33.01	Pass
			0	21.51	2.10	23.61	<=33.01	Pass



16QAM	2510	100	25	21.40	2.10	23.50	<=33.01	Pass
			50	21.46	2.10	23.56	<=33.01	Pass
			0	21.46	2.10	23.56	<=33.01	Pass
		1	0	20.94	2.10	23.04	<=33.01	Pass
			50	21.13	2.10	23.23	<=33.01	Pass
			99	21.16	2.10	23.26	<=33.01	Pass
		50	0	19.83	2.10	21.93	<=33.01	Pass
			25	20.05	2.10	22.15	<=33.01	Pass
			50	20.04	2.10	22.14	<=33.01	Pass
		100	0	19.94	2.10	22.04	<=33.01	Pass
	2535	1	0	20.79	2.10	22.89	<=33.01	Pass
			50	21.07	2.10	23.17	<=33.01	Pass
			99	21.02	2.10	23.12	<=33.01	Pass
		50	0	20.29	2.10	22.39	<=33.01	Pass
			25	20.40	2.10	22.50	<=33.01	Pass
			50	20.45	2.10	22.55	<=33.01	Pass
		100	0	20.35	2.10	22.45	<=33.01	Pass
	2560	1	0	20.94	2.10	23.04	<=33.01	Pass
			50	21.17	2.10	23.27	<=33.01	Pass
			99	21.10	2.10	23.20	<=33.01	Pass
		50	0	20.48	2.10	22.58	<=33.01	Pass
			25	20.41	2.10	22.51	<=33.01	Pass
			50	20.41	2.10	22.51	<=33.01	Pass
		100	0	20.46	2.10	22.56	<=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	3.27	3.490	0.0014	-2.5 to 2.5	Pass
					3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
					4.43	0.701	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-5.751	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	5.093	0.0020	-2.5 to 2.5	Pass
				-10	3.85	13.332	0.0053	-2.5 to 2.5	Pass
				0	3.85	-2.103	-0.0008	-2.5 to 2.5	Pass
				10	3.85	4.449	0.0018	-2.5 to 2.5	Pass
				30	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass
				40	3.85	3.834	0.0015	-2.5 to 2.5	Pass
				50	3.85	6.351	0.0025	-2.5 to 2.5	Pass
	2535	25	0	20	3.27	5.736	0.0023	-2.5 to 2.5	Pass
					3.85	1.702	0.0007	-2.5 to 2.5	Pass
					4.43	-0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-3.161	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-2.375	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0023	-2.5 to 2.5	Pass
				0	3.85	4.721	0.0019	-2.5 to 2.5	Pass
				10	3.85	-5.307	-0.0021	-2.5 to 2.5	Pass
				30	3.85	0.372	0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.416	-0.0006	-2.5 to 2.5	Pass

16QAM	2567.5	25	0	50	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				20	3.27	-4.163	-0.0016	-2.5 to 2.5	Pass
					3.85	-13.919	-0.0054	-2.5 to 2.5	Pass
					4.43	-3.819	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-8.998	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-6.809	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				0	3.85	-4.091	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-6.452	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-6.981	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-9.255	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
	2502.5	25	0	20	3.27	-0.558	-0.0002	-2.5 to 2.5	Pass
					3.85	5.879	0.0023	-2.5 to 2.5	Pass
					4.43	-4.320	-0.0017	-2.5 to 2.5	Pass
					3.85	5.379	0.0021	-2.5 to 2.5	Pass
				-30	3.85	3.247	0.0013	-2.5 to 2.5	Pass
				-20	3.85	-5.779	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-5.779	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass
				10	3.85	2.918	0.0012	-2.5 to 2.5	Pass
				30	3.85	4.206	0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.259	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
16QAM	2535	25	0	20	3.27	4.606	0.0018	-2.5 to 2.5	Pass
					3.85	1.130	0.0004	-2.5 to 2.5	Pass
					4.43	-2.232	-0.0009	-2.5 to 2.5	Pass
					3.85	-5.035	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.896	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-7.896	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-3.934	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-1.645	-0.0006	-2.5 to 2.5	Pass
				10	3.85	0.100	0.0000	-2.5 to 2.5	Pass
				30	3.85	-2.961	-0.0012	-2.5 to 2.5	Pass
				40	3.85	4.907	0.0019	-2.5 to 2.5	Pass
				50	3.85	-5.021	-0.0020	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.27	-6.995	-0.0027	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0005	-2.5 to 2.5	Pass
					4.43	-5.579	-0.0022	-2.5 to 2.5	Pass
					3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.216	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				10	3.85	2.747	0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.333	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-6.852	-0.0027	-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	3.27	-3.276	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.658	-0.0003	-2.5 to 2.5	Pass
					4.43	-4.735	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-4.048	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.636	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-3.247	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-2.160	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-2.160	-0.0009	-2.5 to 2.5	Pass

				10	3.85	-6.466	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-1.731	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-5.322	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0022	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-3.390	-0.0013	-2.5 to 2.5	Pass
					3.85	-6.037	-0.0024	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	5.937	0.0023	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.801	-0.0003	-2.5 to 2.5	Pass
				0	3.85	2.747	0.0011	-2.5 to 2.5	Pass
				10	3.85	1.202	0.0005	-2.5 to 2.5	Pass
				30	3.85	-6.137	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-2.060	-0.0008	-2.5 to 2.5	Pass
				50	3.85	1.488	0.0006	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-2.661	-0.0010	-2.5 to 2.5	Pass
					3.85	-5.093	-0.0020	-2.5 to 2.5	Pass
					4.43	-5.879	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-6.323	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-3.004	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-4.063	-0.0016	-2.5 to 2.5	Pass
				0	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.818	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-2.546	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-7.696	-0.0030	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.27	-3.662	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.531	-0.0006	-2.5 to 2.5	Pass
					4.43	0.157	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.372	-0.0001	-2.5 to 2.5	Pass
				10	3.85	1.187	0.0005	-2.5 to 2.5	Pass
				30	3.85	-5.279	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-2.246	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-2.604	-0.0010	-2.5 to 2.5	Pass
	2535	50	0	20	3.27	-3.247	-0.0013	-2.5 to 2.5	Pass
					3.85	0.429	0.0002	-2.5 to 2.5	Pass
					4.43	-3.119	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	4.392	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.101	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-3.161	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.189	-0.0009	-2.5 to 2.5	Pass
				40	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
	2565	50	0	20	3.27	-7.424	-0.0029	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0017	-2.5 to 2.5	Pass
					4.43	-1.016	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	3.676	0.0014	-2.5 to 2.5	Pass
				-20	3.85	-4.334	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-3.104	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.532	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-8.526	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-3.920	-0.0015	-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	3.27	5.150	0.0021	-2.5 to 2.5	Pass
					3.85	-1.531	-0.0006	-2.5 to 2.5	Pass
					4.43	-0.944	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.343	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.275	0.0009	-2.5 to 2.5	Pass
				0	3.85	1.059	0.0004	-2.5 to 2.5	Pass
				10	3.85	0.486	0.0002	-2.5 to 2.5	Pass
				30	3.85	2.518	0.0010	-2.5 to 2.5	Pass
				40	3.85	-1.330	-0.0005	-2.5 to 2.5	Pass
				50	3.85	4.206	0.0017	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-2.875	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	-3.219	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.944	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-4.978	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-5.121	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-2.933	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-5.836	-0.0023	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-8.254	-0.0032	-2.5 to 2.5	Pass
					3.85	-3.433	-0.0013	-2.5 to 2.5	Pass
					4.43	-3.862	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-6.351	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.934	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-3.233	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-2.160	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-8.783	-0.0034	-2.5 to 2.5	Pass
16QAM	2507.5	75	0	20	3.27	3.119	0.0012	-2.5 to 2.5	Pass
					3.85	0.587	0.0002	-2.5 to 2.5	Pass
					4.43	0.486	0.0002	-2.5 to 2.5	Pass
				-30	3.85	4.234	0.0017	-2.5 to 2.5	Pass
				-20	3.85	1.073	0.0004	-2.5 to 2.5	Pass
				-10	3.85	1.688	0.0007	-2.5 to 2.5	Pass
				0	3.85	1.287	0.0005	-2.5 to 2.5	Pass
				10	3.85	6.680	0.0027	-2.5 to 2.5	Pass
				30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				40	3.85	2.275	0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.858	-0.0003	-2.5 to 2.5	Pass
	2535	75	0	20	3.27	-3.805	-0.0015	-2.5 to 2.5	Pass
					3.85	-3.147	-0.0012	-2.5 to 2.5	Pass
					4.43	-5.121	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.467	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-2.732	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-7.553	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-0.873	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-2.332	-0.0009	-2.5 to 2.5	Pass

				30	3.85	-3.076	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-4.206	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-1.388	-0.0005	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.27	-9.584	-0.0037	-2.5 to 2.5	Pass
					3.85	-2.789	-0.0011	-2.5 to 2.5	Pass
					4.43	-3.519	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-9.255	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-4.234	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-2.904	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-4.349	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-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	3.27	3.176	0.0013	-2.5 to 2.5	Pass
					3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
					4.43	0.429	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.787	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-2.275	-0.0009	-2.5 to 2.5	Pass
				50	3.85	3.490	0.0014	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-3.819	-0.0015	-2.5 to 2.5	Pass
					3.85	4.363	0.0017	-2.5 to 2.5	Pass
					4.43	-1.316	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-2.103	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				30	3.85	-4.020	-0.0016	-2.5 to 2.5	Pass
				40	3.85	0.672	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.057	0.0000	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-1.774	-0.0007	-2.5 to 2.5	Pass
					3.85	0.544	0.0002	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-4.120	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				0	3.85	-4.735	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-1.345	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-5.851	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-8.569	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-3.705	-0.0014	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.27	-0.973	-0.0004	-2.5 to 2.5	Pass
					3.85	3.004	0.0012	-2.5 to 2.5	Pass
					4.43	1.101	0.0004	-2.5 to 2.5	Pass
				-30	3.85	1.359	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.329	-0.0001	-2.5 to 2.5	Pass

				-10	3.85	-1.001	-0.0004	-2.5 to 2.5	Pass
				0	3.85	1.488	0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.760	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.944	0.0004	-2.5 to 2.5	Pass
				40	3.85	5.665	0.0023	-2.5 to 2.5	Pass
				50	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-2.518	-0.0010	-2.5 to 2.5	Pass
					3.85	-6.566	-0.0026	-2.5 to 2.5	Pass
					4.43	0.787	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-1.717	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-5.479	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-7.467	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-3.877	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-6.137	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-3.247	-0.0013	-2.5 to 2.5	Pass
					3.85	1.516	0.0006	-2.5 to 2.5	Pass
					4.43	1.116	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-7.110	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-6.781	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				10	3.85	0.529	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-3.190	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.774	-0.0007	-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	



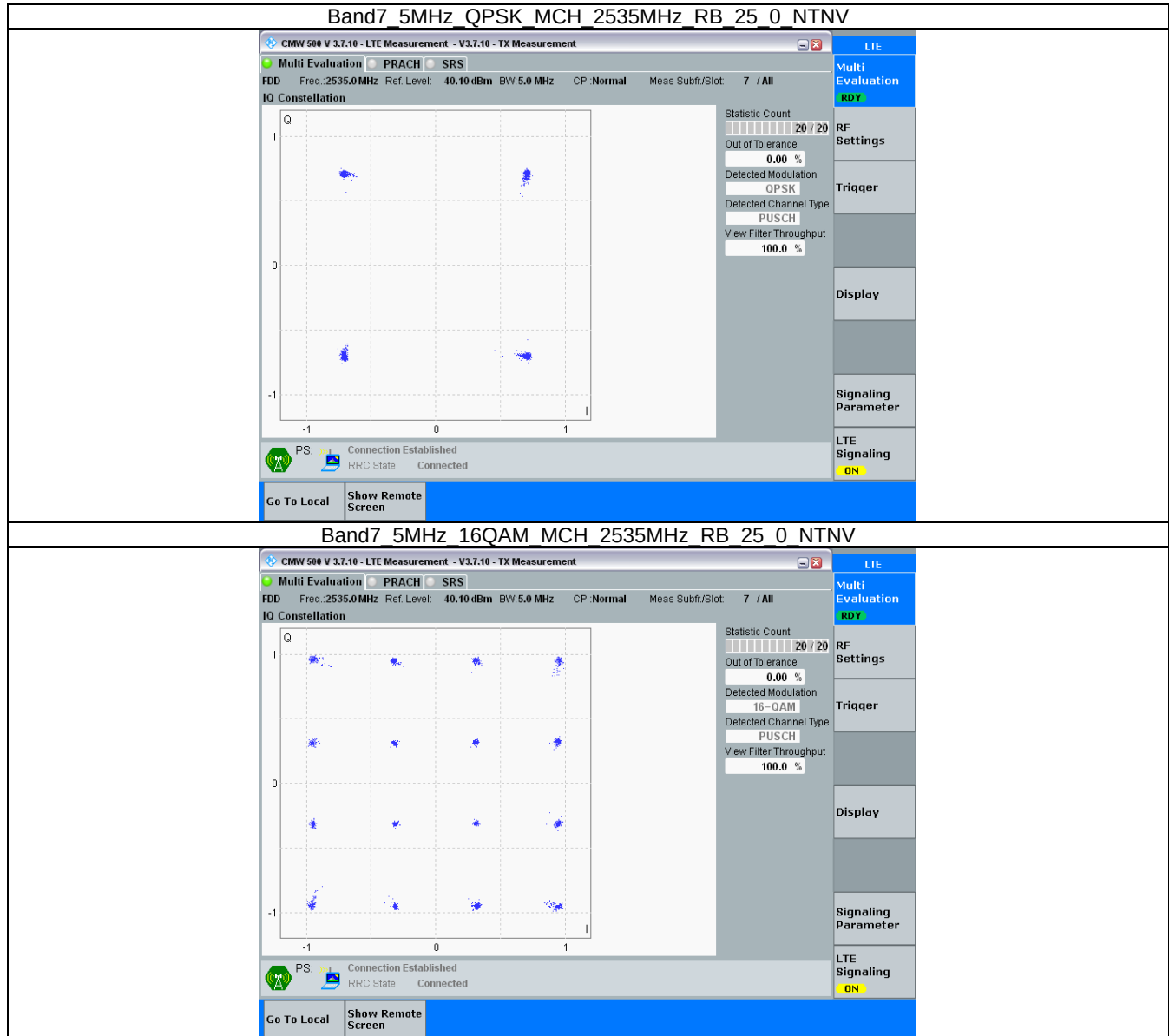
QPSK	2535	75	0	Refer To Test Graph	Pass
16QAM	2535	75	0	Refer To Test Graph	Pass

3.1.4 B7_20MHz

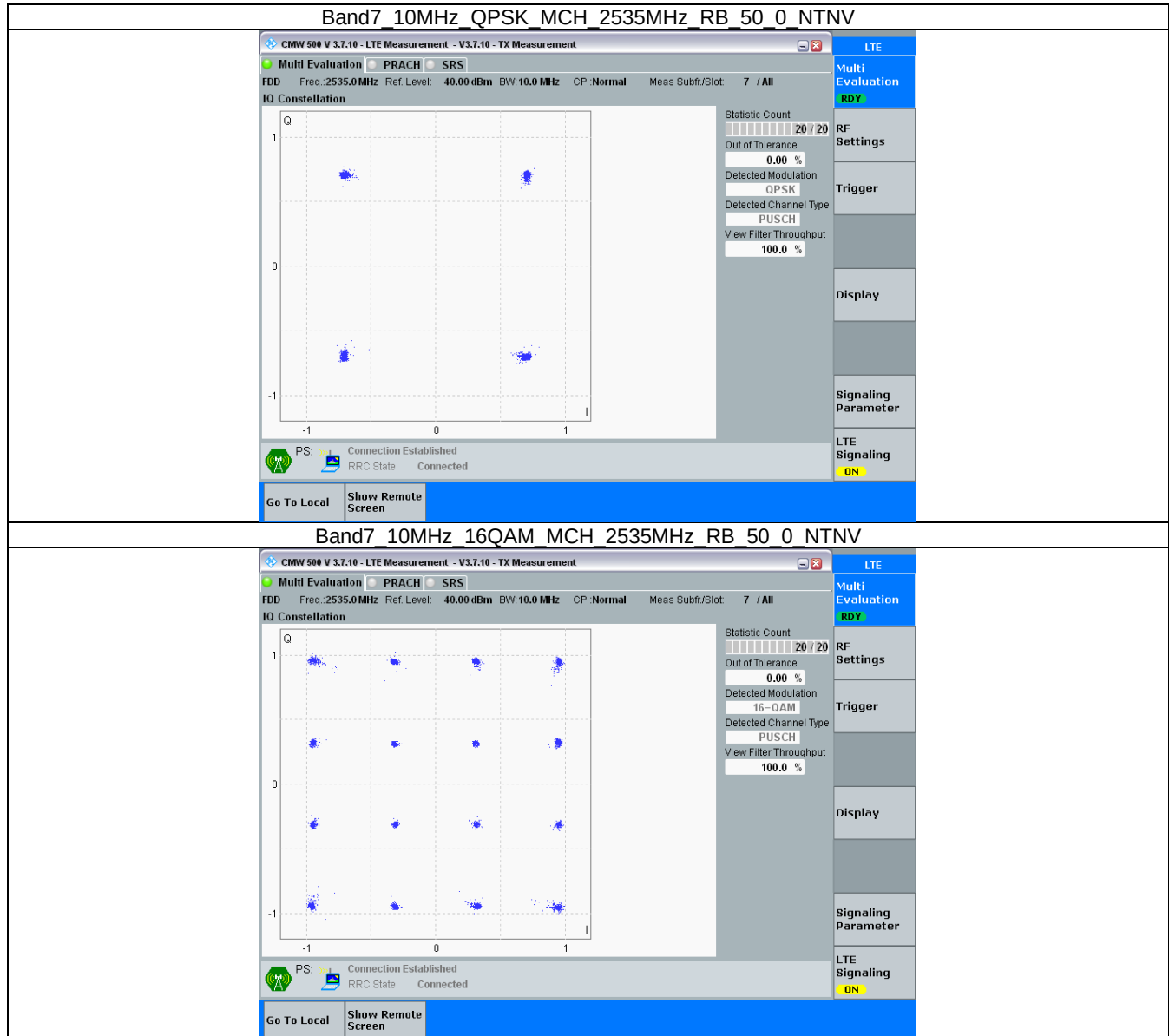
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.2 Test Graph

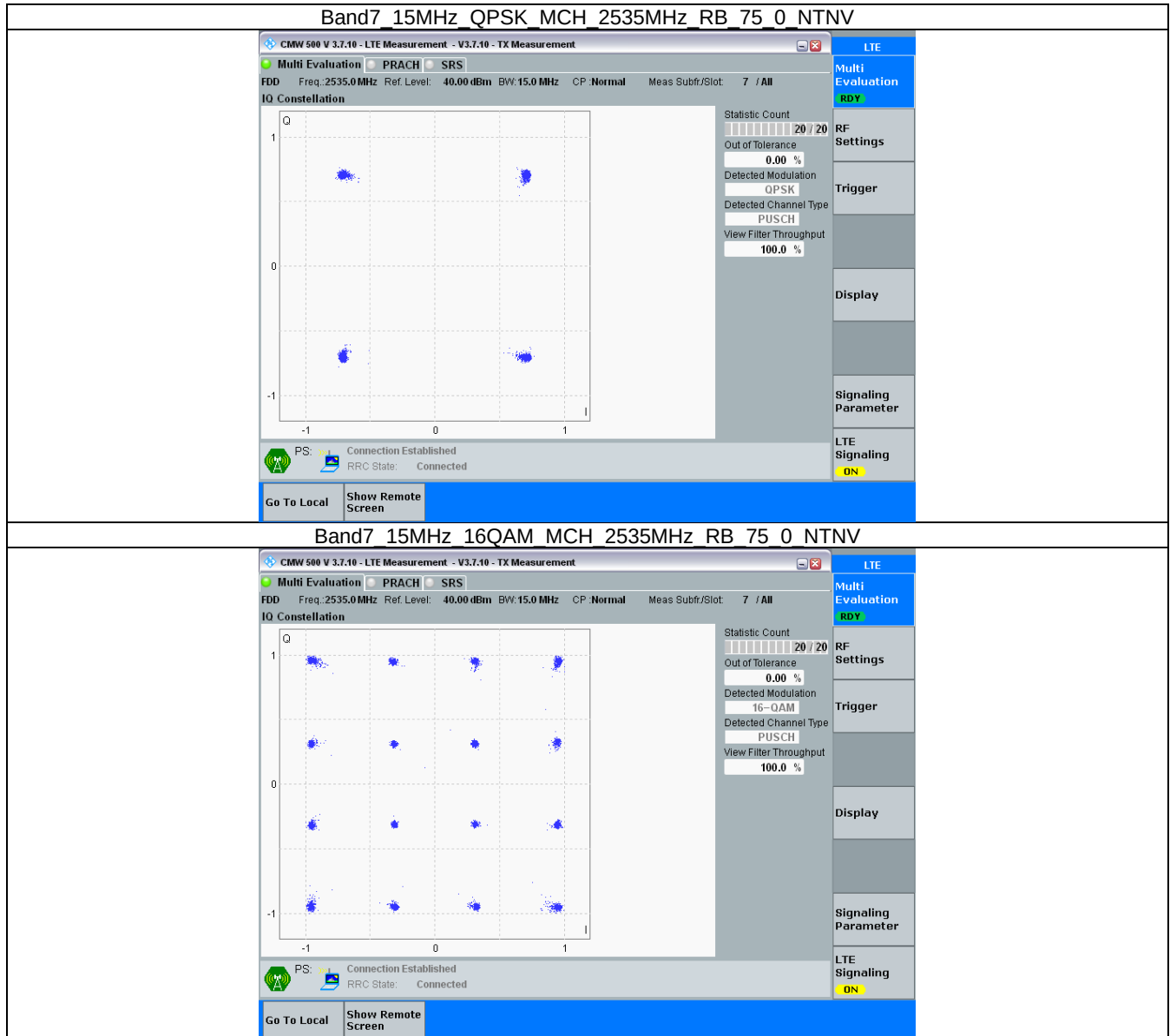
3.2.1 B7_5MHz



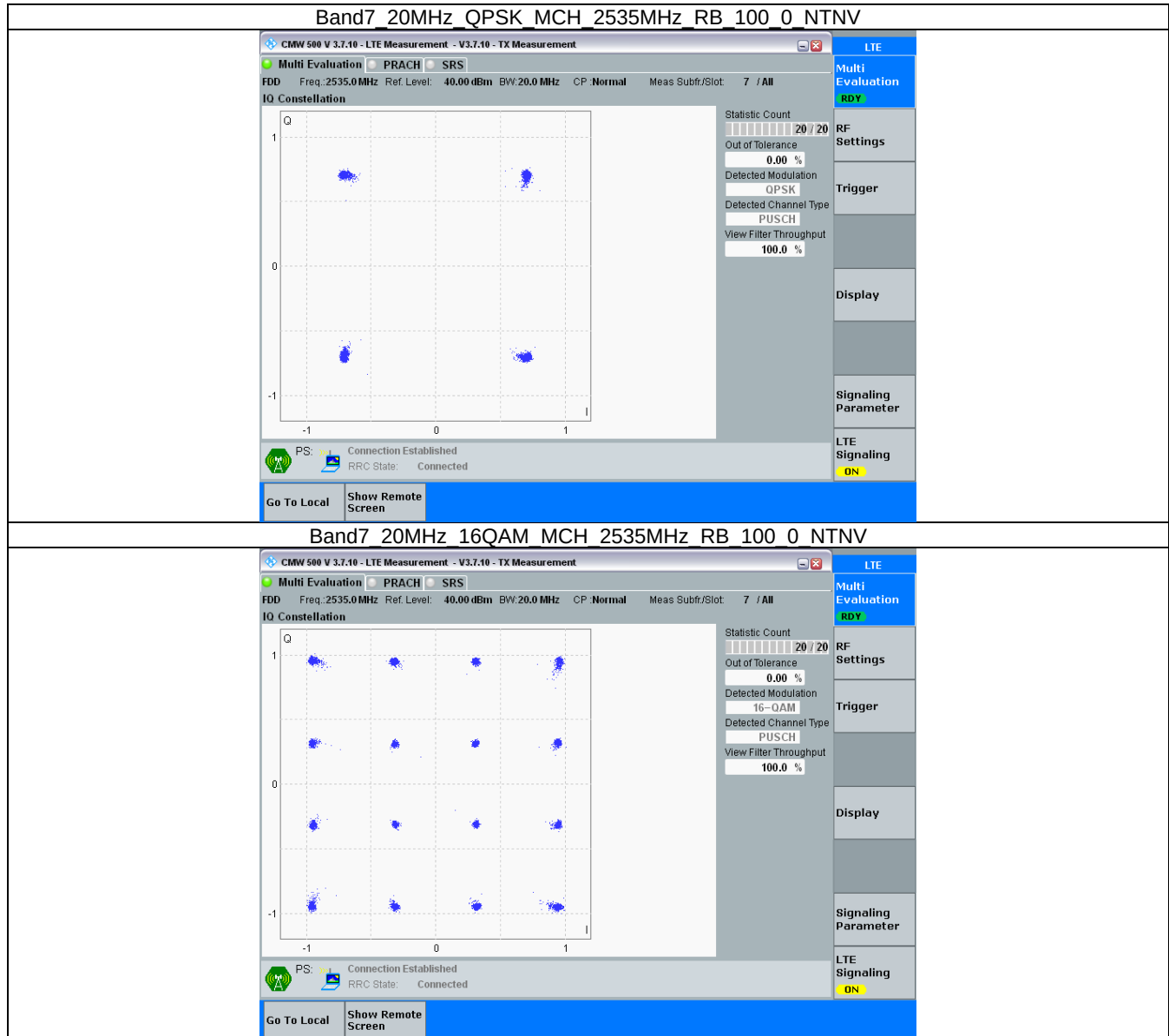
3.2.2 B7_10MHz



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	4.546	/	Pass
		2535	25	0	4.550	/	Pass
		2567.5	25	0	4.570	/	Pass
	16QAM	2502.5	25	0	4.549	/	Pass
		2535	25	0	4.566	/	Pass
		2567.5	25	0	4.541	/	Pass
10	QPSK	2505	50	0	9.066	/	Pass
		2535	50	0	9.052	/	Pass
		2565	50	0	9.088	/	Pass
	16QAM	2505	50	0	9.059	/	Pass
		2535	50	0	9.073	/	Pass
		2565	50	0	9.059	/	Pass
15	QPSK	2507.5	75	0	13.562	/	Pass
		2535	75	0	13.601	/	Pass
		2562.5	75	0	13.633	/	Pass
	16QAM	2507.5	75	0	13.546	/	Pass
		2535	75	0	13.618	/	Pass
		2562.5	75	0	13.665	/	Pass
20	QPSK	2510	100	0	18.055	/	Pass
		2535	100	0	18.115	/	Pass
		2560	100	0	18.127	/	Pass
	16QAM	2510	100	0	18.054	/	Pass
		2535	100	0	18.139	/	Pass
		2560	100	0	18.202	/	Pass

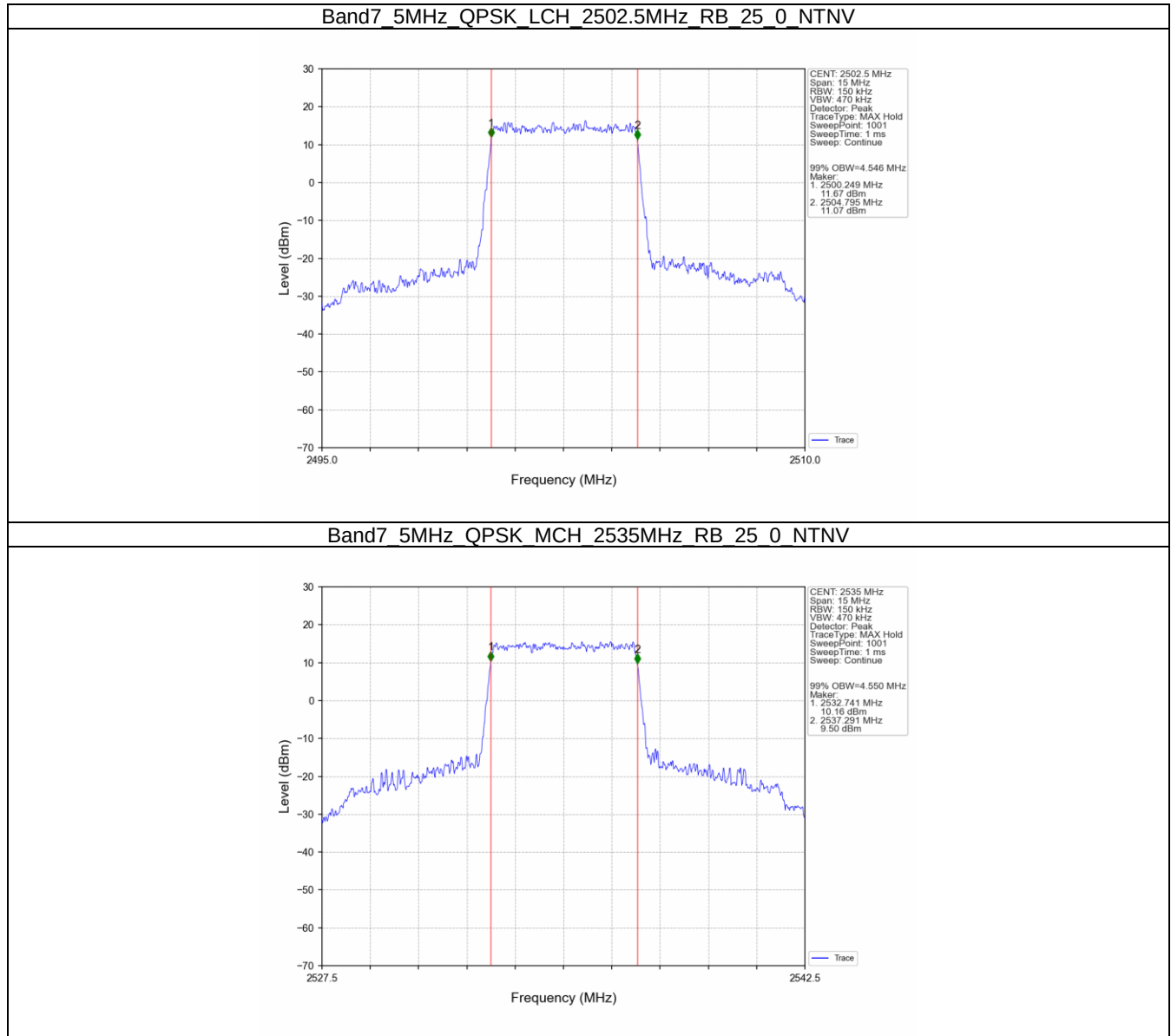
4.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.069	/	Pass
		2535	25	0	5.077	/	Pass
		2567.5	25	0	5.044	/	Pass
	16QAM	2502.5	25	0	5.030	/	Pass
		2535	25	0	5.071	/	Pass
		2567.5	25	0	5.038	/	Pass
10	QPSK	2505	50	0	9.962	/	Pass
		2535	50	0	9.972	/	Pass
		2565	50	0	9.924	/	Pass
	16QAM	2505	50	0	9.864	/	Pass
		2535	50	0	9.984	/	Pass
		2565	50	0	9.965	/	Pass
15	QPSK	2507.5	75	0	14.913	/	Pass
		2535	75	0	14.901	/	Pass
		2562.5	75	0	14.872	/	Pass

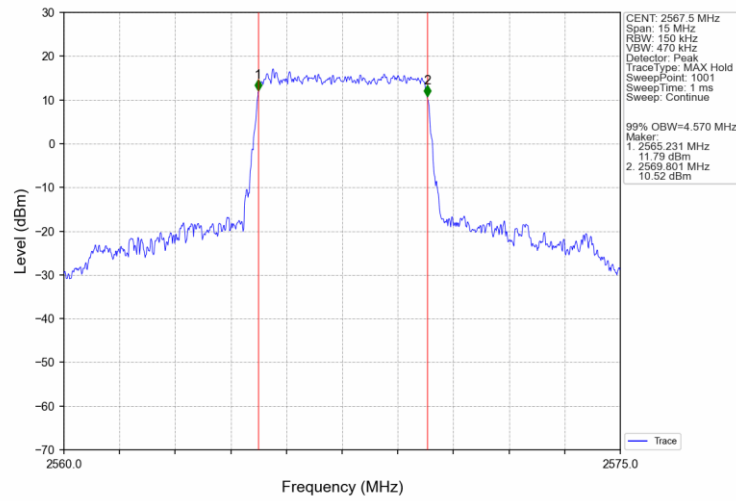
20	16QAM	2507.5	75	0	14.984	/	Pass
		2535	75	0	14.967	/	Pass
		2562.5	75	0	14.918	/	Pass
	QPSK	2510	100	0	19.702	/	Pass
		2535	100	0	19.883	/	Pass
		2560	100	0	19.528	/	Pass
	16QAM	2510	100	0	19.792	/	Pass
		2535	100	0	19.709	/	Pass
		2560	100	0	19.640	/	Pass

4.2 Test Graph

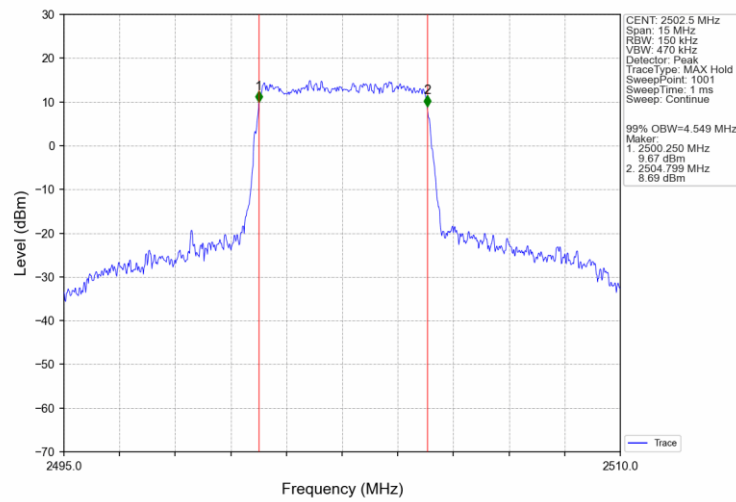
4.2.1 Band7_OBW



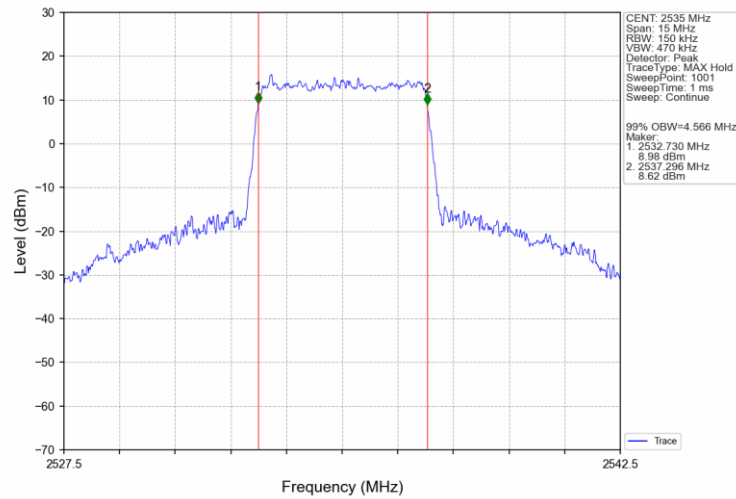
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



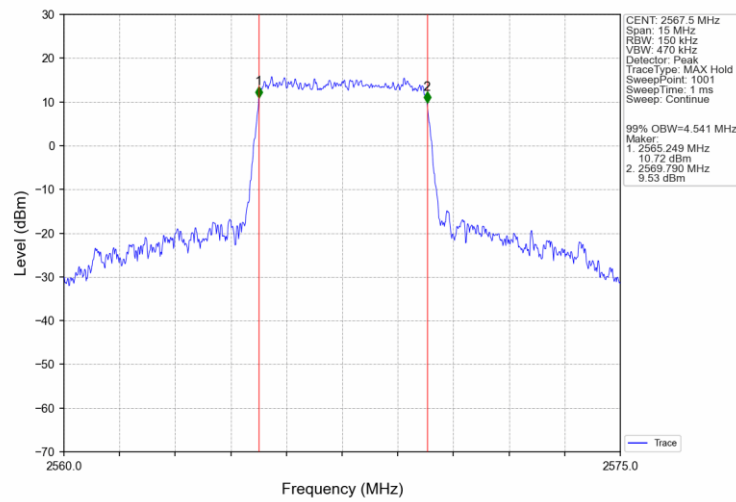
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



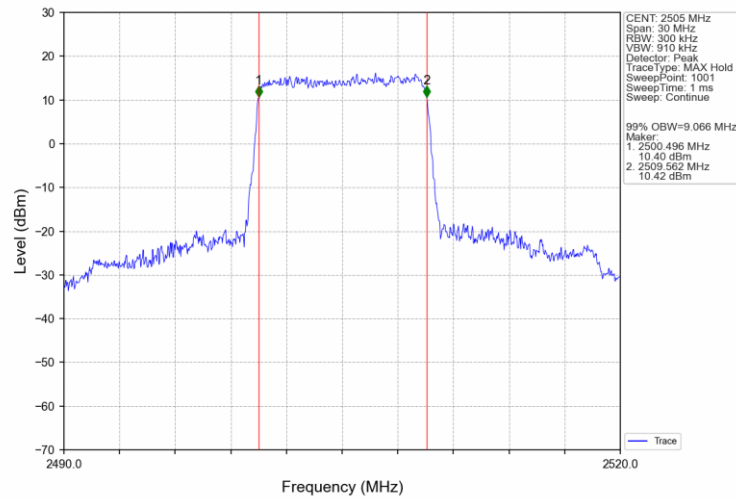
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



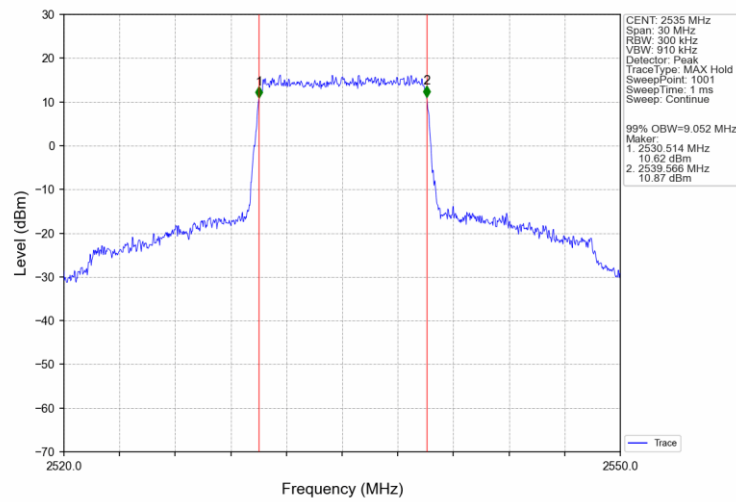
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



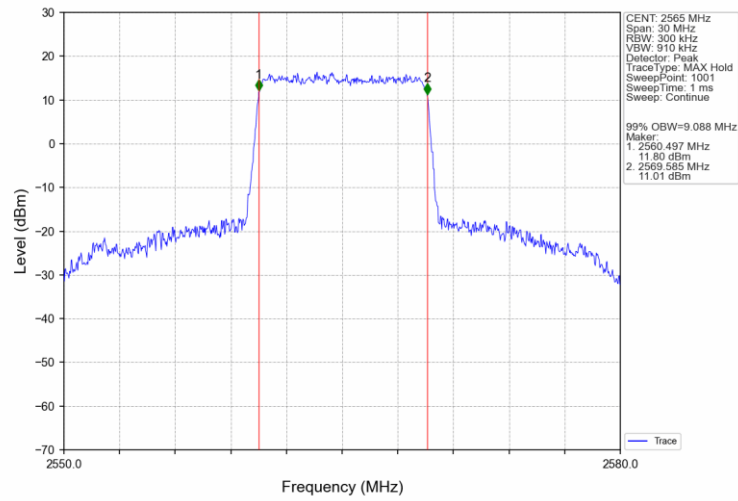
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



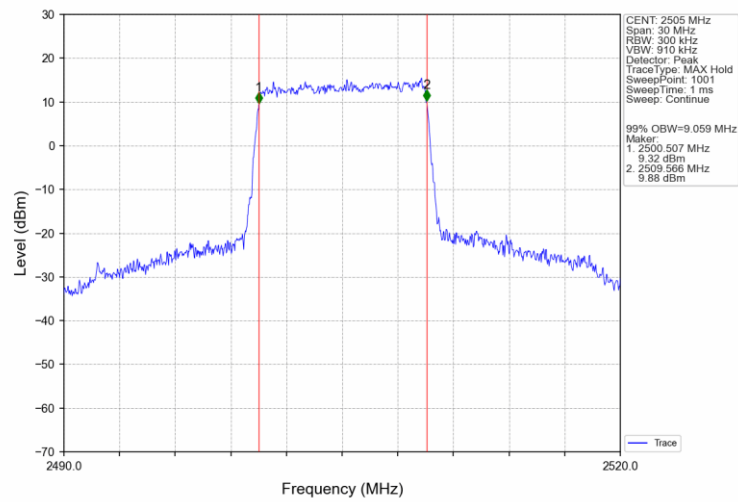
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



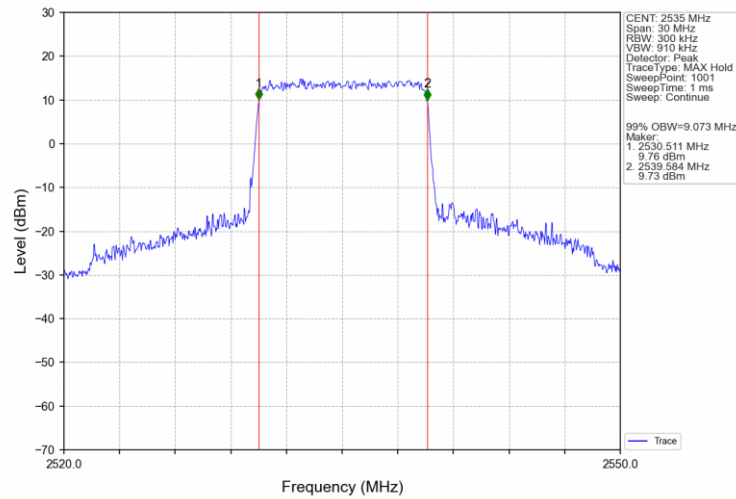
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



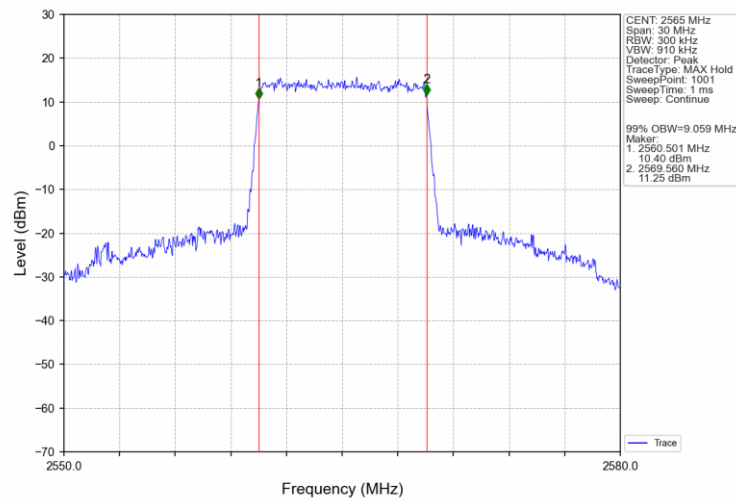
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



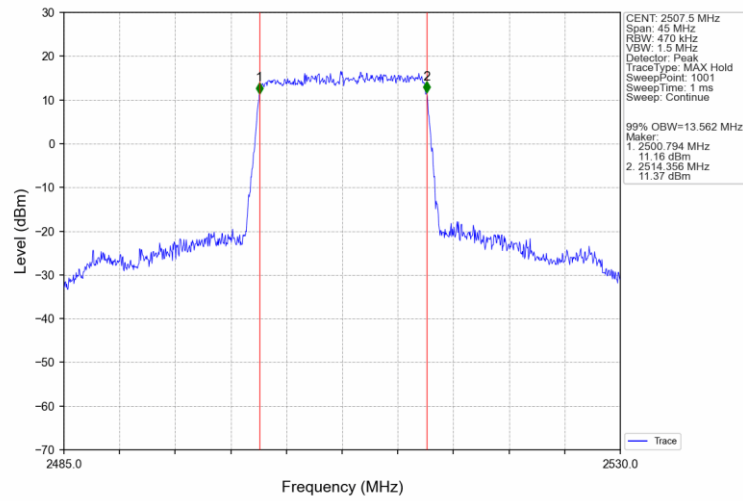
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



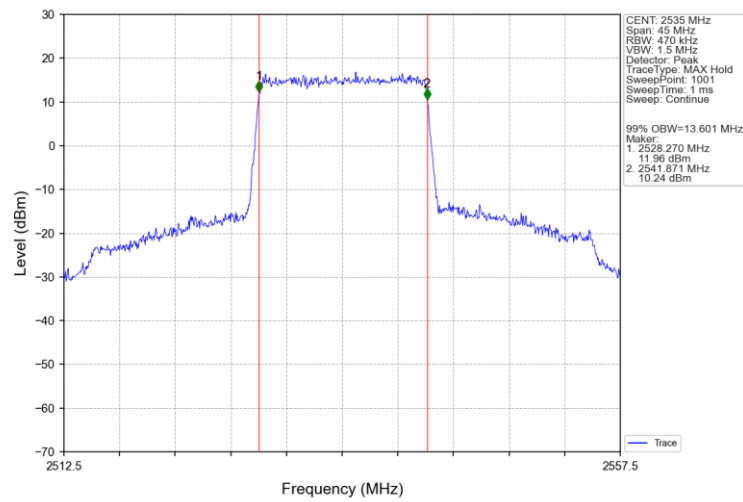
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



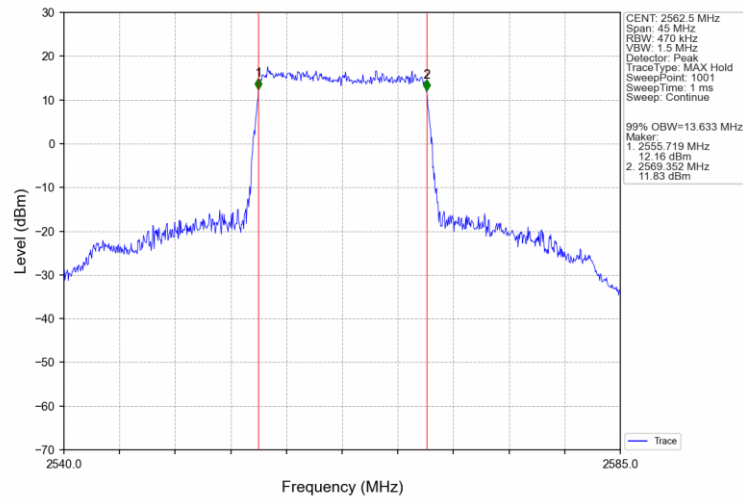
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



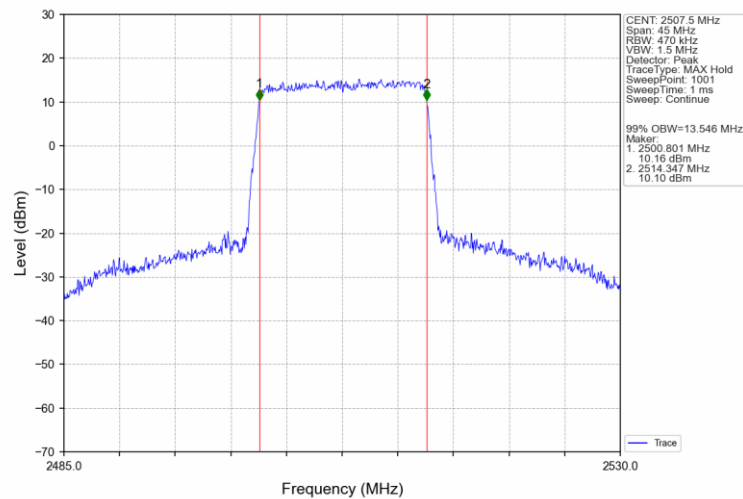
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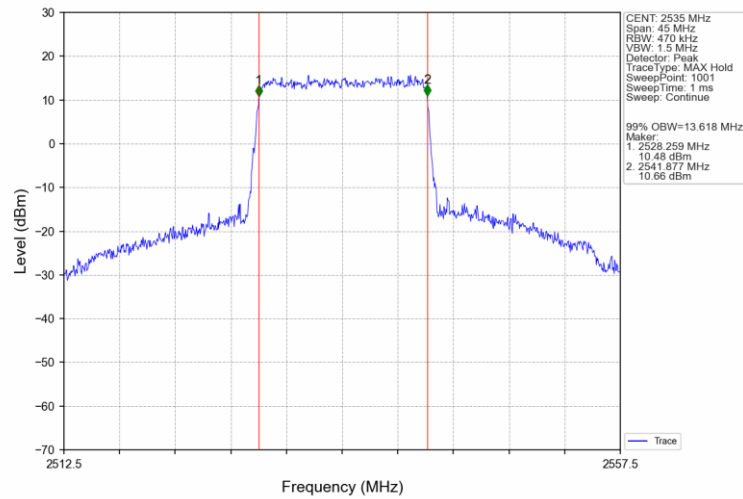
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



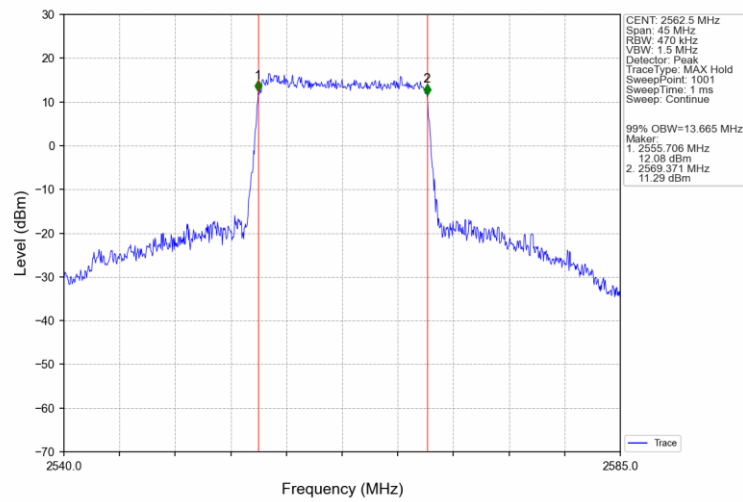
Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV



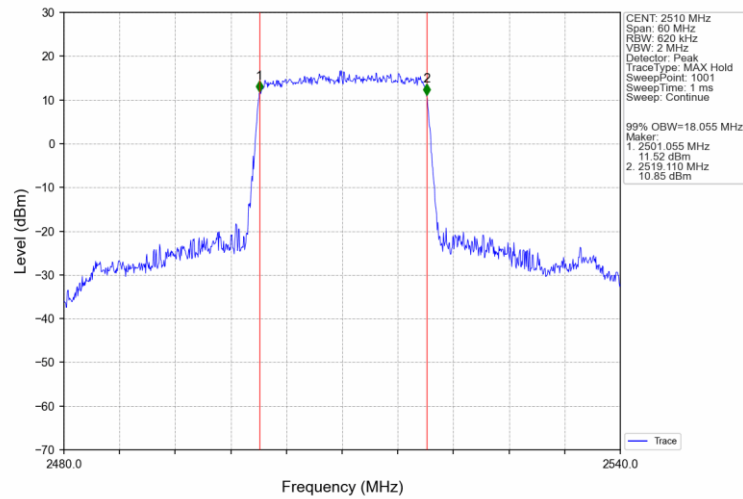
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



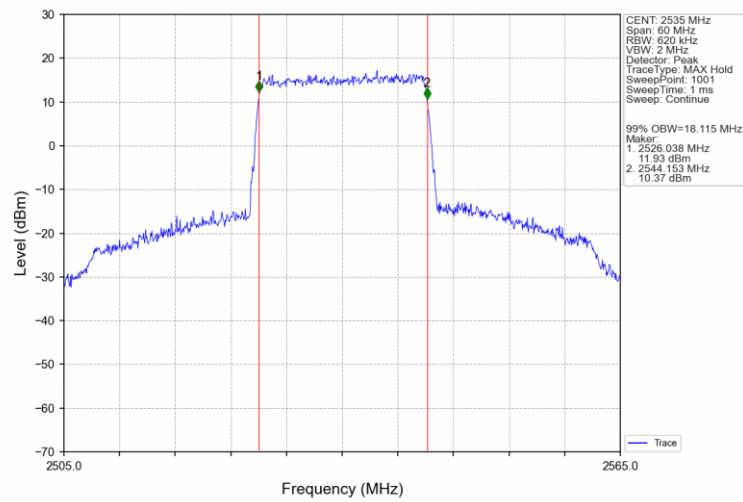
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



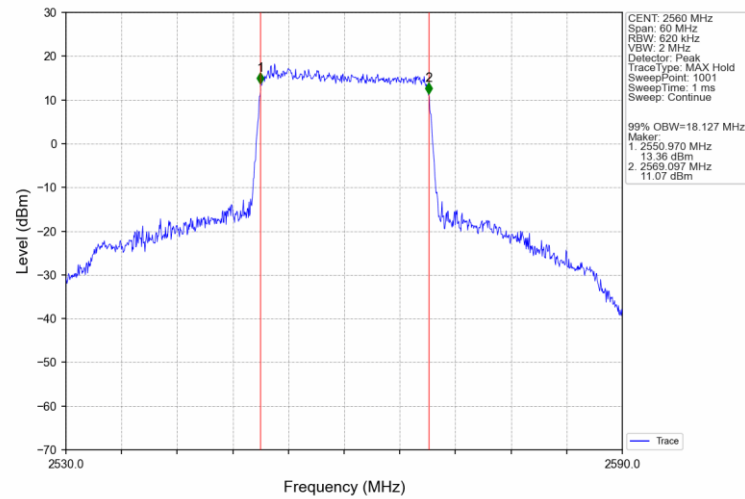
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



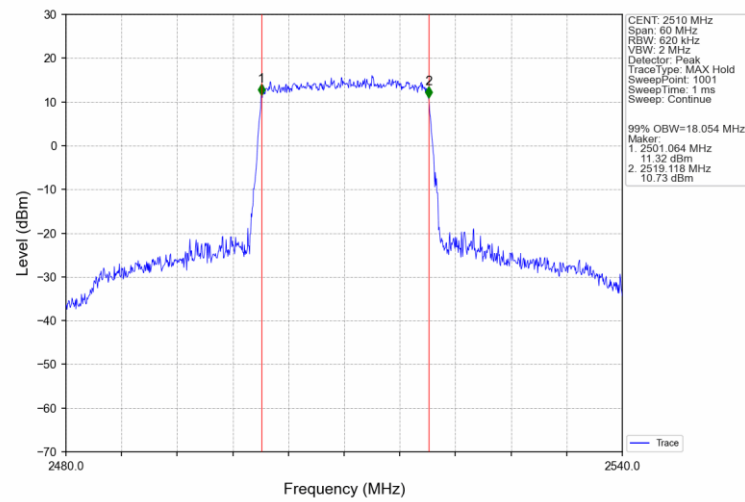
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



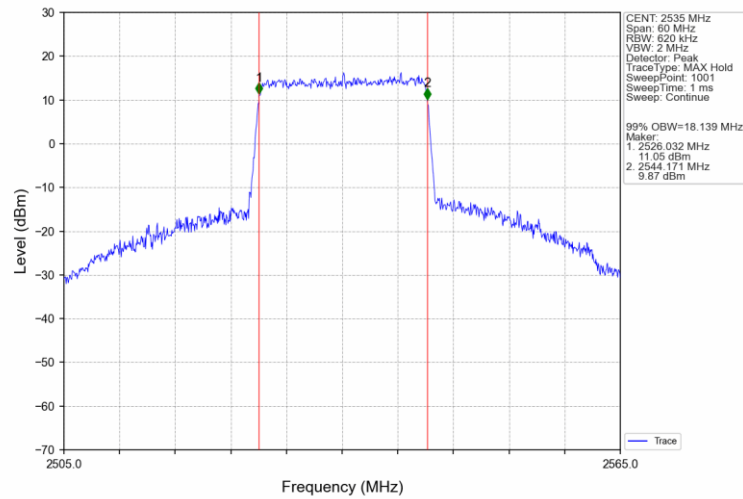
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



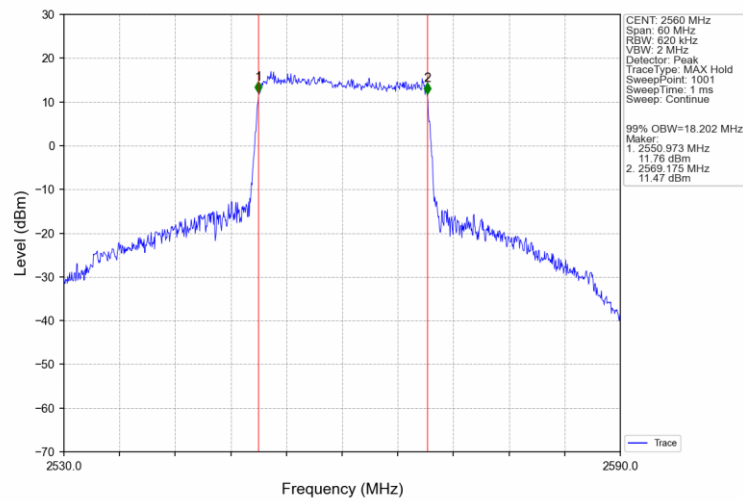
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV

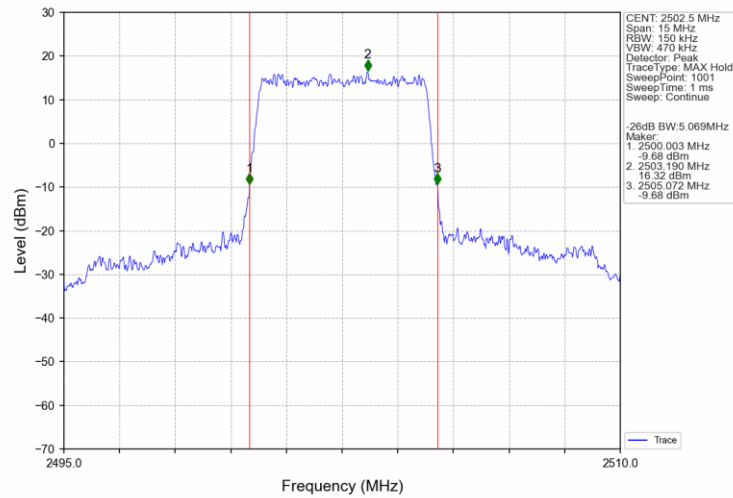


Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV

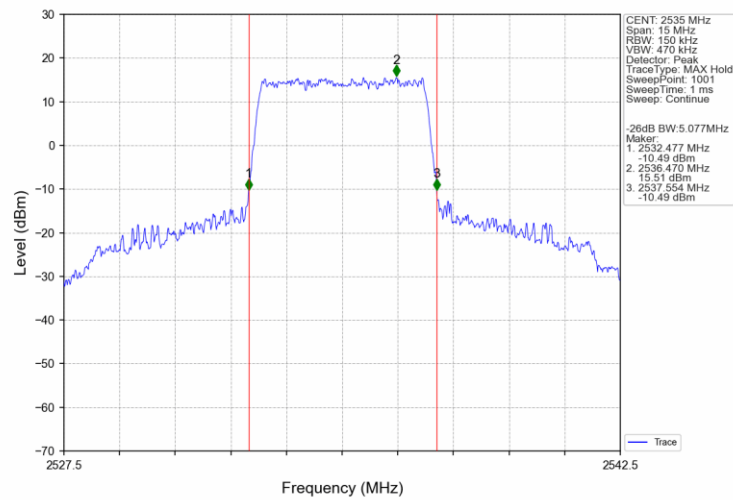


4.2.2 Band7_XDB

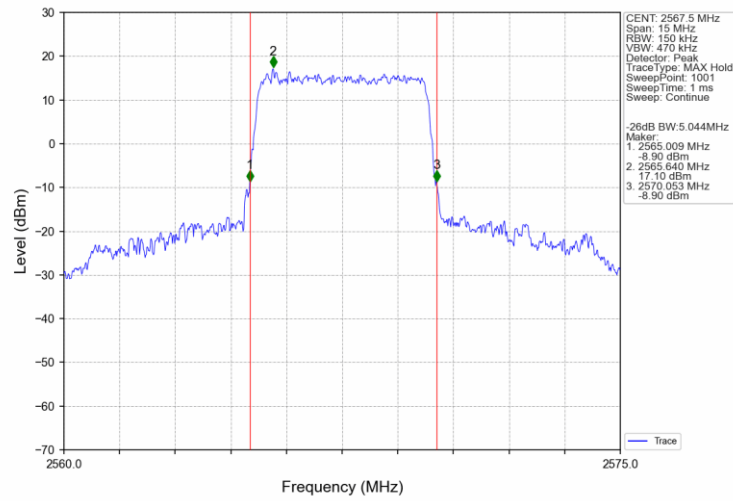
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTNV



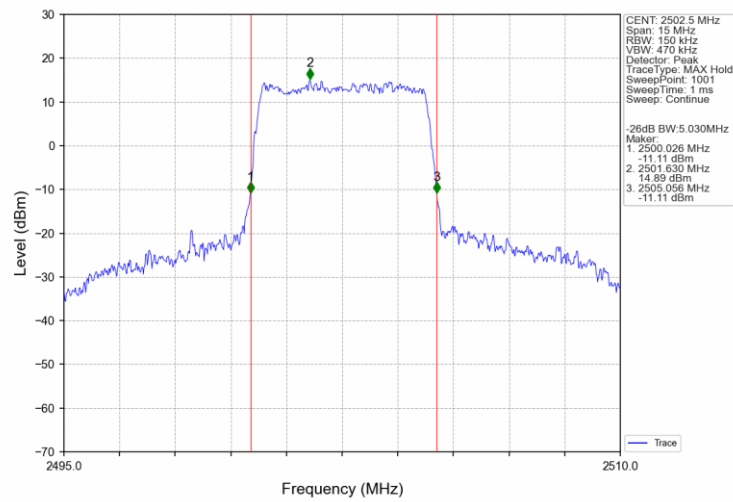
Band7 5MHz QPSK MCH 2535MHz RB 25 0 NTNV



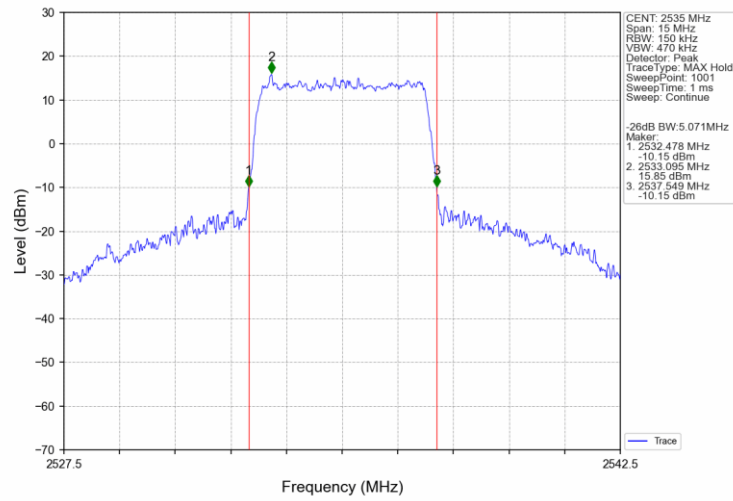
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



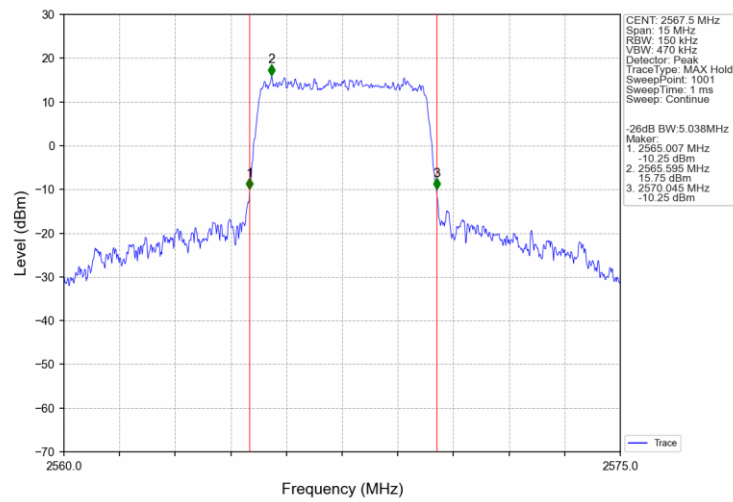
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



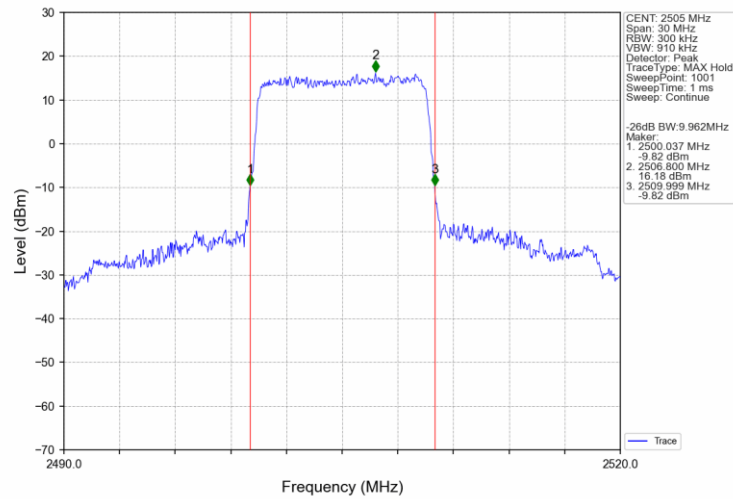
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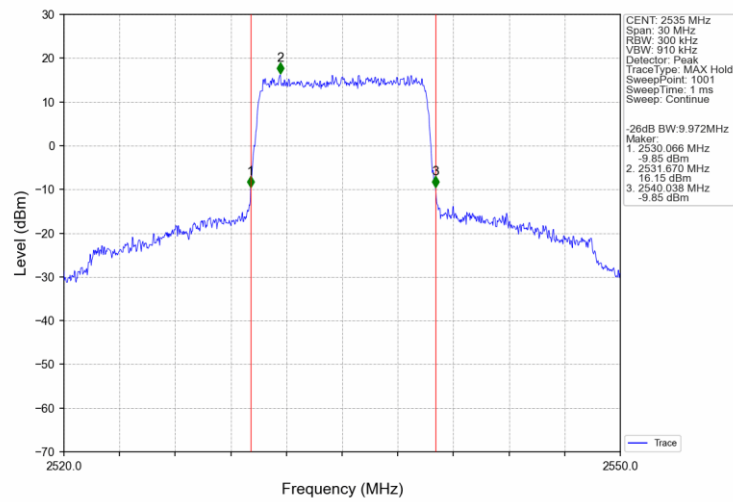
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



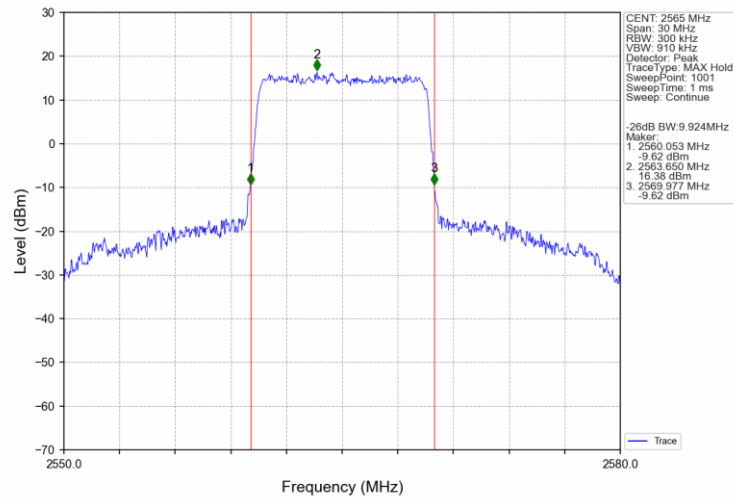
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



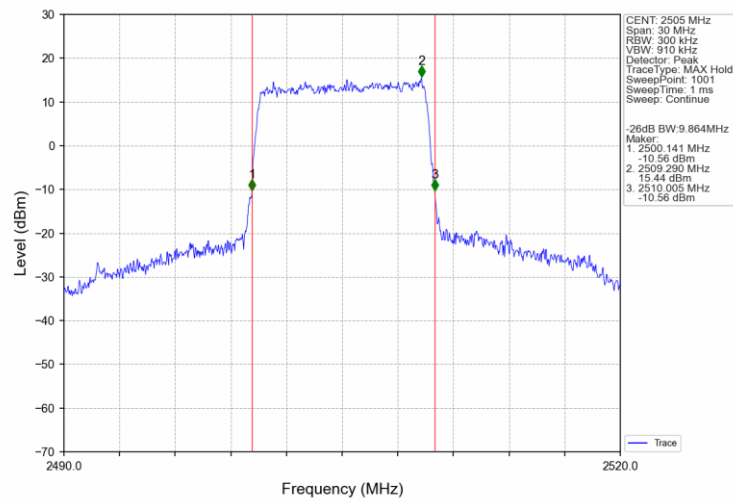
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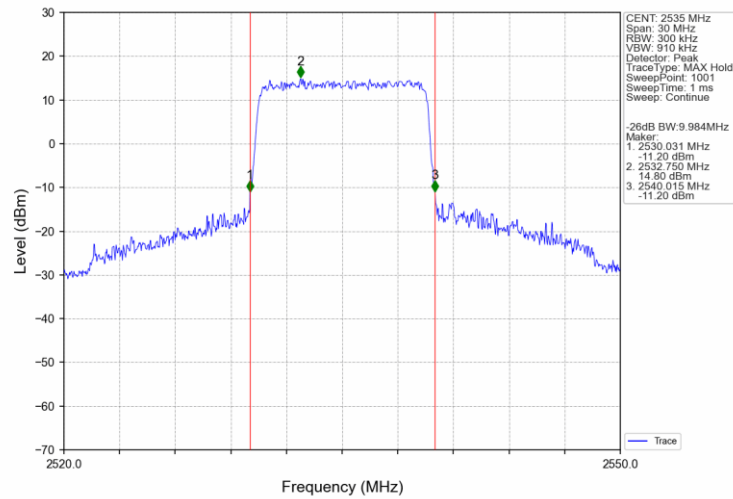
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



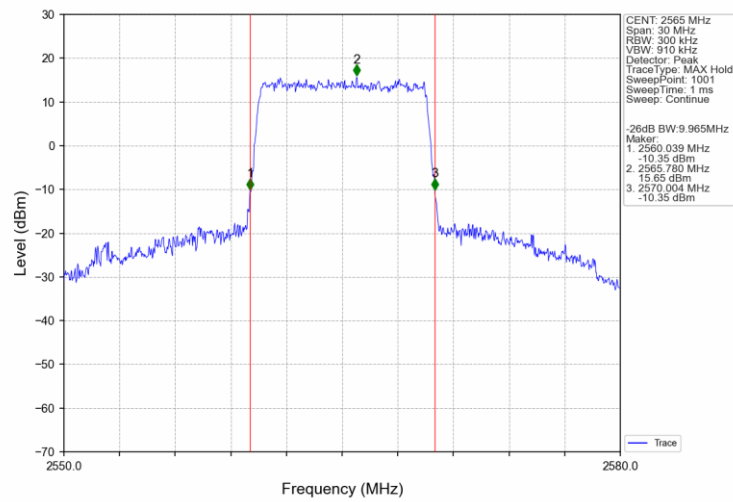
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



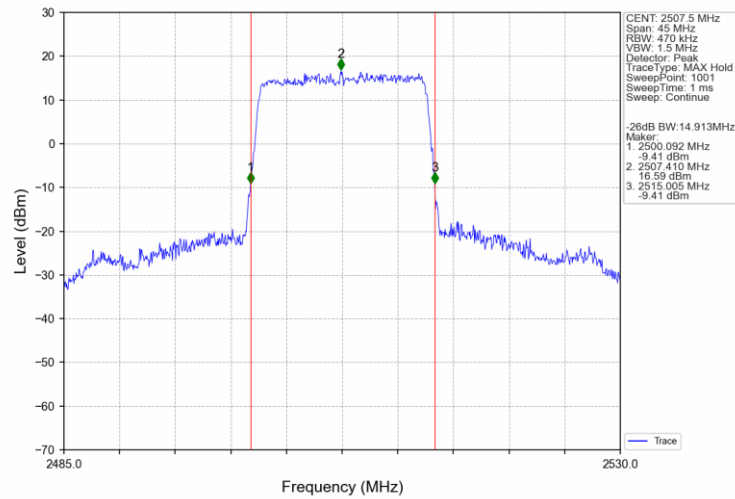
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



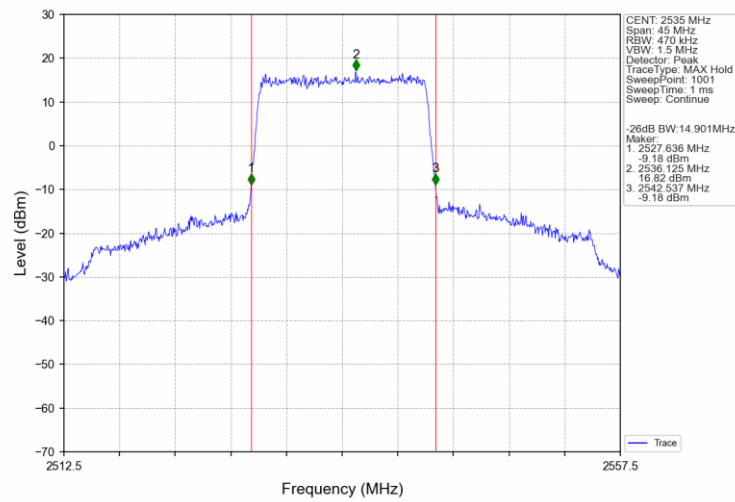
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



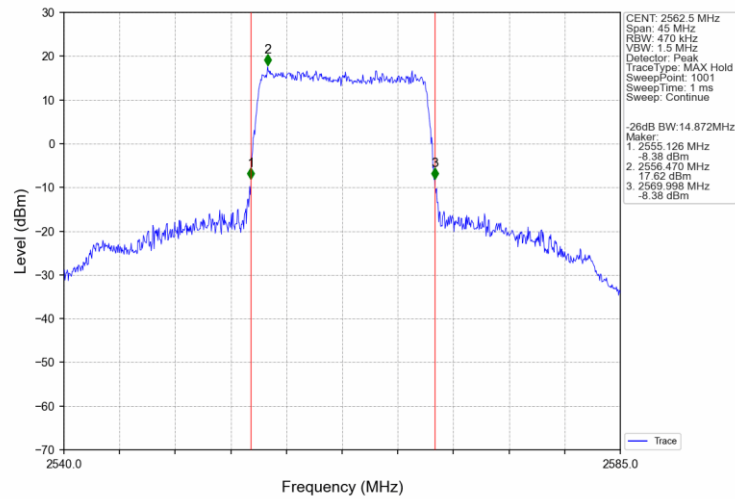
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



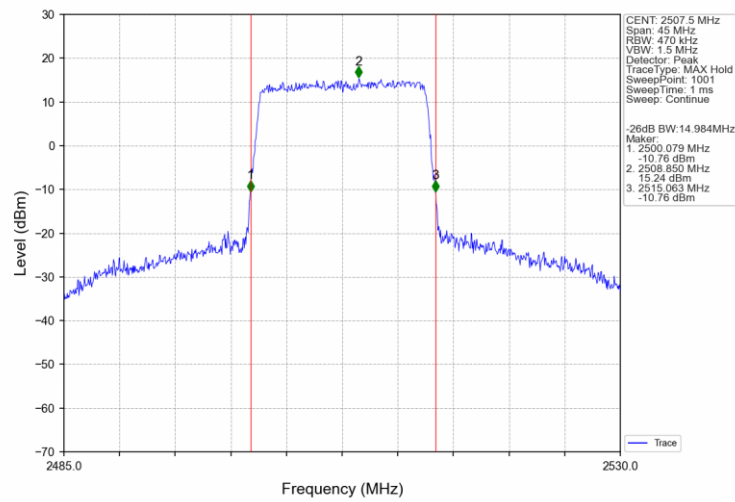
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



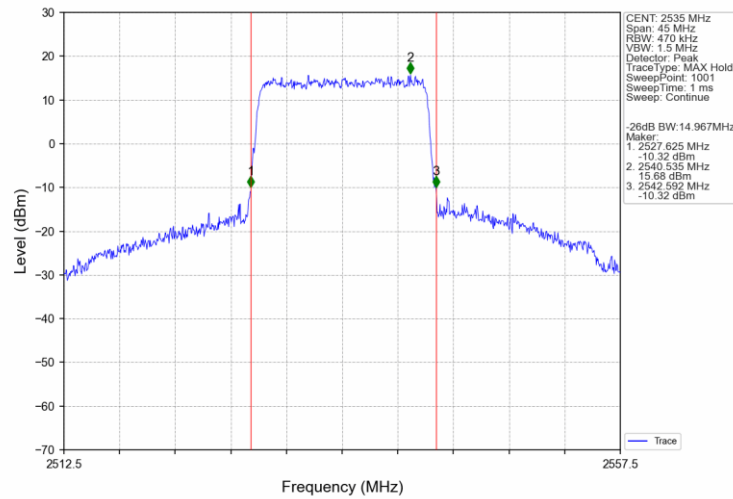
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



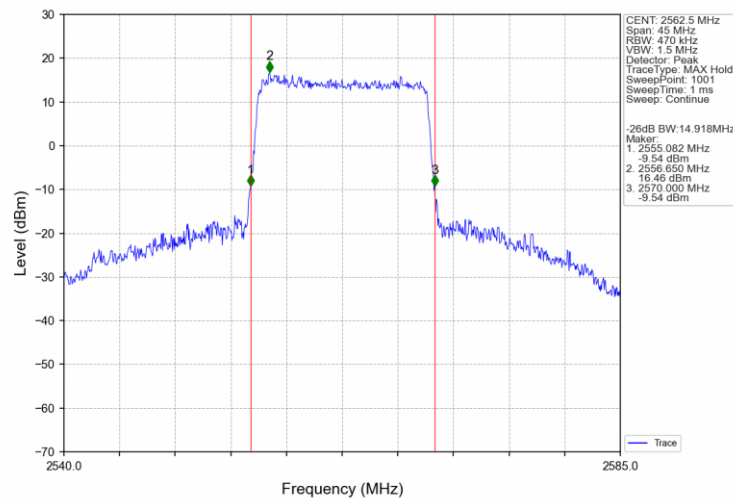
Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV



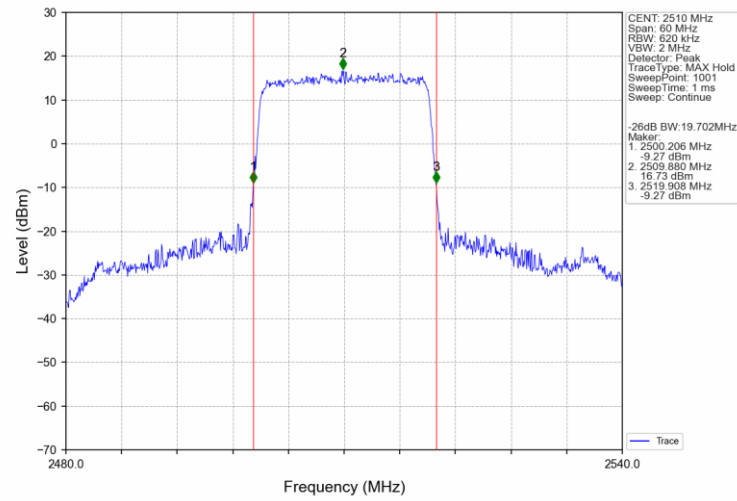
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



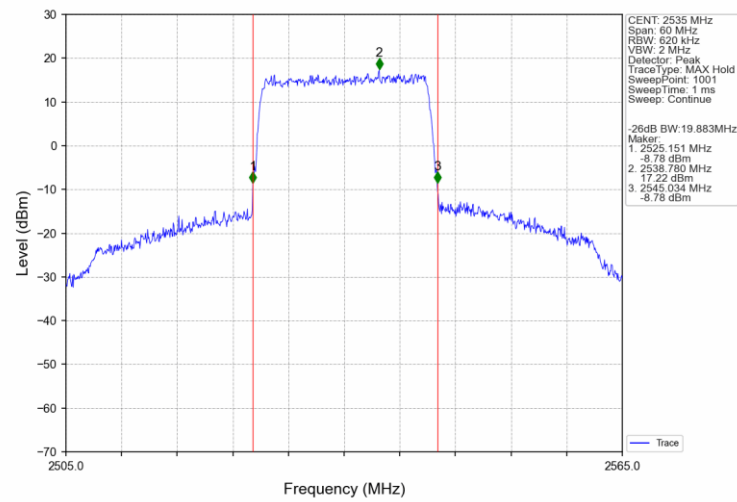
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



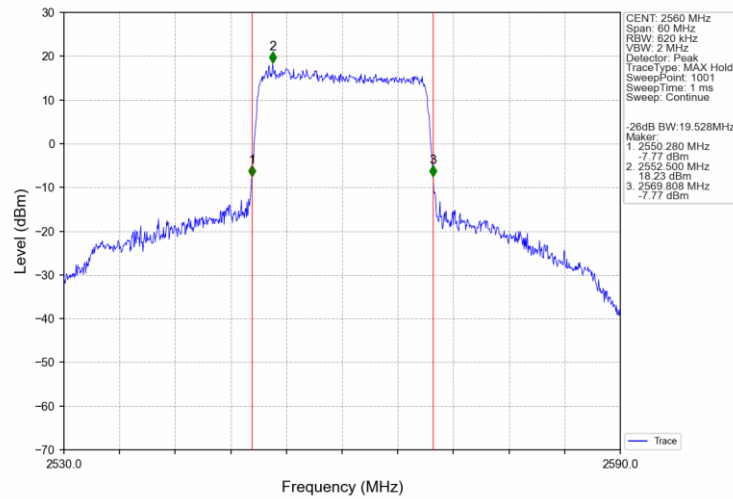
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



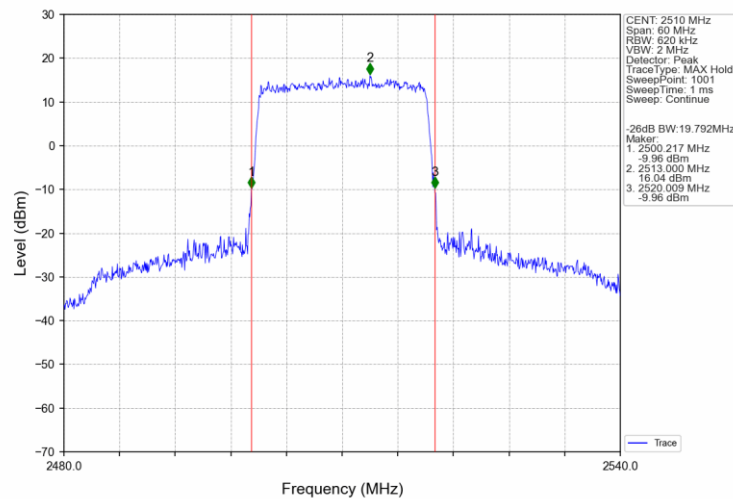
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



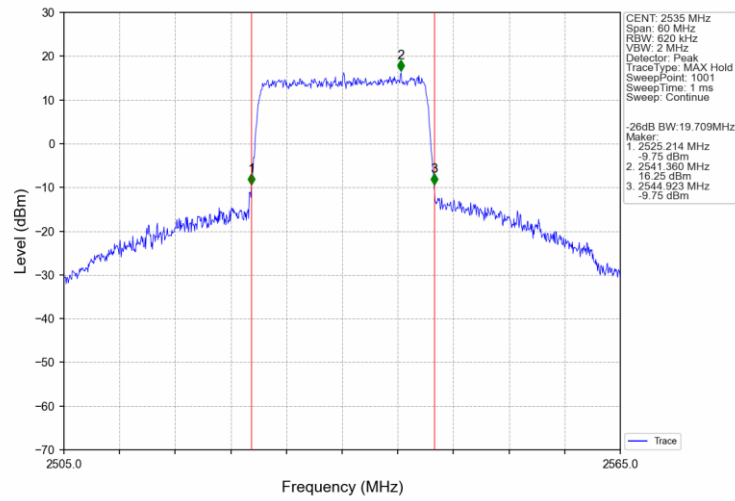
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



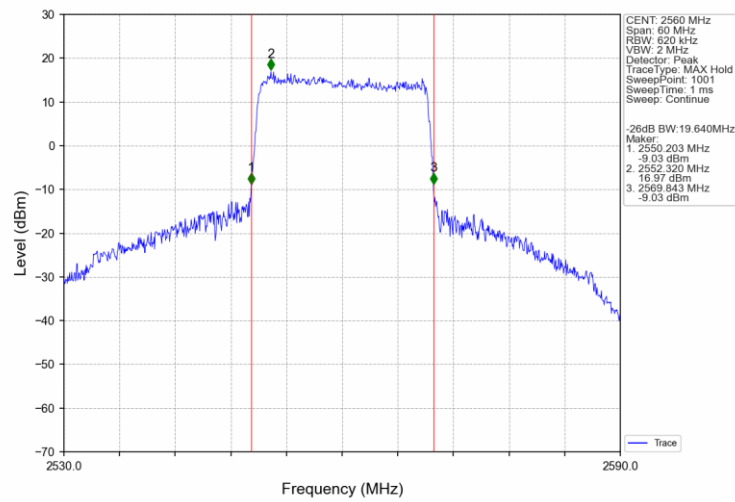
Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV



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	5.40	<=13	Pass
	2535	25	0	5.05	<=13	Pass
	2567.5	25	0	5.27	<=13	Pass
16QAM	2502.5	25	0	6.13	<=13	Pass
	2535	25	0	5.76	<=13	Pass
	2567.5	25	0	5.99	<=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	5.31	<=13	Pass
	2535	50	0	4.97	<=13	Pass
	2565	50	0	5.31	<=13	Pass
16QAM	2505	50	0	6.13	<=13	Pass
	2535	50	0	5.77	<=13	Pass
	2565	50	0	6.08	<=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	5.07	<=13	Pass
	2535	75	0	5.01	<=13	Pass
	2562.5	75	0	5.18	<=13	Pass
16QAM	2507.5	75	0	6.12	<=13	Pass
	2535	75	0	5.98	<=13	Pass
	2562.5	75	0	6.13	<=13	Pass

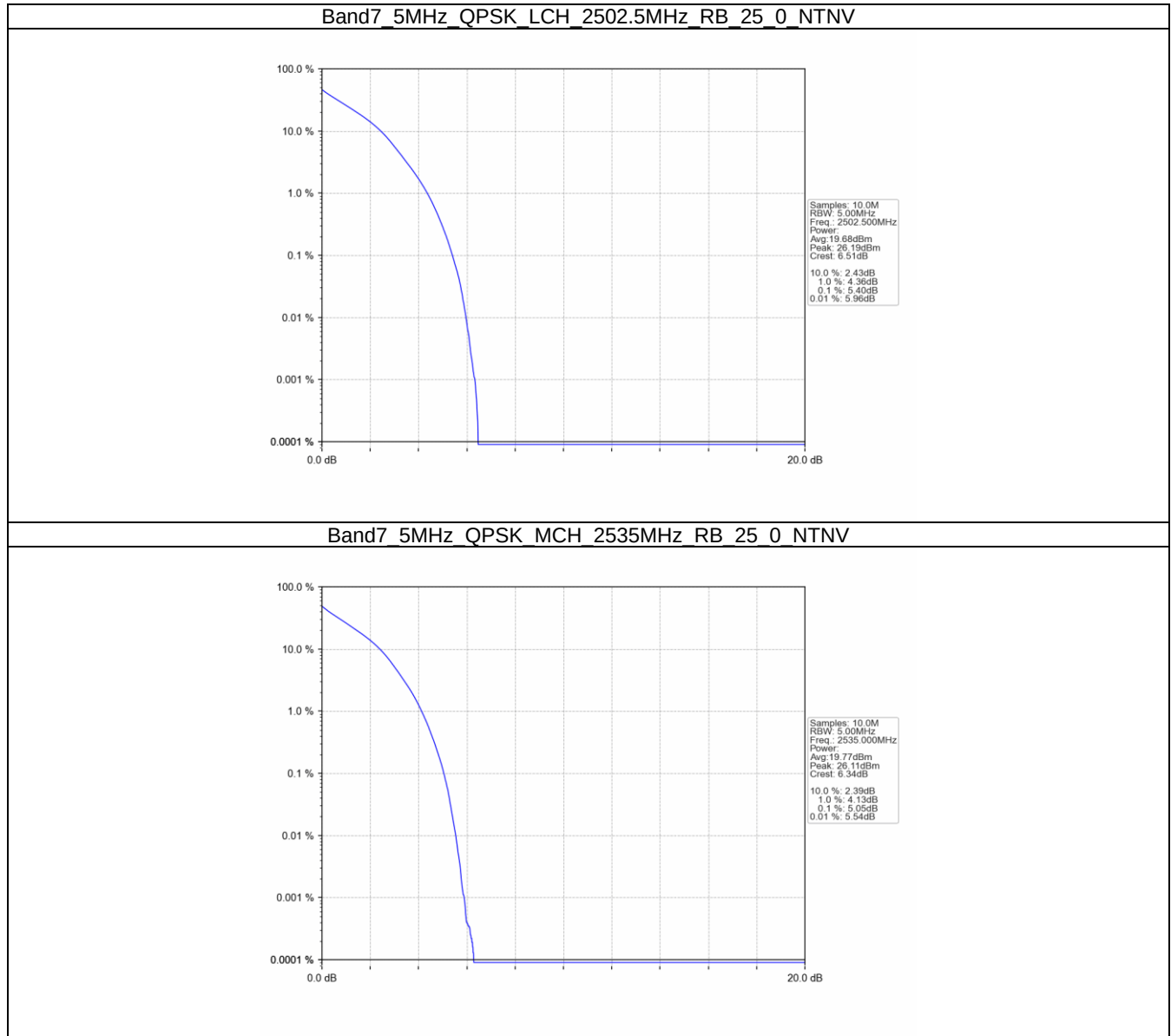
5.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.62	<=13	Pass
	2535	100	0	5.71	<=13	Pass
	2560	100	0	5.65	<=13	Pass
16QAM	2510	100	0	6.60	<=13	Pass
	2535	100	0	6.59	<=13	Pass
	2560	100	0	6.66	<=13	Pass

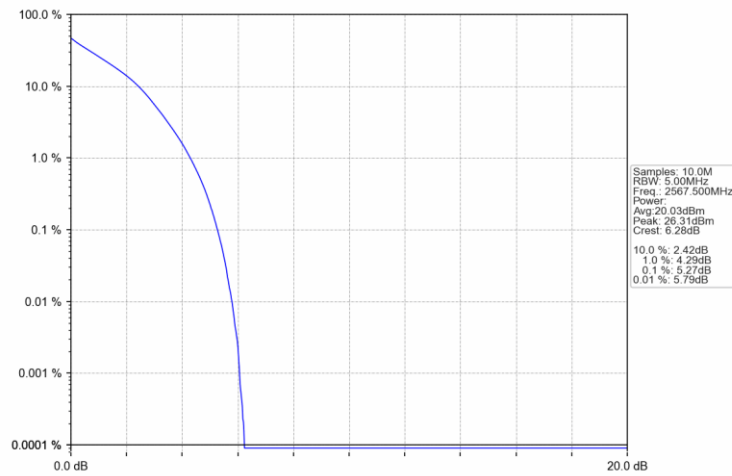


5.2 Test Graph

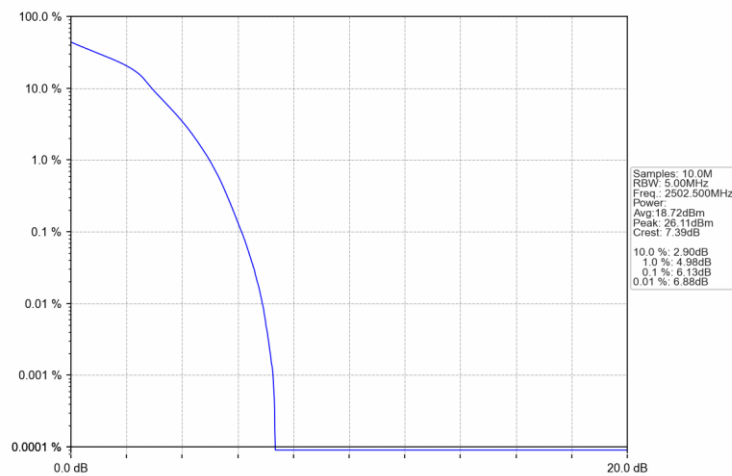
5.2.1 B7_5MHz



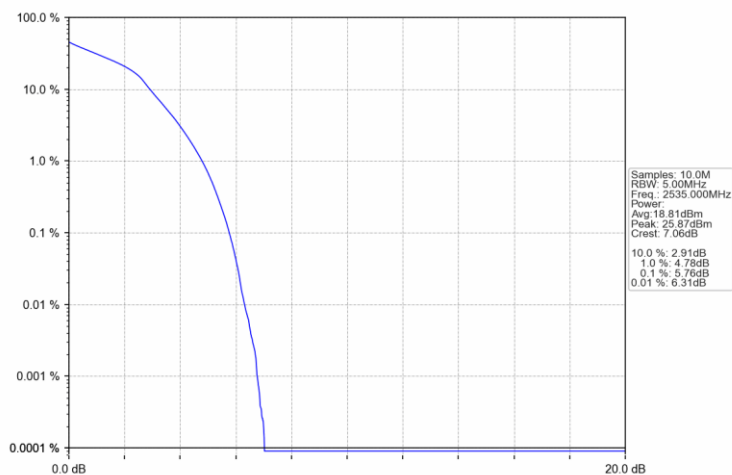
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



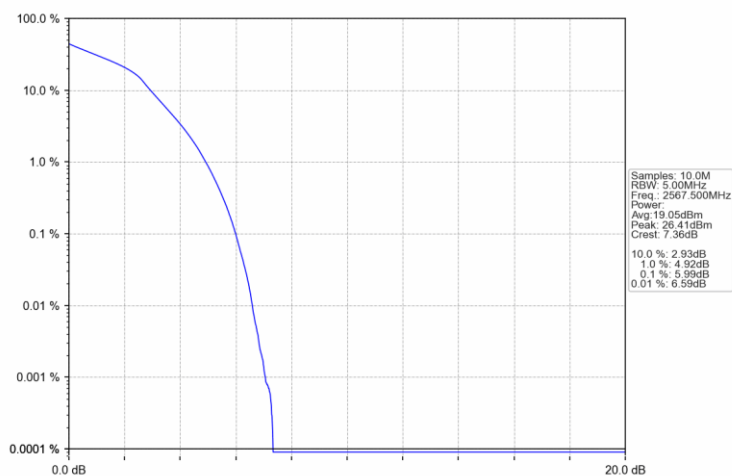
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV

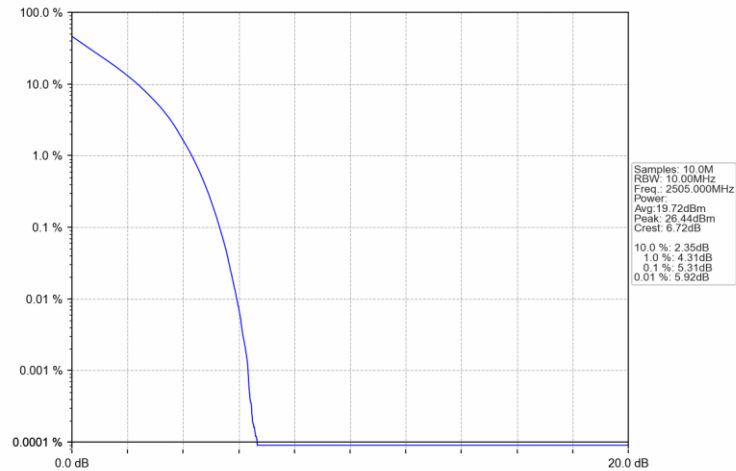


Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



5.2.2 B7_10MHz

Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV

