

Appendix-B LTE Band 71

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.01	22.08	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.06	22.13	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.08	22.15	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.13	21.2	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.49	21.56	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.49	21.56	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.38	21.45	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.4	20.47	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.02	22.09	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.32	22.39	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.2	22.27	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.27	21.34	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.43	21.5	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.31	21.38	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.4	21.47	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.38	20.45	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.35	22.42	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.32	22.39	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.43	22.5	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.46	21.53	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.47	21.54	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.73	21.8	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.75	21.82	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.48	20.55	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.34	22.41	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.26	22.33	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.18	22.25	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.23	21.3	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.39	21.46	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.46	21.53	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.43	21.5	34.77	PASS
and71	10MHz	16QAM	133172	50RB#0	21.28	20.35	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.15	22.22	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.61	22.68	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.29	22.36	34.77	PASS

Band71	10MHz	QPSK	133297	50RB#0	22.37	21.44	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.47	21.54	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.34	21.41	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.41	21.48	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.45	20.52	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.37	22.44	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.45	22.52	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.2	22.27	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.59	21.66	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.43	21.5	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.46	21.53	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.49	21.56	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.48	20.55	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.36	22.43	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.41	22.48	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.07	22.14	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.31	21.38	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.47	21.54	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.35	21.42	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.45	21.52	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.28	20.35	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.19	22.26	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.43	22.5	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.07	22.14	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.32	21.39	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.47	21.54	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.39	21.46	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.51	21.58	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.41	20.48	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.6	22.67	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.55	22.62	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.34	22.41	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.36	21.43	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.49	21.56	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.47	21.54	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.44	21.51	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.41	20.48	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.25	22.32	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.46	22.53	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.26	22.33	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.15	21.22	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.44	21.51	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.63	21.7	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.48	21.55	34.77	PASS

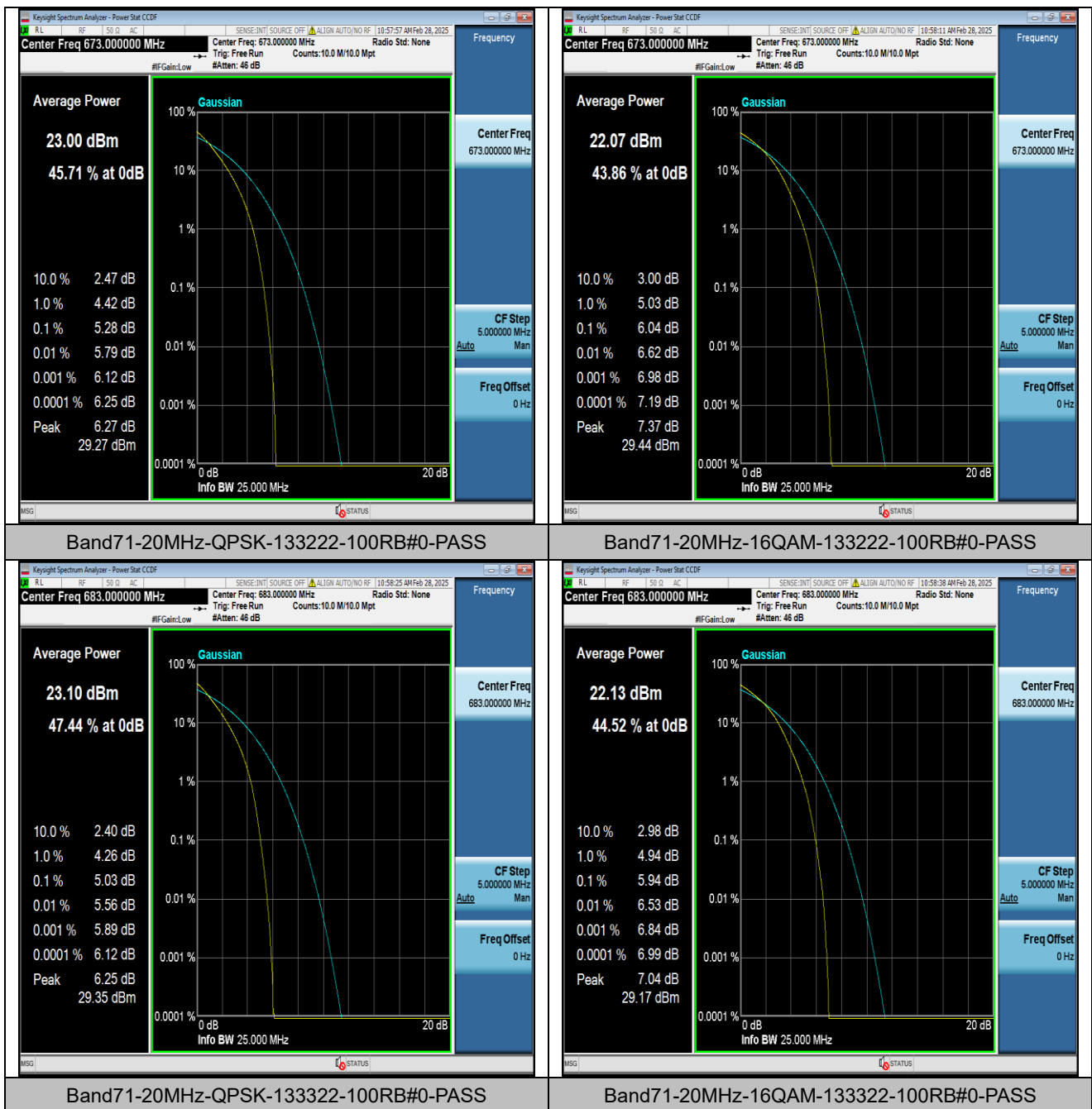
Band71	20MHz	16QAM	133222	100RB#0	21.29	20.36	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.07	22.14	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.53	22.6	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.93	22	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.35	21.42	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.43	21.5	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.69	21.76	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.39	21.46	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.21	20.28	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.03	22.1	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.64	22.71	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.04	22.11	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.41	21.48	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.42	21.49	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.75	21.82	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.49	21.56	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.35	20.42	34.77	PASS

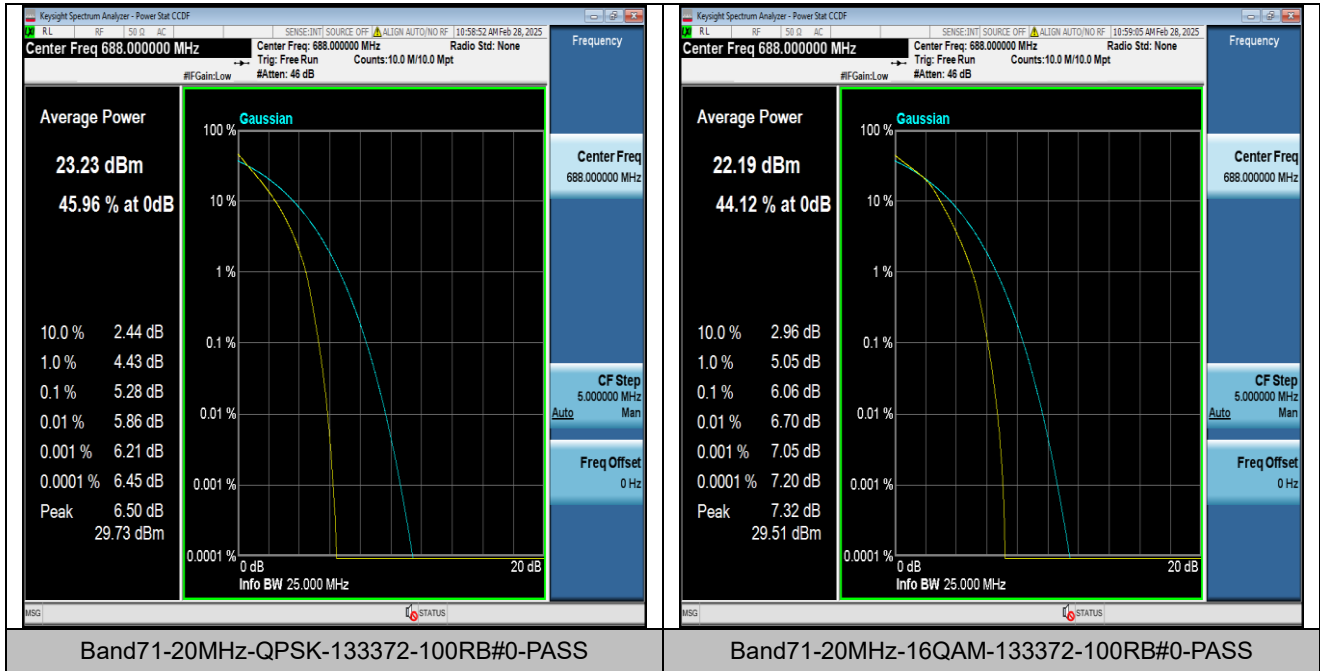
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.28	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.04	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.03	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.94	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.28	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.06	13	PASS

Test Graphs



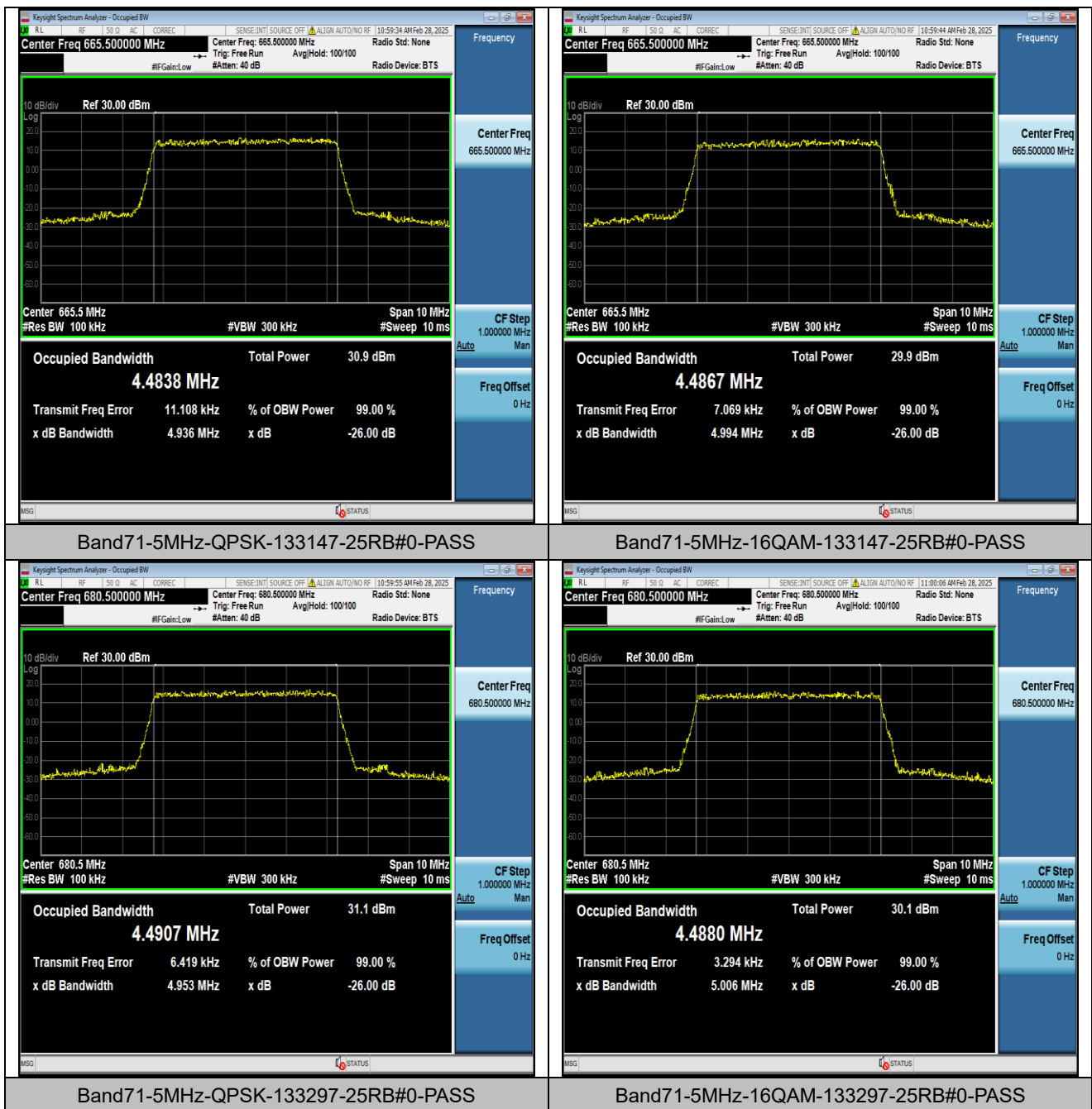


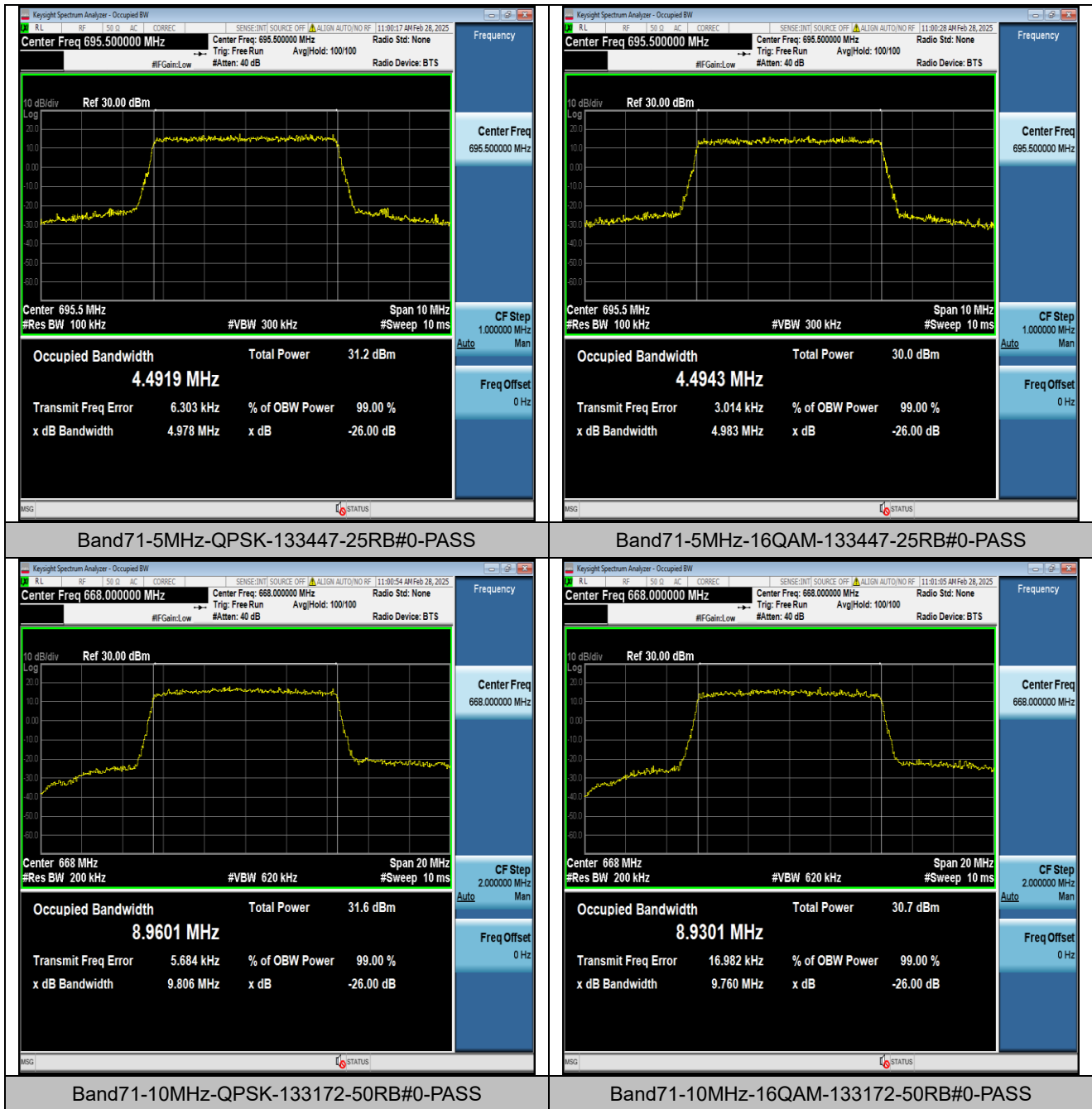
26dB Bandwidth and Occupied Bandwidth

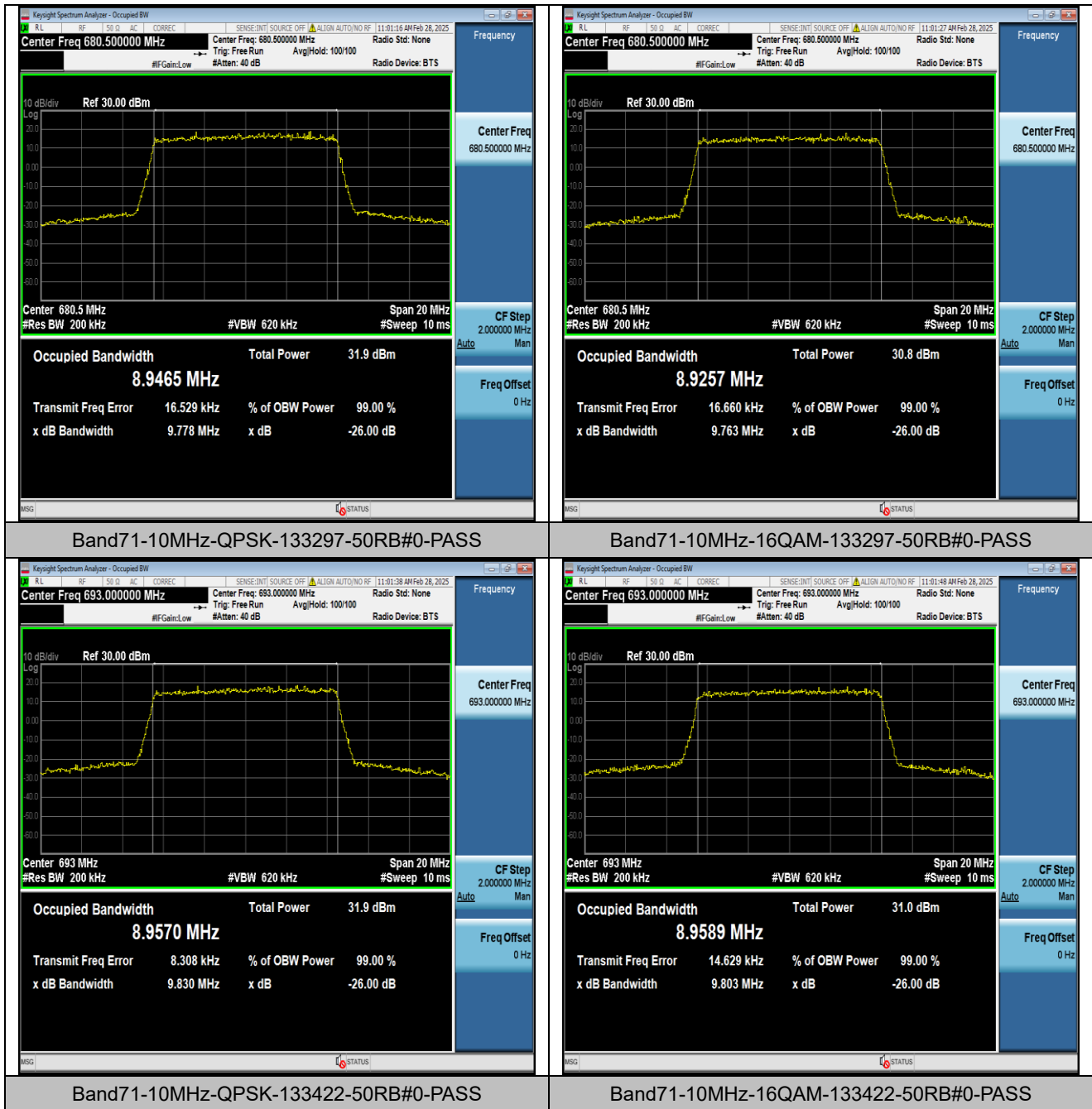
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4838	4.936	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4867	4.994	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4907	4.953	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4880	5.006	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4919	4.978	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4943	4.983	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9601	9.806	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9301	9.760	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9465	9.778	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9257	9.763	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9570	9.830	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9589	9.803	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.450	14.69	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.455	14.74	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.427	14.67	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.394	14.63	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.483	14.71	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.492	14.75	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.902	19.35	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.880	19.38	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.898	19.28	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.787	19.34	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.957	19.40	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.880	19.43	PASS

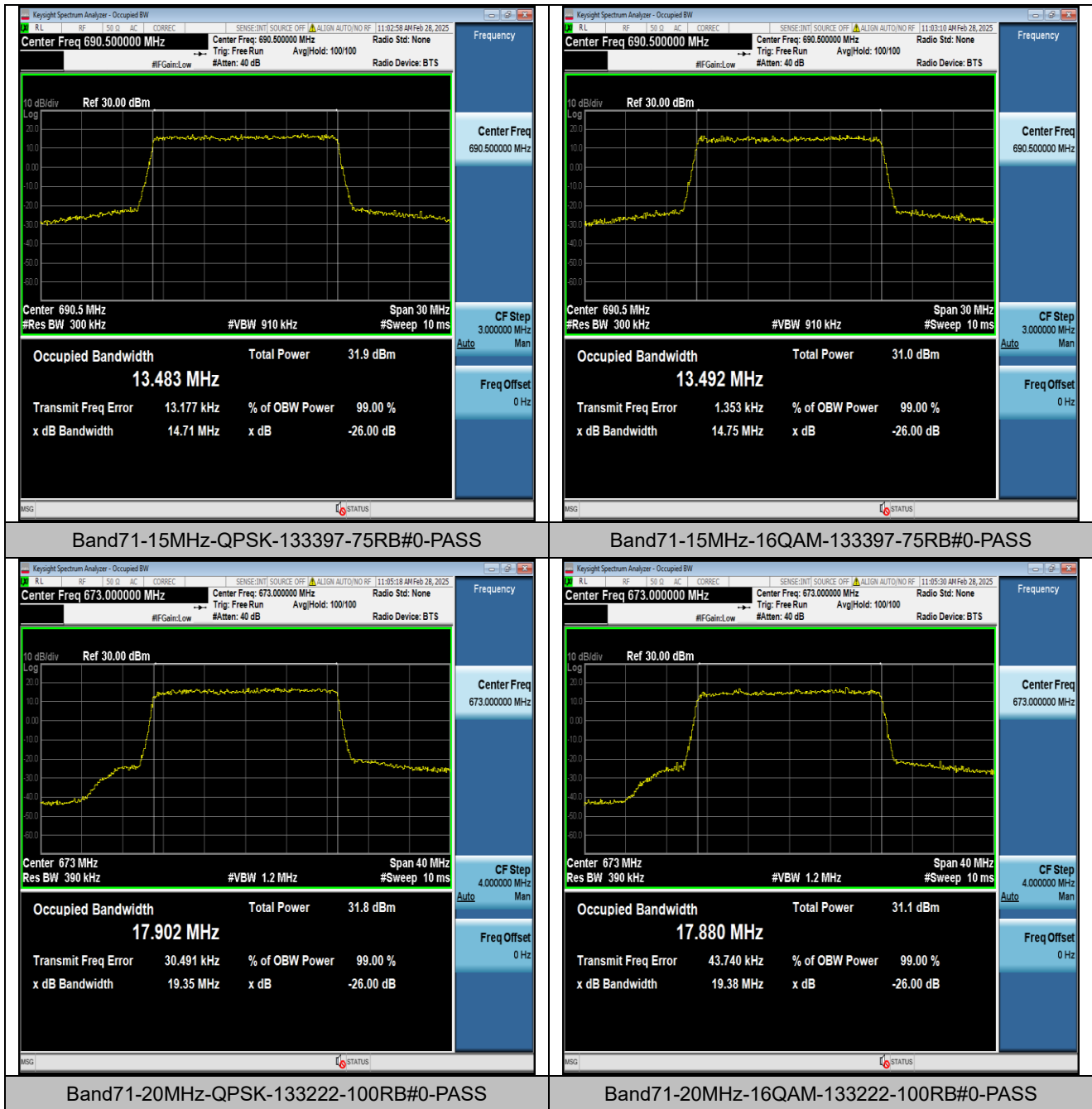
Test Graphs

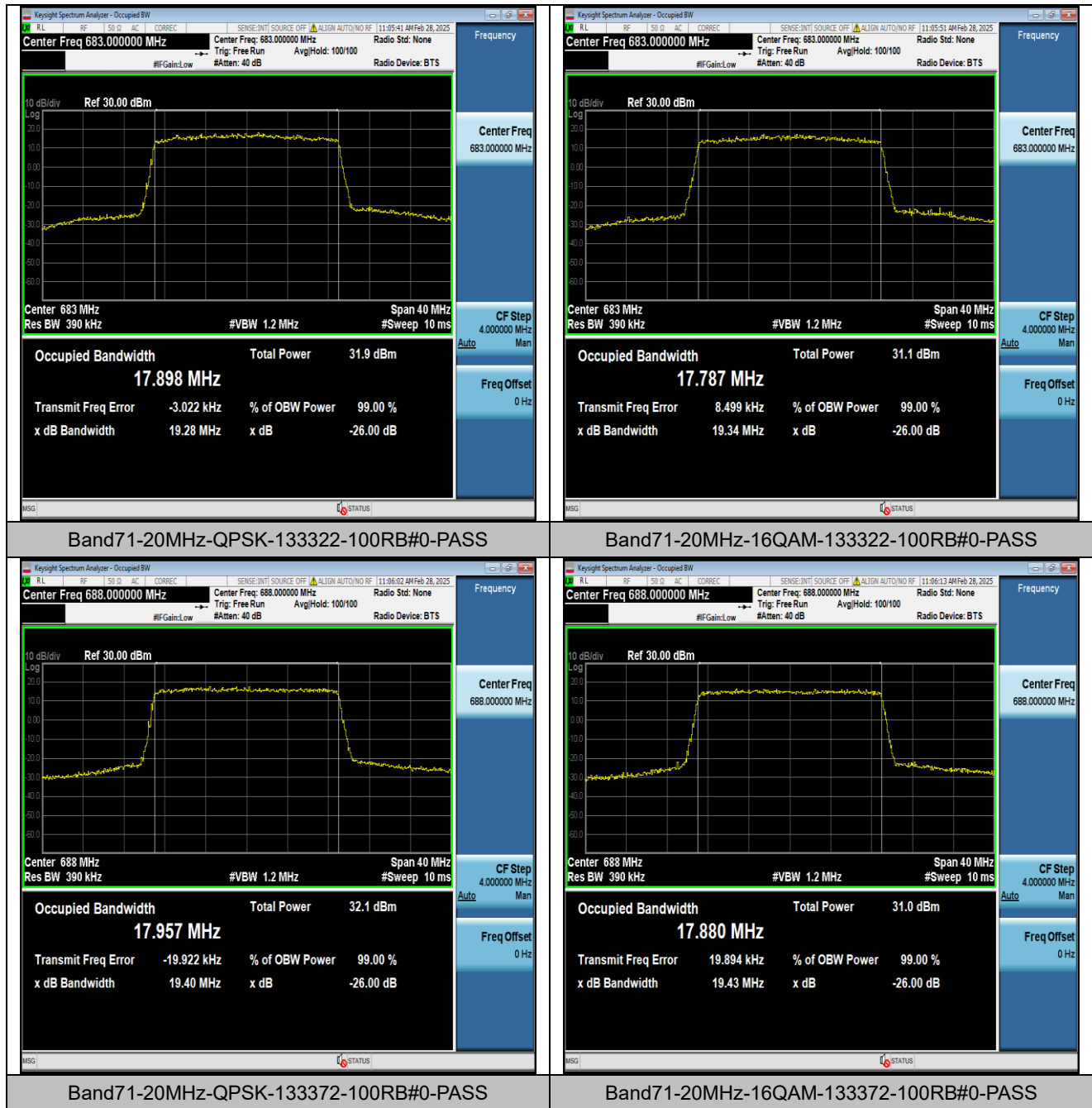






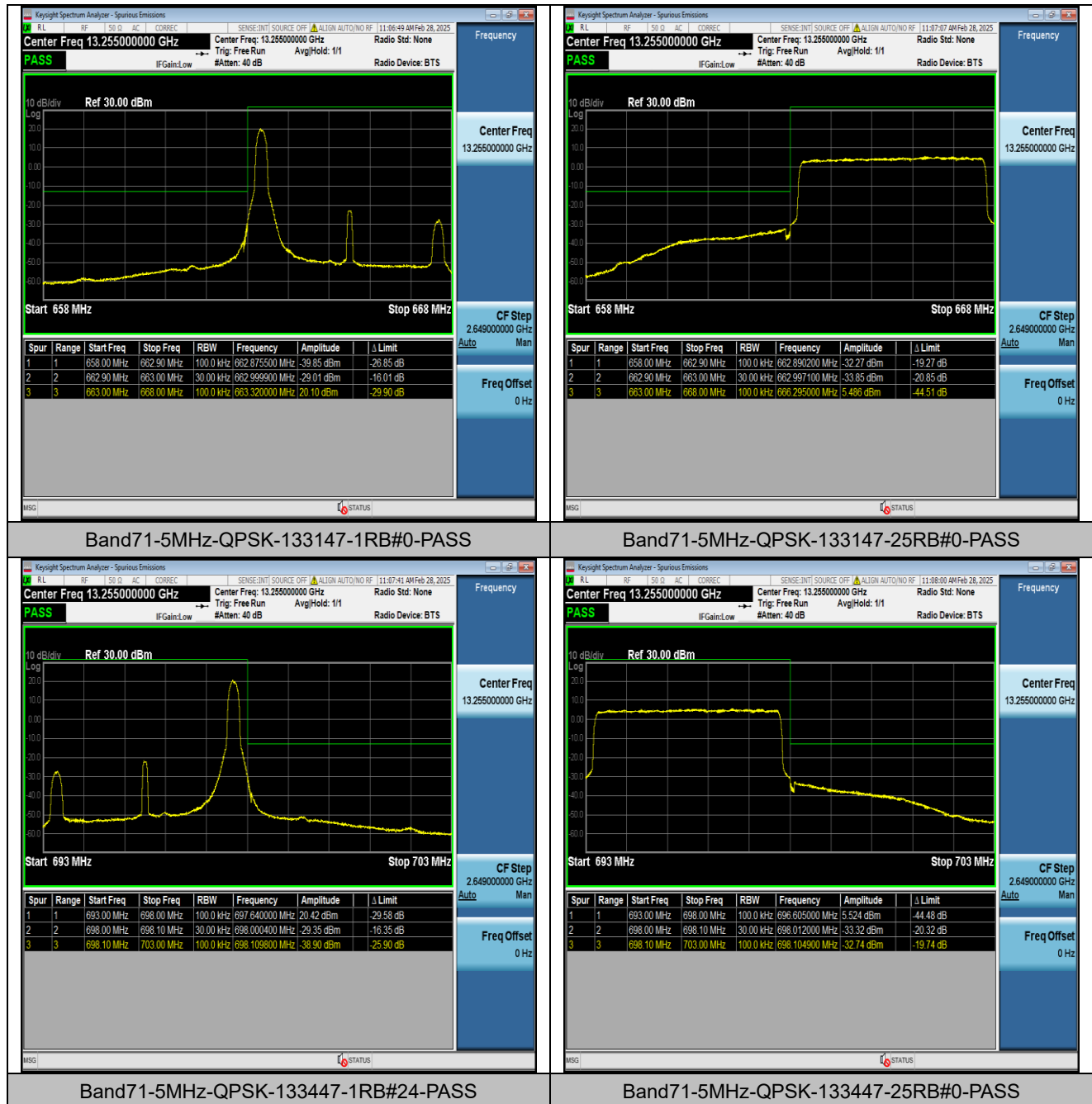


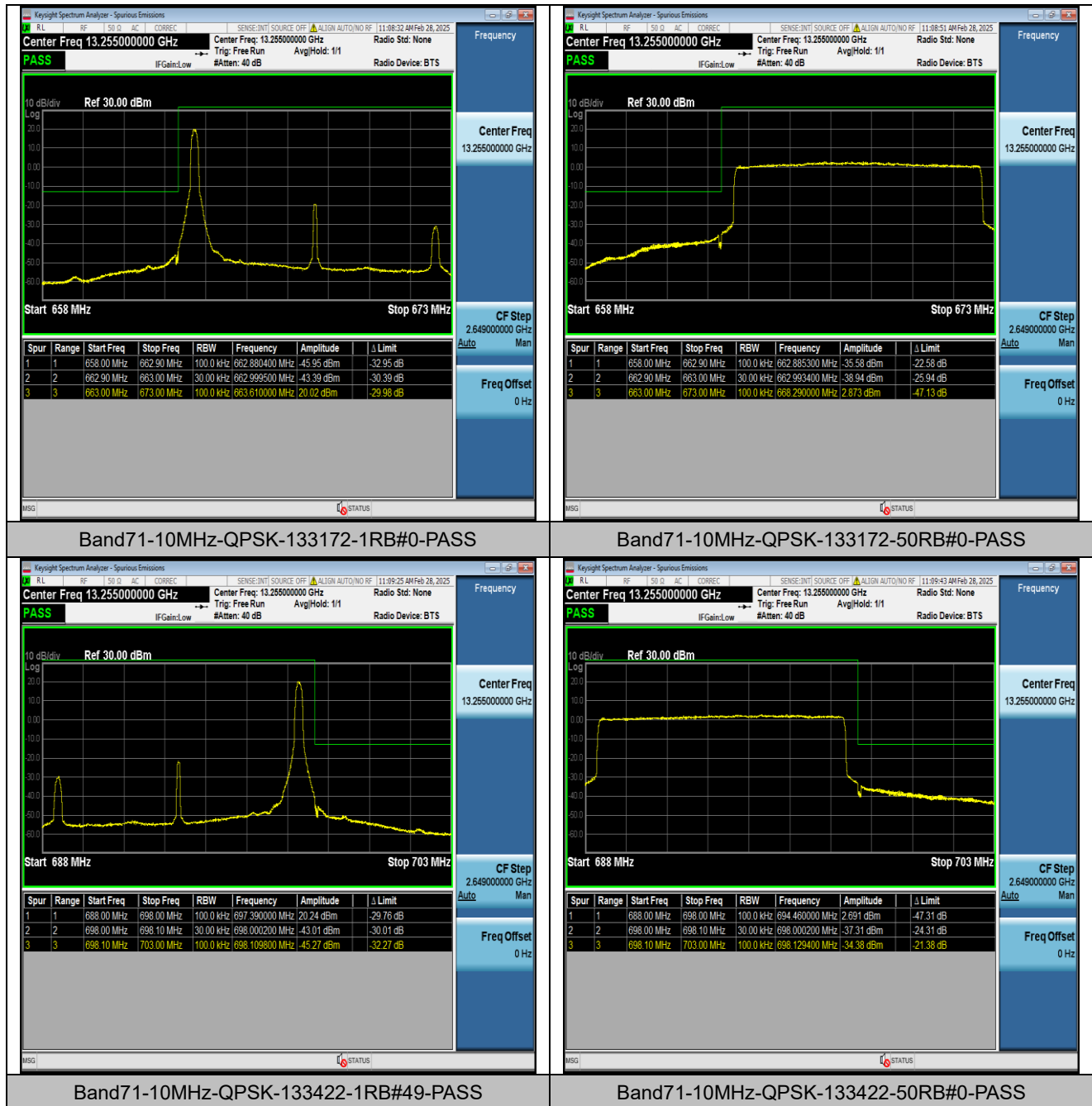


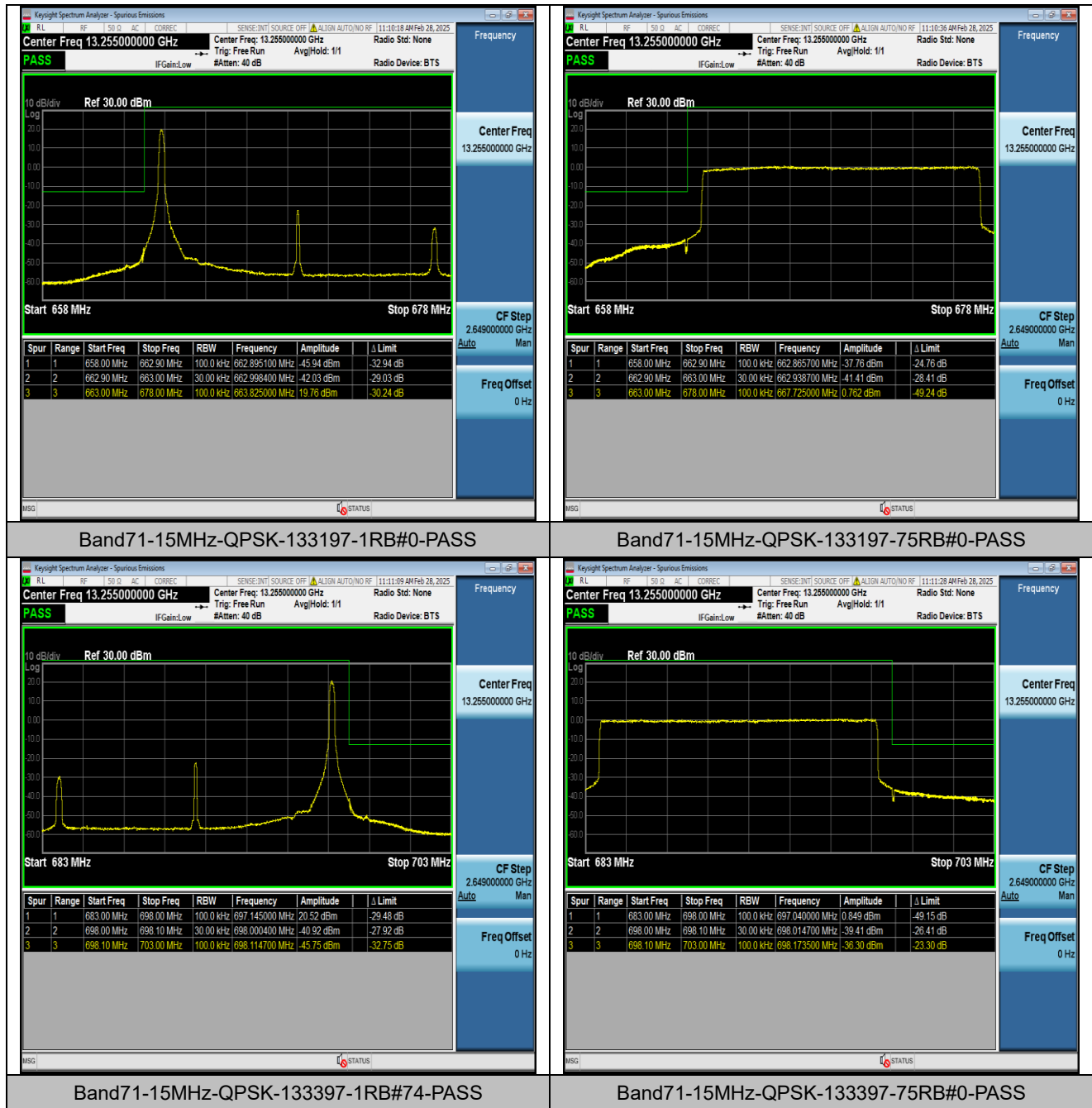


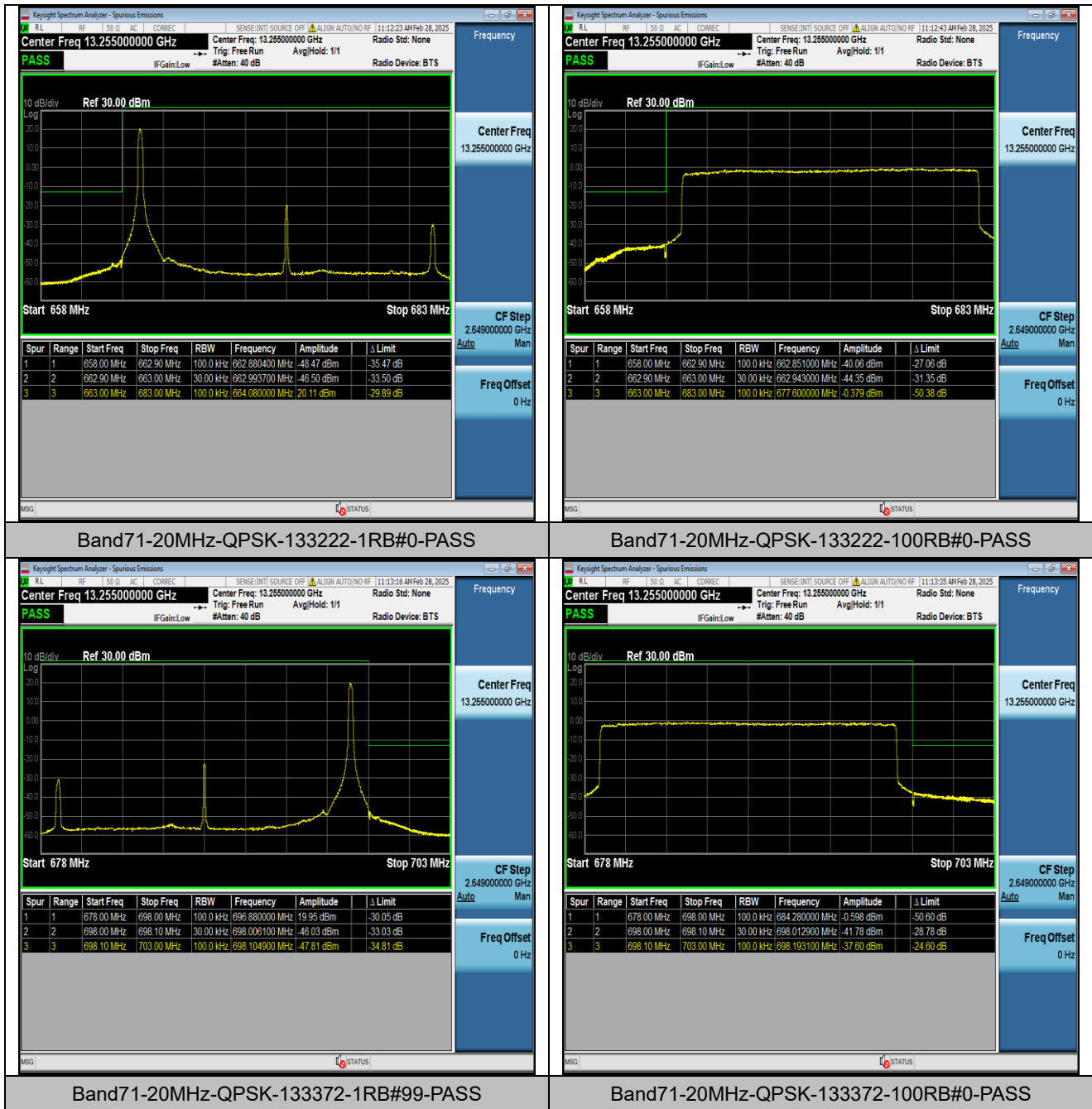
Band Edge

Test Graphs



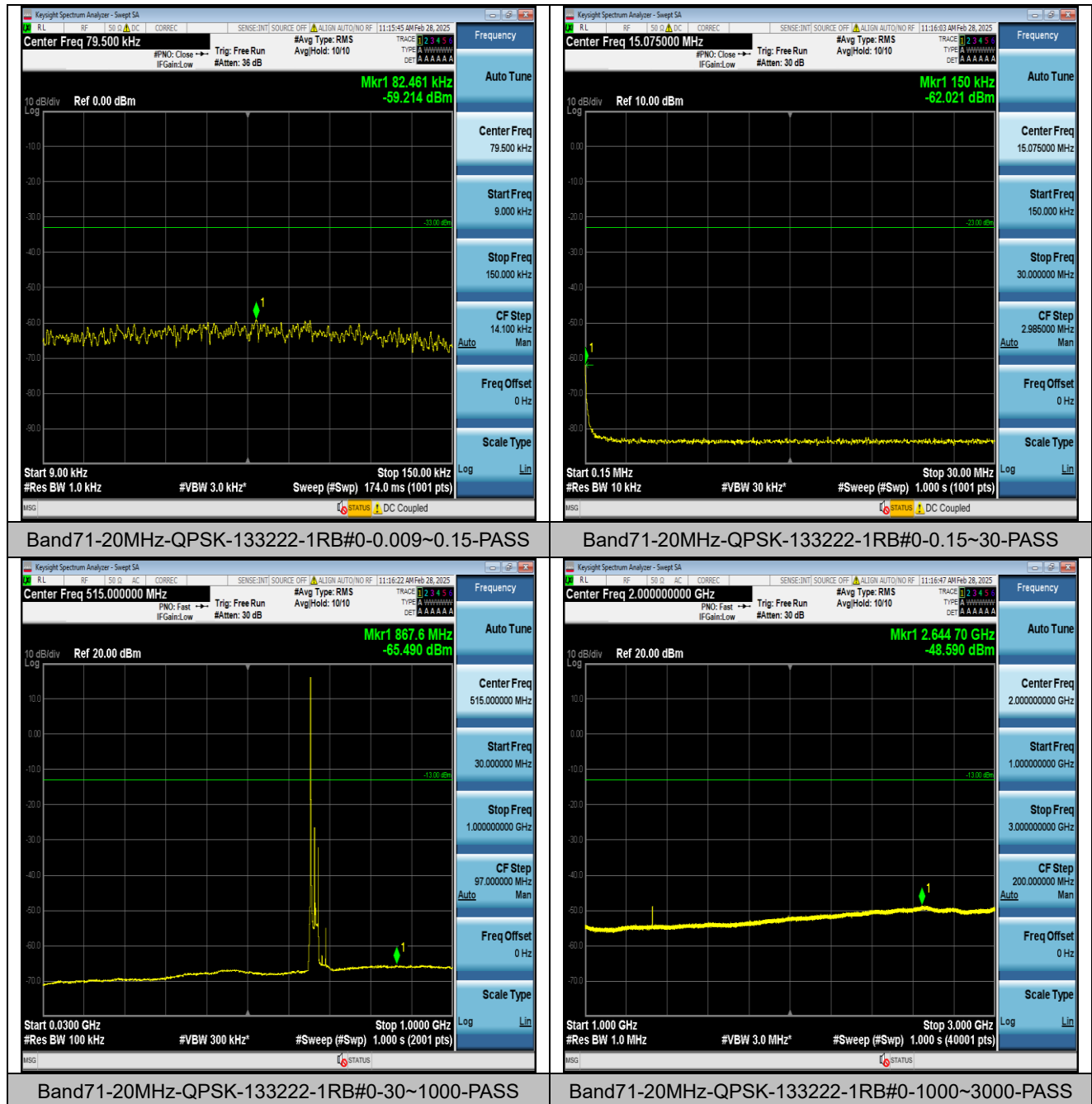


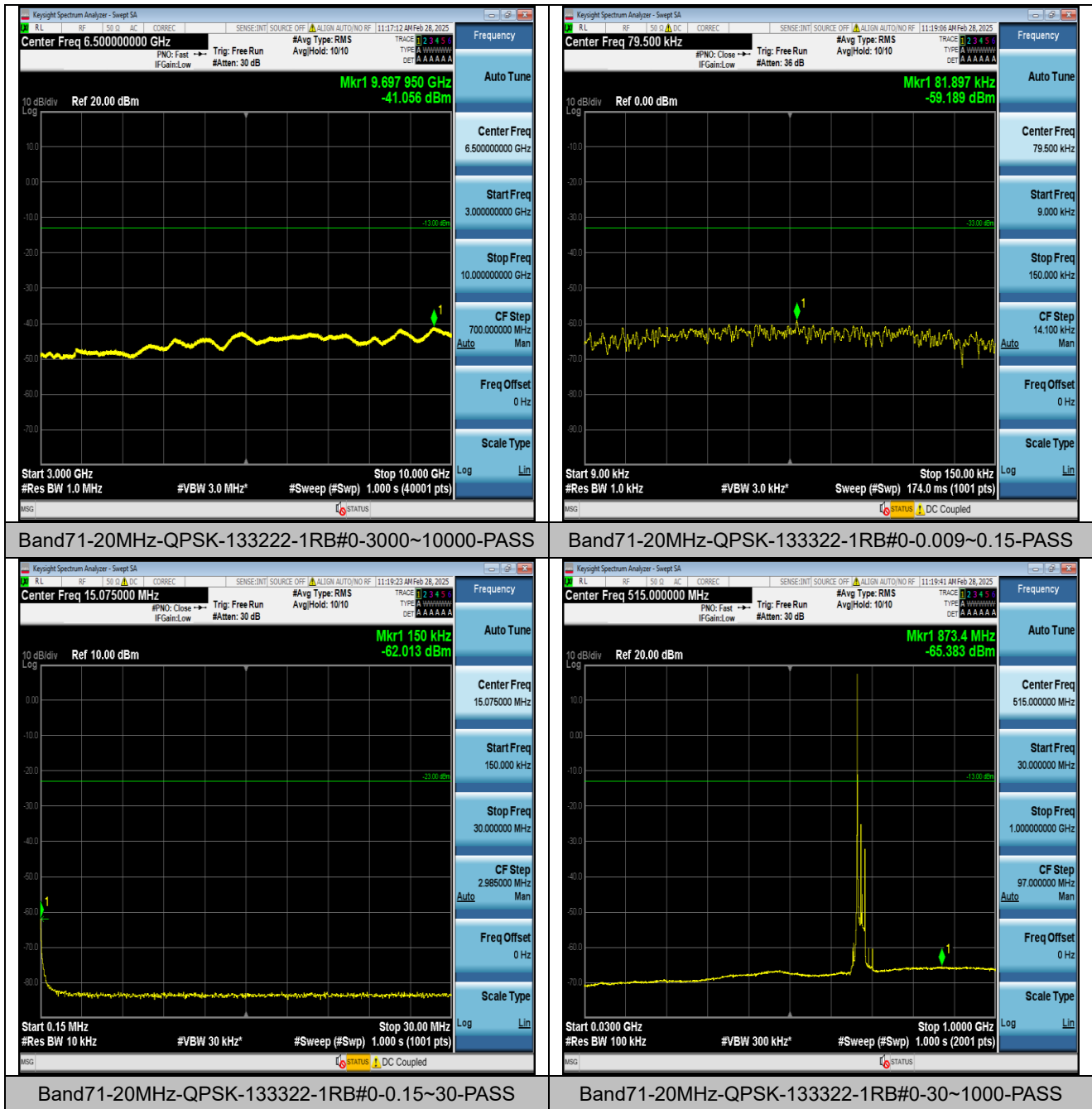


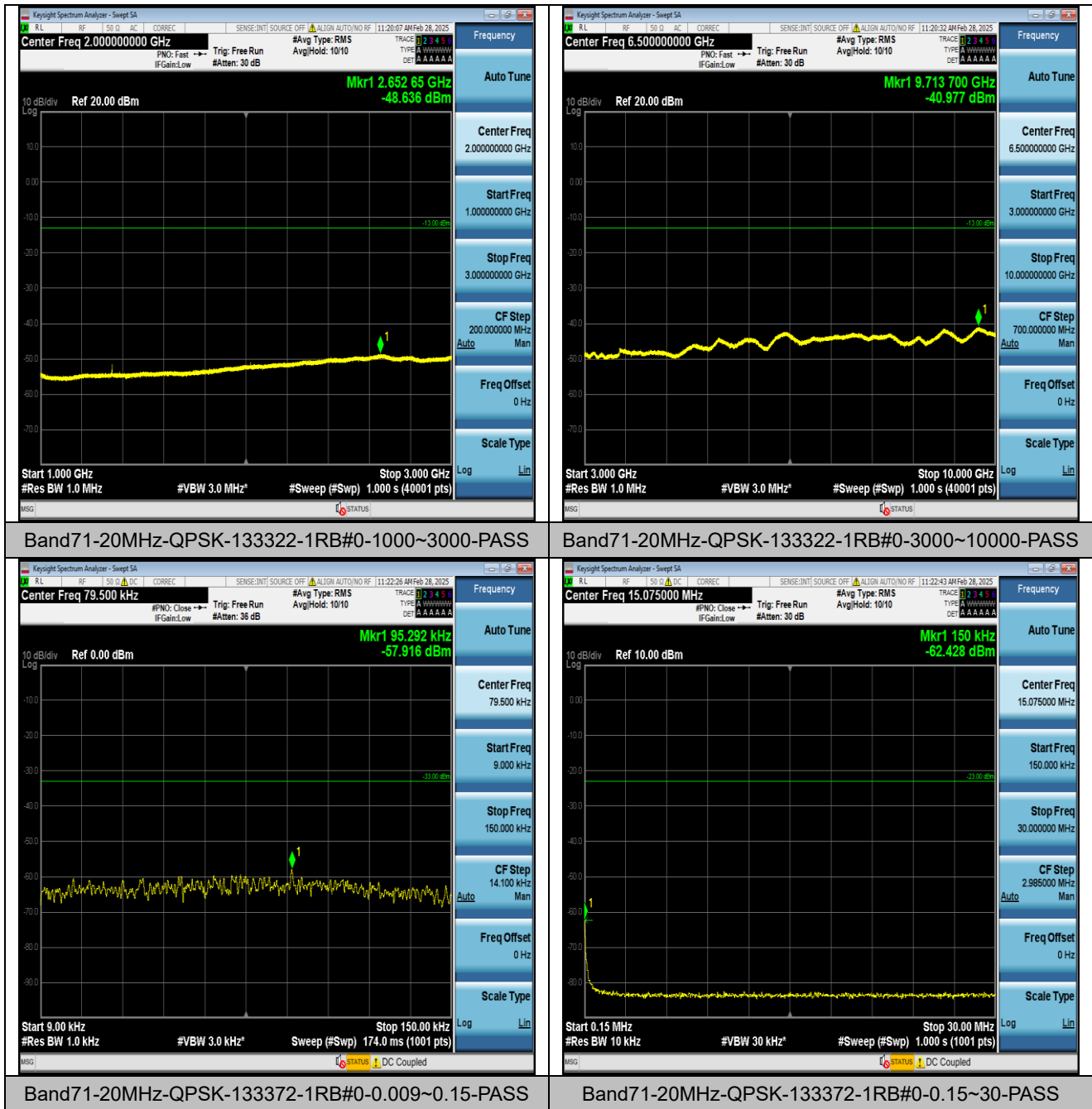


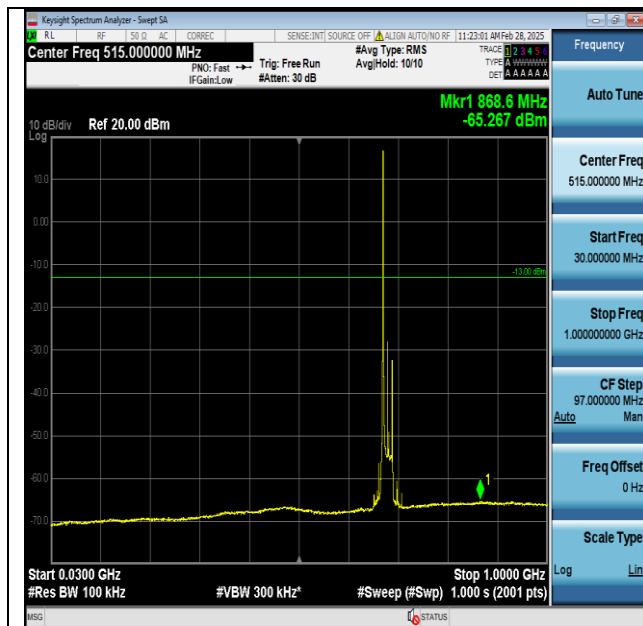
Conducted Spurious Emission

Test Graphs

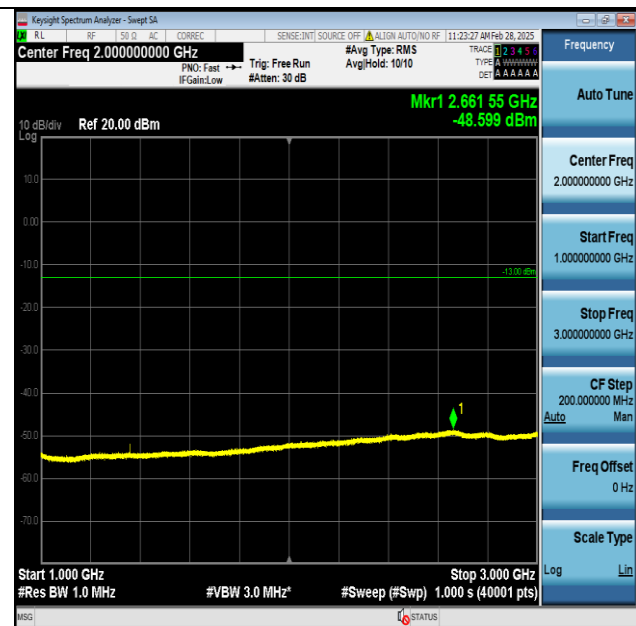




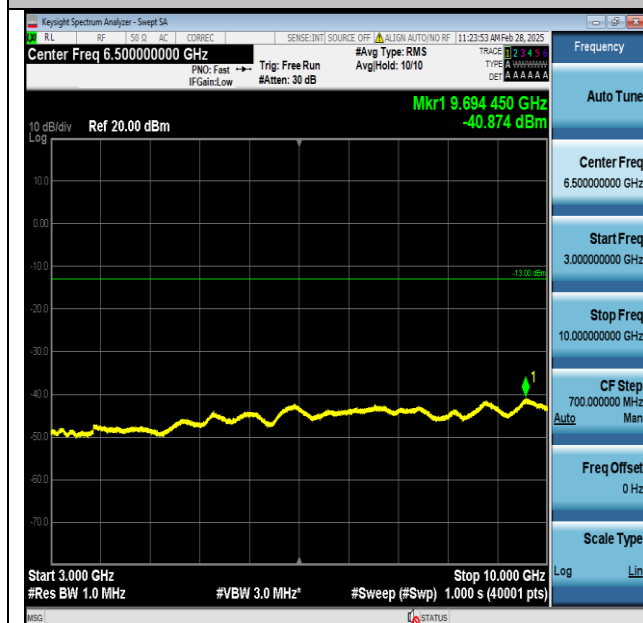




Band71-20MHz-QPSK-133372-1RB#0-30~1000-PASS



Band71-20MHz-QPSK-133372-1RB#0-1000~3000-PASS



Band71-20MHz-QPSK-133372-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-2.30	-0.003367	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.10	-0.003075	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.60	-0.003807	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.90	-0.002782	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.10	-0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-2.80	-0.004100	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-0.90	-0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-2.90	-0.004246	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-1.60	-0.002343	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-2.30	-0.003367	PASS

~The End~