

Appendix-A 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	23.52	20.47	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.84	20.79	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.67	20.62	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.96	19.91	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.09	20.04	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.99	19.94	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.53	19.48	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	22.01	18.96	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.88	20.83	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.29	21.24	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.88	20.83	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	23.02	19.97	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	23.15	20.1	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.9	19.85	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.8	19.75	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.23	19.18	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.89	20.84	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	24.17	21.12	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.86	20.81	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	23.07	20.02	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.73	19.68	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.02	19.97	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.49	19.44	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.96	18.91	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.72	20.67	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.02	20.97	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.82	20.77	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	23.02	19.97	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.06	20.01	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.51	19.46	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.66	19.61	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.97	18.92	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.97	20.92	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	24.03	20.98	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.98	20.93	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	23.1	20.05	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	23.08	20.03	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#24	22.88	19.83	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.88	19.83	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	22.12	19.07	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.17	21.12	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	24.41	21.36	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.02	20.97	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	23.15	20.1	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.51	20.46	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.75	20.7	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.9	19.85	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	22.1	19.05	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.54	20.49	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.92	20.87	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.78	20.73	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	23.02	19.97	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	23.08	20.03	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.9	19.85	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.98	19.93	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	22.02	18.97	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.95	20.9	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.01	20.96	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.72	20.67	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	23.07	20.02	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.93	19.88	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.24	20.19	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	23.11	20.06	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	22.21	19.16	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.04	20.99	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	24.14	21.09	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	24	20.95	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	23.24	20.19	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.09	20.04	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.92	19.87	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.91	19.86	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	22.24	19.19	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.34	20.29	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	24.12	21.07	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.86	20.81	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	23.09	20.04	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.91	19.86	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.64	19.59	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.87	19.82	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	22.02	18.97	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.83	20.78	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.34	21.29	34.77	PASS

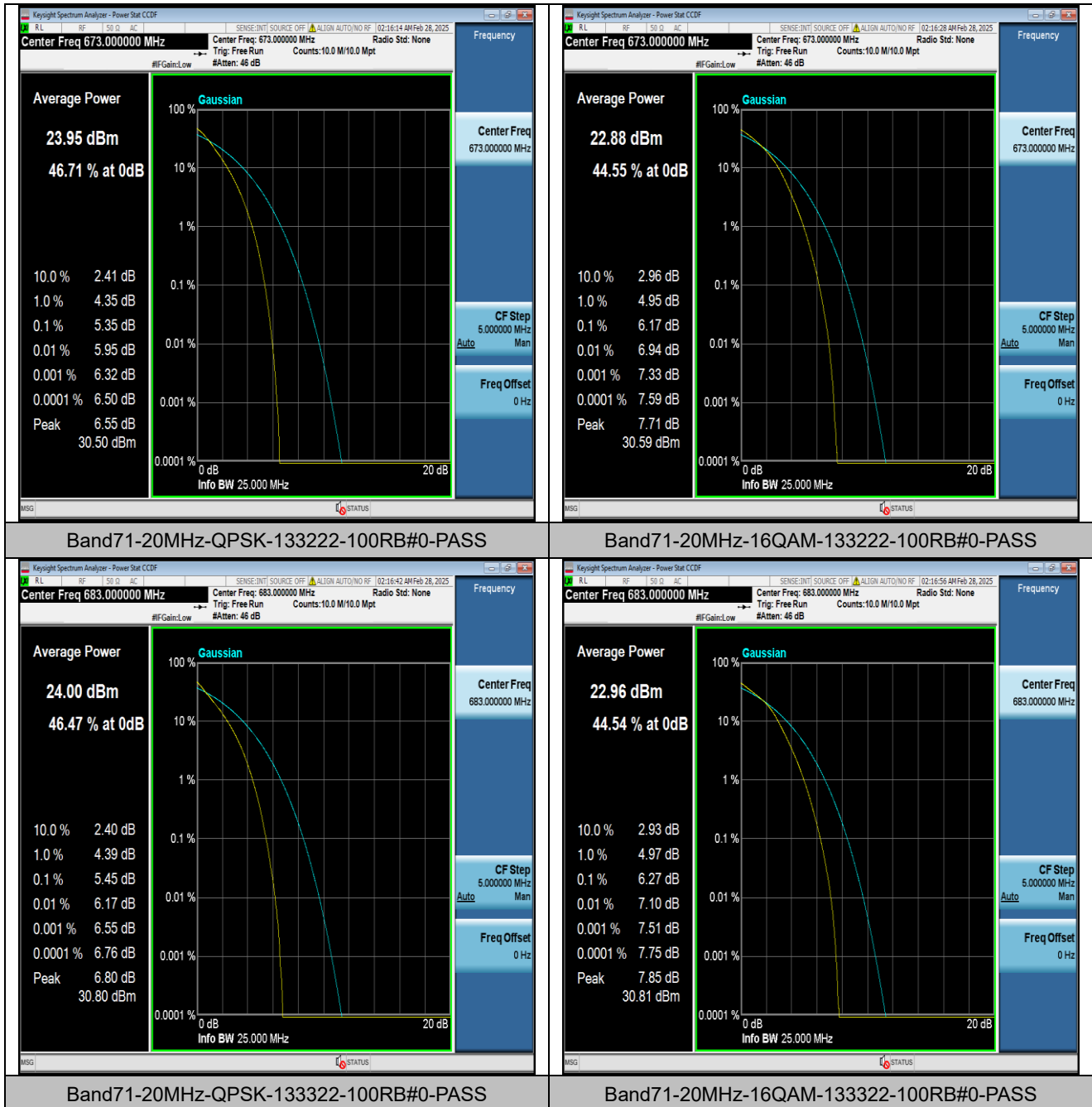
Band71	20MHz	QPSK	133322	1RB#99	23.84	20.79	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	23.03	19.98	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.91	19.86	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	23.29	20.24	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.02	19.97	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.95	18.9	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.88	20.83	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	24.3	21.25	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.7	20.65	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	23.15	20.1	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	23.12	20.07	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.43	20.38	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.84	19.79	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	22.18	19.13	34.77	PASS

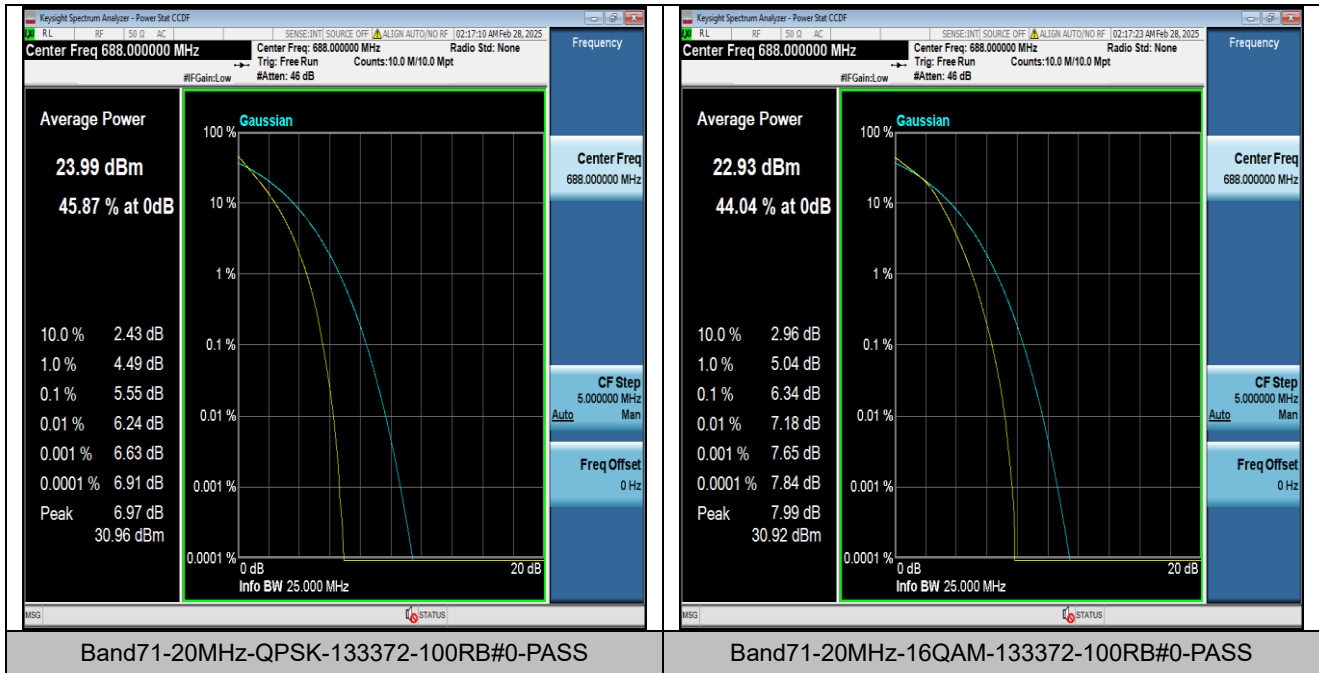
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.35	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.17	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.45	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.27	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.55	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.34	13	PASS

Test Graphs



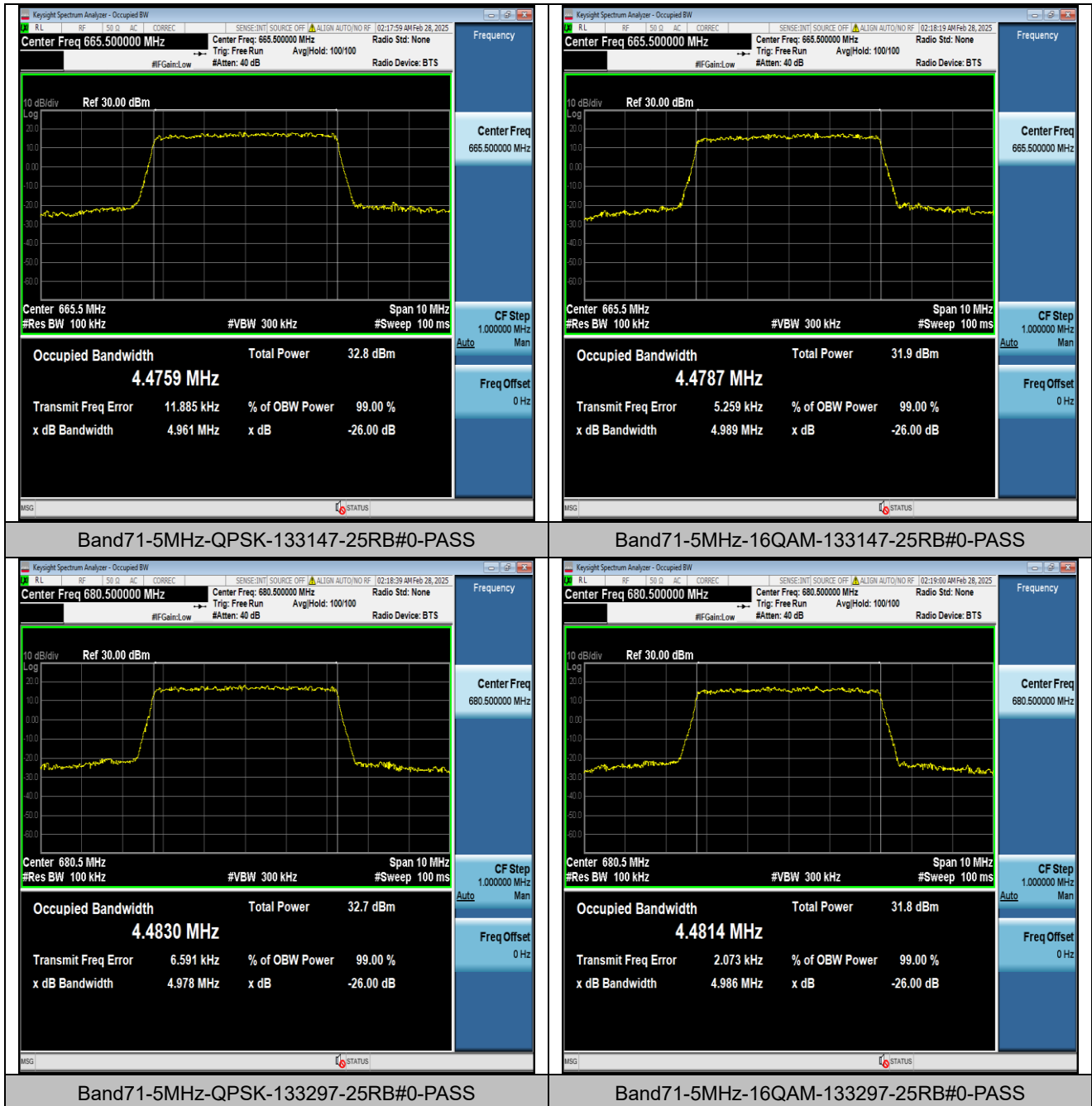


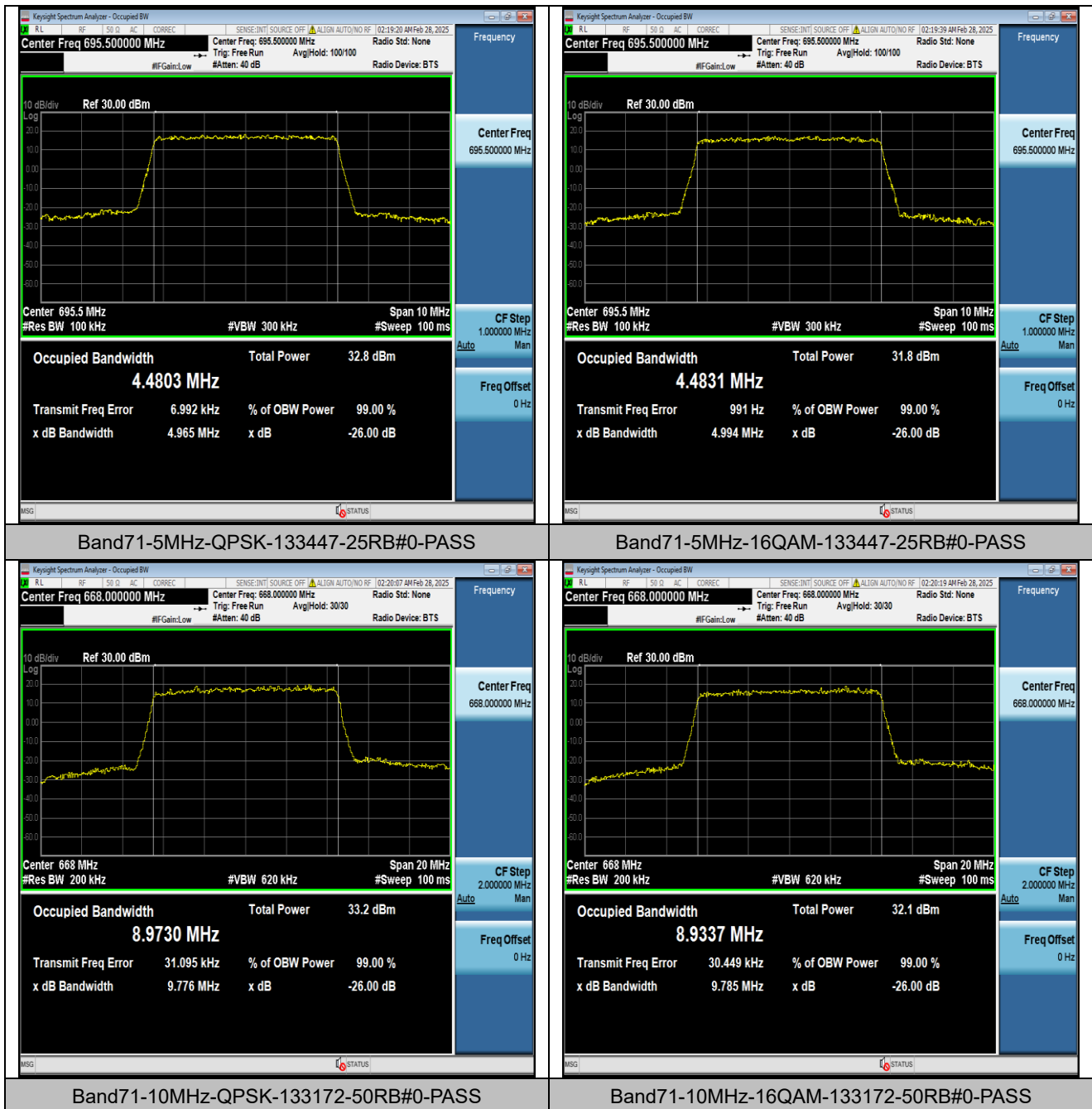
26dB Bandwidth and Occupied Bandwidth

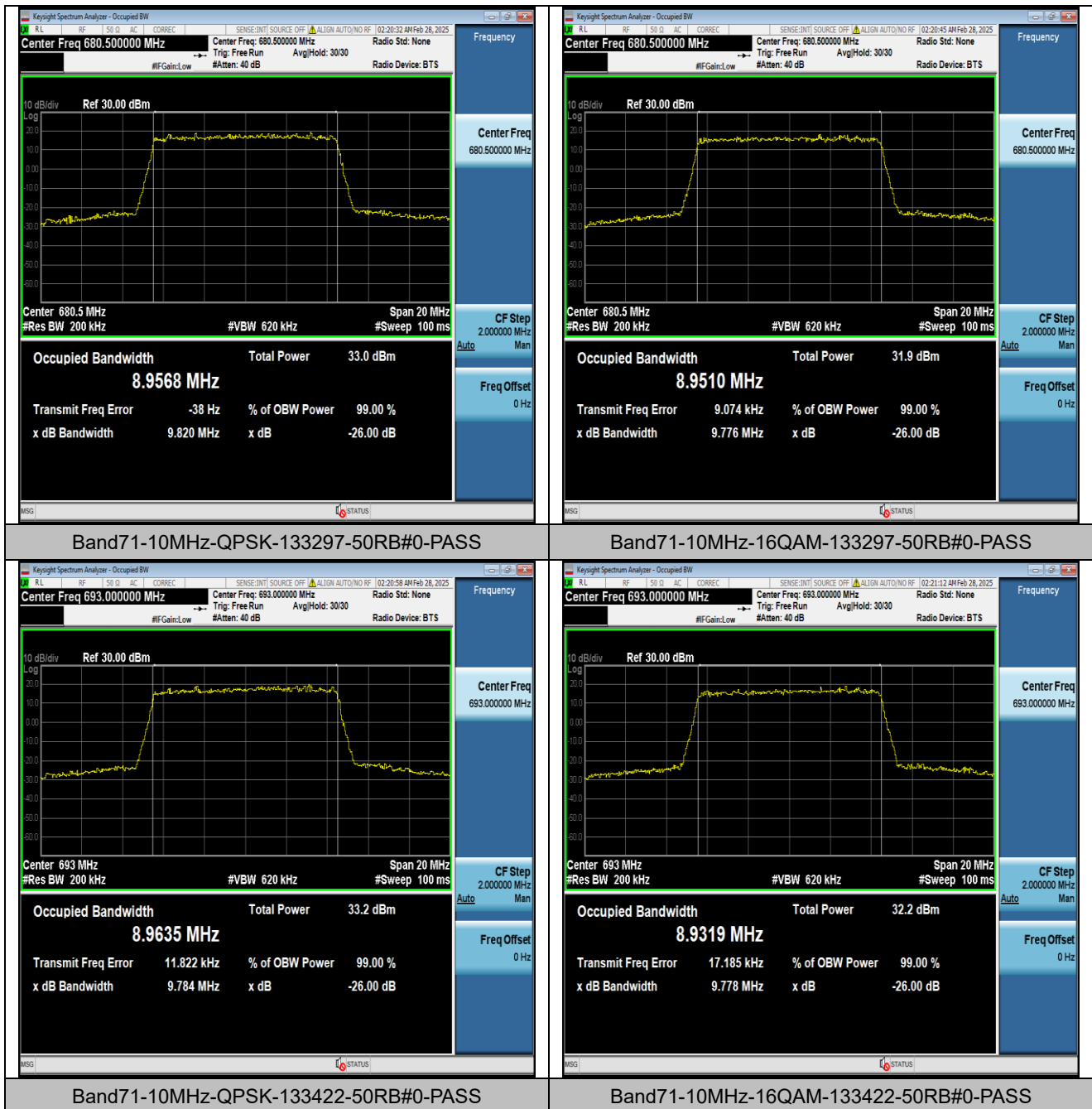
Test Result

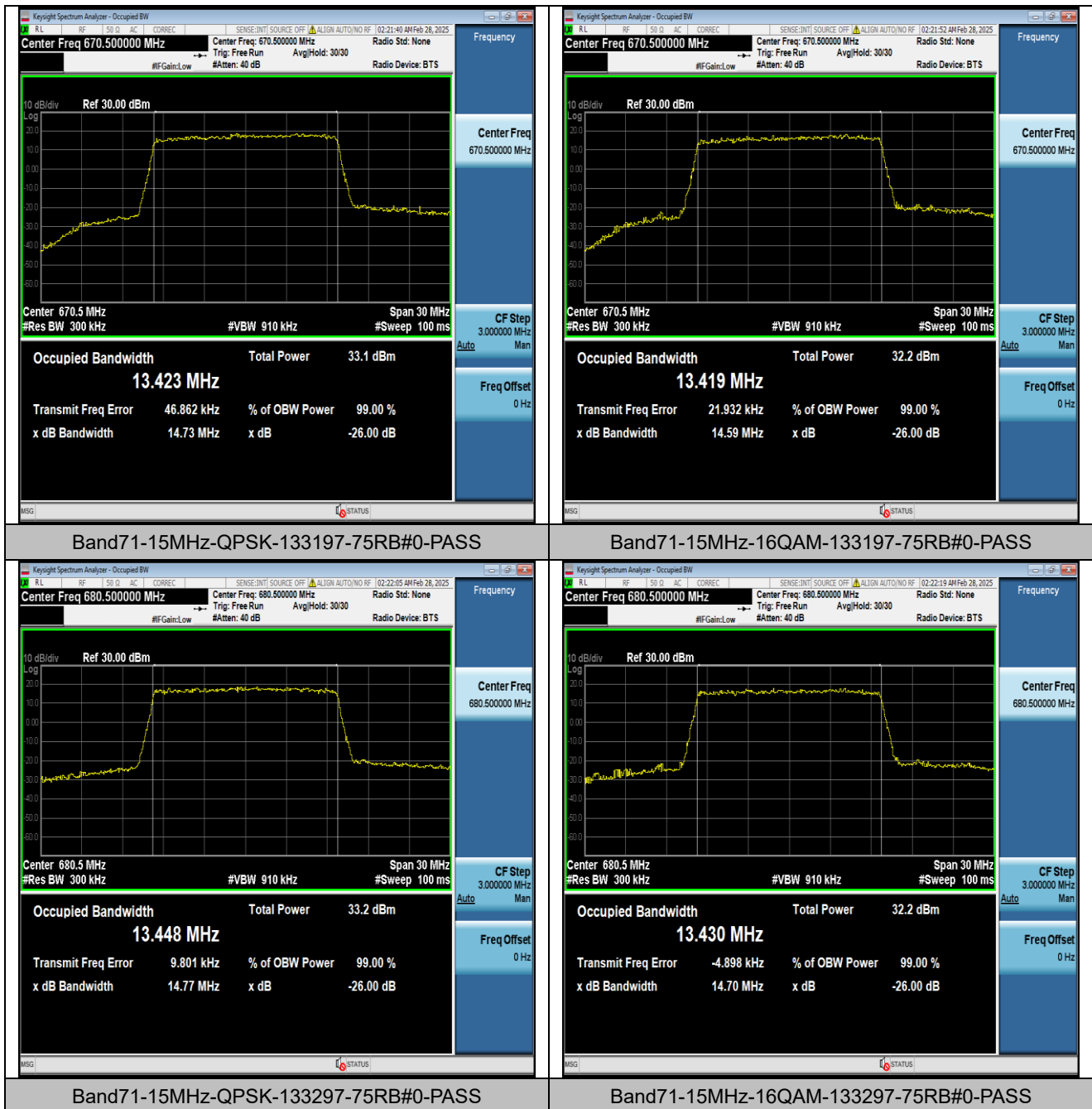
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4759	4.961	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4787	4.989	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4830	4.978	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4814	4.986	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4803	4.965	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4831	4.994	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9730	9.776	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9337	9.785	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9568	9.820	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9510	9.776	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9635	9.784	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9319	9.778	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.423	14.73	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.419	14.59	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.448	14.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.430	14.70	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.471	14.69	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.452	14.80	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.881	19.49	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.847	19.39	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.961	19.46	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.893	19.46	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.958	19.49	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.911	19.41	PASS

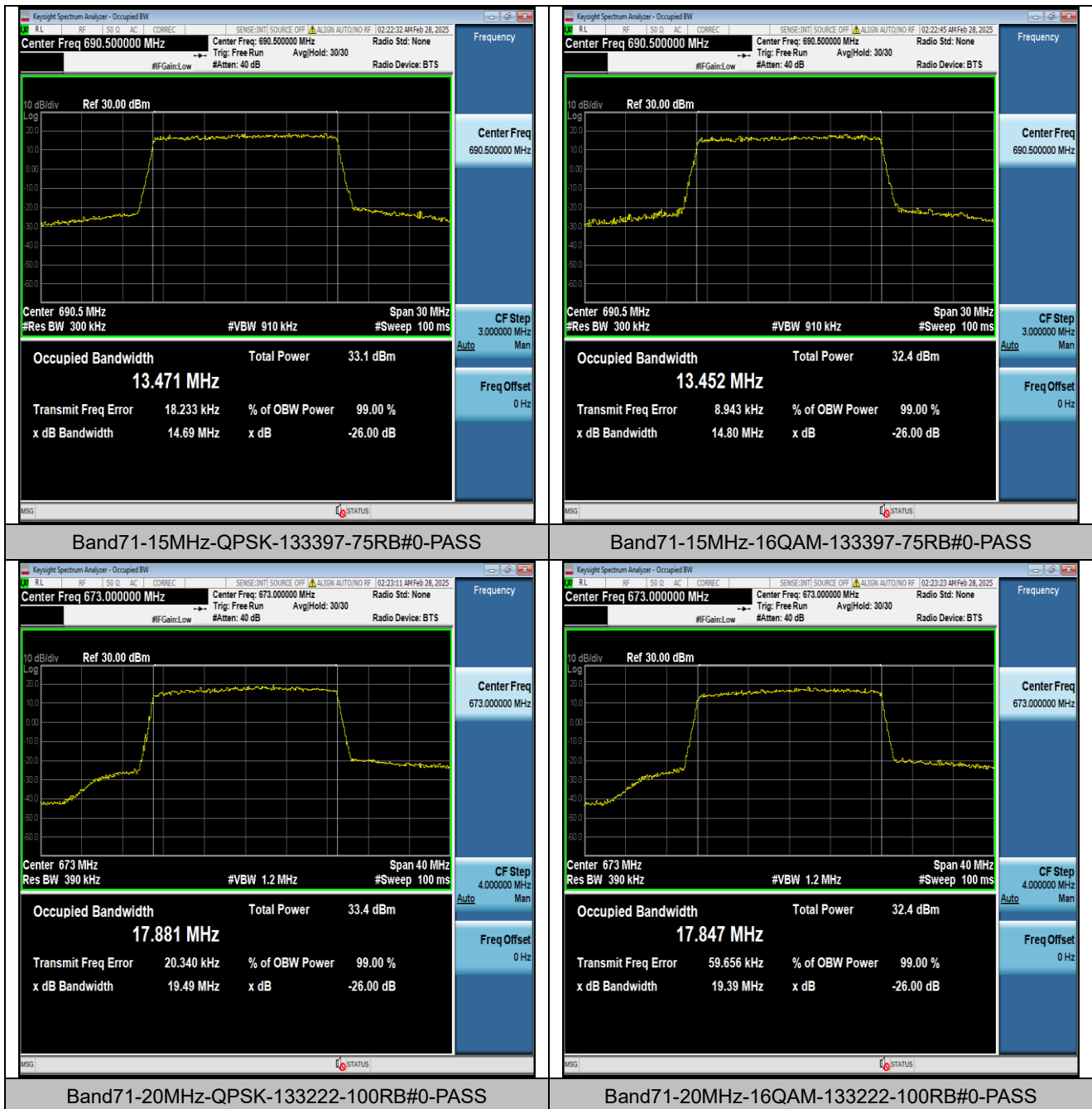
Test Graphs

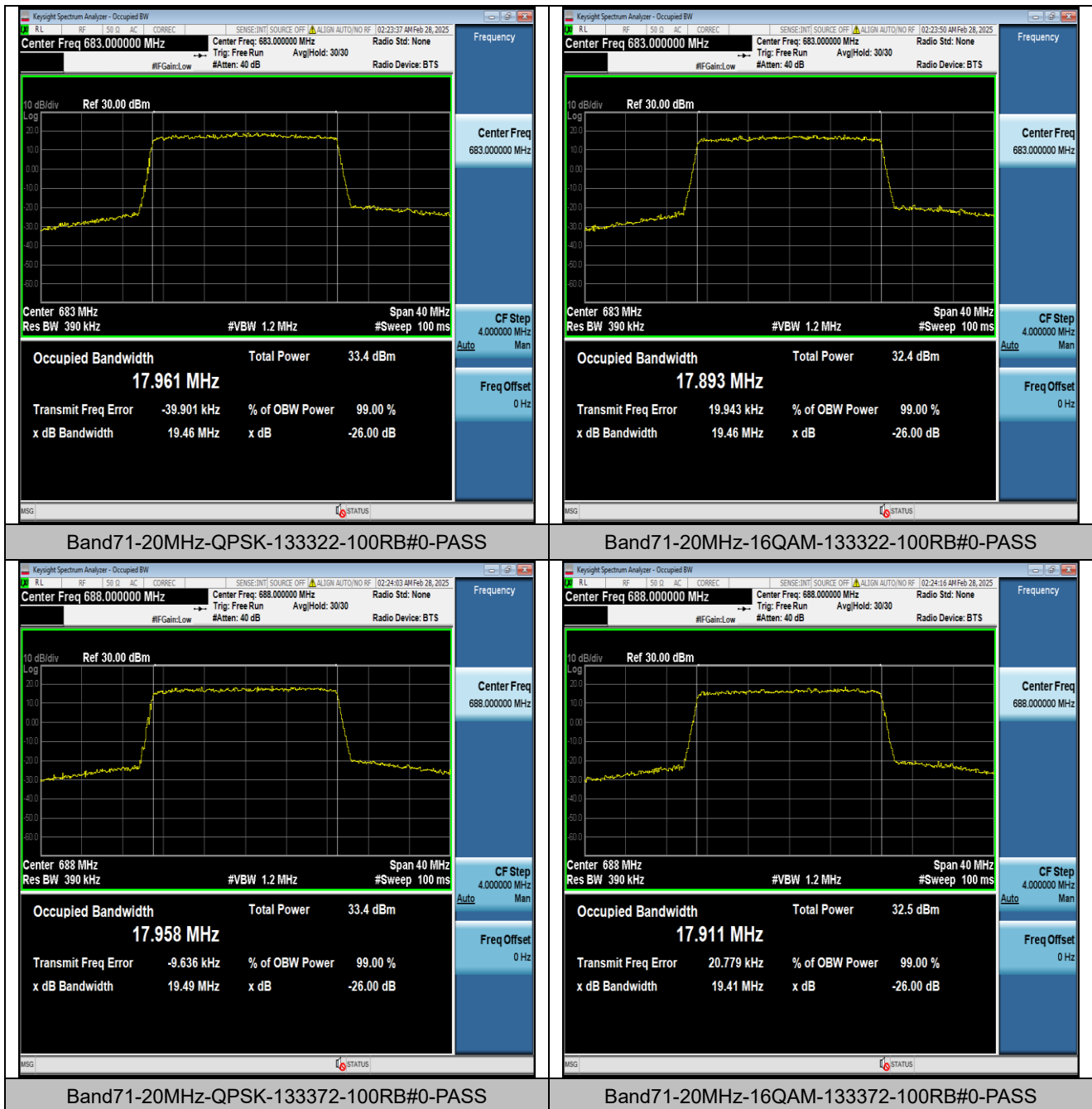






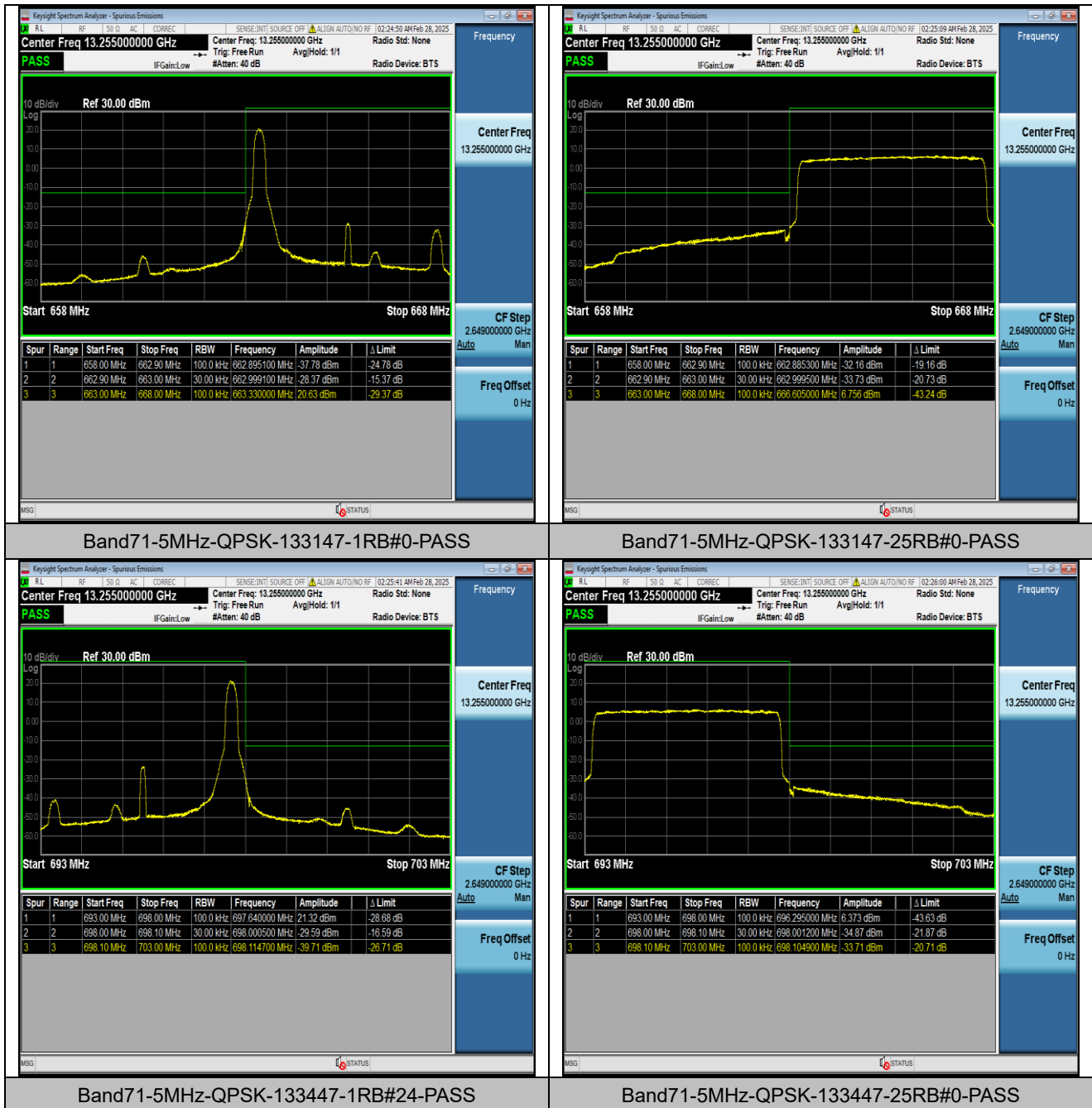


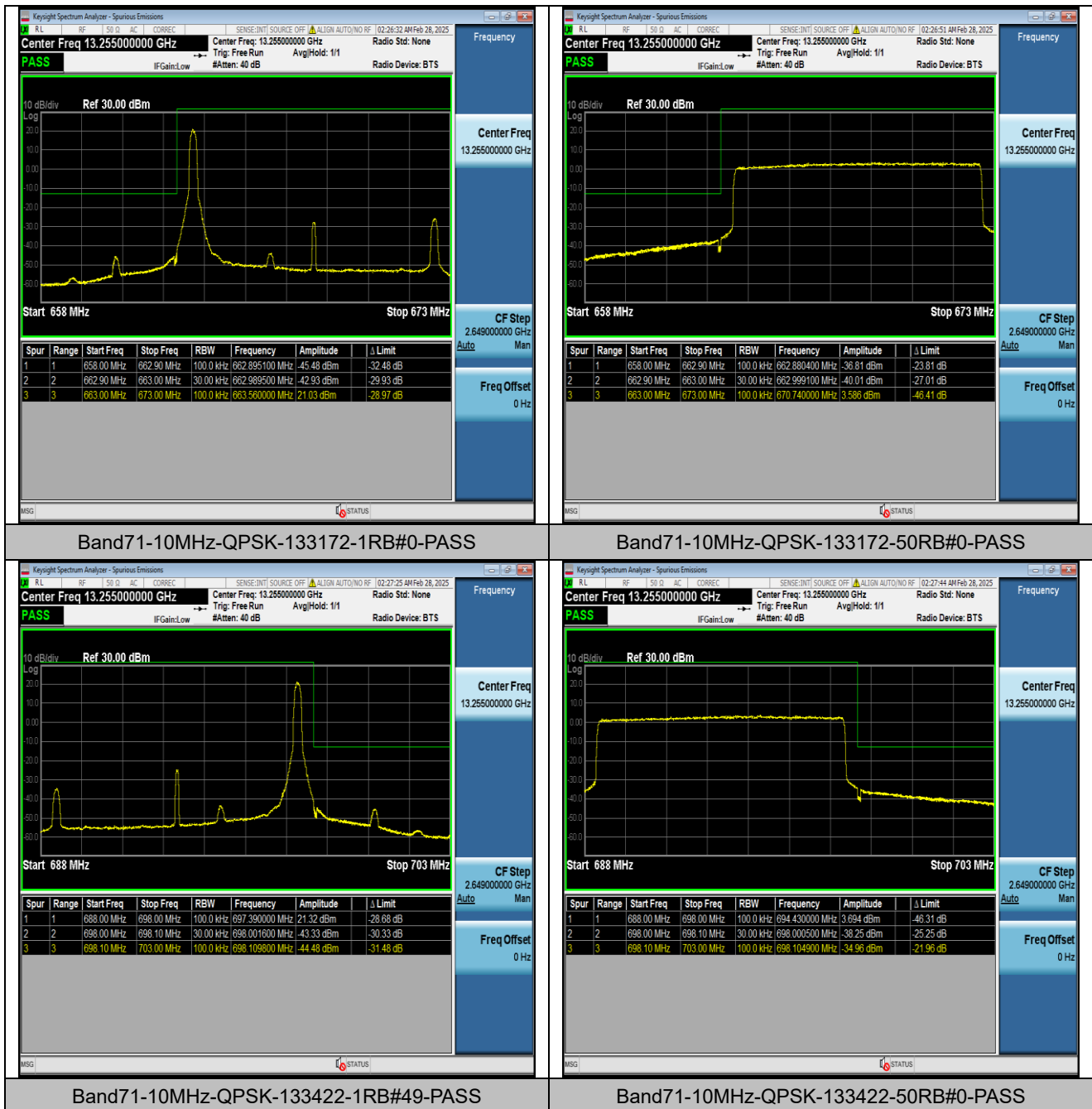


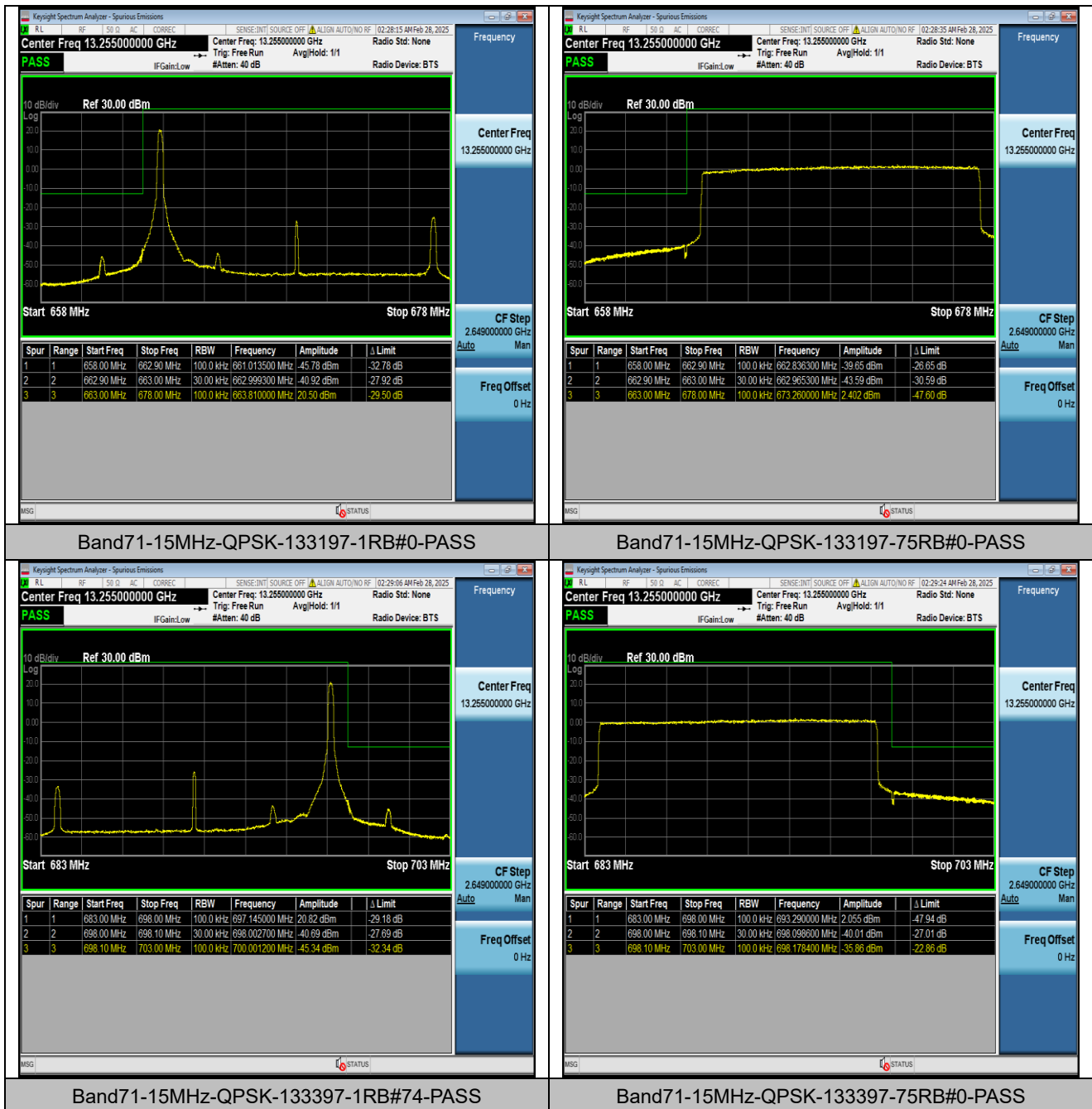


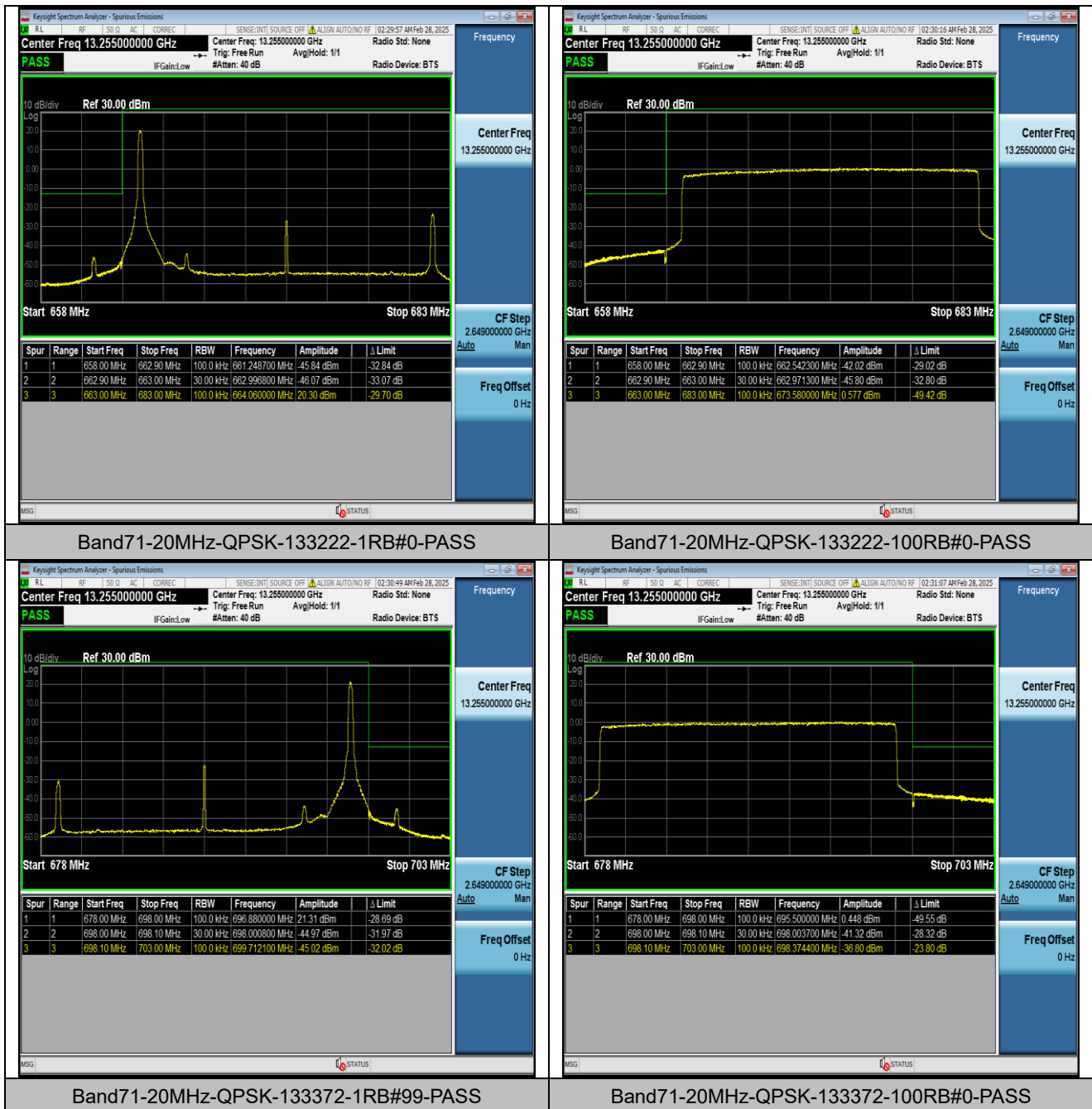
Band Edge

Test Graphs



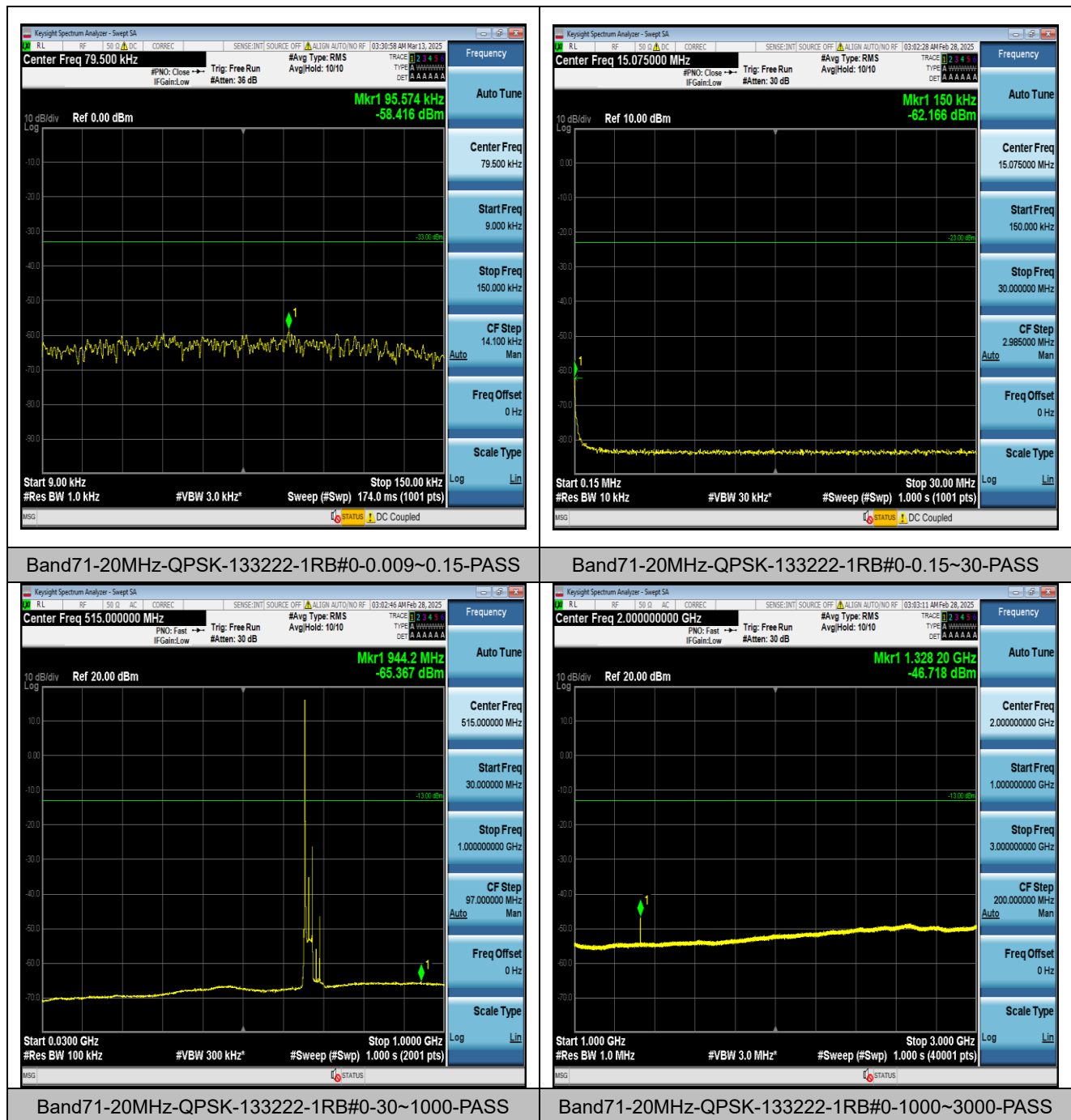


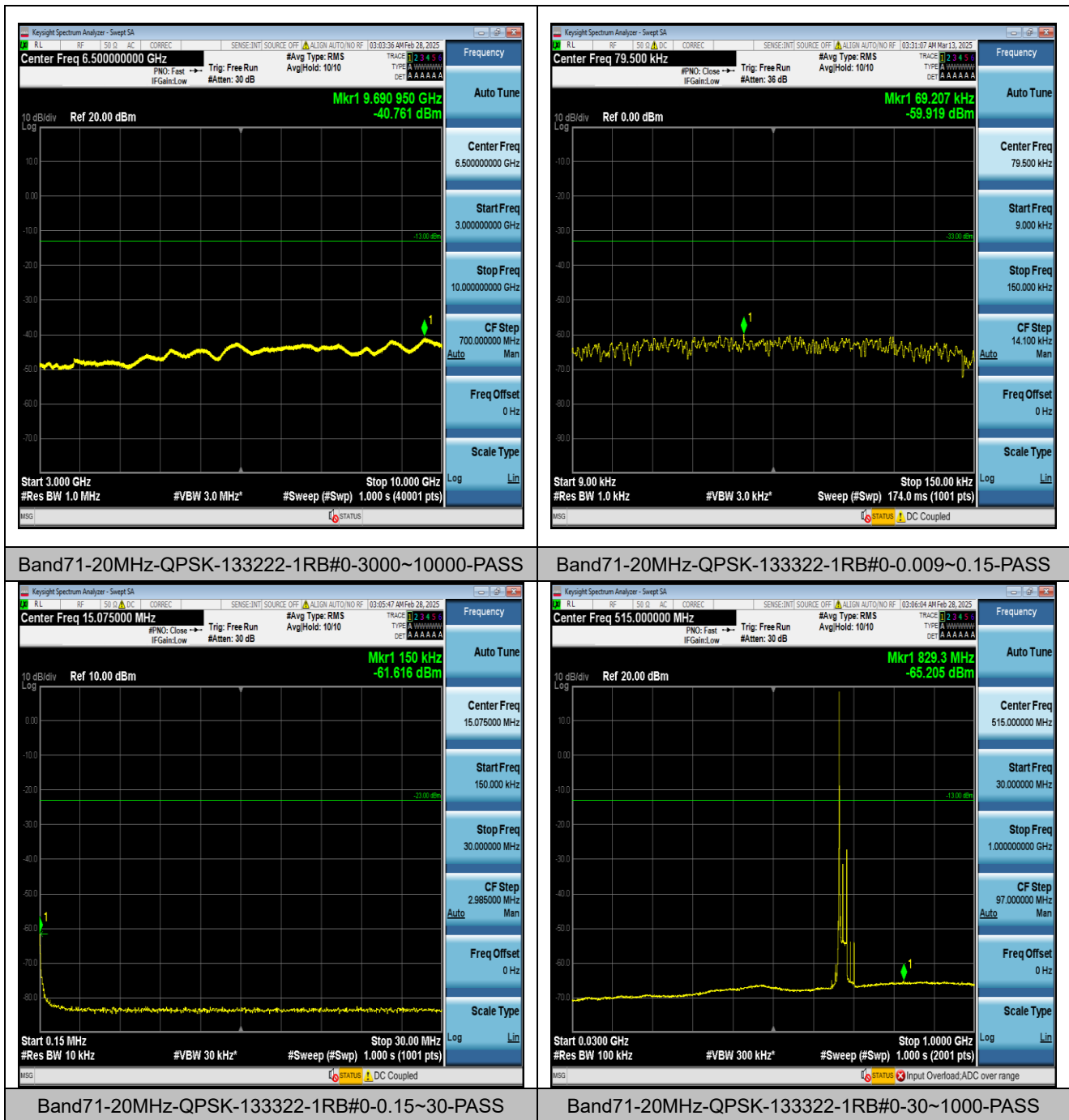


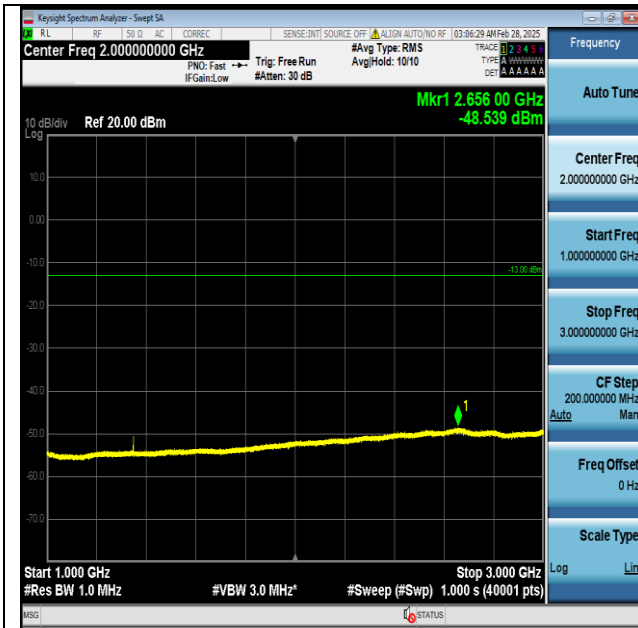


Conducted Spurious Emission

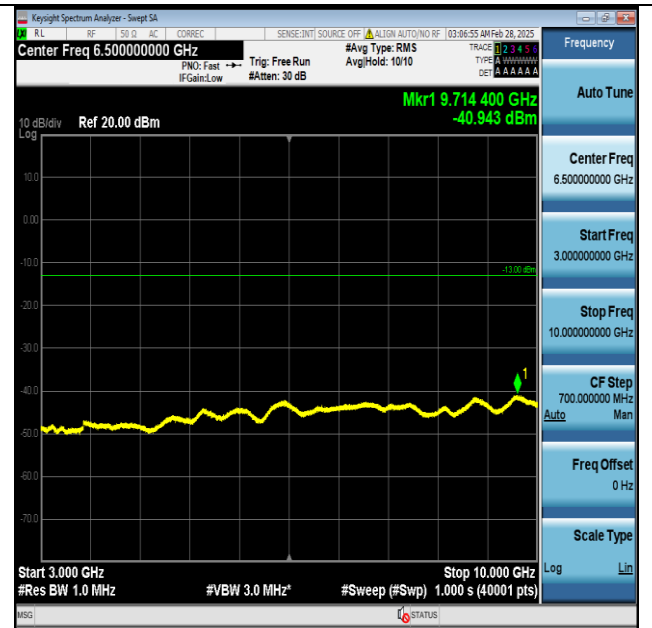
Test Graphs



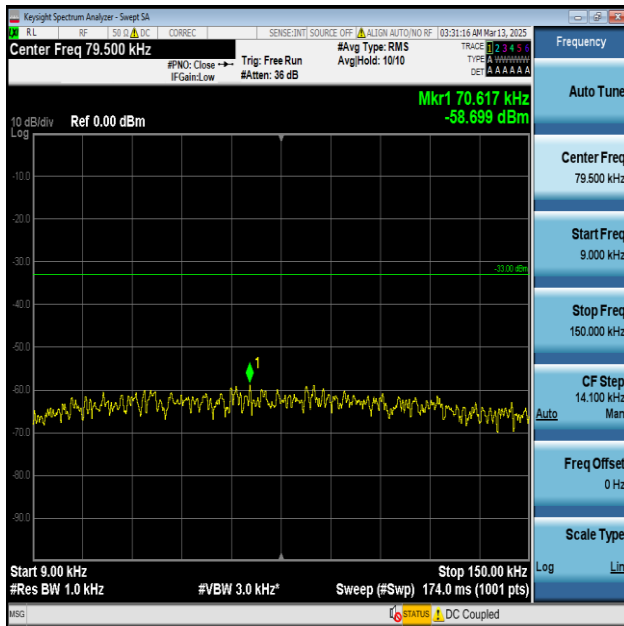




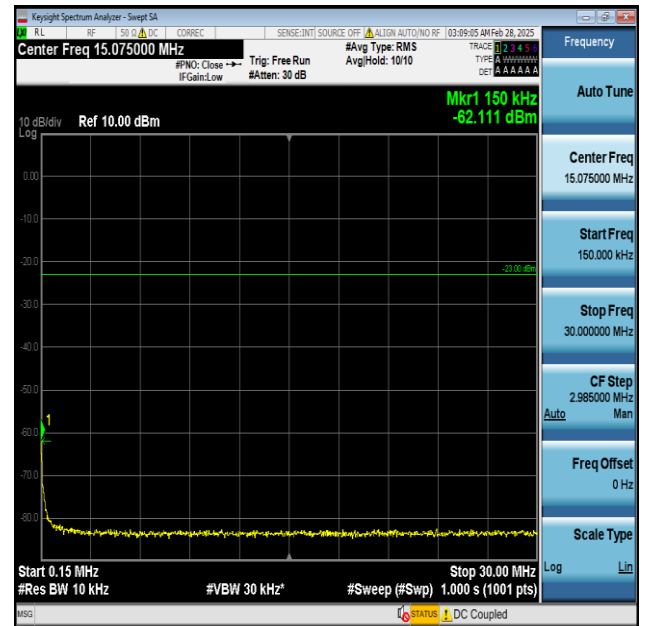
Band71-20MHz-QPSK-133322-1RB#0-1000~3000-PASS



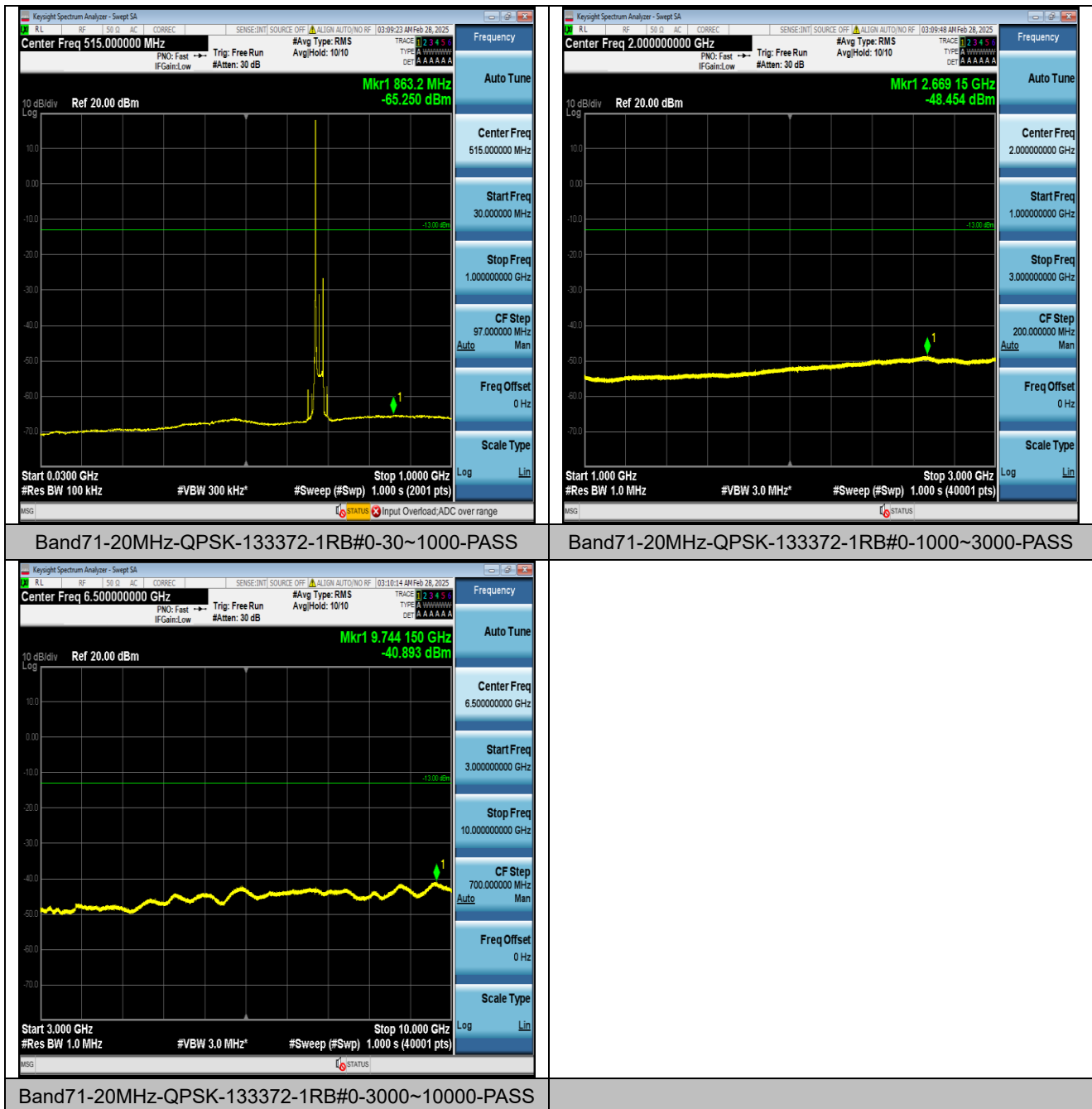
Band71-20MHz-QPSK-133322-1RB#0-3000~10000-PASS



Band71-20MHz-QPSK-133372-1RB#0-0.009~0.15-PASS



Band71-20MHz-QPSK-133372-1RB#0-0.15~30-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	-0.50	-0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.10	0.000146	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	-0.60	-0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	0.10	0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-0.10	-0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	0.80	0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.80	-0.002635	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-2.00	-0.002928	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-0.80	-0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-0.50	-0.000732	PASS

~The End~