

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	24.81	23.66	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	24.45	23.3	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	24.4	23.25	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	23.42	22.27	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	25.07	23.92	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.75	23.6	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	24.79	23.64	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	23.89	22.74	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	24.57	23.42	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	24.42	23.27	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	24.33	23.18	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	23.52	22.37	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.55	22.4	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.17	22.02	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	23.12	21.97	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	22.46	21.31	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	24.2	23.05	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	24.01	22.86	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	23.91	22.76	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.96	21.81	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	23.55	22.4	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.3	22.15	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	23.24	22.09	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	22.8	21.65	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	24.9	23.75	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.06	22.91	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	24.32	23.17	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	23.46	22.31	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	24.99	23.84	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	24.64	23.49	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.63	23.48	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	23.96	22.81	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.65	23.5	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	24.52	23.37	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.7	23.55	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	23.68	22.53	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.41	22.26	34.77	PASS

Band71	10MHz	16QAM	133172	1RB#24	23.19	22.04	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.14	21.99	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	22.18	21.03	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	24.16	23.01	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.18	22.03	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.57	22.42	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	22.77	21.62	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.59	22.44	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.06	21.91	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	23.56	22.41	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	22.58	21.43	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	24.71	23.56	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	24.25	23.1	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	24.37	23.22	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	23.61	22.46	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	24.88	23.73	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.68	23.53	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	24.26	23.11	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	23.94	22.79	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.82	23.67	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	24.25	23.1	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	24.55	23.4	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	23.63	22.48	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	23.45	22.3	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.44	22.29	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	23.13	21.98	34.77	PASS
Band71	15MHz	16QAM	133197	27RB#0	22.61	21.46	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	23.81	22.66	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.51	22.36	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	23.48	22.33	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	22.85	21.7	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	24.08	22.93	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	23.11	21.96	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	23.26	22.11	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	22.95	21.8	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	25.12	23.97	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	24.43	23.28	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	24.69	23.54	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	23.87	22.72	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	25.03	23.88	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.59	23.44	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	24.1	22.95	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	23.7	22.55	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	25.33	24.18	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	24.41	23.26	34.77	PASS

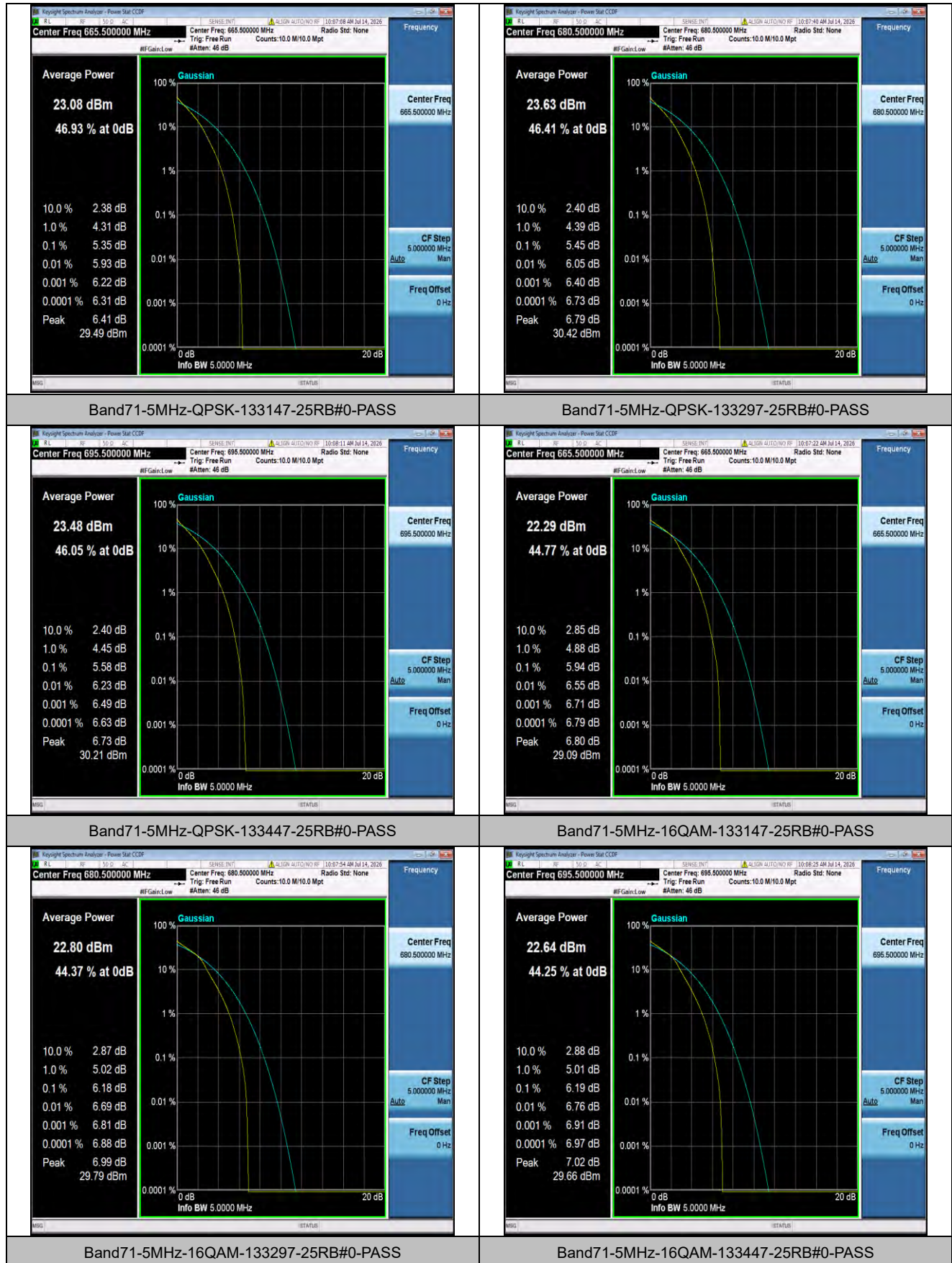
Band71	20MHz	QPSK	133372	1RB#99	24.62	23.47	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	23.86	22.71	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	24.31	23.16	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.51	22.36	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	23.99	22.84	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	23.05	21.9	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	24.34	23.19	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	23.3	22.15	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.18	22.03	34.77	PASS
Band71	20MHz	16QAM	133322	27RB#0	22.86	21.71	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	24.05	22.9	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.47	22.32	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	23.4	22.25	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	23.12	21.97	34.77	PASS

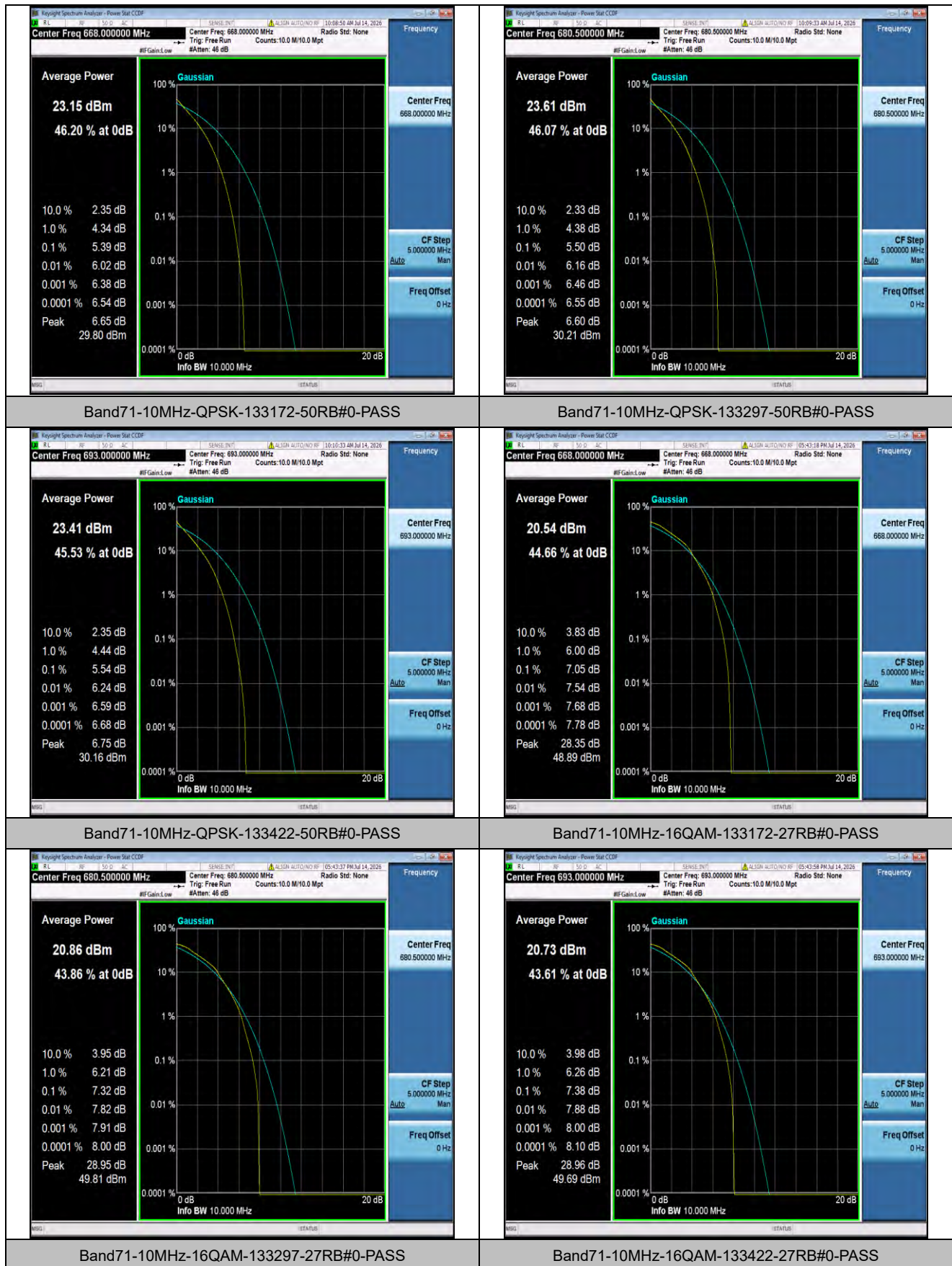
Peak-to-Average Ratio(CCDF)

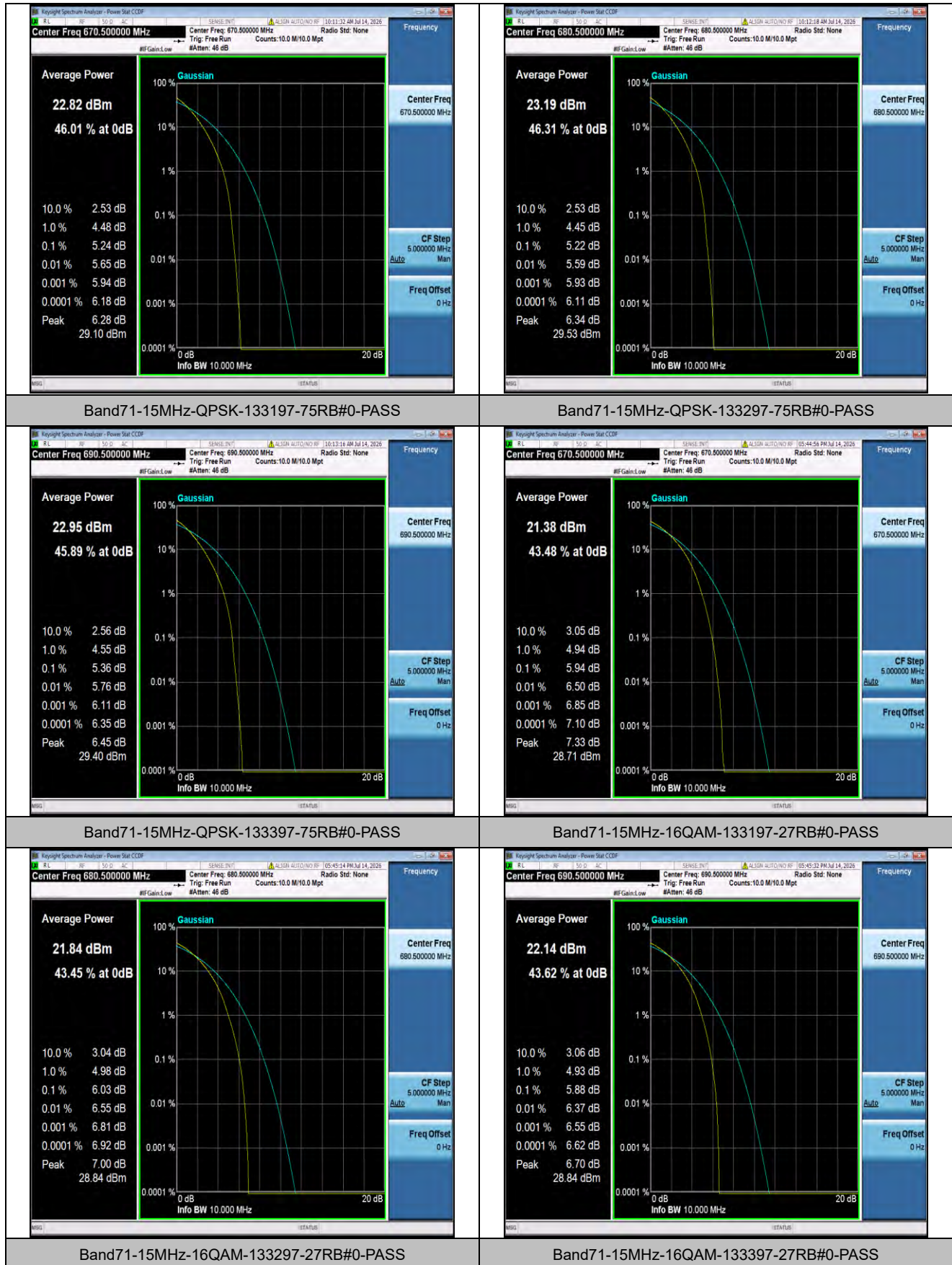
Test Result

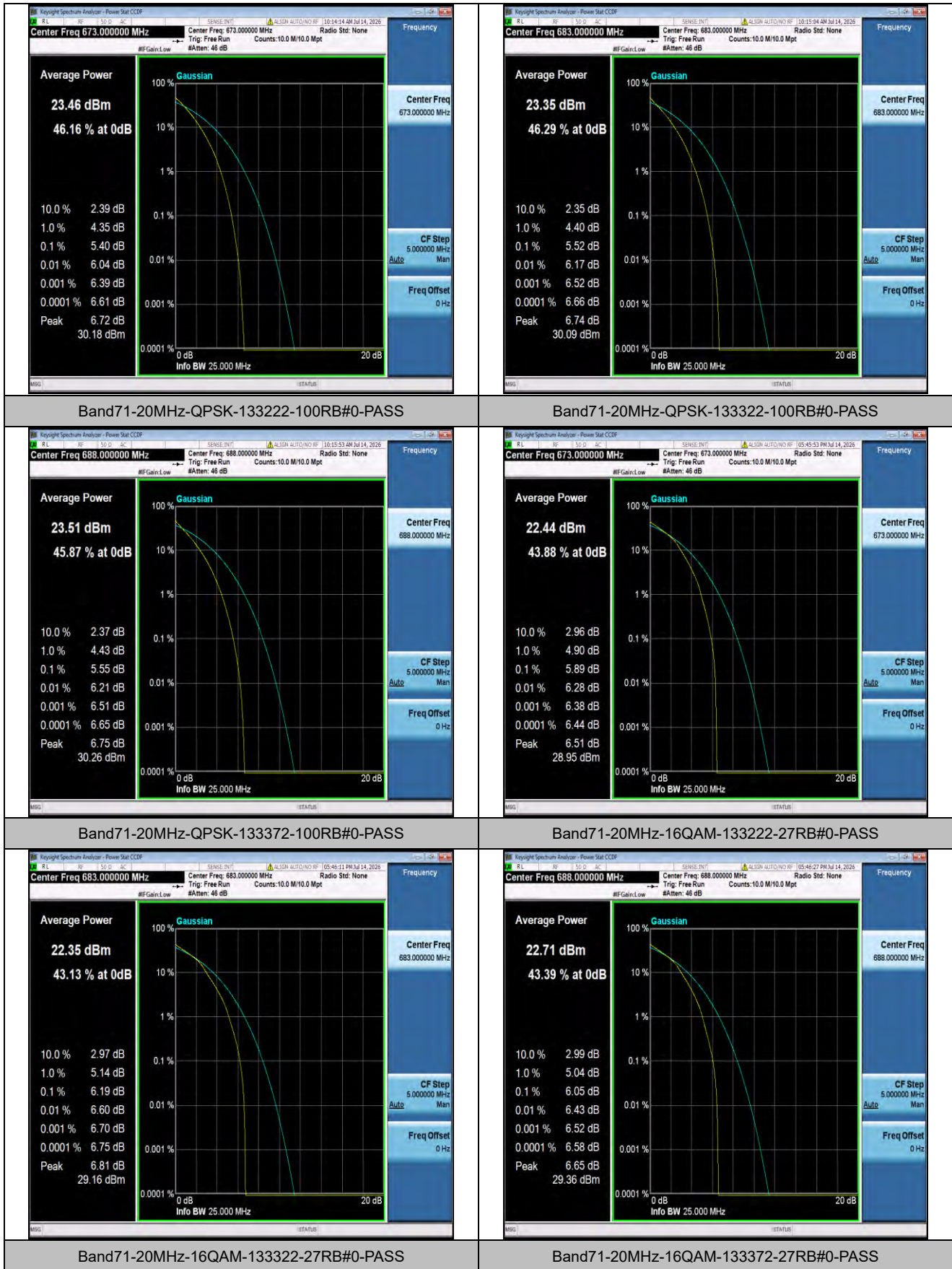
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.35	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.45	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.58	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	5.94	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.18	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.19	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.39	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.50	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.54	13	PASS
Band71	10MHz	16QAM	133172	27RB#0	7.05	13	PASS
Band71	10MHz	16QAM	133297	27RB#0	7.32	13	PASS
Band71	10MHz	16QAM	133422	27RB#0	7.38	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.24	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.22	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.36	13	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.94	13	PASS
Band71	15MHz	16QAM	133297	27RB#0	6.03	13	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.88	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.40	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.52	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.55	13	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.89	13	PASS
Band71	20MHz	16QAM	133322	27RB#0	6.19	13	PASS
Band71	20MHz	16QAM	133372	27RB#0	6.05	13	PASS

Test Graphs







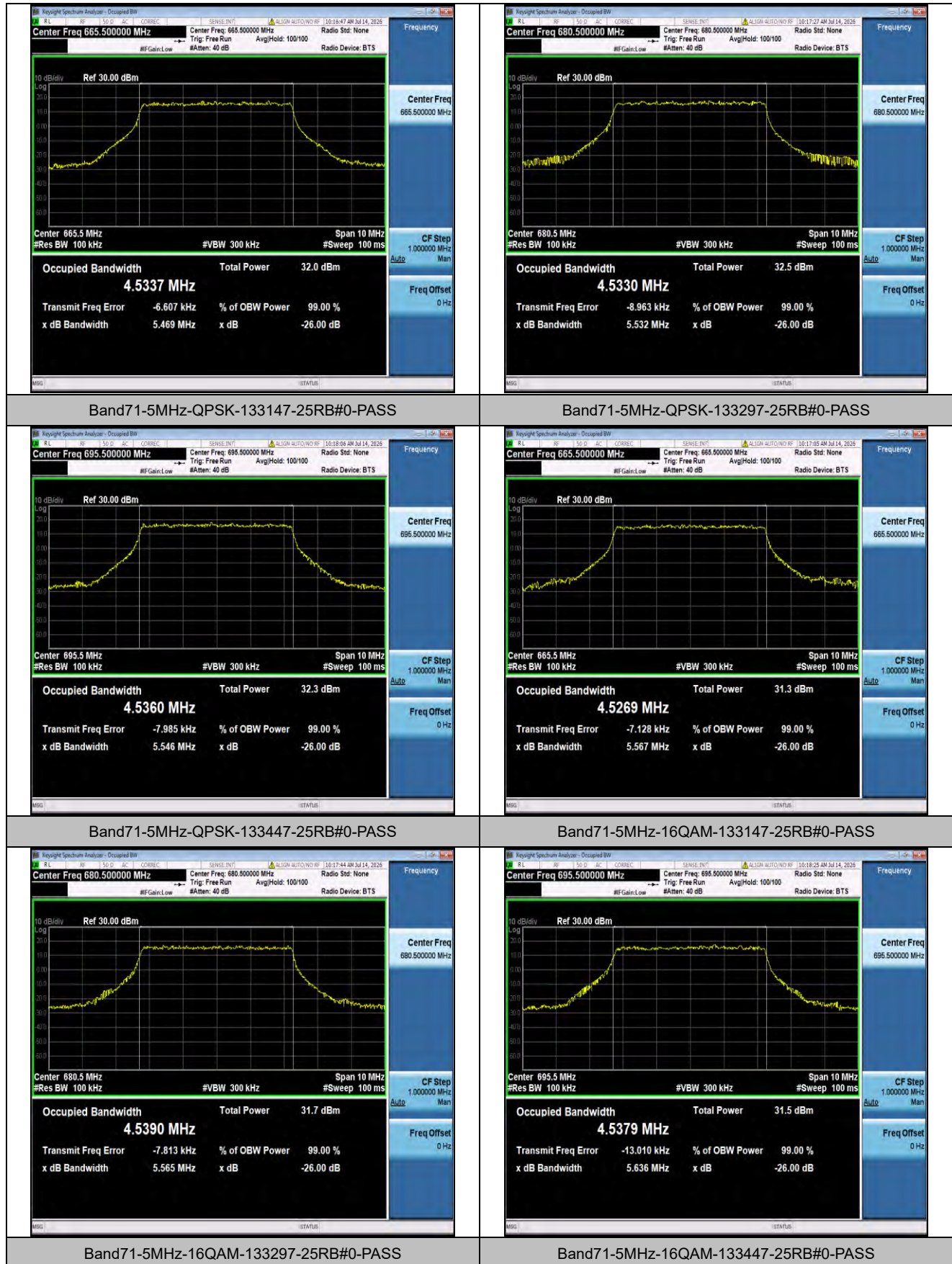


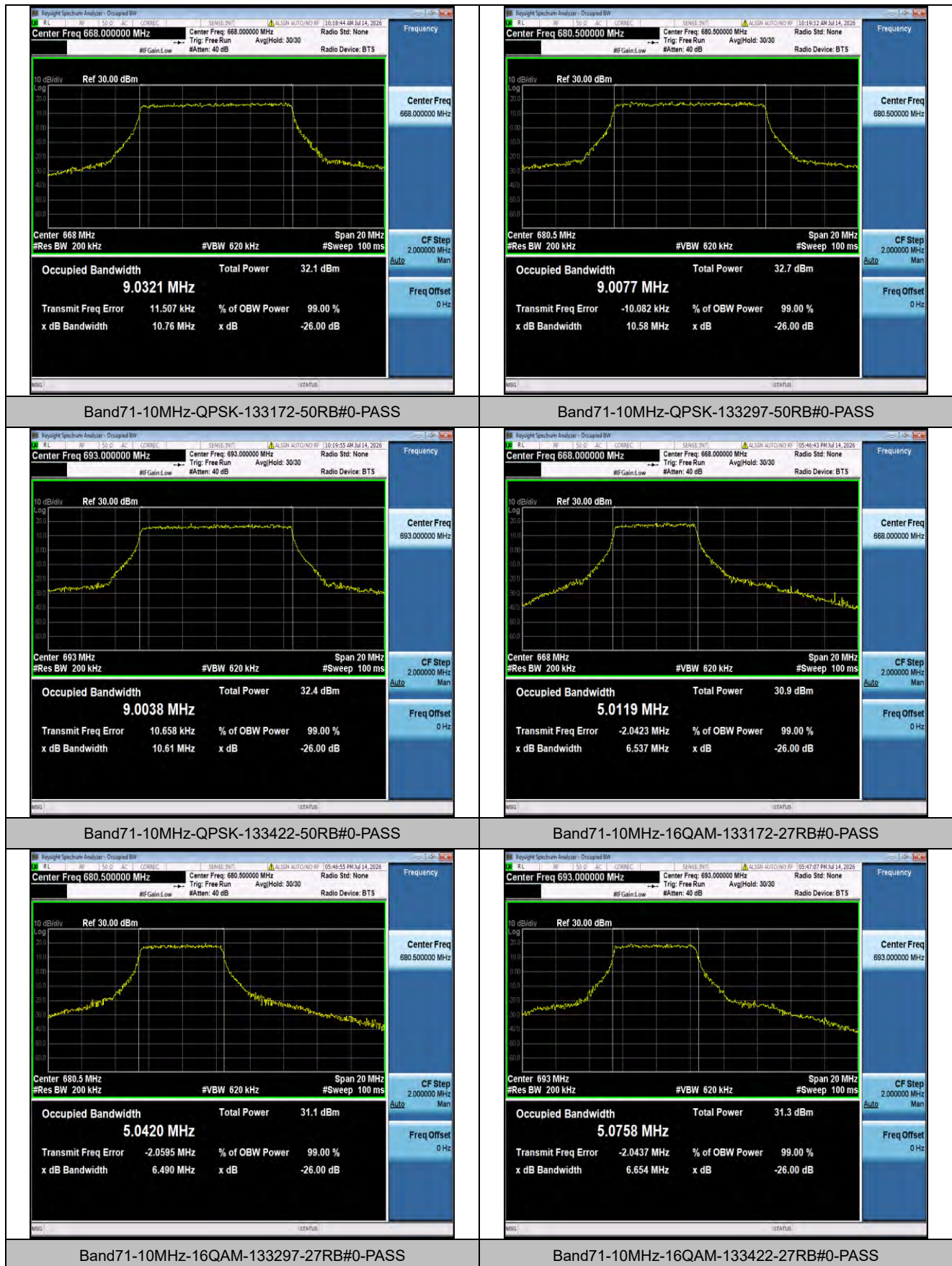
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5337	5.469	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5330	5.532	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5360	5.546	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5269	5.567	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5390	5.565	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5379	5.636	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0321	10.76	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0077	10.58	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0038	10.61	PASS
Band71	10MHz	16QAM	133172	27RB#0	5.0119	6.537	PASS
Band71	10MHz	16QAM	133297	27RB#0	5.0420	6.490	PASS
Band71	10MHz	16QAM	133422	27RB#0	5.0758	6.654	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.506	16.17	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.505	16.03	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.510	16.33	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.3616	7.869	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.3566	7.661	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.2693	7.704	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.948	20.31	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.929	20.29	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.983	20.65	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.5723	8.048	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.4774	8.189	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.4927	7.991	PASS

Test Graphs

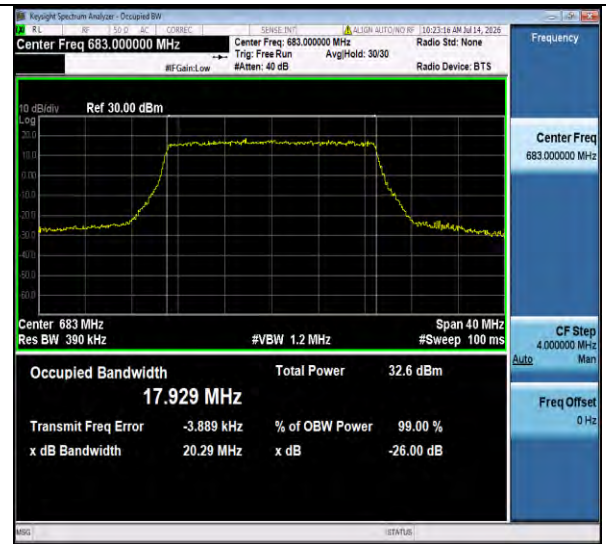








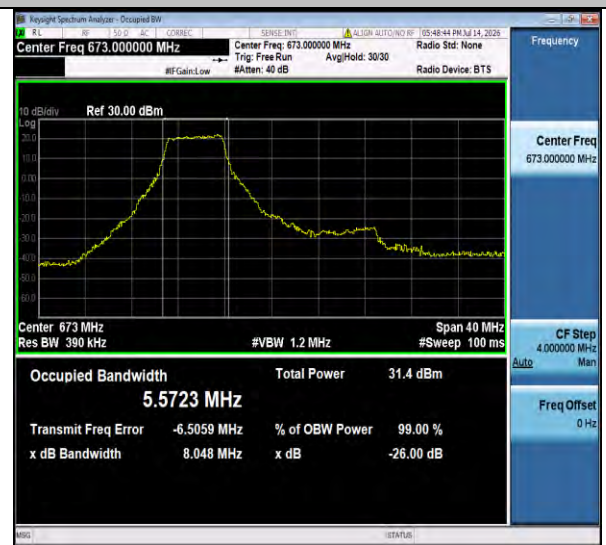
Band71-20MHz-QPSK-133222-100RB#0-PASS



Band71-20MHz-QPSK-133322-100RB#0-PASS



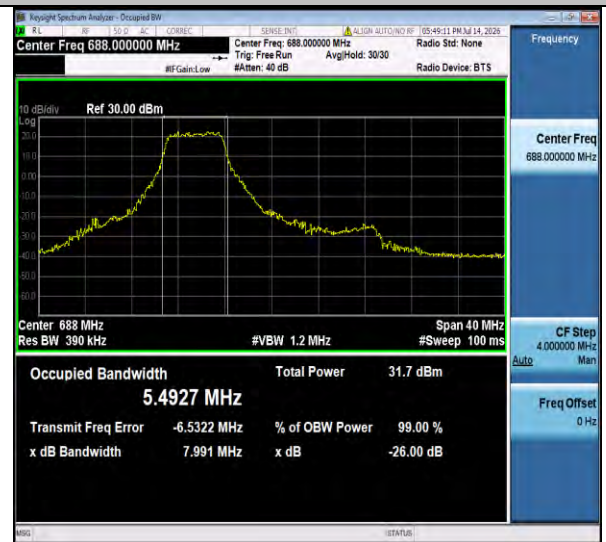
Band71-20MHz-QPSK-133372-100RB#0-PASS



Band71-20MHz-16QAM-133222-27RB#0-PASS



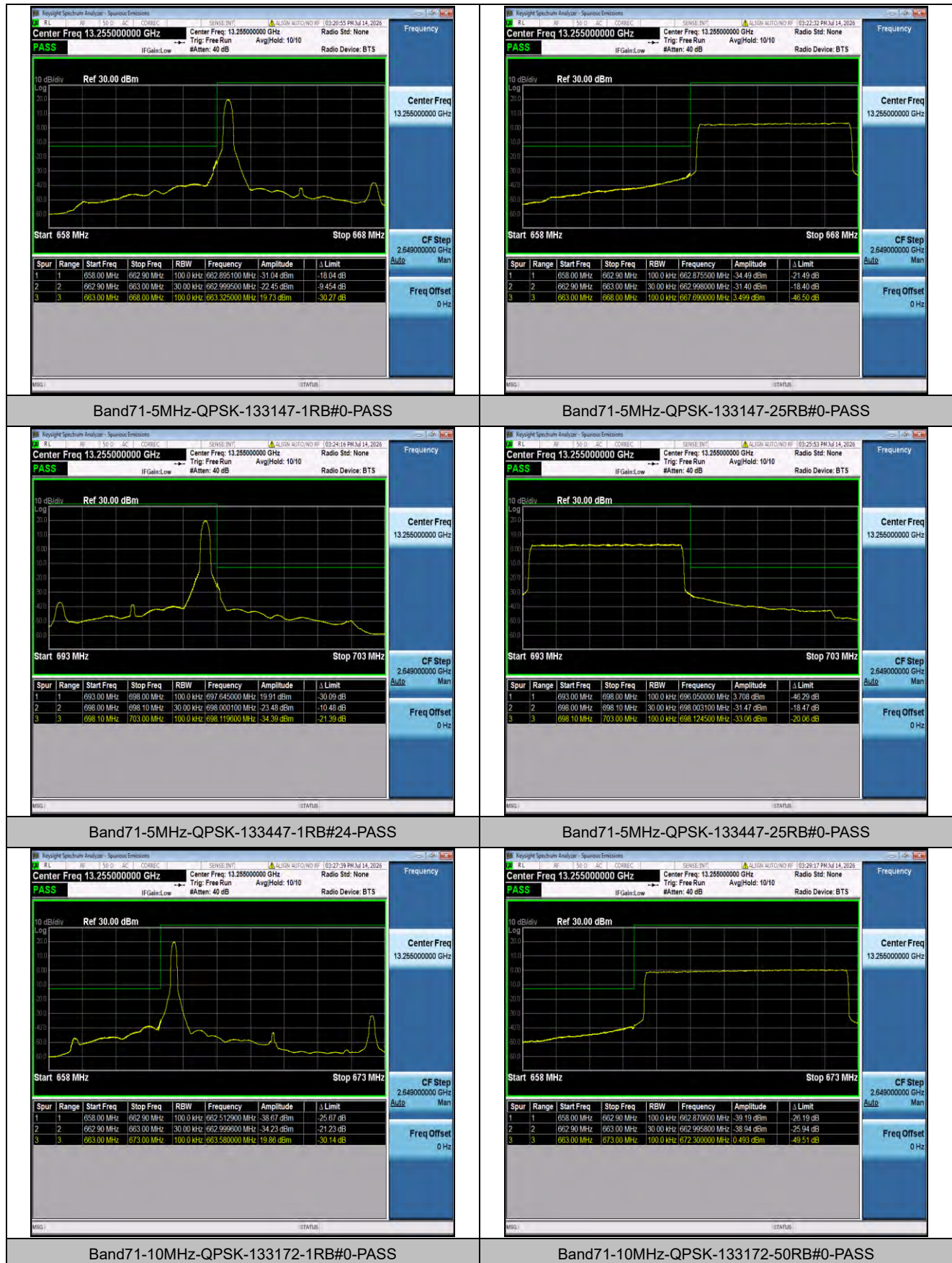
Band71-20MHz-16QAM-133322-27RB#0-PASS



Band71-20MHz-16QAM-133372-27RB#0-PASS

Band Edge

Test Graphs





Band71-10MHz-QPSK-133422-1RB#49-PASS



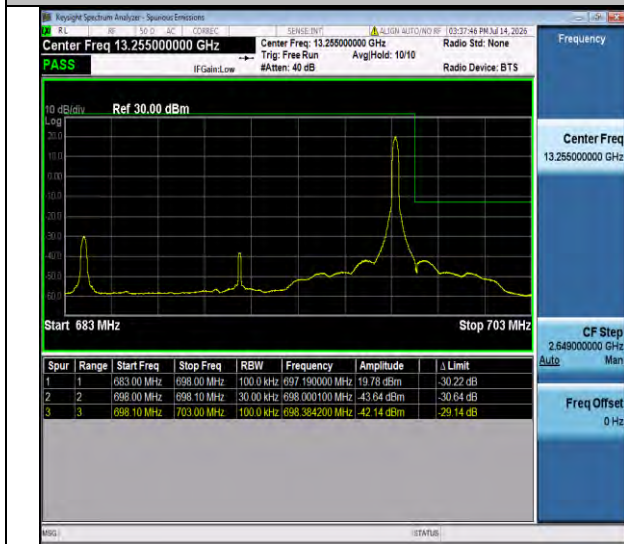
Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-15MHz-QPSK-133197-1RB#0-PASS



Band71-15MHz-QPSK-133197-75RB#0-PASS



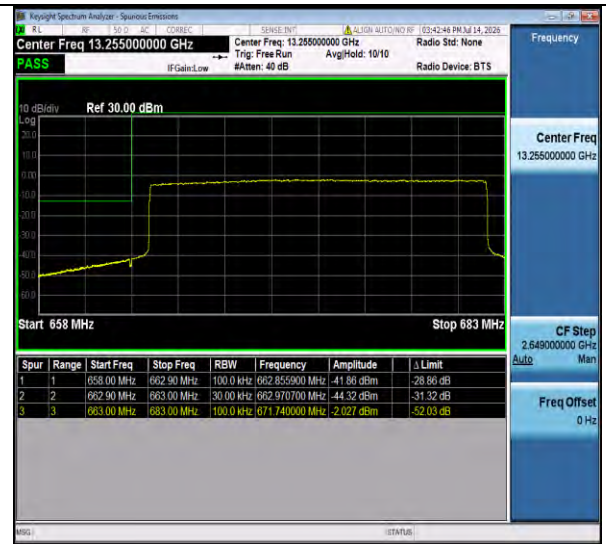
Band71-15MHz-QPSK-133397-1RB#74-PASS



Band71-15MHz-QPSK-133397-75RB#0-PASS



Band71-20MHz-QPSK-133222-1RB#0-PASS



Band71-20MHz-QPSK-133222-100RB#0-PASS



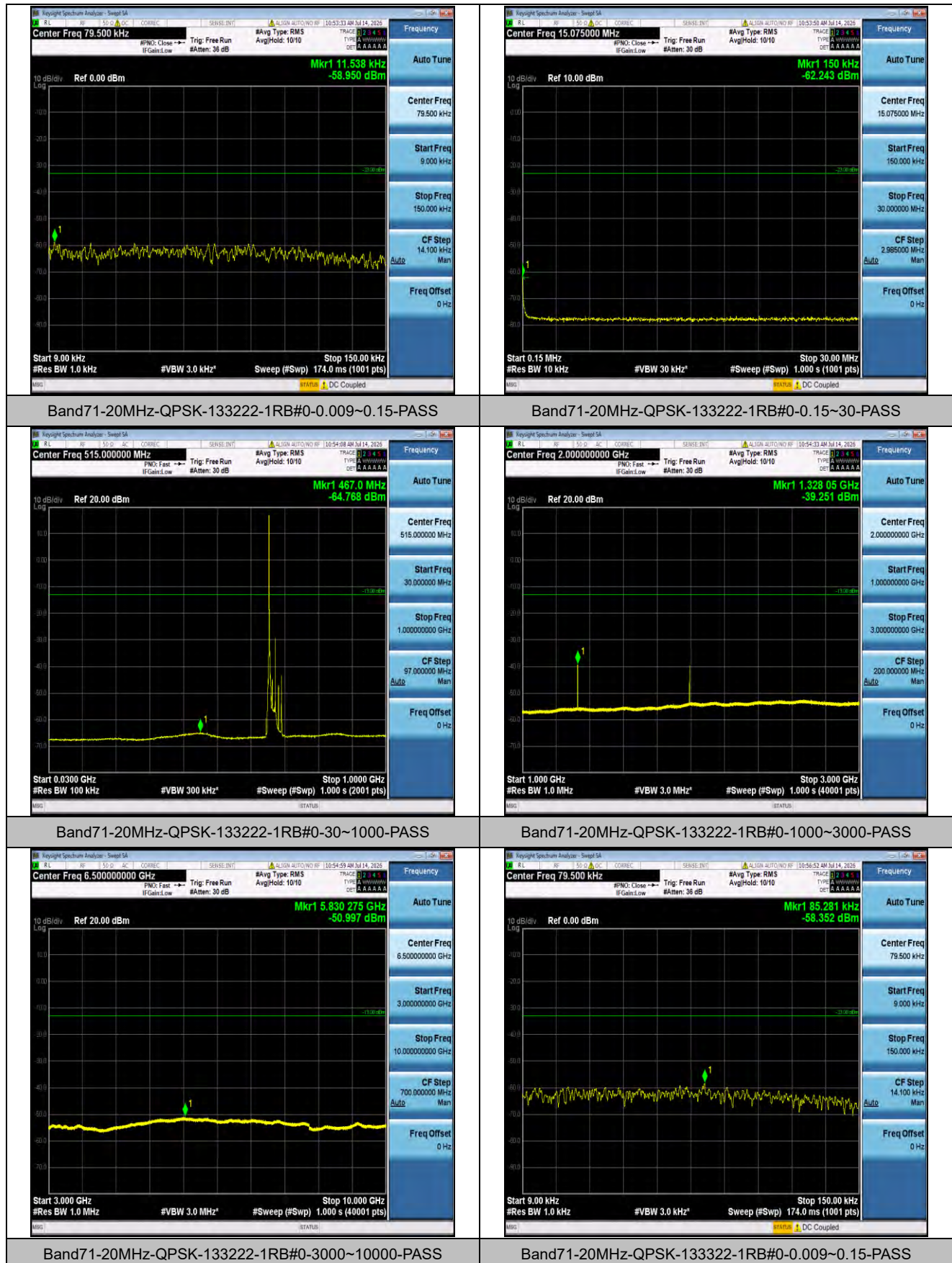
Band71-20MHz-QPSK-133372-1RB#99-PASS

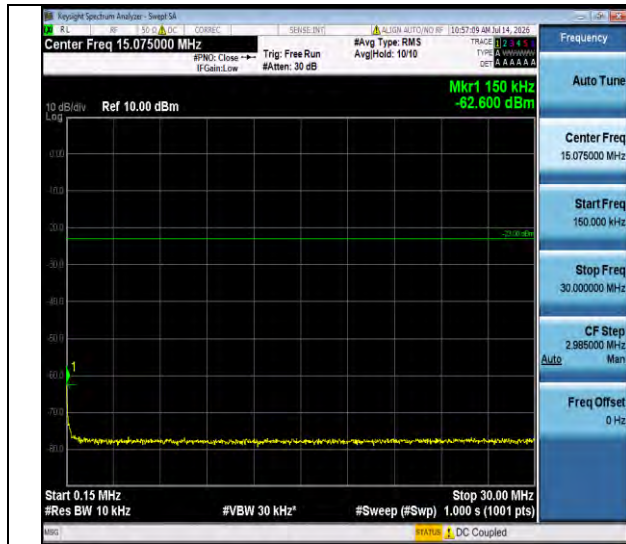


Band71-20MHz-QPSK-133372-100RB#0-PASS

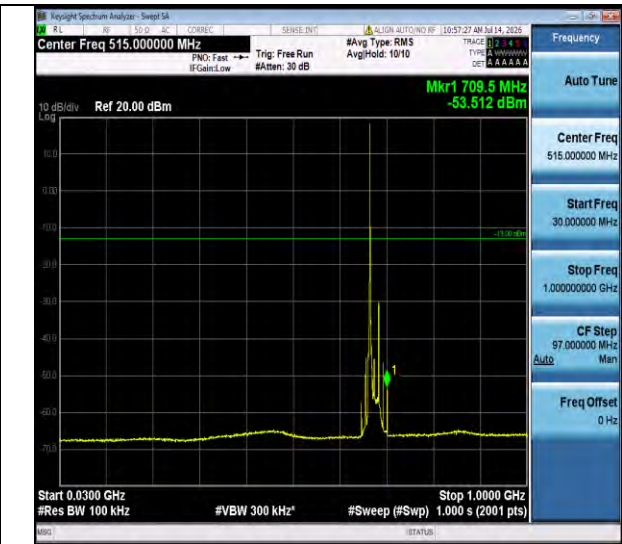
Conducted Spurious Emission

Test Graphs





Band71-20MHz-QPSK-133322-1RB#0-0.15~30-PASS



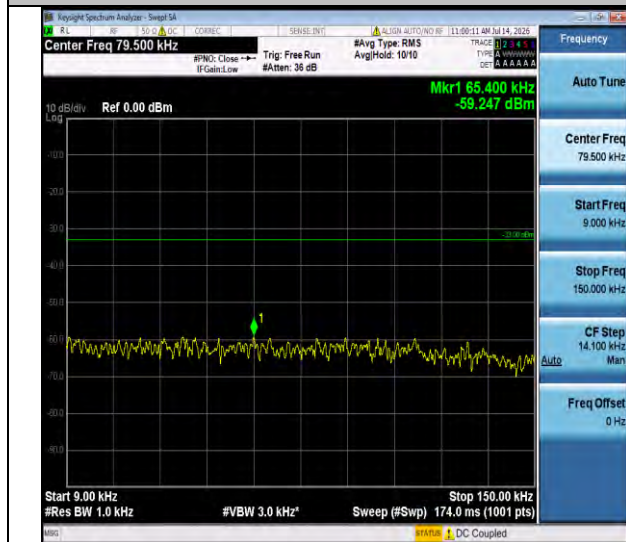
Band71-20MHz-QPSK-133322-1RB#0-30~1000-PASS



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



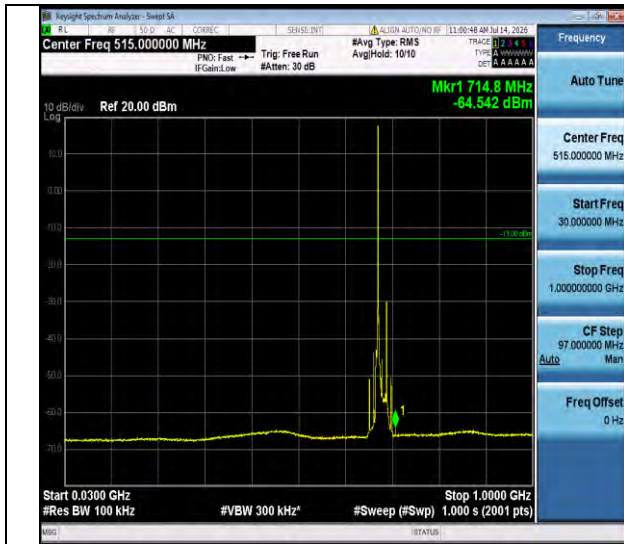
Band71-20MHz-QPSK-133322-1RB#0-3000~10000-PASS



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



Band71-20MHz-QPSK-133372-1RB#0-0.15~30-PASS



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	-4.34	-0.006354	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-5.66	-0.008287	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-5.99	-0.008770	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	-4.79	-0.007013	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-3.60	-0.005271	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-3.14	-0.004597	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-5.72	-0.008375	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-3.91	-0.005725	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-3.26	-0.004773	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-4.10	-0.006003	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	2.55	0.003734	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-3.64	-0.005329	PASS

~The End~