

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	23.16	20.11	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.99	19.94	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.2	20.15	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.29	19.24	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.39	19.34	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.73	19.68	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.7	19.65	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.41	18.36	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.01	19.96	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.99	19.94	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.93	19.88	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.44	19.39	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.23	19.18	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.57	19.52	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.25	19.2	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.47	18.42	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.12	20.07	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.51	20.46	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.12	20.07	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.68	19.63	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.44	19.39	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.51	19.46	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.56	19.51	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.72	18.67	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.22	20.17	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.93	19.88	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.15	20.1	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.34	19.29	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.21	19.16	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.74	19.69	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.47	19.42	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.29	18.24	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.12	20.07	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.15	20.1	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.03	19.98	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.51	19.46	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.38	19.33	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#24	22.66	19.61	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.52	19.47	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.47	18.42	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.32	20.27	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.22	20.17	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.32	20.27	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.66	19.61	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.78	19.73	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.5	19.45	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.74	19.69	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.48	18.43	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.16	20.11	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.19	20.14	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.22	20.17	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.37	19.32	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.79	19.74	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.43	19.38	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.28	19.23	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.31	18.26	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.05	20	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.03	19.98	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.1	20.05	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.41	19.36	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.71	19.66	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.31	19.26	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.34	19.29	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.56	18.51	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.15	20.1	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.2	20.15	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.18	20.13	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.65	19.6	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.44	19.39	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.77	19.72	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.56	19.51	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.55	18.5	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.15	20.1	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.99	19.94	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.26	20.21	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.45	19.4	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.37	19.32	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.51	19.46	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.36	19.31	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.47	18.42	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.96	19.91	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.95	19.9	34.77	PASS

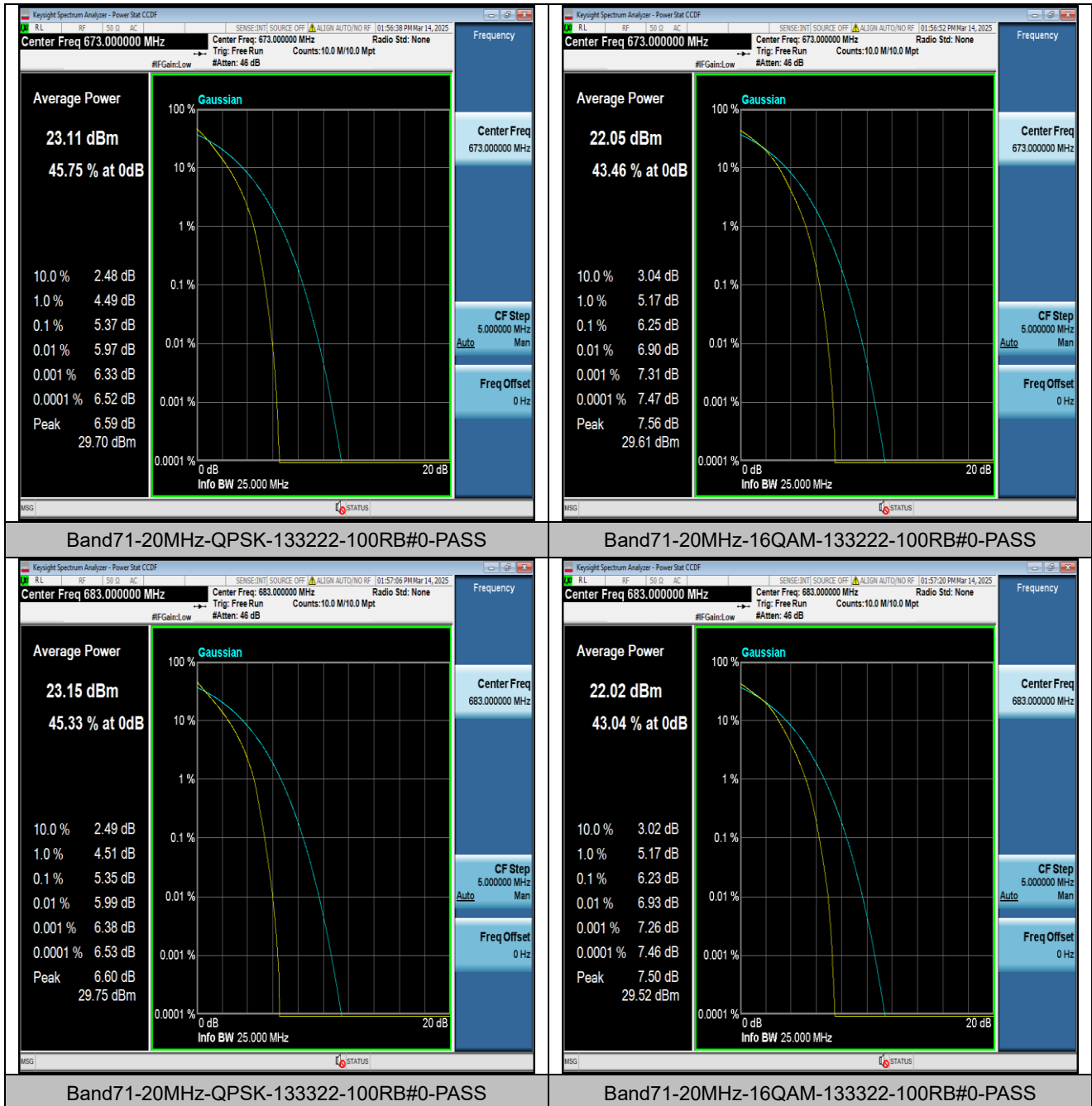
Band71	20MHz	QPSK	133322	1RB#99	22.96	19.91	34.77	PASS
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Band71	20MHz	16QAM	133322	1RB#0	22.68	19.63	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.68	19.63	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.43	19.38	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.31	18.26	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.09	20.04	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.11	20.06	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.03	19.98	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.49	19.44	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.38	19.33	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.28	19.23	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.36	19.31	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.51	18.46	34.77	PASS

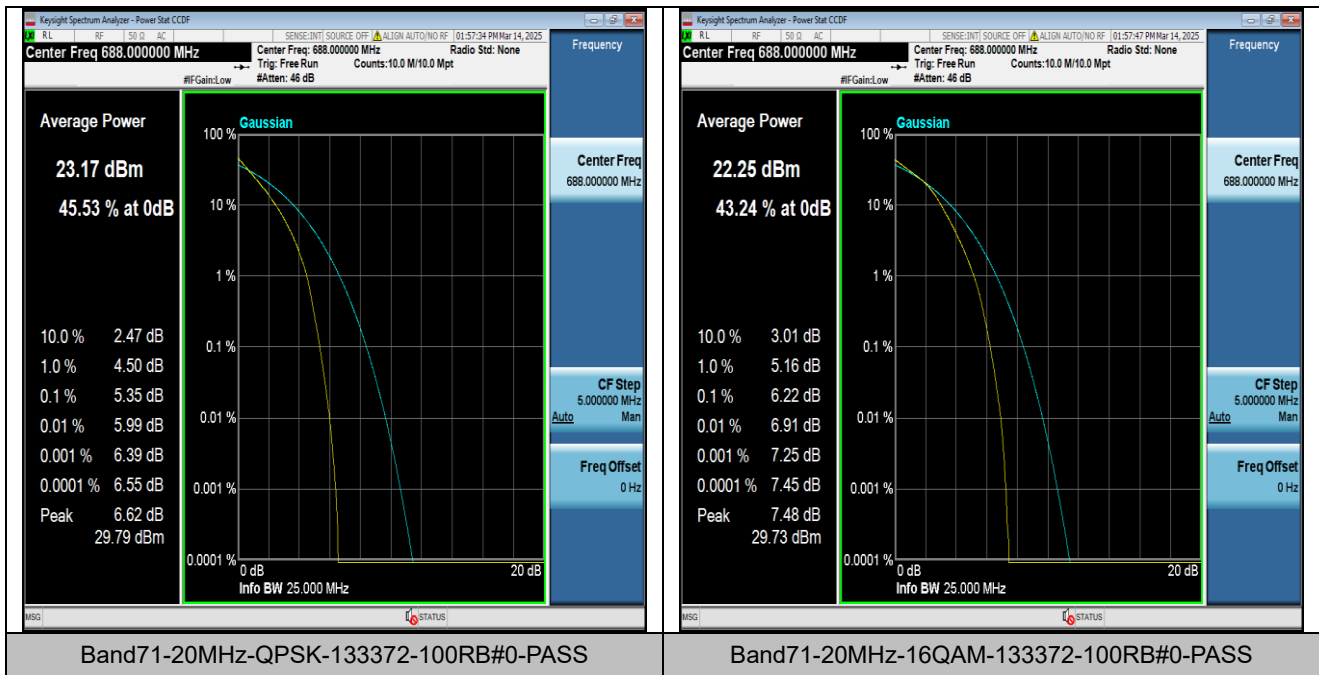
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.37	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.25	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.35	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.23	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.35	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.22	13	PASS

Test Graphs



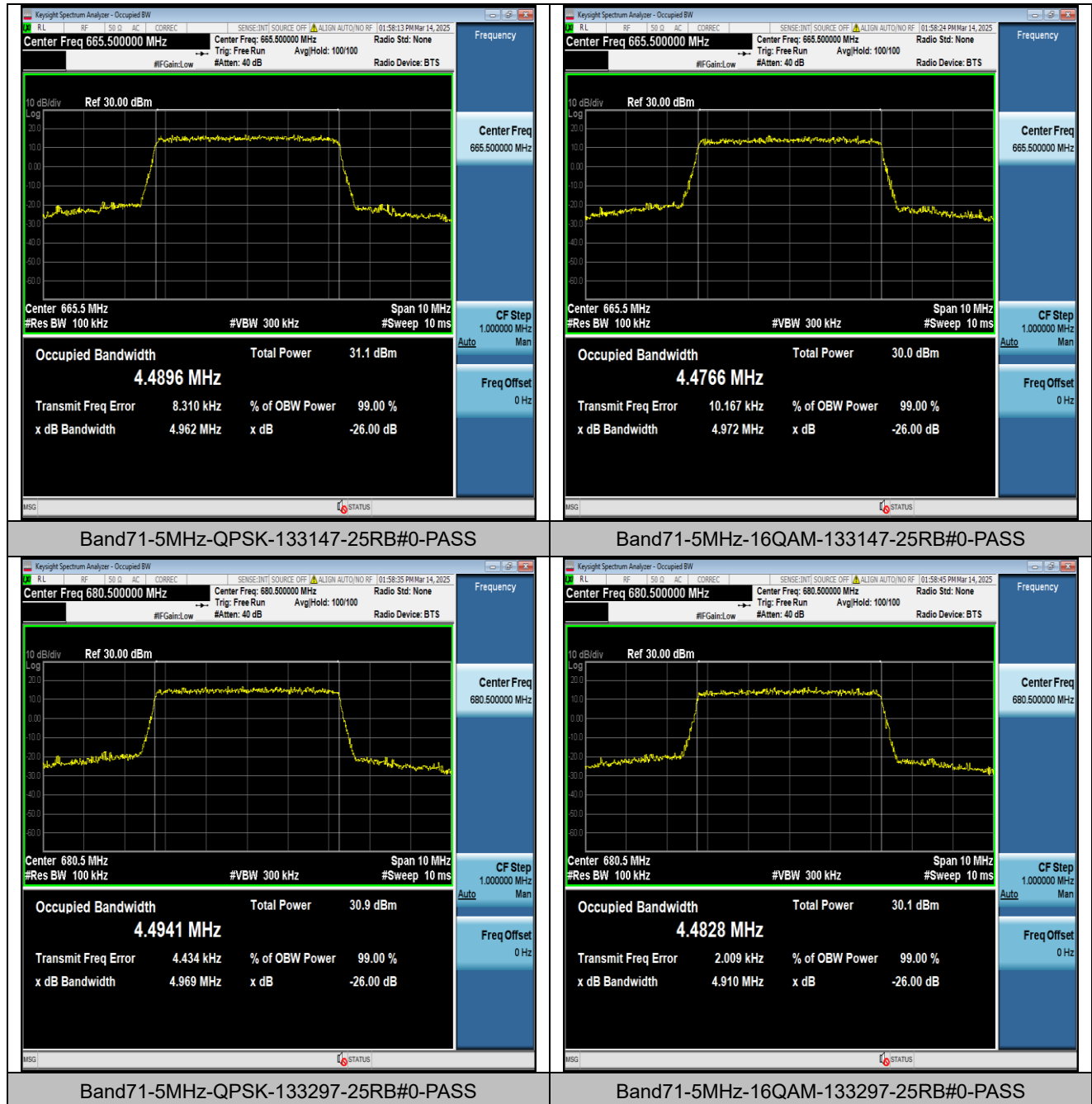


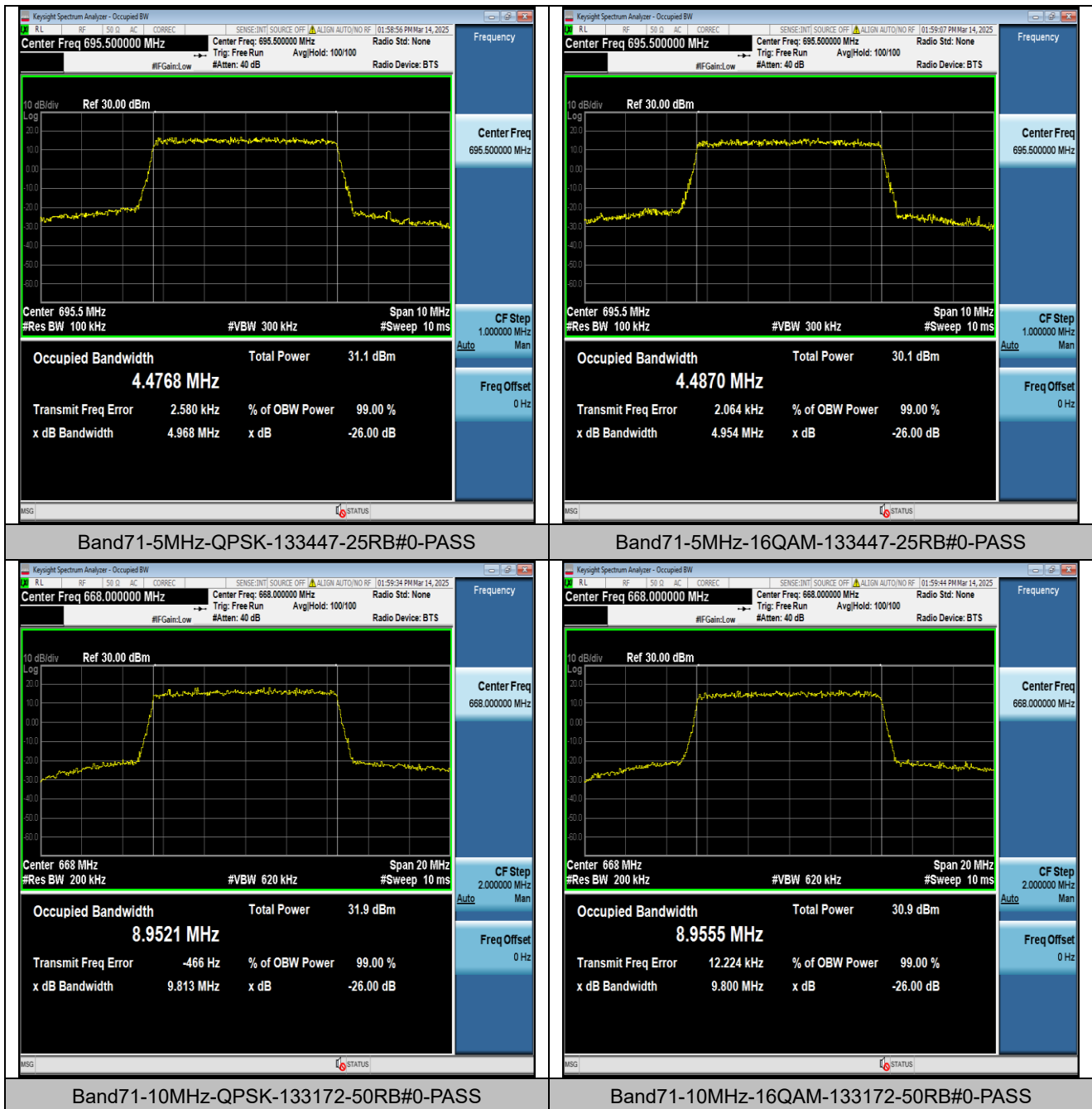
26dB Bandwidth and Occupied Bandwidth

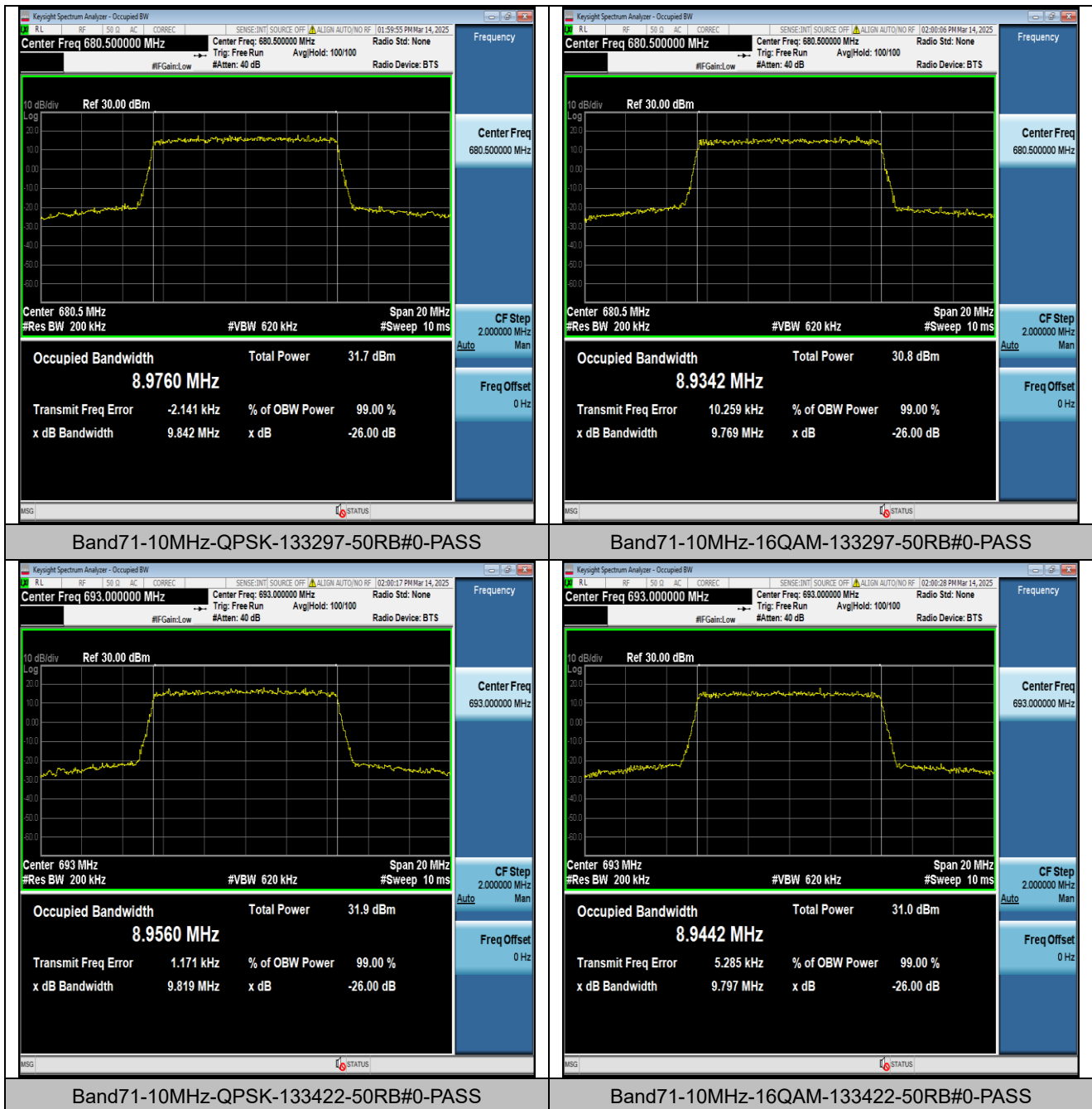
Test Result

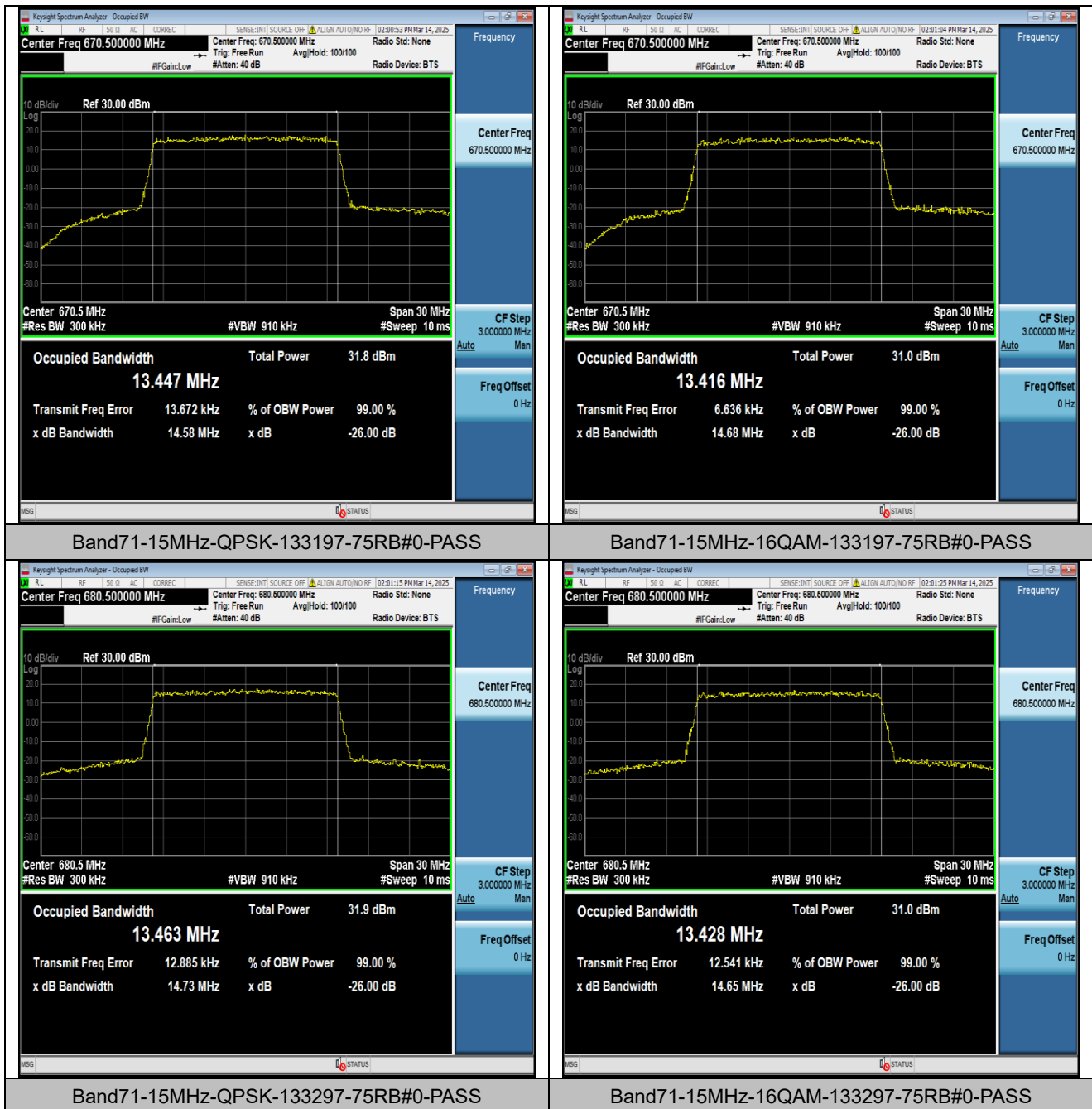
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4896	4.962	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4766	4.972	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4941	4.969	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4828	4.910	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4768	4.968	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4870	4.954	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9521	9.813	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9555	9.800	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9760	9.842	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9342	9.769	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9560	9.819	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9442	9.797	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.447	14.58	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.416	14.68	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.463	14.73	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.428	14.65	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.435	14.67	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.423	14.79	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.867	19.44	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.895	19.28	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.890	19.38	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.851	19.23	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.933	19.37	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.839	19.36	PASS

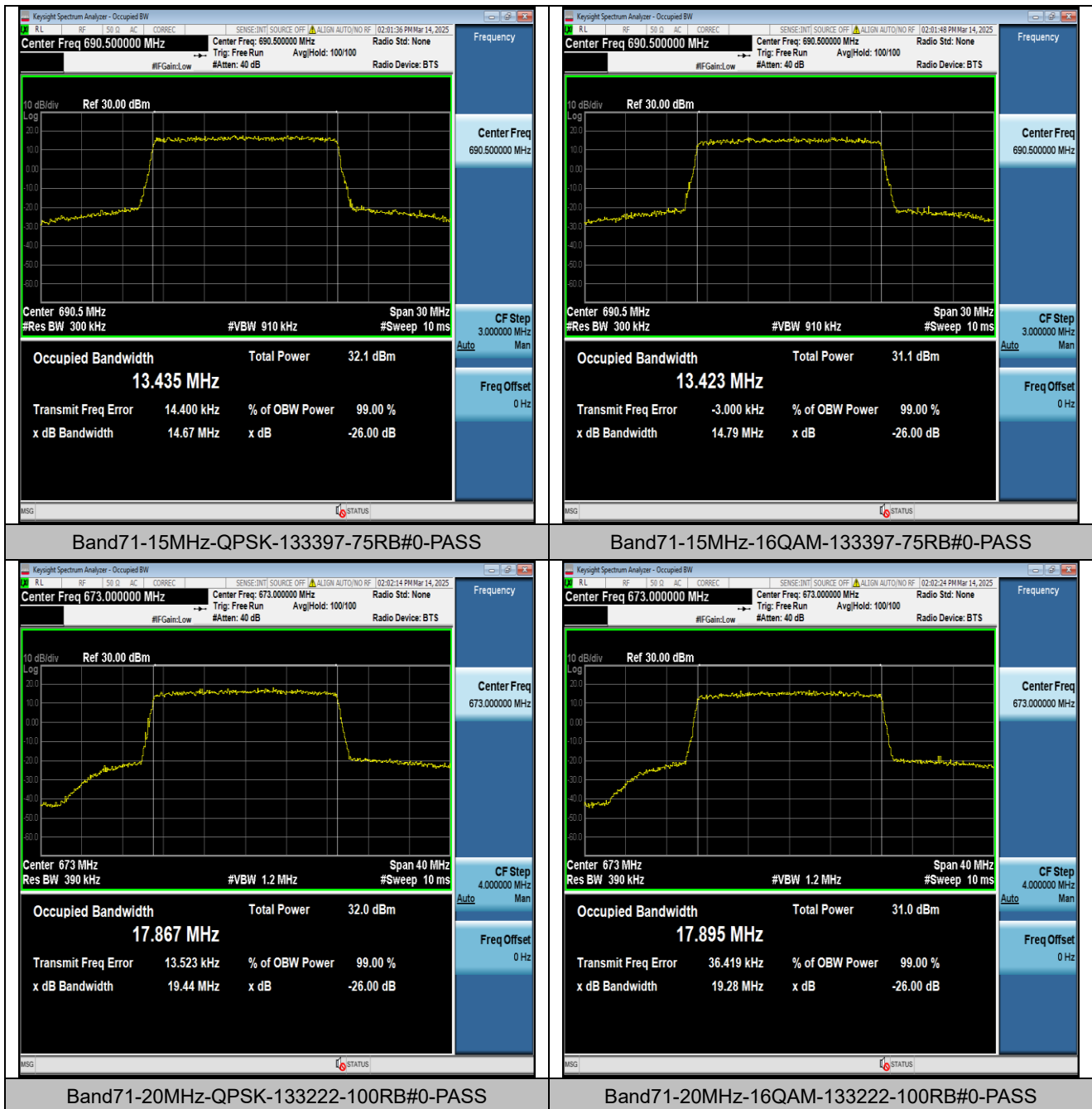
Test Graphs

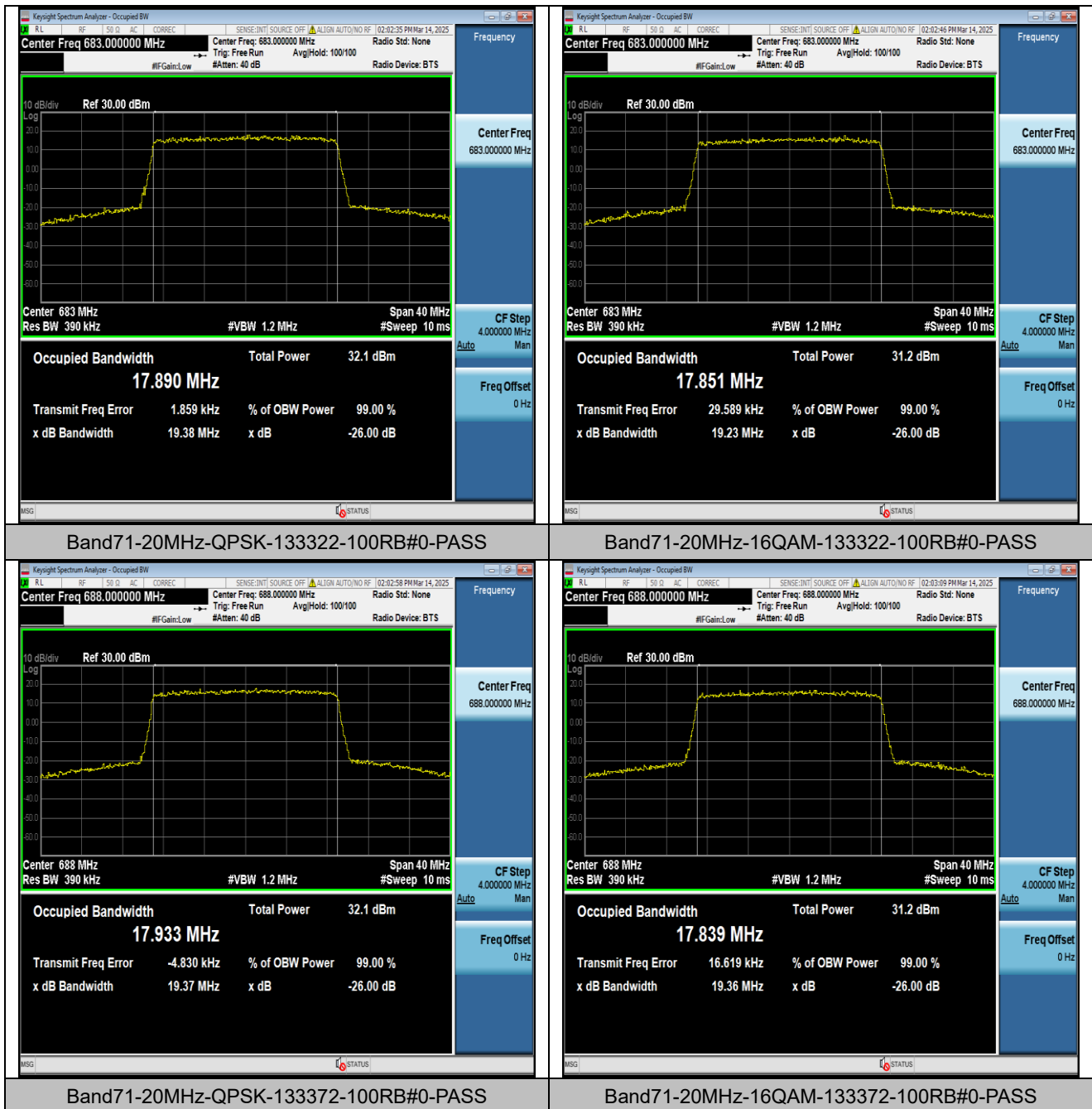






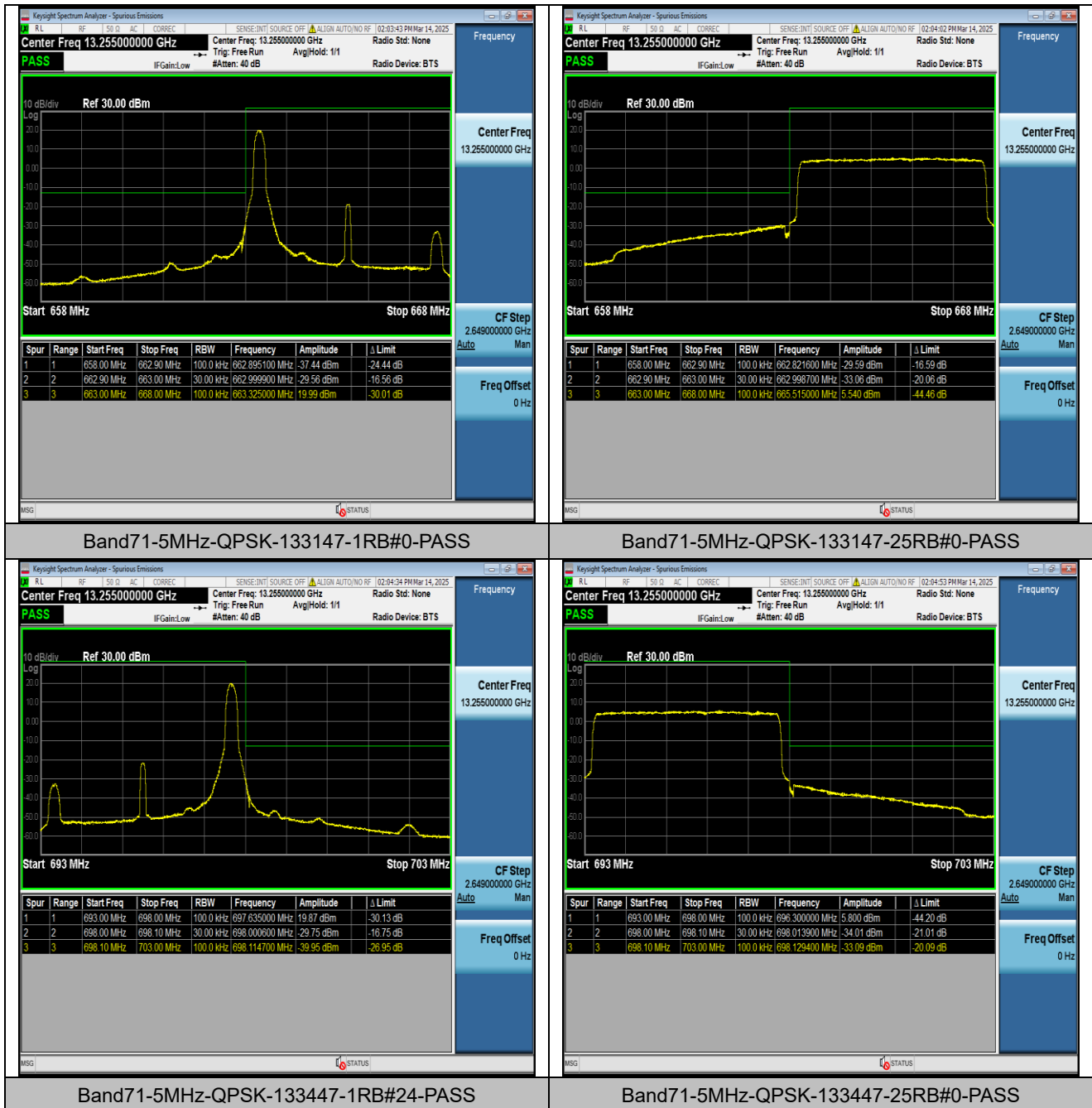


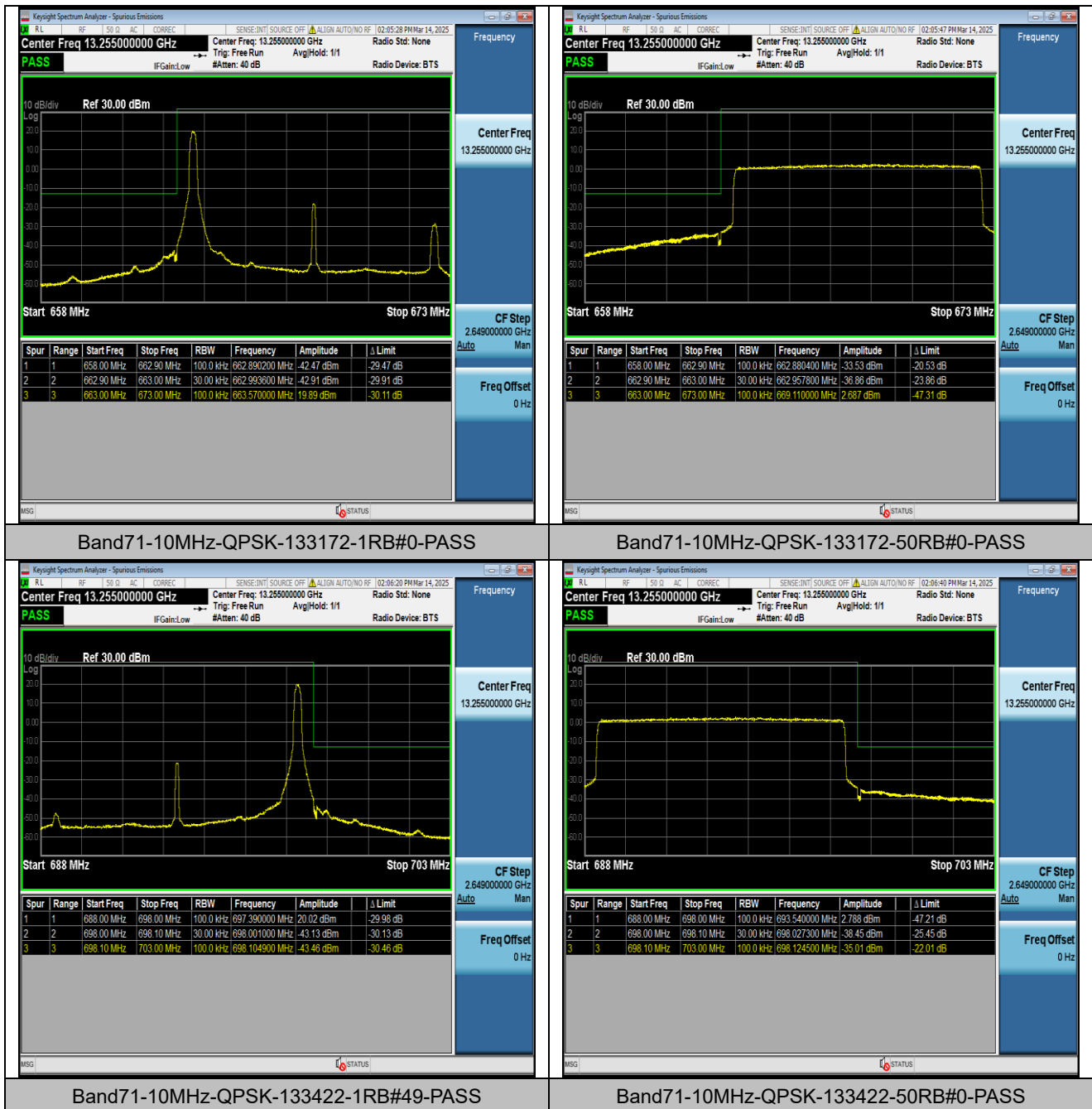


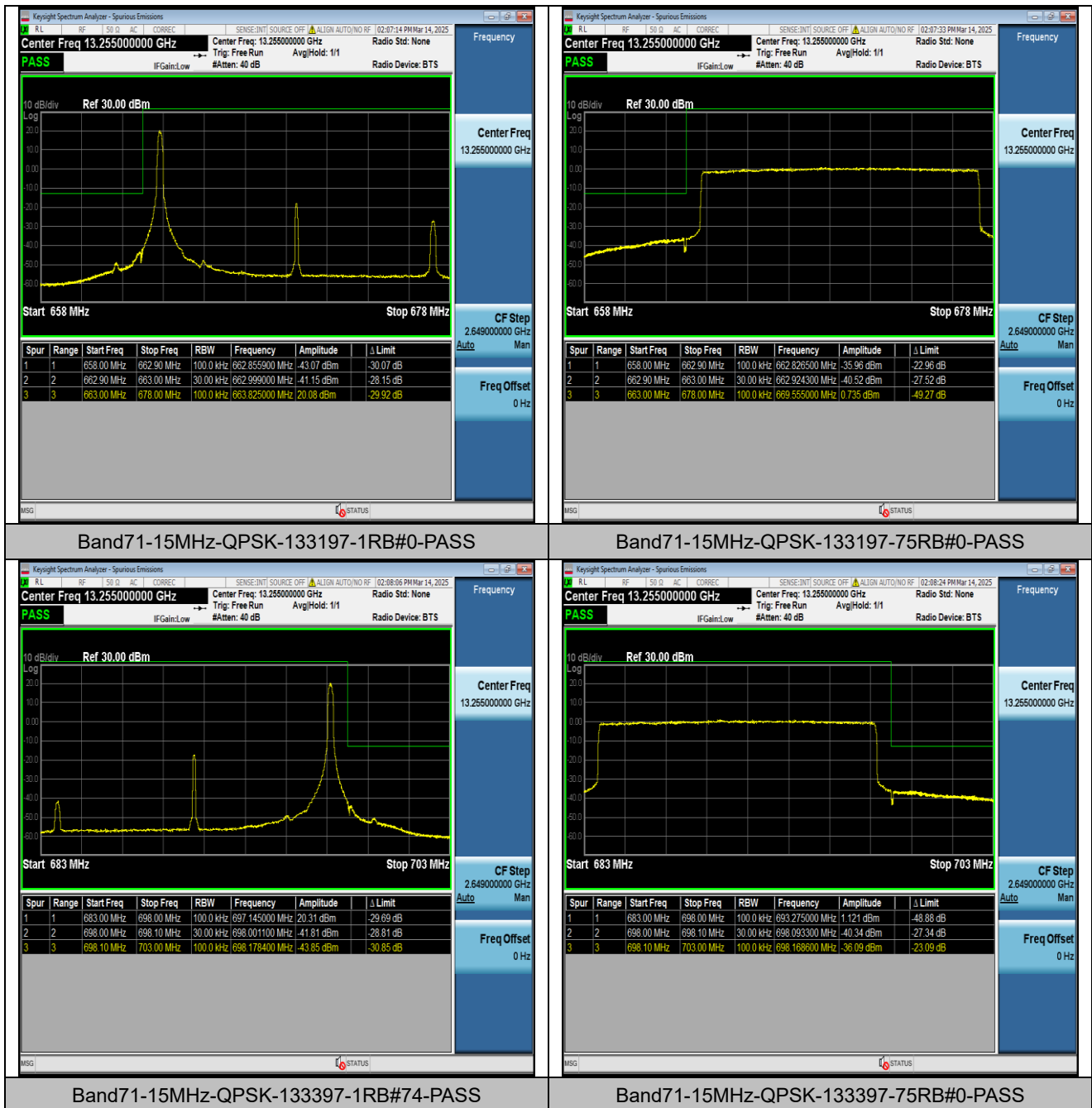


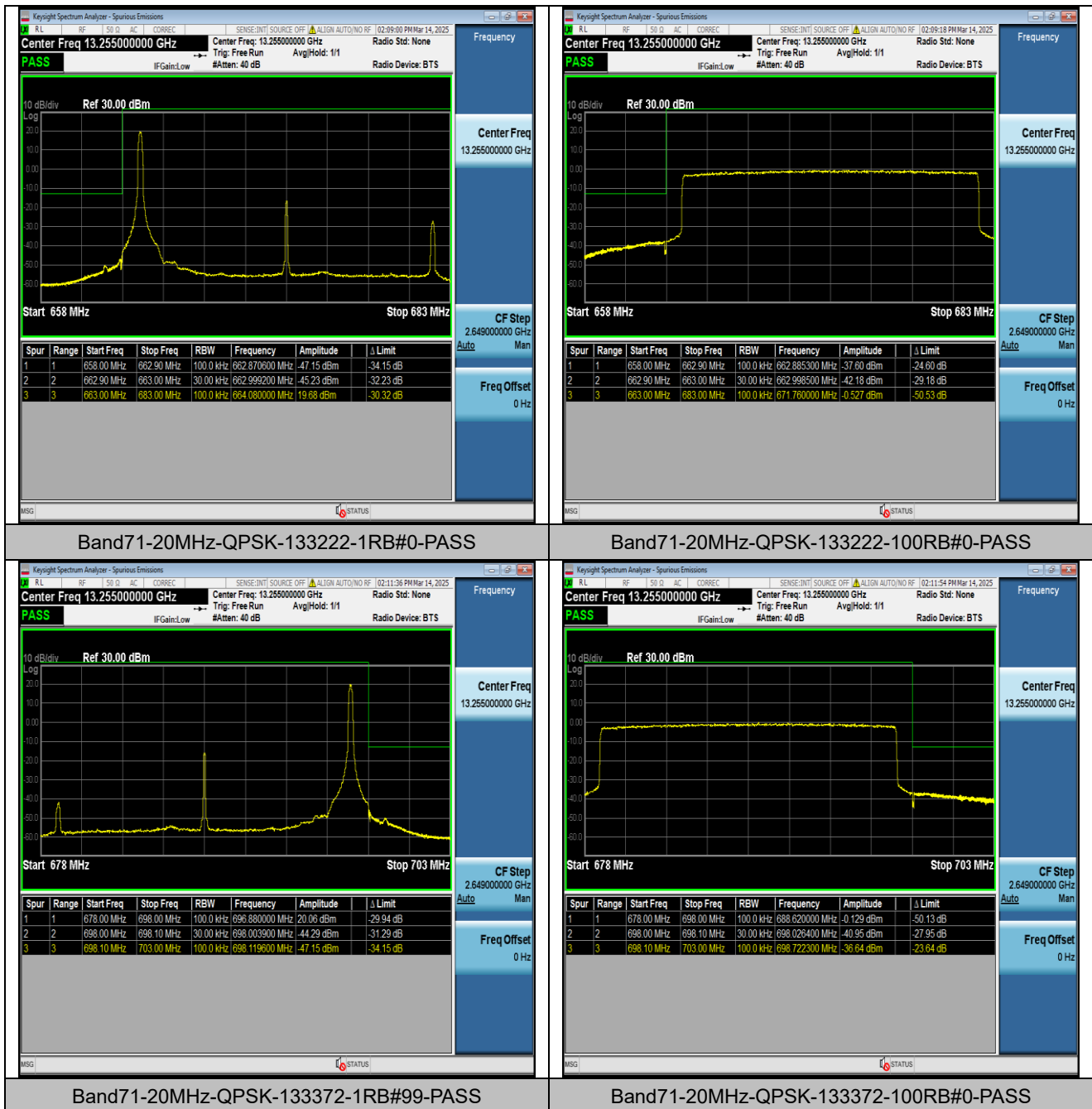
Band Edge

Test Graphs



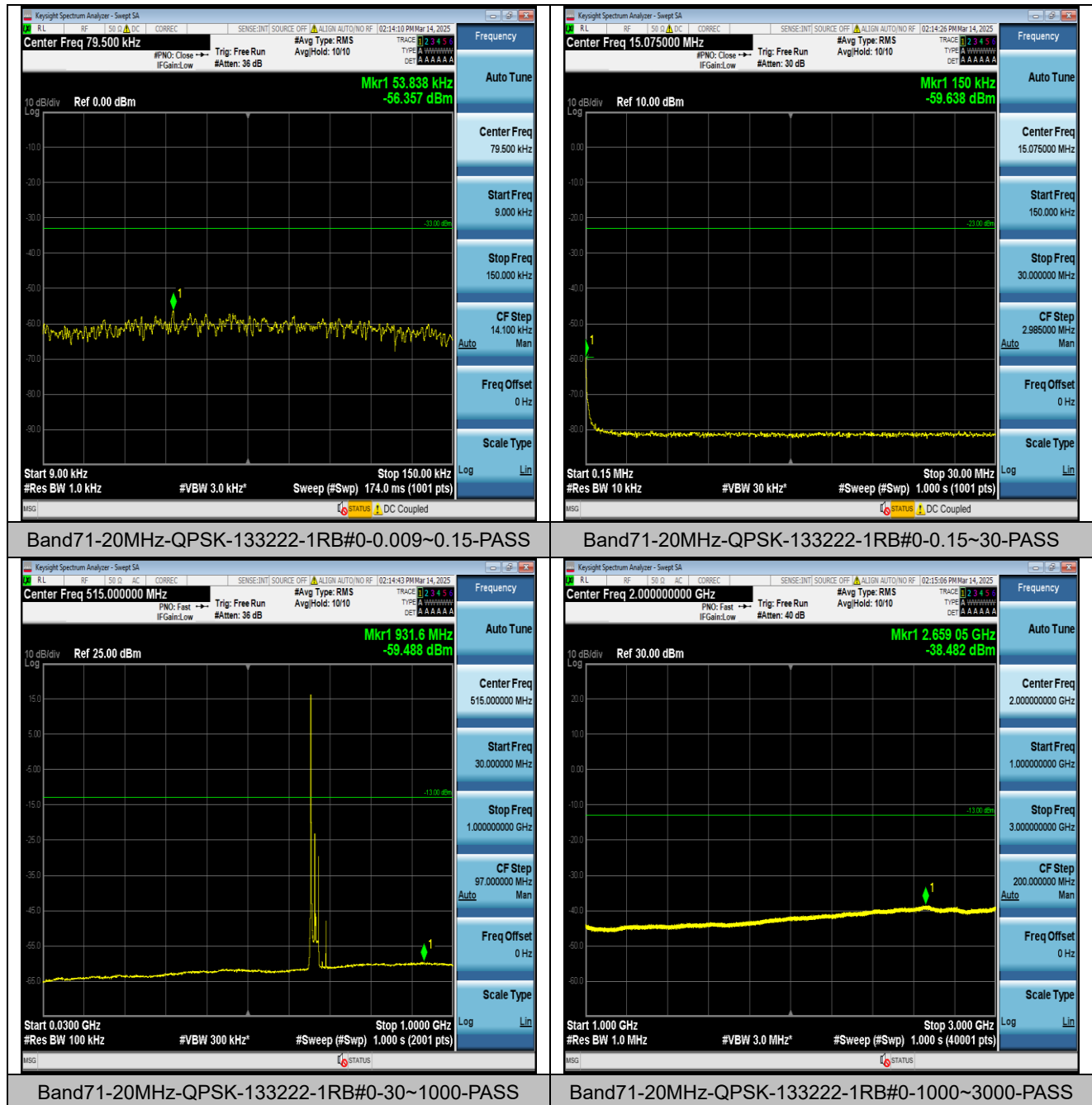


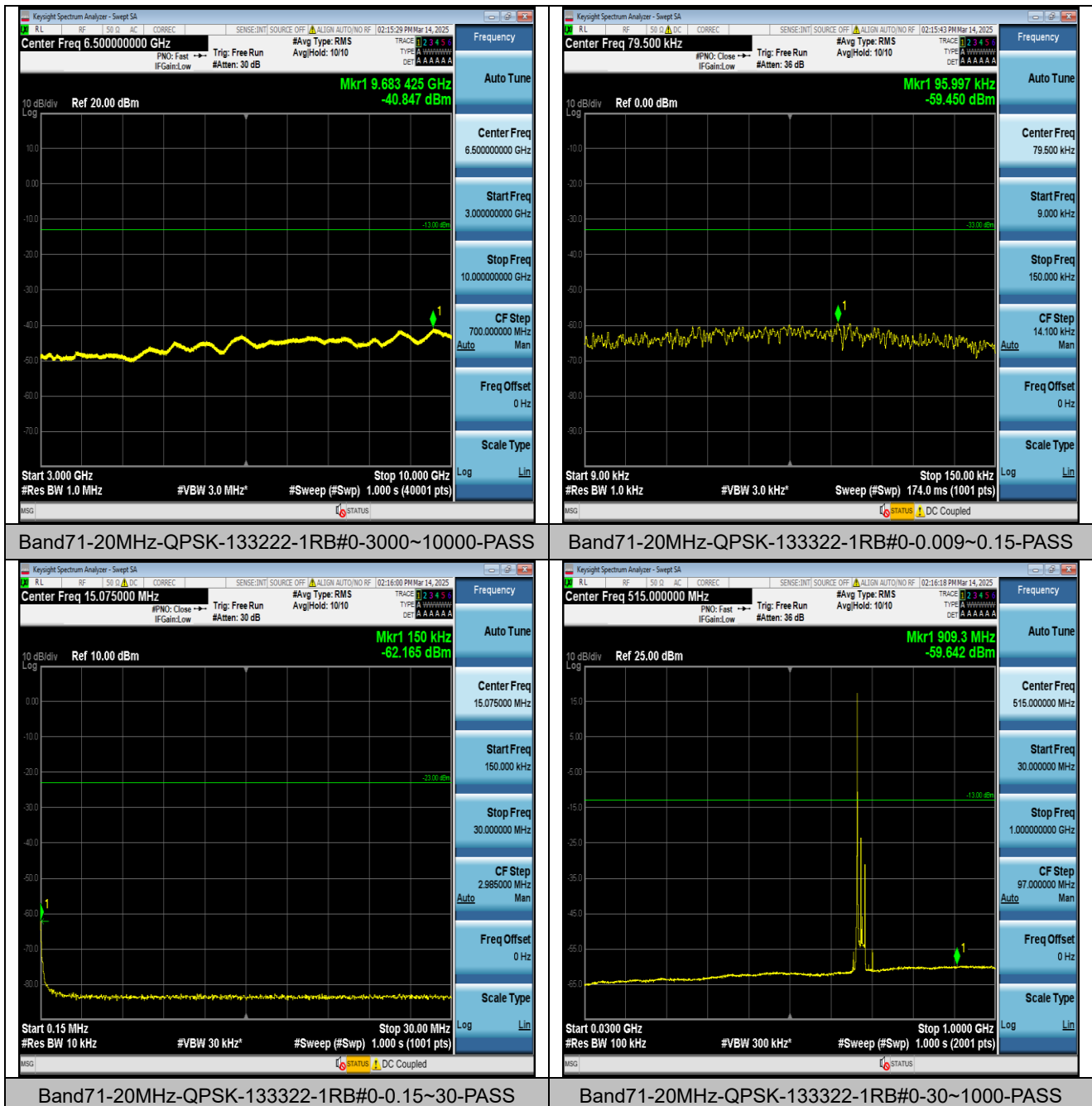




Conducted Spurious Emission

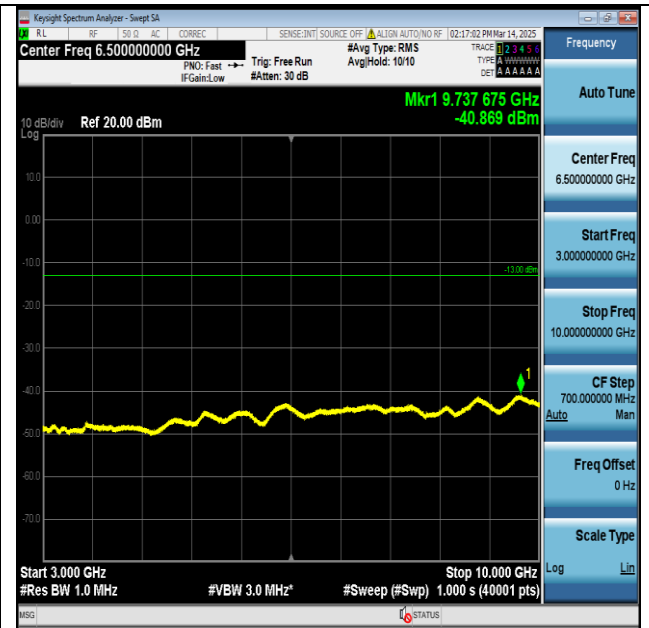
Test Graphs



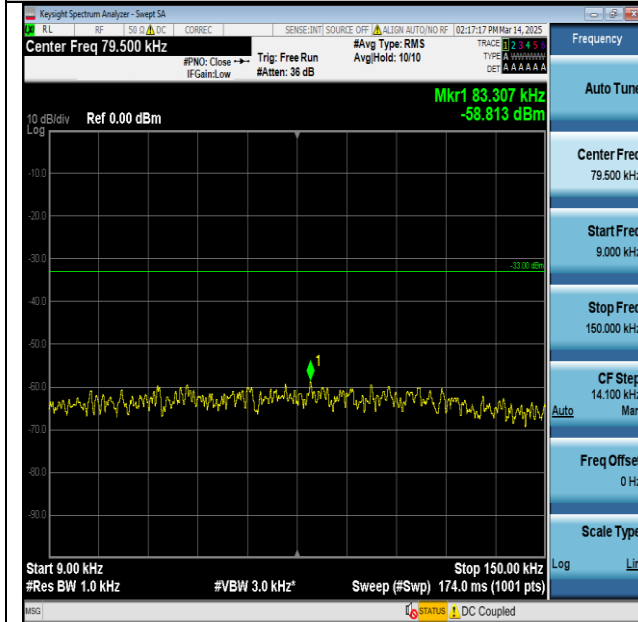




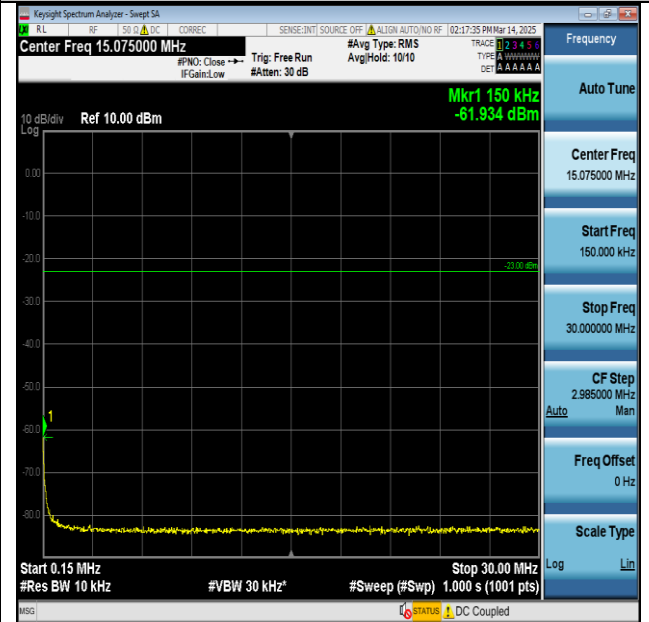
Band71-20MHz-QPSK-133322-1RB#0-1000~3000-PASS



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



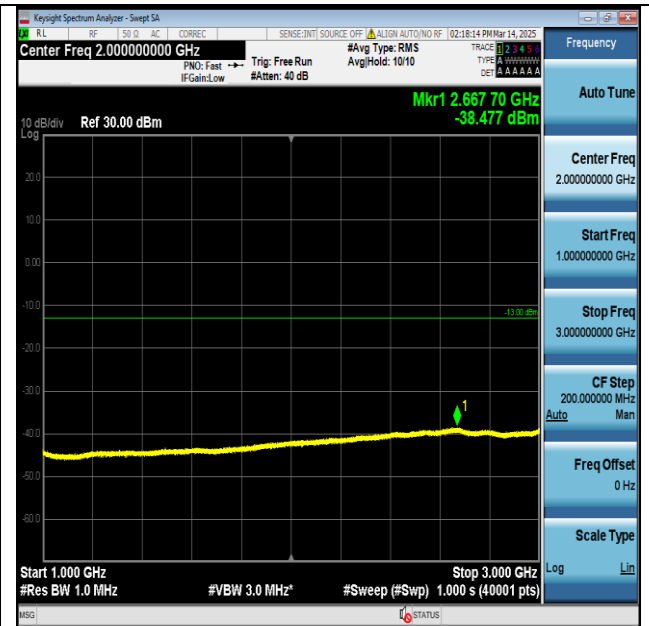
Band71-20MHz-QPSK-133372-1RB#0-0.009~0.15-PASS



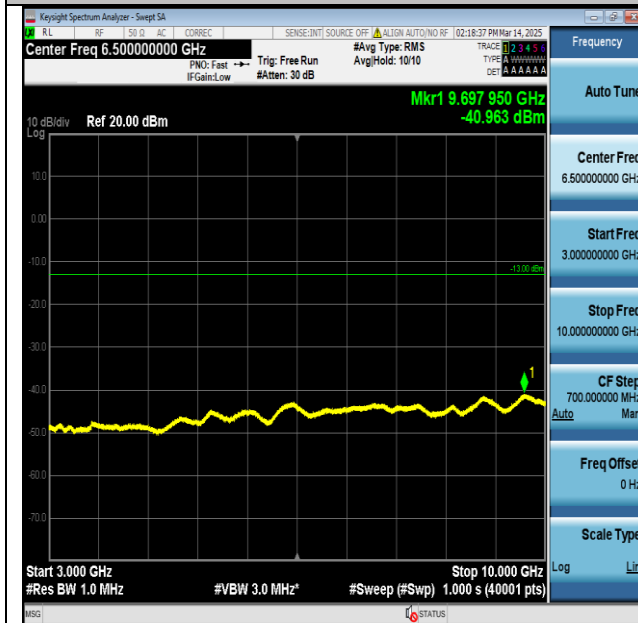
Band71-20MHz-QPSK-133372-1RB#0-0.15~30-PASS



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	-0.40	-0.000586	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.10	-0.003075	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.30	0.000439	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	-0.80	-0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-2.10	-0.003075	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	0.70	0.001025	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-0.50	-0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-0.40	-0.000586	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.00	0.000000	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-0.50	-0.000732	PASS

~The End~