

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	23.13	22.64	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.78	22.29	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.07	22.58	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.95	21.46	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.22	21.73	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.73	21.24	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.09	21.6	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.01	20.52	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.79	22.3	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.49	22	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.87	22.38	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.82	21.33	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.74	21.25	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.63	21.14	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.12	21.63	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.79	20.3	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.91	22.42	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.11	21.62	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.42	21.93	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.48	20.99	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.84	21.35	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.51	21.02	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.49	21	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.42	19.93	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.04	22.55	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.03	22.54	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.51	23.02	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.21	21.72	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.19	21.7	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.07	21.58	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.5	22.01	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	21	20.51	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.91	22.42	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.69	22.2	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.34	22.85	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.95	21.46	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#0	22.04	21.55	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.9	21.41	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.55	22.06	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	20.9	20.41	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.17	22.68	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.89	22.4	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.45	21.96	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.82	21.33	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.21	21.72	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.08	21.59	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.48	20.99	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	21.17	20.68	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.9	22.41	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.46	22.97	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.05	22.56	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.39	21.9	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.89	21.4	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.68	22.19	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.17	21.68	34.77	PASS
Band71	15MHz	16QAM	133197	27RB#0	21.16	20.67	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.24	22.75	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.81	22.32	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.28	22.79	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.09	21.6	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.51	22.02	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.87	21.38	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.27	21.78	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	21.15	20.66	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.86	22.37	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.03	22.54	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.41	21.92	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.06	21.57	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.27	21.78	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.14	21.65	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.56	21.07	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	21.3	20.81	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.95	22.46	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.81	23.32	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.3	22.81	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.49	22	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.41	21.92	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.85	22.36	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.33	21.84	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	21.26	20.77	34.77	PASS

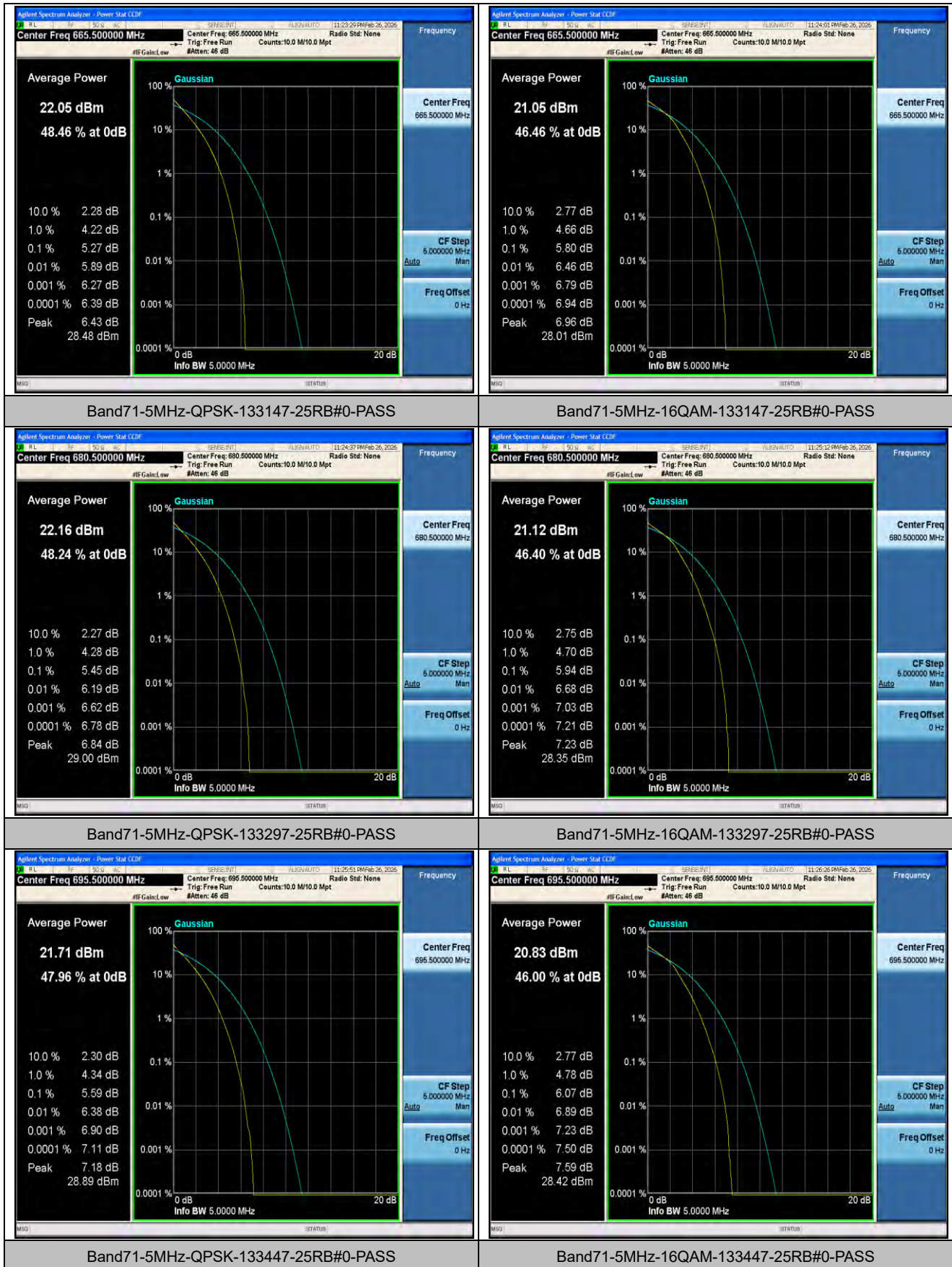
Band71	20MHz	QPSK	133322	1RB#0	23.18	22.69	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.02	22.53	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.02	22.53	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.21	21.72	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.48	21.99	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.01	21.52	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.1	21.61	34.77	PASS
Band71	20MHz	16QAM	133322	27RB#0	21.21	20.72	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.65	22.16	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.37	22.88	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.53	22.04	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.22	21.73	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.84	21.35	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.63	22.14	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.64	21.15	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	20.99	20.5	34.77	PASS

Peak-to-Average Ratio(CCDF)

Test Result

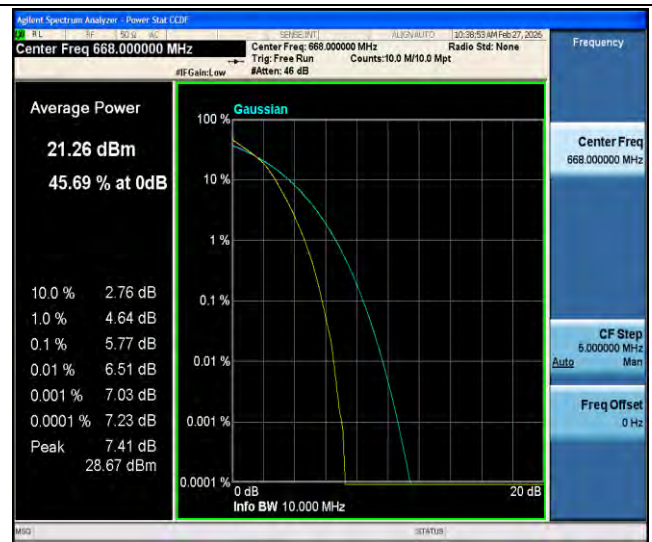
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.27	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	5.80	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.45	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	5.94	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.59	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.07	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.26	13	PASS
Band71	10MHz	16QAM	133172	27RB#0	5.77	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.48	13	PASS
Band71	10MHz	16QAM	133297	27RB#0	5.98	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.68	13	PASS
Band71	10MHz	16QAM	133422	27RB#0	6.02	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.06	13	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.76	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.22	13	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.98	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.16	13	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.75	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.41	13	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.68	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.20	13	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.96	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.21	13	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.89	13	PASS

Test Graphs





Band71-10MHz-QPSK-133172-50RB#0-PASS



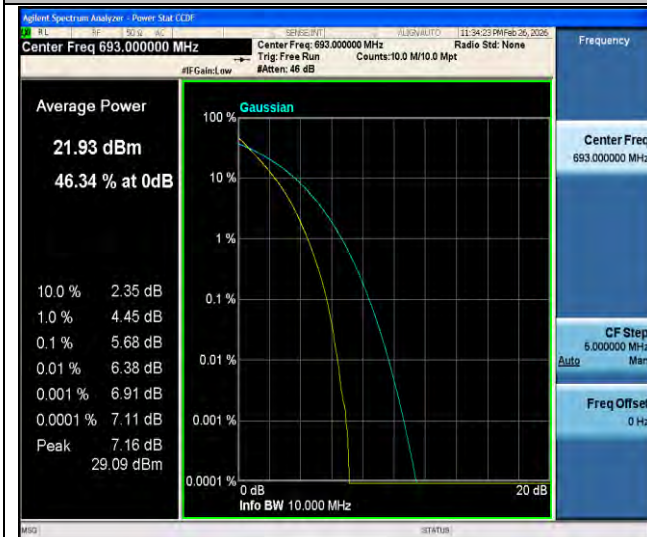
Band71-10MHz-16QAM-133172-27RB#0-PASS



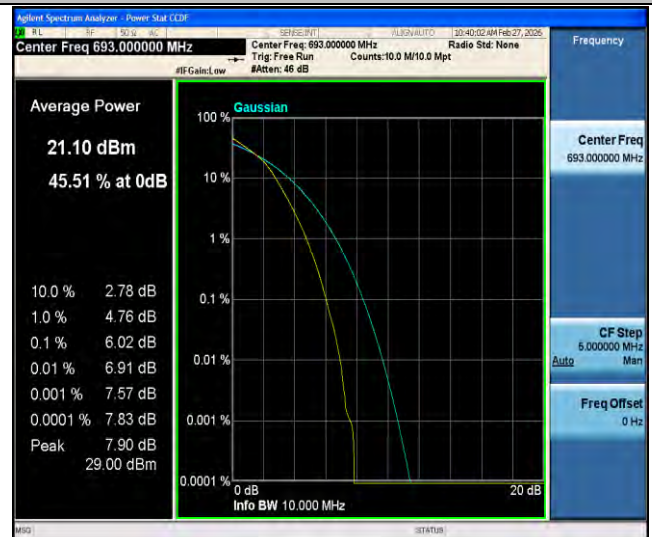
Band71-10MHz-QPSK-133297-50RB#0-PASS



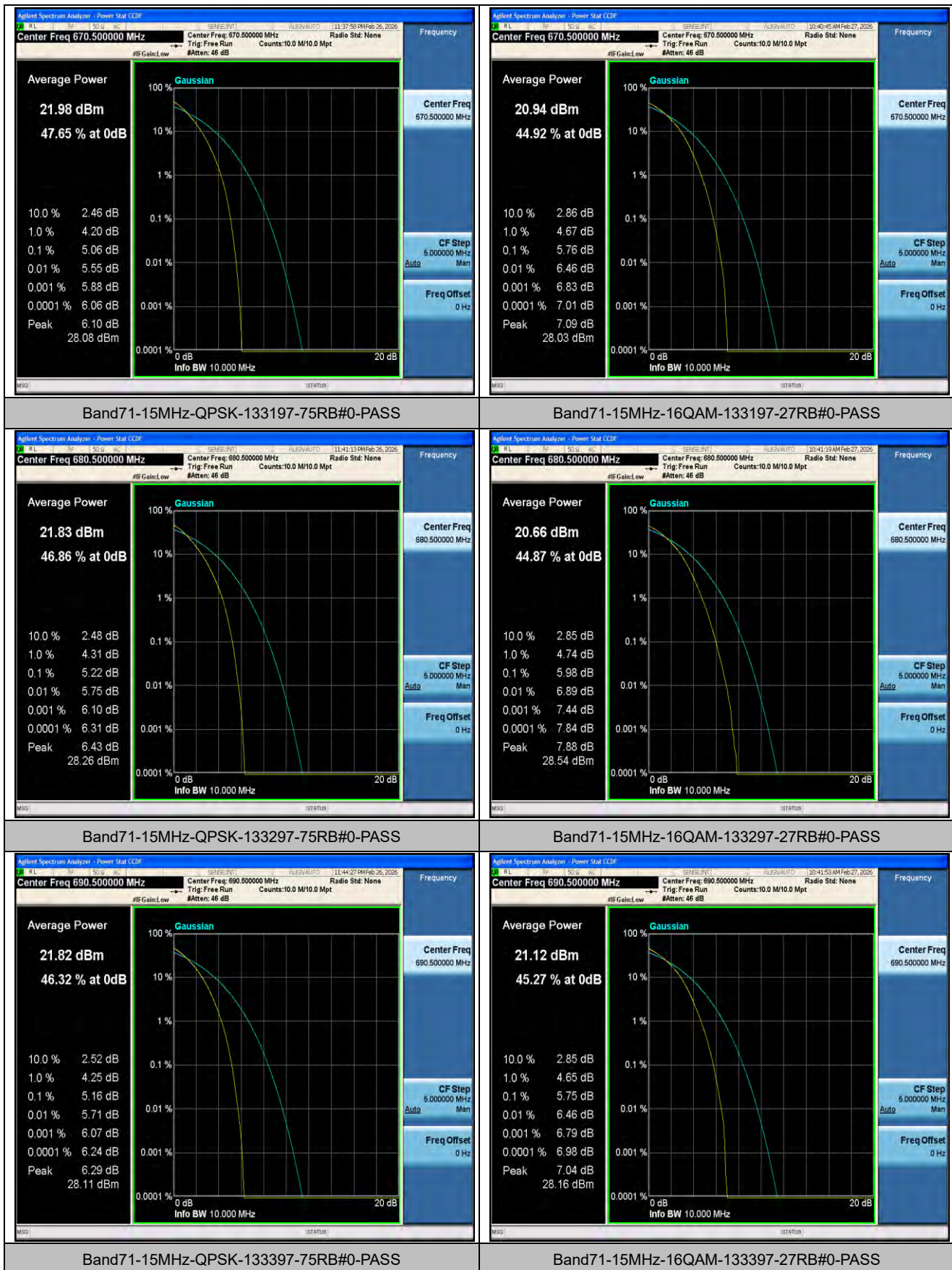
Band71-10MHz-16QAM-133297-27RB#0-PASS

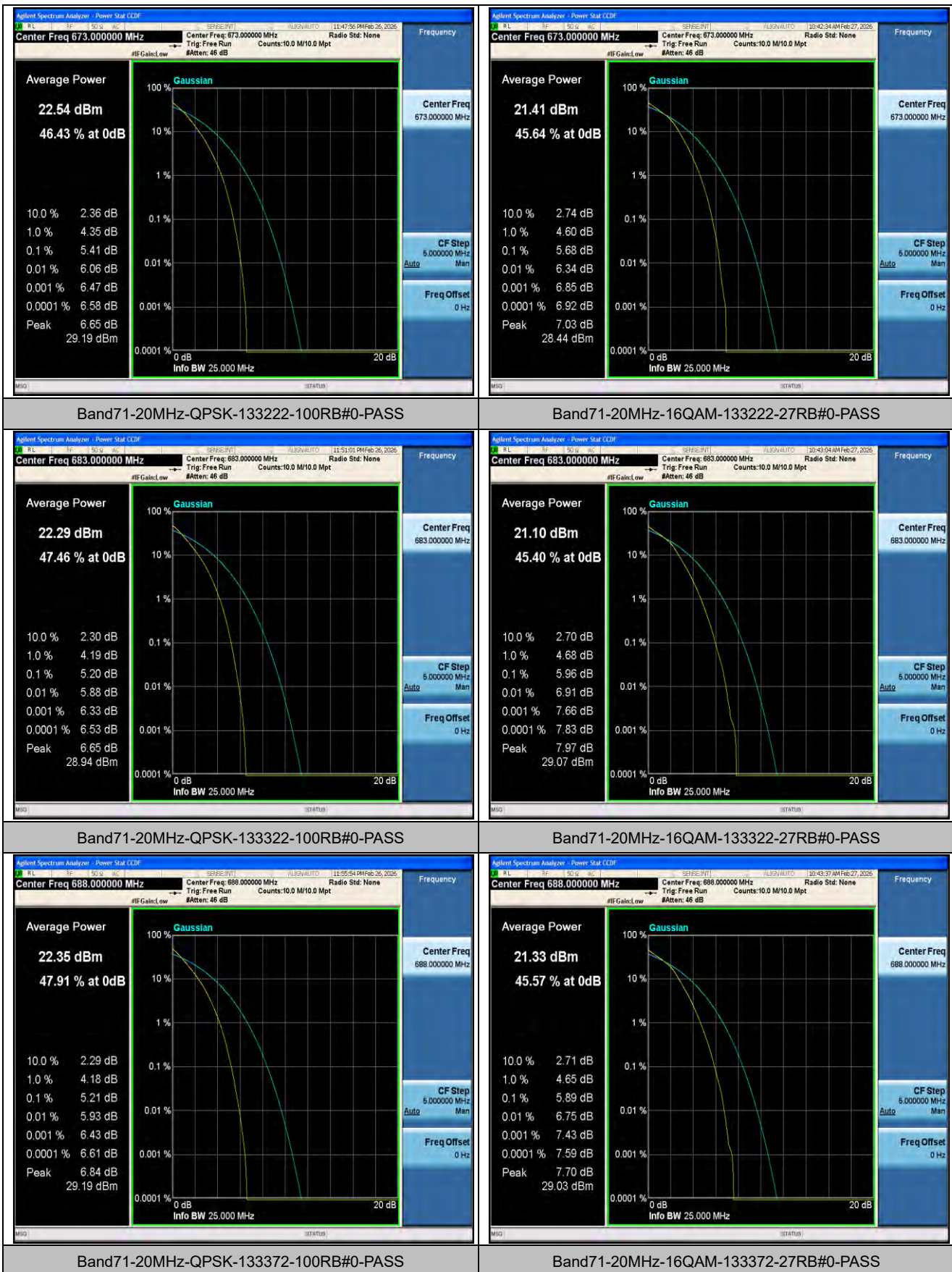


Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-10MHz-16QAM-133422-27RB#0-PASS



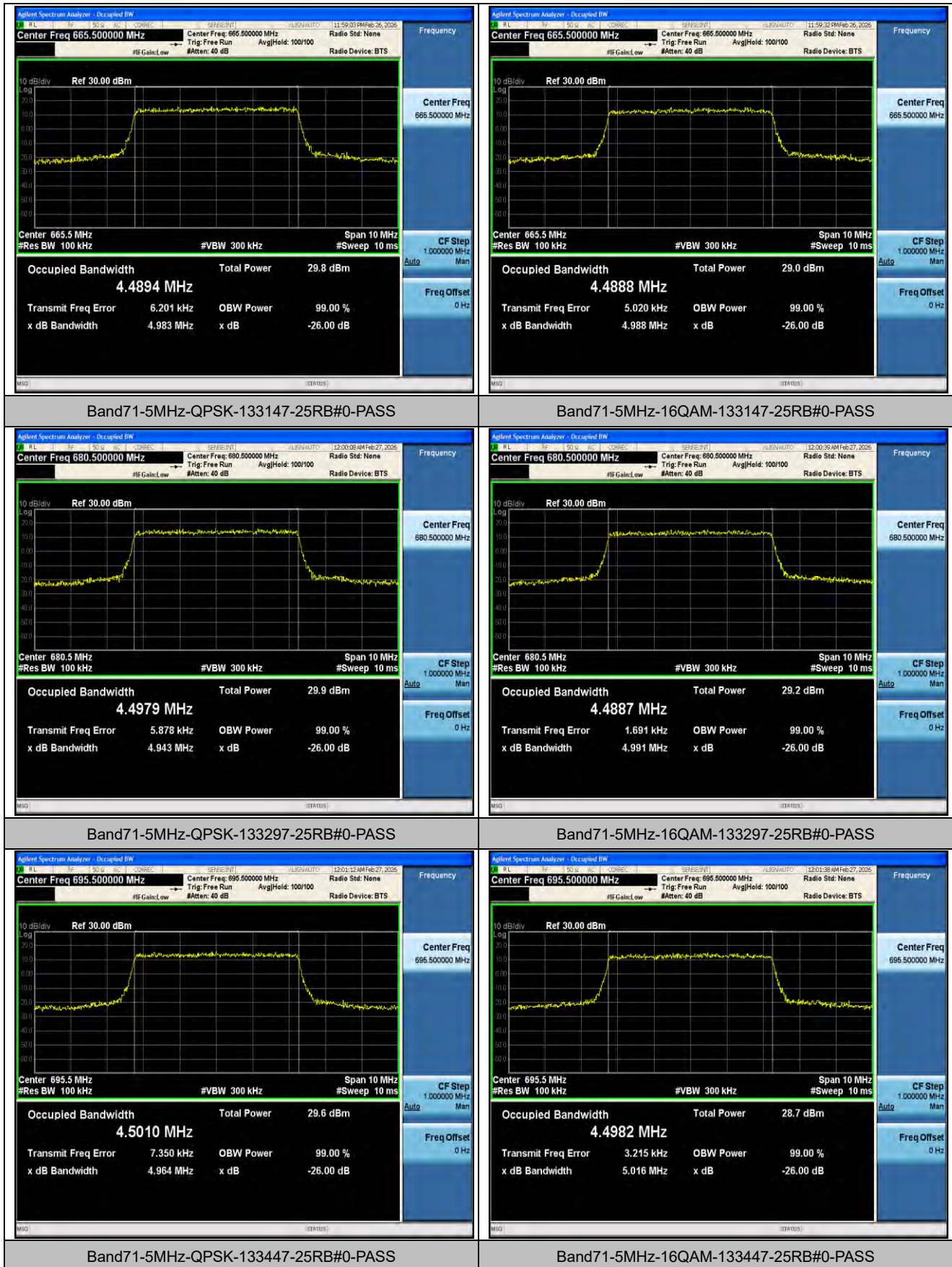


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4894	4.983	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4888	4.988	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4979	4.943	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4887	4.991	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5010	4.964	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4982	5.016	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9866	9.977	PASS
Band71	10MHz	16QAM	133172	27RB#0	5.0014	6.180	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0101	10.15	PASS
Band71	10MHz	16QAM	133297	27RB#0	5.0016	6.181	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0147	10.19	PASS
Band71	10MHz	16QAM	133422	27RB#0	4.9968	6.174	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.493	15.14	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.1618	6.631	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.528	15.16	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.2153	6.685	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.511	15.13	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.1762	6.713	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.022	19.96	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.3489	7.205	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.952	19.76	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.4355	7.190	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.912	20.02	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.3879	7.170	PASS

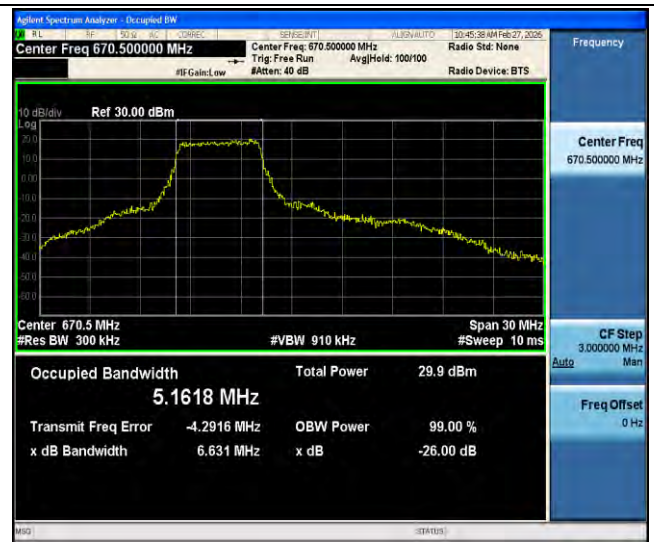
Test Graphs







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



Band71-15MHz-16QAM-133197-27RB#0-PASS



Band71-15MHz-QPSK-133297-75RB#0-PASS



Band71-15MHz-16QAM-133297-27RB#0-PASS



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



Band71-15MHz-16QAM-133397-27RB#0-PASS



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



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



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



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



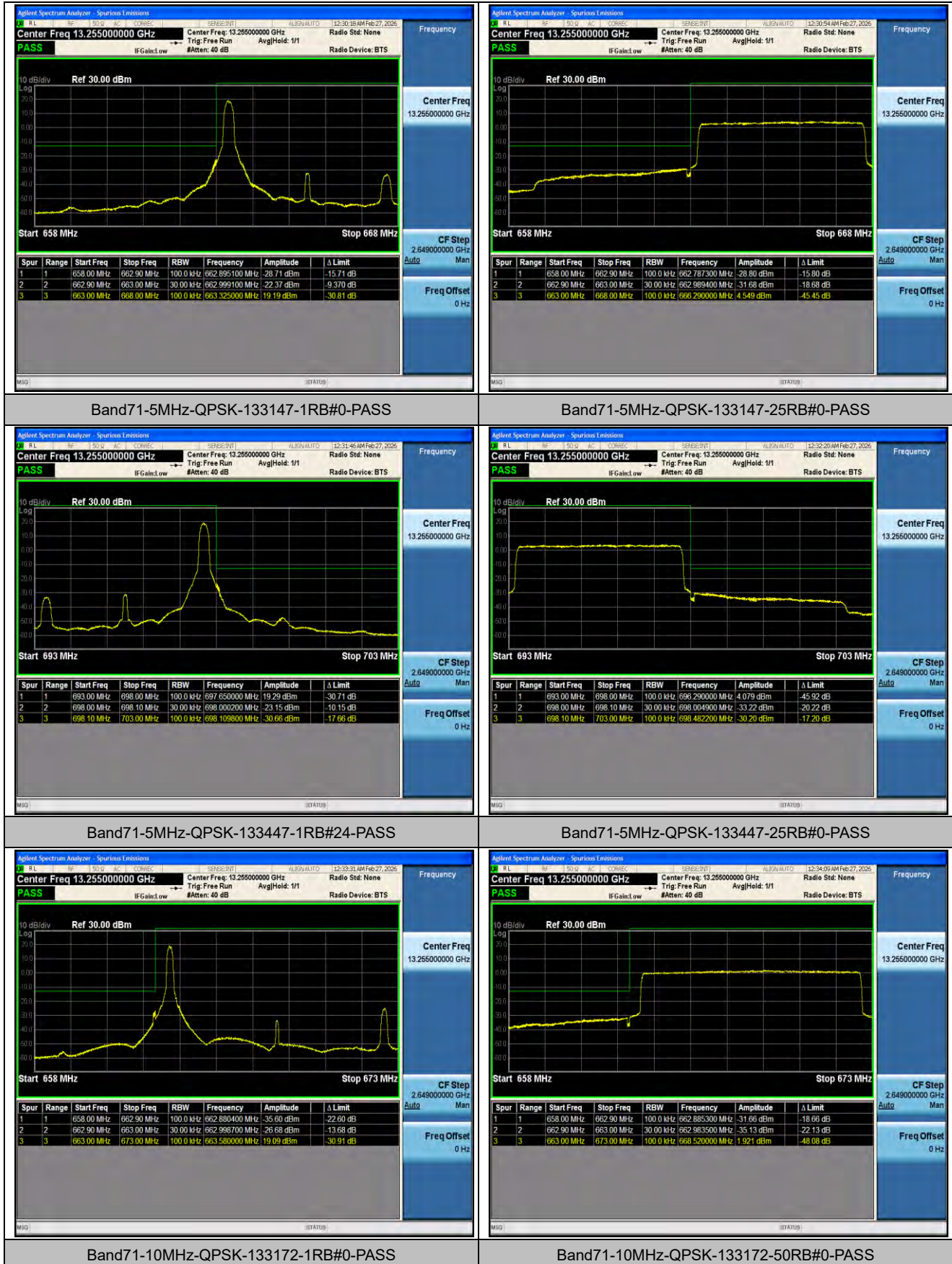
Band71-20MHz-QPSK-133372-100RB#0-PASS



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

Band Edge

Test Graphs

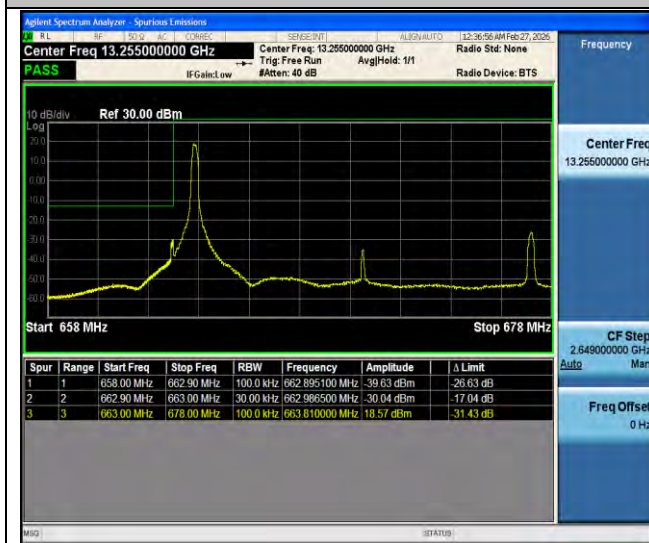




Band71-10MHz-QPSK-133422-1RB#49-PASS



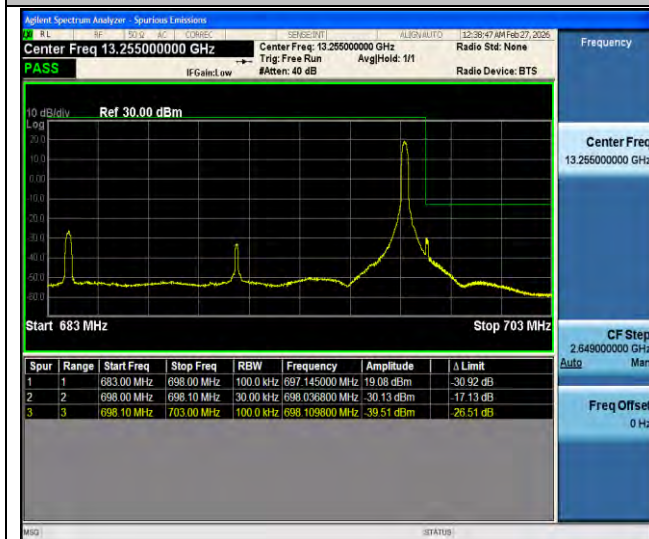
Band71-10MHz-QPSK-133422-50RB#0-PASS



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



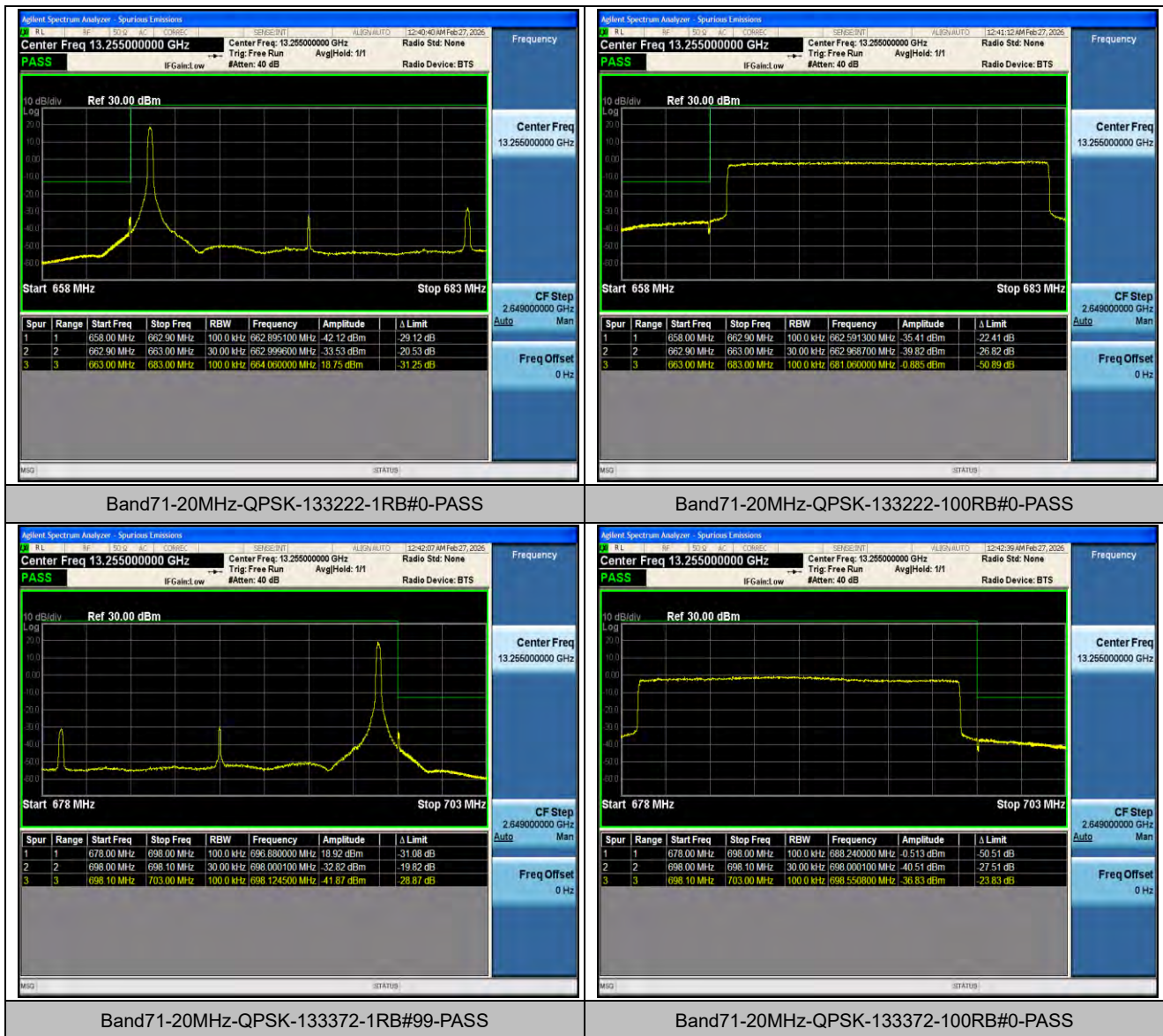
Band71-15MHz-QPSK-133197-75RB#0-PASS



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

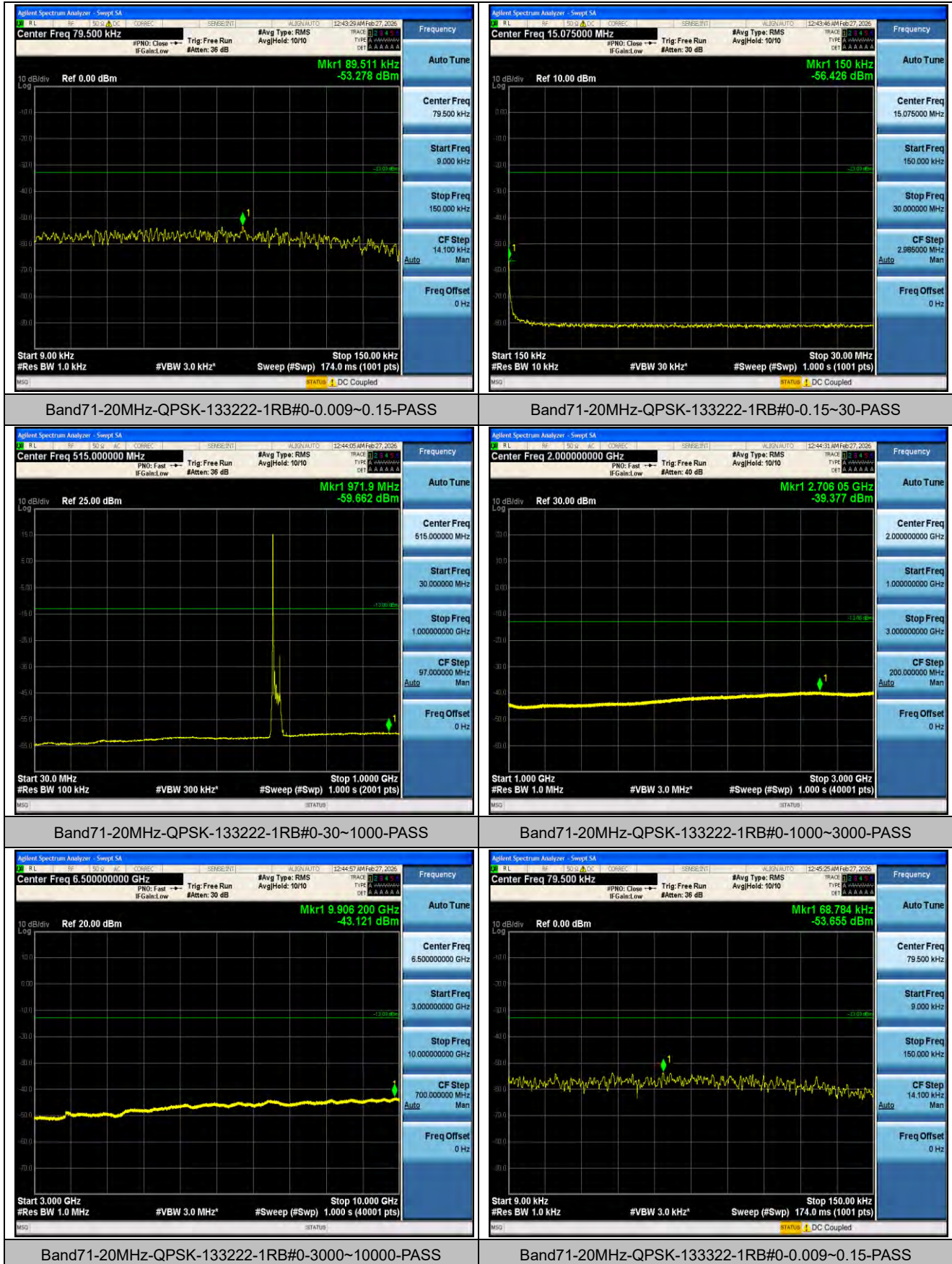


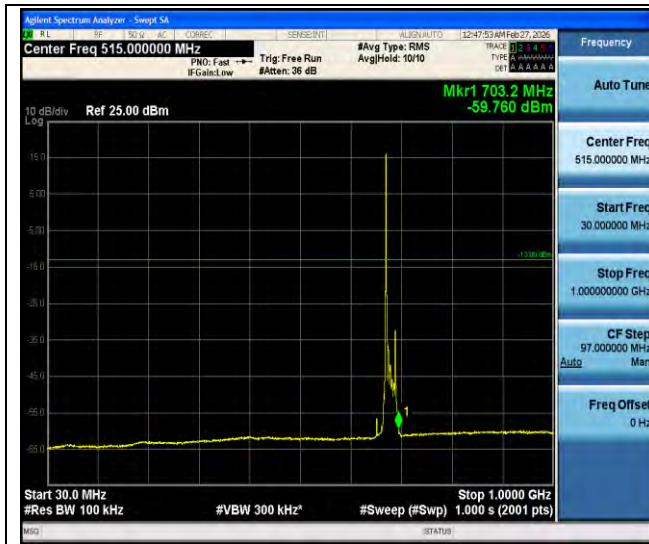
Band71-15MHz-QPSK-133397-75RB#0-PASS



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	-0.40	-0.000586	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-1.70	-0.002489	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-0.40	-0.000586	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	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	0.10	0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.00	0.000000	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	0.00	0.000000	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-0.10	-0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.00	-0.001464	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-0.10	-0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-0.20	-0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.70	-0.002489	PASS

~The End~