

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	22.61	22.46	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.61	22.46	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.65	22.5	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.9	21.75	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.04	21.89	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.66	21.51	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.85	21.7	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.81	20.66	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.09	22.94	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.06	22.91	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.26	23.11	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.21	22.06	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.02	21.87	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.25	22.1	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.35	22.2	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.15	21	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.61	22.46	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.92	22.77	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.13	22.98	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22	21.85	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.84	21.69	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.59	21.44	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.39	22.24	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.95	20.8	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.43	23.28	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.05	22.9	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.71	22.56	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.31	22.16	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.44	22.29	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.37	22.22	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.98	21.83	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	21.65	21.5	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.85	22.7	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.04	22.89	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.91	22.76	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.09	21.94	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#0	21.98	21.83	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.14	21.99	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.92	21.77	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	21.26	21.11	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.31	23.16	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.7	22.55	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.46	23.31	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.29	22.14	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.31	22.16	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.08	21.93	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.51	22.36	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	21.28	21.13	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.52	23.37	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.75	22.6	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.02	22.87	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.31	22.16	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.59	22.44	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22	21.85	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.27	22.12	34.77	PASS
Band71	15MHz	16QAM	133197	27RB#0	21.9	21.75	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.55	22.4	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.17	23.02	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.45	22.3	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.96	21.81	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.68	21.53	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.07	21.92	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.39	21.24	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	21	20.85	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.31	23.16	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.01	22.86	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.17	23.02	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.22	22.07	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.98	21.83	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.17	22.02	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.45	22.3	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	21.42	21.27	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.86	23.71	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.53	22.38	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.51	23.36	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.45	22.3	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	23.17	23.02	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.06	21.91	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.81	22.66	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	22.03	21.88	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.91	22.76	34.77	PASS

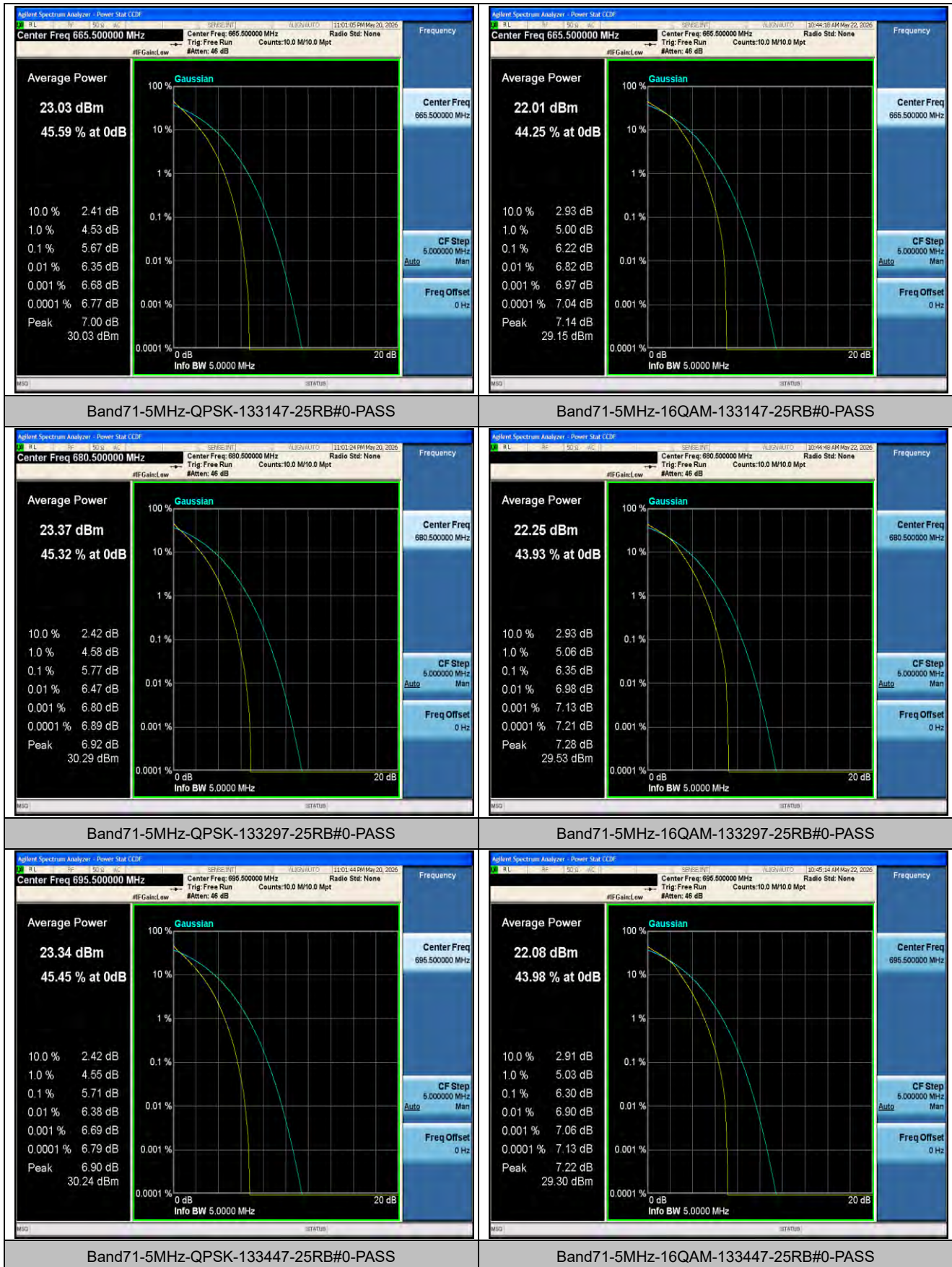
Band71	20MHz	QPSK	133322	1RB#49	23.13	22.98	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.5	22.35	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.16	22.01	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.68	22.53	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.21	22.06	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.78	21.63	34.77	PASS
Band71	20MHz	16QAM	133322	27RB#0	21.23	21.08	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.64	23.49	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.81	22.66	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.15	23	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.24	22.09	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.89	22.74	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.77	21.62	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.37	22.22	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	21.77	21.62	34.77	PASS

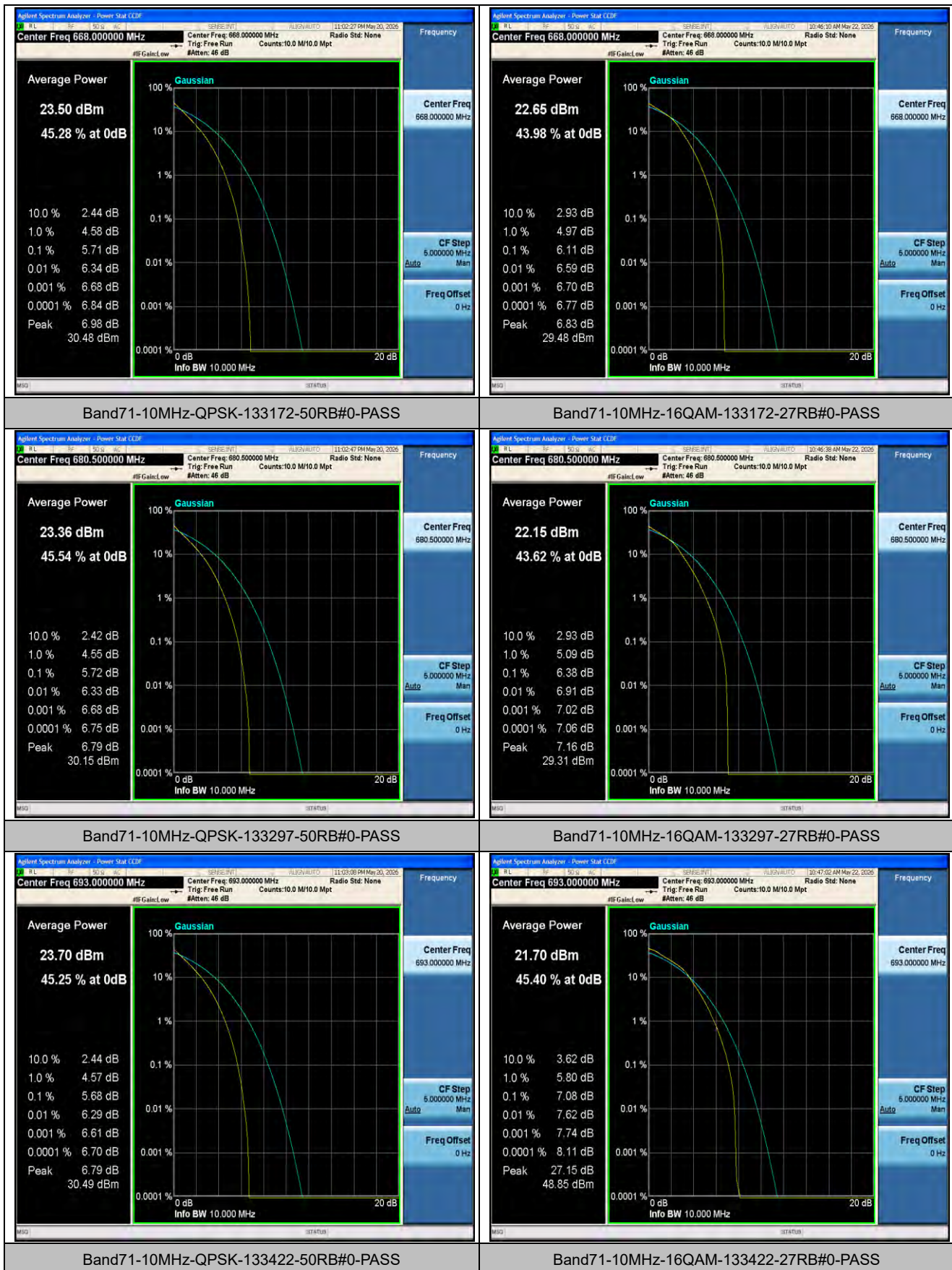
Peak-to-Average Ratio(CCDF)

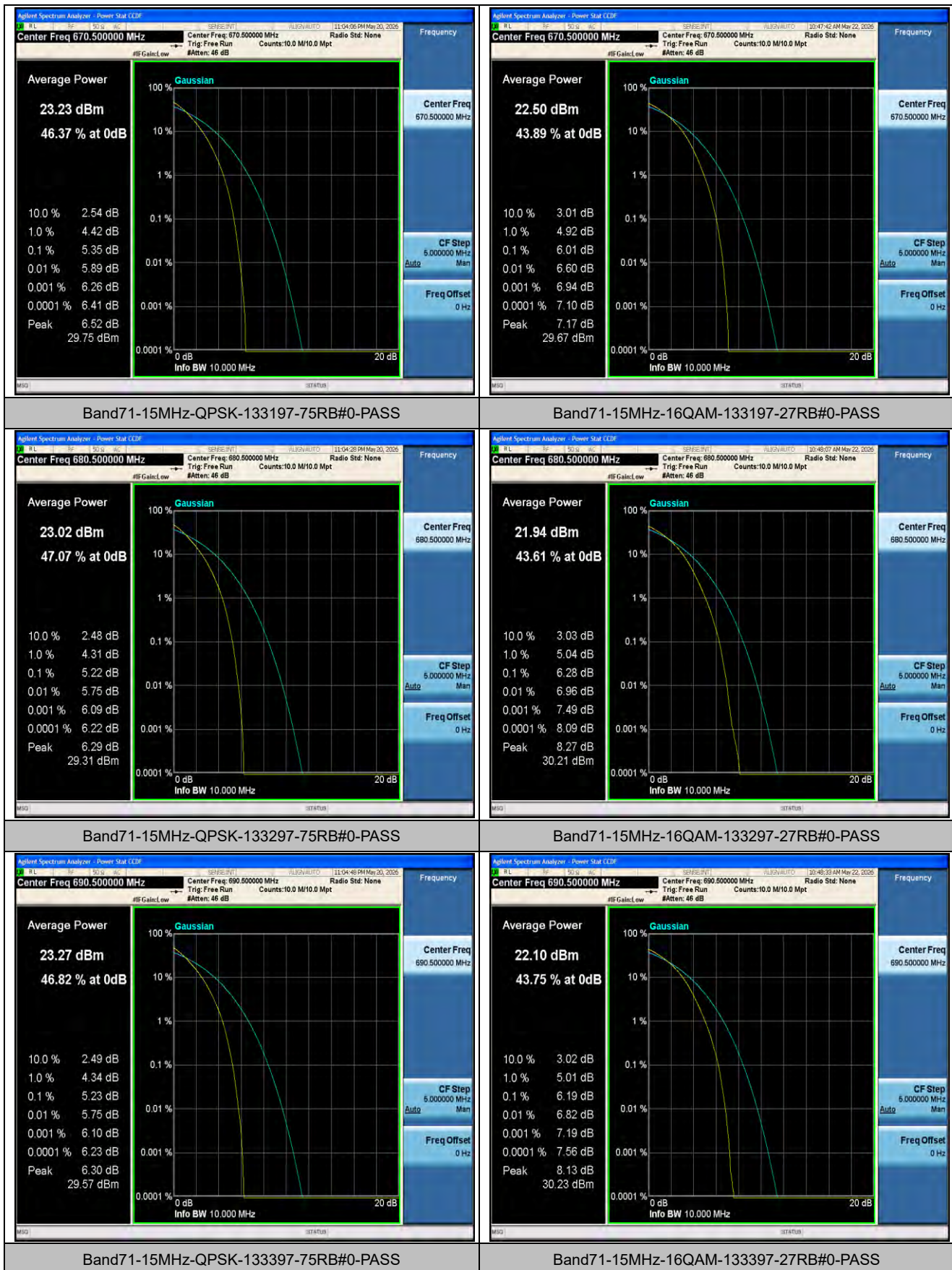
Test Result

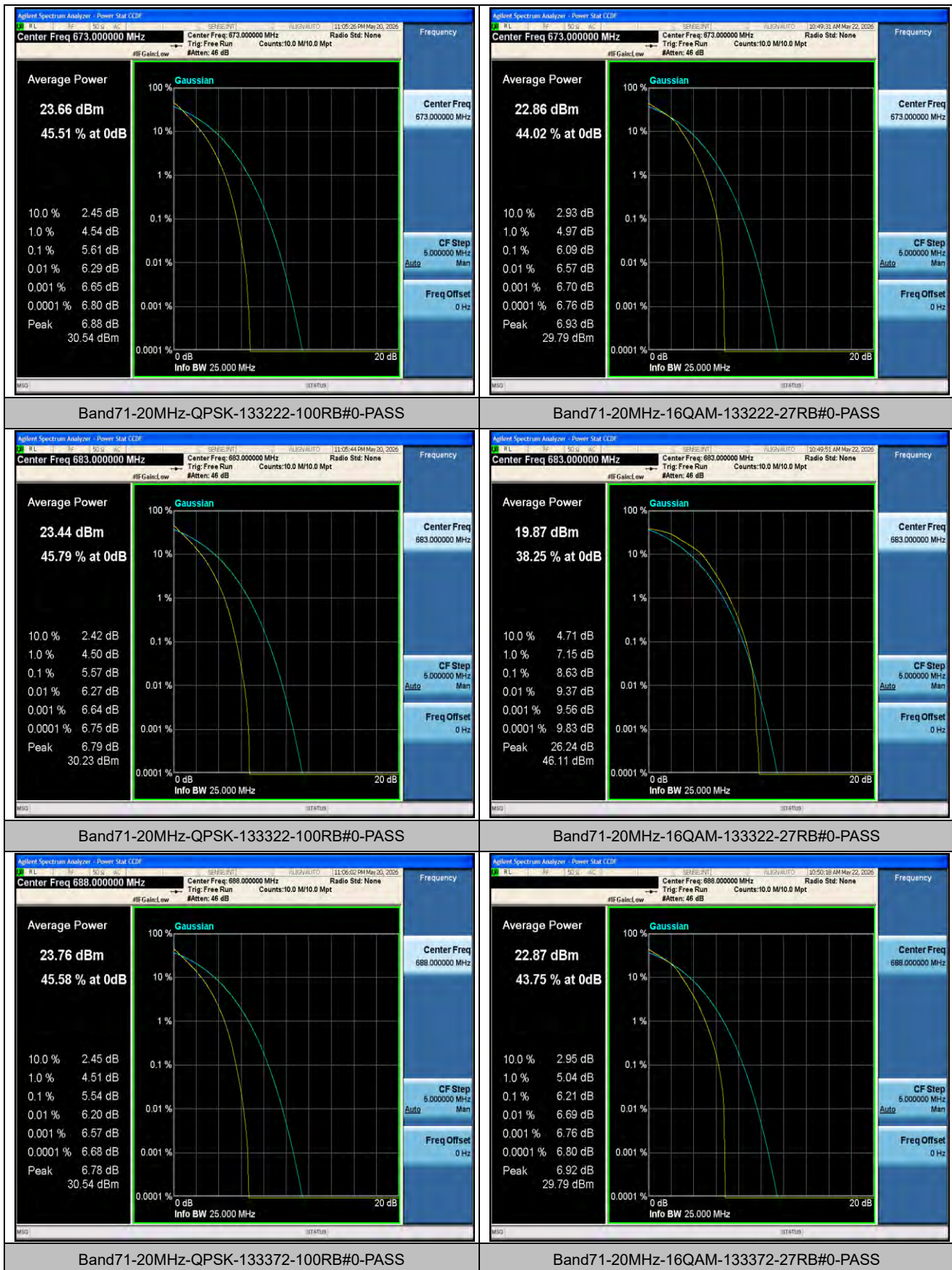
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.67	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.22	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.77	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.35	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.71	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.30	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.71	13	PASS
Band71	10MHz	16QAM	133172	27RB#0	6.11	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.72	13	PASS
Band71	10MHz	16QAM	133297	27RB#0	6.38	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.68	13	PASS
Band71	10MHz	16QAM	133422	27RB#0	7.08	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.35	13	PASS
Band71	15MHz	16QAM	133197	27RB#0	6.01	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.22	13	PASS
Band71	15MHz	16QAM	133297	27RB#0	6.28	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.23	13	PASS
Band71	15MHz	16QAM	133397	27RB#0	6.19	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.61	13	PASS
Band71	20MHz	16QAM	133222	27RB#0	6.09	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.57	13	PASS
Band71	20MHz	16QAM	133322	27RB#0	8.63	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.54	13	PASS
Band71	20MHz	16QAM	133372	27RB#0	6.21	13	PASS

Test Graphs









26dB Bandwidth and Occupied Bandwidth

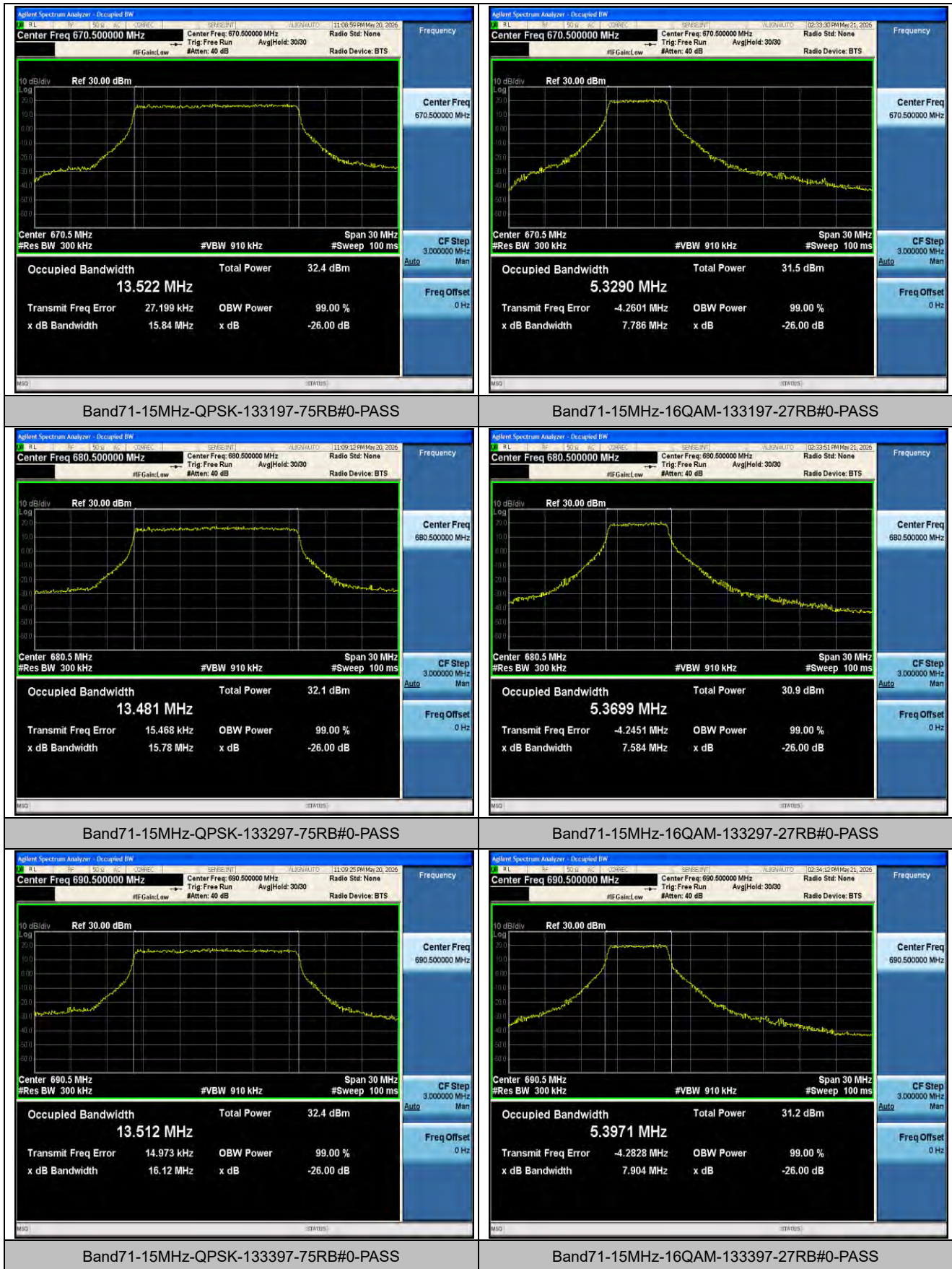
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5050	5.469	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5092	5.579	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5112	5.539	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5209	5.592	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5134	5.485	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5206	5.596	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0303	10.52	PASS
Band71	10MHz	16QAM	133172	27RB#0	4.9938	6.413	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0098	10.49	PASS
Band71	10MHz	16QAM	133297	27RB#0	5.0304	6.396	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0293	10.44	PASS
Band71	10MHz	16QAM	133422	27RB#0	5.0122	6.391	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.522	15.84	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.3290	7.786	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.481	15.78	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.3699	7.584	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.512	16.12	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.3971	7.904	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.033	20.57	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.5019	7.873	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.994	20.55	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.5526	7.878	PASS
Band71	20MHz	QPSK	133372	100RB#0	18.010	20.60	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.4953	7.796	PASS

Test Graphs



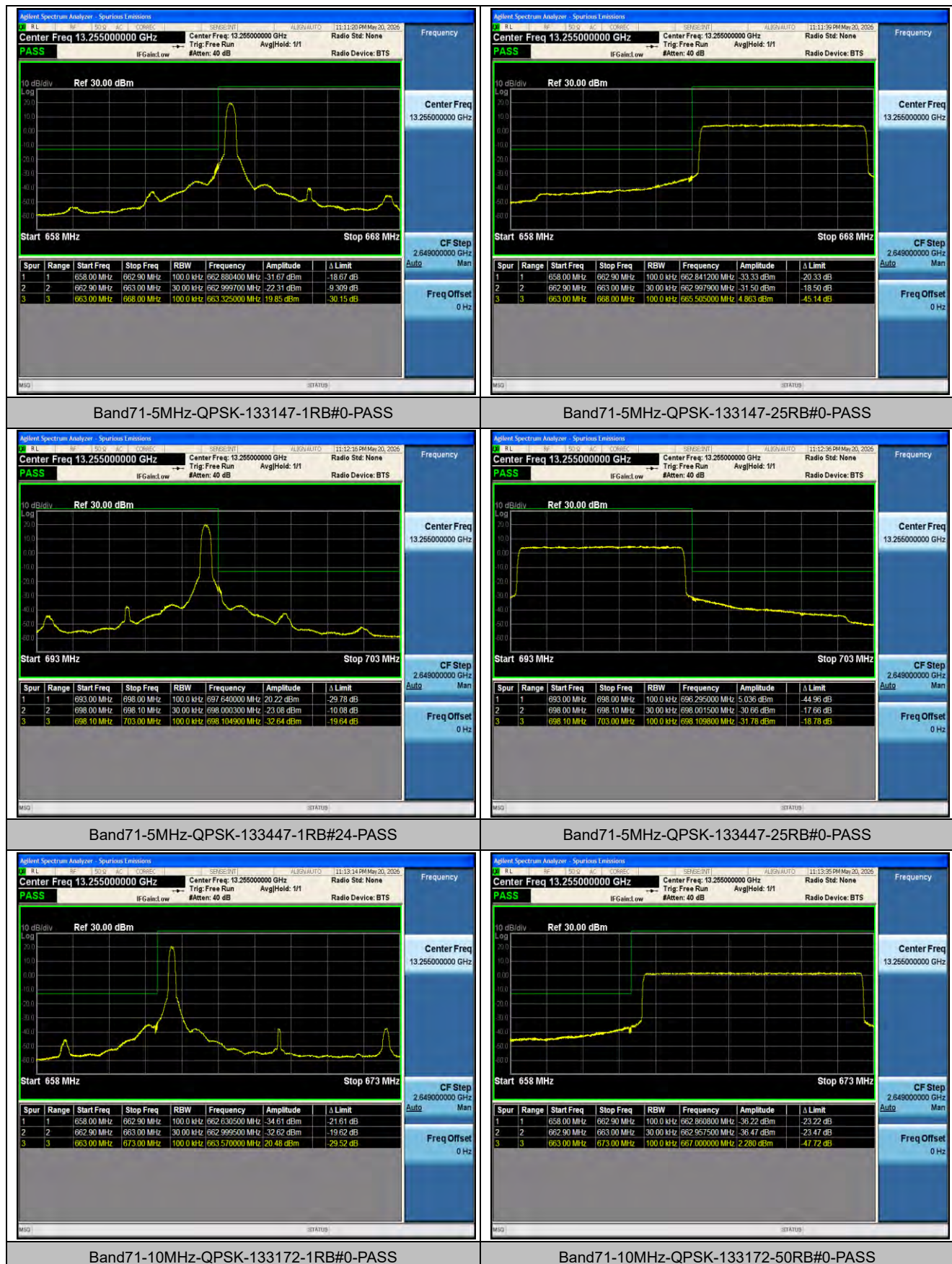






Band Edge

Test Graphs





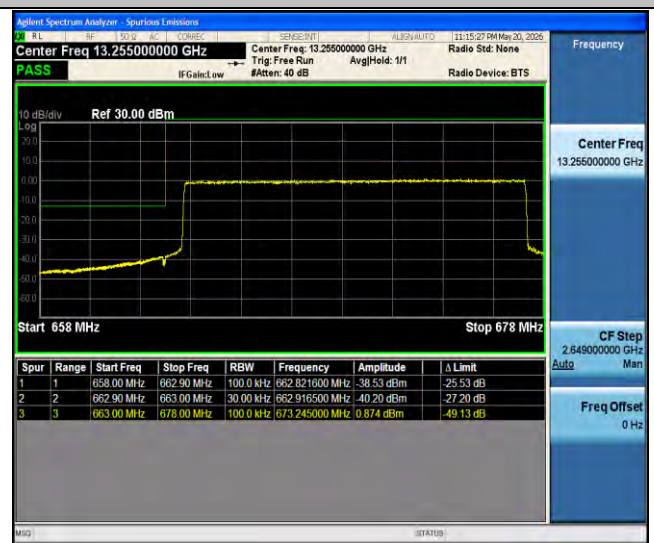
Band71-10MHz-QPSK-133422-1RB#49-PASS



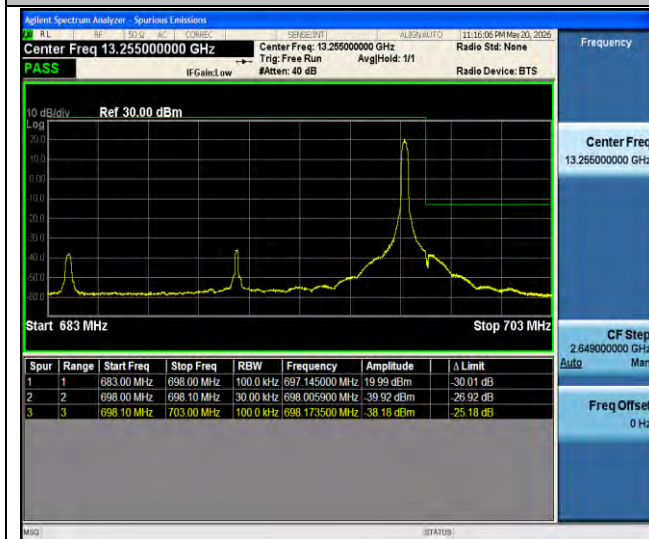
Band71-10MHz-QPSK-133422-50RB#0-PASS



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



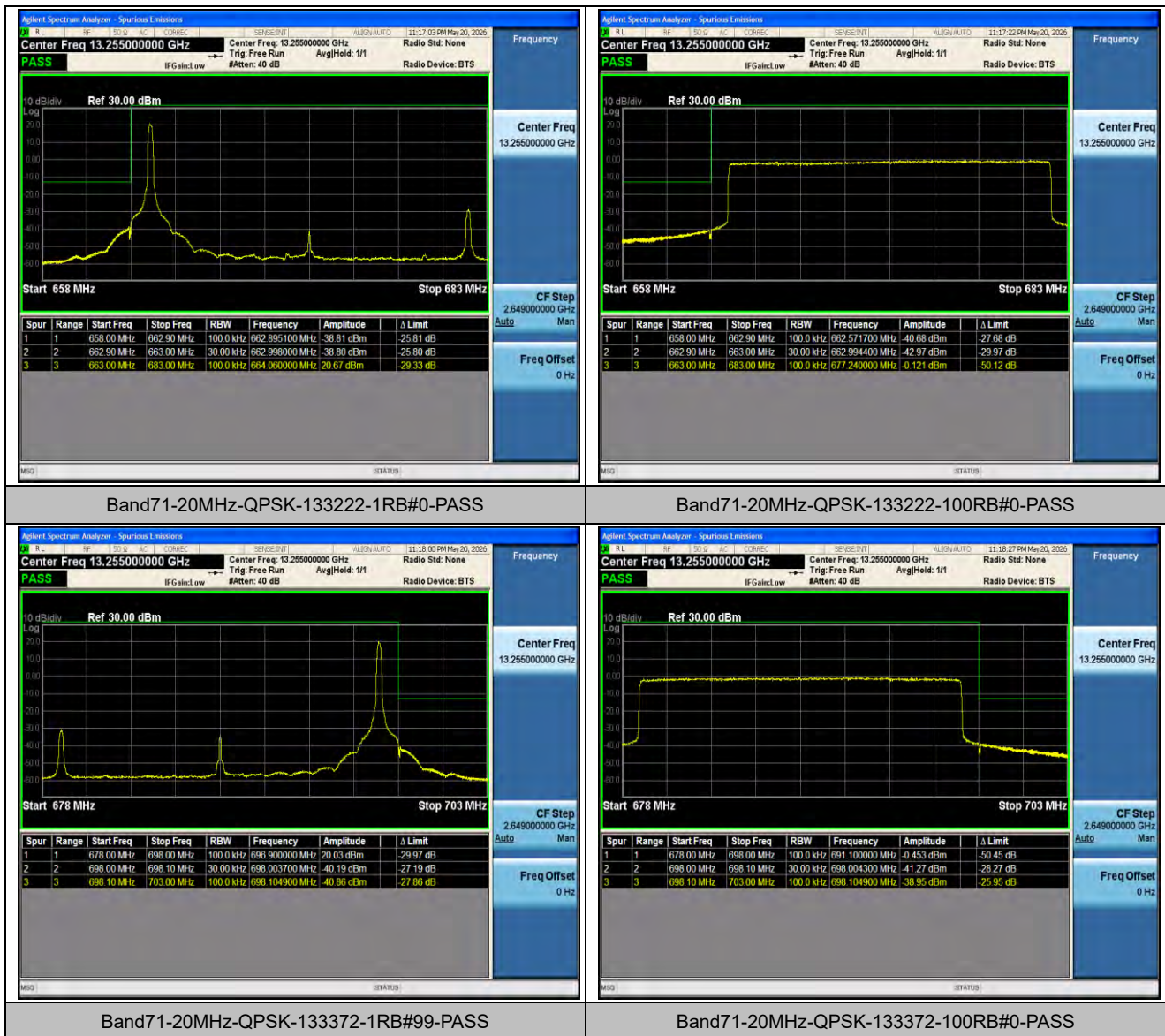
Band71-15MHz-QPSK-133197-75RB#0-PASS



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

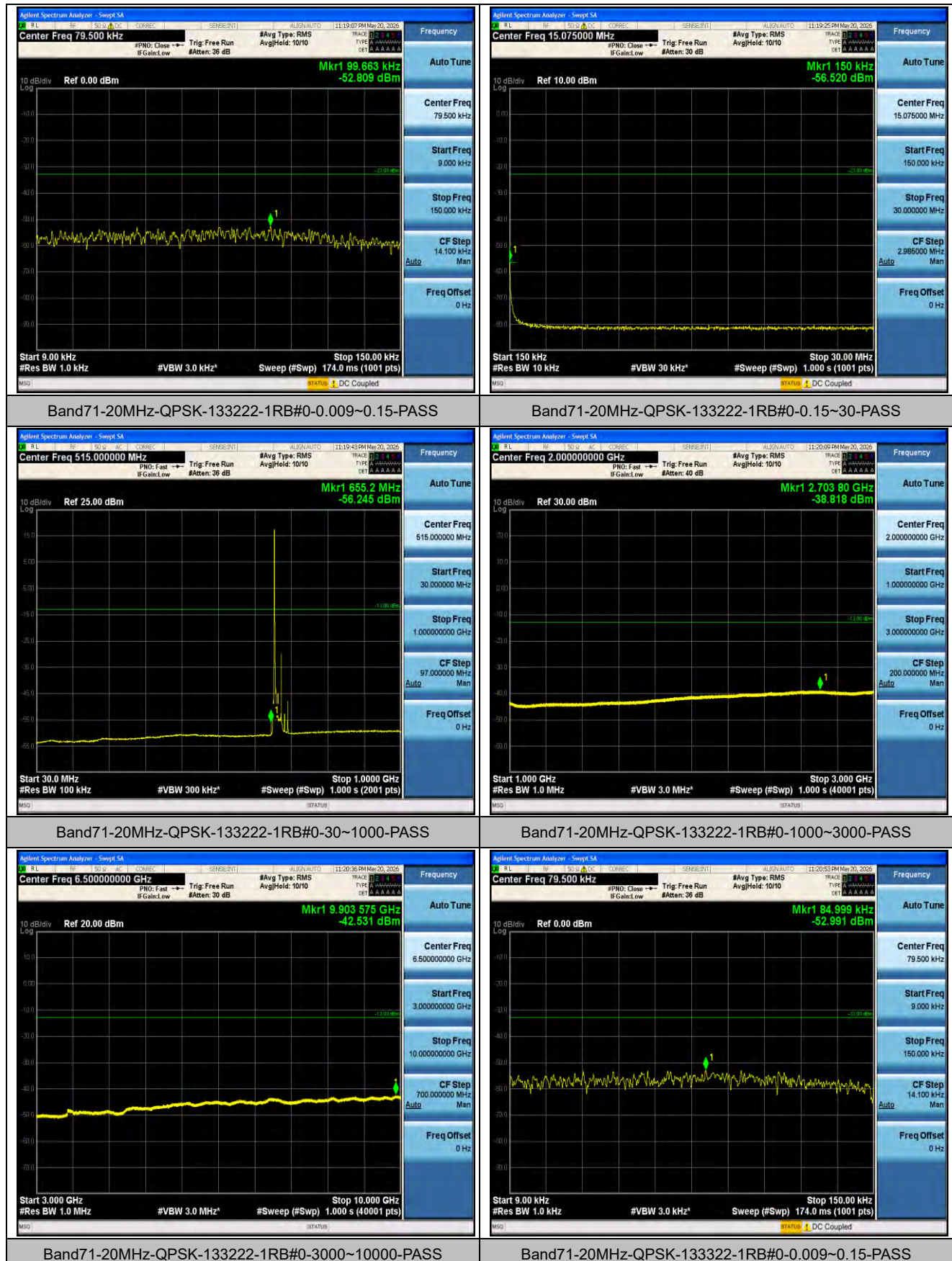


Band71-15MHz-QPSK-133397-75RB#0-PASS



Conducted Spurious Emission

Test Graphs





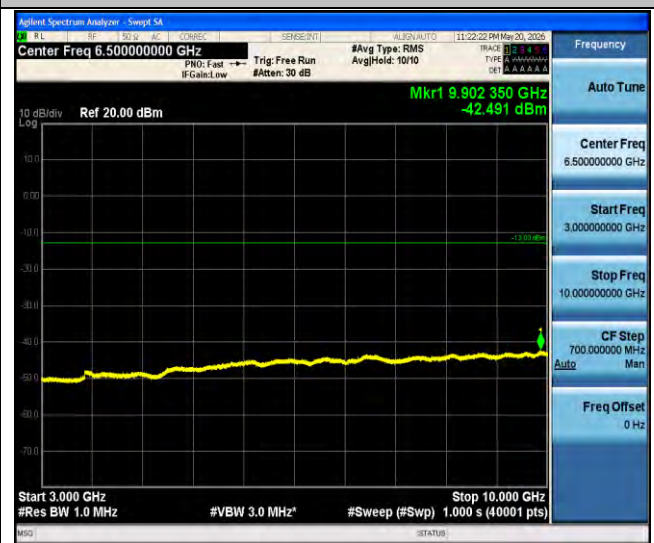
Band71-20MHz-QPSK-133322-1RB#0-0.15~30-PASS



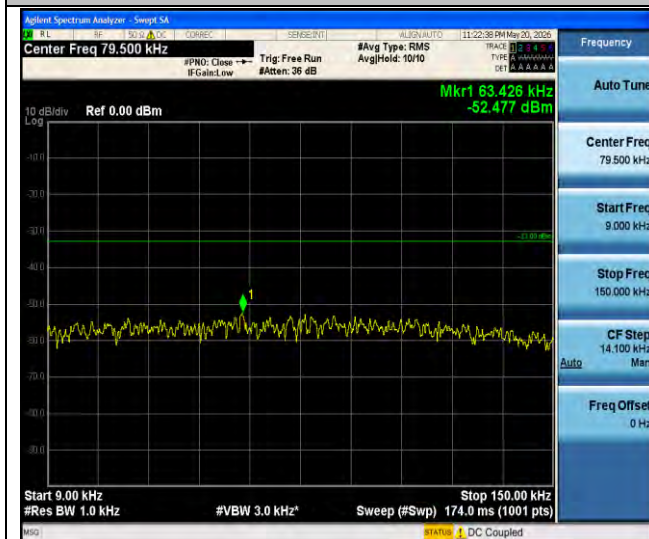
Band71-20MHz-QPSK-133322-1RB#0-30~1000-PASS



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



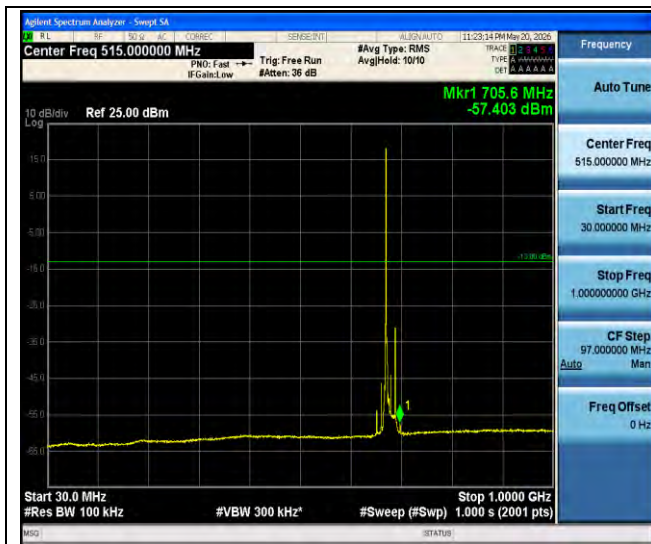
Band71-20MHz-QPSK-133322-1RB#0-3000~10000-PASS



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	-1.90	-0.002782	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.50	-0.003660	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.30	-0.003367	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	-1.00	-0.001464	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-0.50	-0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-0.90	-0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	0.00	0.000000	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.30	-0.001903	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.60	0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	0.50	0.000732	PASS

~The End~