

Appendix-A LTE Band 30

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.26	17.56	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.42	17.72	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.38	17.68	PASS
Band30	5MHz	QPSK	27685	25RB#0	23.24	17.54	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.16	16.46	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.48	16.78	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.55	16.85	PASS
Band30	5MHz	16QAM	27685	25RB#0	22.34	16.64	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.03	15.33	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.56	15.86	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.36	15.66	PASS
Band30	5MHz	64QAM	27685	25RB#0	21.45	15.75	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.41	12.71	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.67	12.97	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.34	12.64	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.63	12.93	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.58	17.88	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.27	17.57	PASS
Band30	5MHz	QPSK	27710	1RB#24	23	17.30	PASS
Band30	5MHz	QPSK	27710	25RB#0	23.39	17.69	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.52	16.82	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.23	16.53	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.08	16.38	PASS
Band30	5MHz	16QAM	27710	25RB#0	22.41	16.71	PASS
Band30	5MHz	64QAM	27710	1RB#0	21.57	15.87	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.24	15.54	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.18	15.48	PASS
Band30	5MHz	64QAM	27710	25RB#0	21.49	15.79	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.48	12.78	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.55	12.85	PASS
Band30	5MHz	256QAM	27710	1RB#24	18.25	12.55	PASS
Band30	5MHz	256QAM	27710	25RB#0	18.59	12.89	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.35	17.65	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.24	17.54	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.34	17.64	PASS
Band30	5MHz	QPSK	27735	25RB#0	23.73	18.03	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.4	16.70	PASS

Band30	5MHz	16QAM	27735	1RB#12	22.21	16.51	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.38	16.68	PASS
Band30	5MHz	16QAM	27735	25RB#0	22.63	16.93	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.35	15.65	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.19	15.49	PASS
Band30	5MHz	64QAM	27735	1RB#24	21.23	15.53	PASS
Band30	5MHz	64QAM	27735	25RB#0	21.67	15.97	PASS
Band30	5MHz	256QAM	27735	1RB#0	18.44	12.74	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.33	12.63	PASS
Band30	5MHz	256QAM	27735	1RB#24	18.39	12.69	PASS
Band30	5MHz	256QAM	27735	25RB#0	18.8	13.10	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.51	17.81	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.29	17.59	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.25	17.55	PASS
Band30	10MHz	QPSK	27710	50RB#0	23.43	17.73	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.59	16.89	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.2	16.50	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.19	16.49	PASS
Band30	10MHz	16QAM	27710	50RB#0	22.69	16.99	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.71	16.01	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.32	15.62	PASS
Band30	10MHz	64QAM	27710	1RB#49	21.12	15.42	PASS
Band30	10MHz	64QAM	27710	50RB#0	21.89	16.19	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.89	13.19	PASS
Band30	10MHz	256QAM	27710	1RB#24	18.26	12.56	PASS
Band30	10MHz	256QAM	27710	1RB#49	18.22	12.52	PASS
Band30	10MHz	256QAM	27710	50RB#0	19.08	13.38	PASS

Maximum_power_spectral_density

Test Result

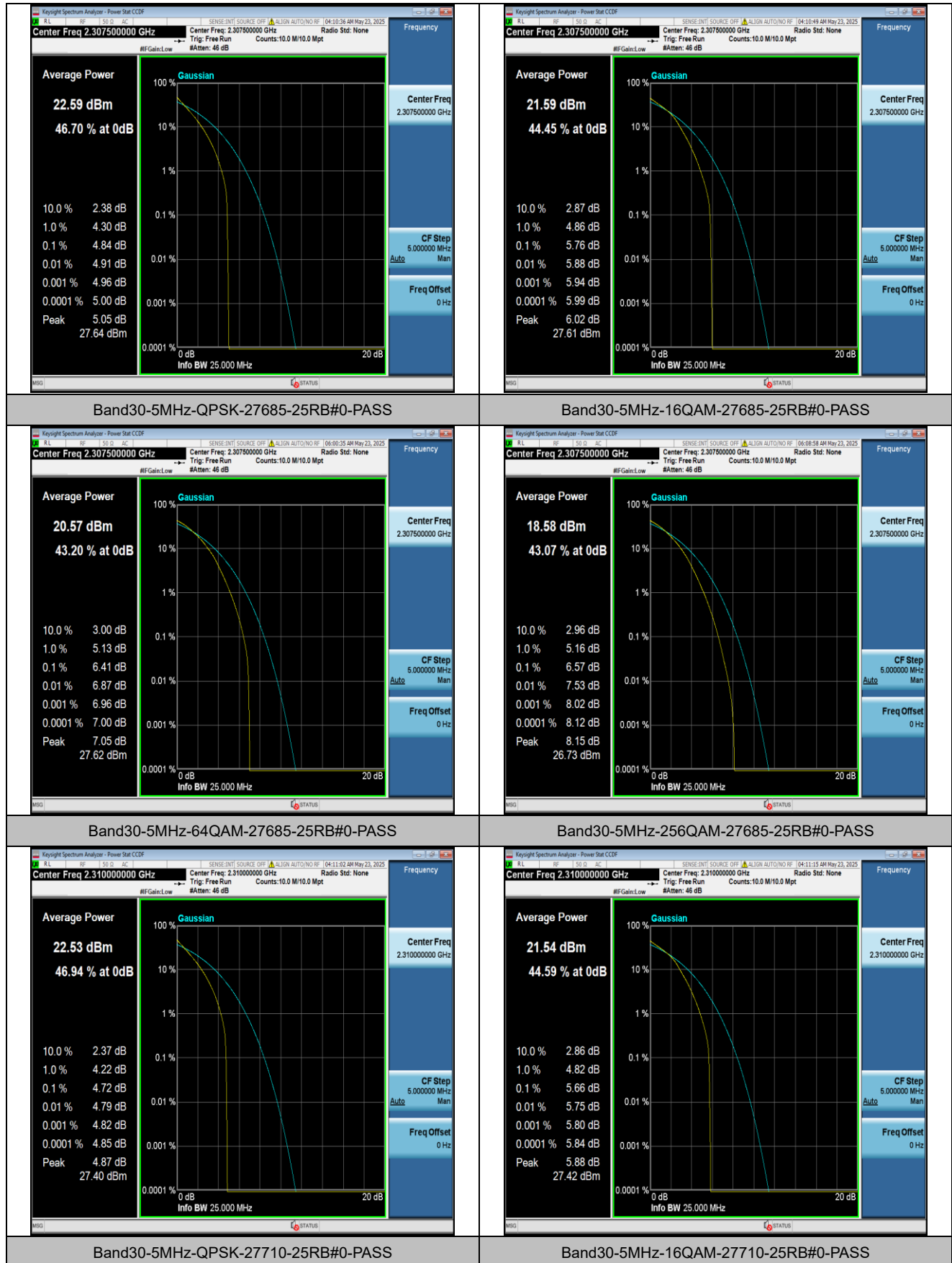
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.82	18.12	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.84	18.14	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.73	18.03	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.28	16.58	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.72	18.02	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.88	18.18	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	23.83	18.13	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.21	16.51	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.83	18.13	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.9	18.2	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.97	18.27	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.34	16.64	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.84	18.14	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.83	18.13	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.95	18.25	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	20.42	14.72	23.98	PASS

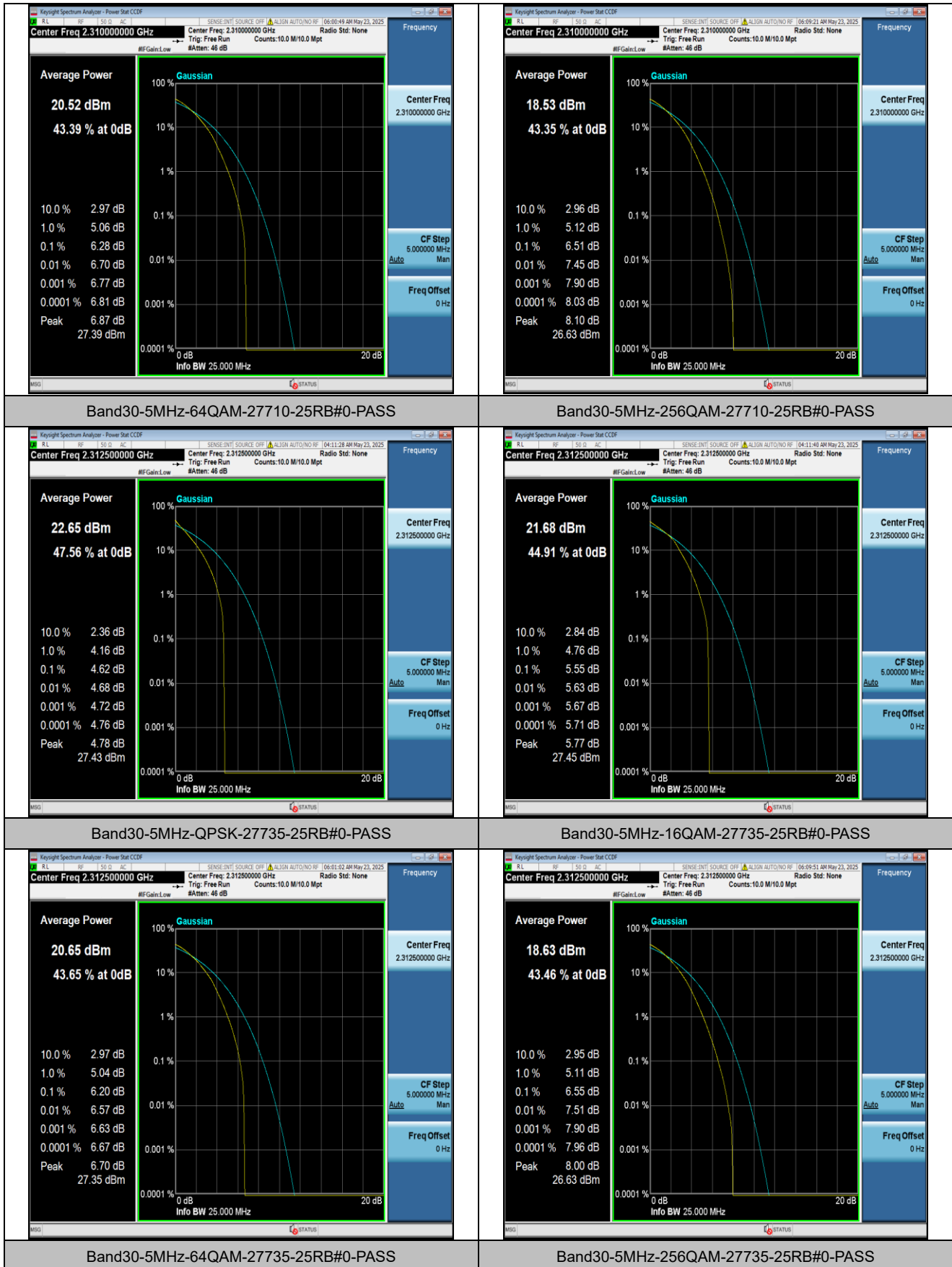
Peak-to-Average Ratio(CCDF)

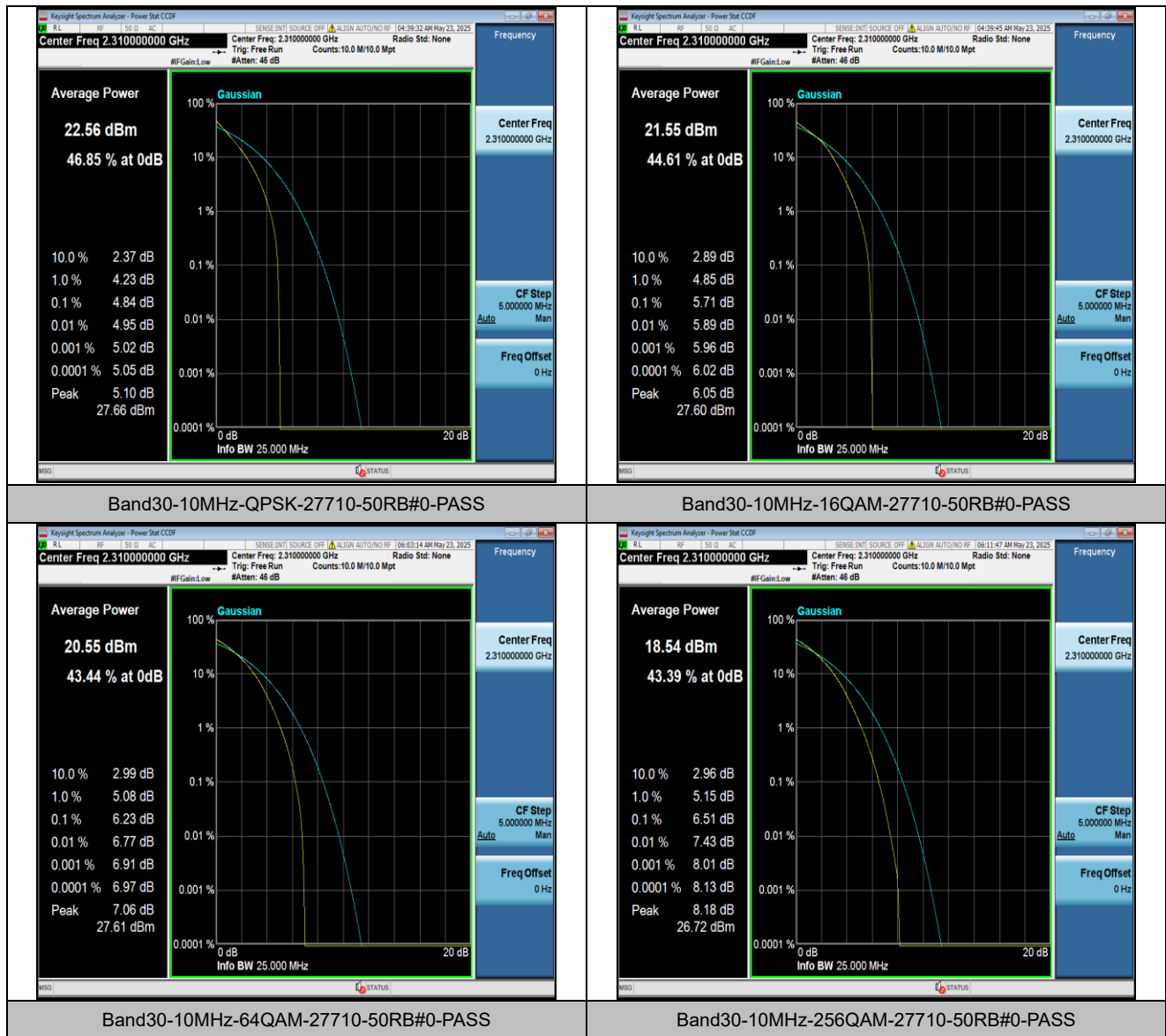
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.84	13	PASS
Band30	5MHz	16QAM	27685	25RB#0	5.76	13	PASS
Band30	5MHz	64QAM	27685	25RB#0	6.41	13	PASS
Band30	5MHz	256QAM	27685	25RB#0	6.57	13	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.72	13	PASS
Band30	5MHz	16QAM	27710	25RB#0	5.66	13	PASS
Band30	5MHz	64QAM	27710	25RB#0	6.28	13	PASS
Band30	5MHz	256QAM	27710	25RB#0	6.51	13	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.62	13	PASS
Band30	5MHz	16QAM	27735	25RB#0	5.55	13	PASS
Band30	5MHz	64QAM	27735	25RB#0	6.20	13	PASS
Band30	5MHz	256QAM	27735	25RB#0	6.55	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	4.84	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.71	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.23	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.51	13	PASS

Test Graphs





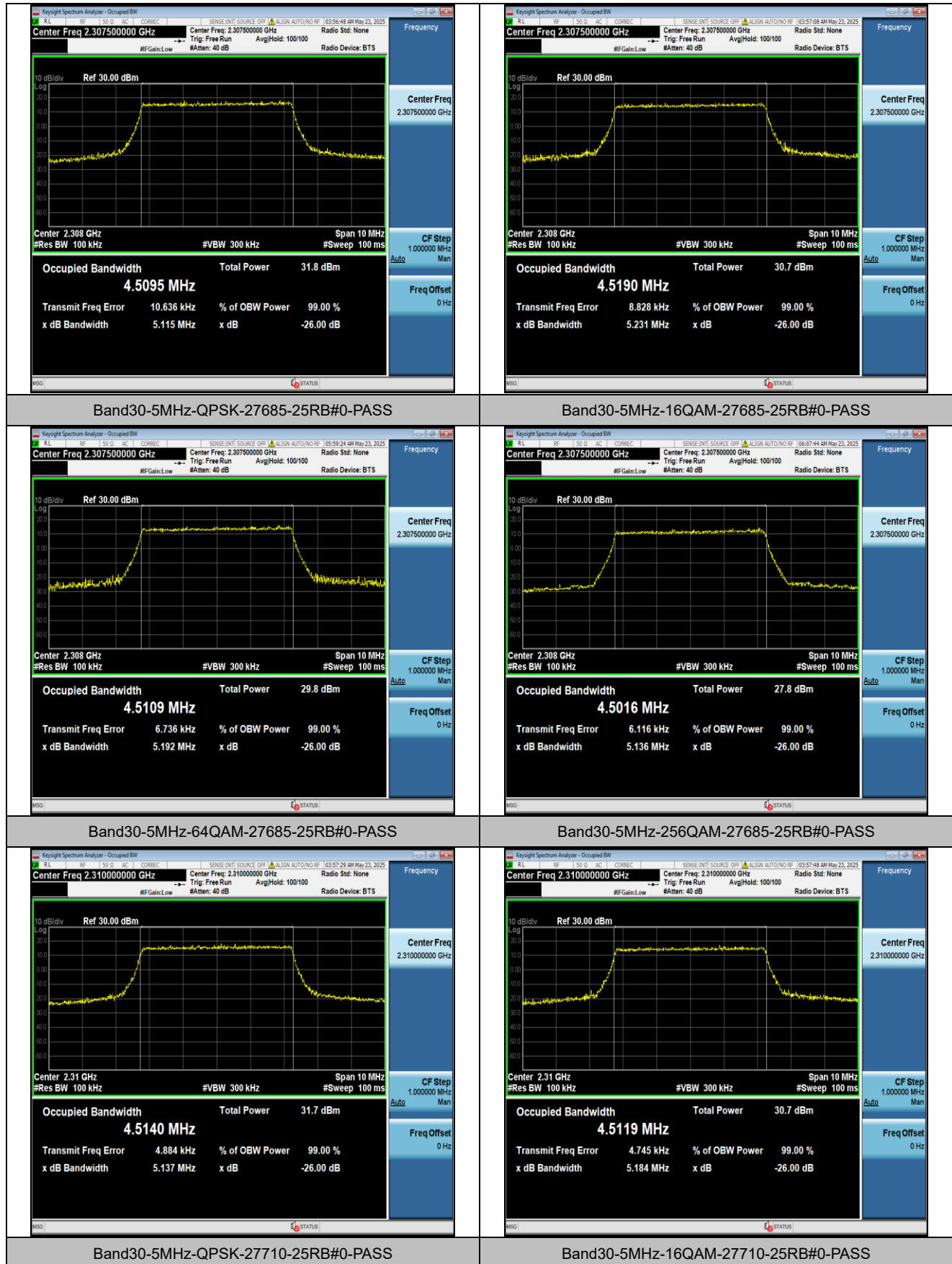


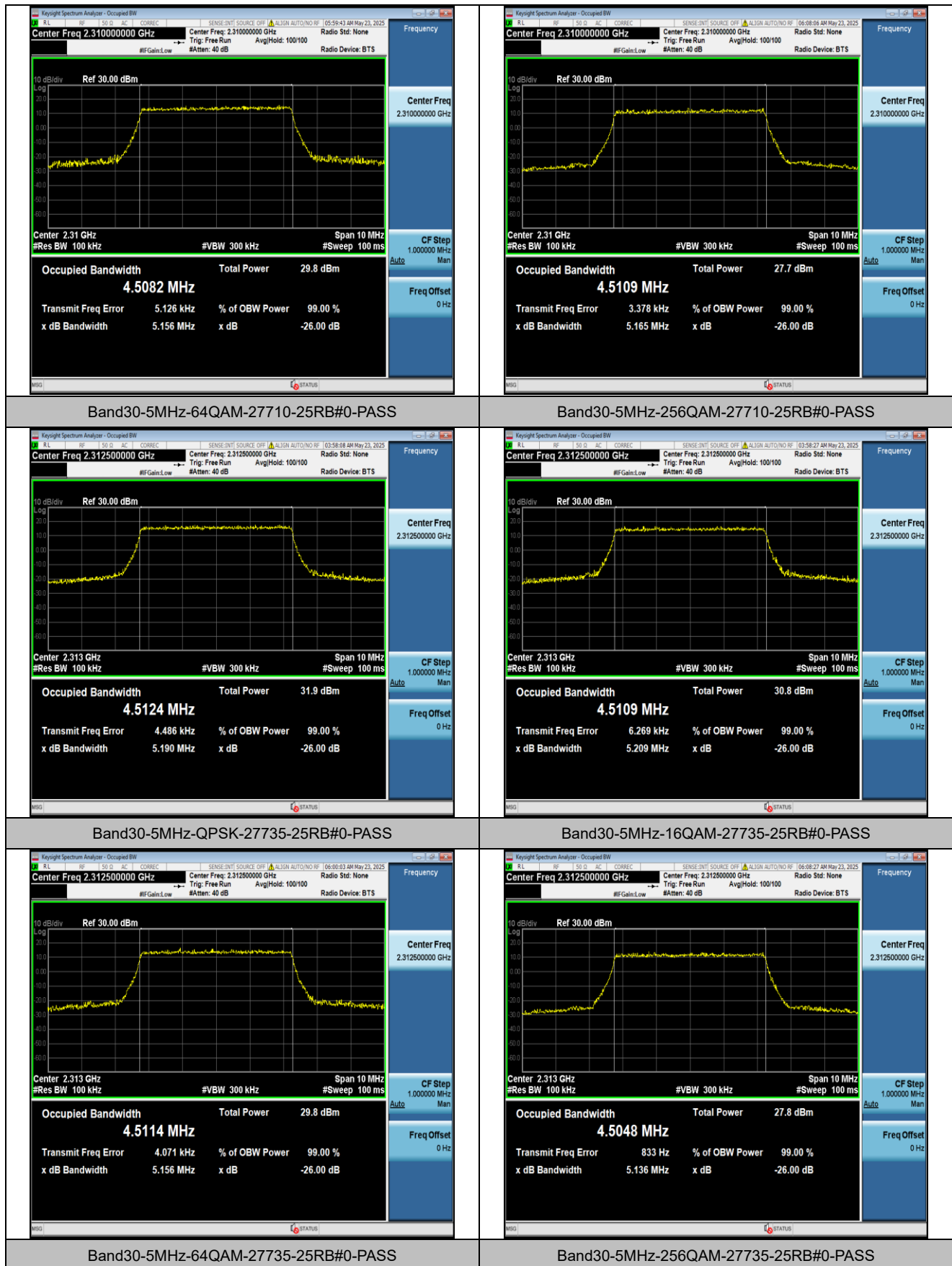
26dB Bandwidth and Occupied Bandwidth

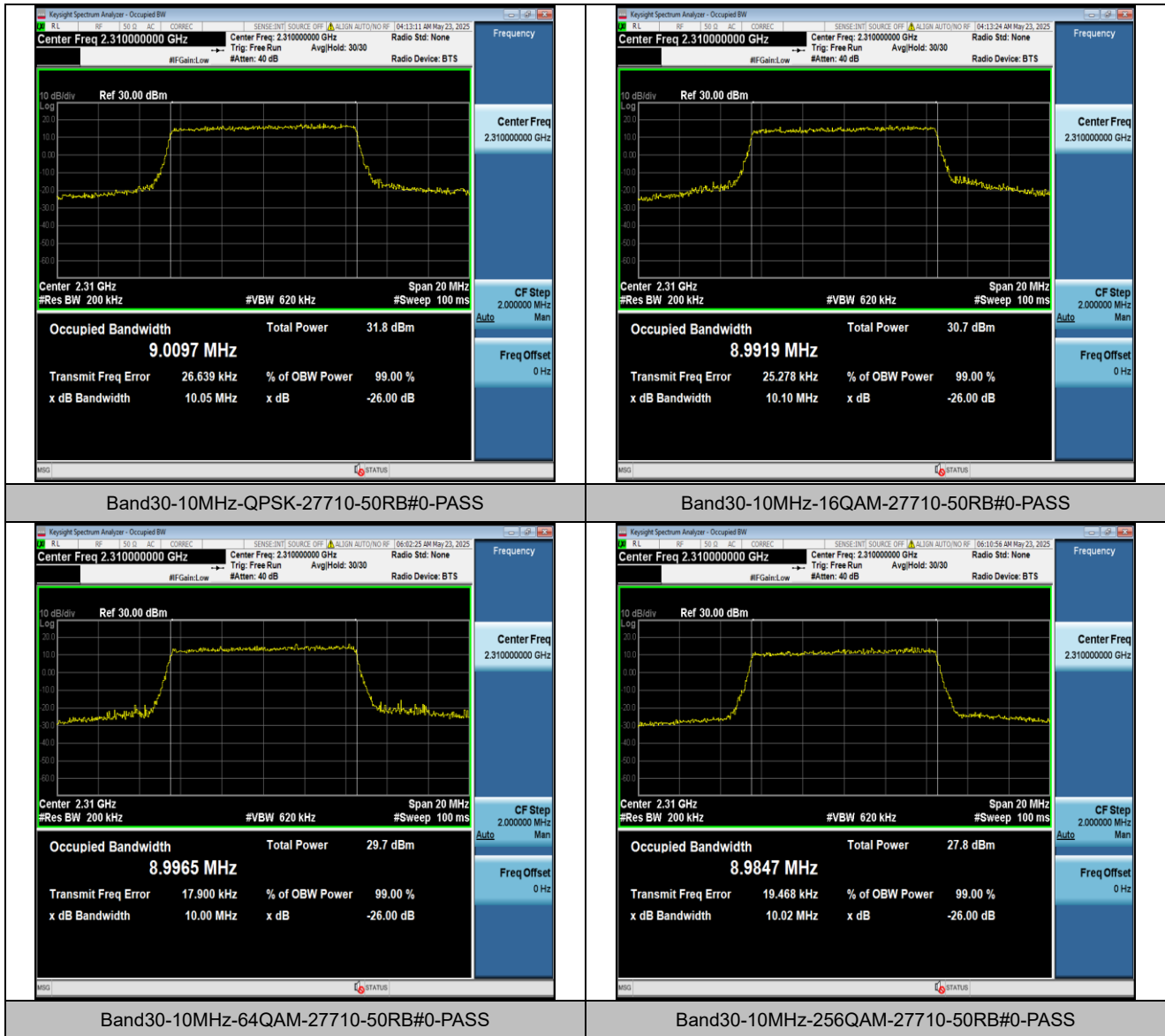
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.5095	5.115	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5190	5.231	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.5109	5.192	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.5016	5.136	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.5140	5.137	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.5119	5.184	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.5082	5.156	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.5109	5.165	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.5124	5.190	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.5109	5.209	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.5114	5.156	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.5048	5.136	PASS
Band30	10MHz	QPSK	27710	50RB#0	9.0097	10.05	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.9919	10.10	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.9965	10.000	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.9847	10.02	PASS

Test Graphs

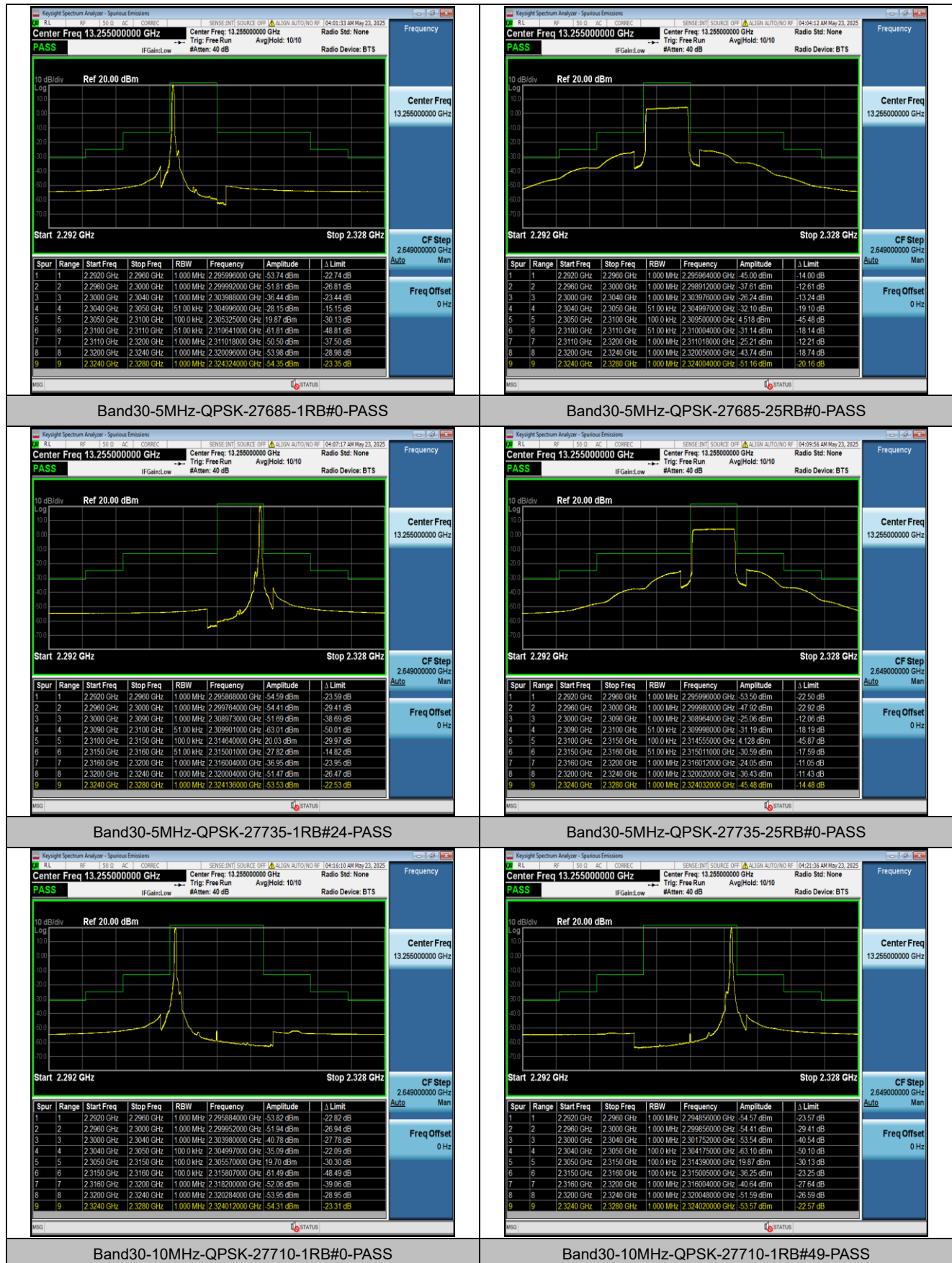


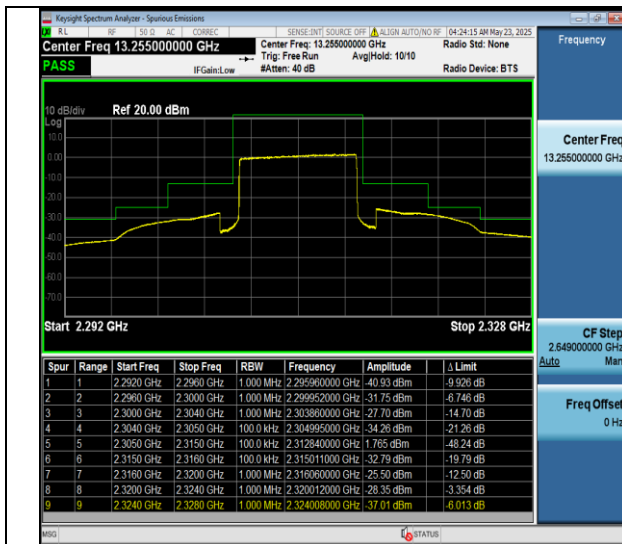




Band Edge

Test Graphs

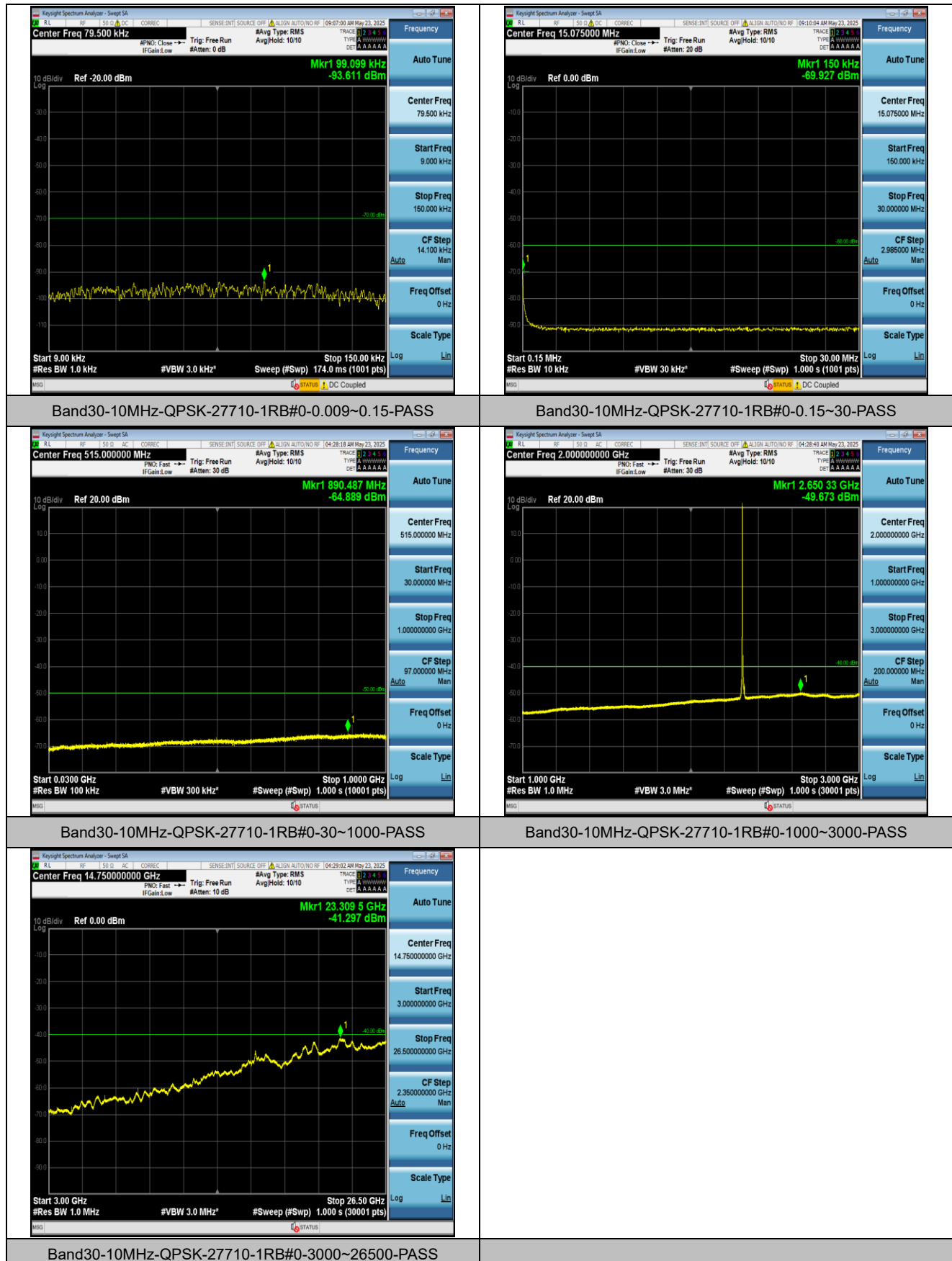




Band30-10MHz-QPSK-27710-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-1.90	-0.000823	PASS
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-2.20	-0.000952	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	0.30	0.000130	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-0.20	-0.000087	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-1.60	-0.000693	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-2.00	-0.000866	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-1.30	-0.000563	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-0.70	-0.000303	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-0.80	-0.000346	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-2.10	-0.000909	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-0.90	-0.000390	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	0.20	0.000087	PASS

~The End~