

Appendix-A LTE Band 13

Effective (Isotropic) Radiated Power Output Data

Test Result

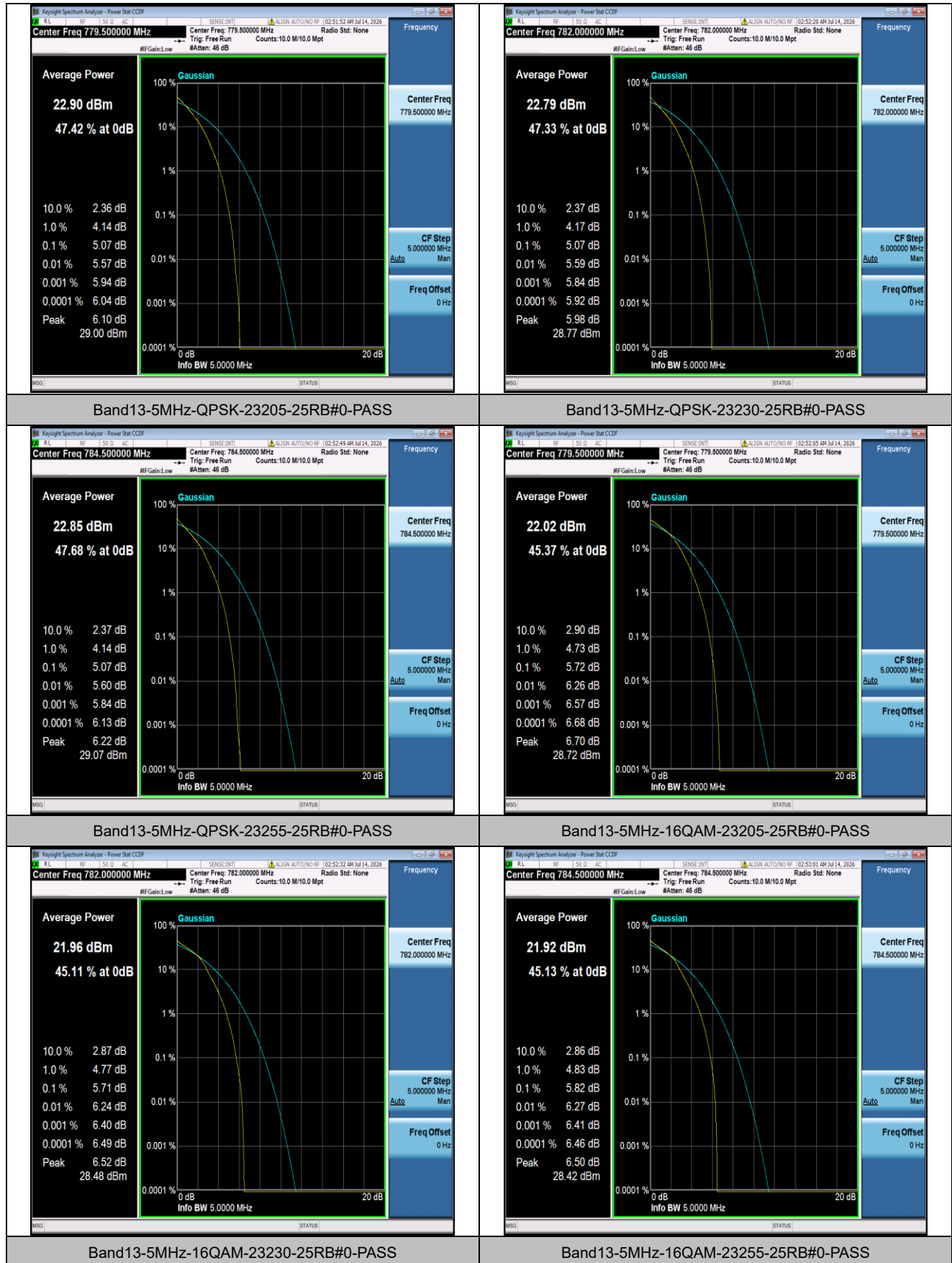
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.9	24.25	44.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.06	24.41	44.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.03	24.38	44.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.59	23.94	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23	24.35	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.83	24.18	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.25	24.6	44.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.5	23.85	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.84	24.19	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.1	24.45	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.09	24.44	44.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.59	23.94	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.14	23.49	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.43	23.78	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.29	23.64	44.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.65	23	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.67	24.02	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.62	23.97	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.86	24.21	44.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.58	22.93	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.34	23.69	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.45	23.8	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.58	23.93	44.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.65	23	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.9	24.25	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.79	24.14	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.26	24.61	44.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.6	23.95	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.58	23.93	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.38	23.73	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.89	24.24	44.77	PASS
Band13	10MHz	16QAM	23230	27RB#0	21.55	22.9	44.77	PASS

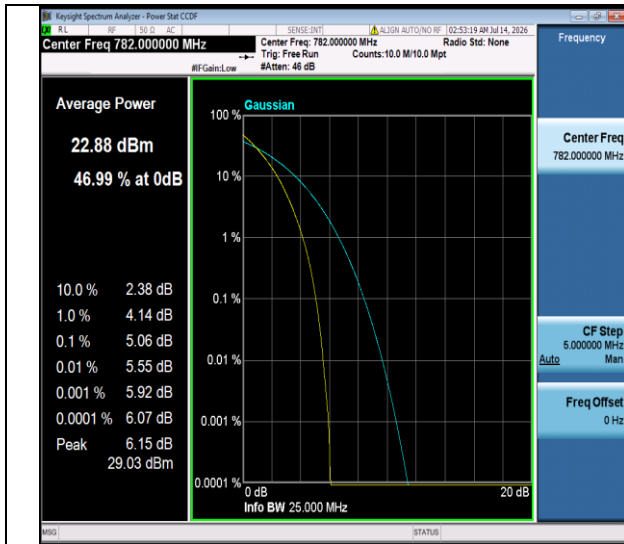
Peak-to-Average Ratio(CCDF)

Test Result

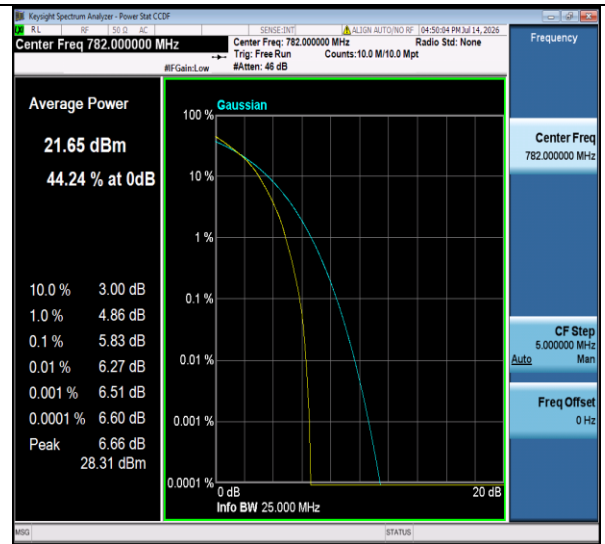
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.07	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.07	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.07	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.72	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.71	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.82	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.06	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.83	13	PASS

Test Graphs





Band13-10MHz-QPSK-23230-50RB#0-PASS



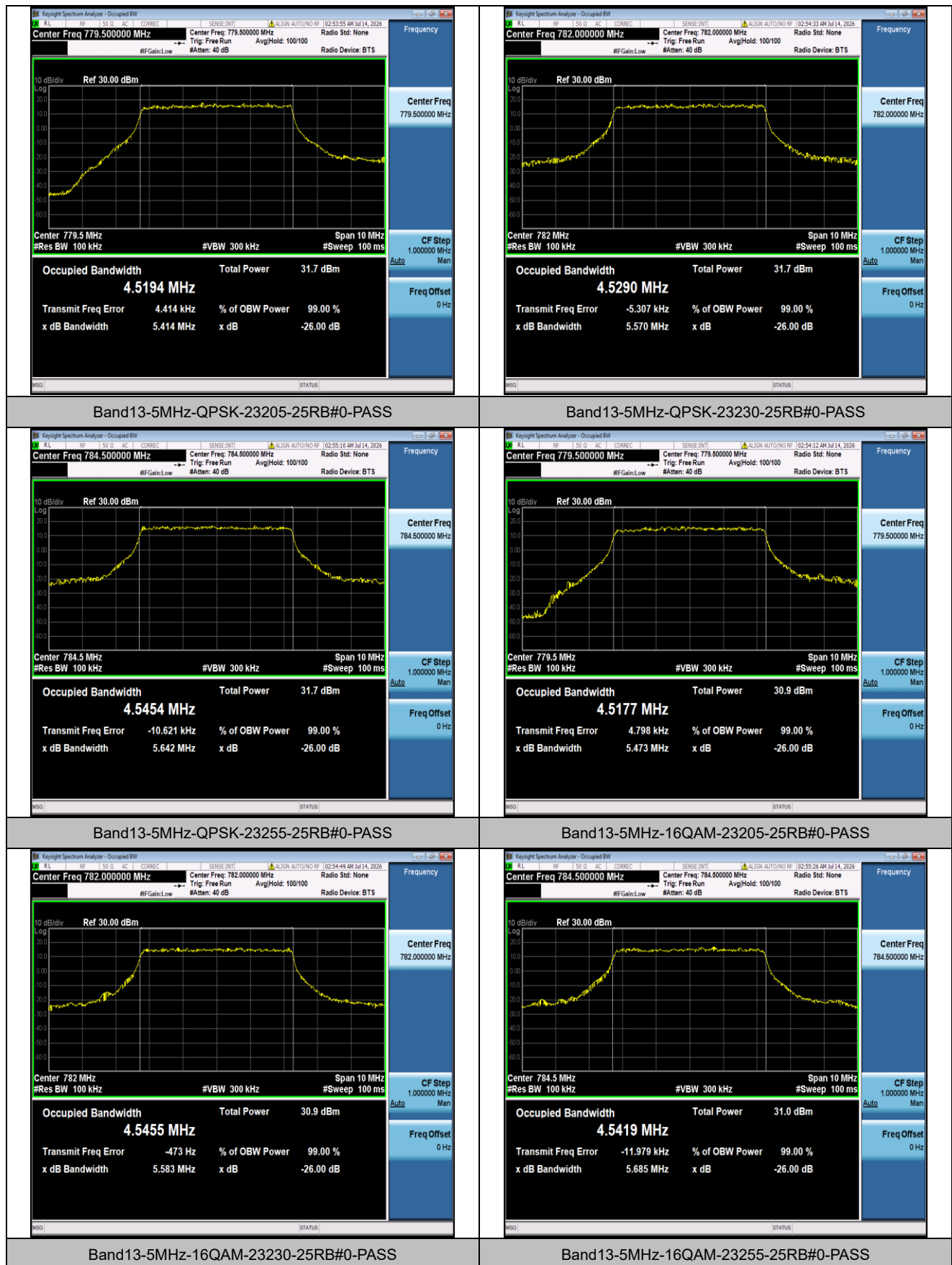
Band13-10MHz-16QAM-23230-27RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

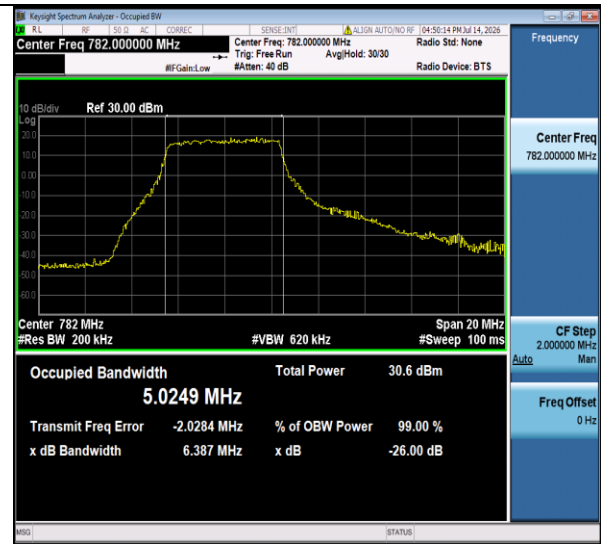
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5194	5.414	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5290	5.570	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5454	5.642	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5177	5.473	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5455	5.583	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5419	5.685	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9905	10.44	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.0249	6.387	PASS

Test Graphs





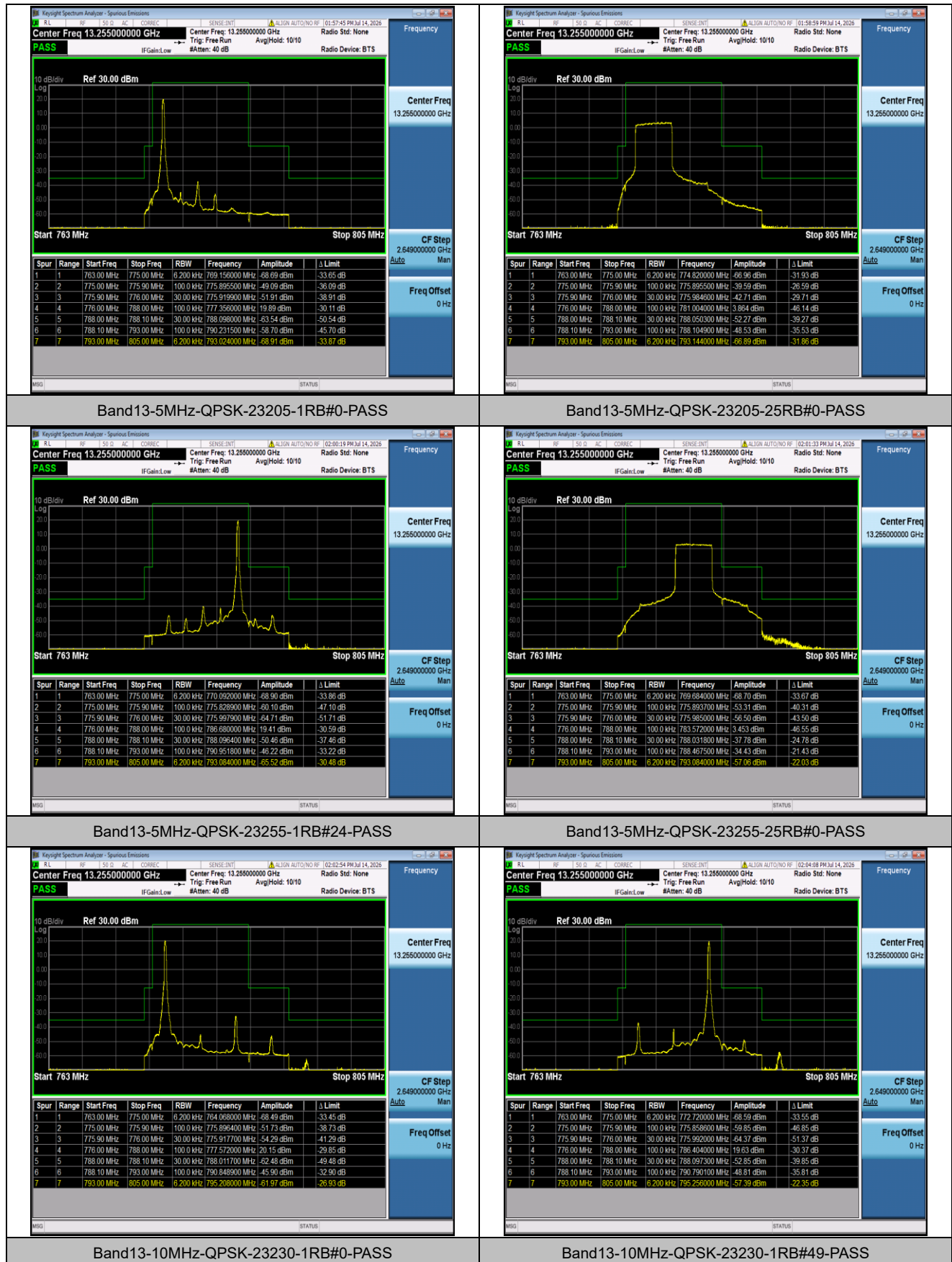
Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-27RB#0-PASS

Band Edge

Test Graphs

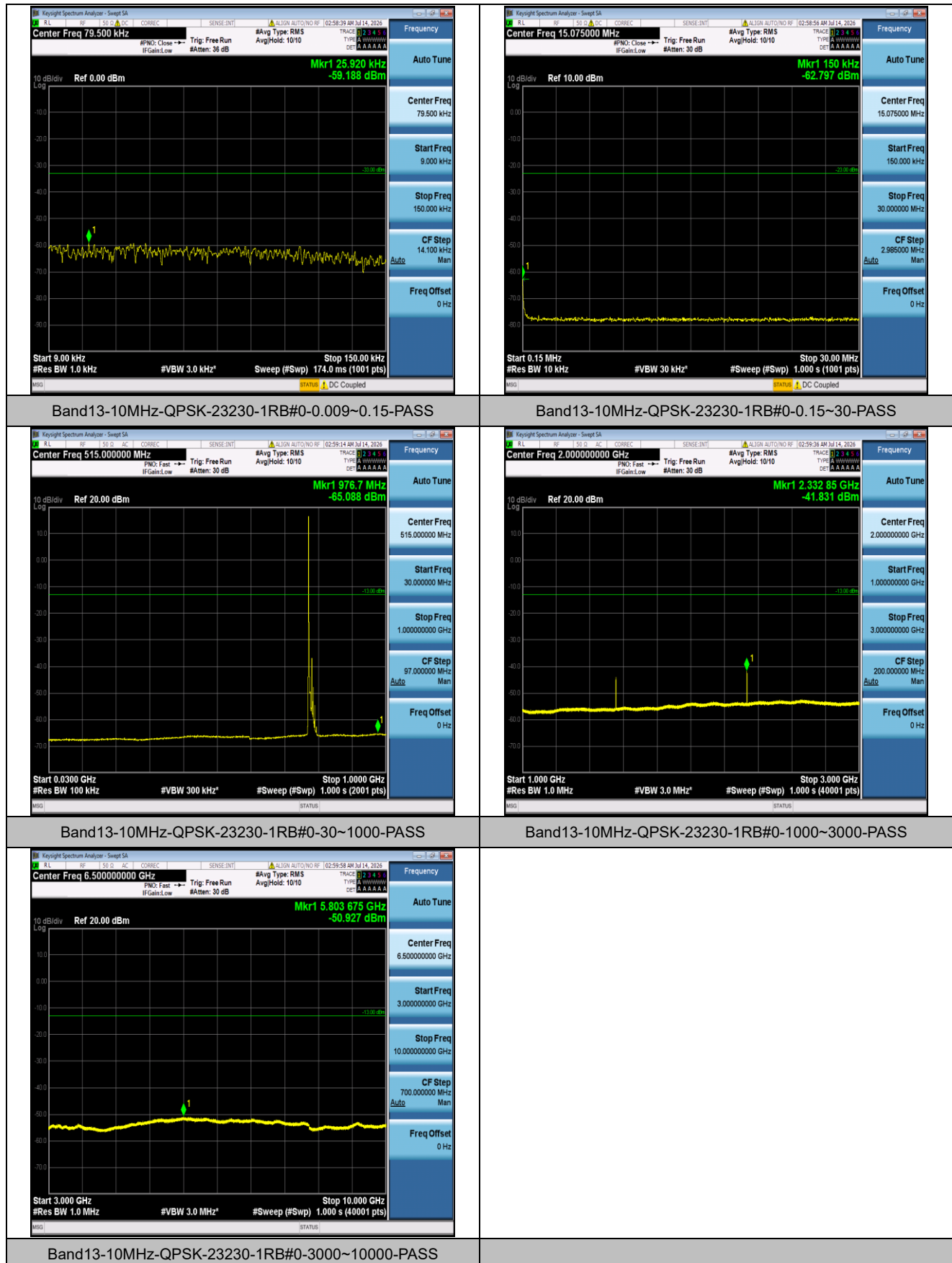




Band13-10MHz-QPSK-23230-50RB#0-PASS

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
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-5.11	-0.006535	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-7.02	-0.008977	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-6.53	-0.008350	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-7.82	-0.010000	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-4.03	-0.005153	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.49	-0.007020	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-4.69	-0.005997	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-4.23	-0.005409	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-3.83	-0.004898	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.58	-0.004578	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.59	-0.004591	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-3.33	-0.004258	PASS

~The End~