

Appendix-D LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.36	24.76	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.39	24.79	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.29	24.69	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.56	23.96	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.32	24.72	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.26	24.66	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.3	24.7	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.47	23.87	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.48	24.88	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.56	24.96	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.46	24.86	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.57	23.97	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.47	23.87	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.54	23.94	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.37	23.77	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.63	23.03	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.35	23.75	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.42	23.82	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.32	23.72	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.44	22.84	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.48	23.88	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.7	24.1	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.62	24.02	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.64	23.04	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.45	24.85	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.4	24.8	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.57	24.97	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.67	24.07	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.41	24.81	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.37	24.77	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.37	24.77	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.55	23.95	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.52	24.92	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.54	24.94	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.48	24.88	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.49	23.89	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.32	23.72	33.00	PASS

Band41	10MHz	16QAM	39700	1RB#24	22.39	23.79	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.46	23.86	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.64	23.04	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.37	23.77	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.38	23.78	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.26	23.66	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.41	22.81	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.2	24.6	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.61	25.01	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.5	24.9	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.57	22.97	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.33	24.73	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.39	24.79	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.39	24.79	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.43	23.83	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.53	24.93	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.44	24.84	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.32	24.72	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.47	23.87	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.51	24.91	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.43	24.83	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.53	24.93	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.45	23.85	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.11	23.51	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.09	23.49	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.05	23.45	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.5	22.9	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.3	23.7	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.22	23.62	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.19	23.59	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.46	22.86	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.49	23.89	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.41	23.81	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.52	23.92	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.53	22.93	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.31	24.71	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.47	24.87	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.33	24.73	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.42	23.82	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.58	24.98	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.57	24.97	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.35	24.75	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.55	23.95	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.53	24.93	33.00	PASS

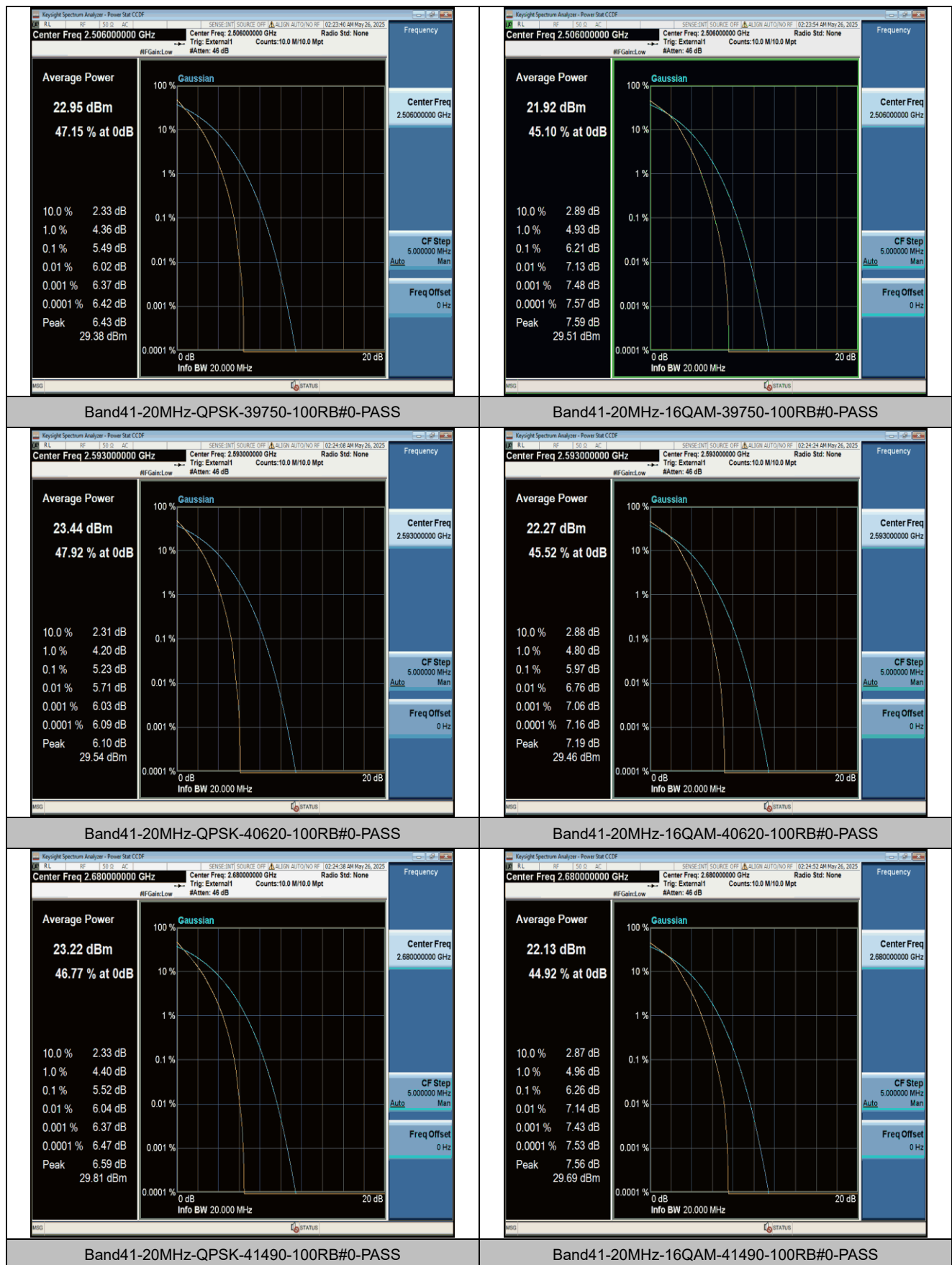
Band41	20MHz	QPSK	41490	1RB#49	25.31	26.71	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.53	24.93	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.53	23.93	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.99	24.39	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.13	24.53	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.73	24.13	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.49	22.89	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.94	24.34	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.16	24.56	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.8	24.2	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.52	22.92	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.07	24.47	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.25	24.65	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.12	24.52	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.61	23.01	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	5.49	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.21	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.23	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.97	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.52	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.26	13	PASS

Test Graphs

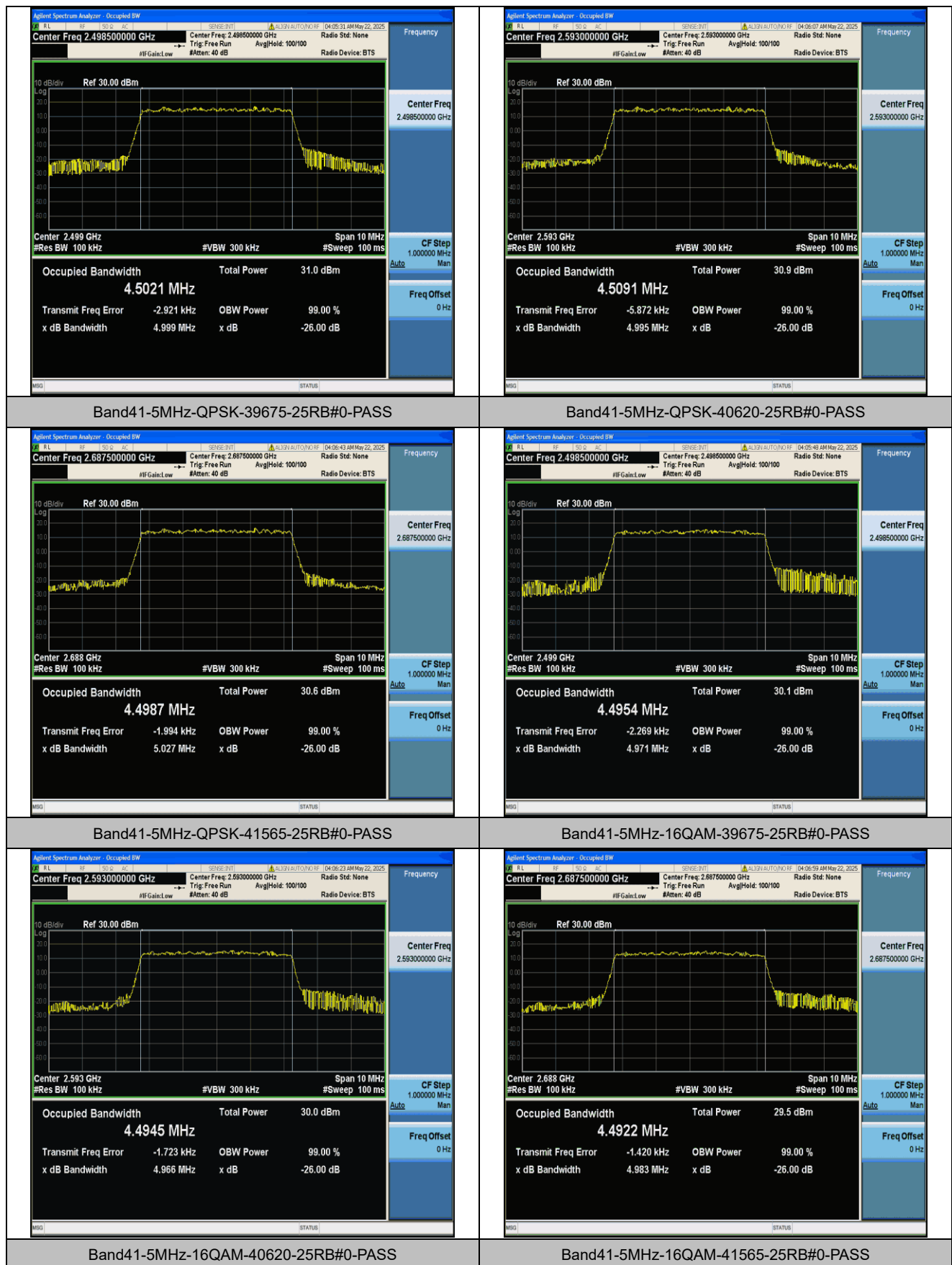


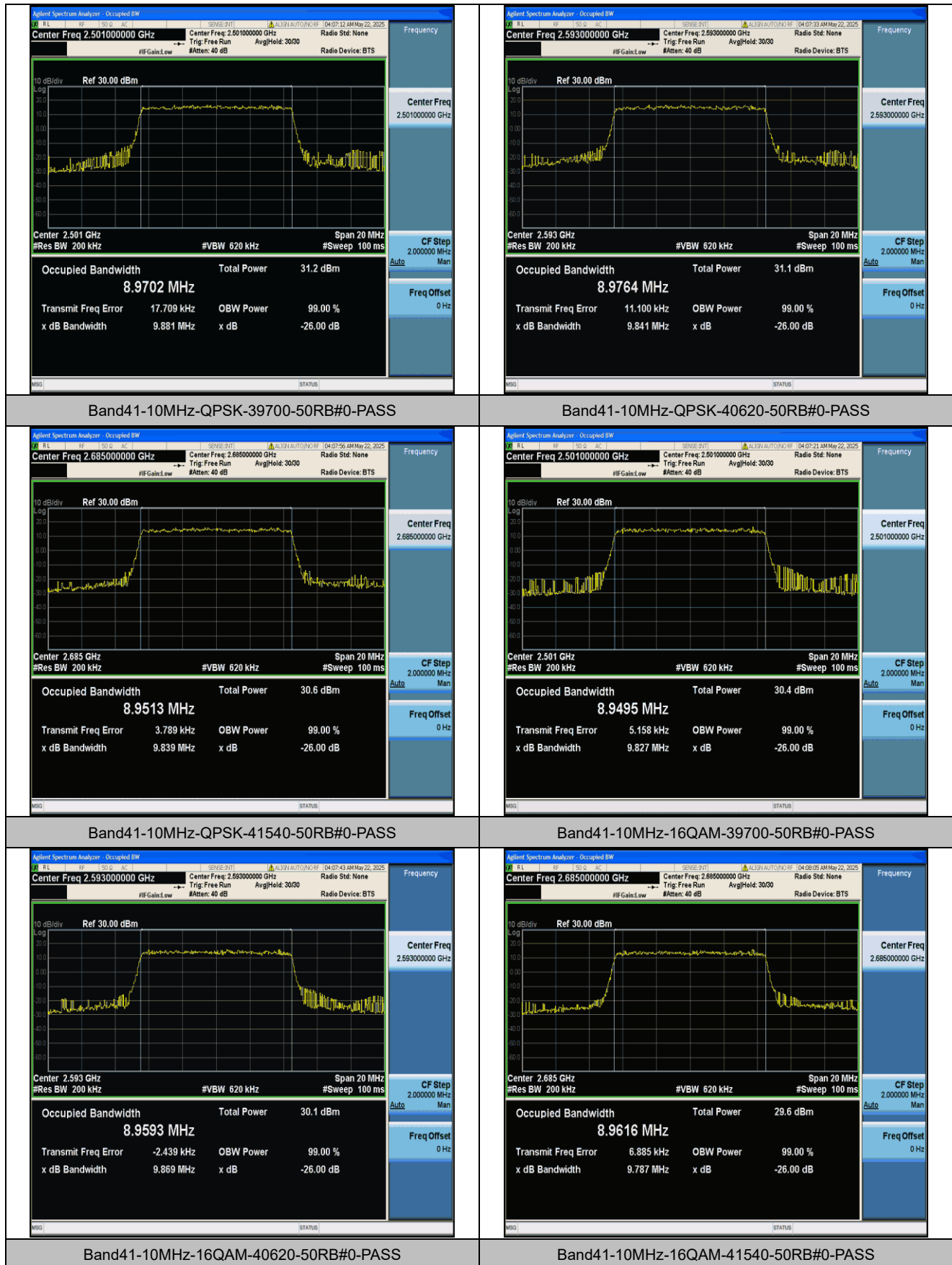
26dB Bandwidth and Occupied Bandwidth

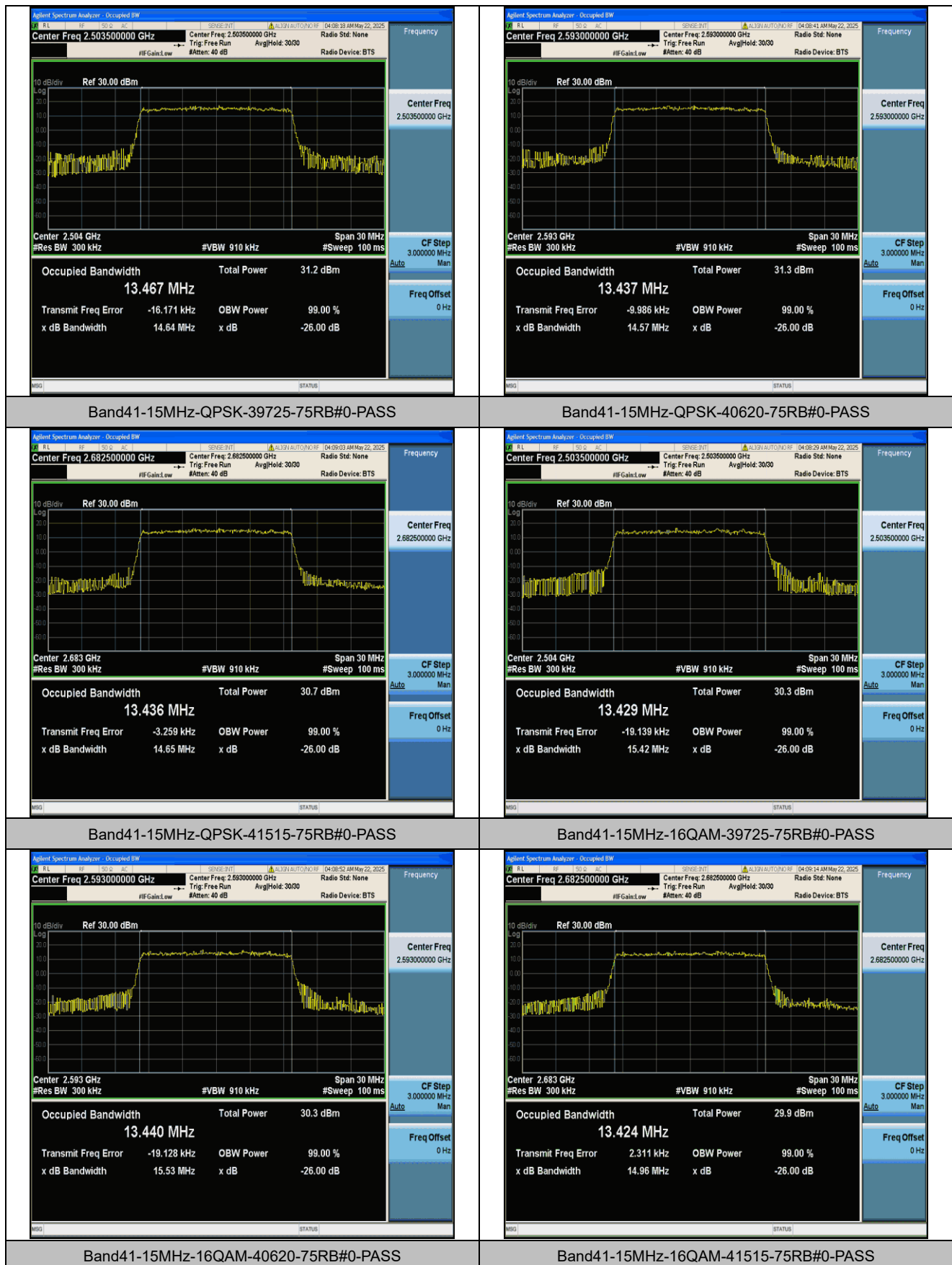
Test Result

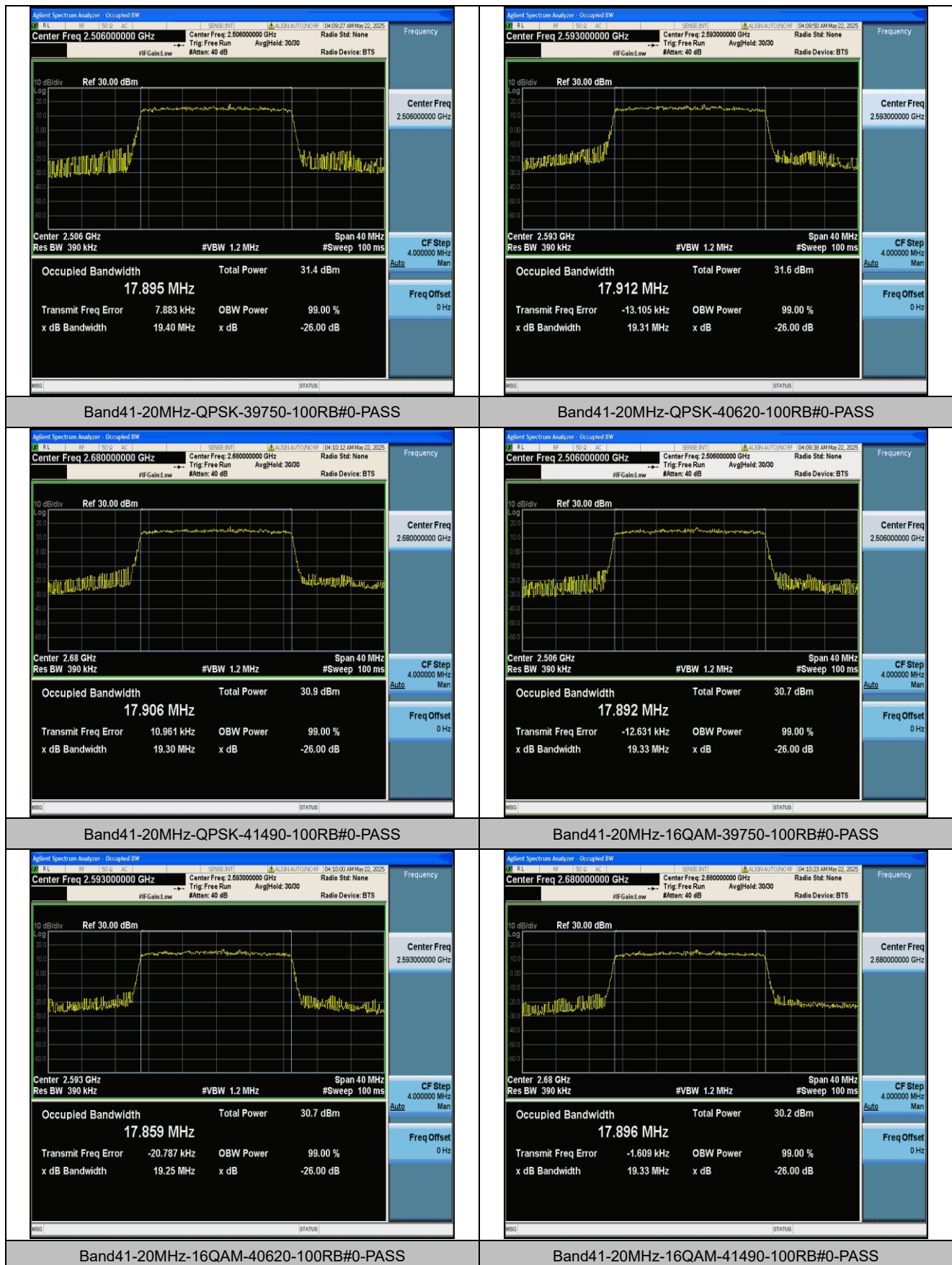
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5021	4.999	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5091	4.995	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4987	5.027	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4954	4.971	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4945	4.966	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4922	4.983	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9702	9.881	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9764	9.841	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9513	9.839	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9495	9.827	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9593	9.869	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9616	9.787	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.467	14.64	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.437	14.57	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.436	14.65	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.429	15.42	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.440	15.53	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.424	14.96	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.895	19.40	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.912	19.31	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.906	19.30	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.892	19.33	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.859	19.25	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.896	19.33	PASS

Test Graphs



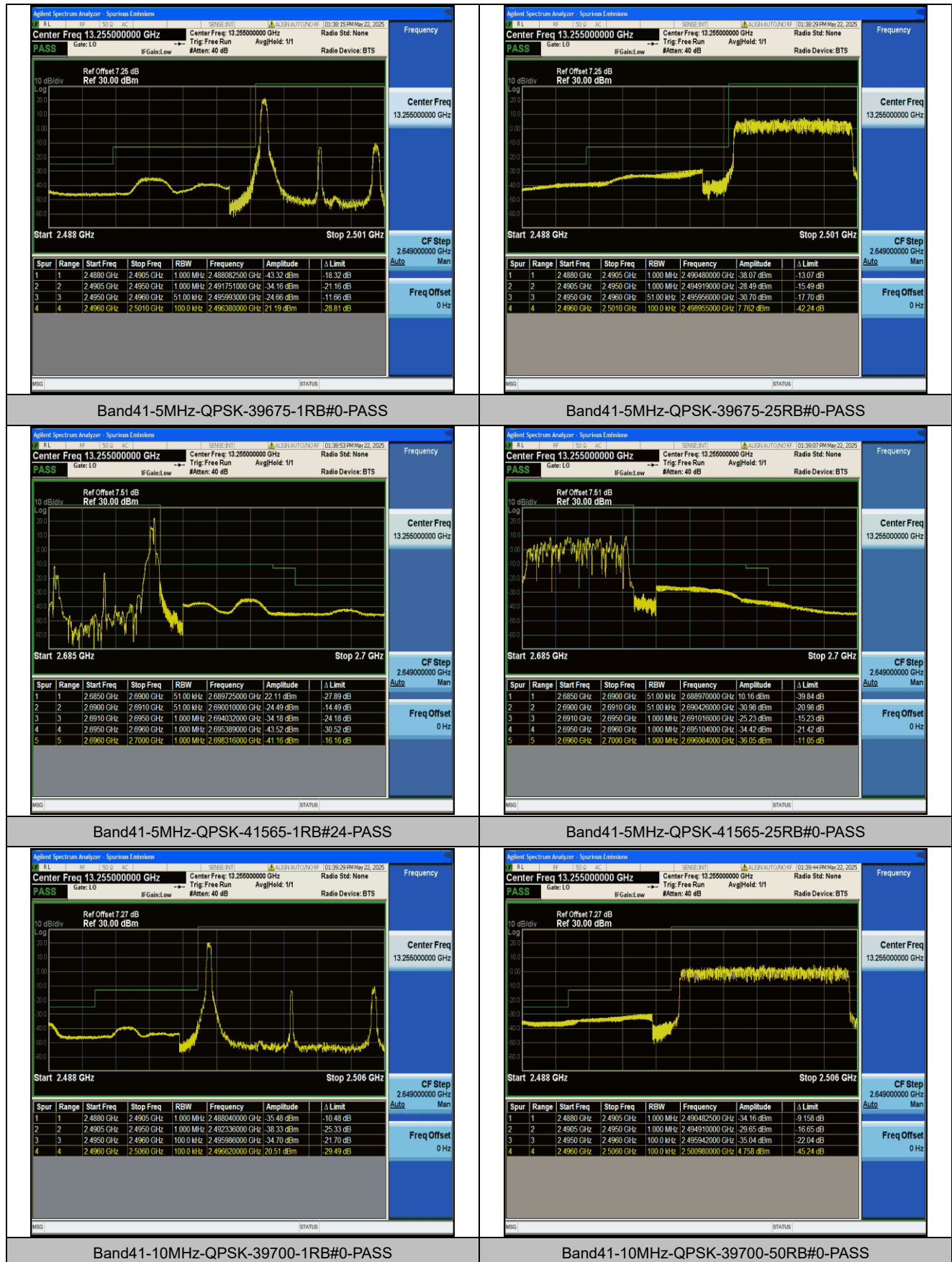


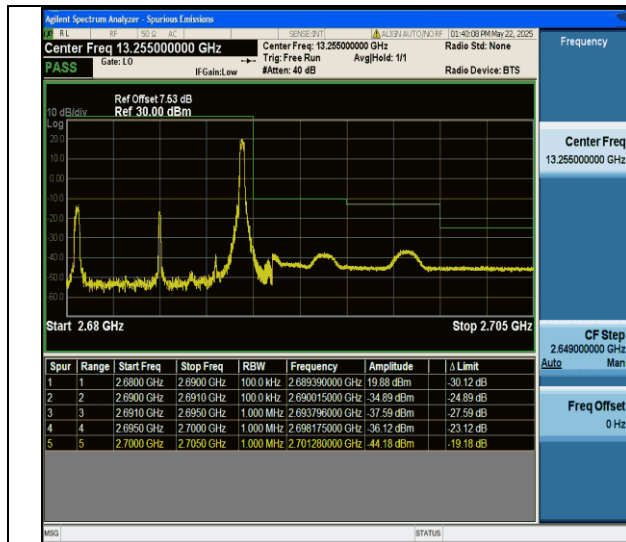




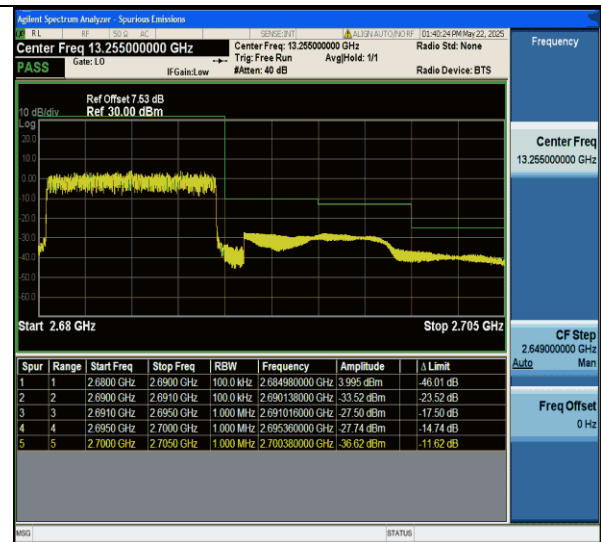
Band Edge

Test Graphs

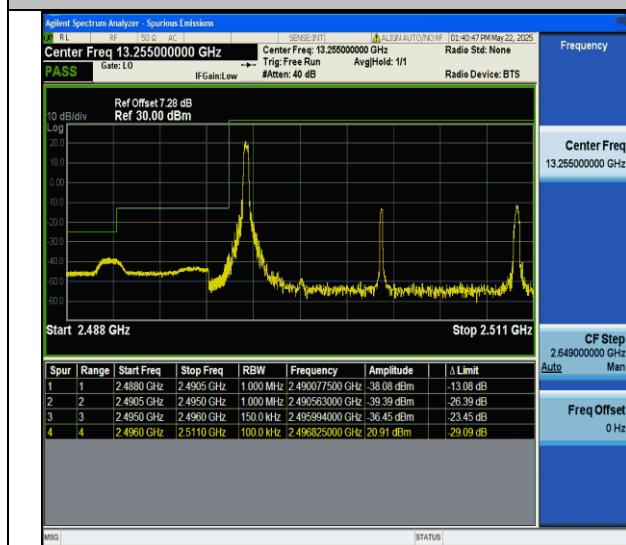




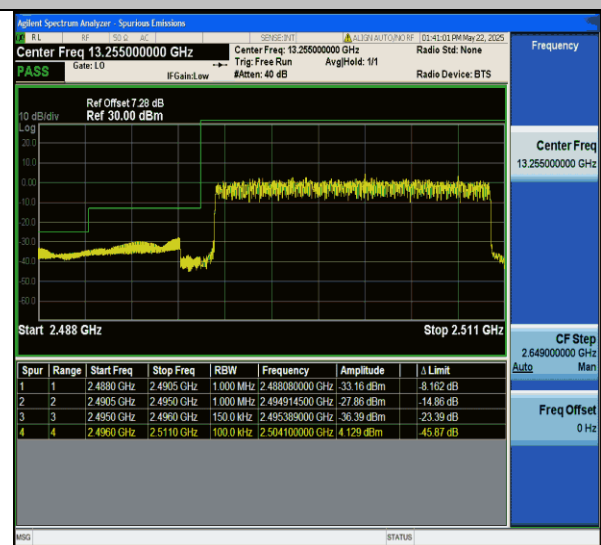
Band41-10MHz-QPSK-41540-1RB#49-PASS



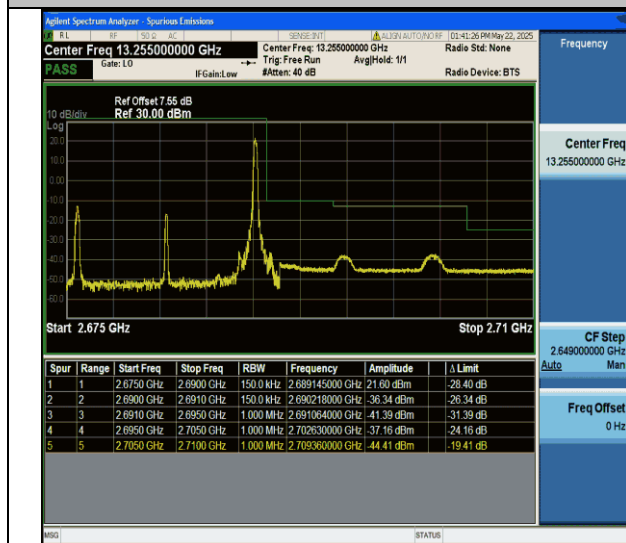
Band41-10MHz-QPSK-41540-50RB#0-PASS



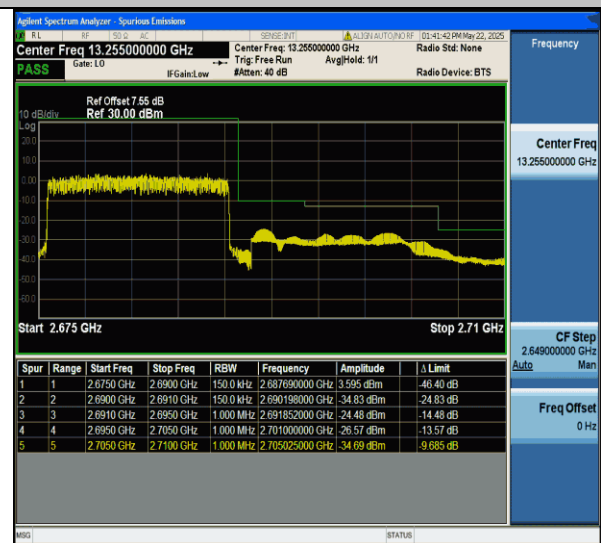
Band41-15MHz-QPSK-39725-1RB#0-PASS



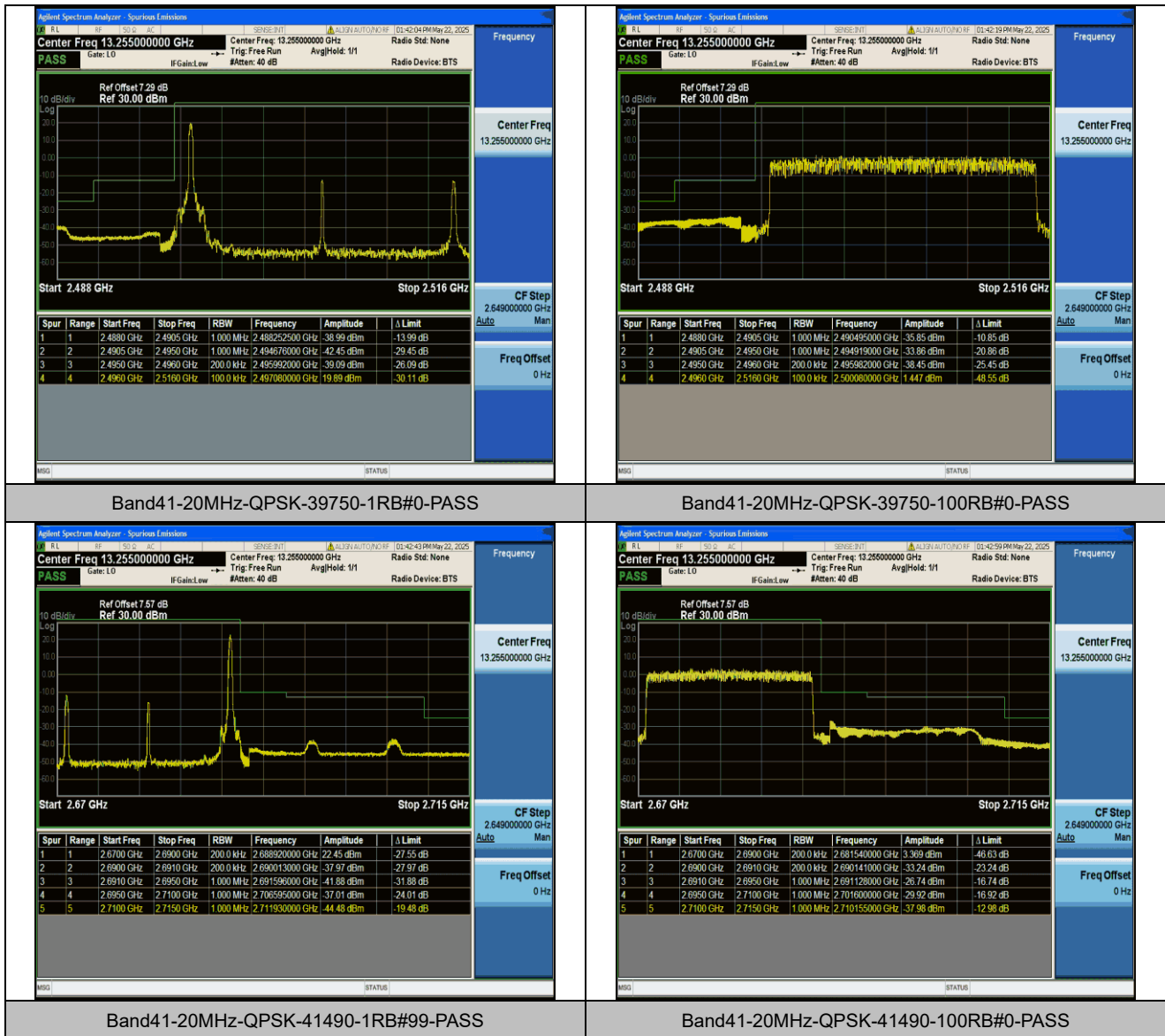
Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-QPSK-41515-1RB#74-PASS

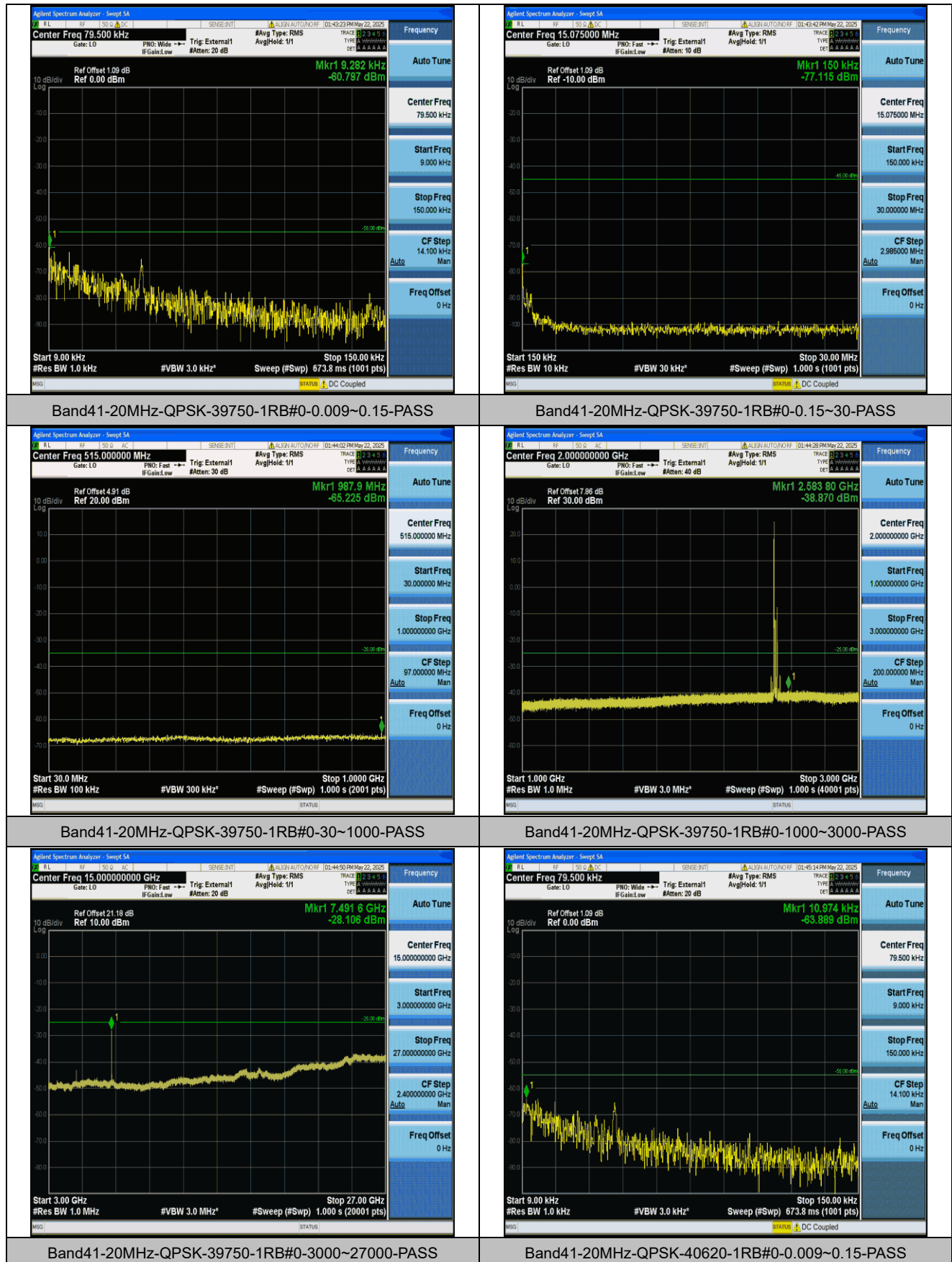


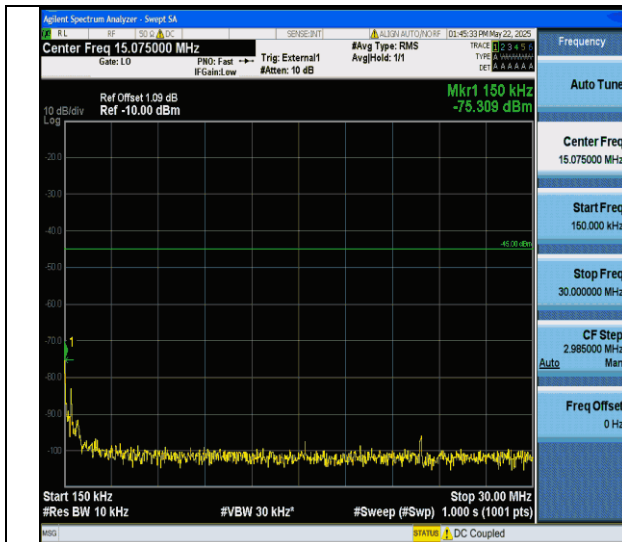
Band41-15MHz-QPSK-41515-75RB#0-PASS



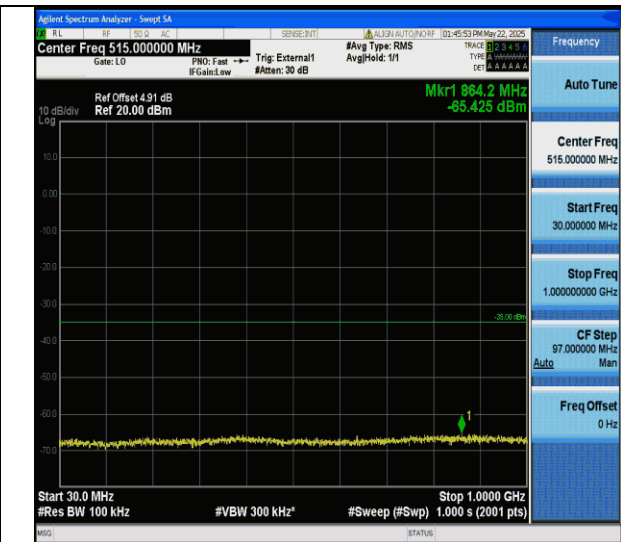
Conducted Spurious Emission

Test Graphs

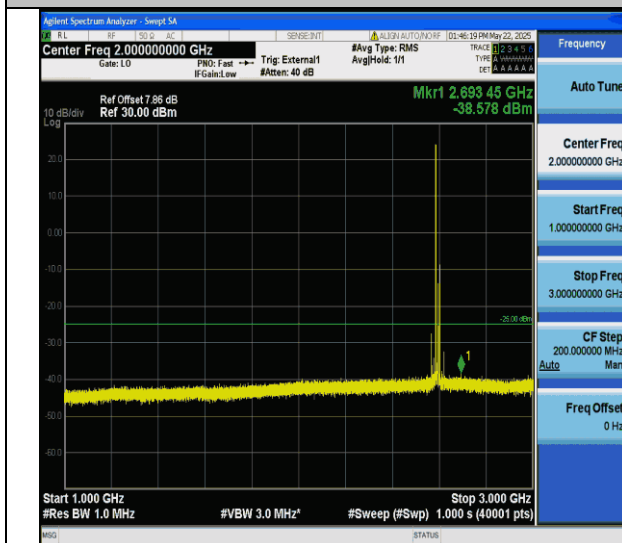




Band41-20MHz-QPSK-40620-1RB#0-0.15~30-PASS



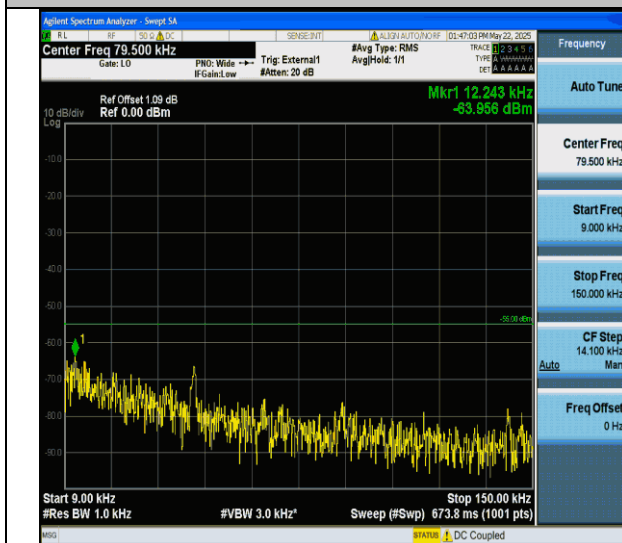
Band41-20MHz-QPSK-40620-1RB#0-30~1000-PASS



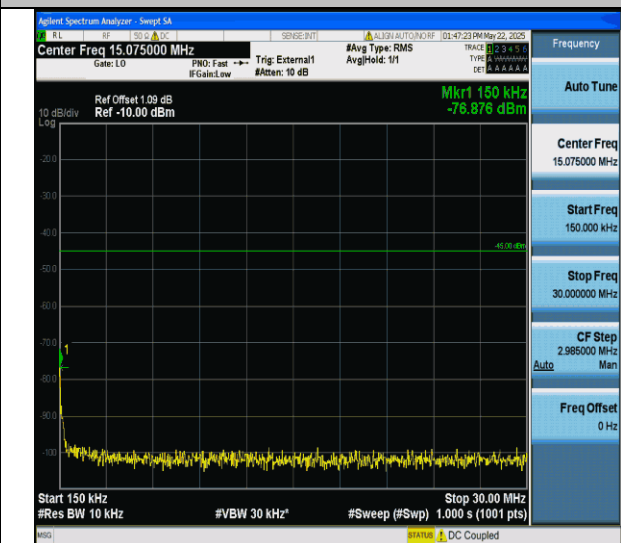
Band41-20MHz-QPSK-40620-1RB#0-1000~3000-PASS



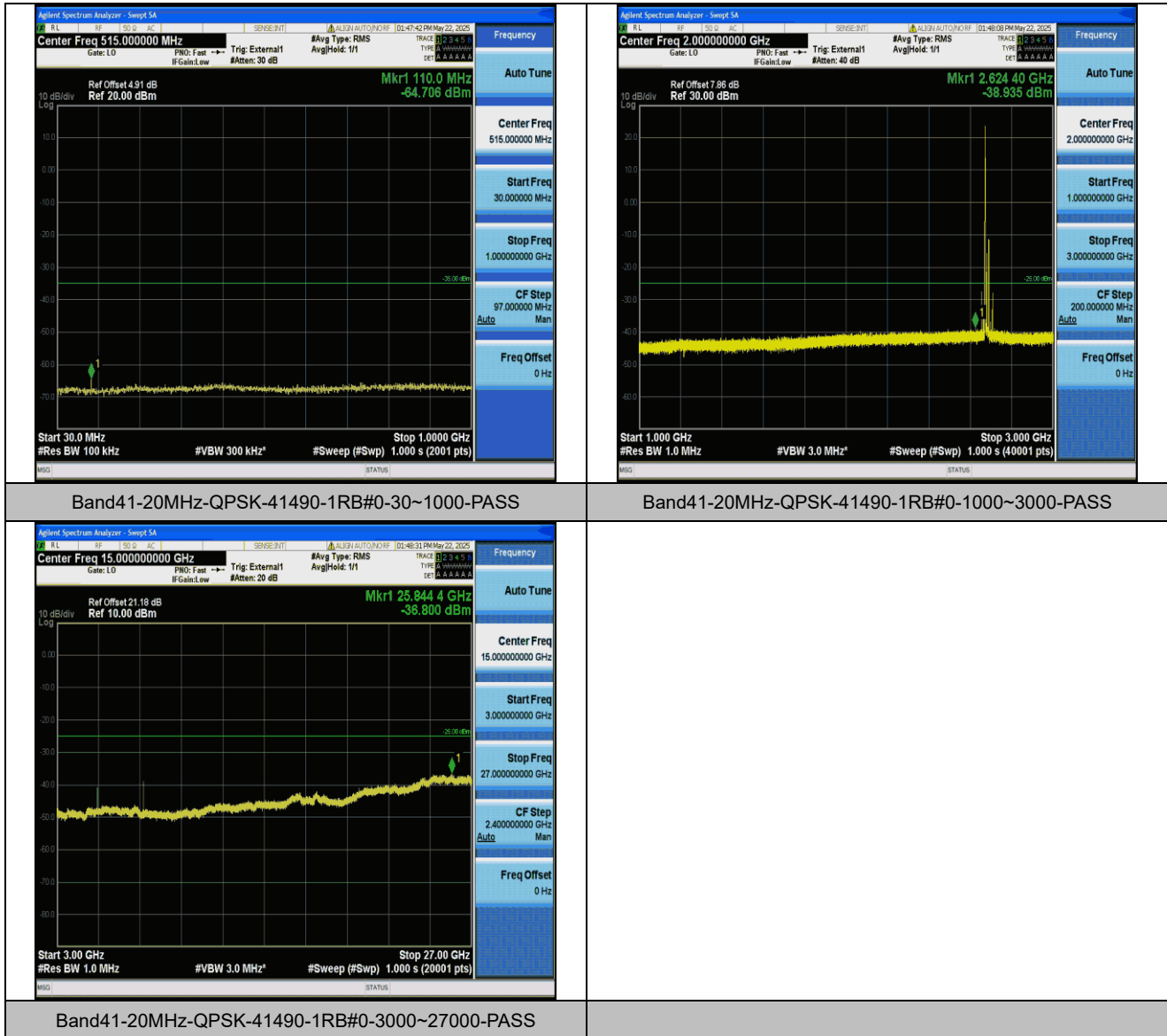
Band41-20MHz-QPSK-40620-1RB#0-3000~27000-PASS



Band41-20MHz-QPSK-41490-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-41490-1RB#0-0.15~30-PASS



Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-6.75	-0.002603	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-8.80	-0.003394	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-8.54	-0.003293	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-7.95	-0.003066	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-4.49	-0.001732	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-5.65	-0.002179	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-6.77	-0.002611	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-6.88	-0.002653	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-10.51	-0.004053	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-7.71	-0.002973	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-8.97	-0.003459	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-7.70	-0.002970	PASS

~The End~