

Appendix-C 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	23.53	25.36	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.35	25.18	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.51	25.34	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.59	24.42	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.58	25.41	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.59	25.42	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.72	25.55	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.67	24.5	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.71	25.54	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.74	25.57	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.66	25.49	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.69	24.52	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.14	24.97	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.73	24.56	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.03	24.86	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.51	23.34	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.12	24.95	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.11	25.94	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.04	24.87	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.67	23.5	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.97	24.8	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.09	24.92	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.03	24.86	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.72	23.55	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.45	25.28	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.62	25.45	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.5	25.33	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.64	24.47	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.65	25.48	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.73	25.56	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.51	25.34	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.7	24.53	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.67	25.5	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.71	25.54	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.62	25.45	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.77	24.6	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.82	24.65	33.00	PASS

Band41	10MHz	16QAM	39700	1RB#24	22.96	24.79	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.68	24.51	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.65	23.48	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	23	24.83	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.84	24.67	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.77	24.6	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.73	23.56	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.01	24.84	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.94	24.77	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.87	24.7	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.76	23.59	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.53	25.36	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.93	25.76	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.45	25.28	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.04	24.87	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.71	25.54	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.97	25.8	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.37	25.2	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.14	24.97	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.63	25.46	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.9	25.73	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.19	25.02	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.14	24.97	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.88	24.71	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.16	24.99	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.74	24.57	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.05	23.88	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.97	24.8	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.23	25.06	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.73	24.56	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.04	23.87	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.89	24.72	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.26	25.09	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.43	24.26	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.12	23.95	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.82	25.65	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.02	25.85	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.25	25.08	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.99	24.82	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.96	25.79	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.94	25.77	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.34	25.17	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.93	24.76	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.67	25.5	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.87	25.7	33.00	PASS

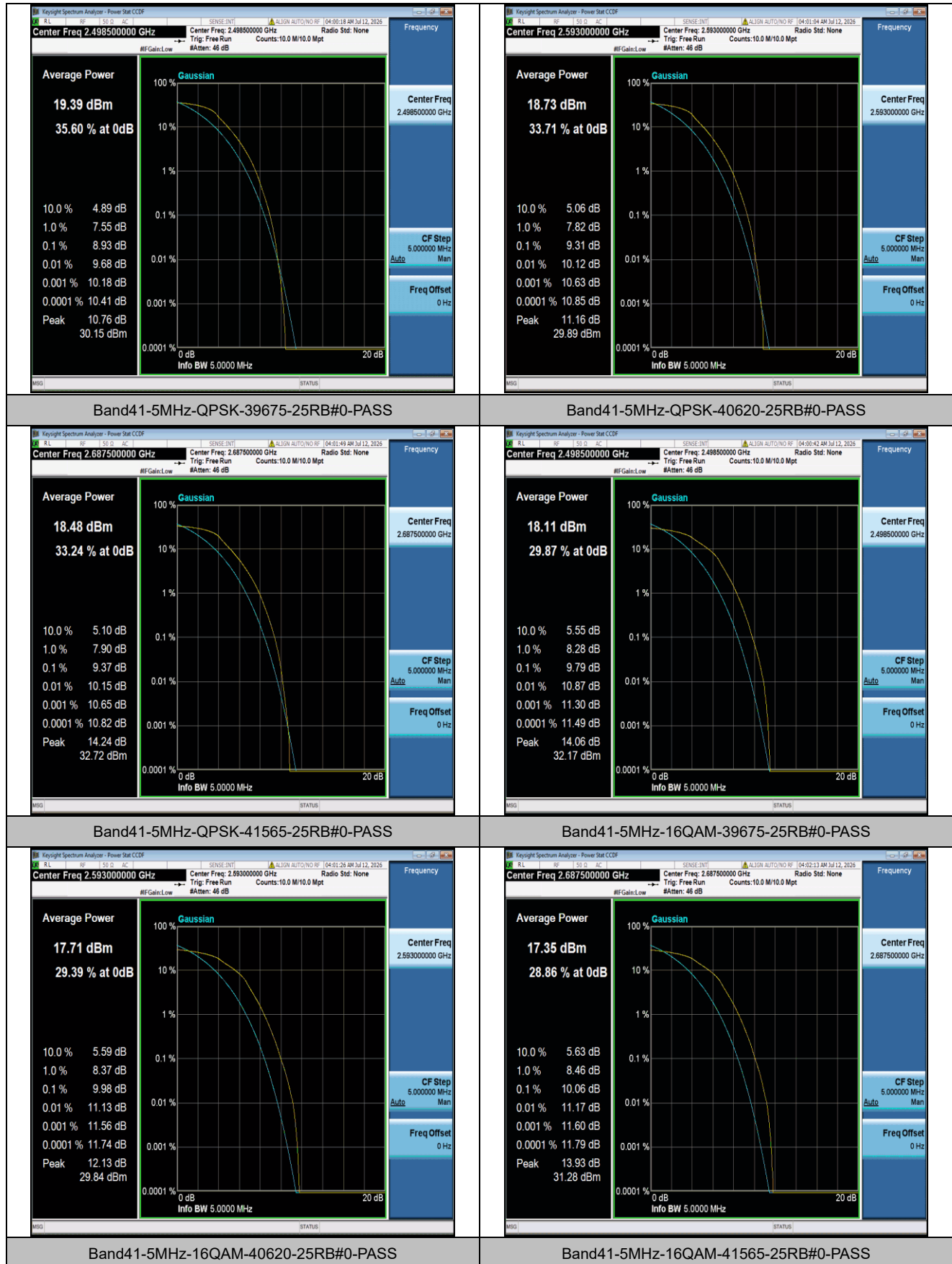
Band41	20MHz	QPSK	41490	1RB#99	23.04	24.87	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.76	24.59	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	23	24.83	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.27	25.1	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.68	24.51	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.01	23.84	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.22	25.05	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.29	25.12	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.6	24.43	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.03	23.86	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.91	24.74	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.13	24.96	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.32	24.15	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.79	23.62	33.00	PASS

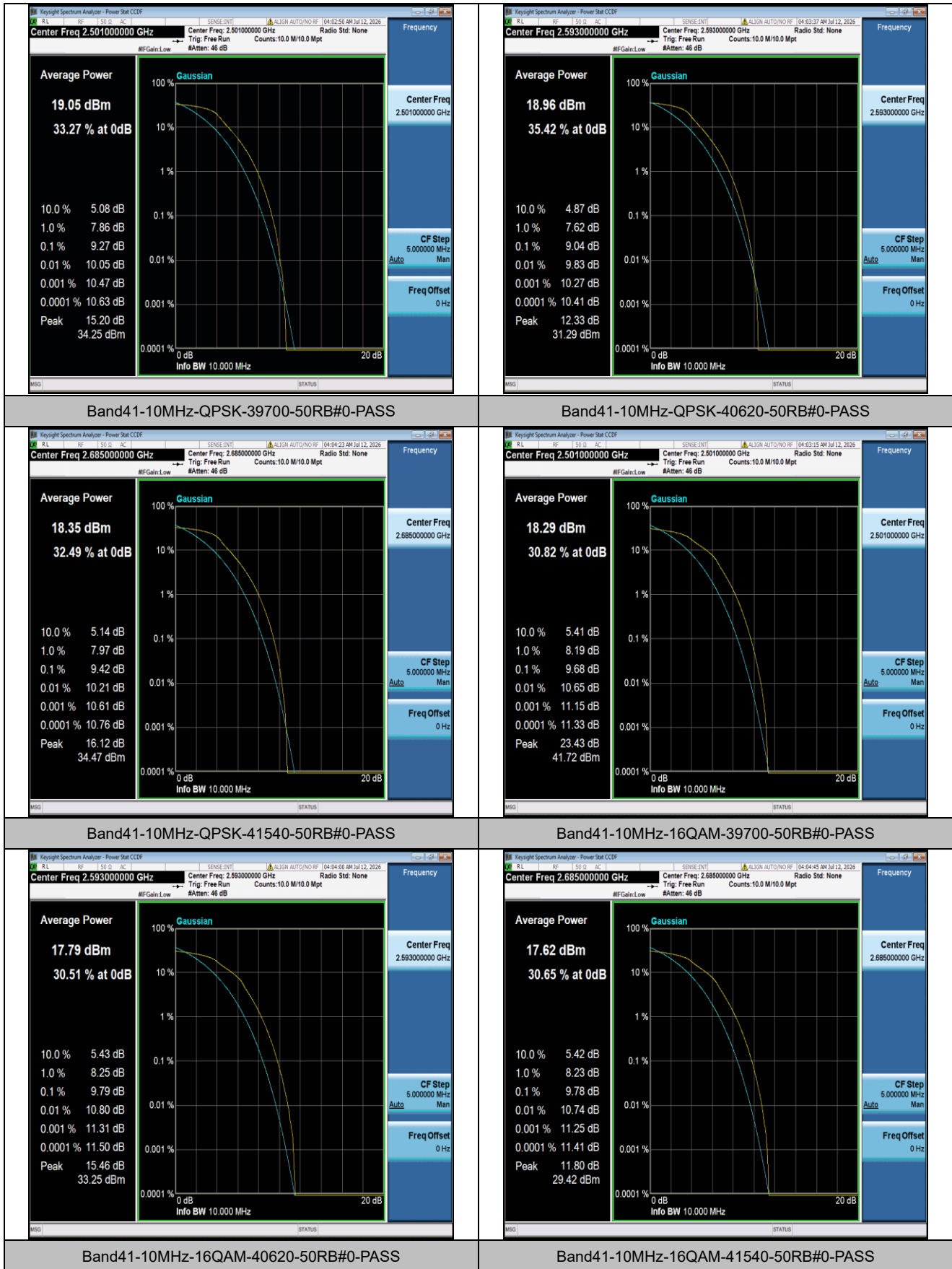
Peak-to-Average Ratio(CCDF)

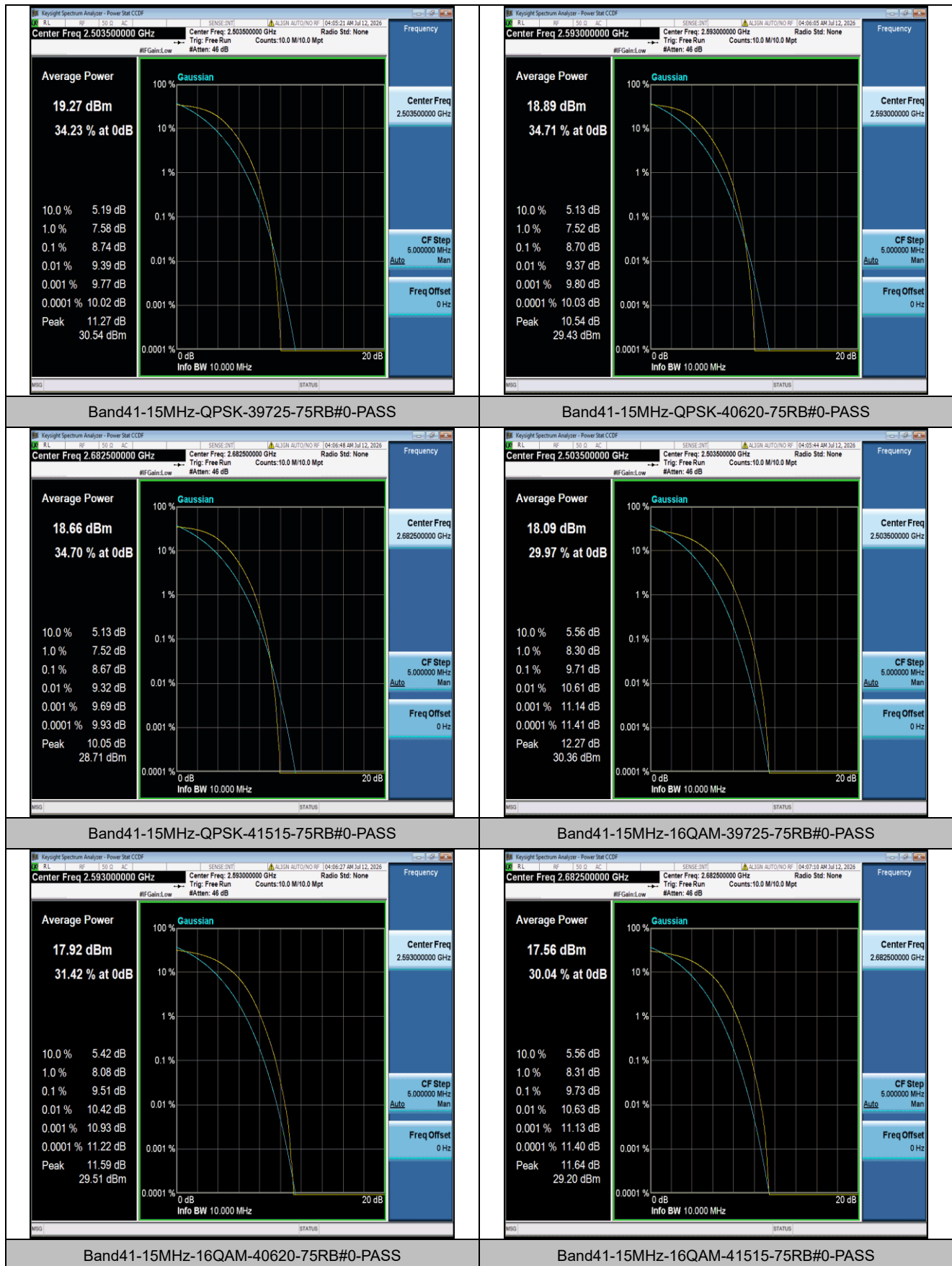
Test Result

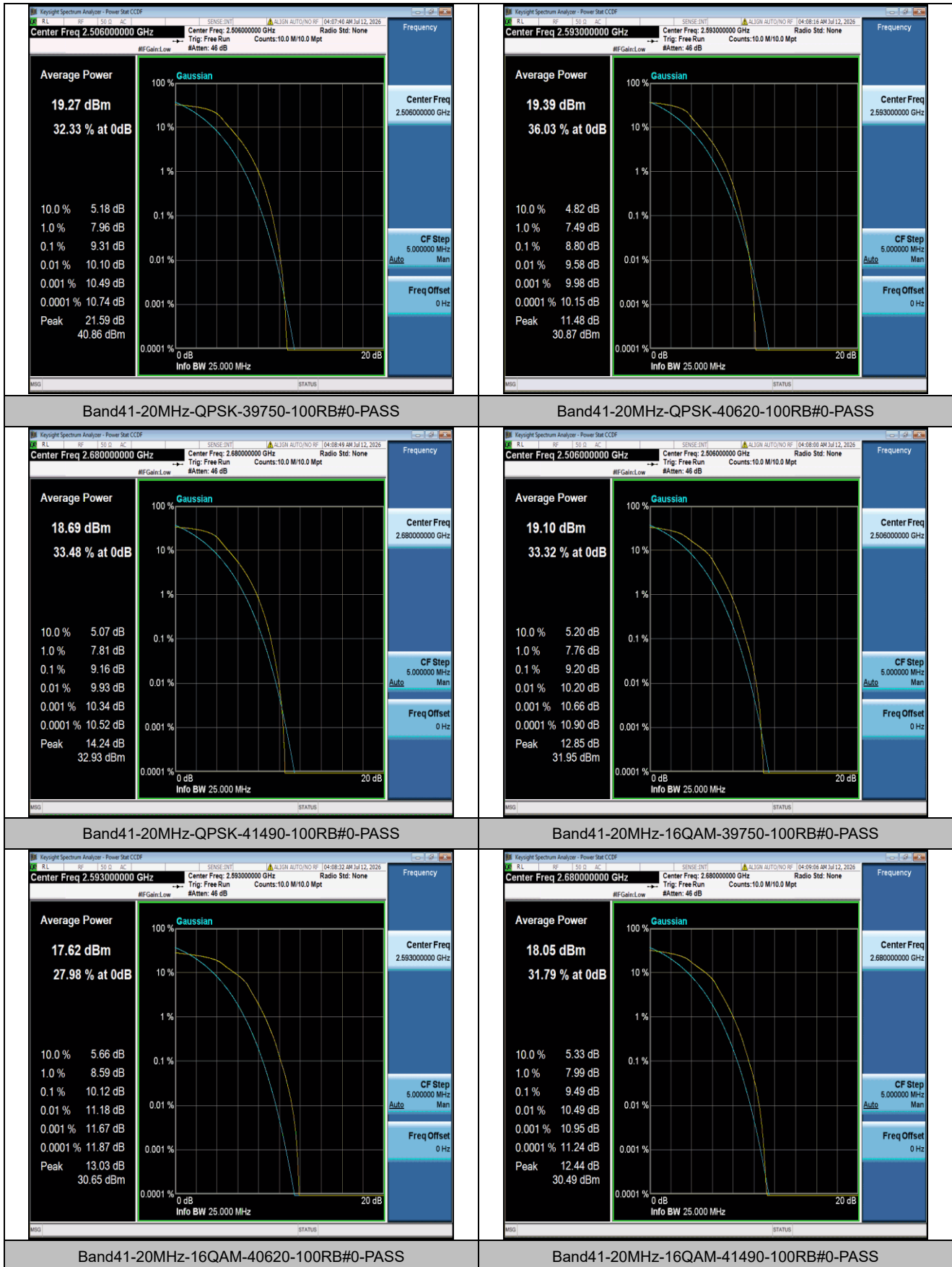
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	8.93	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.31	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.37	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.79	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.98	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	10.06	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.27	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.04	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.42	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.68	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.79	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.78	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.74	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	8.70	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.67	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.71	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.51	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.73	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.31	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.80	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.16	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.20	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	10.12	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.49	13	PASS

Test Graphs







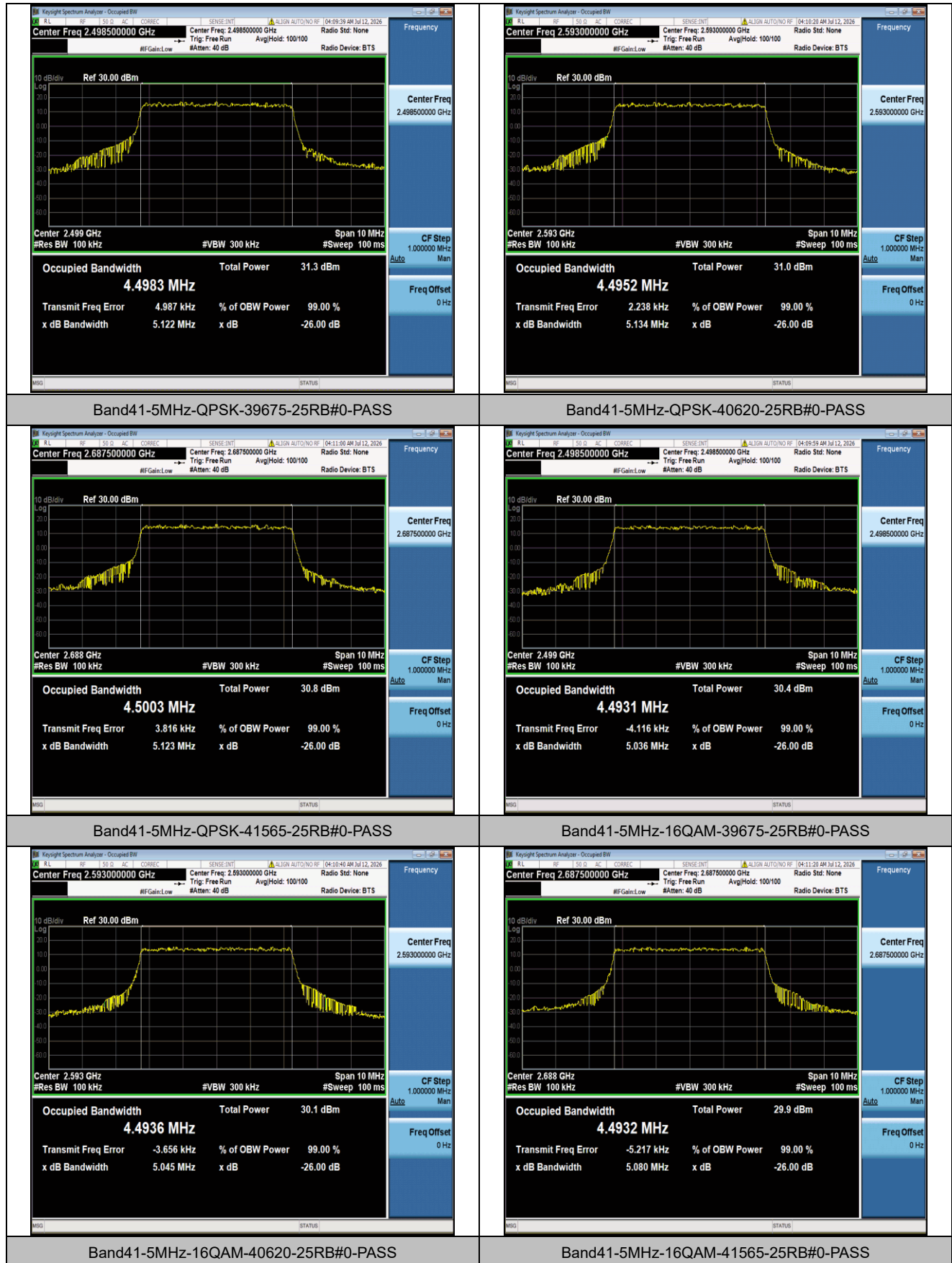


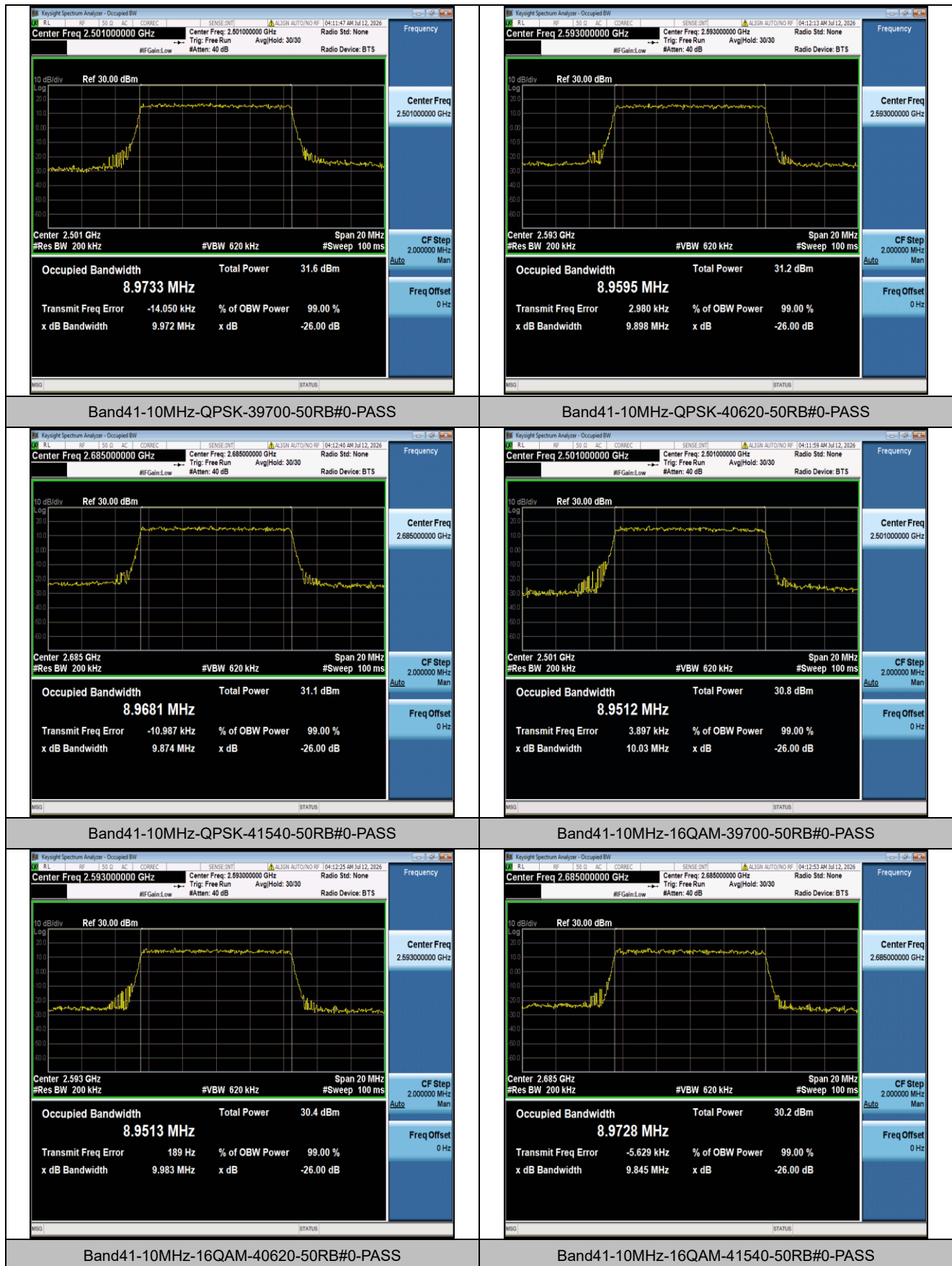
26dB Bandwidth and Occupied Bandwidth

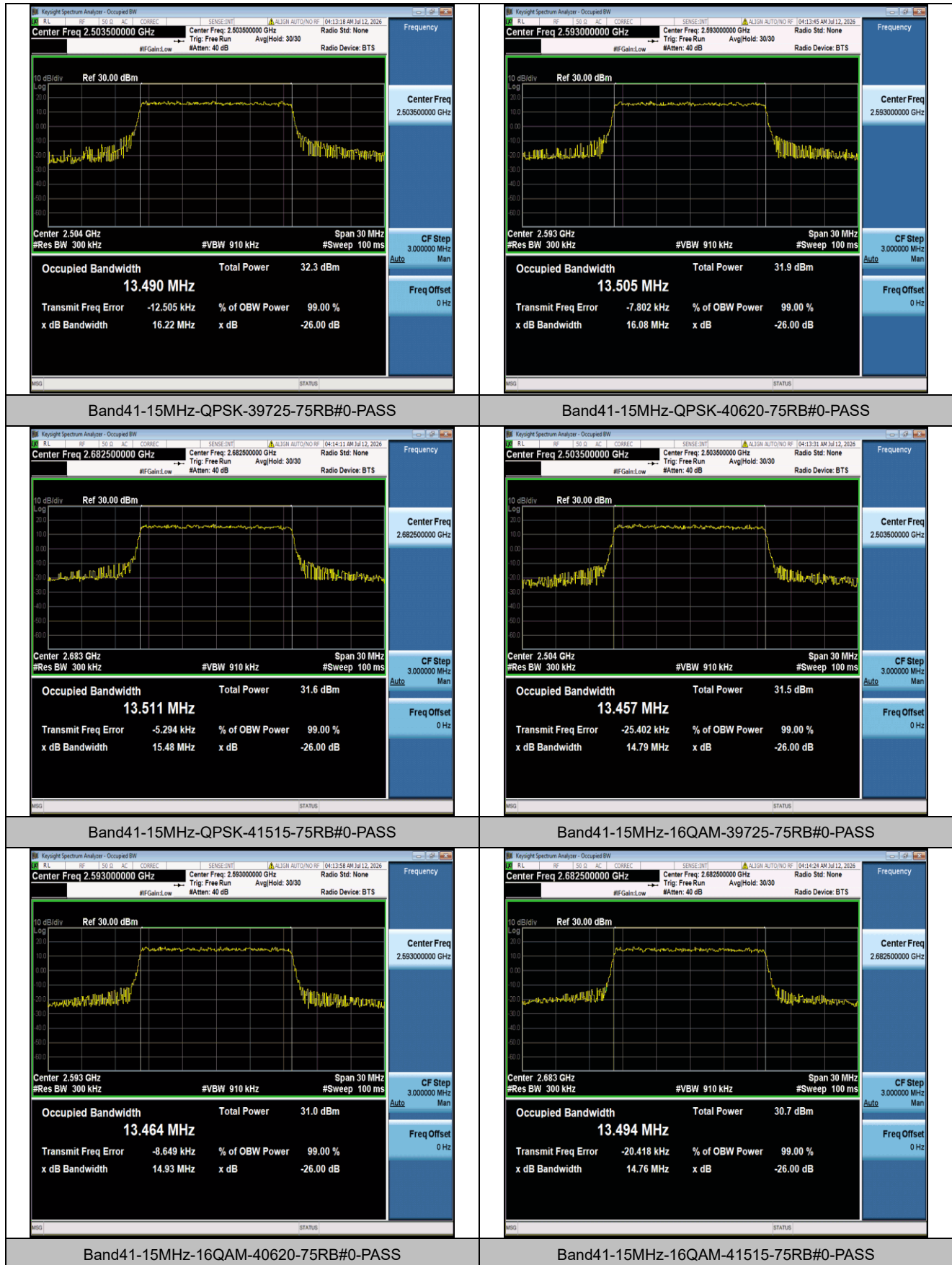
Test Result

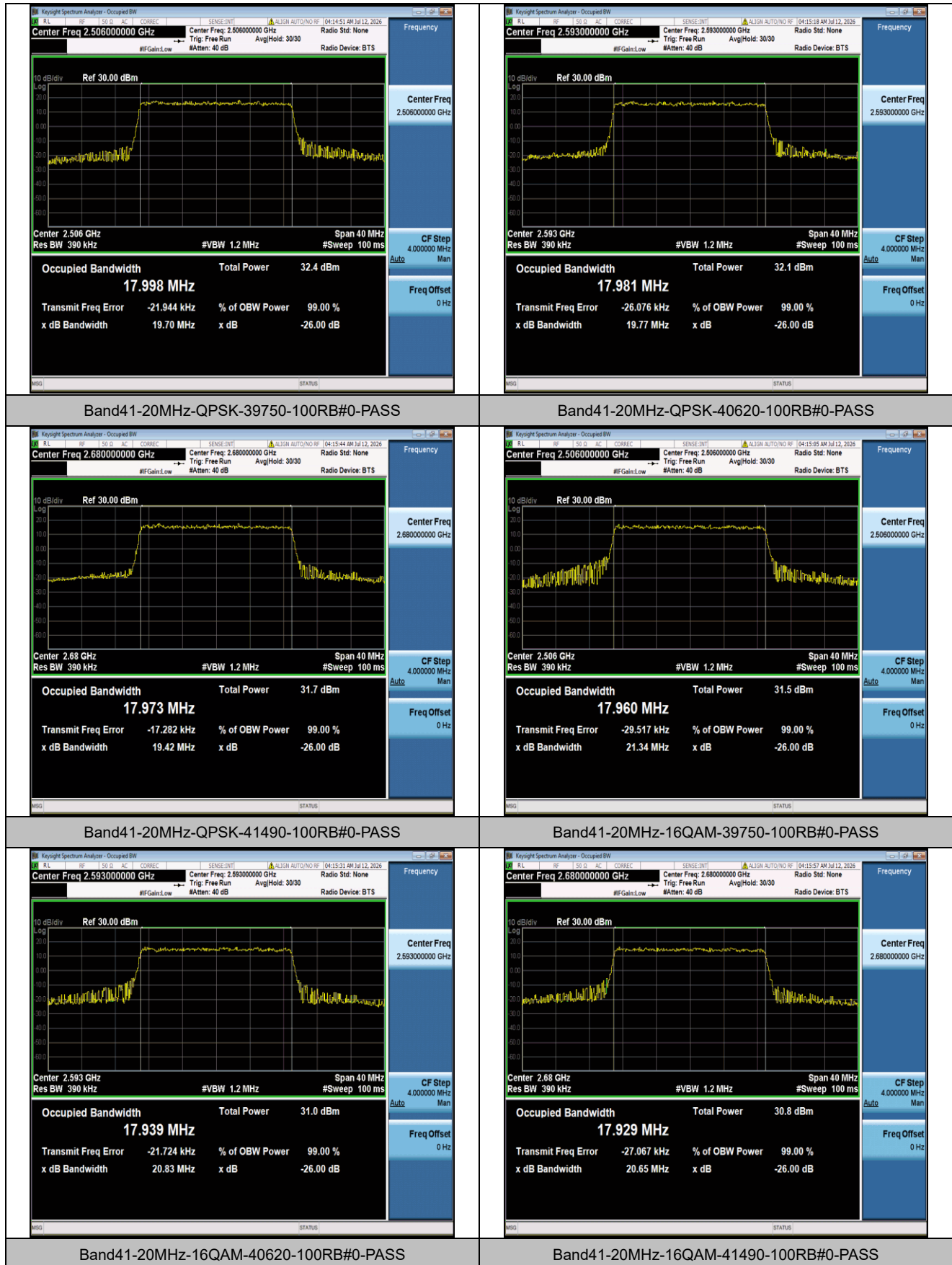
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4983	5.122	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4952	5.134	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5003	5.123	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4931	5.036	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4936	5.045	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4932	5.080	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9733	9.972	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9595	9.898	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9681	9.874	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9512	10.03	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9513	9.983	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9728	9.845	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.490	16.22	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.505	16.08	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.511	15.48	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.457	14.79	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.464	14.93	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.494	14.76	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.998	19.70	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.981	19.77	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.973	19.42	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.960	21.34	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.939	20.83	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.929	20.65	PASS

Test Graphs



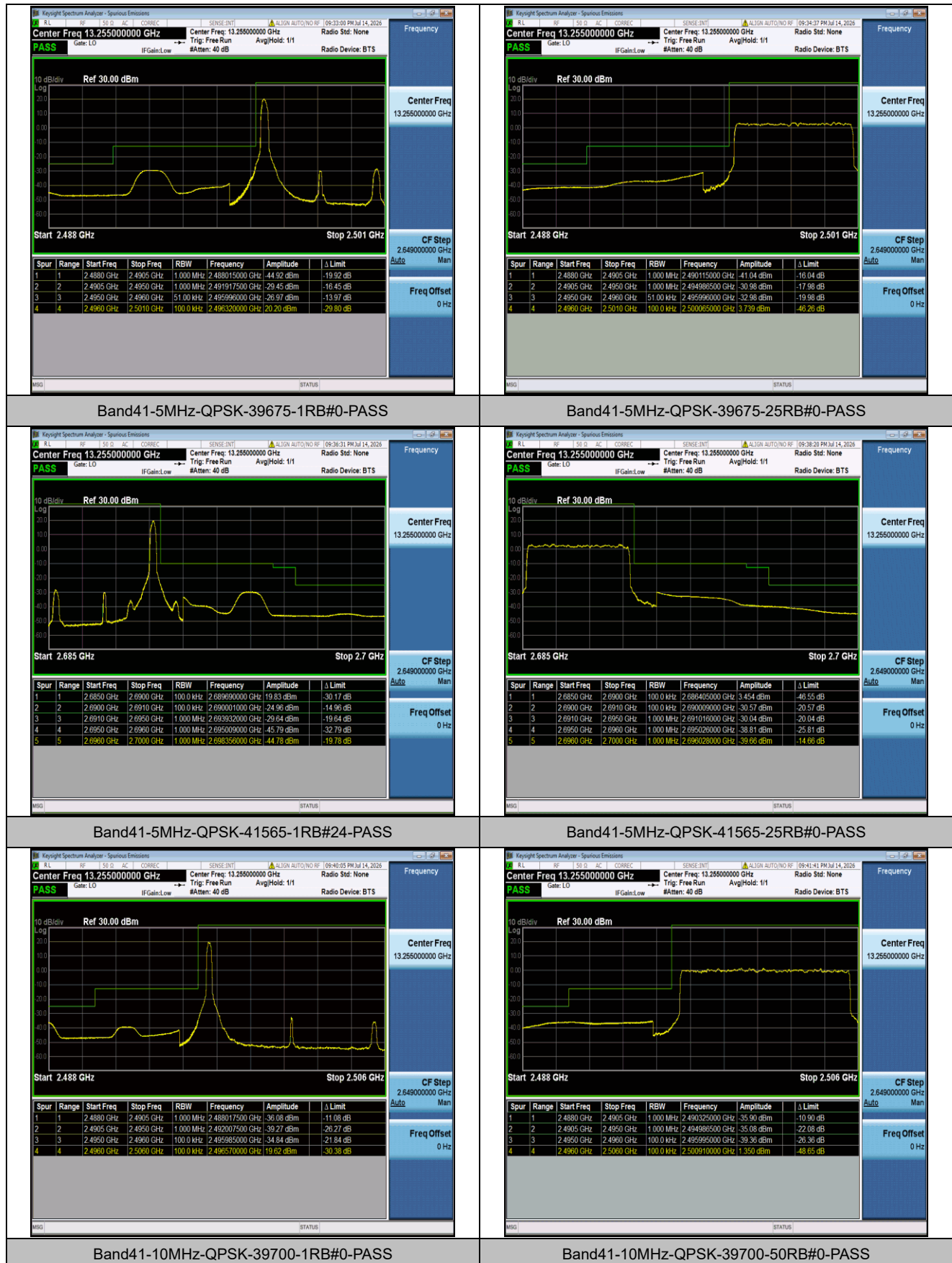


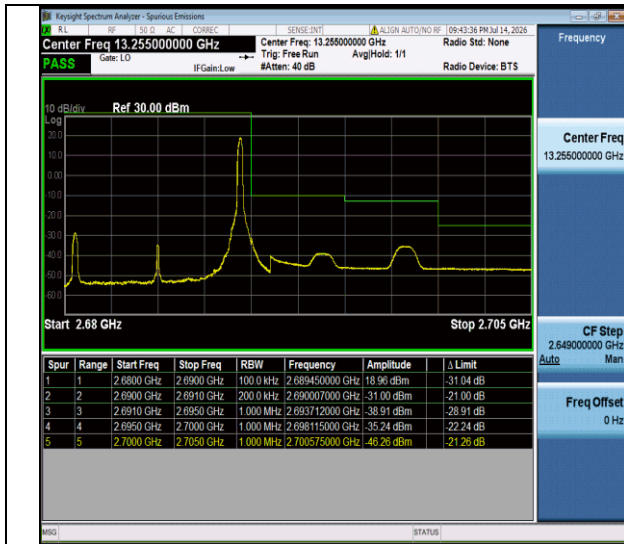




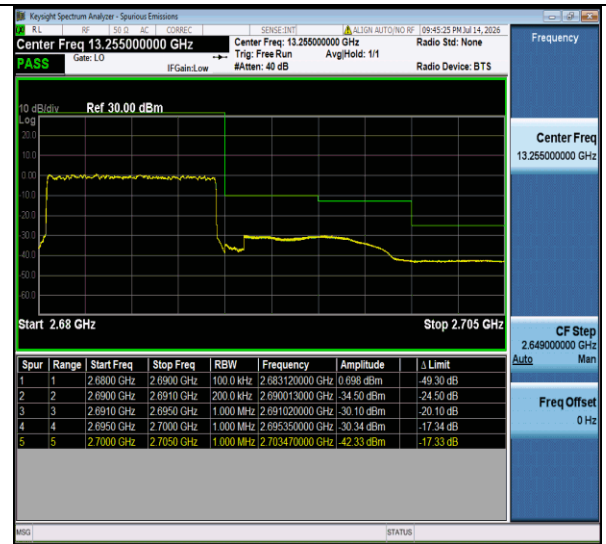
Band Edge

Test Graphs

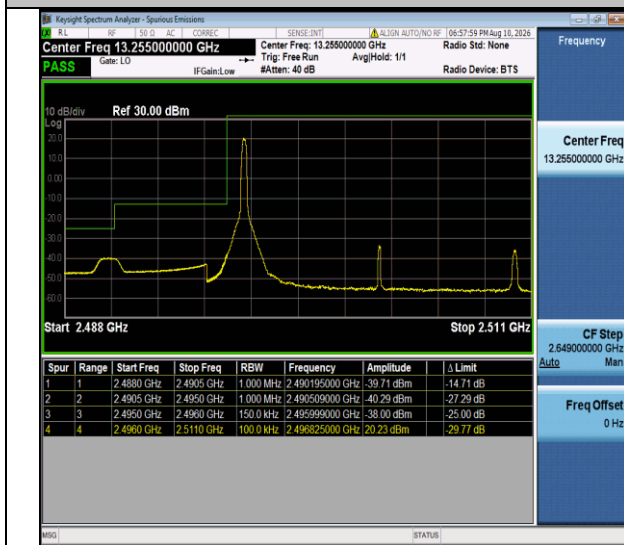




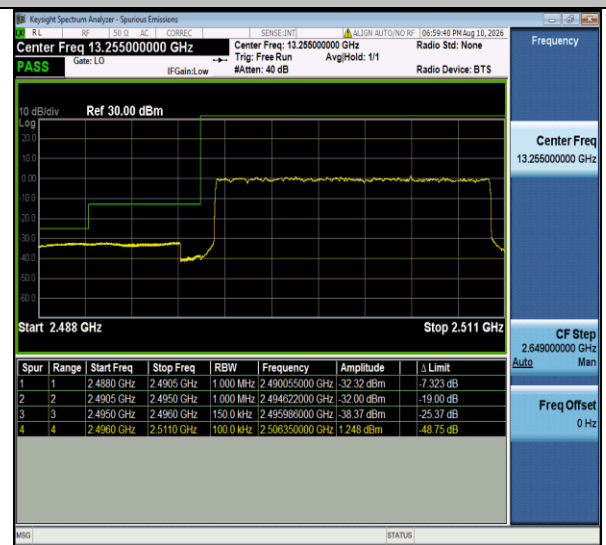
Band41-10MHz-QPSK-41540-1RB#49-PASS



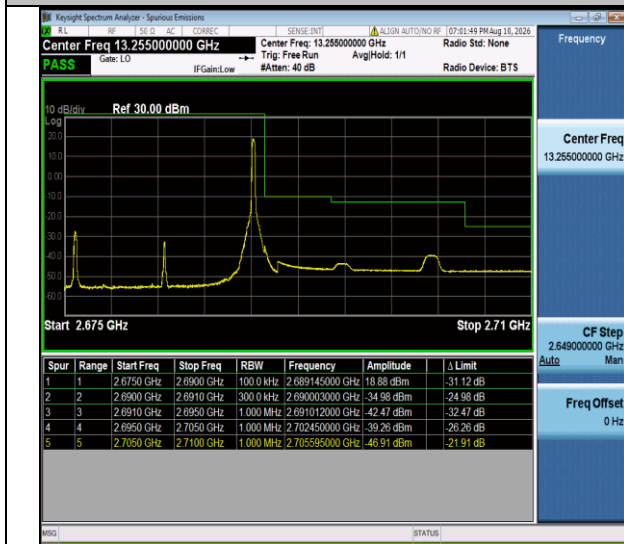
Band41-10MHz-QPSK-41540-50RB#0-PASS



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



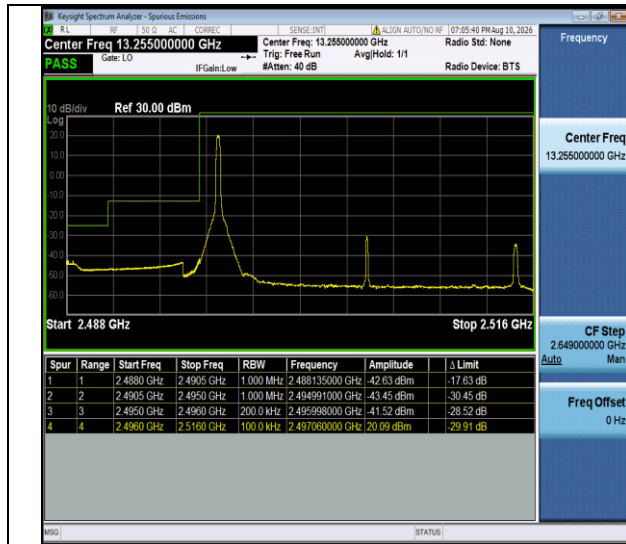
Band41-15MHz-QPSK-39725-75RB#0-PASS



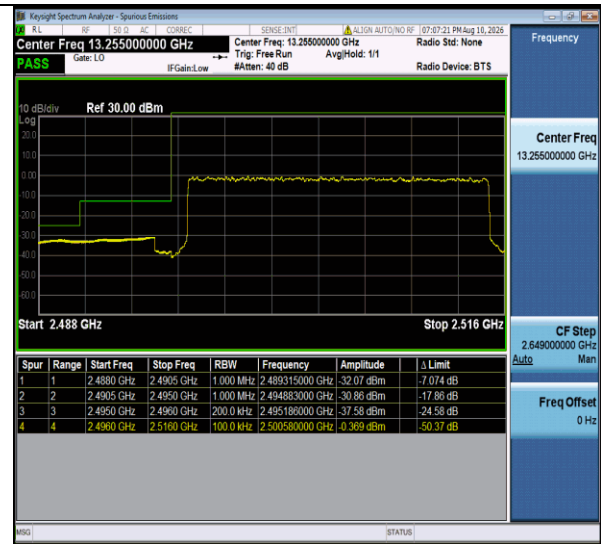
Band41-15MHz-QPSK-41515-1RB#74-PASS



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



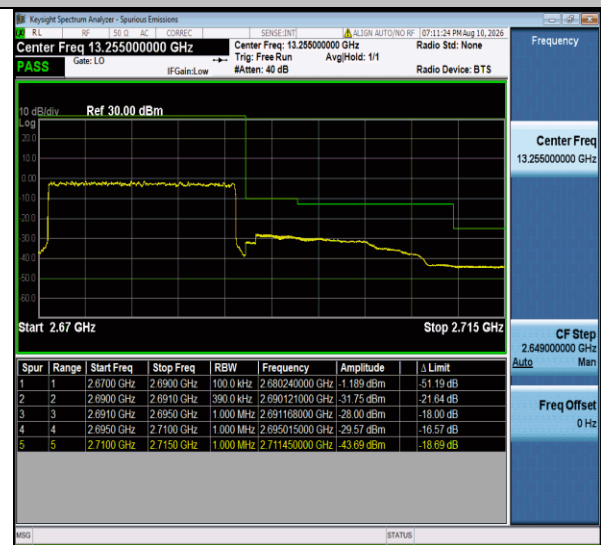
Band41-20MHz-QPSK-39750-1RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS



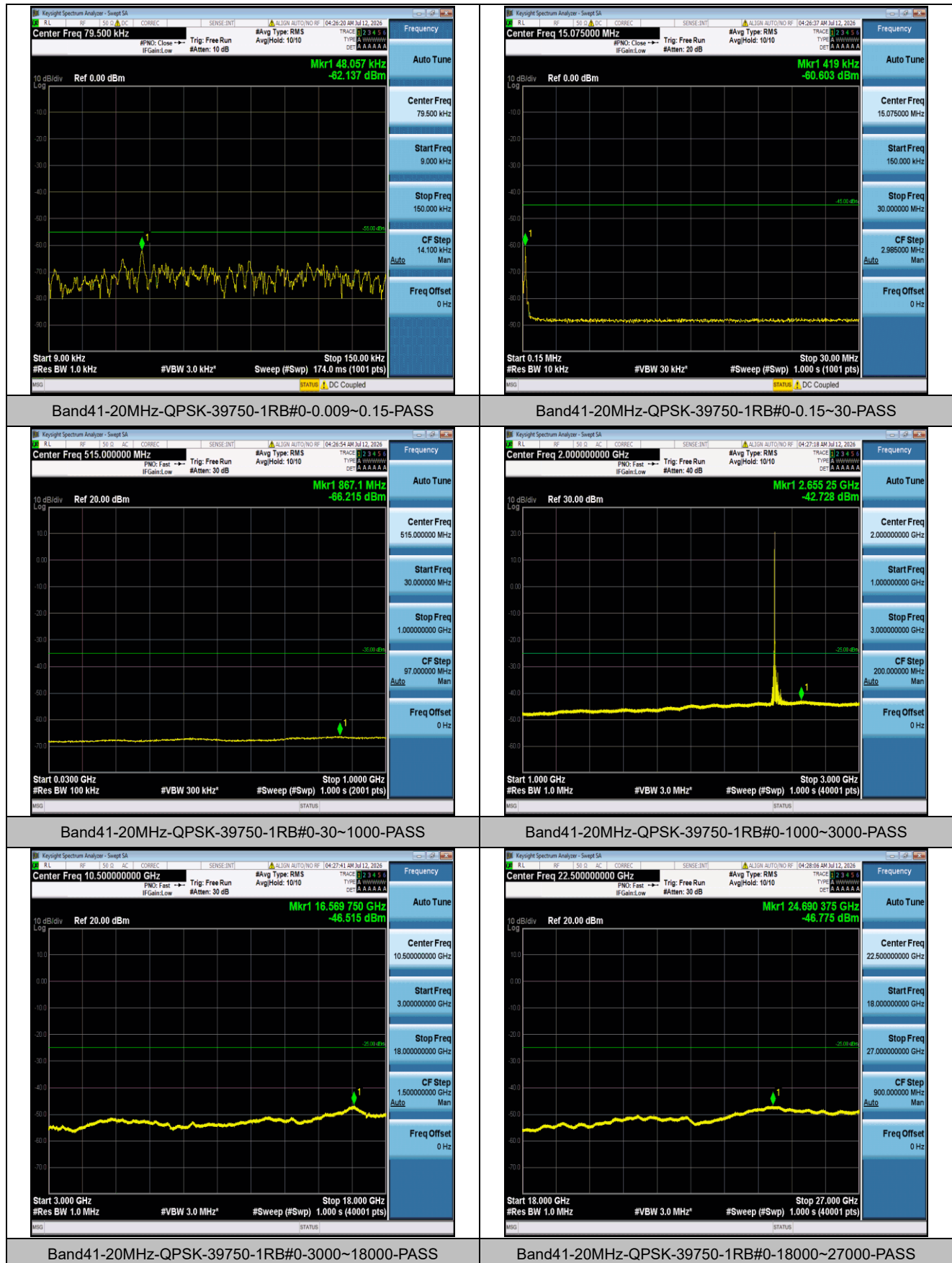
Band41-20MHz-QPSK-41490-1RB#99-PASS

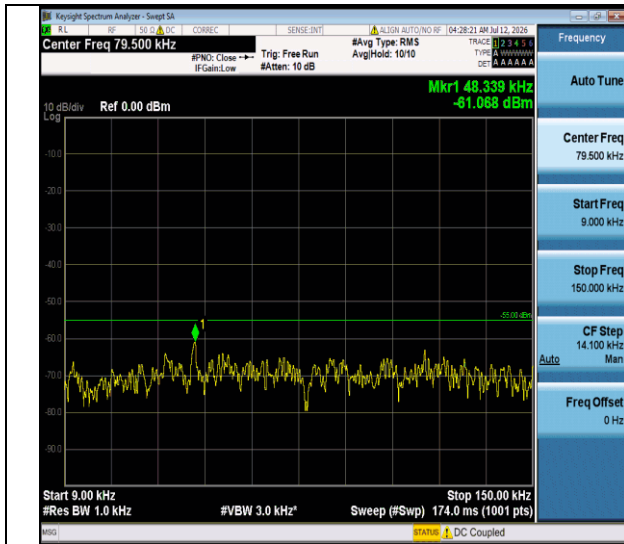


Band41-20MHz-QPSK-41490-100RB#0-PASS

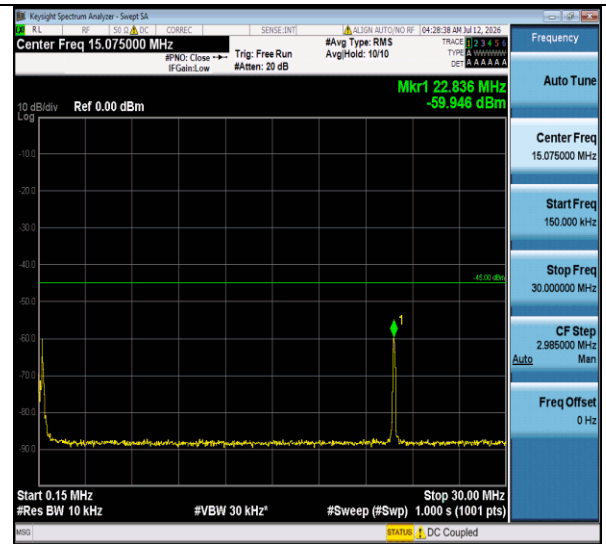
Conducted Spurious Emission

Test Graphs

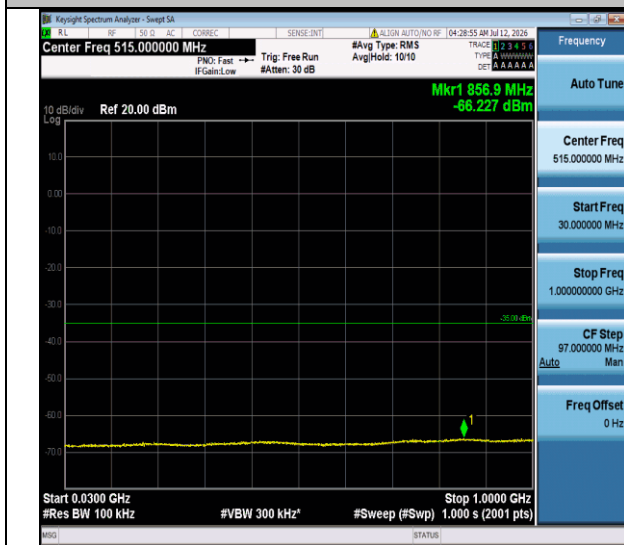




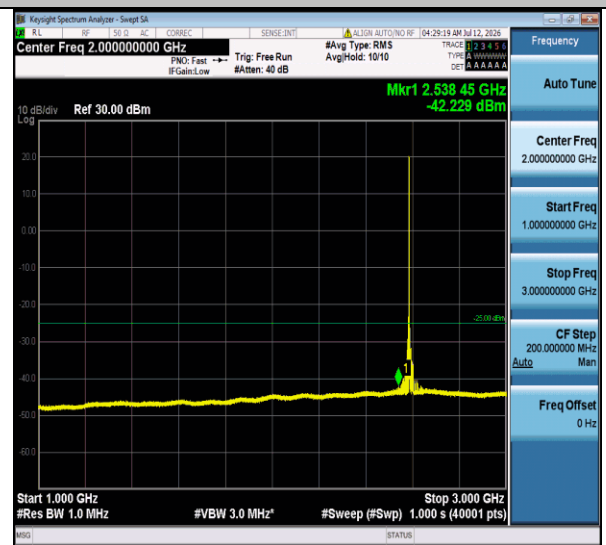
Band41-20MHz-QPSK-40620-1RB#0-0.009~0.15-PASS



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



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



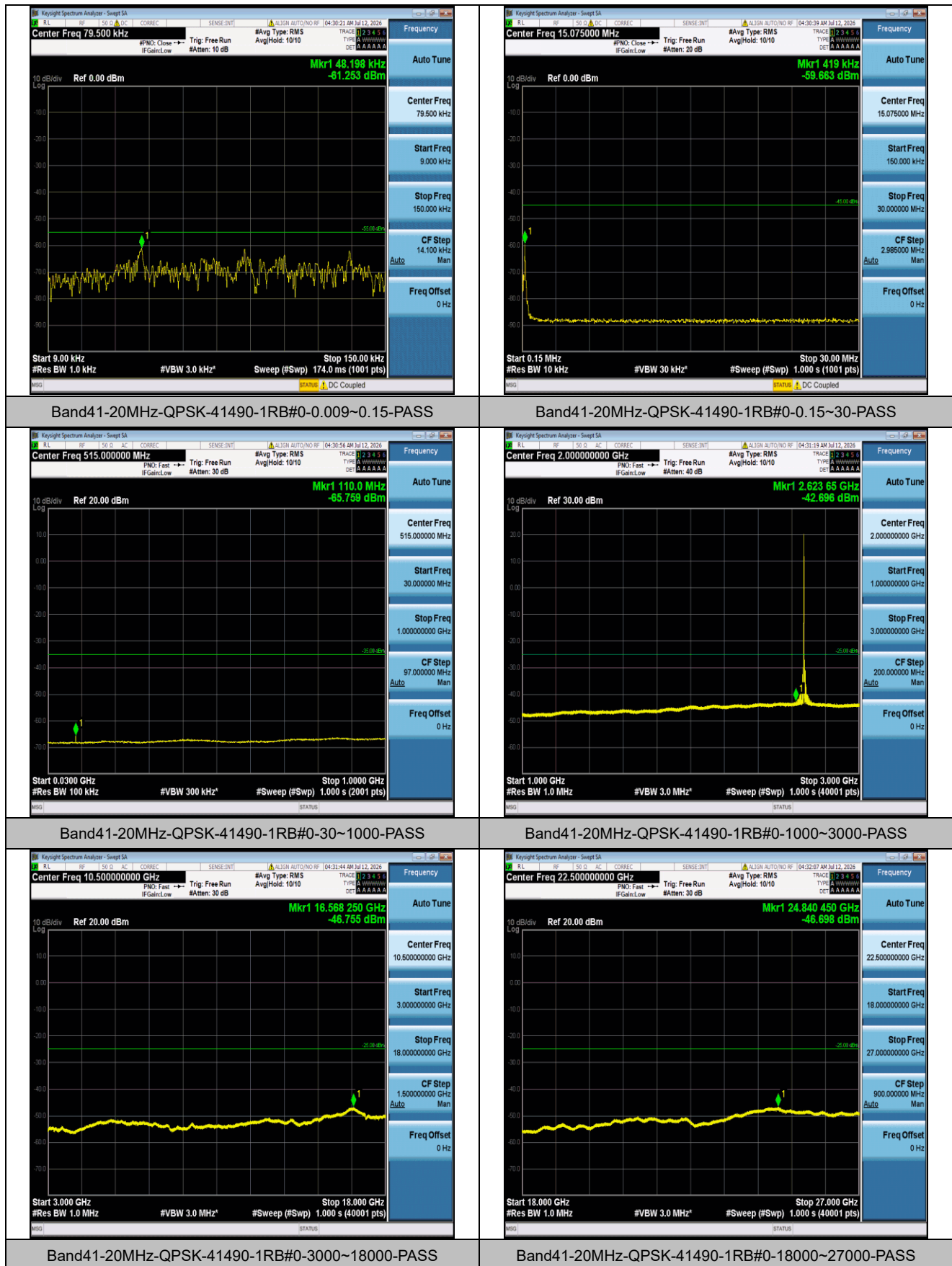
Band41-20MHz-QPSK-40620-1RB#0-1000~3000-PASS



Band41-20MHz-QPSK-40620-1RB#0-3000~18000-PASS



Band41-20MHz-QPSK-40620-1RB#0-18000~27000-PASS



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-5.30	-0.002044	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-4.80	-0.001851	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-1.20	-0.000463	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-4.60	-0.001774	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-3.10	-0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-7.30	-0.002815	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-2.40	-0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-3.20	-0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-5.80	-0.002237	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-4.60	-0.001774	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-1.80	-0.000694	PASS

~The End~