

Appendix-A LTE Band 2

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.15	24.95	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.25	25.05	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.15	24.95	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.57	24.37	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.72	24.52	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.36	24.16	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.46	24.26	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.76	23.56	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.48	25.28	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.38	25.18	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.48	25.28	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.74	24.54	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.8	24.6	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.8	24.6	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.93	24.73	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.78	23.58	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.36	25.16	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.39	25.19	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.36	25.16	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.51	24.31	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.56	24.36	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.83	24.63	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.54	24.34	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.56	23.36	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.52	25.32	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.57	25.37	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.3	25.1	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.7	24.5	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.87	24.67	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.65	24.45	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.8	24.6	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.69	23.49	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.43	25.23	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.35	25.15	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.38	25.18	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.8	24.6	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.78	24.58	33.00	PASS

Band2	3MHz	16QAM	18900	1RB#8	22.8	24.6	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.91	24.71	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.79	23.59	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.36	25.16	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.34	25.14	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.2	25	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.59	24.39	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.39	24.19	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.88	24.68	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.44	24.24	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.45	23.25	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.24	25.04	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.75	25.55	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.16	24.96	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.74	24.54	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.49	24.29	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.35	24.15	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.66	24.46	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.9	23.7	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.44	25.24	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.53	25.33	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.1	24.9	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.84	24.64	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.88	24.68	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.59	24.39	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.37	24.17	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.95	23.75	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.1	24.9	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.58	25.38	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.34	25.14	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.52	24.32	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.38	24.18	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.89	24.69	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.3	24.1	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.36	23.16	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.29	25.09	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.55	25.35	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.49	25.29	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.7	24.5	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.69	24.49	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.87	24.67	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.75	24.55	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.62	23.42	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.51	25.31	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.71	25.51	33.00	PASS

Band2	10MHz	QPSK	18900	1RB#49	23.28	25.08	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.73	24.53	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.72	24.52	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.68	24.48	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.84	24.64	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.71	23.51	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.21	25.01	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.51	25.31	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.22	25.02	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.57	24.37	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.55	24.35	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.91	24.71	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.61	24.41	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.57	23.37	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.2	25	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.44	25.24	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.27	25.07	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.67	24.47	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.32	24.12	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.66	24.46	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.41	24.21	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.74	23.54	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.42	25.22	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.61	25.41	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.14	24.94	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.7	24.5	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.8	24.6	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.67	24.47	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.43	24.23	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.69	23.49	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.19	24.99	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.38	25.18	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.05	24.85	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.58	24.38	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.48	24.28	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.39	24.19	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.57	24.37	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.54	23.34	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.29	25.09	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.49	25.29	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.47	25.27	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.77	24.57	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.54	24.34	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.45	24.25	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.74	24.54	33.00	PASS

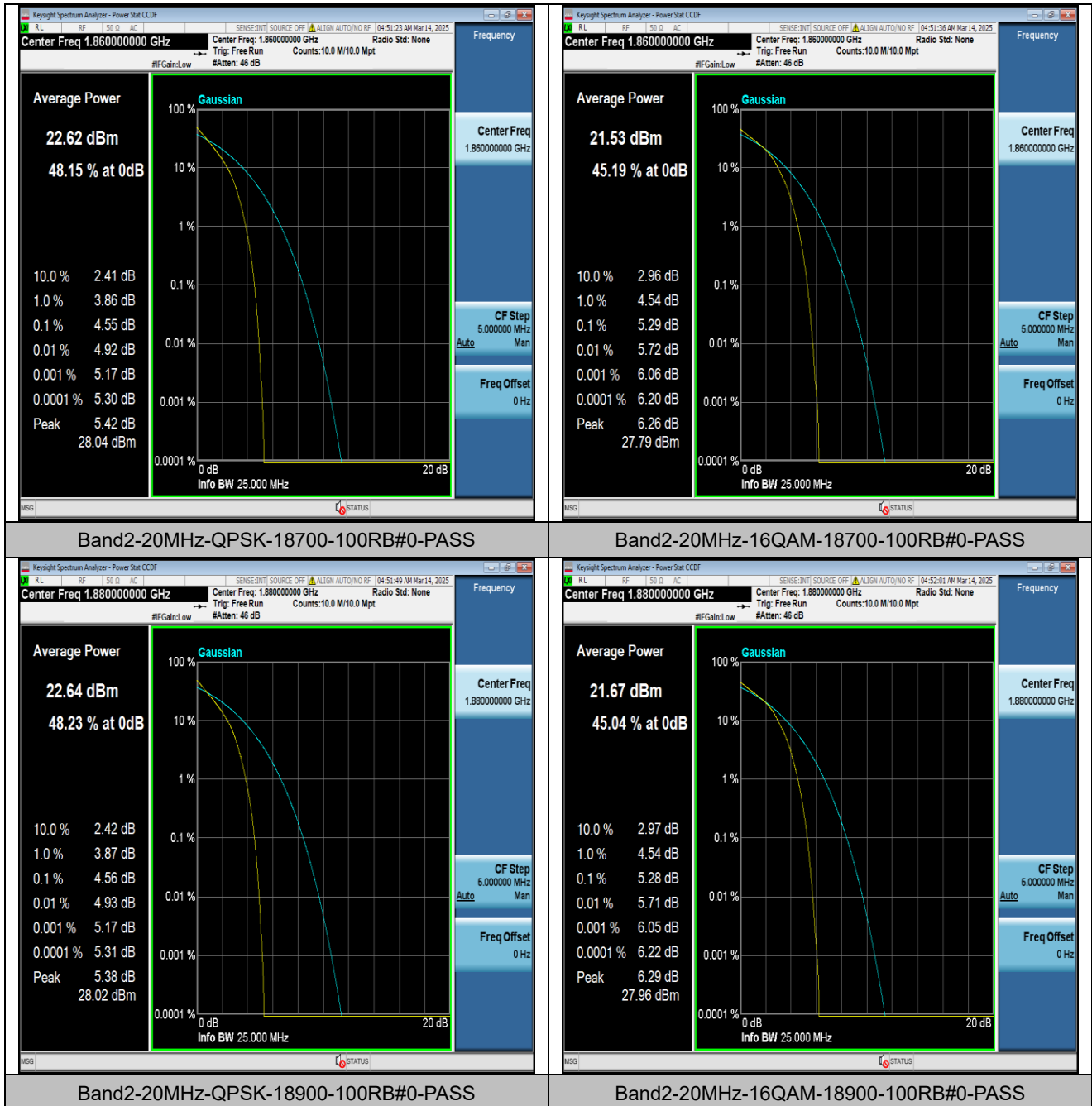
Band2	20MHz	16QAM	18700	100RB#0	21.8	23.6	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.68	25.48	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.73	25.53	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.24	25.04	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.72	24.52	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.59	24.39	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.75	24.55	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.49	24.29	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.68	23.48	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.27	25.07	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.57	25.37	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.19	24.99	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.61	24.41	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.66	24.46	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.51	24.31	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.56	24.36	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.47	23.27	33.00	PASS

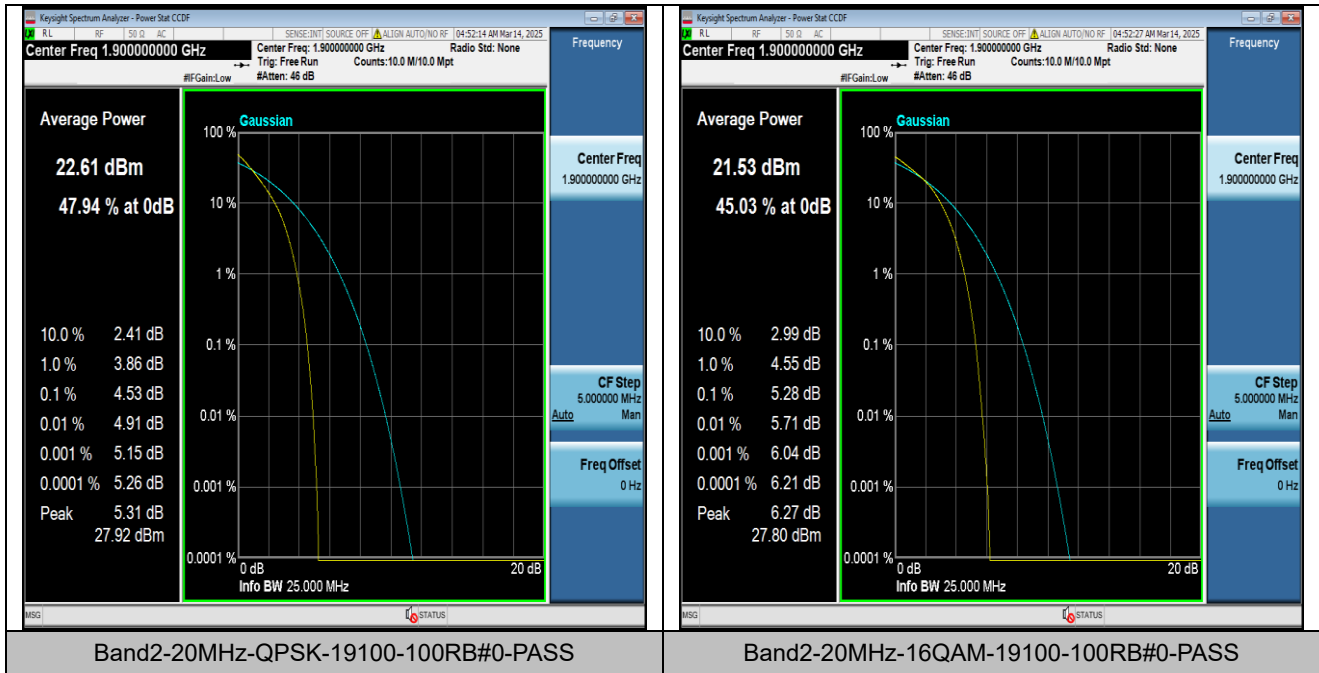
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.55	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.29	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.56	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.28	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.53	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.28	13	PASS

Test Graphs



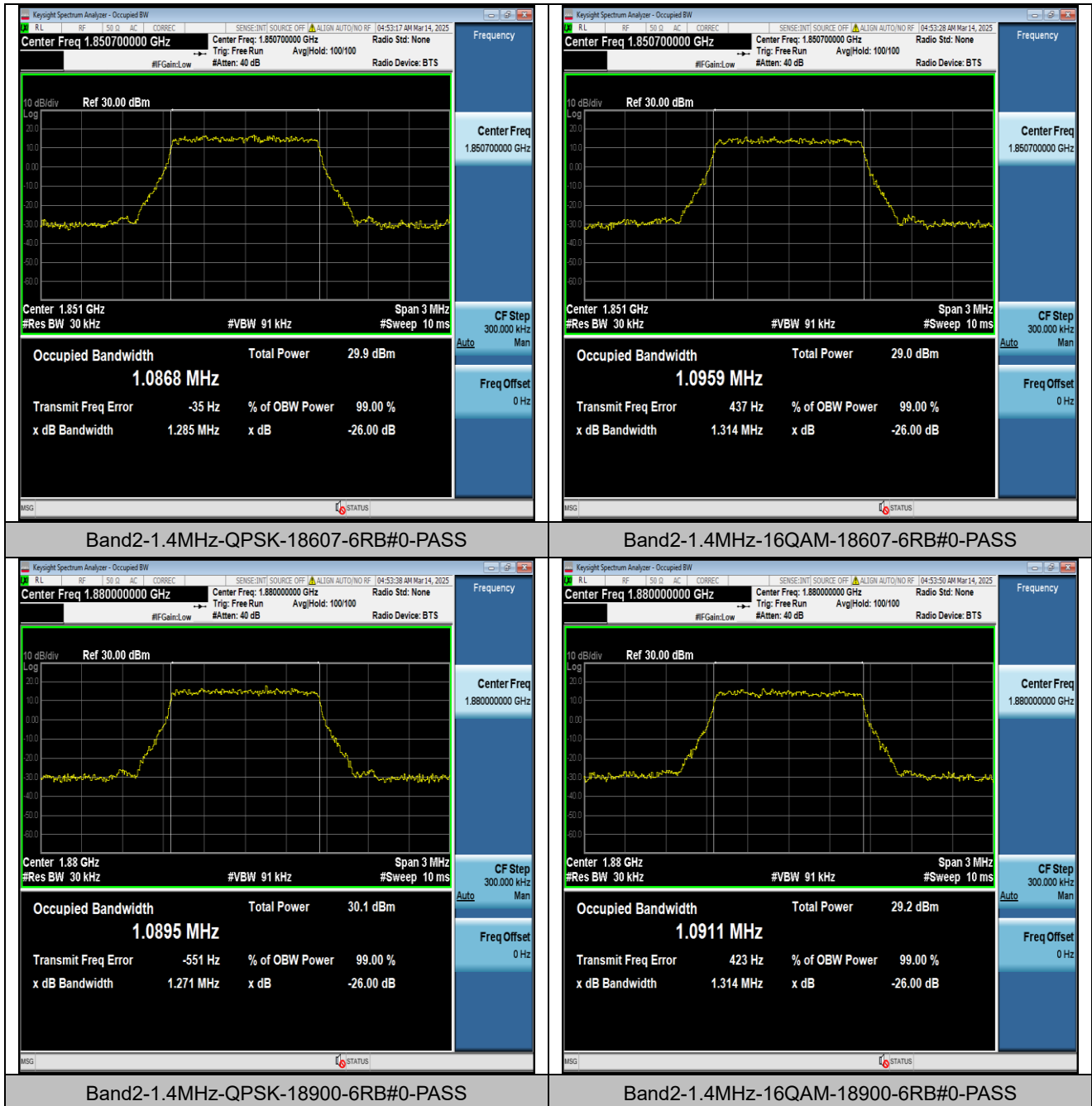


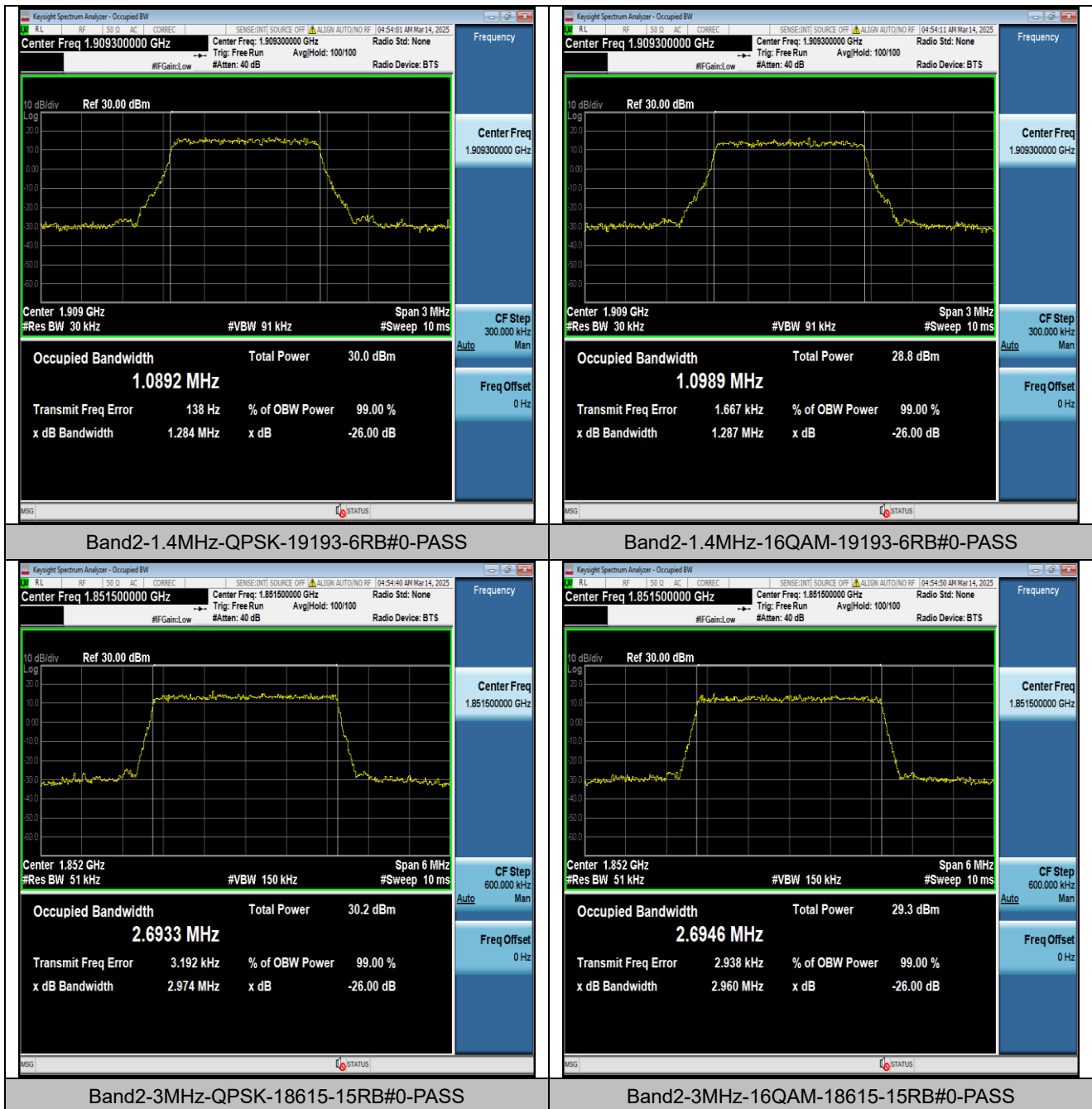
26dB Bandwidth and Occupied Bandwidth

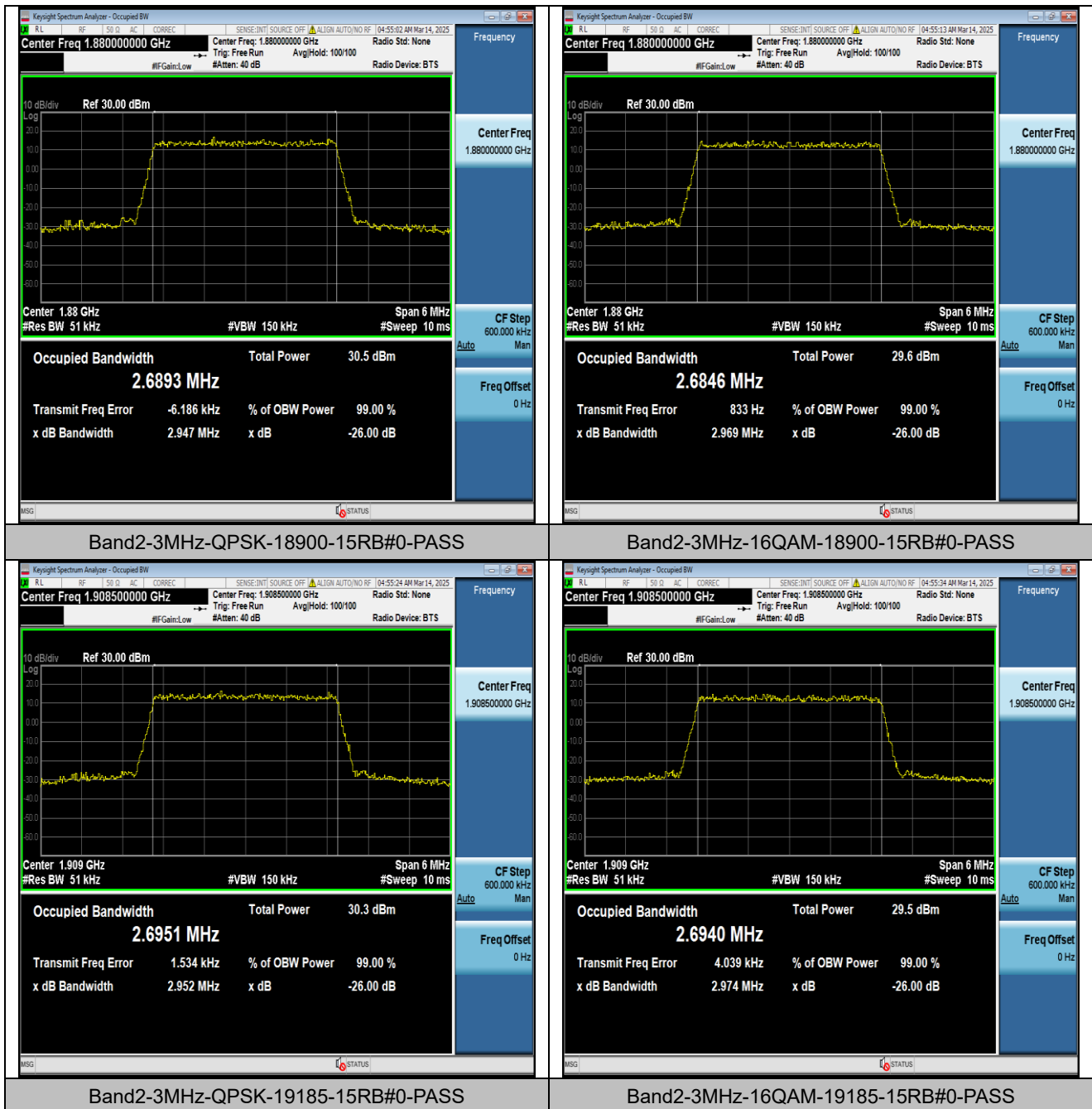
Test Result

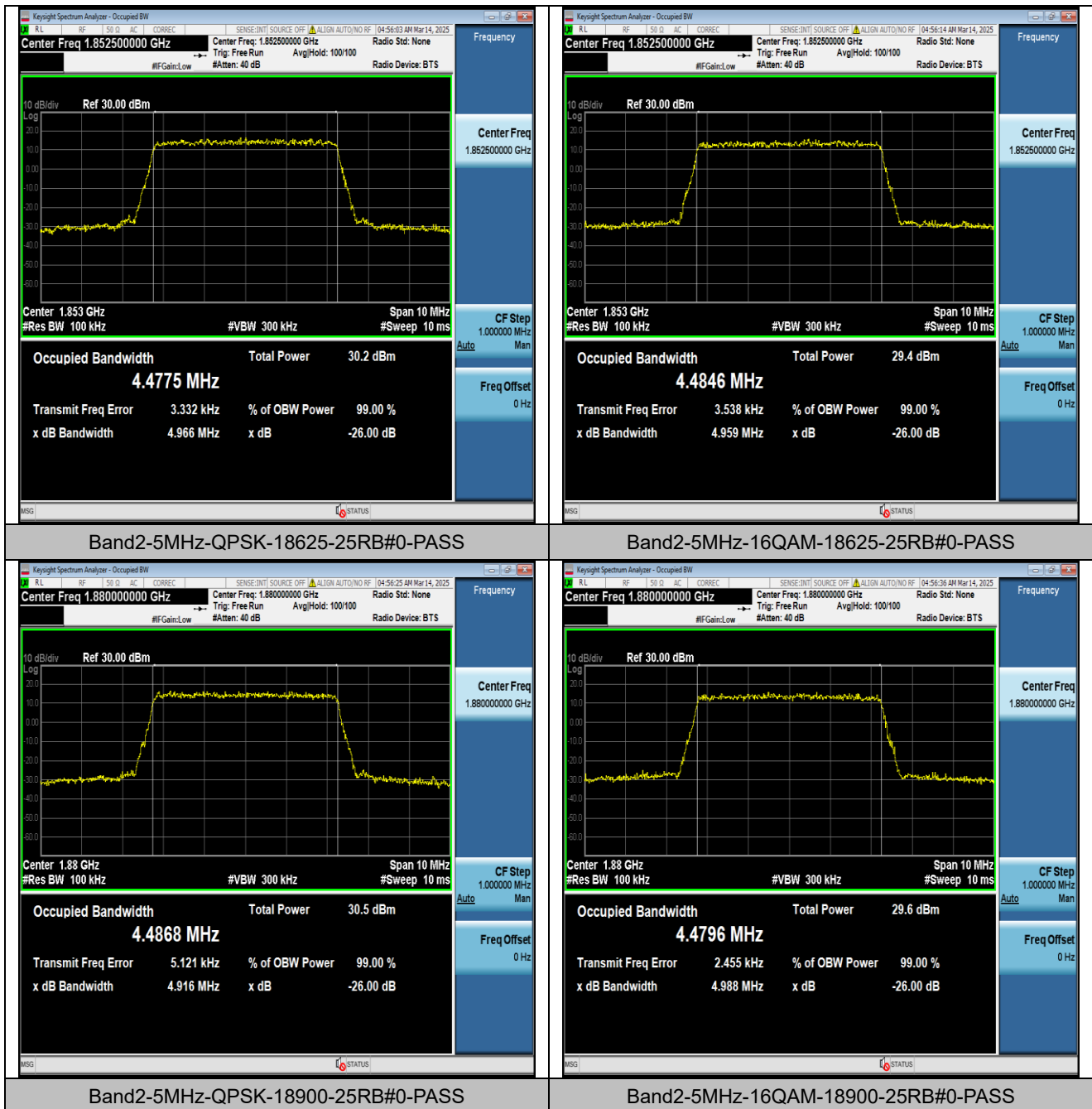
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0868	1.285	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0959	1.314	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0895	1.271	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0911	1.314	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0892	1.284	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0989	1.287	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6933	2.974	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6946	2.960	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6893	2.947	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6846	2.969	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6951	2.952	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6940	2.974	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4775	4.966	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4846	4.959	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4868	4.916	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4796	4.988	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4854	4.925	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4801	5.008	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9670	9.848	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9351	9.764	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9499	9.785	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9272	9.893	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9655	9.851	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9472	9.897	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.432	14.62	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.423	14.71	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.448	14.64	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.432	14.77	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.403	14.58	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.382	14.69	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.948	19.49	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.893	19.28	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.954	19.40	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.916	19.36	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.883	19.26	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.840	19.40	PASS

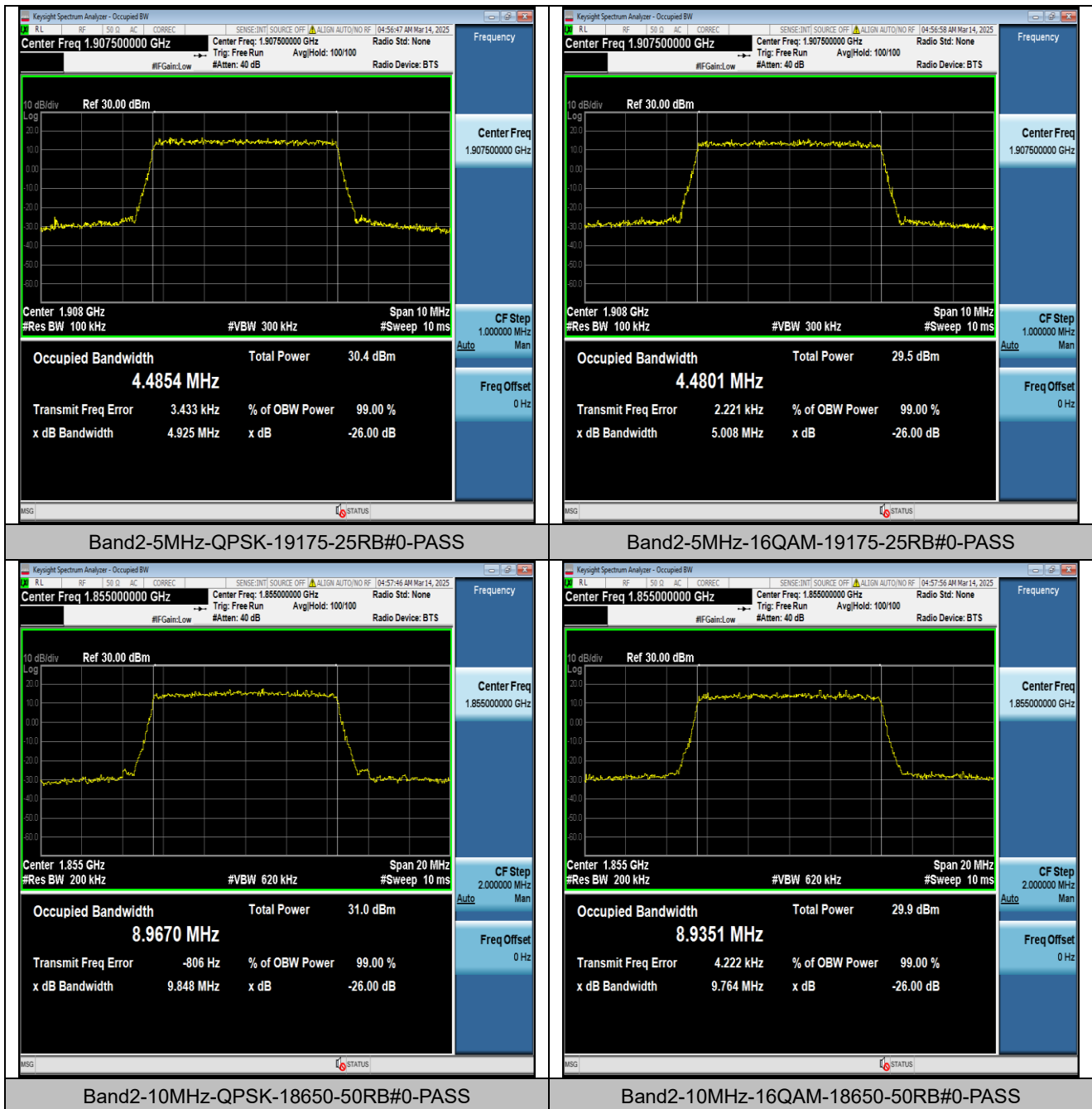
Test Graphs

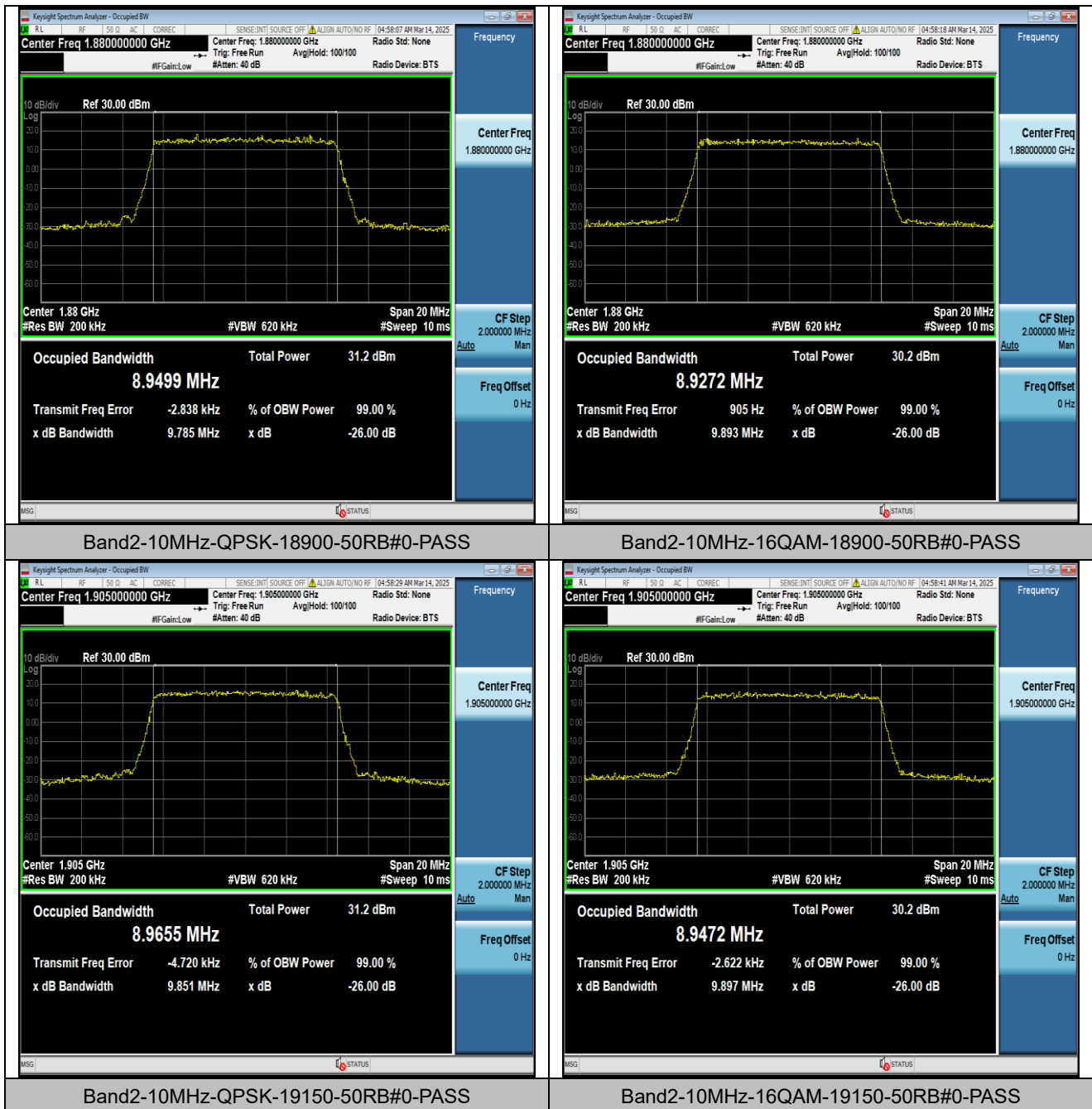


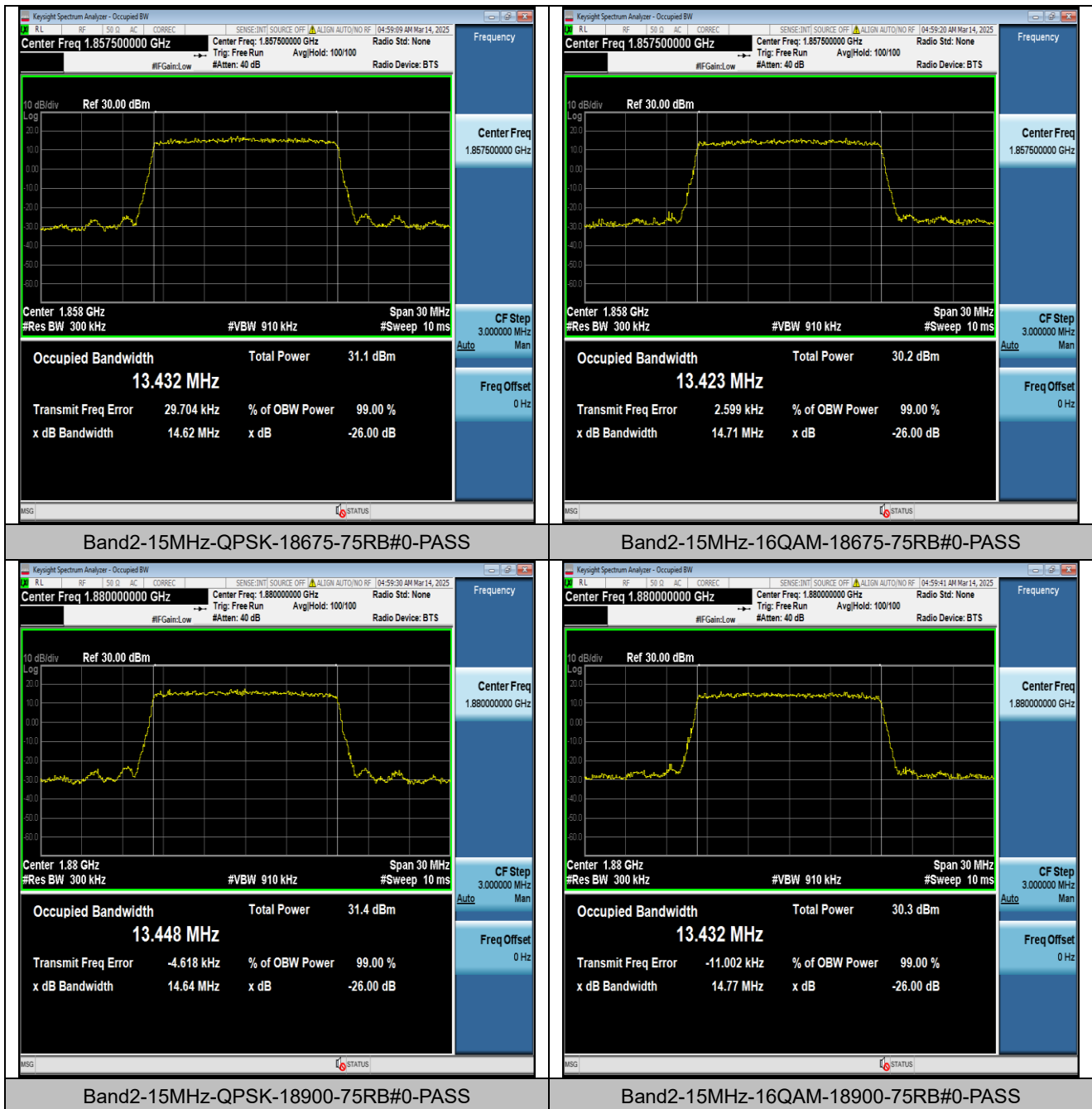


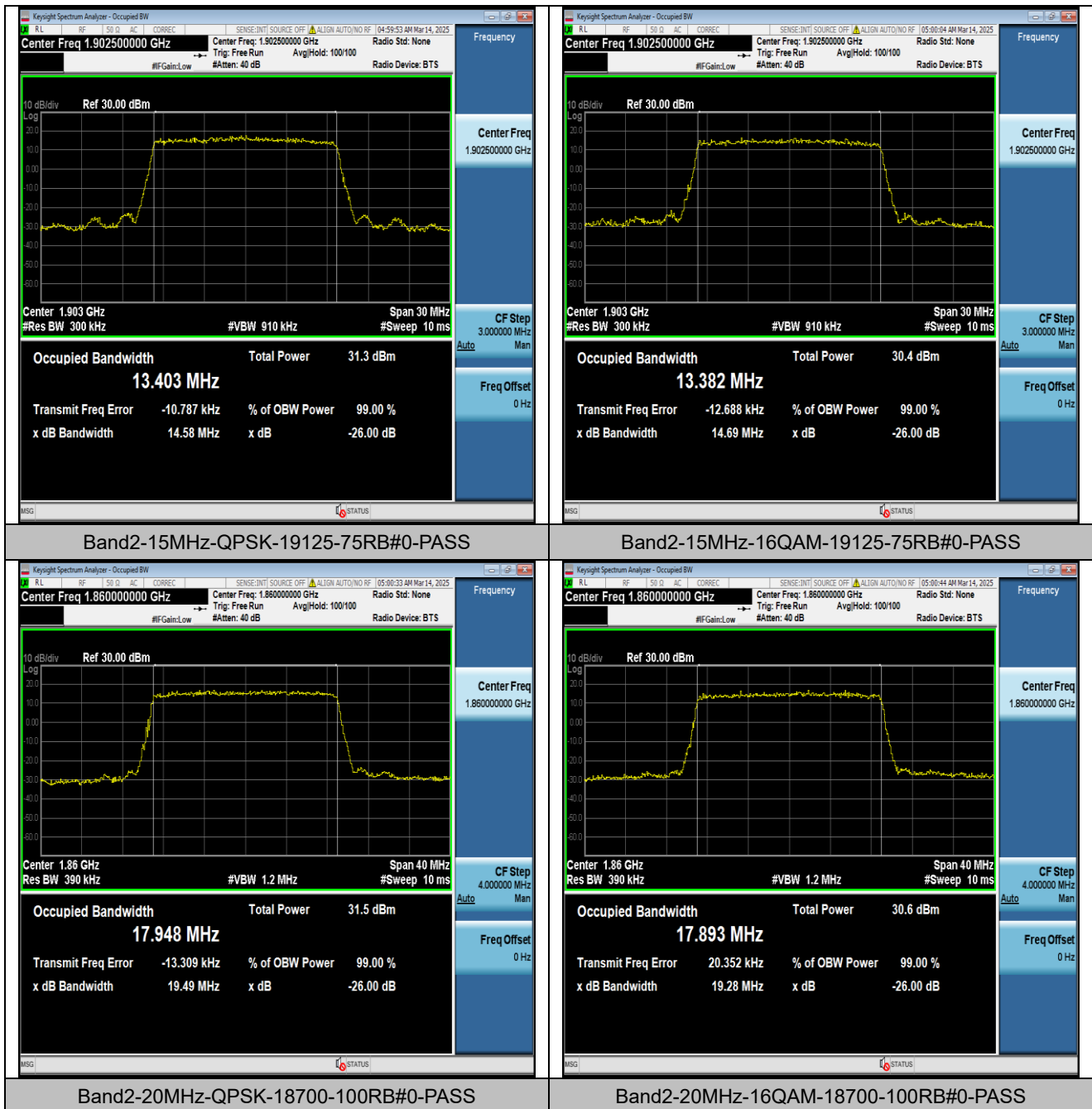


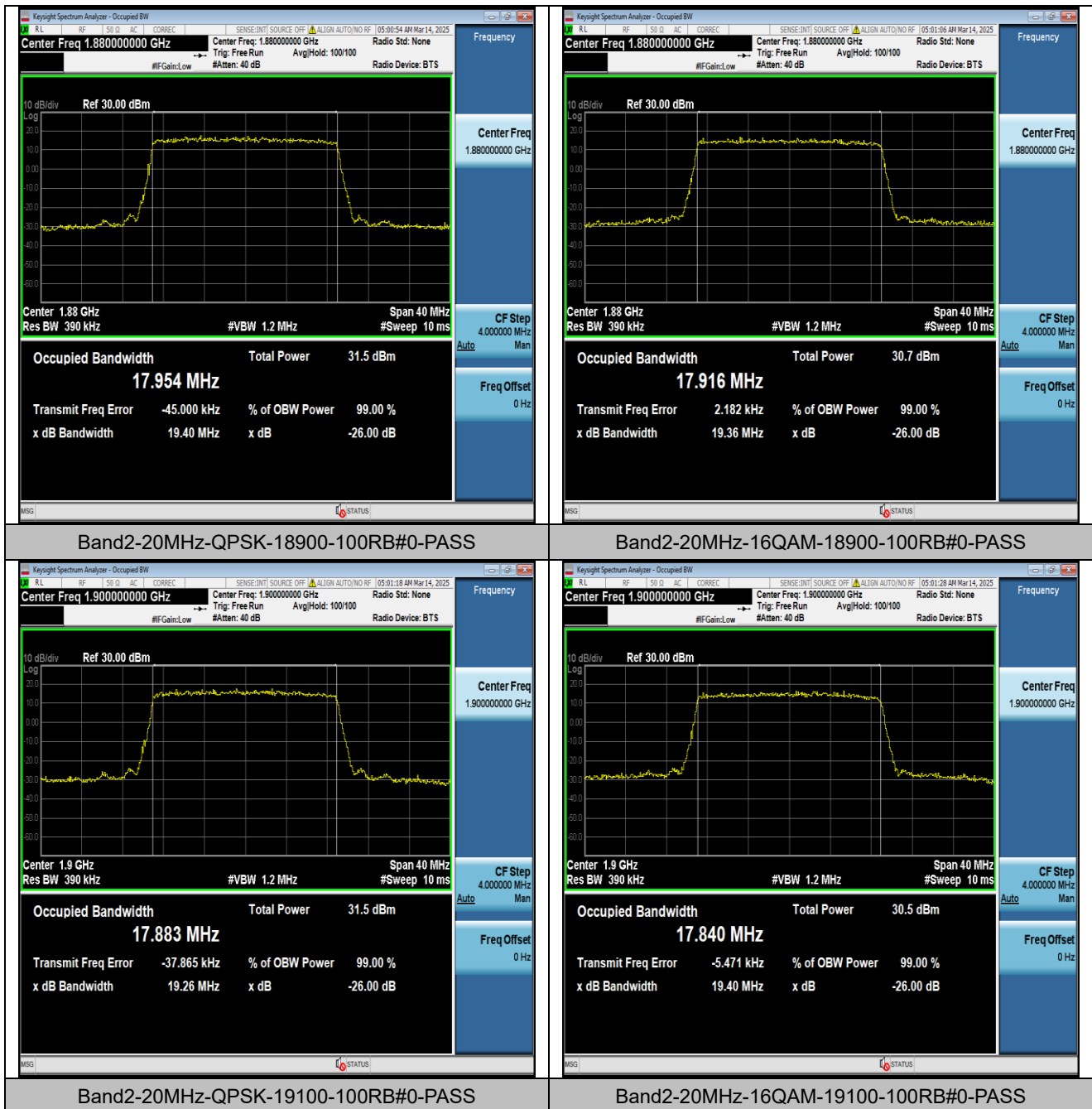






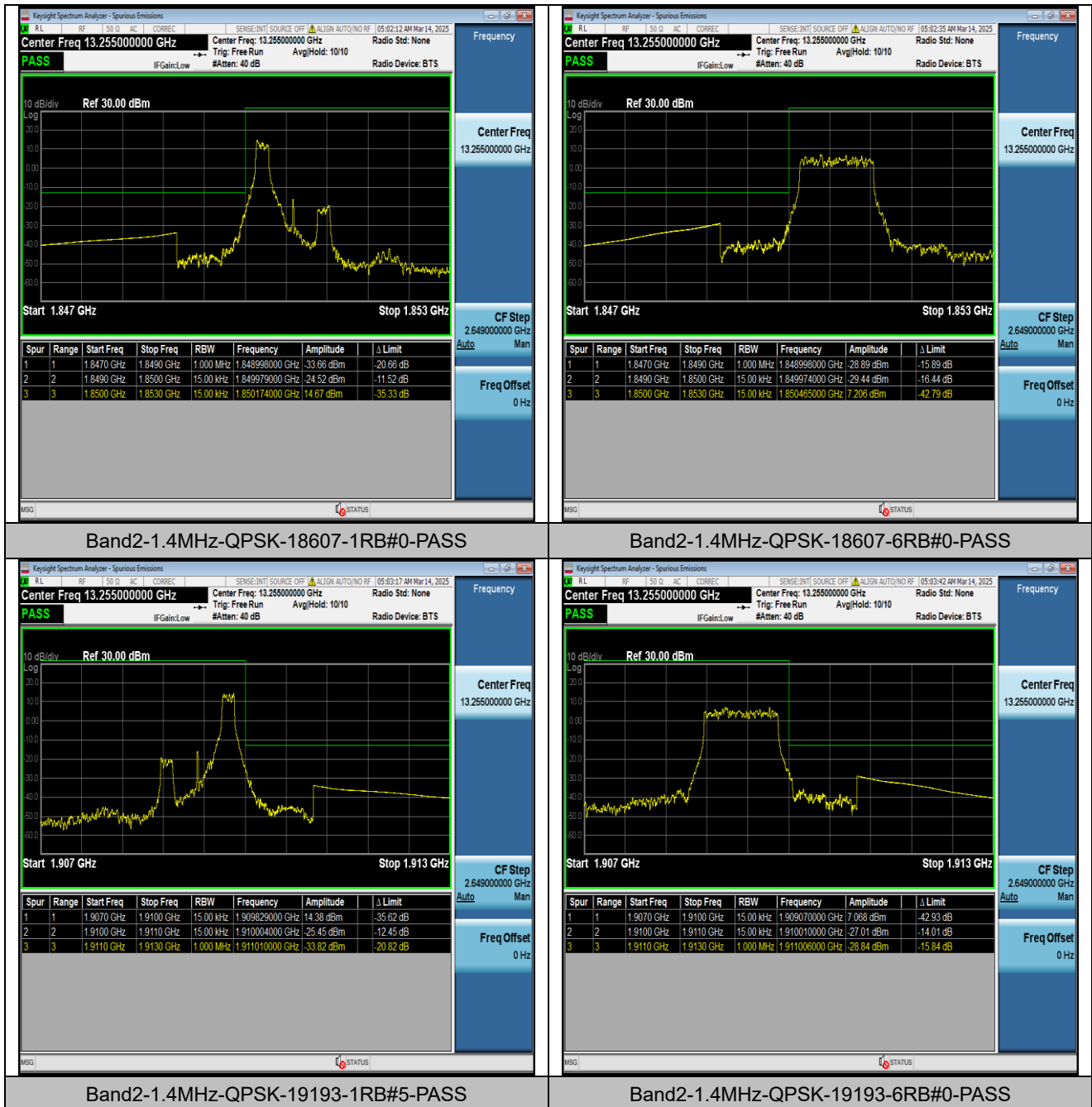


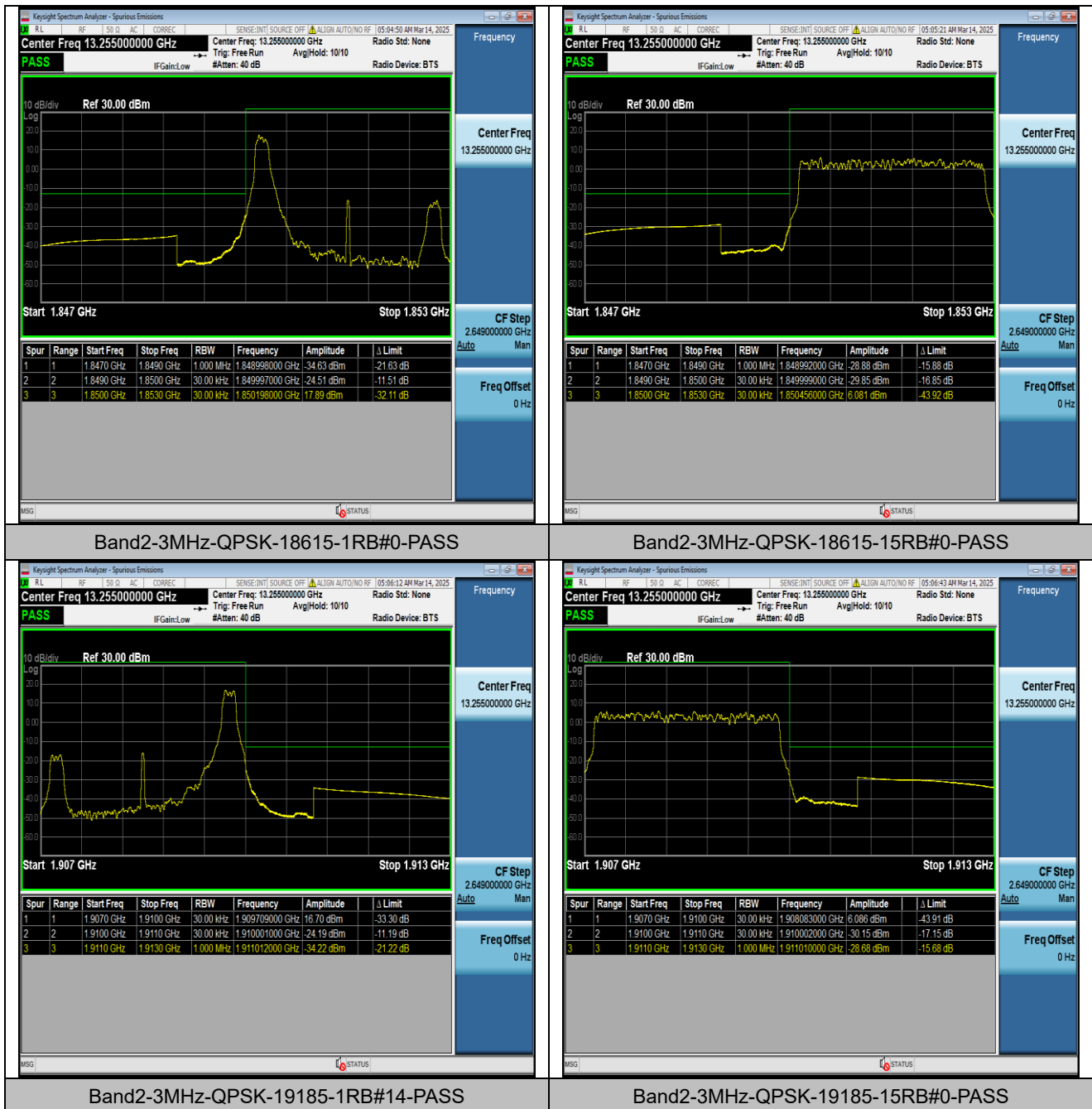


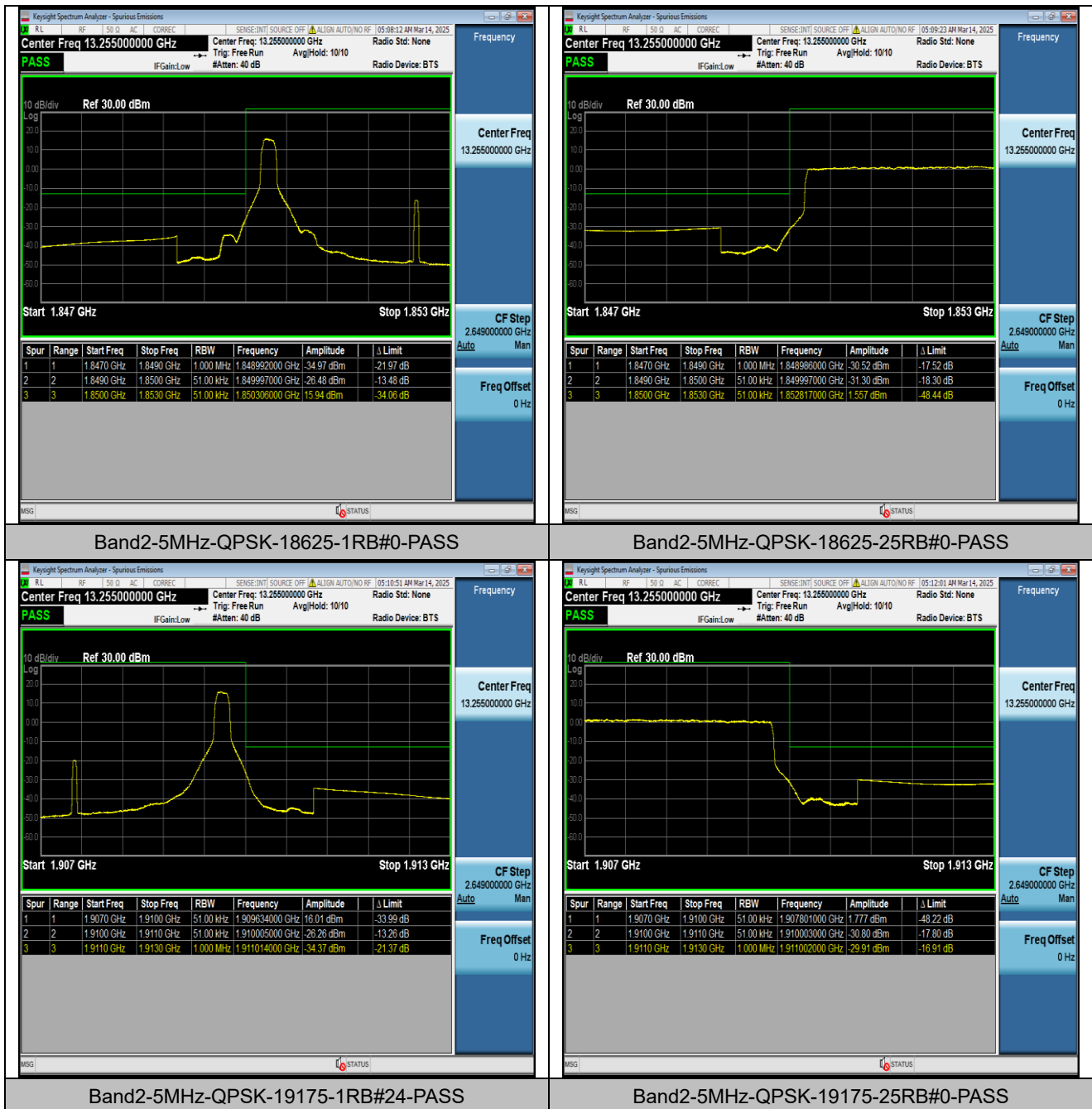


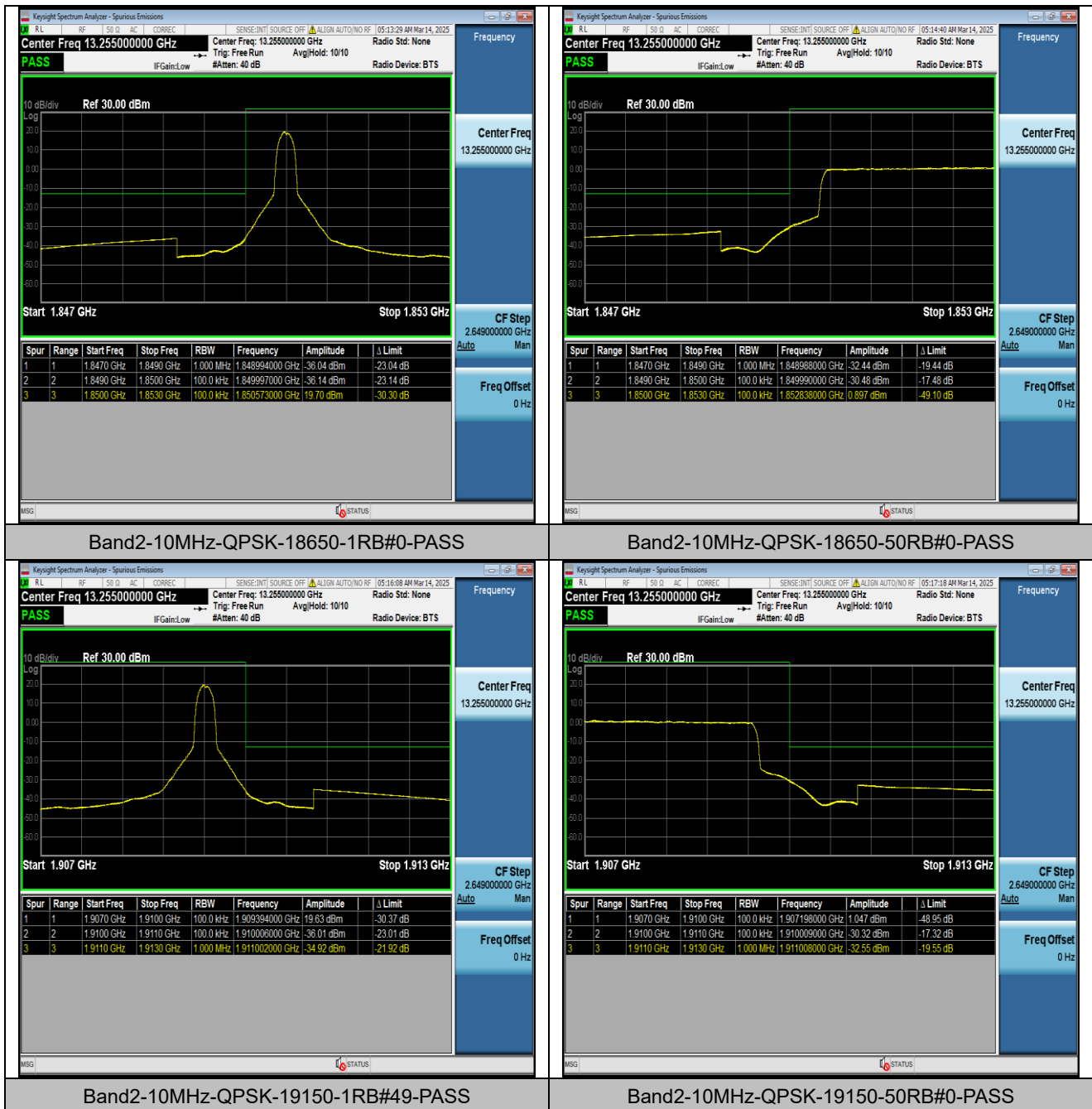
Band Edge

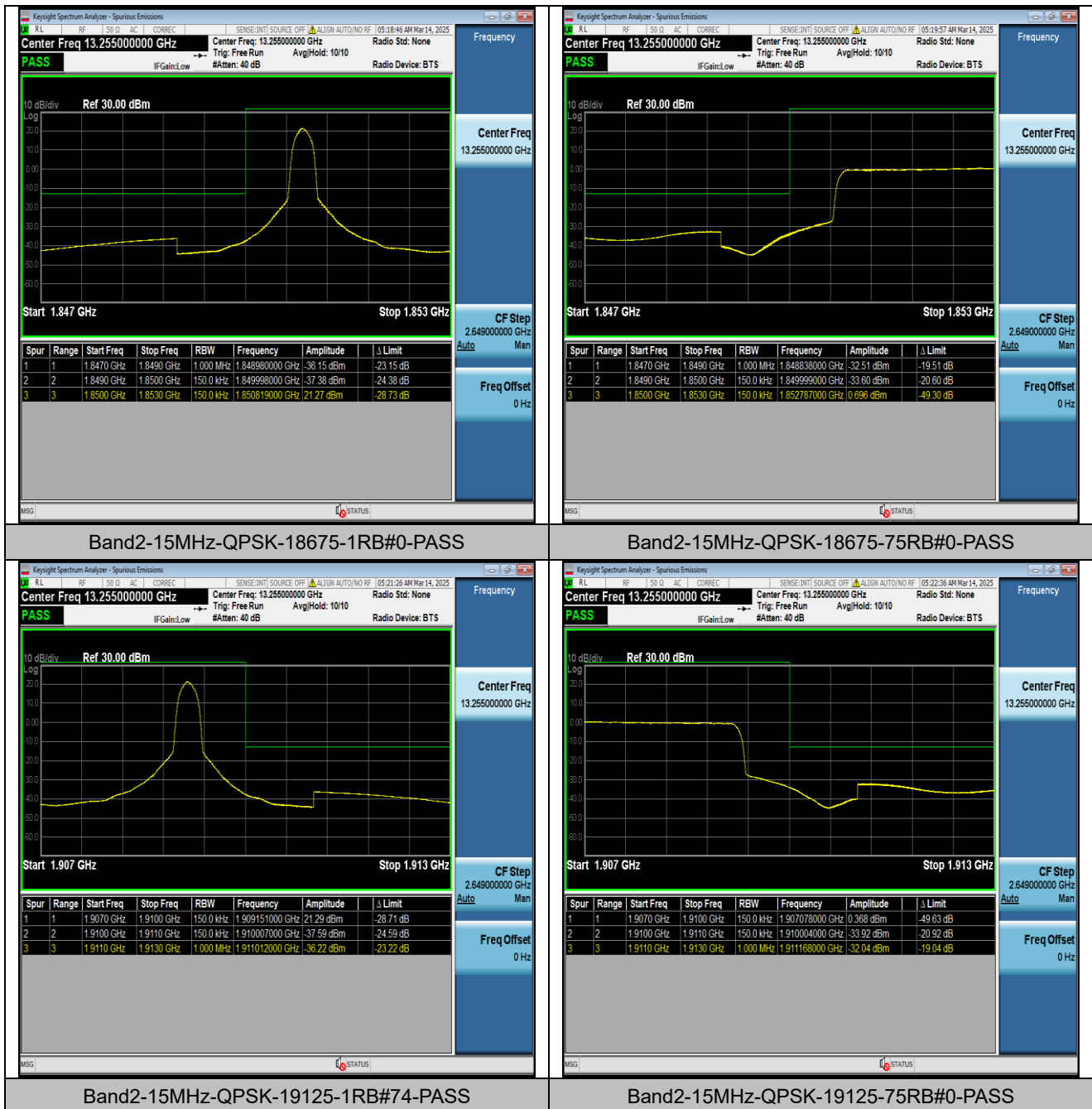
Test Graphs

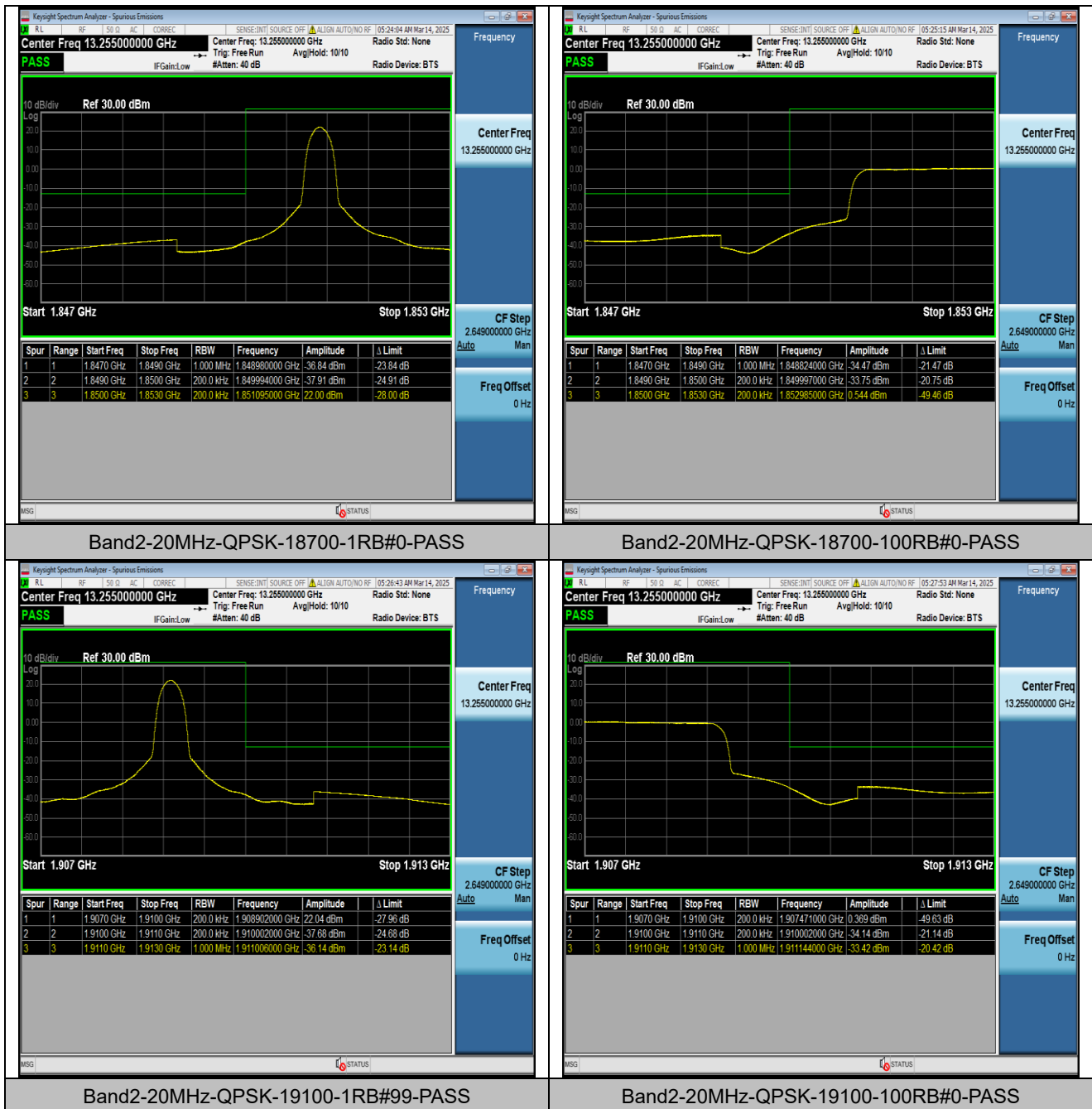






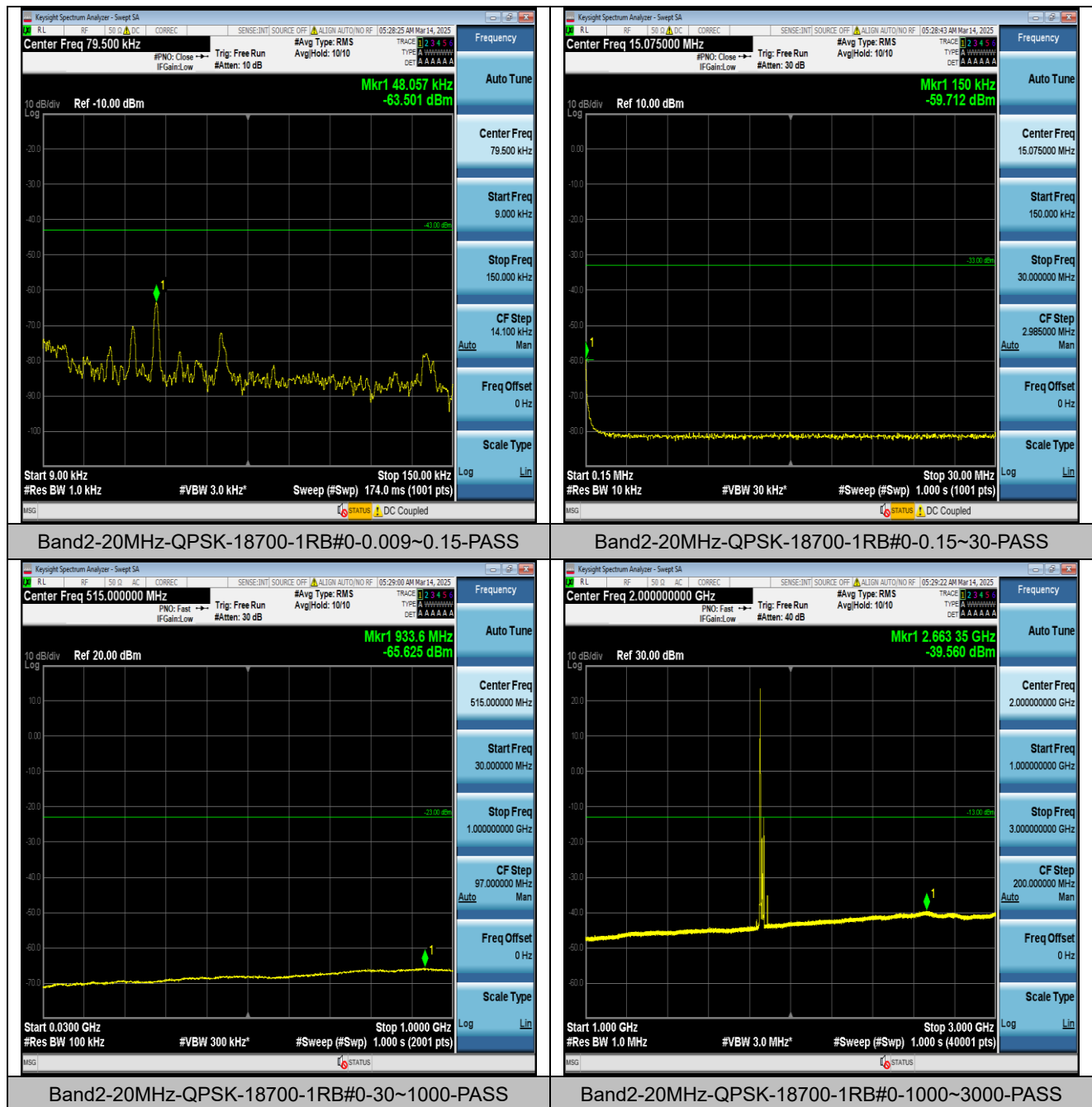


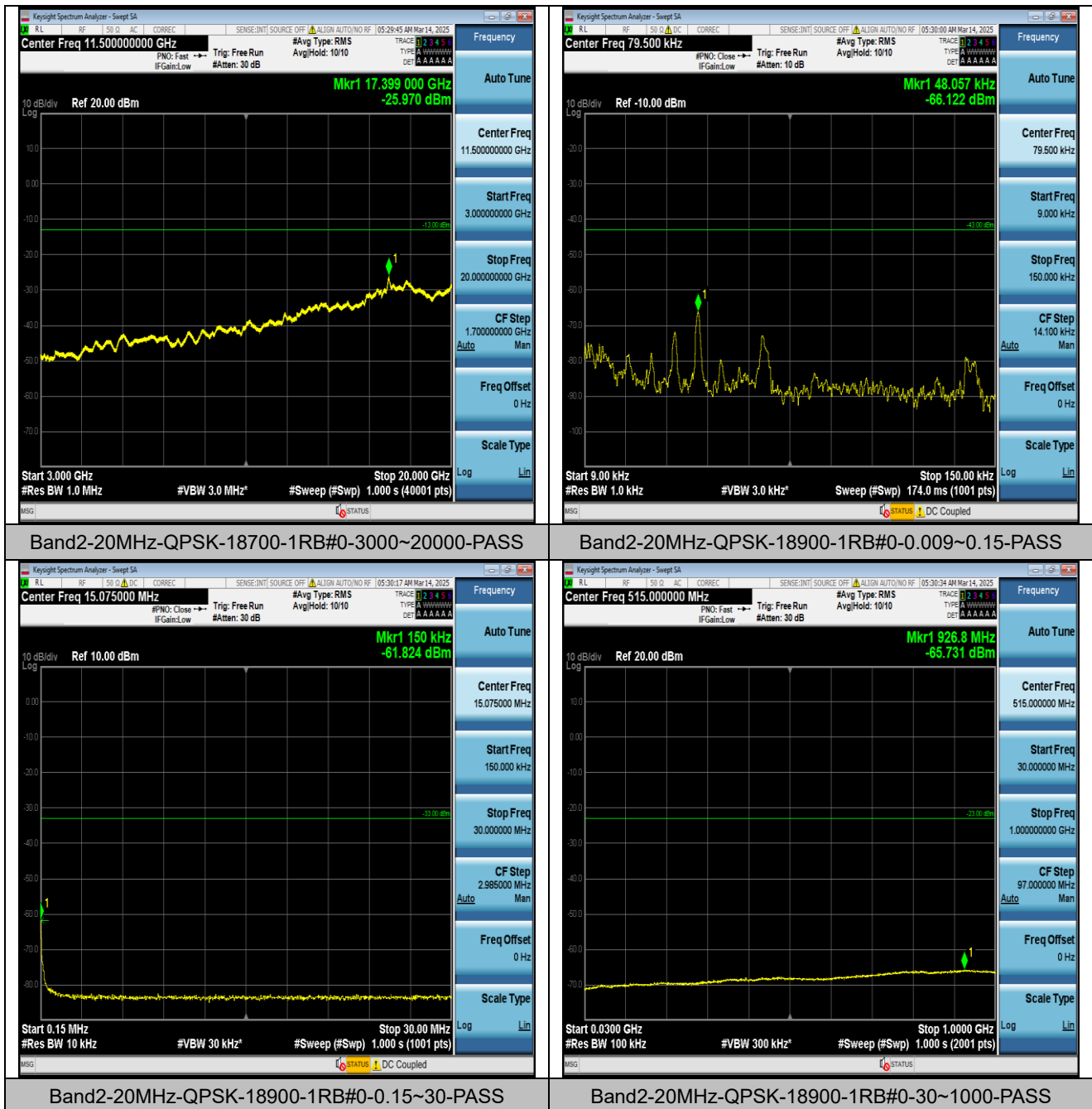


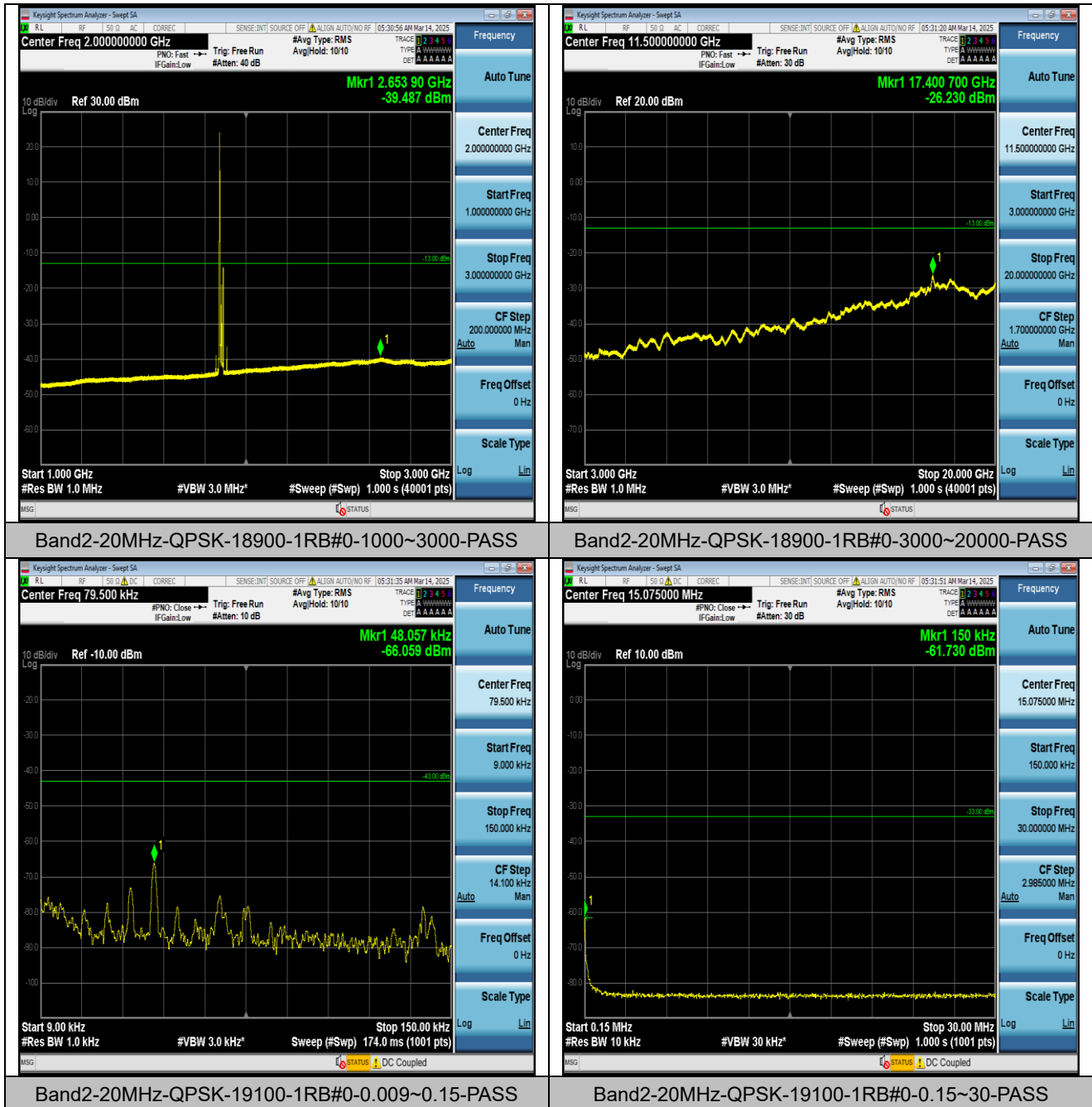


Conducted Spurious Emission

Test Graphs

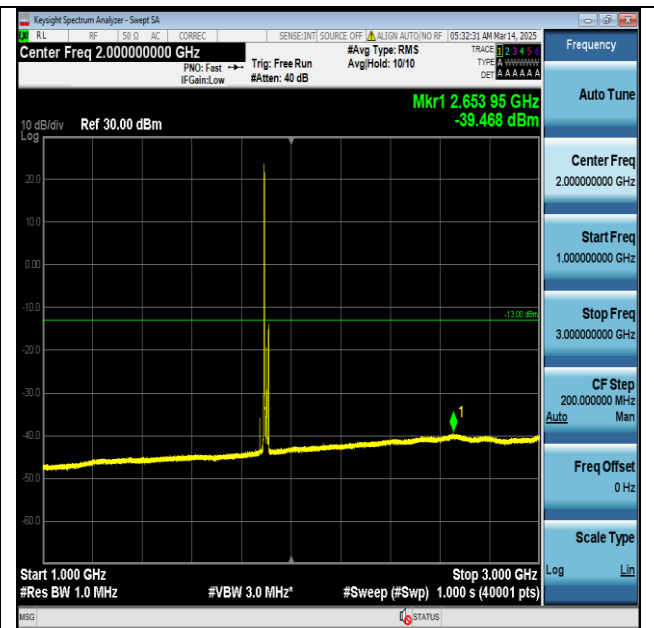








Band2-20MHz-QPSK-19100-1RB#0-30~1000-PASS



Band2-20MHz-QPSK-19100-1RB#0-1000~3000-PASS



Band2-20MHz-QPSK-19100-1RB#0-3000~20000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.80	-0.002021	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-2.60	-0.001383	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-2.80	-0.001489	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-3.40	-0.001809	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-4.00	-0.002128	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-0.70	-0.000372	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-2.30	-0.001223	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.70	-0.001436	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-2.40	-0.001277	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-1.40	-0.000745	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-2.70	-0.001436	PASS

~The End~