

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	23.57	25.37	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.92	25.72	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.79	25.59	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.9	24.7	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.56	24.36	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.47	24.27	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.84	24.64	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.89	23.69	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.73	25.53	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	24.01	25.81	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.59	25.39	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.94	24.74	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.93	24.73	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.79	24.59	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.85	24.65	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.81	23.61	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.64	25.44	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.83	25.63	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.62	25.42	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.88	24.68	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.87	24.67	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.46	24.26	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.75	24.55	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.91	23.71	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	24	25.8	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	24.01	25.81	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.72	25.52	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.94	24.74	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.41	24.21	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.81	24.61	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.56	24.36	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.77	23.57	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.48	25.28	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.5	25.3	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.8	25.6	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.95	24.75	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.72	24.52	33.00	PASS

Band2	3MHz	16QAM	18900	1RB#8	22.45	24.25	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.62	24.42	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.9	23.7	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.61	25.41	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.65	25.45	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.76	25.56	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.87	24.67	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.95	24.75	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.83	24.63	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.81	24.61	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.82	23.62	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.67	25.47	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.84	25.64	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.5	25.3	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.8	24.6	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.41	24.21	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.98	24.78	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.81	24.61	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.89	23.69	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.66	25.46	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.71	25.51	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.76	25.56	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.94	24.74	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.94	24.74	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.59	24.39	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.57	24.37	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.01	23.81	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.71	25.51	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.71	25.51	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.65	25.45	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.76	24.56	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.86	24.66	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.57	24.37	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.69	24.49	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.67	23.47	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.78	25.58	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.67	25.47	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.67	25.47	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.9	24.7	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.8	24.6	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.69	24.49	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.76	24.56	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.95	23.75	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.85	25.65	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.12	25.92	33.00	PASS

Band2	10MHz	QPSK	18900	1RB#49	23.87	25.67	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.93	24.73	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.86	24.66	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.03	24.83	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.24	25.04	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.91	23.71	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.71	25.51	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.85	25.65	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.67	25.47	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.93	24.73	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.45	24.25	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.82	24.62	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.9	24.7	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.94	23.74	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.65	25.45	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.74	25.54	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.55	25.35	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.87	24.67	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.4	24.2	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.74	24.54	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.88	24.68	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.92	23.72	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.75	25.55	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.86	25.66	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.58	25.38	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.85	24.65	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.75	24.55	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.84	24.64	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.19	23.99	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.93	23.73	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.81	25.61	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.67	25.47	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.57	25.37	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.89	24.69	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.87	24.67	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.74	24.54	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.65	24.45	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.97	23.77	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.5	25.3	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.79	25.59	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.78	25.58	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.88	24.68	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.73	24.53	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.13	24.93	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.77	24.57	33.00	PASS

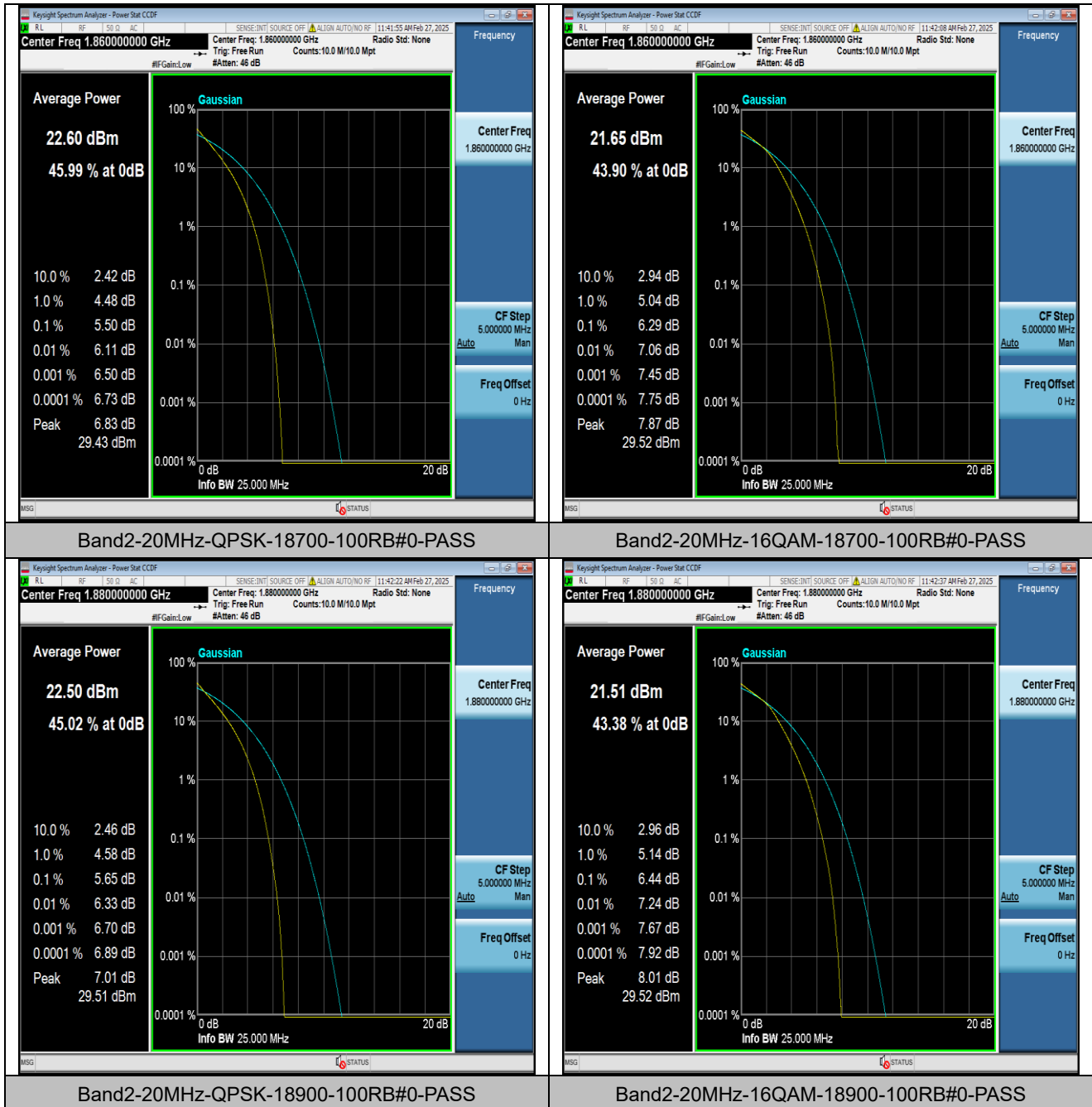
Band2	20MHz	16QAM	18700	100RB#0	21.72	23.52	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.76	25.56	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.86	25.66	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.53	25.33	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.8	24.6	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	23.17	24.97	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.97	24.77	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.43	24.23	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.87	23.67	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.58	25.38	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.77	25.57	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.63	25.43	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.82	24.62	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.25	24.05	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.11	24.91	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.55	24.35	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.8	23.6	33.00	PASS

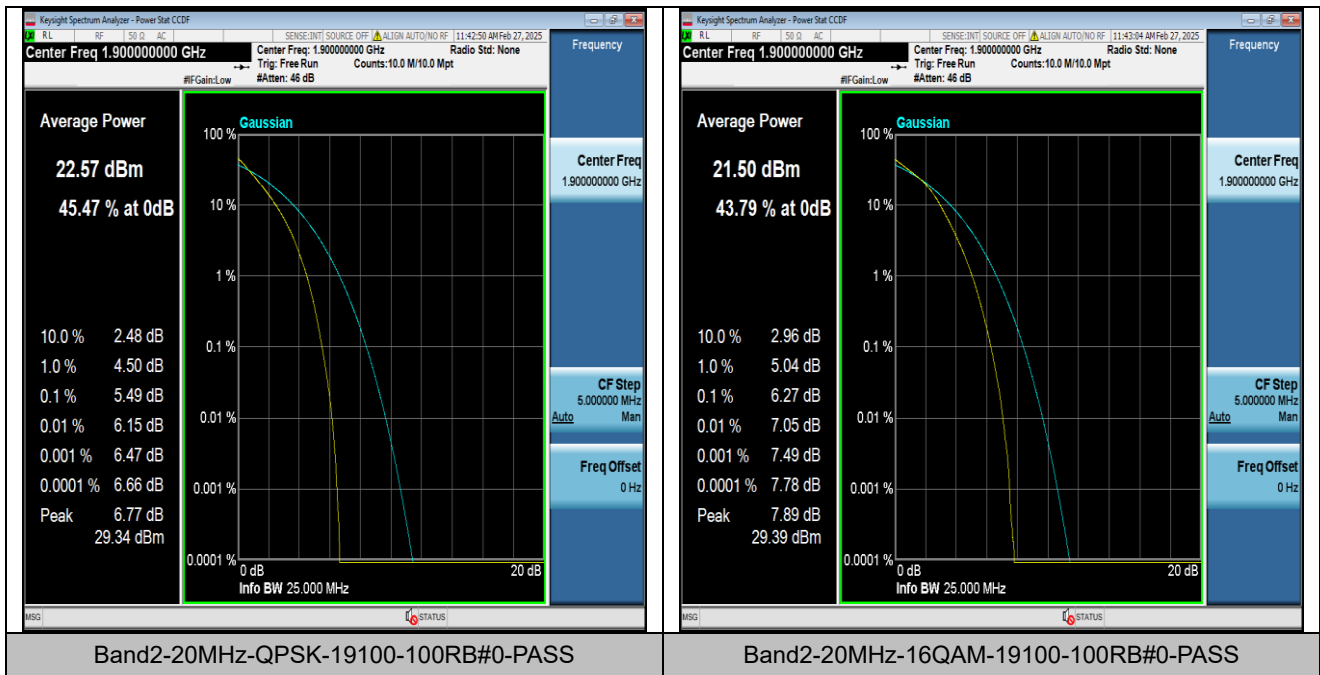
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.50	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.29	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.65	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.44	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.49	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.27	13	PASS

Test Graphs



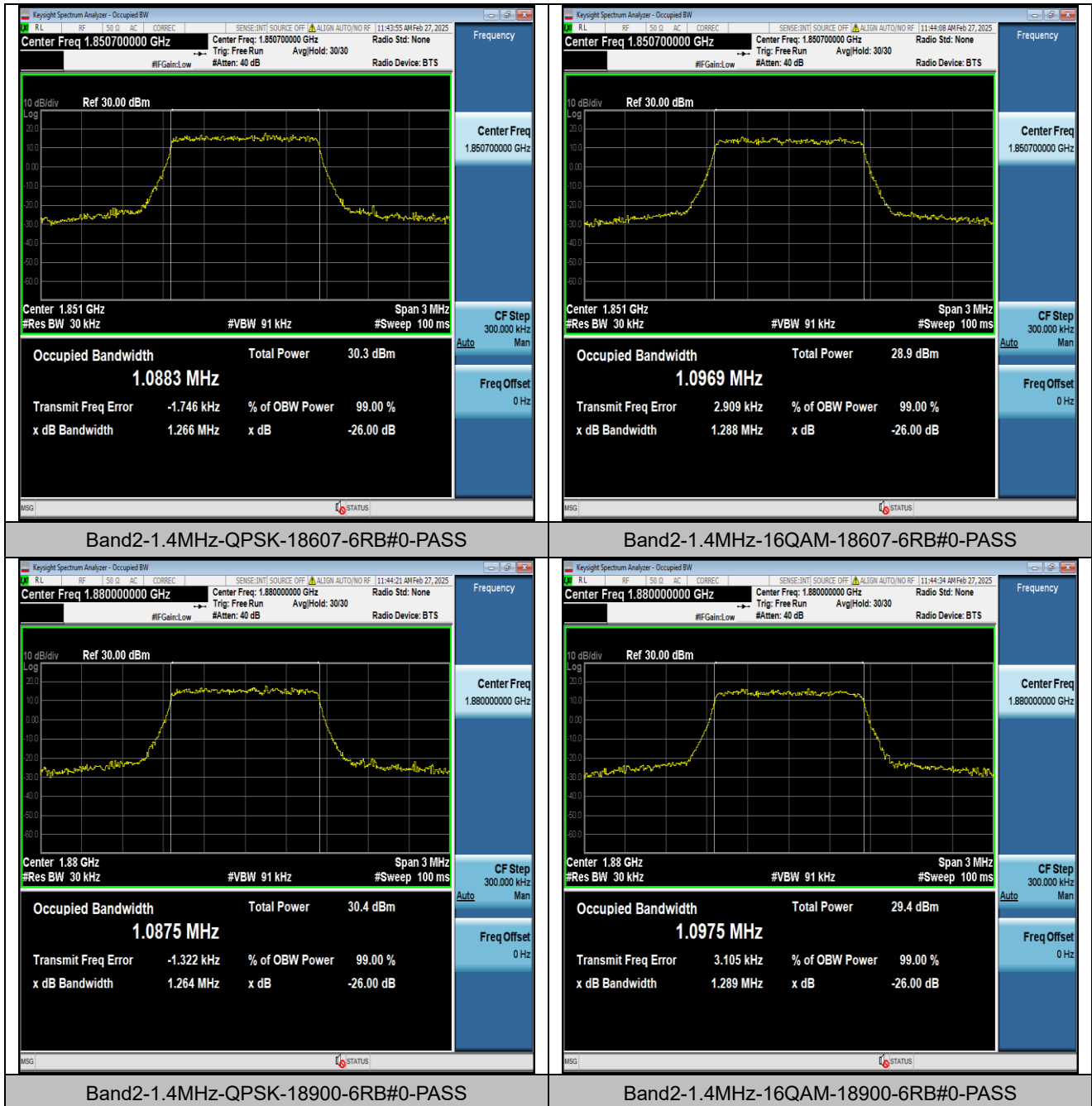


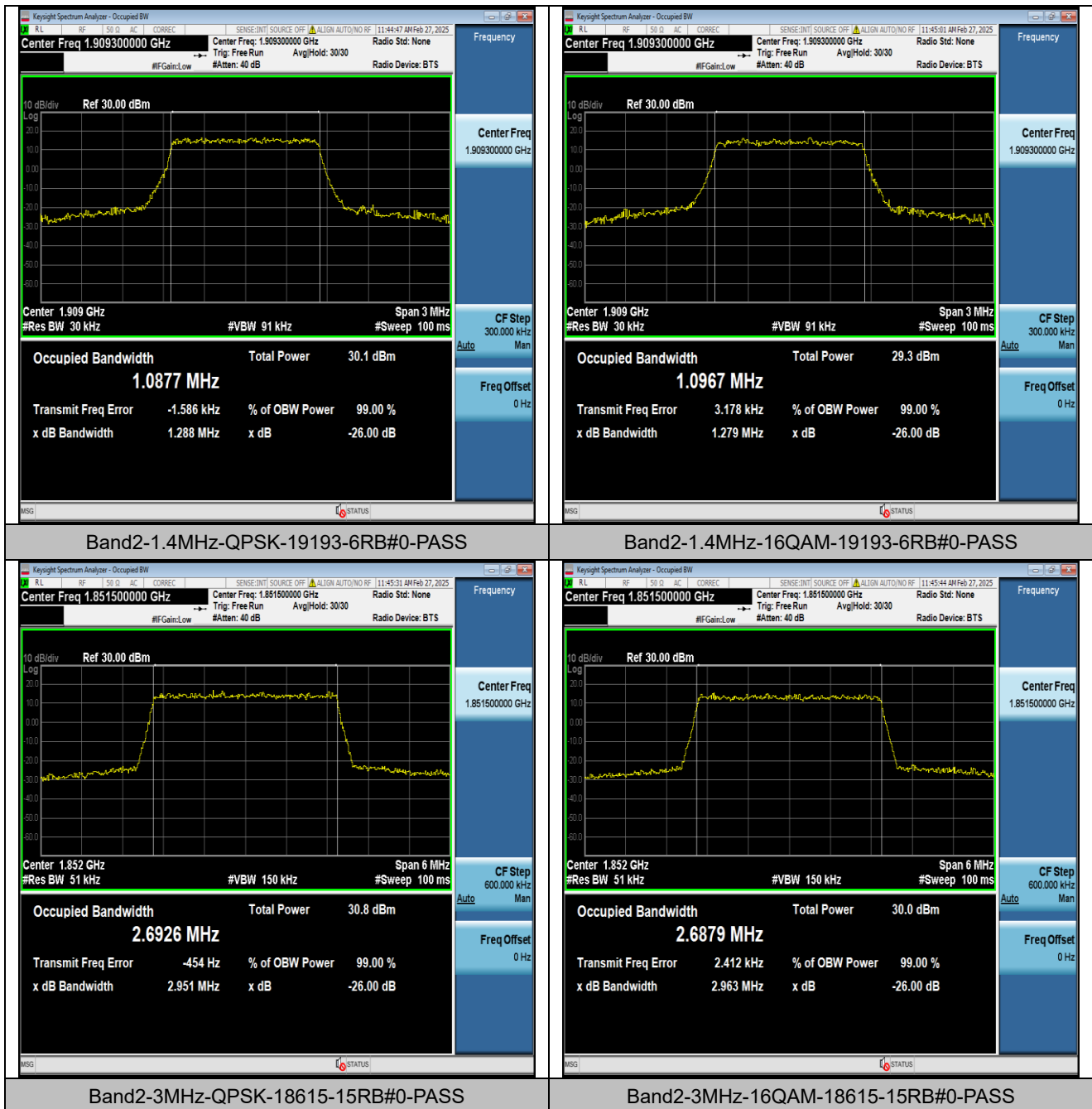
26dB Bandwidth and Occupied Bandwidth

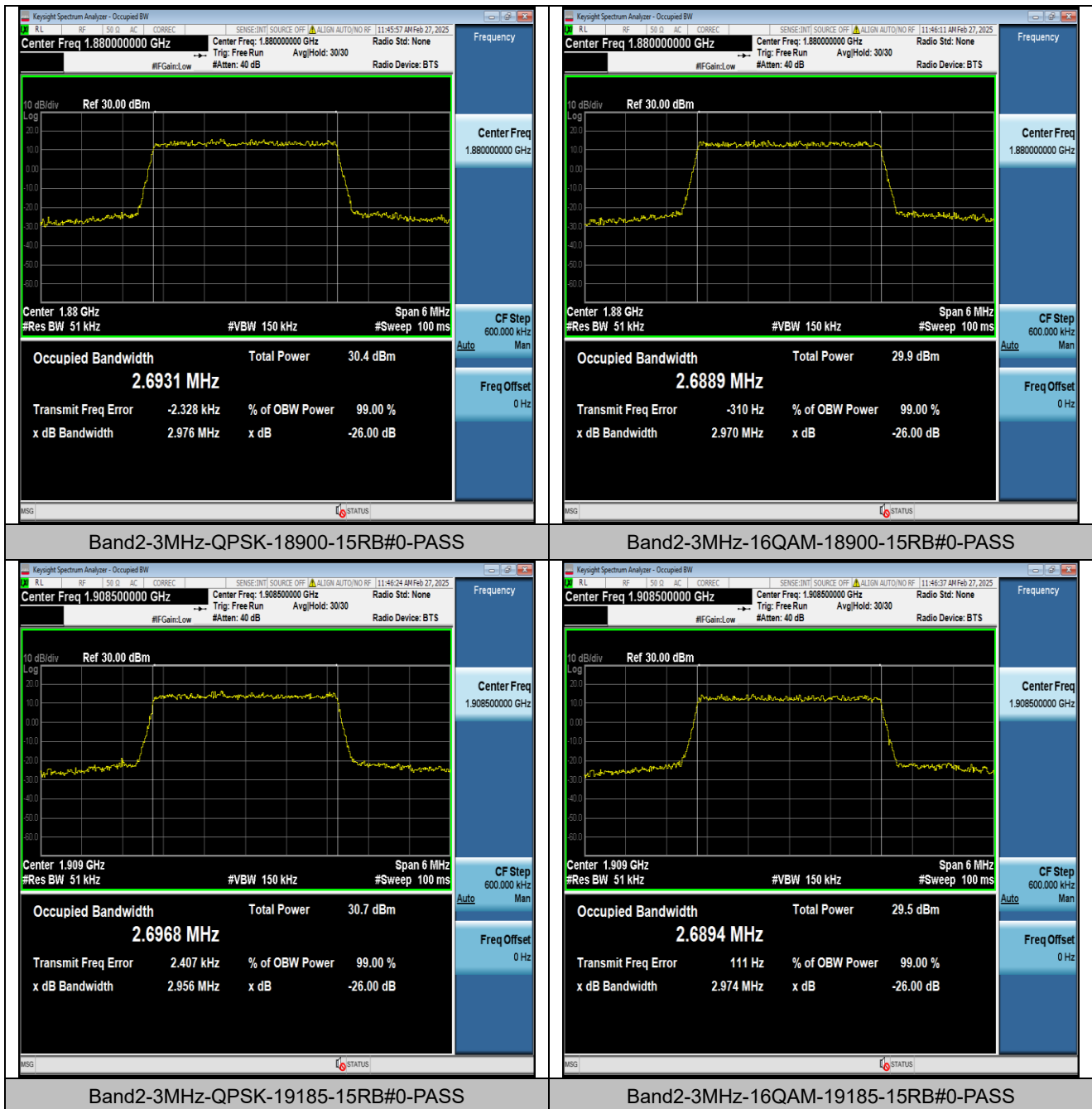
Test Result

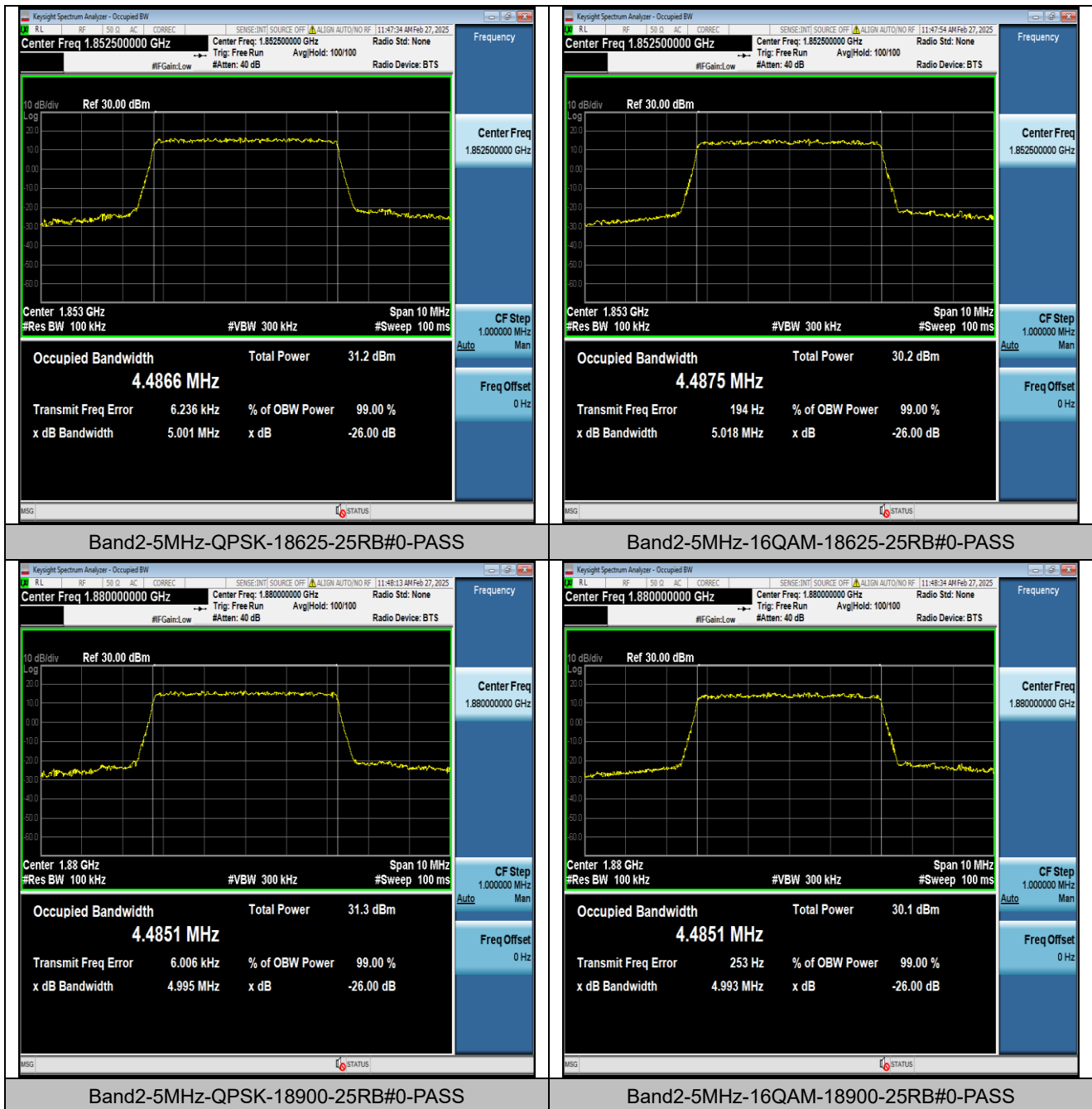
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0883	1.266	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0969	1.288	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0875	1.264	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0975	1.289	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0877	1.288	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0967	1.279	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6926	2.951	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6879	2.963	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6931	2.976	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6889	2.970	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6968	2.956	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6894	2.974	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4866	5.001	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4875	5.018	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4851	4.995	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4851	4.993	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4866	4.994	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4868	5.023	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9734	9.856	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9483	9.798	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9633	9.842	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9435	9.768	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9986	9.806	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9562	9.823	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.436	14.68	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.420	14.66	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.456	14.66	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.420	14.67	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.445	14.65	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.434	14.69	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.919	19.37	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.873	19.44	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.991	19.58	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.926	19.51	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.965	19.60	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.893	19.43	PASS

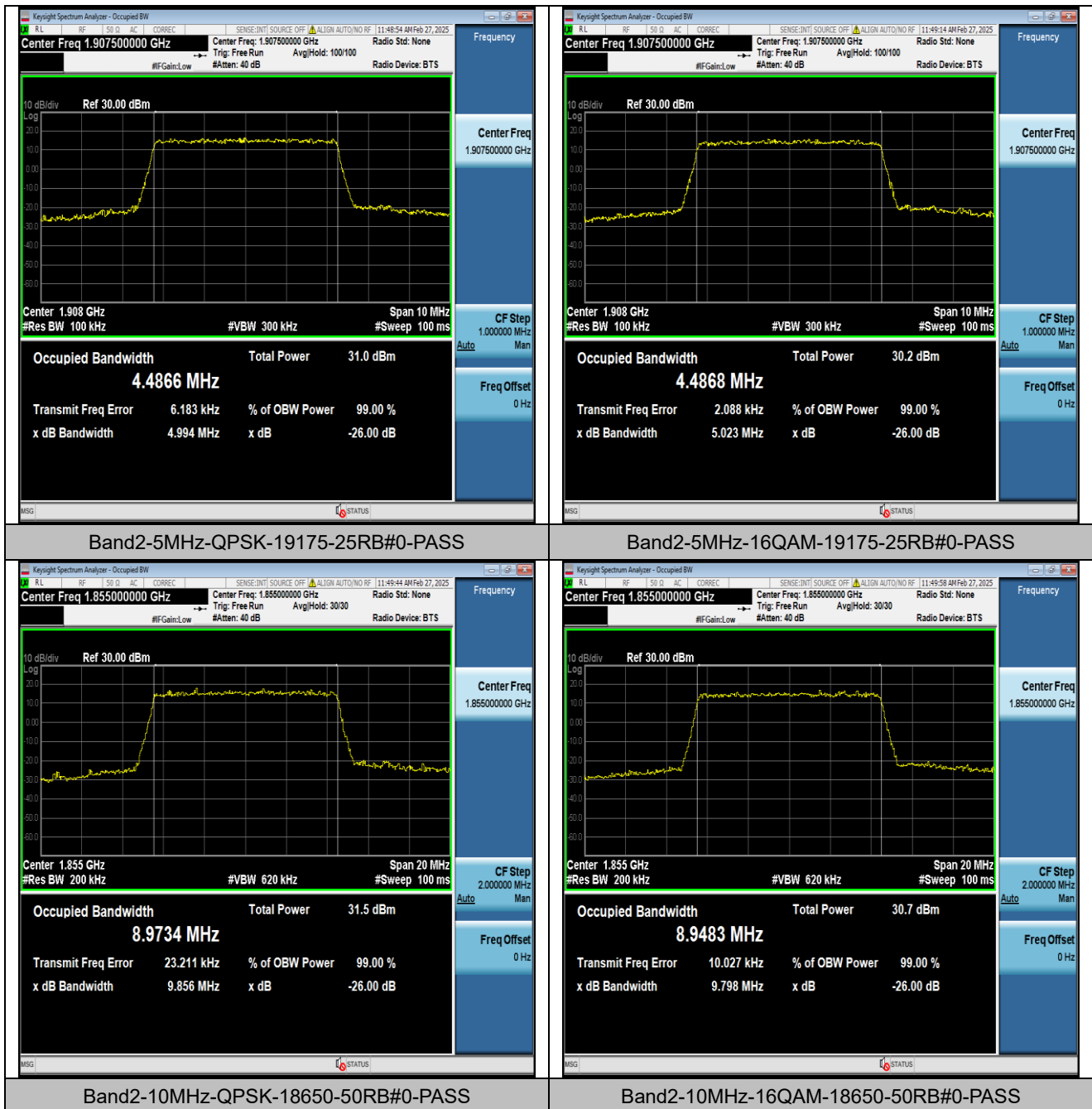
Test Graphs

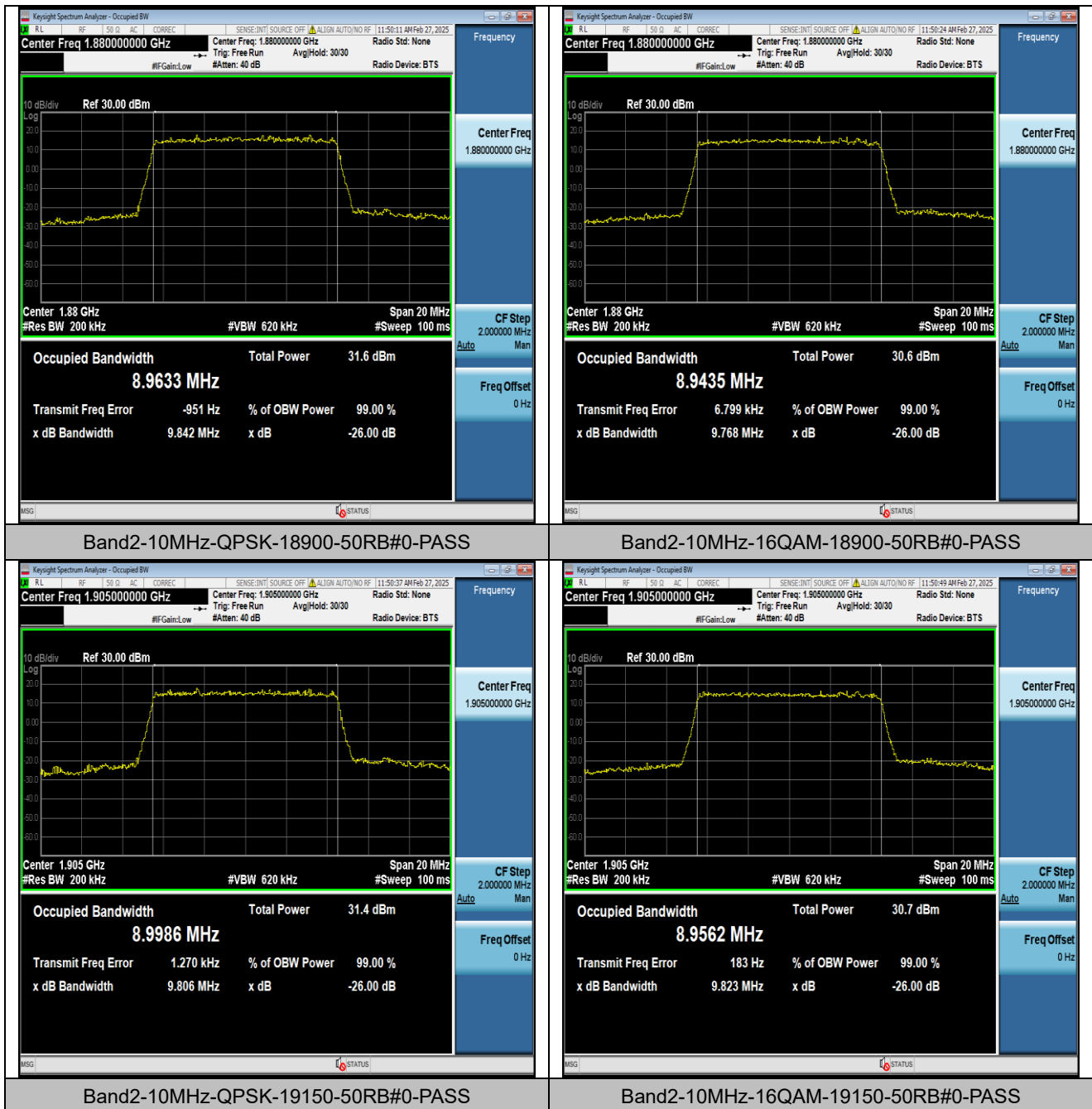


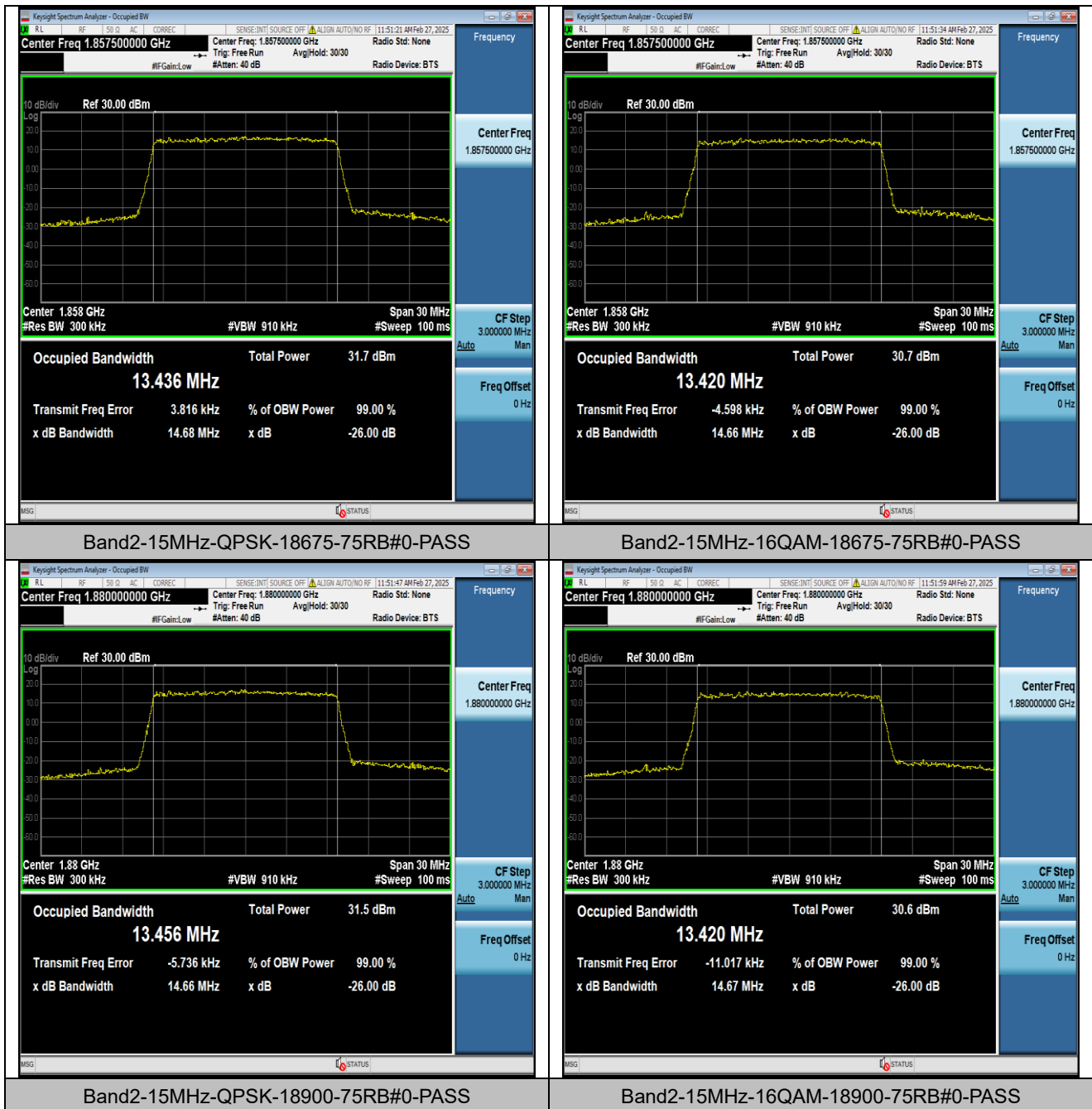


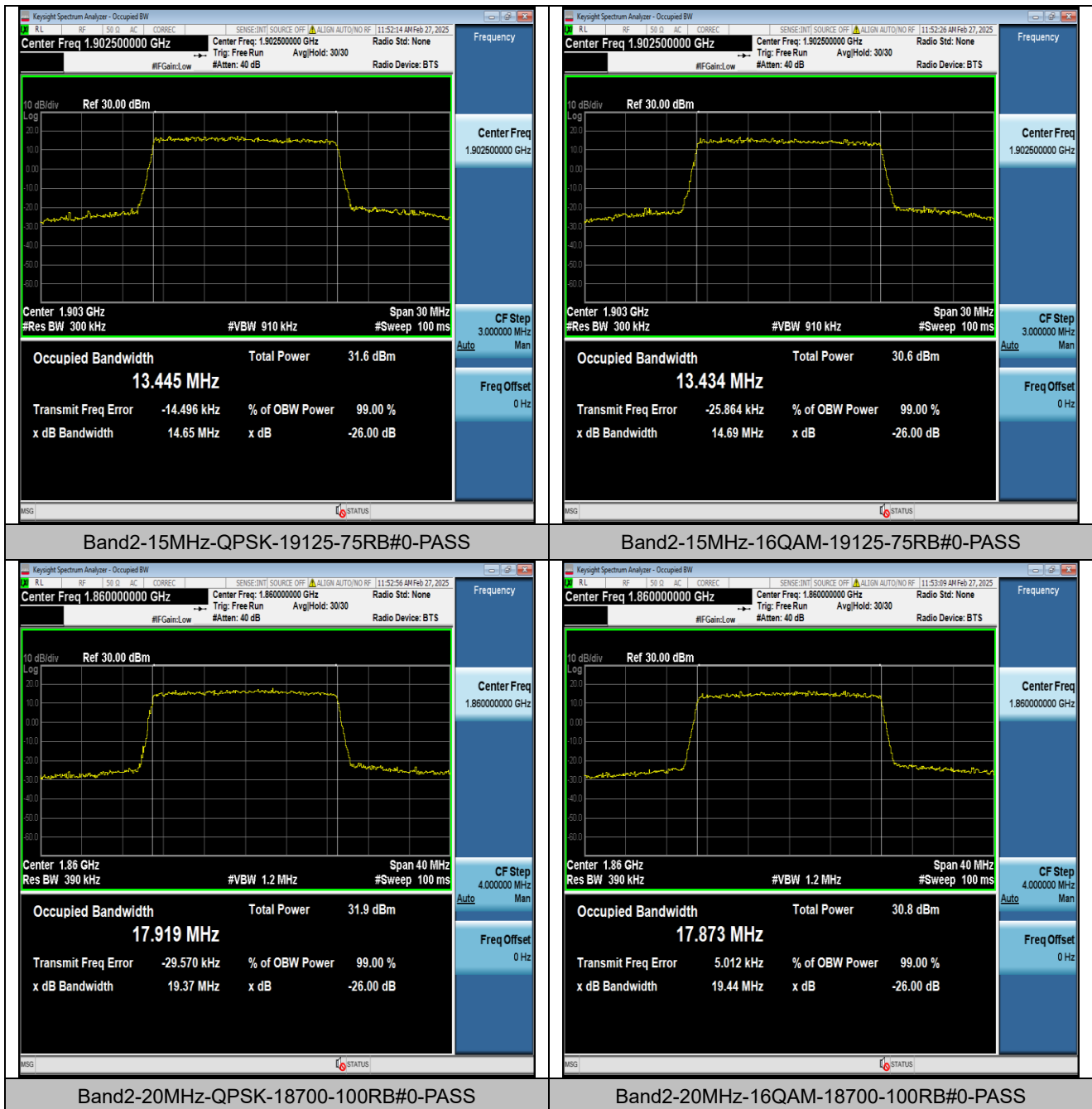


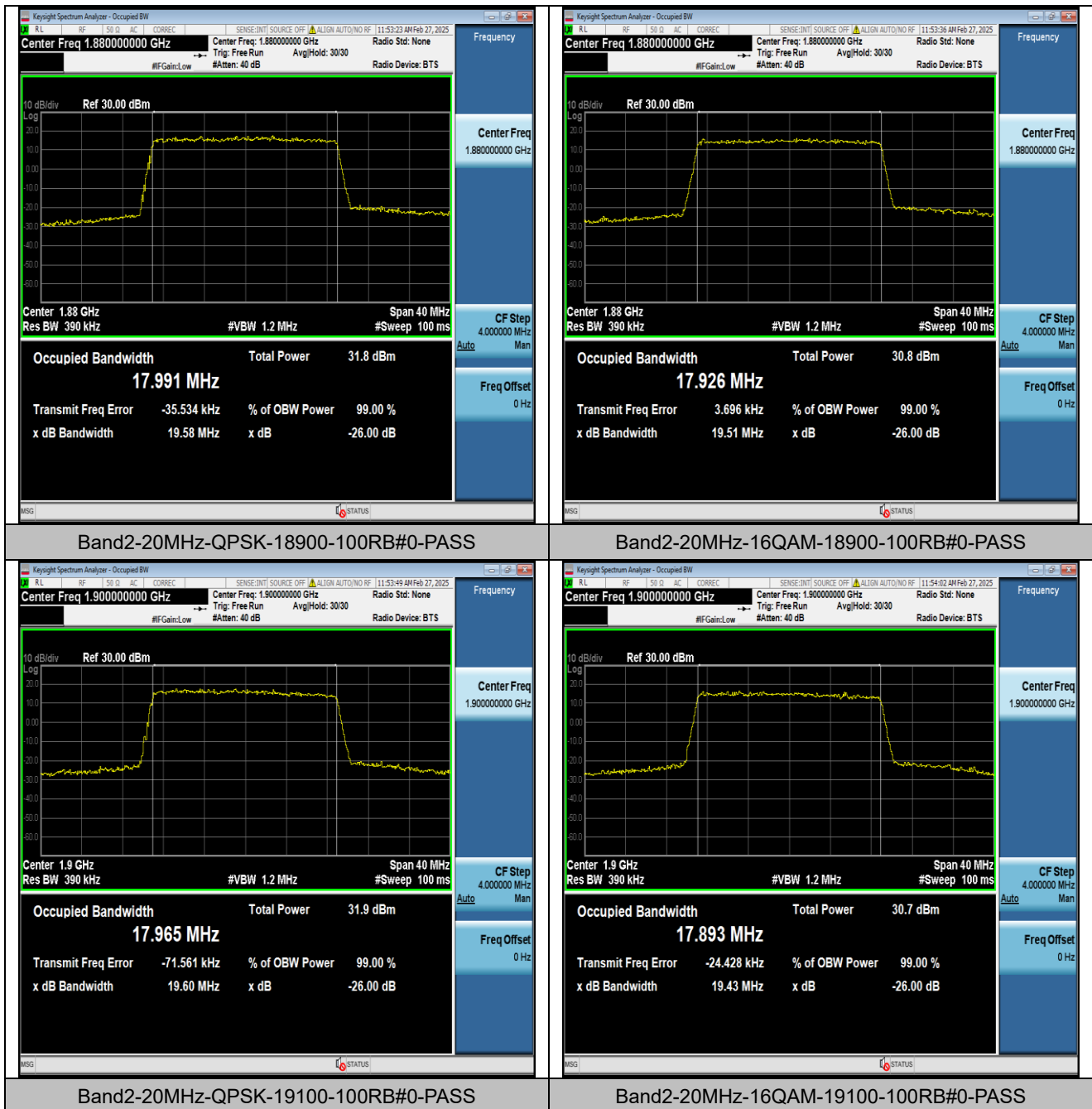






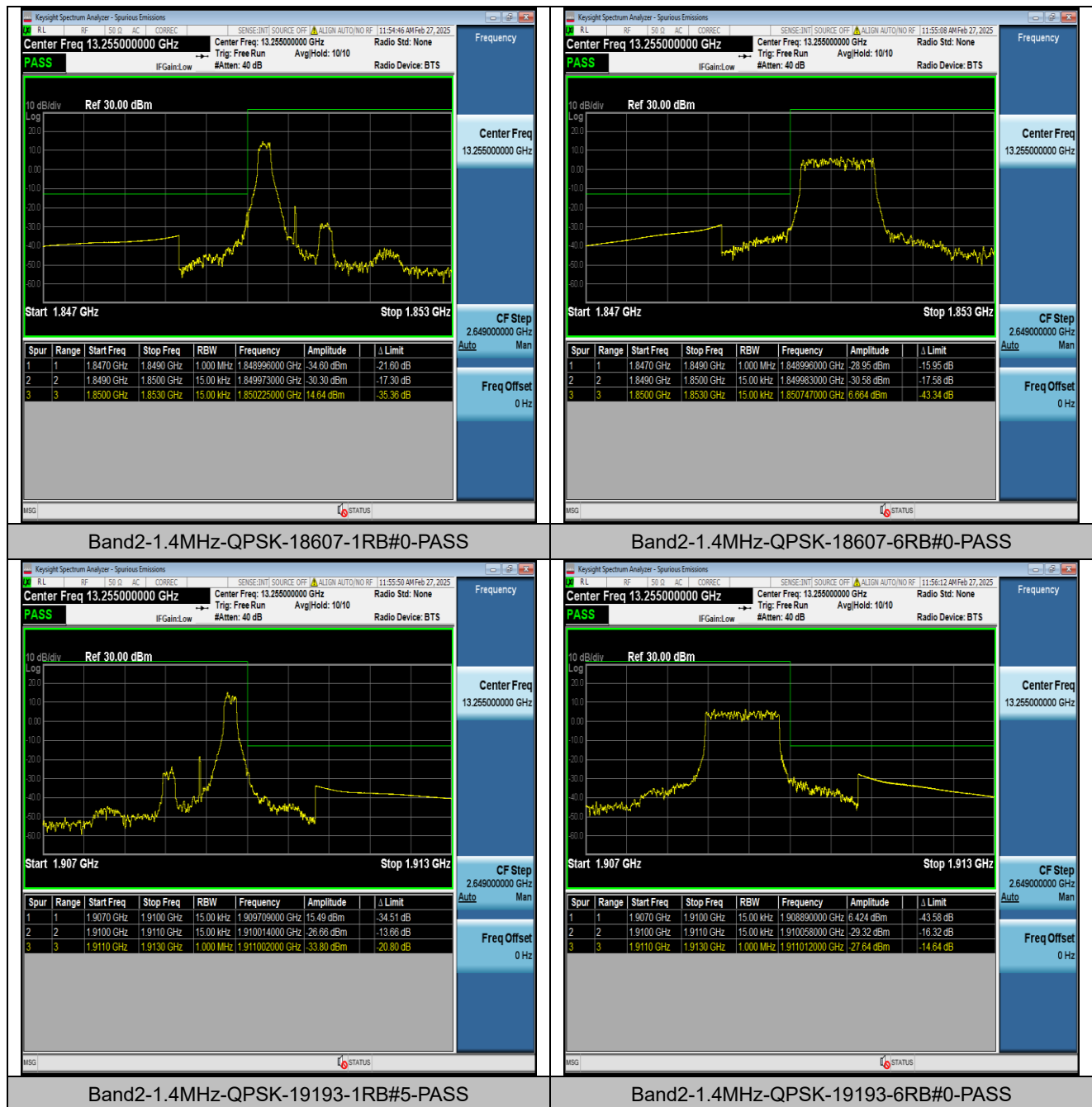


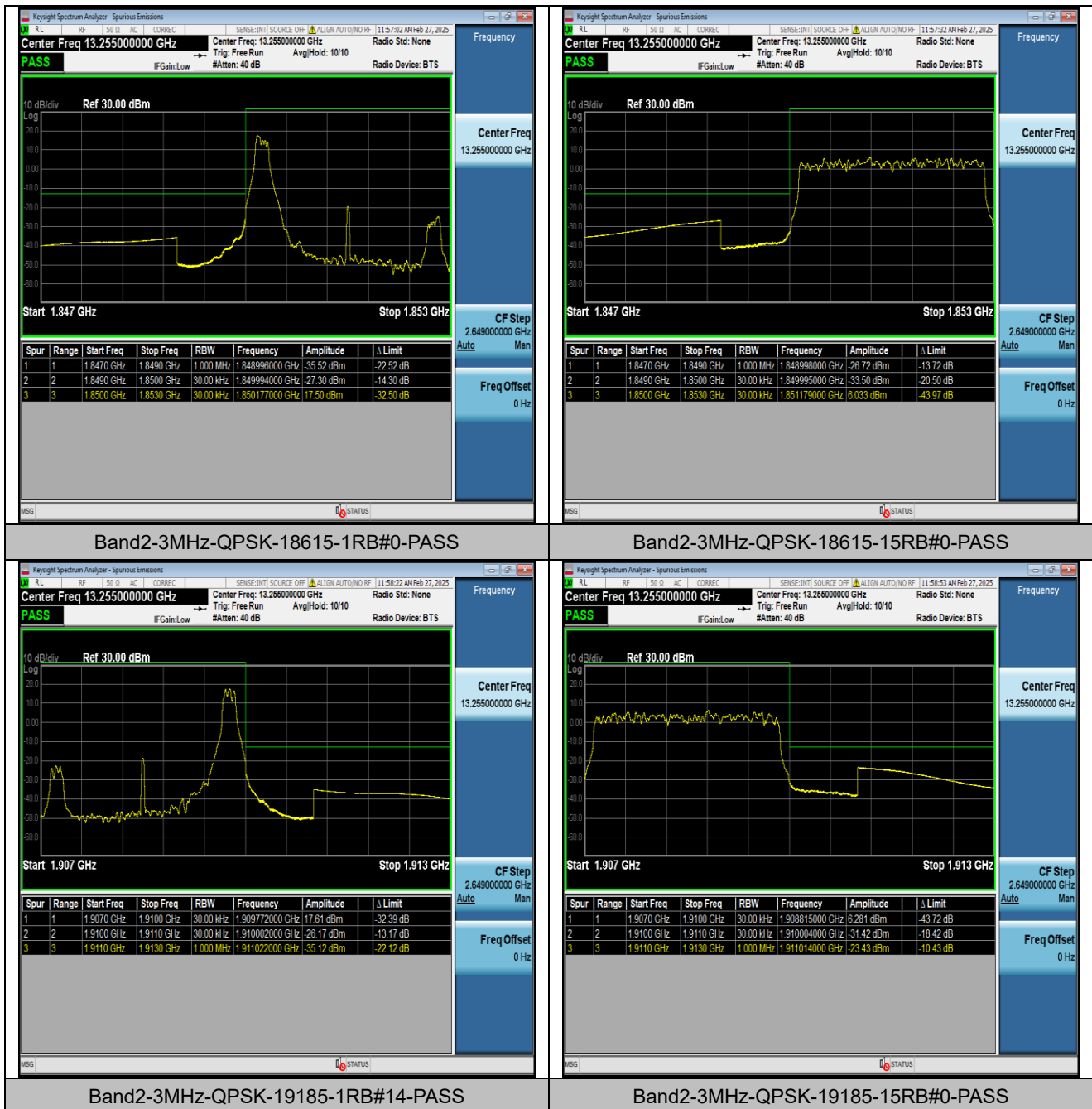


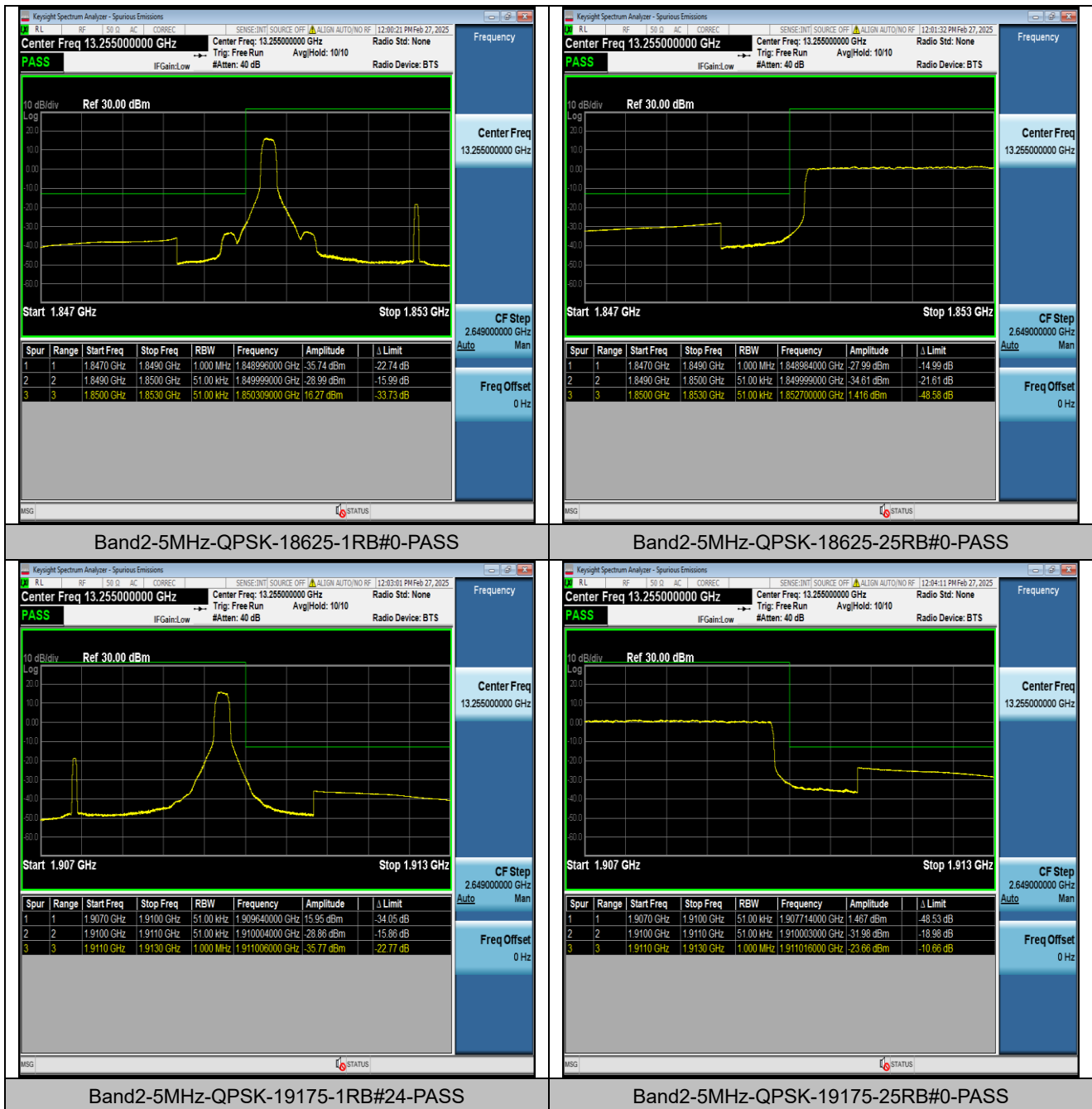


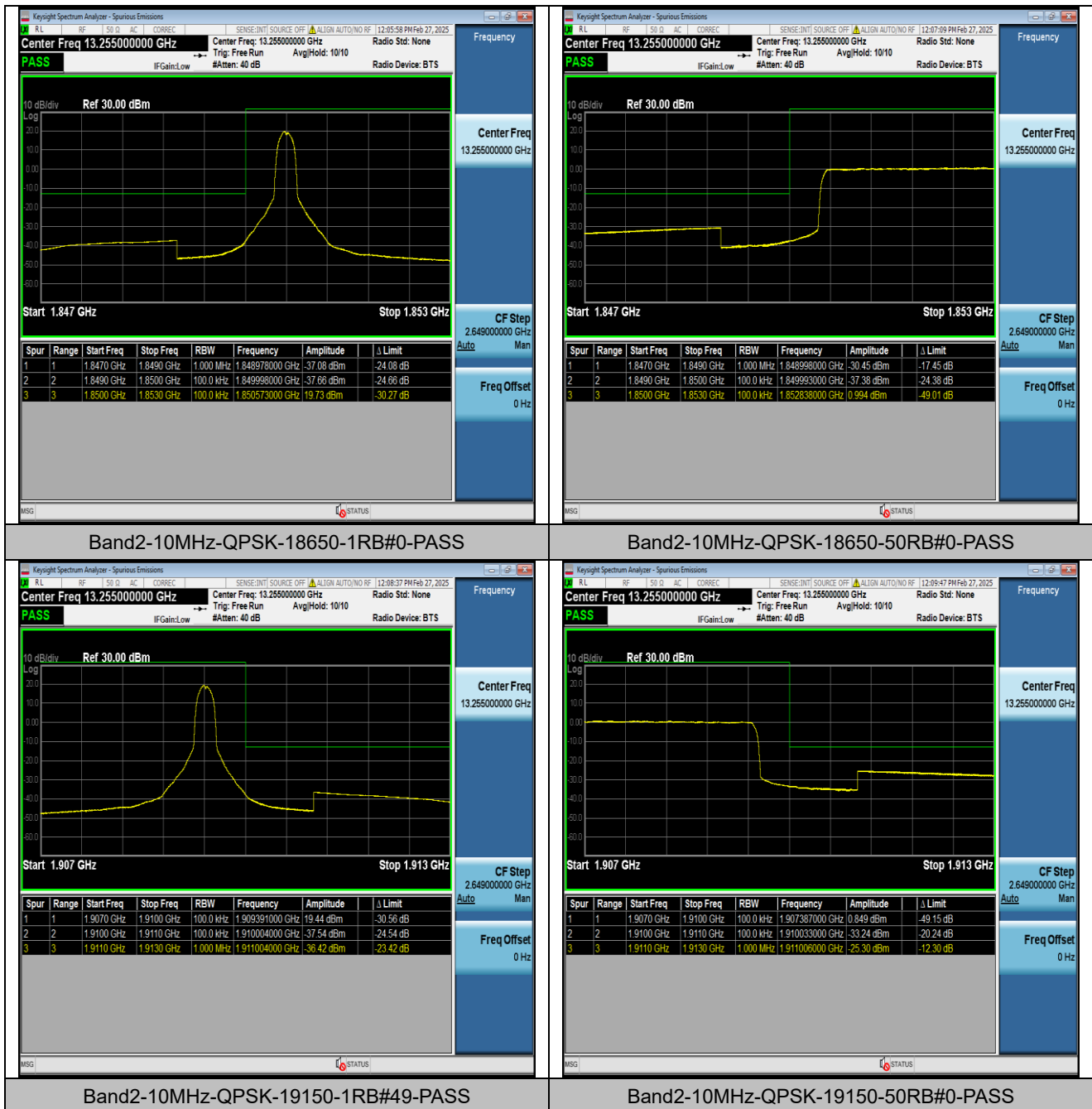
Band Edge

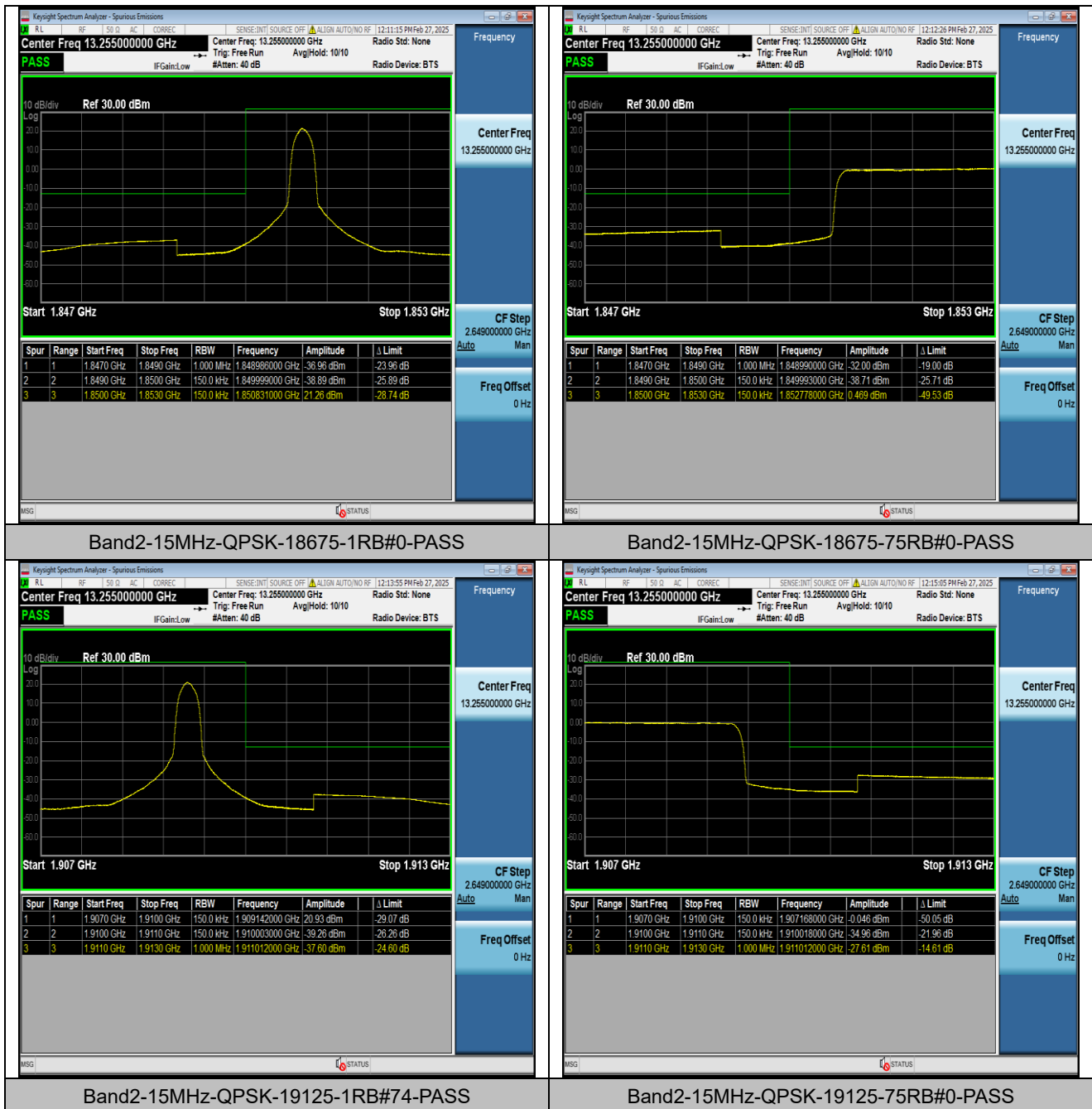
Test Graphs

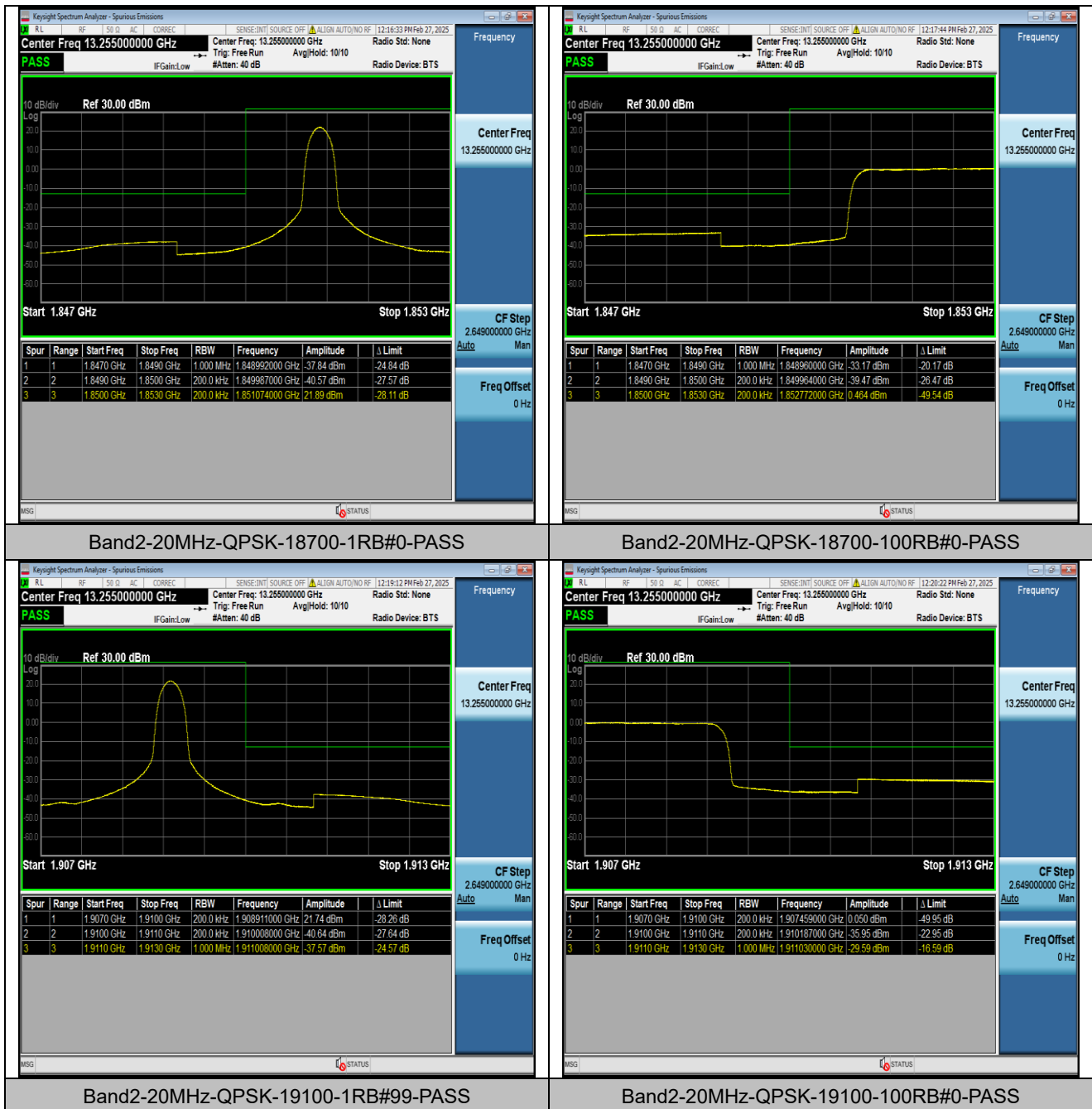






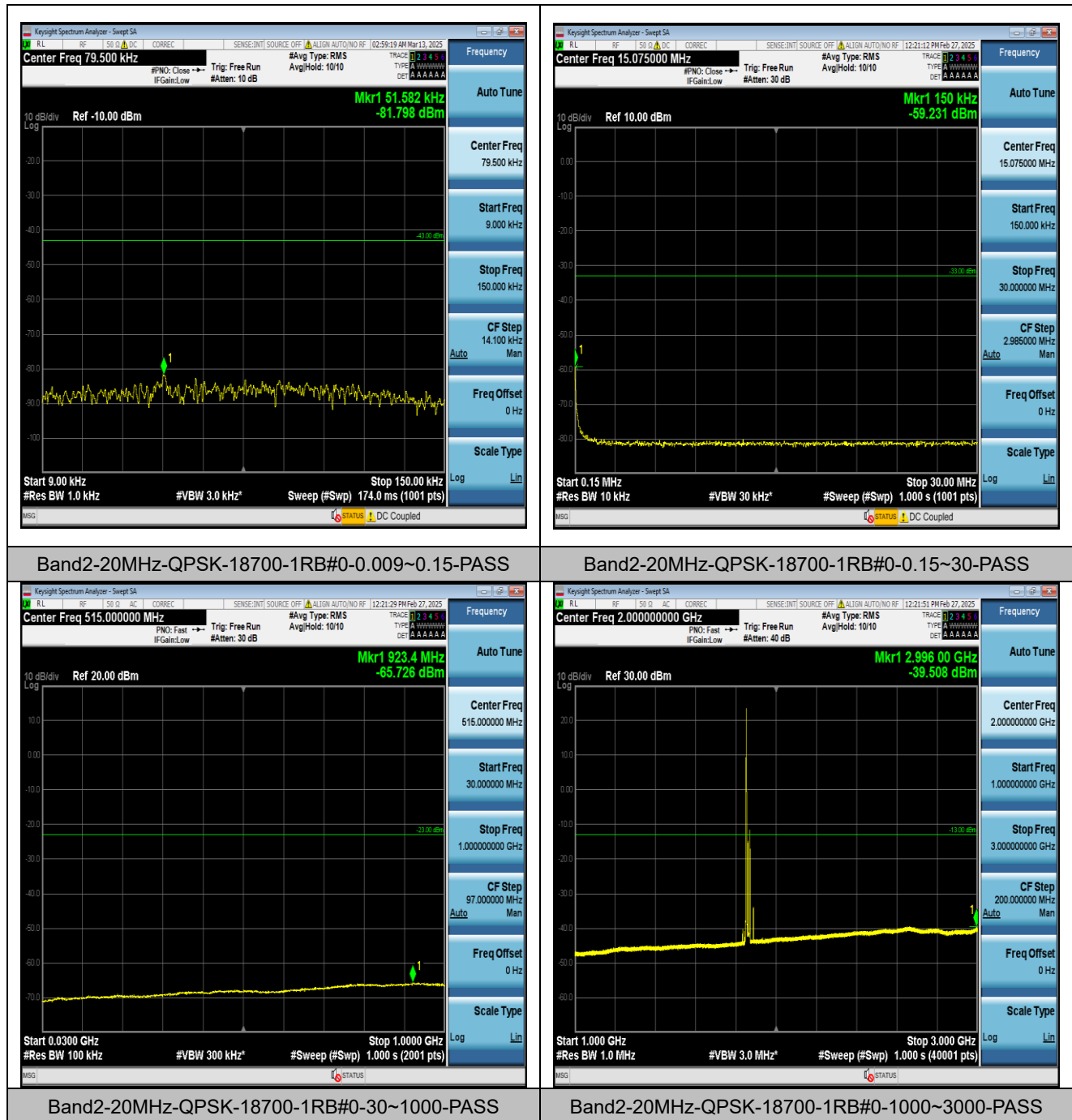


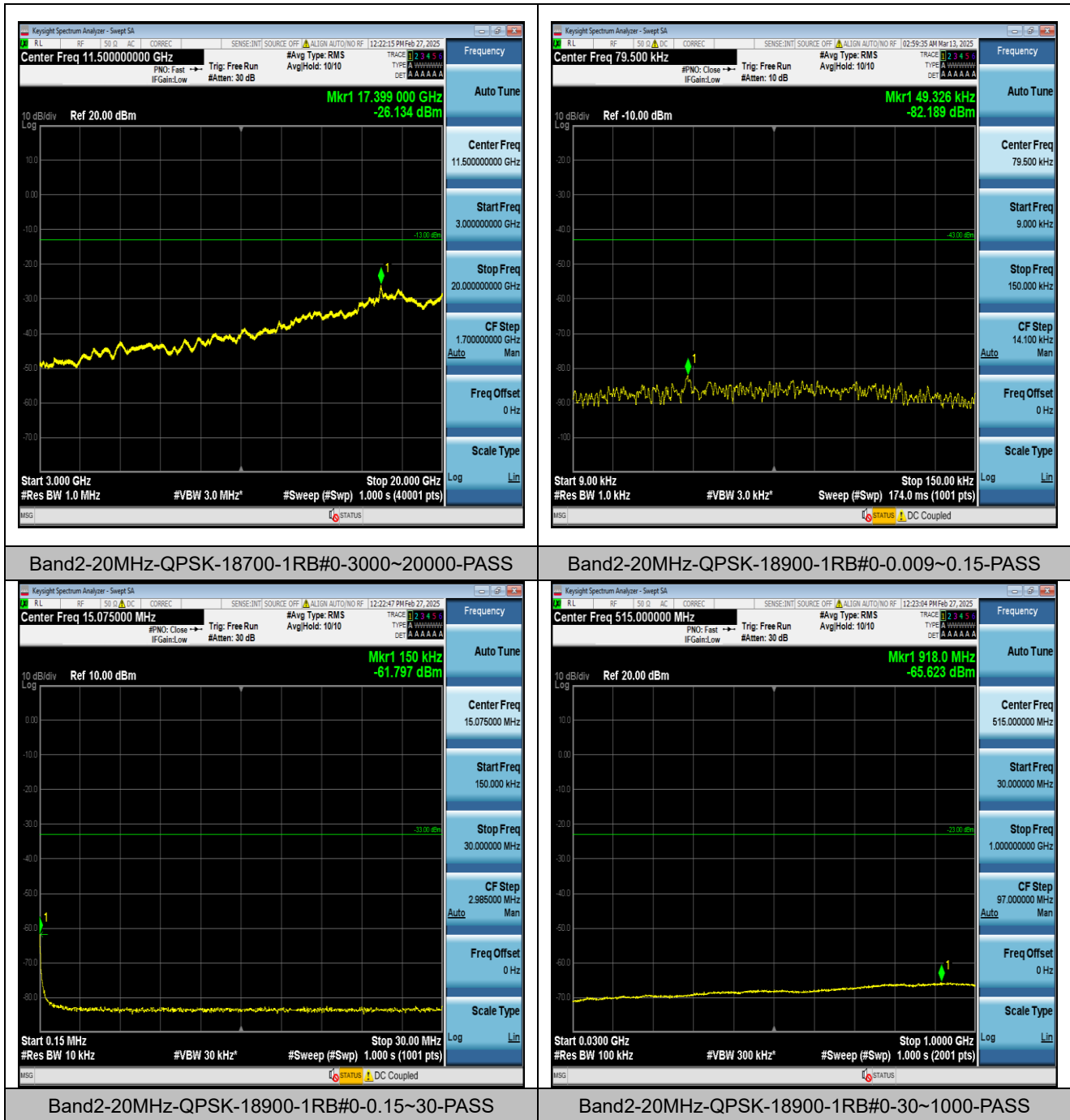




Conducted Spurious Emission

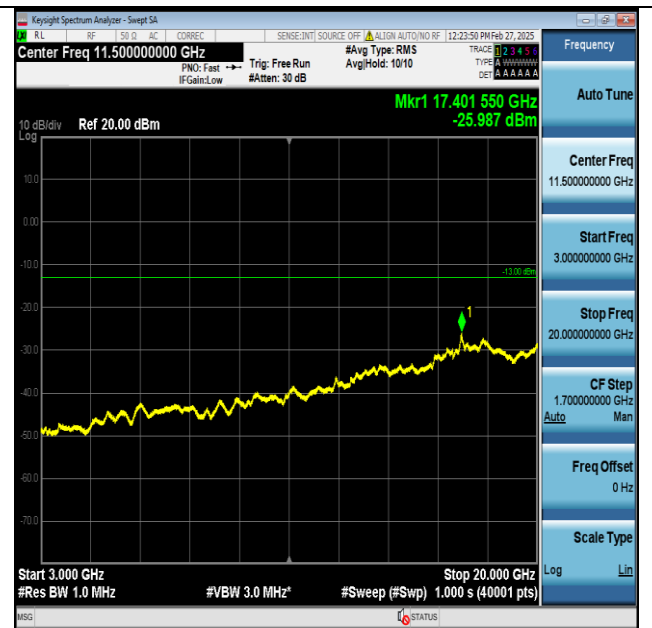
Test Graphs



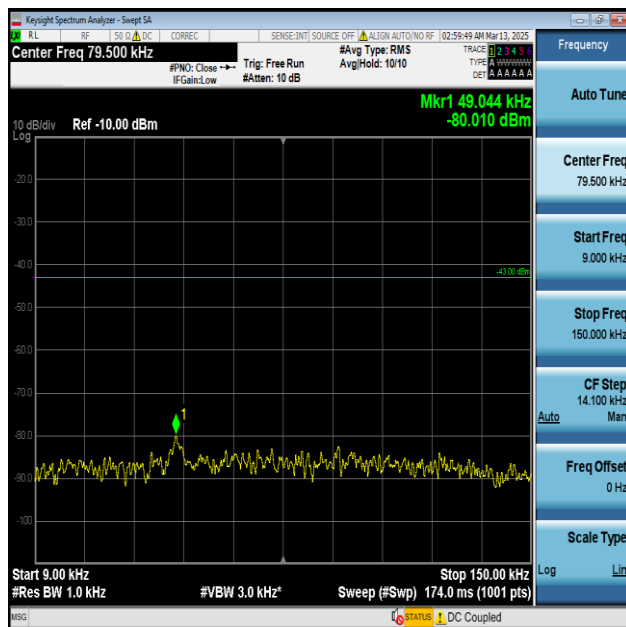




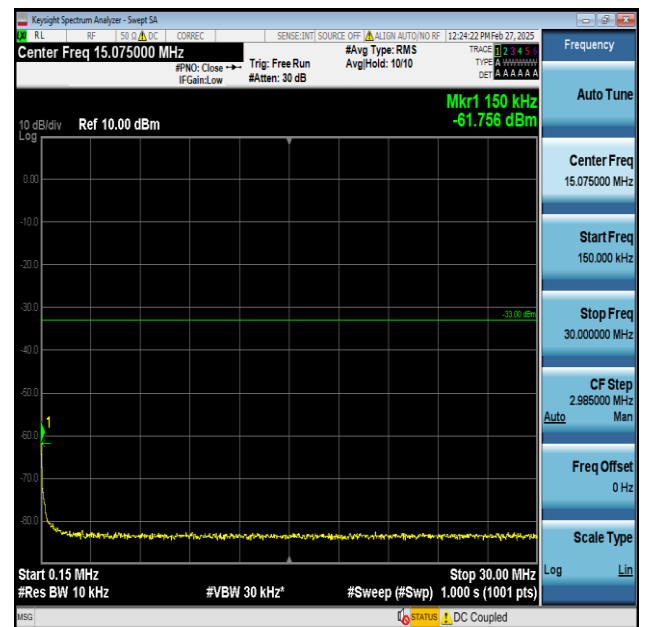
Band2-20MHz-QPSK-18900-1RB#0-1000~3000-PASS



Band2-20MHz-QPSK-18900-1RB#0-3000~20000-PASS



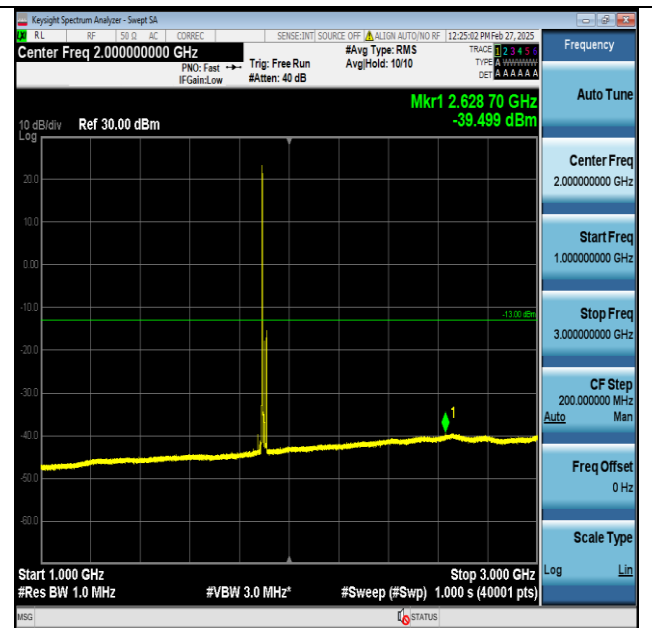
Band2-20MHz-QPSK-19100-1RB#0-0.009~0.15-PASS



Band2-20MHz-QPSK-19100-1RB#0-0.15~30-PASS



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	-3.10	-0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-4.40	-0.002340	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.60	-0.002447	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	-3.30	-0.001755	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-5.00	-0.002660	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-3.50	-0.001862	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.50	-0.001330	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-0.60	-0.000319	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-3.40	-0.001809	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-3.60	-0.001915	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-0.70	-0.000372	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-1.20	-0.000638	PASS

~The End~