

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	24.08	25.88	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	24.15	25.95	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	24.26	26.06	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	23.19	24.99	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.74	24.54	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.11	24.91	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	23.47	25.27	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	22.12	23.92	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.95	25.75	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	24.1	25.9	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	24.06	25.86	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	23.23	25.03	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	23.07	24.87	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.37	25.17	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.82	24.62	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	22.17	23.97	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	24.13	25.93	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	24.3	26.1	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	24.17	25.97	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	23.37	25.17	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	23.2	25	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.12	24.92	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.95	24.75	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	22.25	24.05	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	24.12	25.92	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	24.42	26.22	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	24.25	26.05	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	23.41	25.21	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	23.03	24.83	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	23.98	25.78	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	23.18	24.98	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	22.22	24.02	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.99	25.79	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	24.05	25.85	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	24.06	25.86	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	23.29	25.09	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	23	24.8	33.00	PASS

Band2	3MHz	16QAM	18900	1RB#8	22.9	24.7	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	23.02	24.82	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	22.18	23.98	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	24.32	26.12	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	24.18	25.98	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	24.32	26.12	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	23.33	25.13	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	23.05	24.85	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	23.14	24.94	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	23.01	24.81	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	22.14	23.94	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.05	25.85	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	24.43	26.23	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	24.03	25.83	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.33	25.13	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	23	24.8	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	23.1	24.9	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	23	24.8	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	22.31	24.11	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	24.16	25.96	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	24.33	26.13	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	24.1	25.9	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	23.25	25.05	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	23.02	24.82	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.99	24.79	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	23.34	25.14	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.12	23.92	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	24.03	25.83	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	24.37	26.17	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	24.12	25.92	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	23.37	25.17	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	23.18	24.98	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	23.19	24.99	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	23.48	25.28	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	22.54	24.34	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.14	25.94	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	24.24	26.04	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.2	26	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	23.32	25.12	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.52	25.32	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.2	25	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.14	24.94	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	22.28	24.08	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	24.22	26.02	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.51	26.31	33.00	PASS

Band2	10MHz	QPSK	18900	1RB#49	24.17	25.97	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	23.29	25.09	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	23.13	24.93	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.77	25.57	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.03	24.83	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	22.36	24.16	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	24.42	26.22	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	24.43	26.23	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	24.27	26.07	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	23.25	25.05	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.68	25.48	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.21	25.01	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.44	25.24	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	22.48	24.28	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	24.09	25.89	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	24.42	26.22	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	24.27	26.07	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.34	25.14	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.01	24.81	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.88	25.68	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.5	25.3	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	22.38	24.18	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	24.18	25.98	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	24.31	26.11	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	24.04	25.84	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	23.24	25.04	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	23.56	25.36	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	23.11	24.91	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	23	24.8	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	22.2	24	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.27	26.07	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	24.52	26.32	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	24.4	26.2	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	23.3	25.1	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.13	24.93	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	23.08	24.88	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.13	24.93	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	22.31	24.11	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	24.1	25.9	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	24.25	26.05	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	24.18	25.98	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.32	25.12	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	23.03	24.83	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.51	25.31	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	23.11	24.91	33.00	PASS

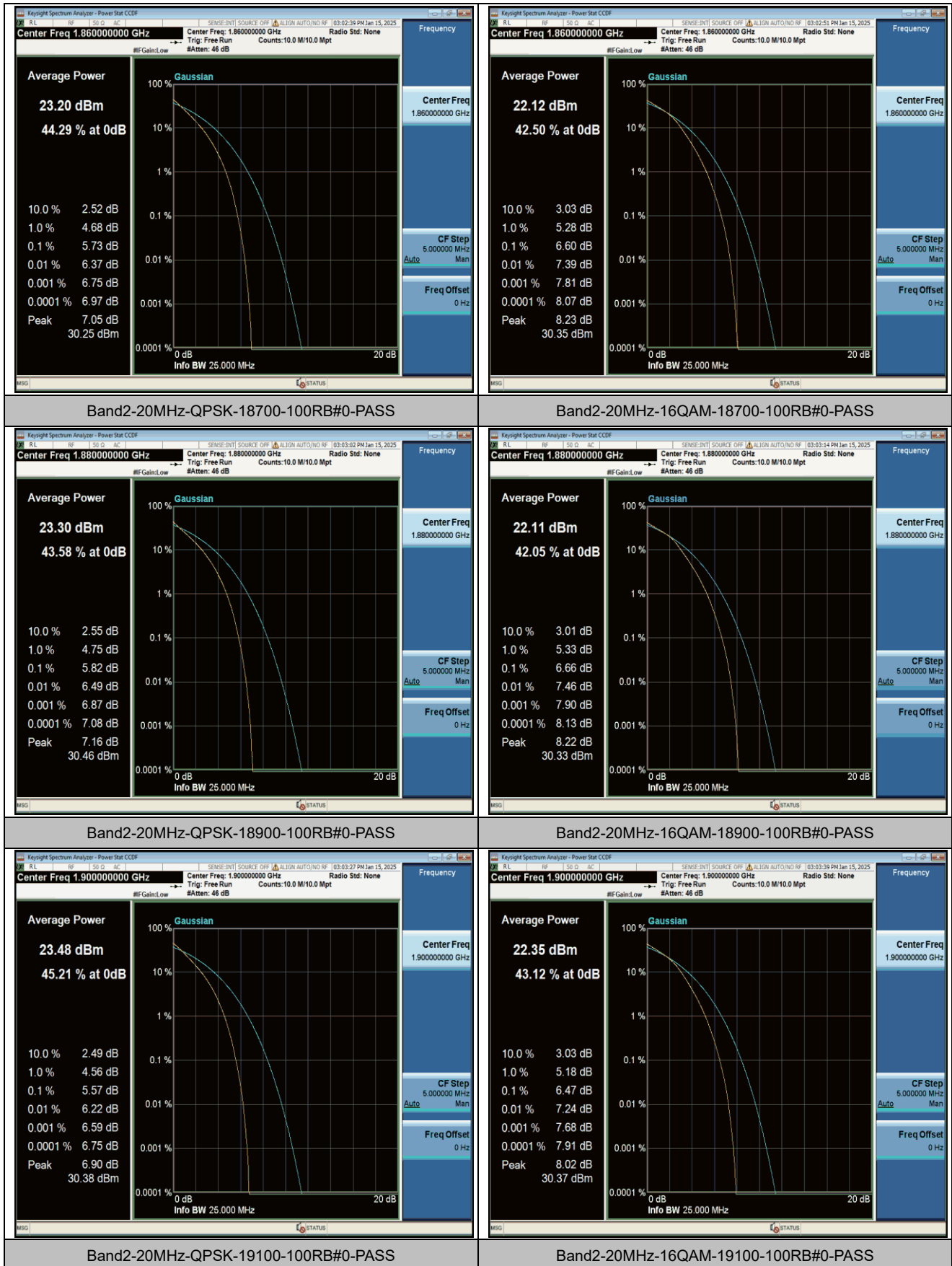
Band2	20MHz	16QAM	18700	100RB#0	22.3	24.1	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	24.19	25.99	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	24.54	26.34	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.96	25.76	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	23.17	24.97	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	23.04	24.84	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	23.86	25.66	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.83	24.63	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.98	23.78	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	24.03	25.83	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	24.26	26.06	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	24.18	25.98	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	23.31	25.11	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.91	24.71	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.14	24.94	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	23.1	24.9	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	22.27	24.07	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	5.73	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.60	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.82	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.66	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.57	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.47	13	PASS

Test Graphs

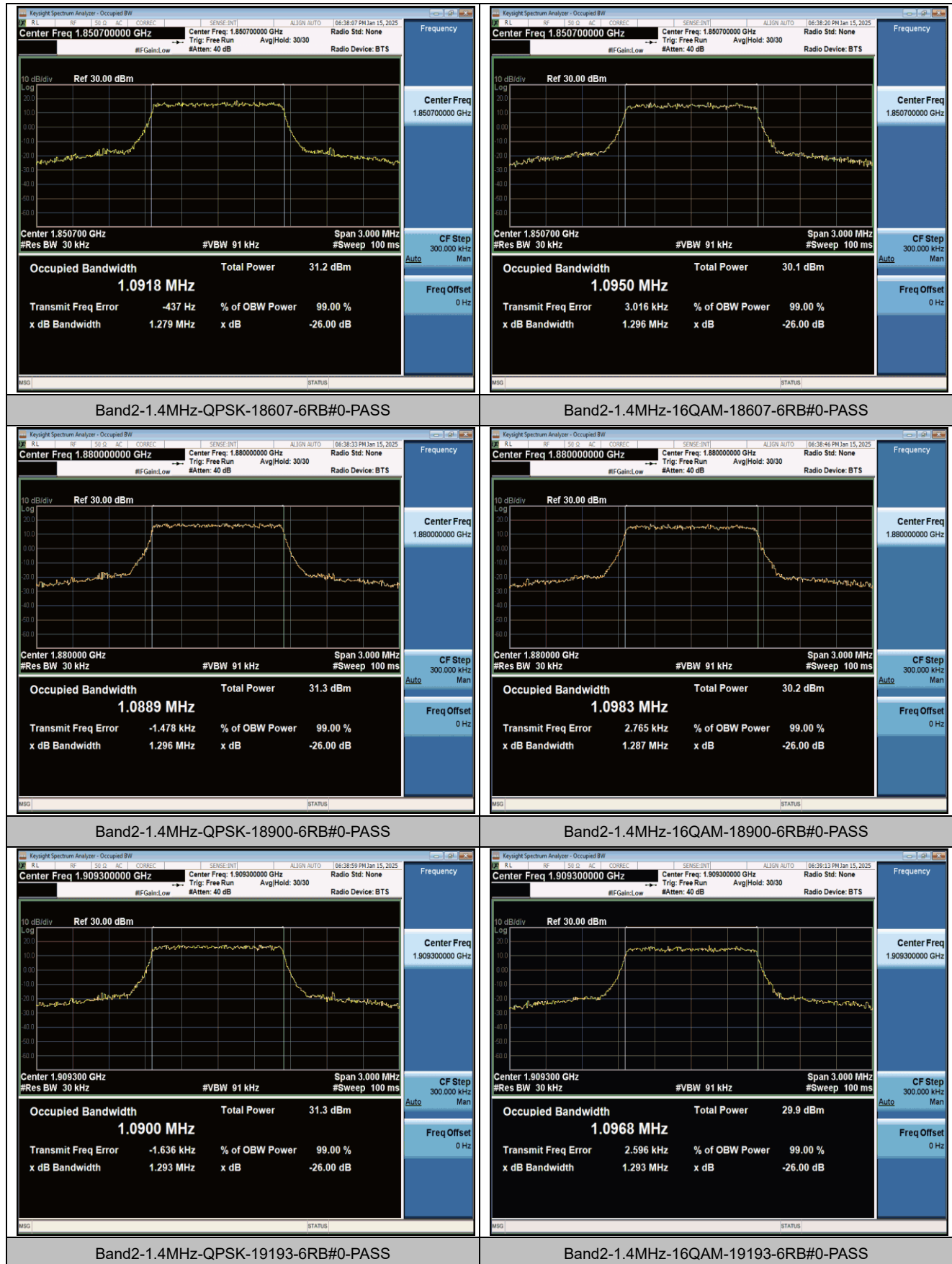


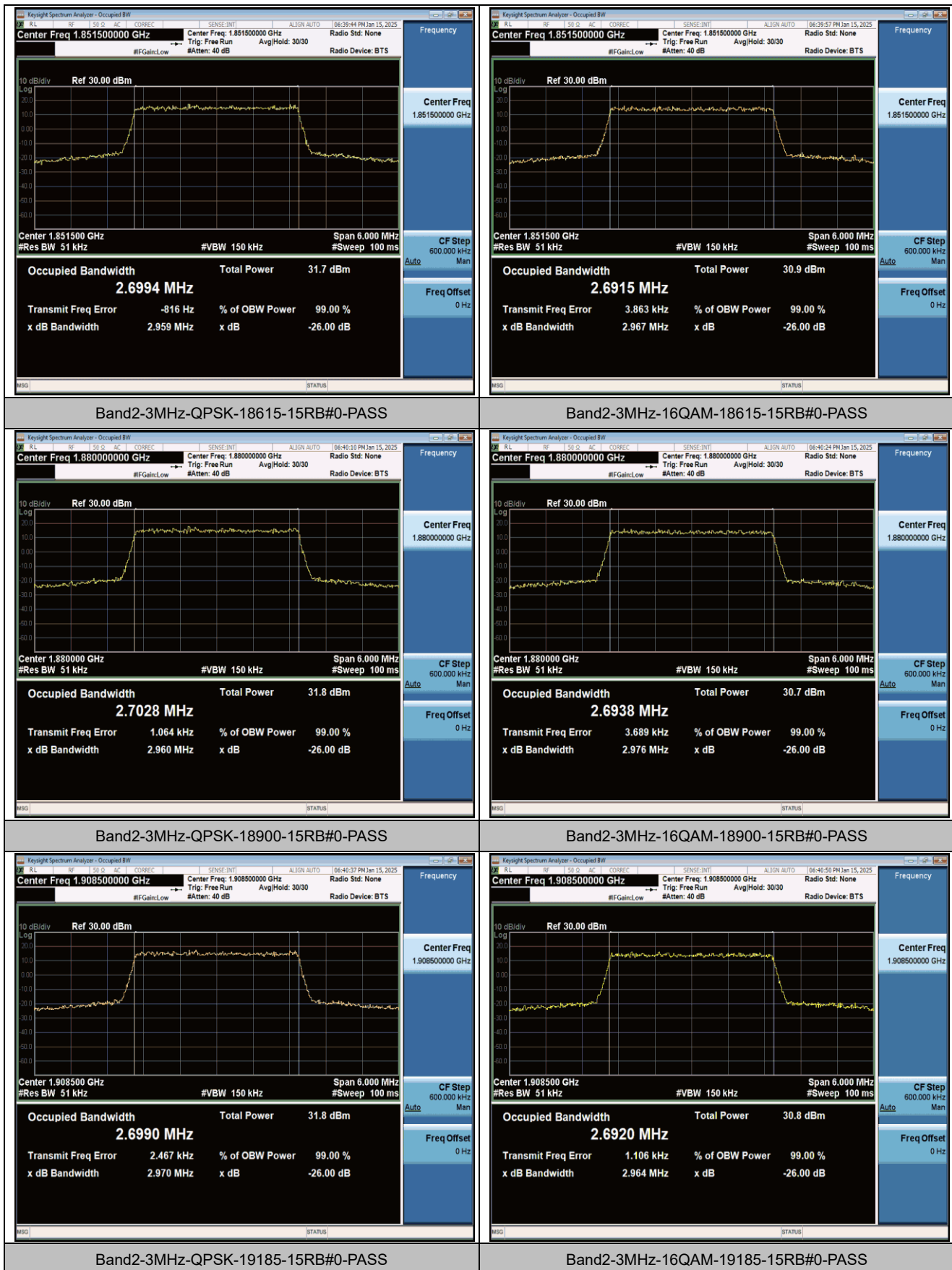
26dB Bandwidth and Occupied Bandwidth

Test Result

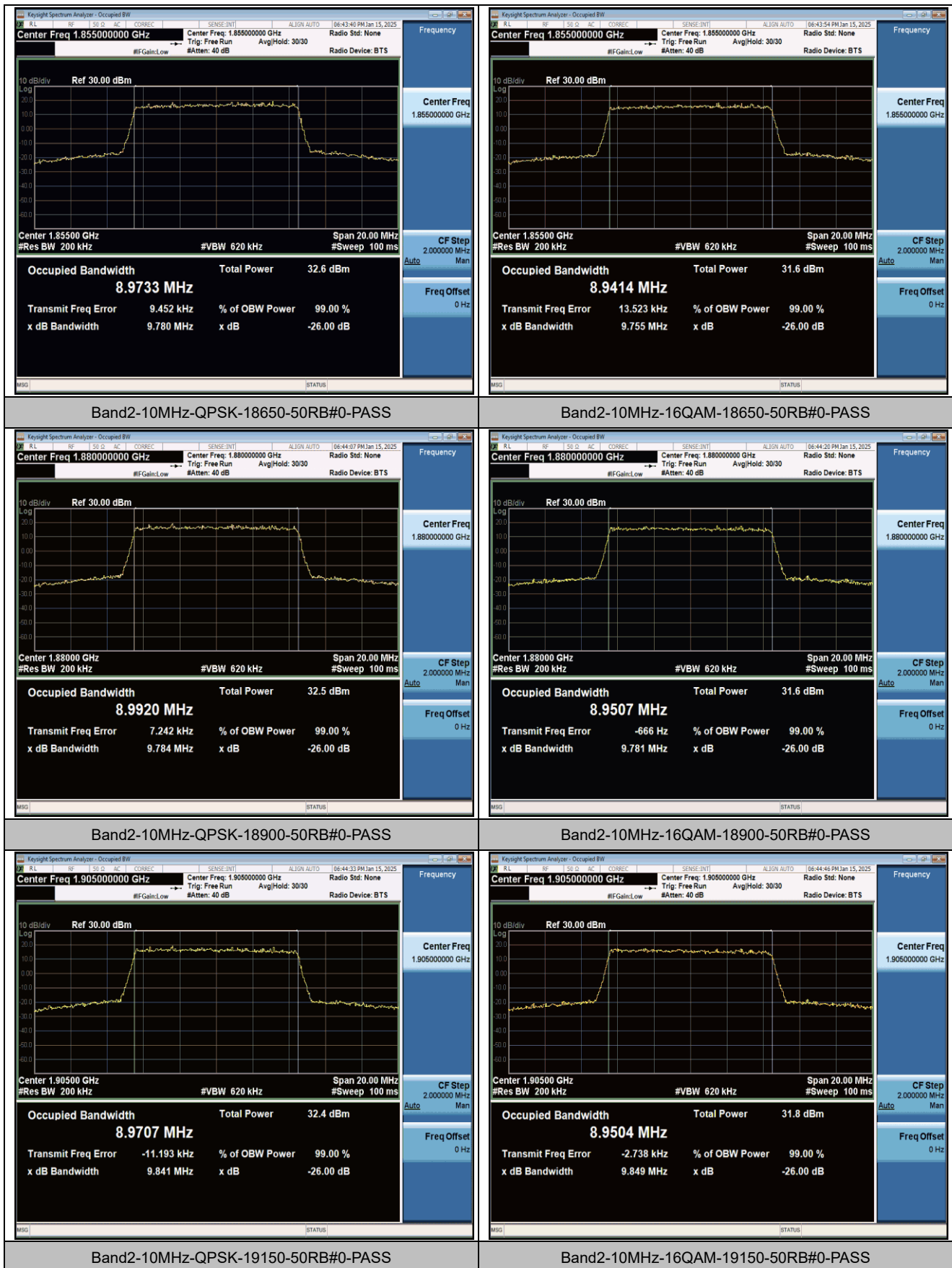
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0918	1.279	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0950	1.296	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0889	1.296	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0983	1.287	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0900	1.293	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0968	1.293	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6994	2.959	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6915	2.967	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7028	2.960	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6938	2.976	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6990	2.970	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6920	2.964	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4900	5.013	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4904	5.021	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4910	4.999	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4936	5.041	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4904	4.989	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4896	5.027	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9733	9.780	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9414	9.755	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9920	9.784	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9507	9.781	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9707	9.841	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9504	9.849	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.459	14.72	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.419	14.73	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.477	14.78	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.445	14.68	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.439	14.65	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.415	14.67	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.940	19.41	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.901	19.43	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.018	19.45	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.958	19.47	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.933	19.36	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.877	19.42	PASS

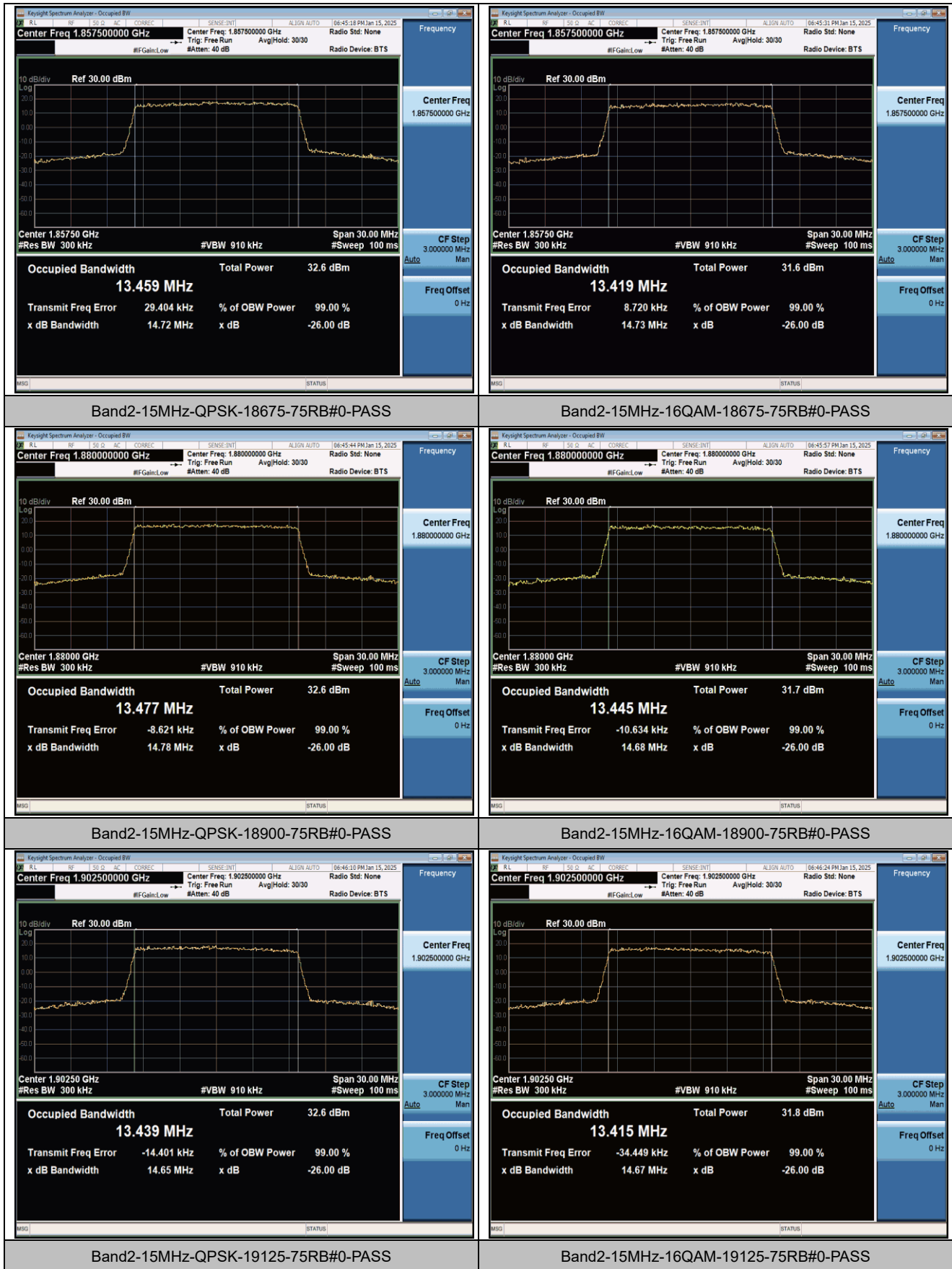
Test Graphs

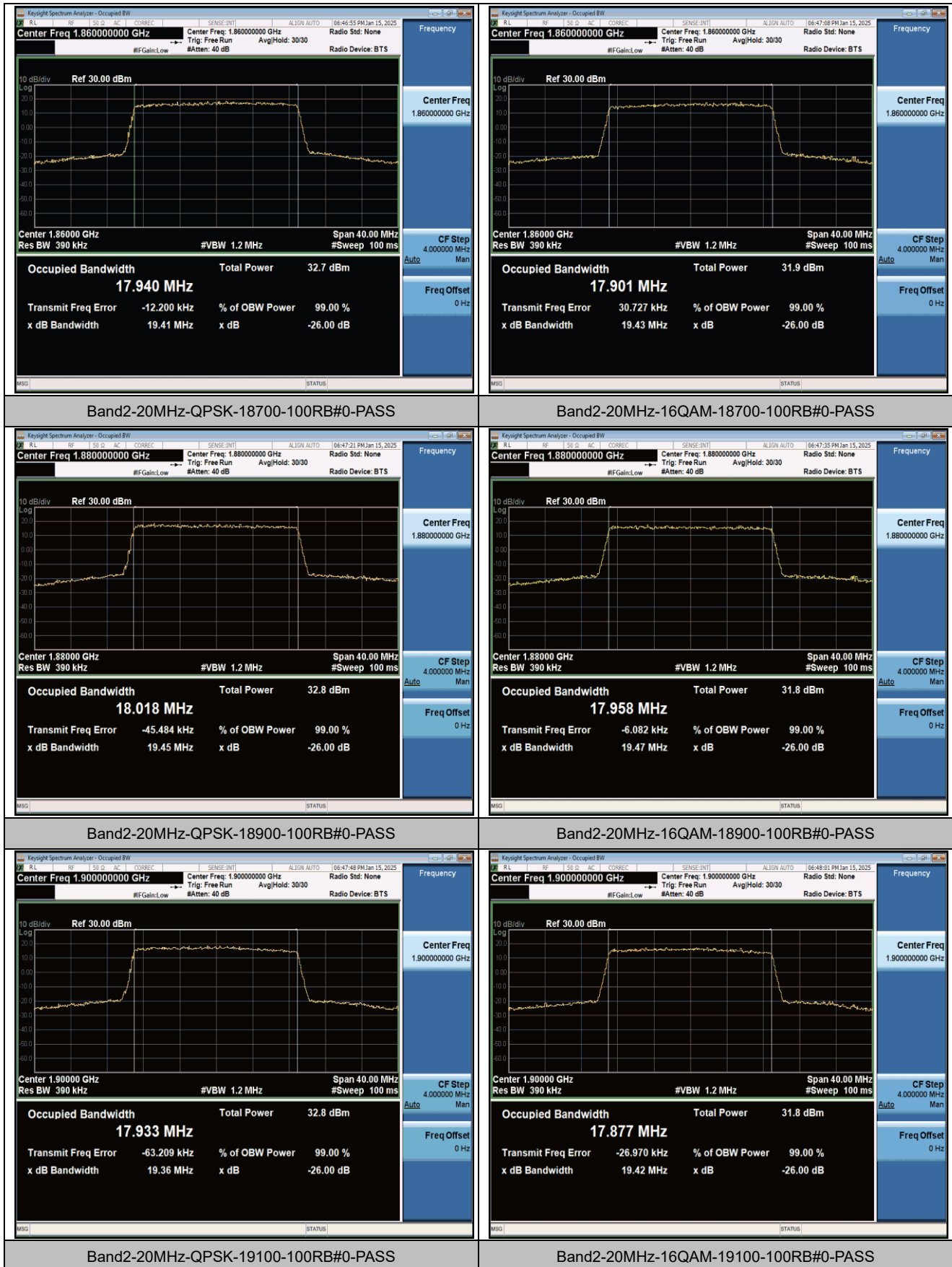






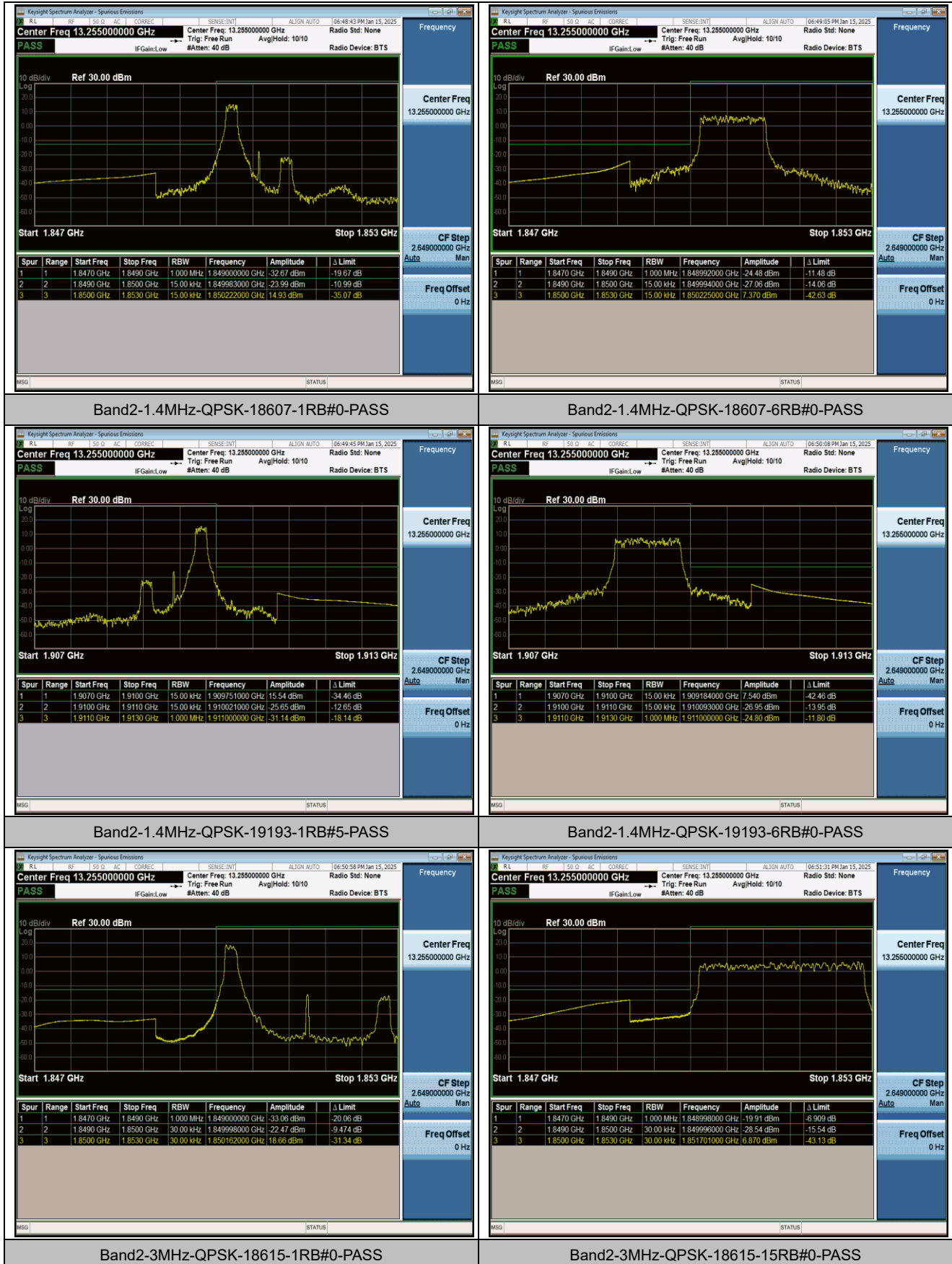


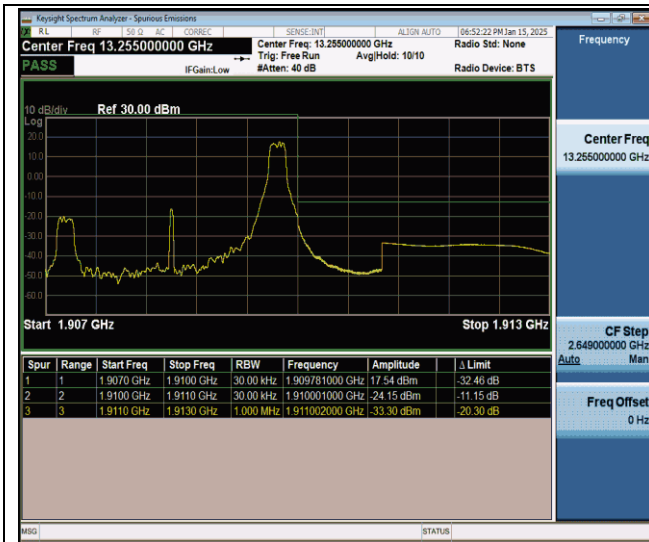




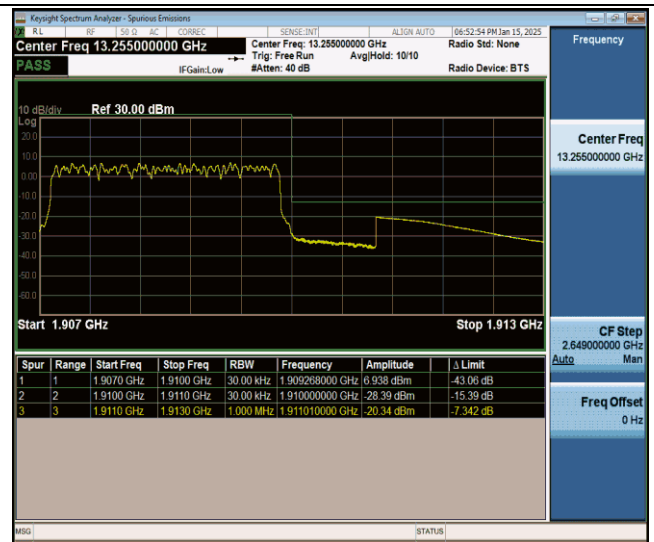
Band Edge

Test Graphs

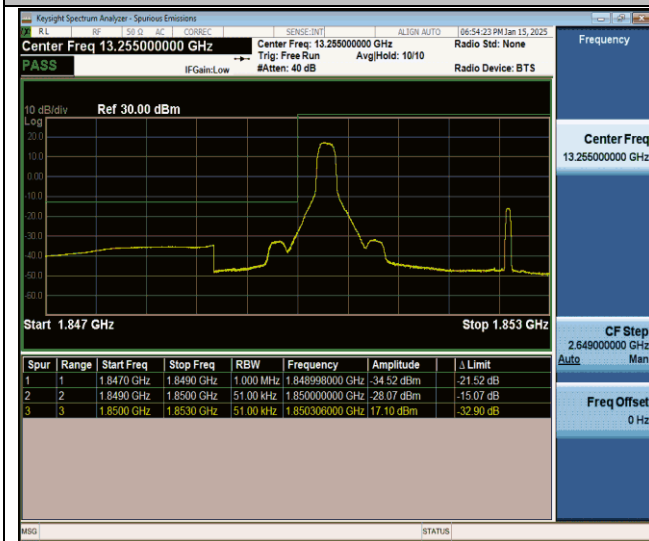




Band2-3MHz-QPSK-19185-1RB#14-PASS



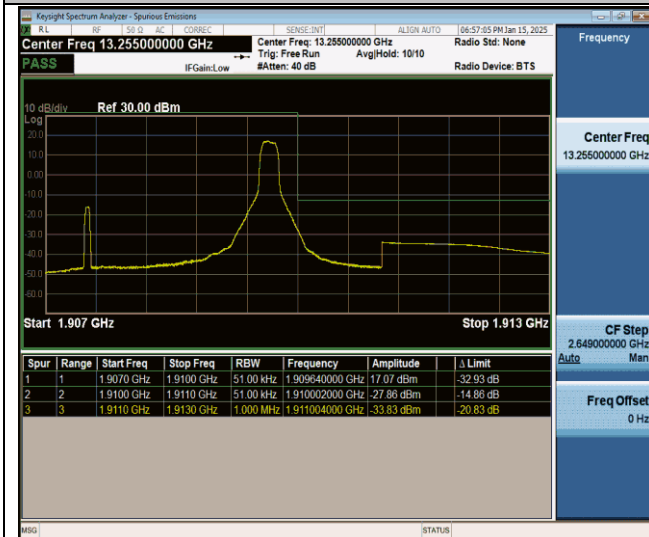
Band2-3MHz-QPSK-19185-15RB#0-PASS



Band2-5MHz-QPSK-18625-1RB#0-PASS



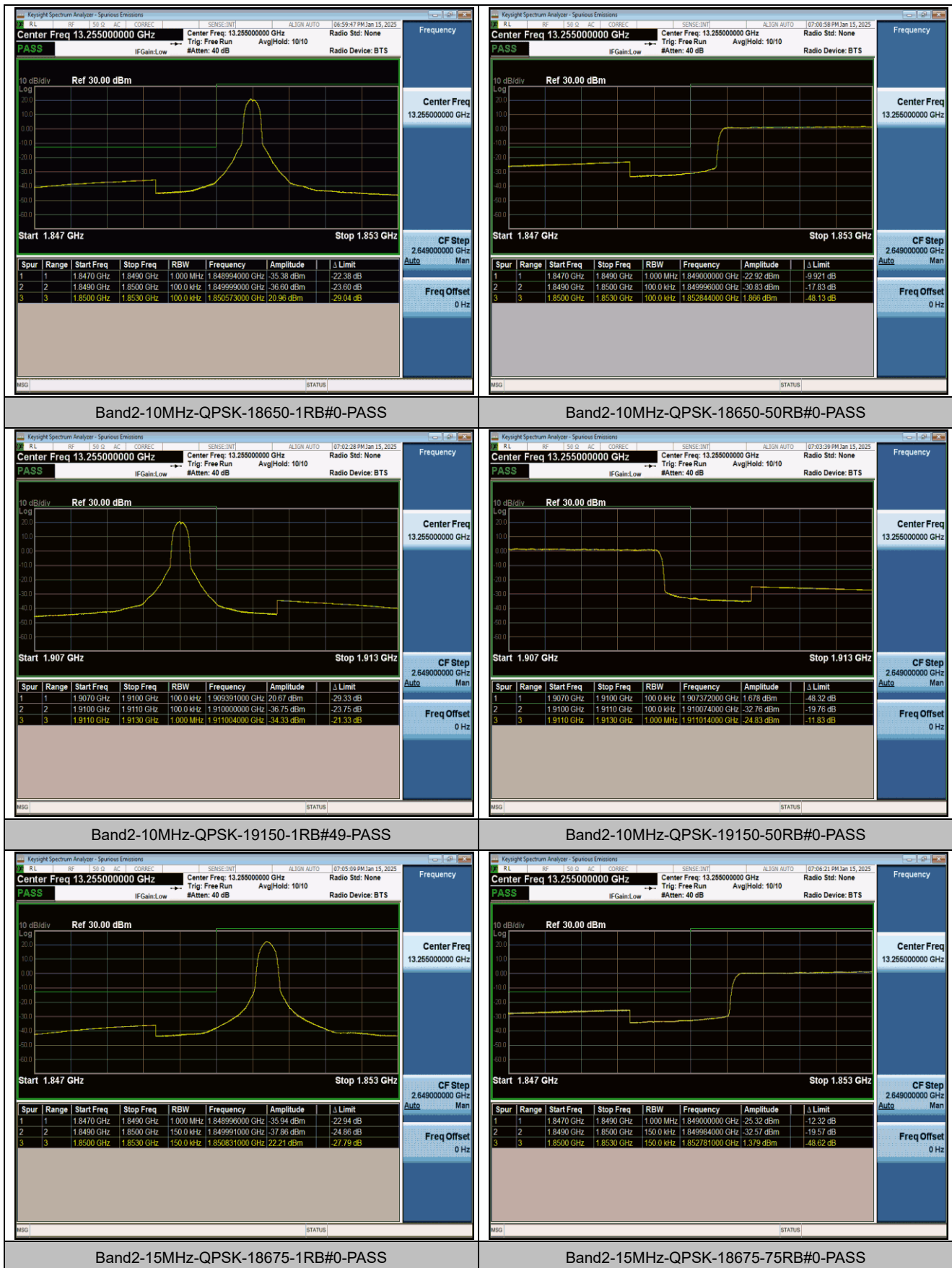
Band2-5MHz-QPSK-18625-25RB#0-PASS

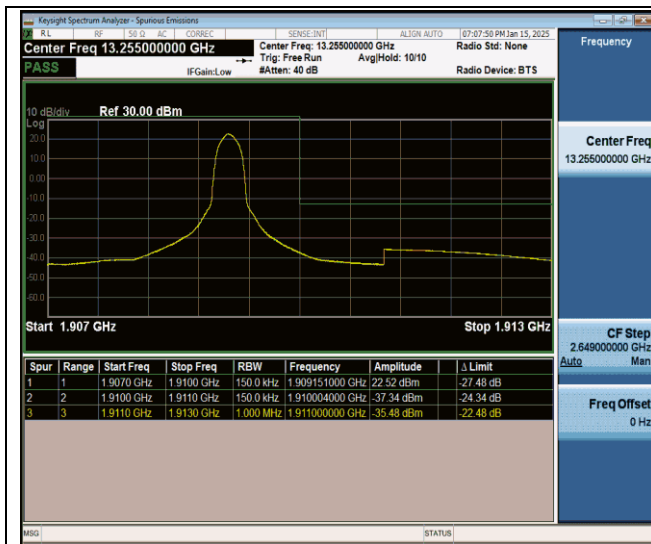


Band2-5MHz-QPSK-19175-1RB#24-PASS

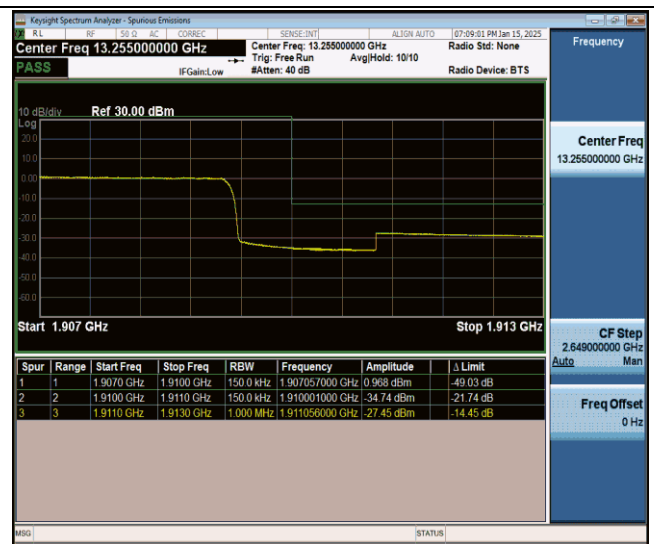


Band2-5MHz-QPSK-19175-25RB#0-PASS

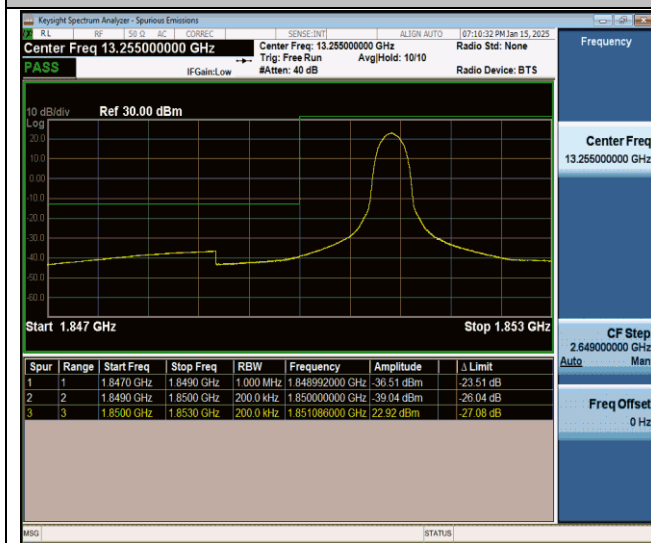




Band2-15MHz-QPSK-19125-1RB#74-PASS



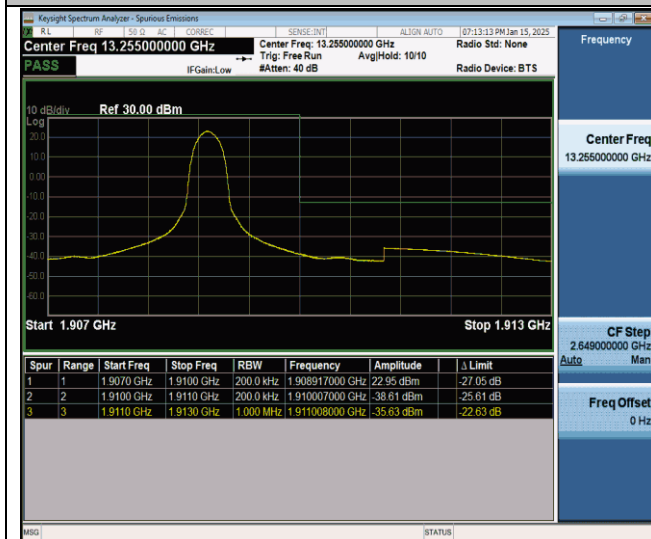
Band2-15MHz-QPSK-19125-75RB#0-PASS



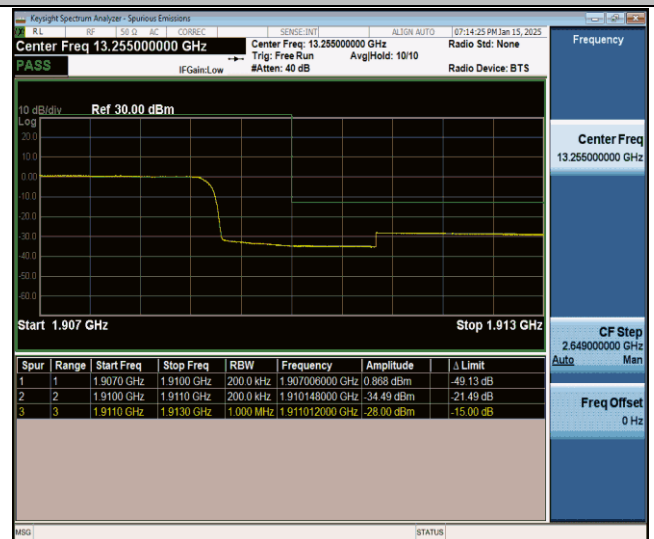
Band2-20MHz-QPSK-18700-1RB#0-PASS



Band2-20MHz-QPSK-18700-100RB#0-PASS



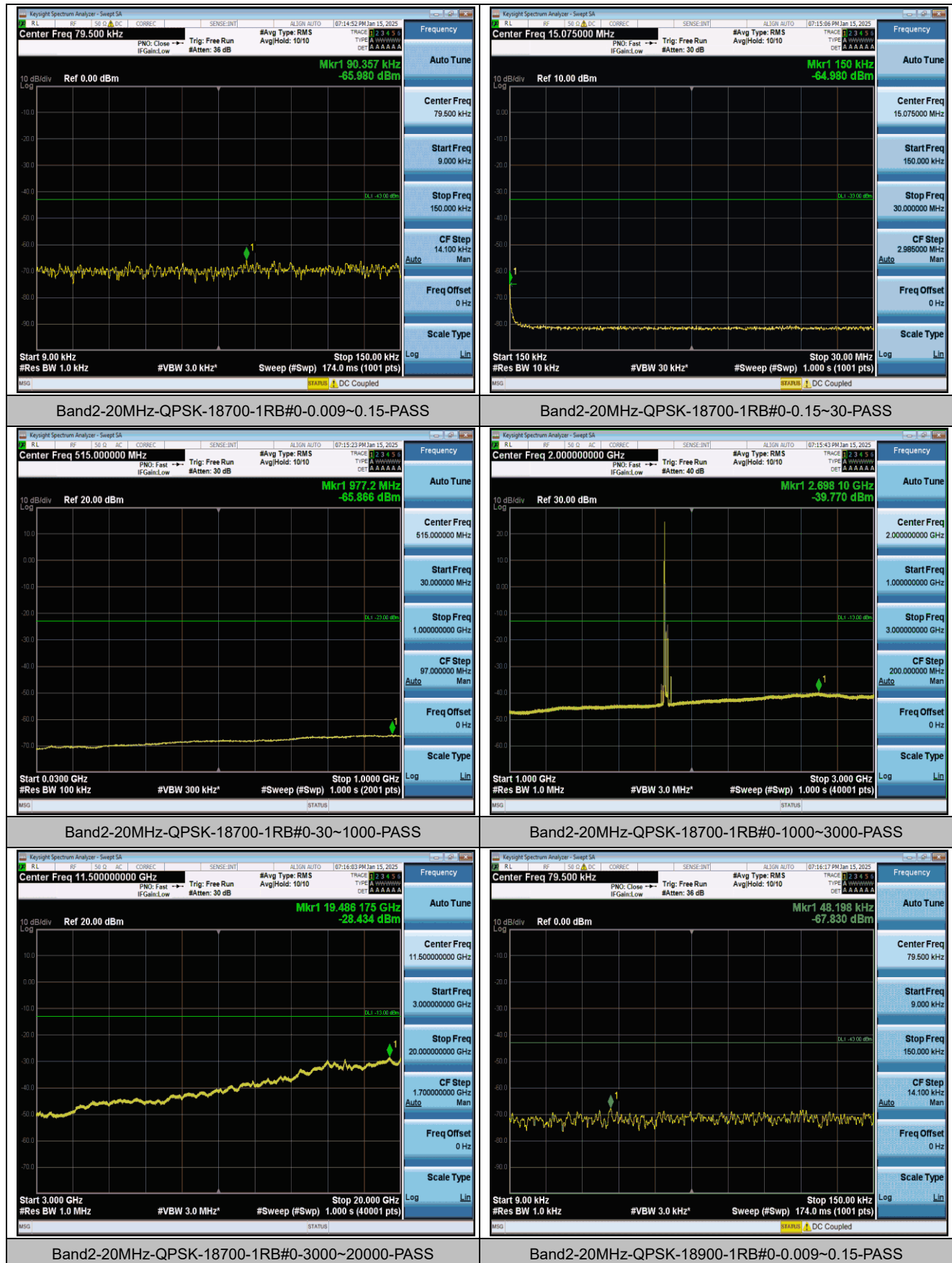
Band2-20MHz-QPSK-19100-1RB#99-PASS

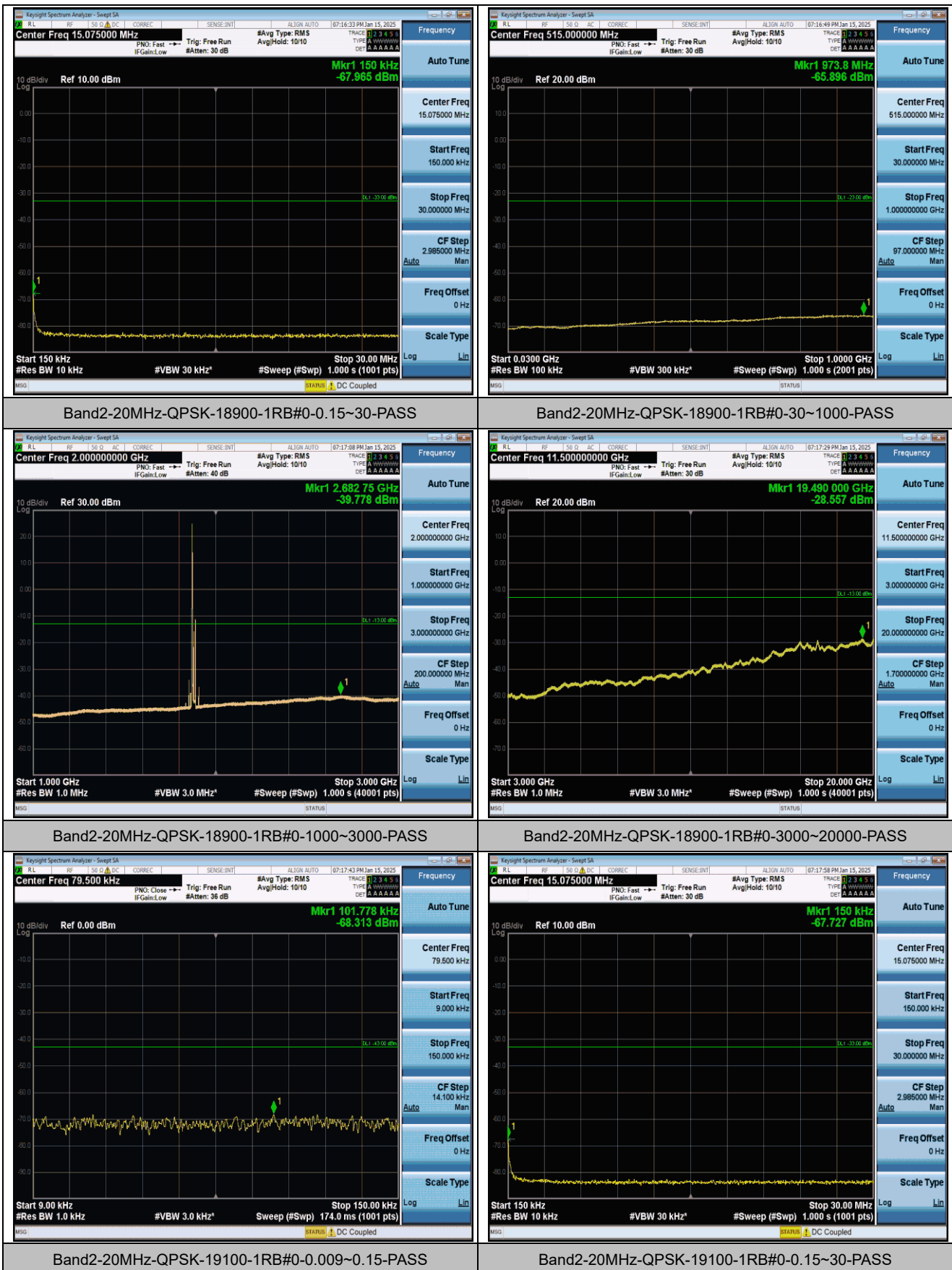


Band2-20MHz-QPSK-19100-100RB#0-PASS

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	-3.90	-0.002074	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-0.80	-0.000426	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-2.40	-0.001277	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	-1.90	-0.001011	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-4.50	-0.002394	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-2.40	-0.001277	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.40	-0.001277	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-2.30	-0.001223	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.30	-0.001755	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-4.00	-0.002128	PASS

~The End~