

Appendix-C LTE Band 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant8:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.71	20.01	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.73	20.03	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.65	19.95	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.81	19.11	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.85	19.15	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.57	18.87	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.97	19.27	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.78	18.08	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.97	18.27	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.05	18.35	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.85	18.15	33	PASS
Band7	5MHz	64QAM	20775	25RB#0	19.81	17.11	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.51	20.81	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.43	20.73	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.01	20.31	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.24	19.54	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.26	19.56	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.53	19.83	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.28	19.58	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.28	18.58	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.43	18.73	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.47	18.77	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.35	18.65	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.29	17.59	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.44	20.74	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.32	20.62	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.06	20.36	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.35	19.65	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.64	19.94	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.48	19.78	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.36	19.66	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.39	18.69	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.57	18.87	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.6	18.9	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.38	18.68	33	PASS

Band7	5MHz	64QAM	21425	25RB#0	20.34	17.64	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.62	19.92	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.68	19.98	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.71	19.01	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.43	18.73	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.95	19.25	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.9	19.2	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.69	17.99	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.48	17.78	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.15	18.45	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.04	18.34	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.07	17.37	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.54	16.84	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.25	20.55	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.33	20.63	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.12	20.42	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.18	19.48	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.36	19.66	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.46	19.76	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.25	19.55	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.15	18.45	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.43	18.73	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.72	19.02	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.63	18.93	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.26	17.56	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.24	20.54	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.13	20.43	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.98	20.28	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.35	19.65	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.03	19.33	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.39	19.69	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.07	19.37	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.35	18.65	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.47	18.77	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.51	18.81	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.6	18.9	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.33	17.63	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.61	19.91	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.38	19.68	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.55	19.85	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.42	18.72	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.54	18.84	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.27	18.57	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.69	18.99	33	PASS

Band7	15MHz	16QAM	20825	75RB#0	20.47	17.77	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.04	18.34	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.74	18.04	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.82	18.12	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.58	16.88	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.19	20.49	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.15	20.45	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.06	20.36	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.31	19.61	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.44	19.74	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.3	19.6	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.18	19.48	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.23	18.53	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.22	18.52	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.58	18.88	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.36	18.66	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.21	17.51	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.42	20.72	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.46	20.76	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.87	20.17	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.25	19.55	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.18	19.48	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.29	19.59	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.06	19.36	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.24	18.54	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.23	18.53	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.35	18.65	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.27	18.57	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.14	17.44	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.61	19.91	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.58	18.88	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.14	20.44	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.34	18.64	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.48	18.78	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.79	18.09	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.14	19.44	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.42	17.72	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.23	18.53	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.06	17.36	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.42	18.72	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.58	16.88	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.32	20.62	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.25	20.55	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23	20.3	33	PASS

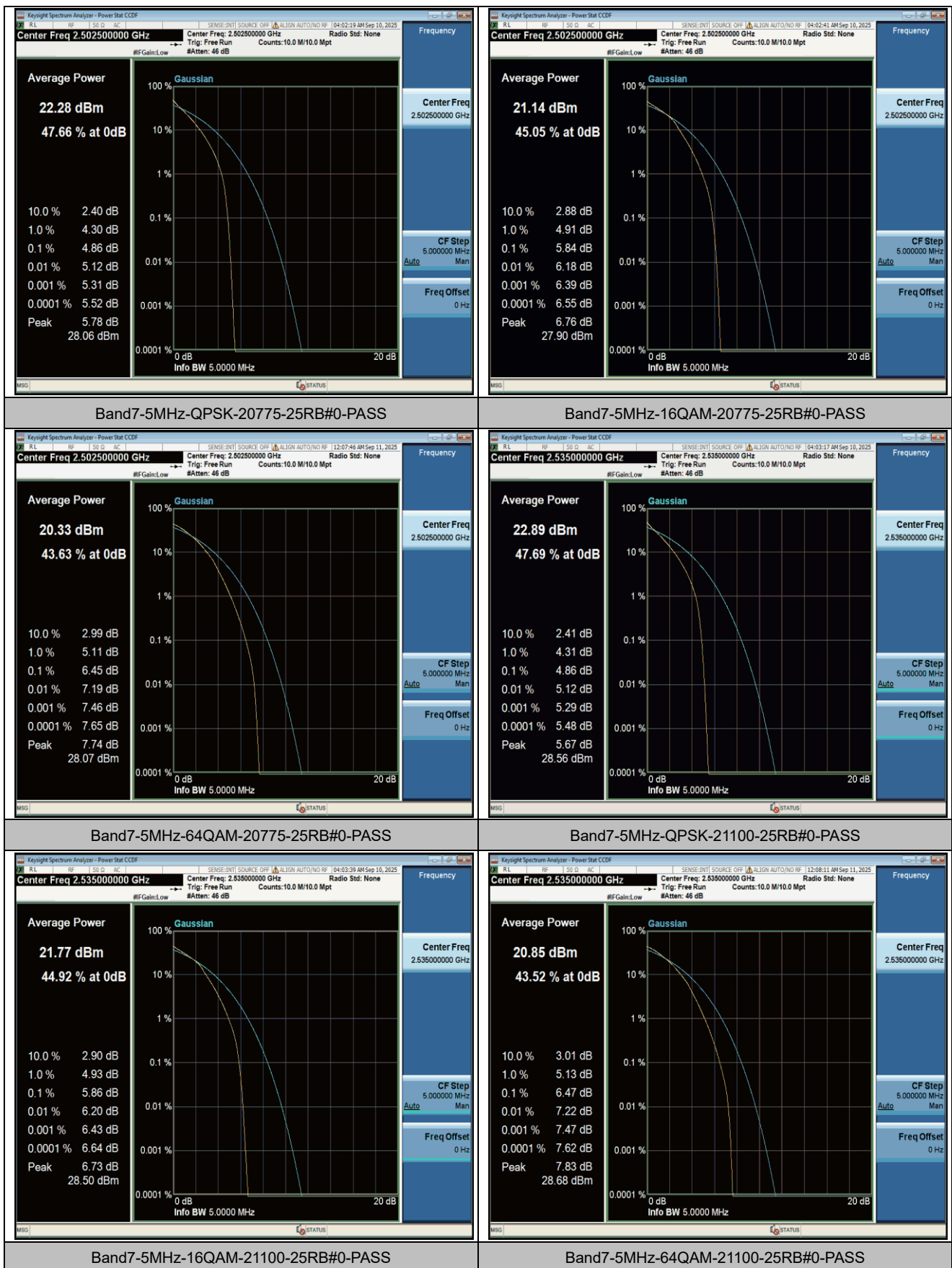
Band7	20MHz	QPSK	21100	100RB#0	22.03	19.33	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.04	19.34	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.1	19.4	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.12	19.42	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.25	18.55	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.46	18.76	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.32	18.62	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.22	18.52	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.23	17.53	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.47	20.77	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.44	20.74	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.78	20.08	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.29	19.59	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.33	19.63	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.28	19.58	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.99	19.29	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.3	18.6	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.46	18.76	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.4	18.7	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.26	18.56	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.23	17.53	33	PASS

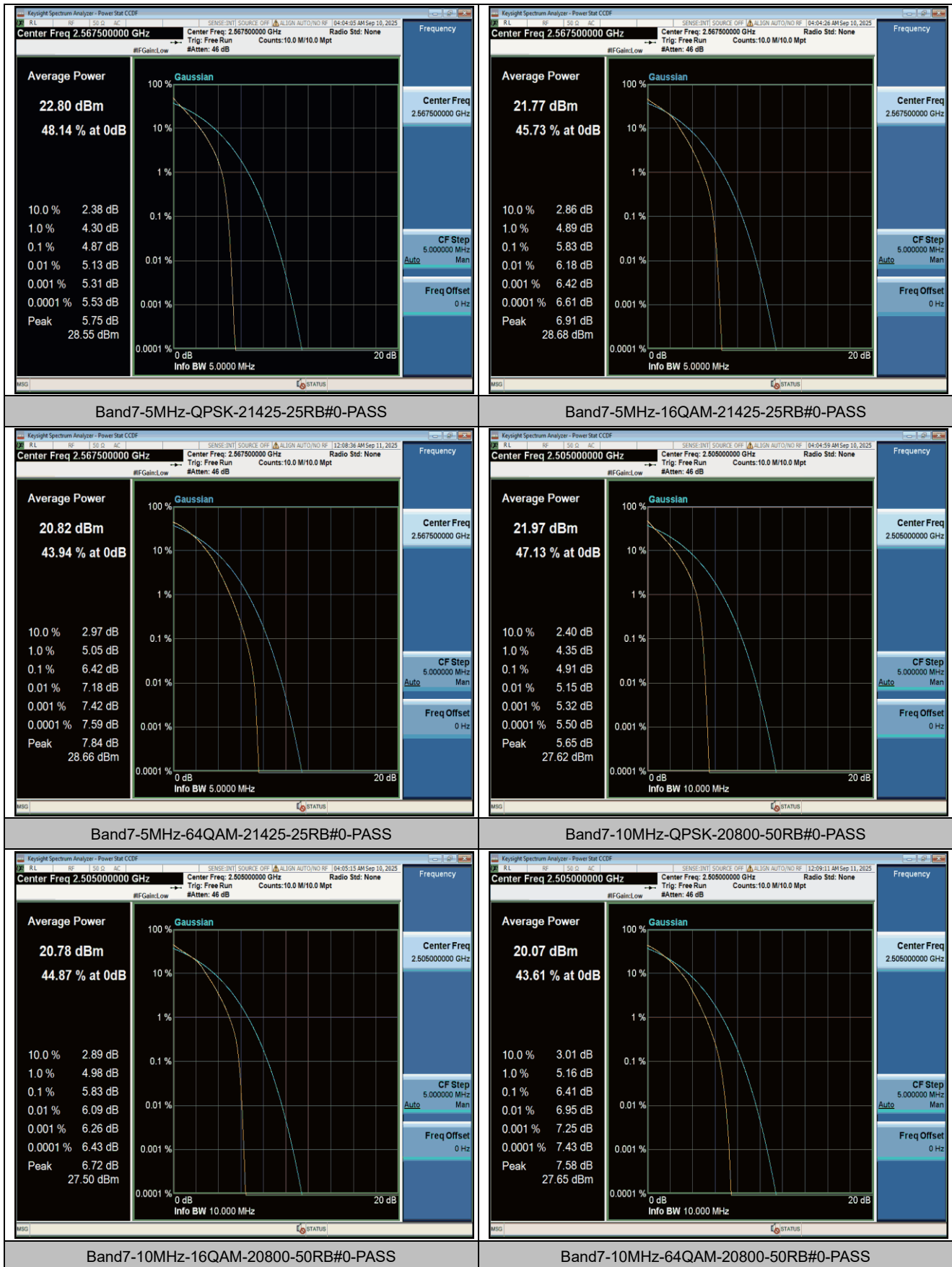
Peak-to-Average Ratio(CCDF)

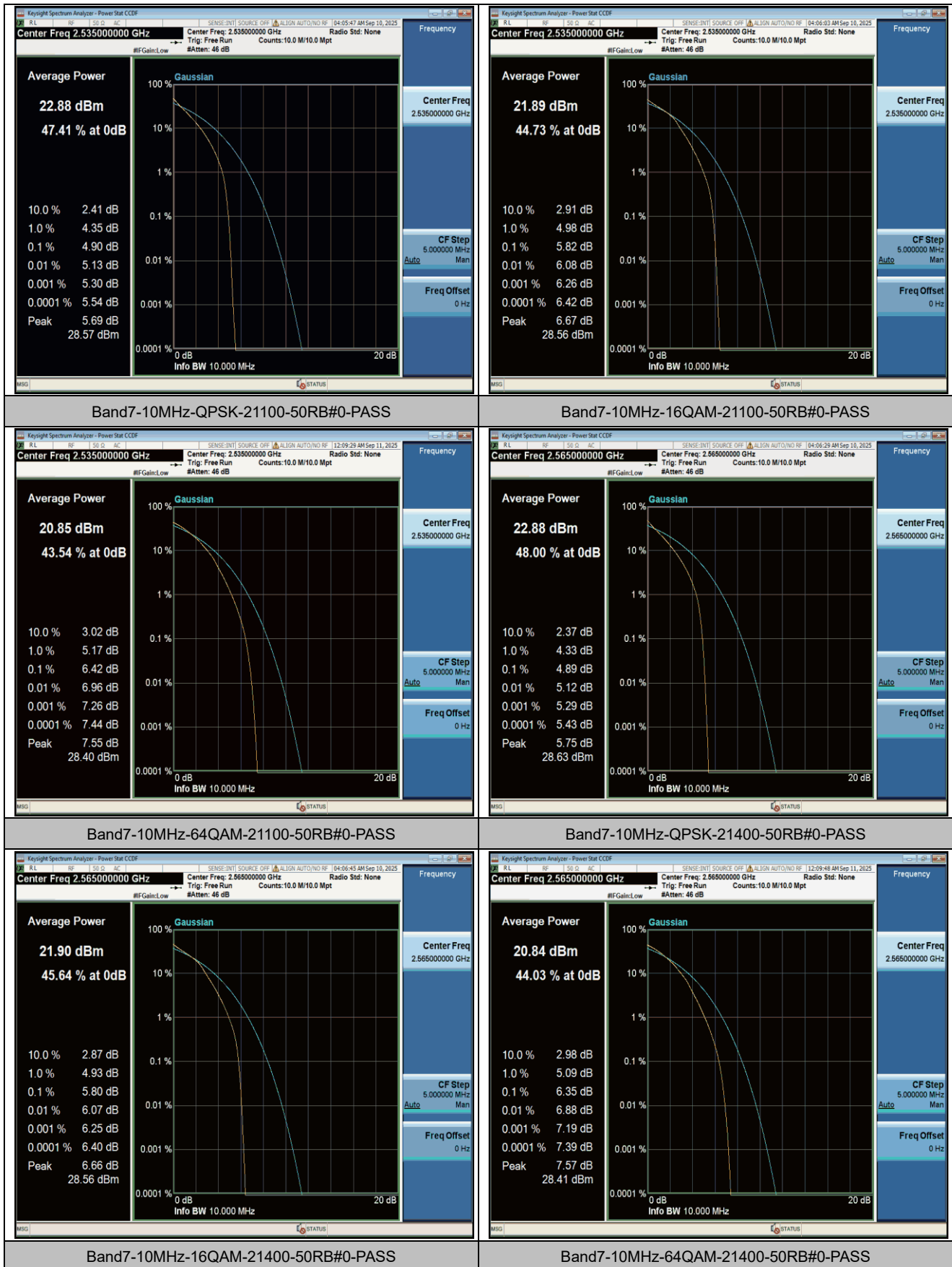
Test Result

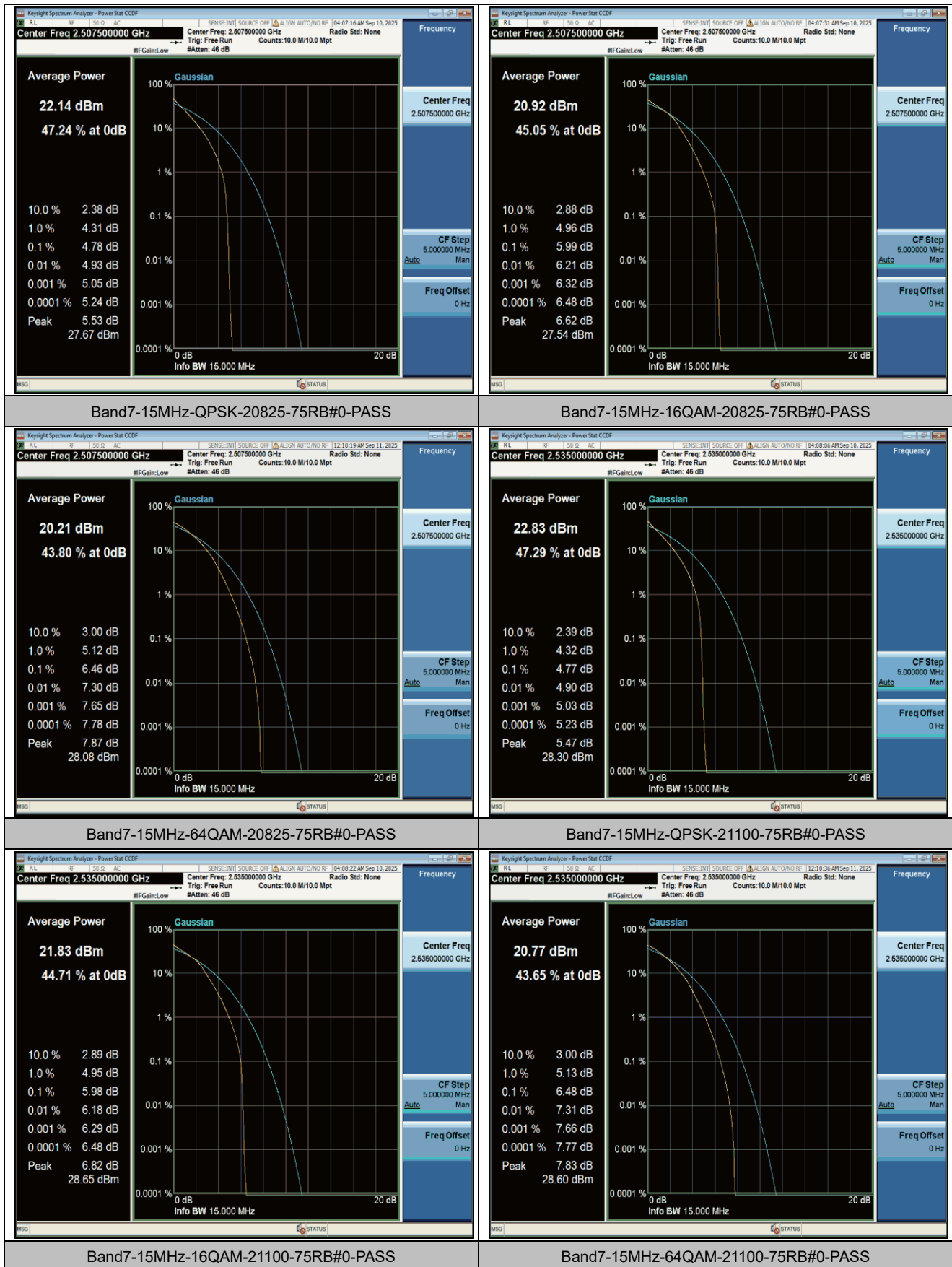
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.86	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.84	13	PASS
Band7	5MHz	64QAM	20775	25RB#0	6.45	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.86	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.86	13	PASS
Band7	5MHz	64QAM	21100	25RB#0	6.47	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.87	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.83	13	PASS
Band7	5MHz	64QAM	21425	25RB#0	6.42	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.91	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.83	13	PASS
Band7	10MHz	64QAM	20800	50RB#0	6.41	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.90	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.82	13	PASS
Band7	10MHz	64QAM	21100	50RB#0	6.42	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.89	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.80	13	PASS
Band7	10MHz	64QAM	21400	50RB#0	6.35	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	4.78	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.99	13	PASS
Band7	15MHz	64QAM	20825	75RB#0	6.46	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.77	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.98	13	PASS
Band7	15MHz	64QAM	21100	75RB#0	6.48	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	4.76	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.97	13	PASS
Band7	15MHz	64QAM	21375	75RB#0	6.44	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	4.67	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.70	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.32	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.71	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.73	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.36	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.67	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.71	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.32	13	PASS

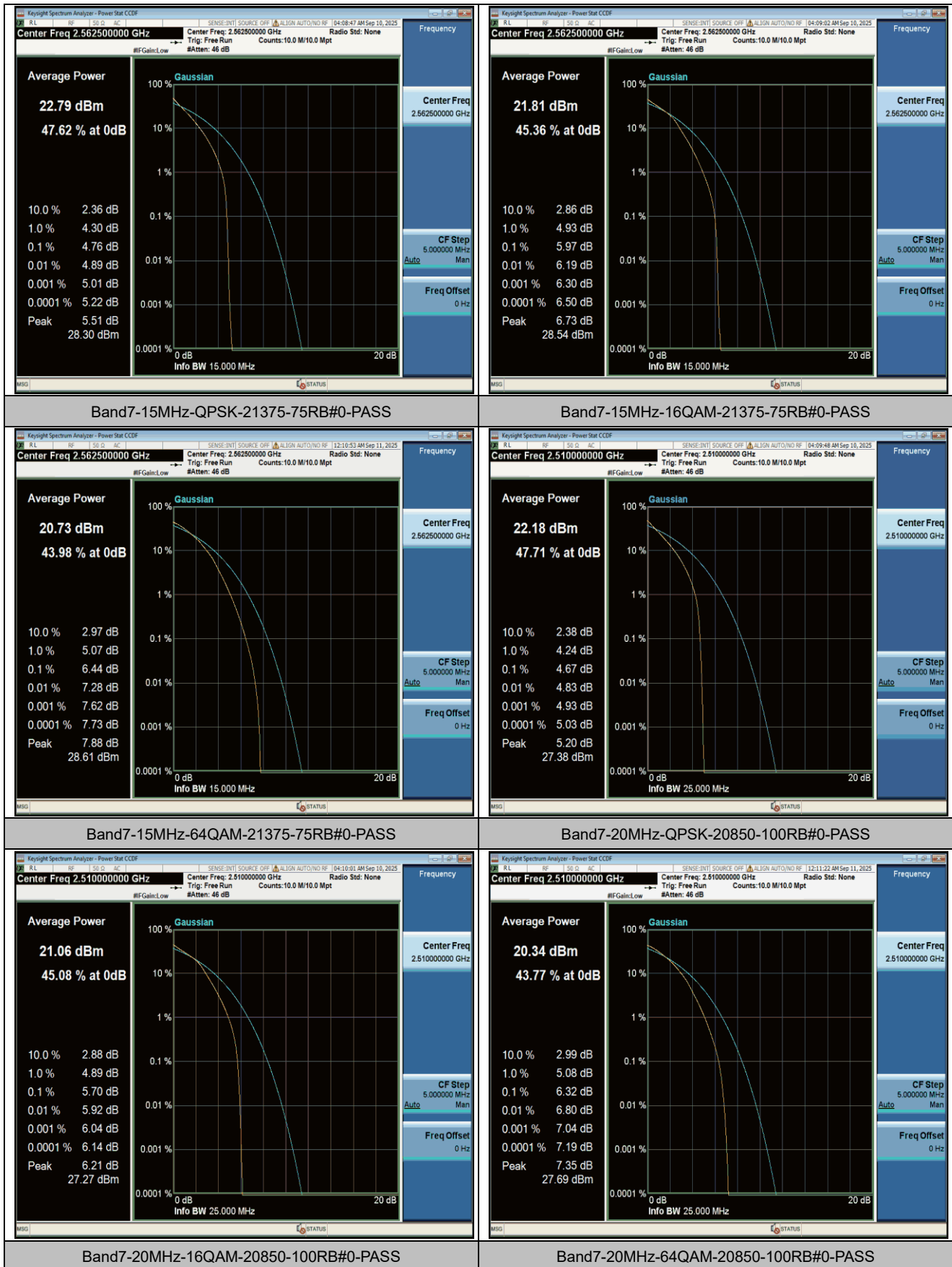
Test Graphs

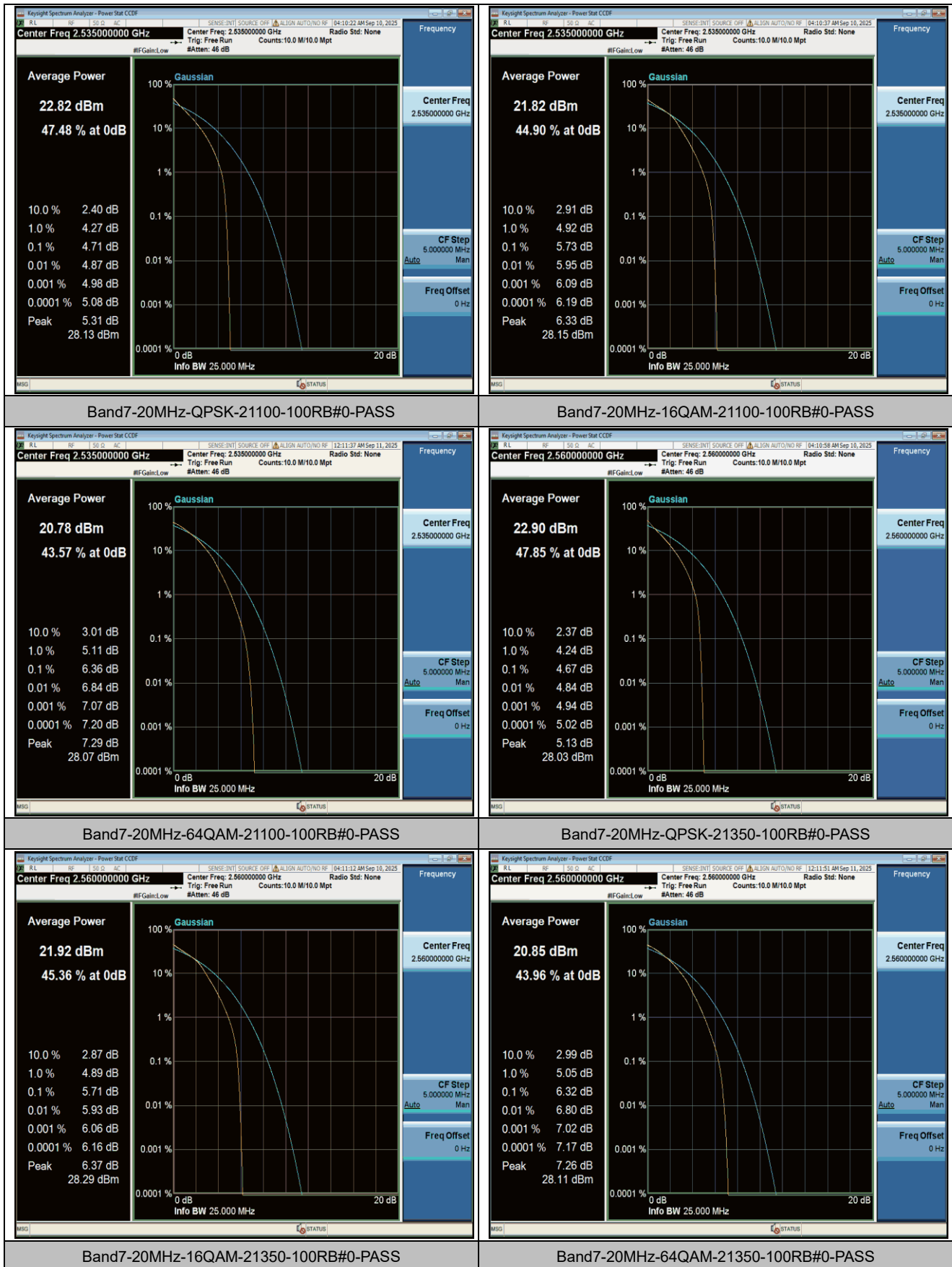










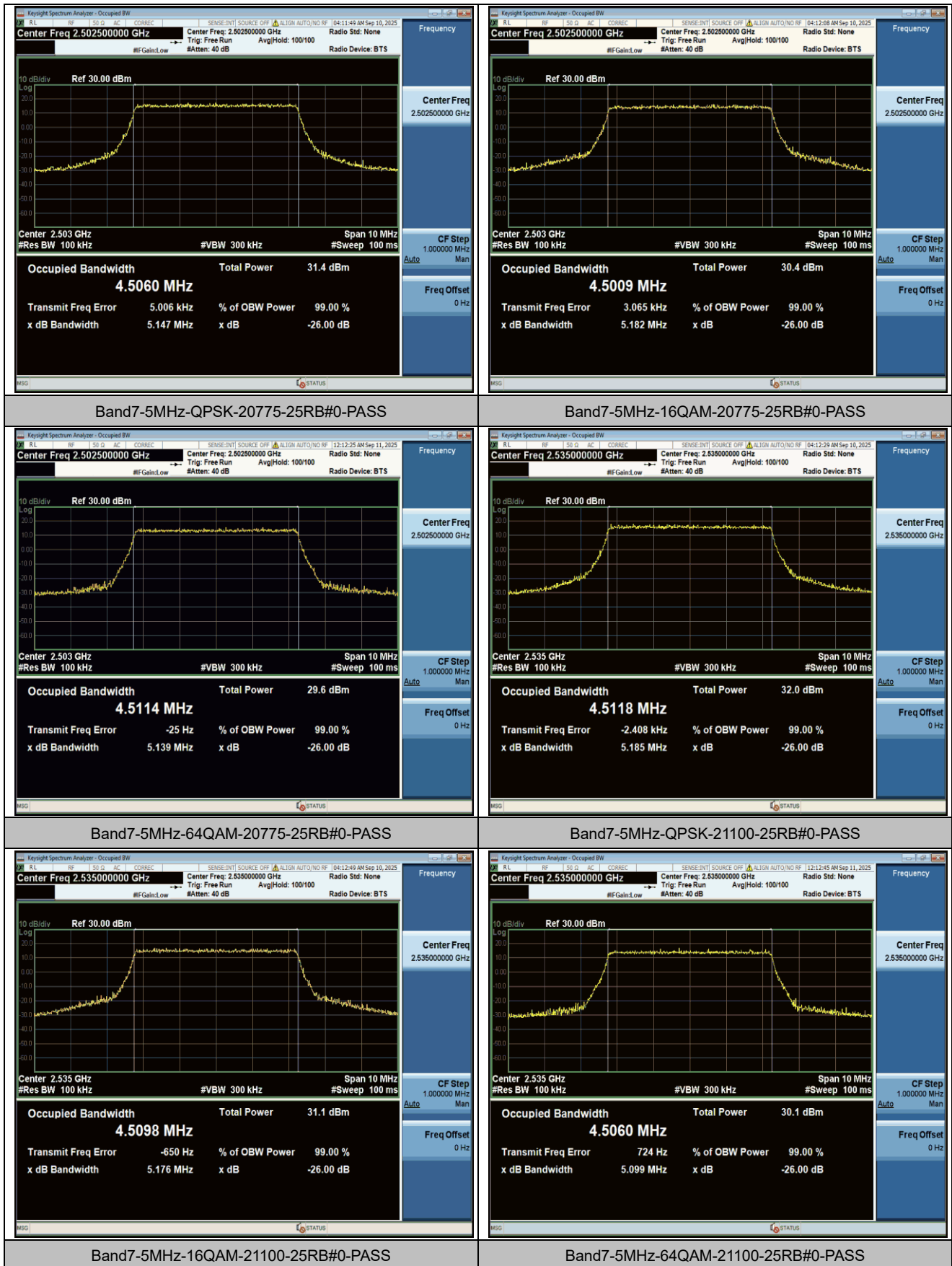


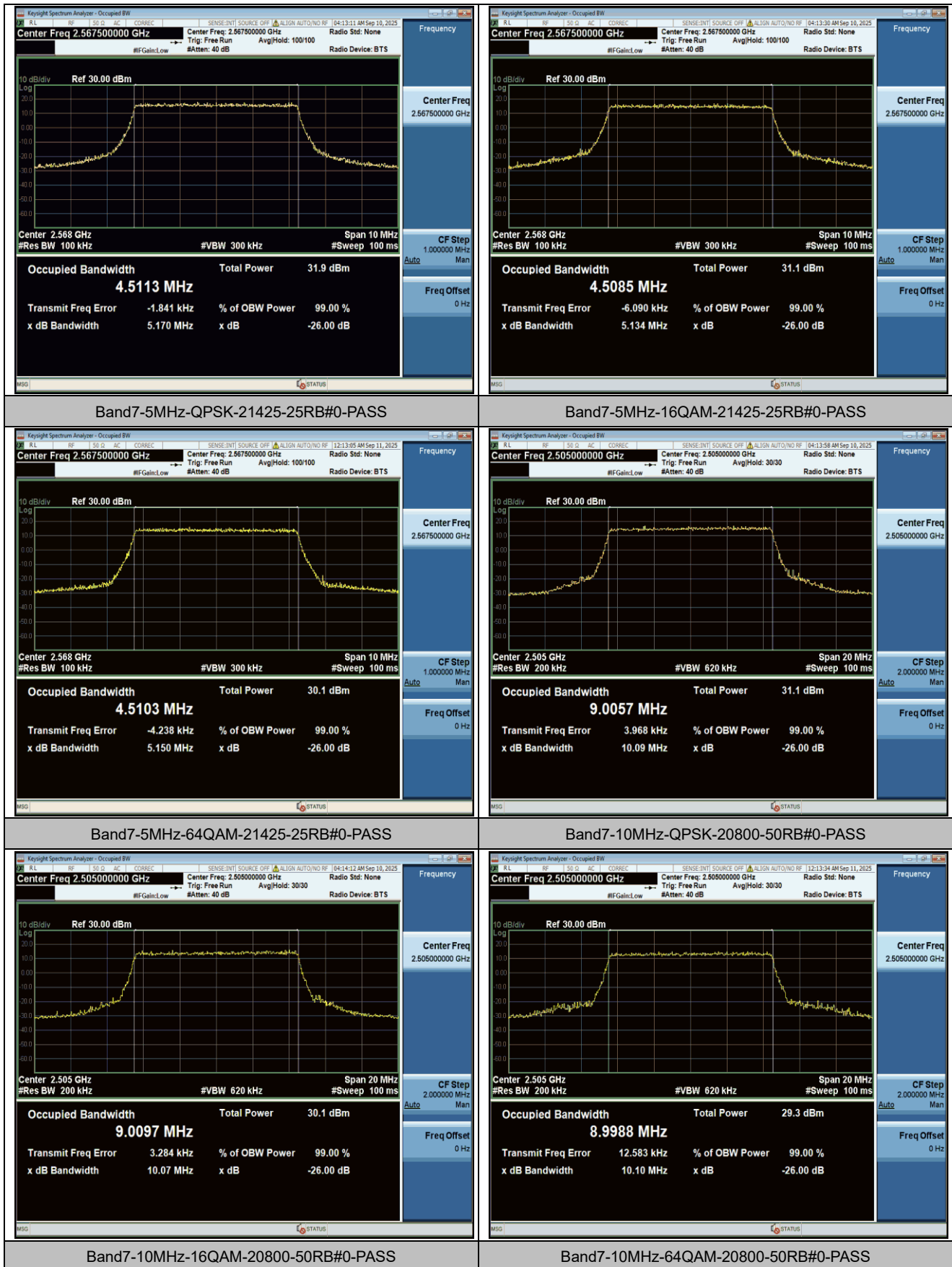
26dB Bandwidth and Occupied Bandwidth

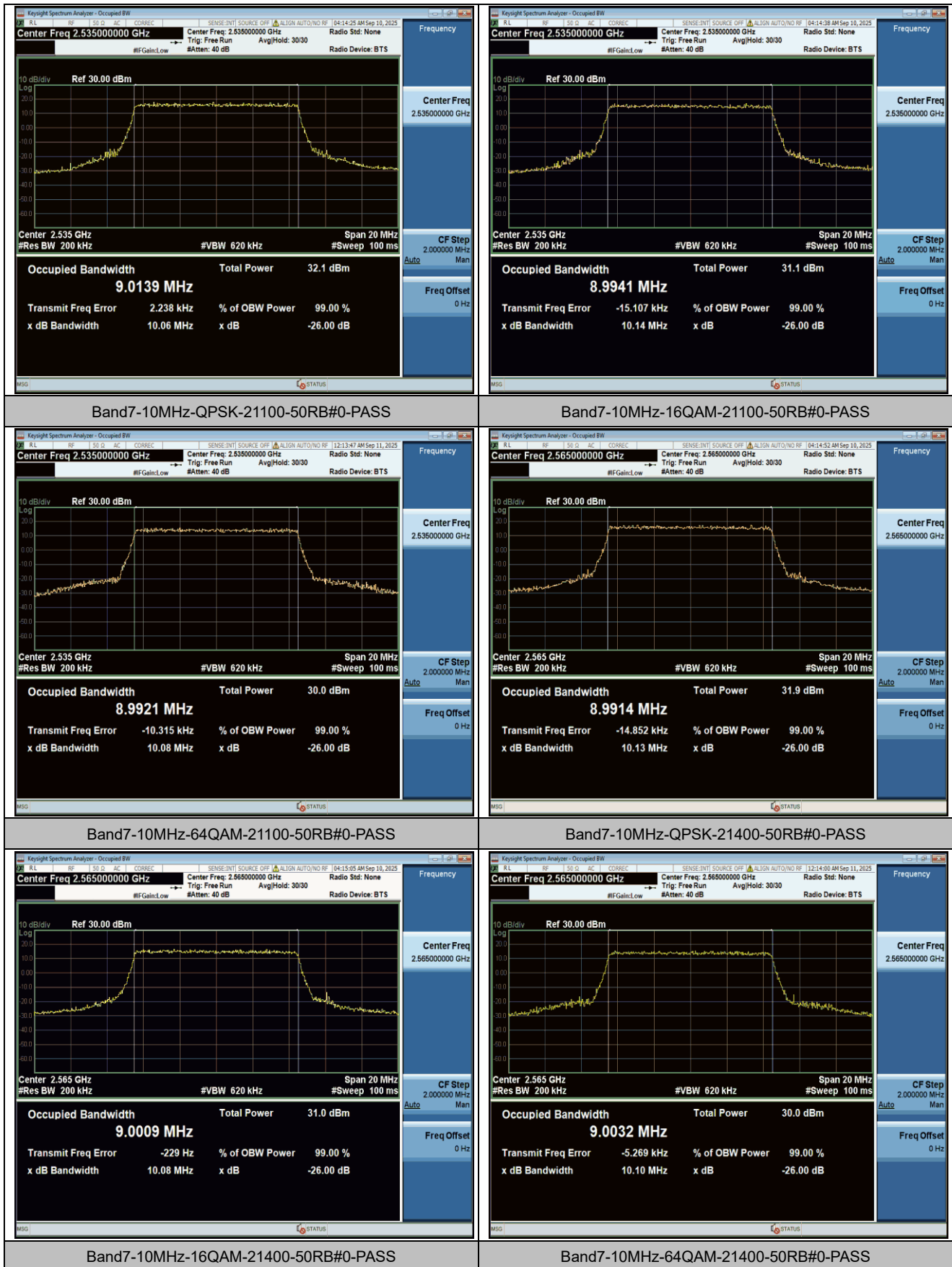
Test Result

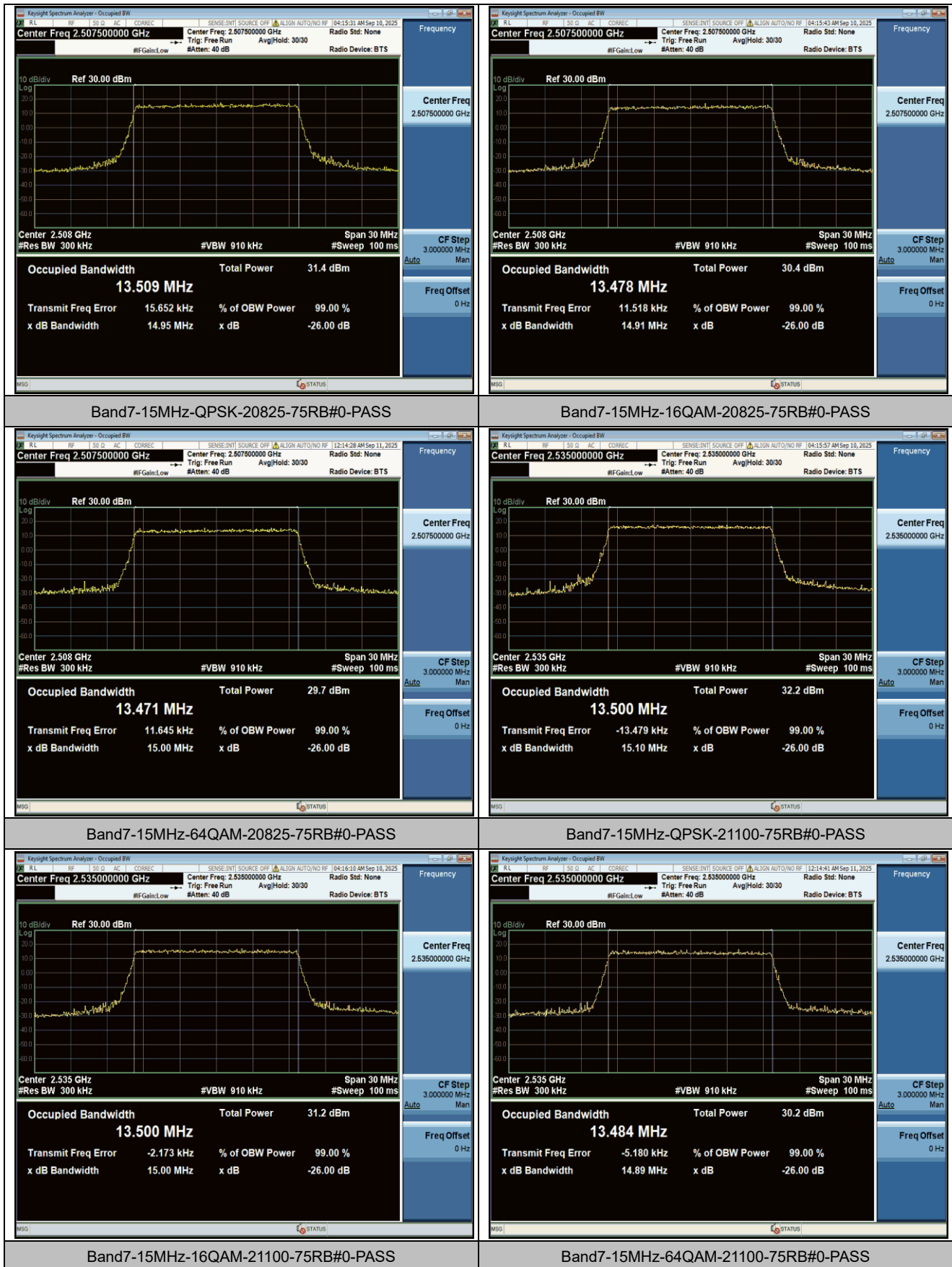
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5060	5.147	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5009	5.182	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.5114	5.139	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5118	5.185	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5098	5.176	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.5060	5.099	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5113	5.170	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5085	5.134	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.5103	5.150	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0057	10.09	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0097	10.07	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9988	10.10	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.0139	10.06	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9941	10.14	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.9921	10.08	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9914	10.13	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0009	10.08	PASS
Band7	10MHz	64QAM	21400	50RB#0	9.0032	10.10	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.509	14.95	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.478	14.91	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.471	15.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.500	15.10	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.500	15.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.484	14.89	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.492	15.08	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.488	14.88	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.465	14.89	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.928	20.06	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.944	19.73	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.972	19.49	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.996	19.84	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.994	19.93	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.981	19.78	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.941	19.72	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.953	19.84	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.935	19.69	PASS

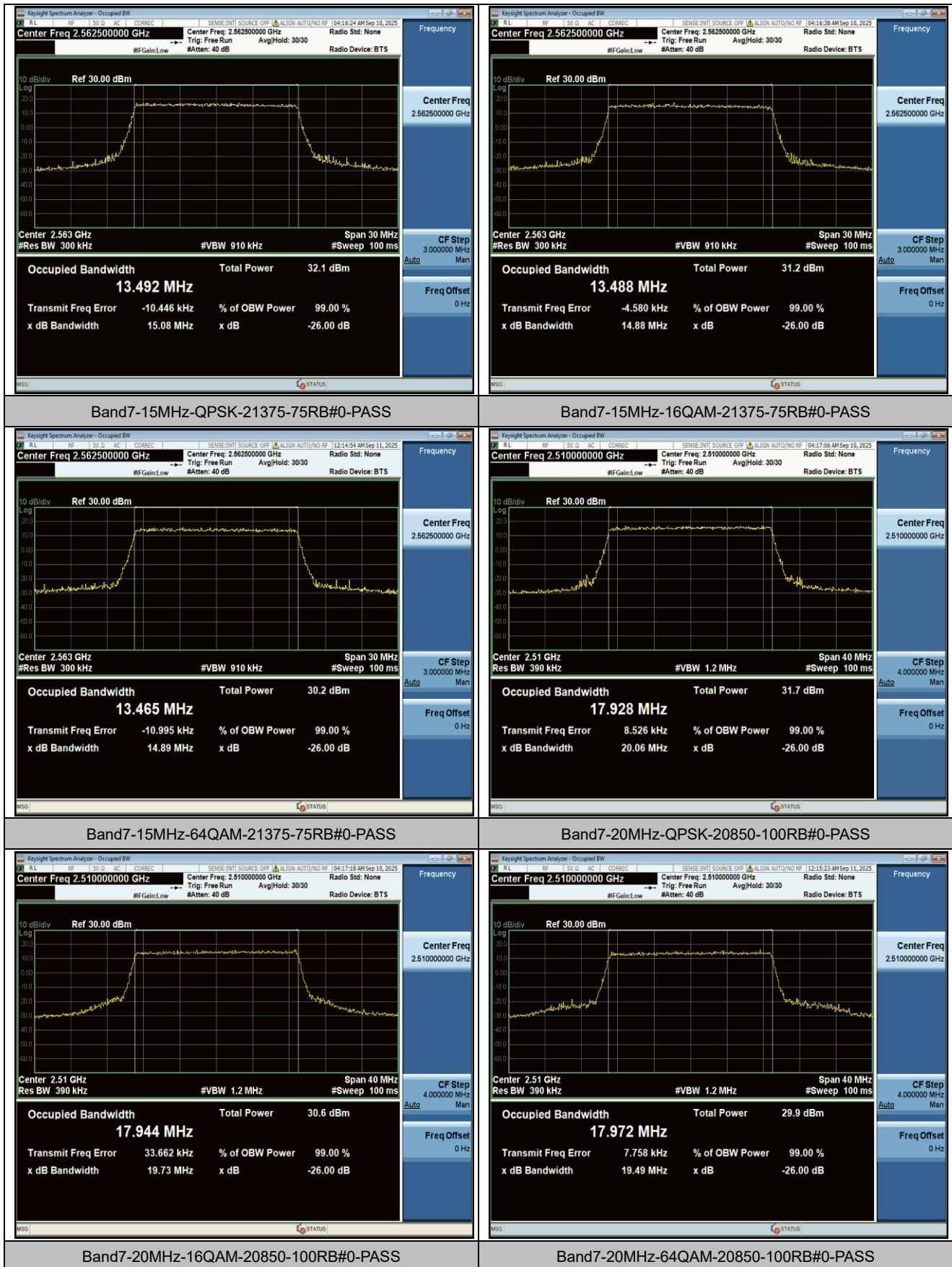
Test Graphs

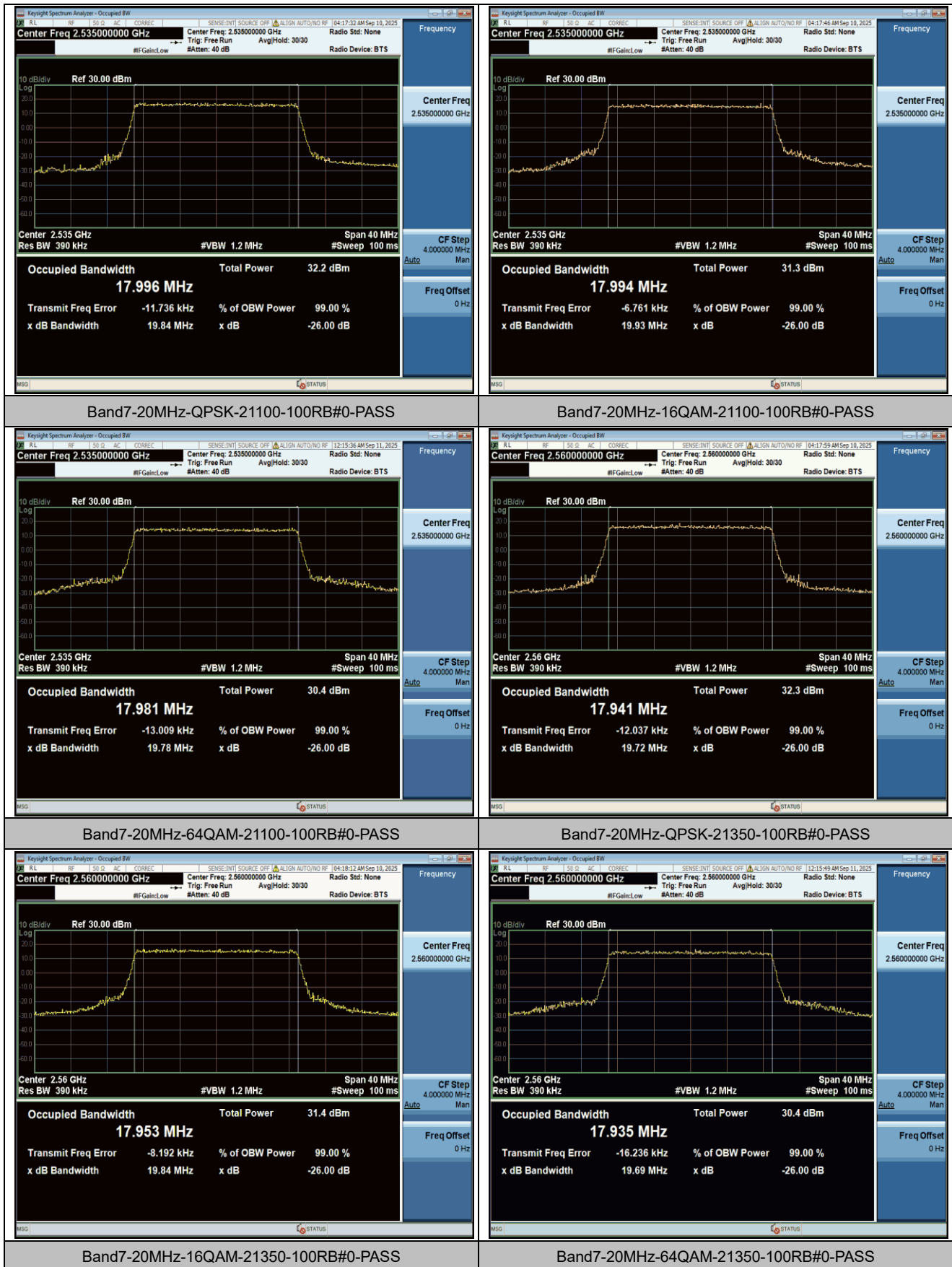






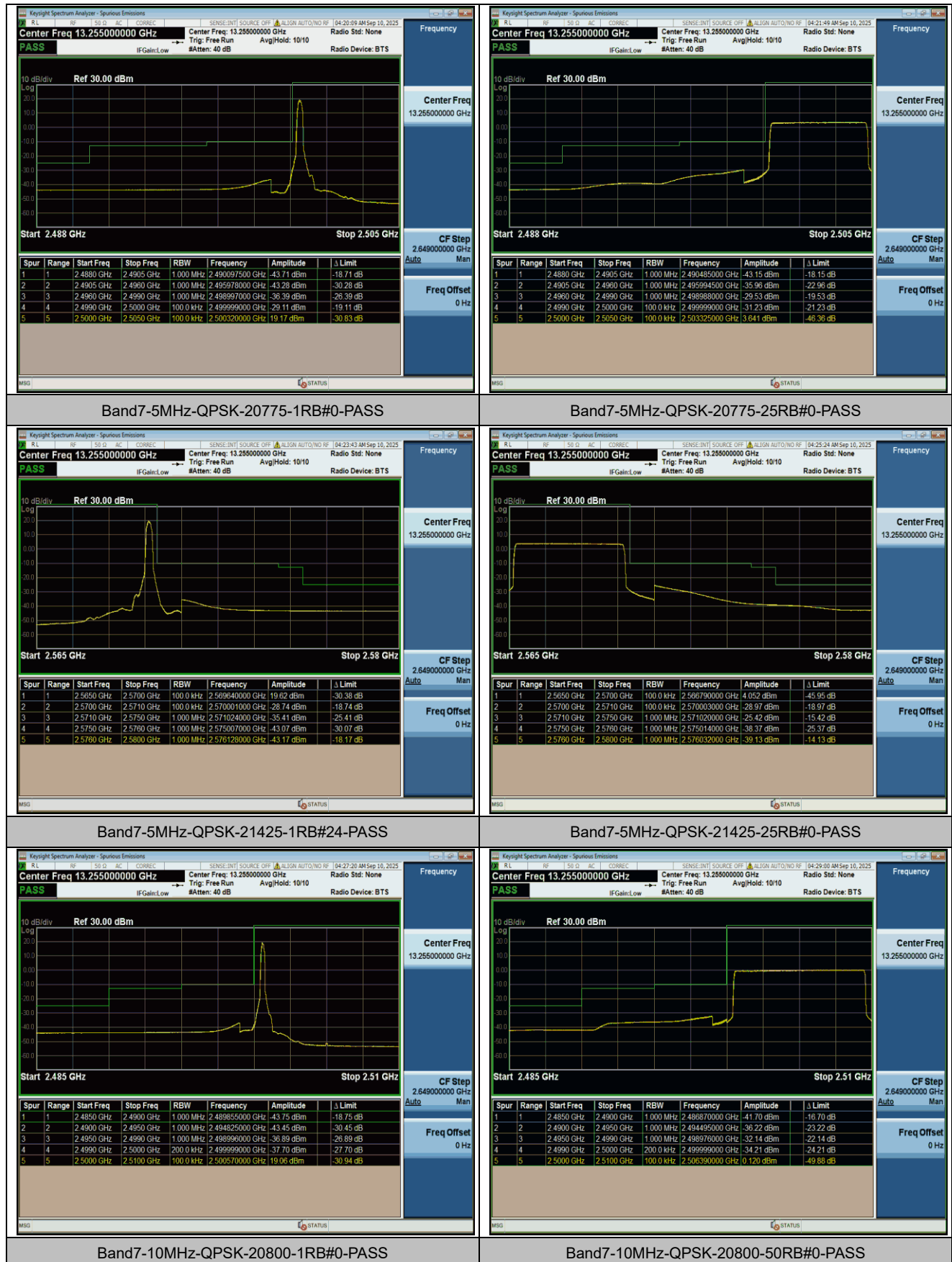


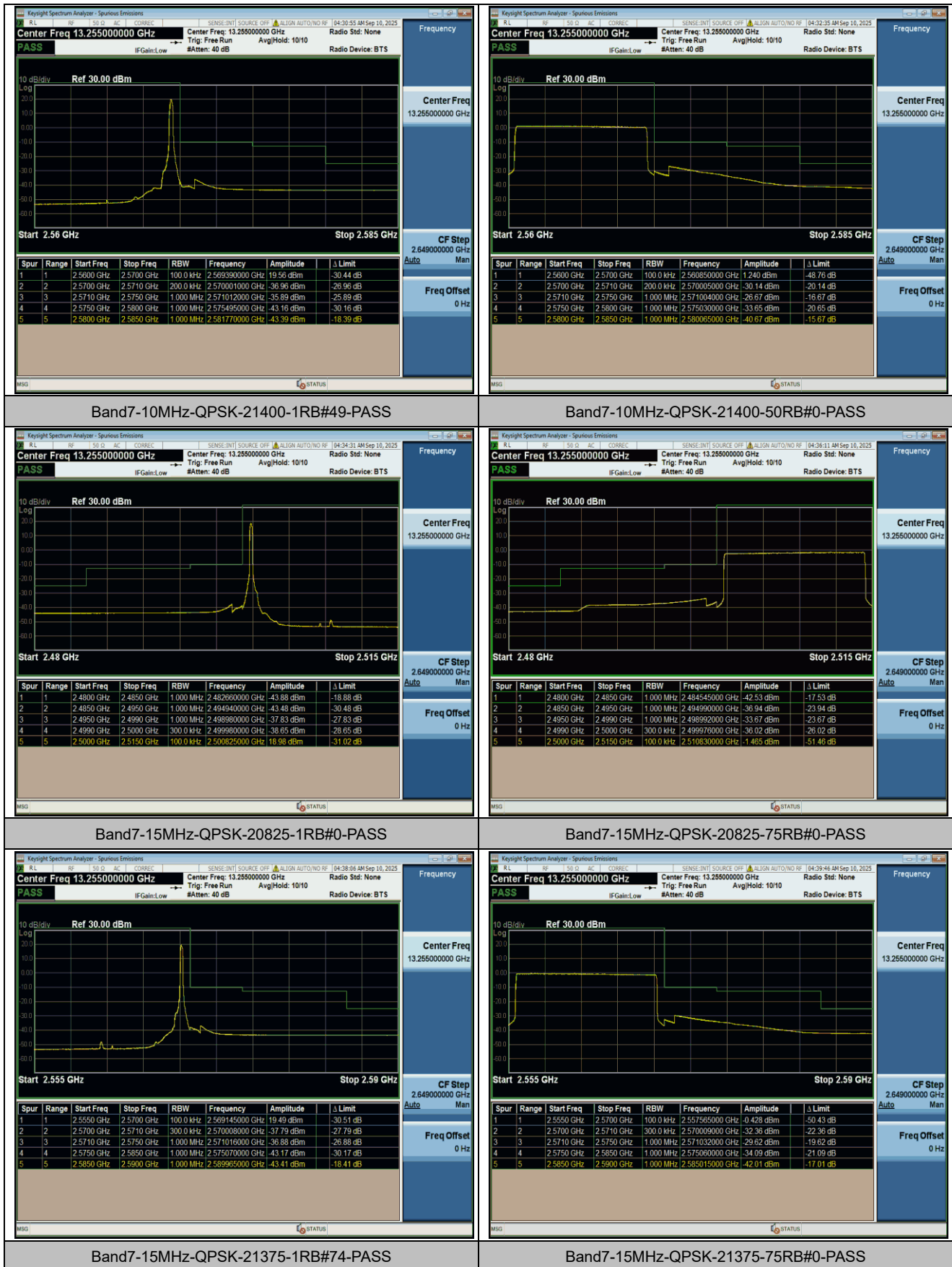


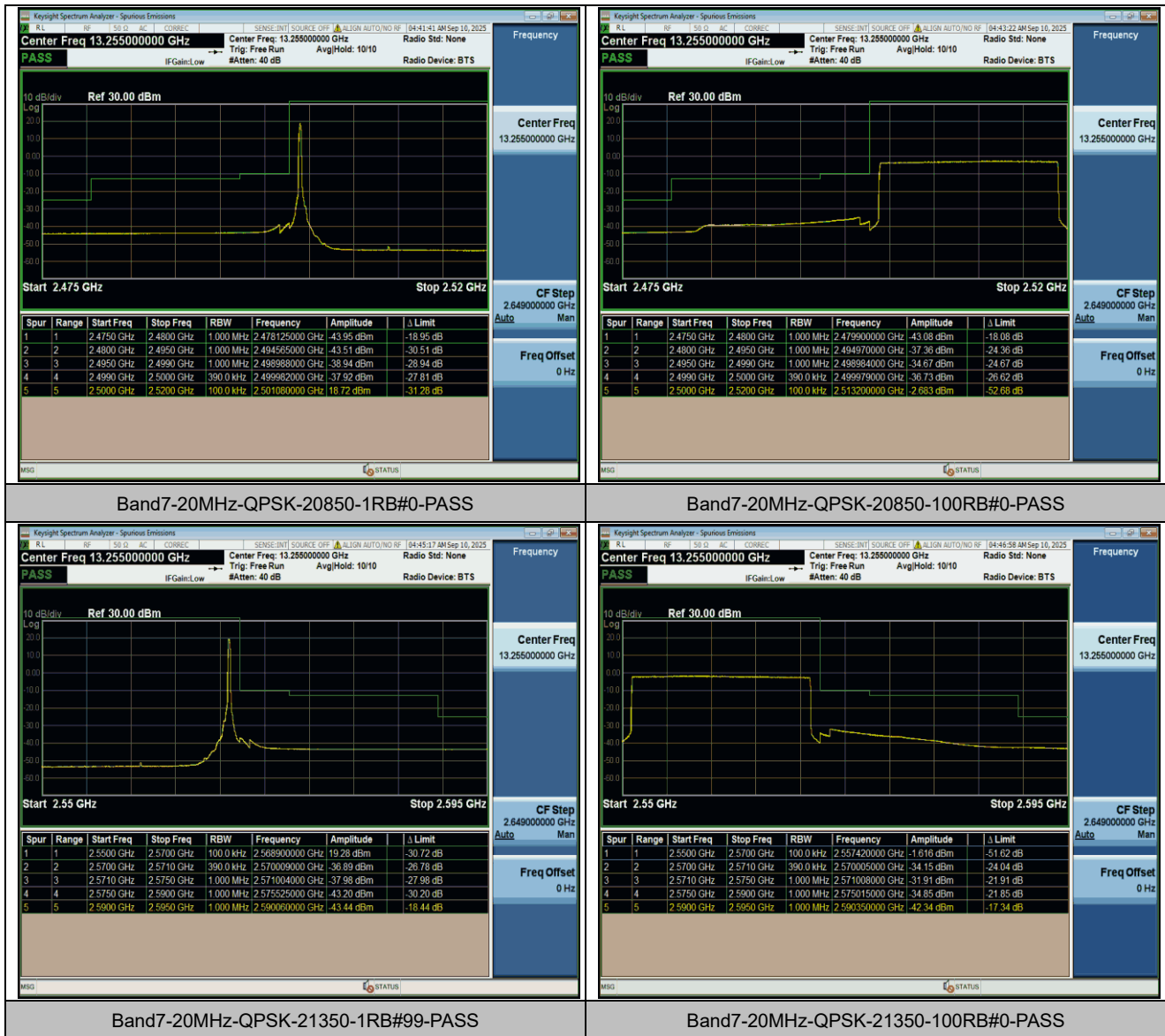


Band Edge

Test Graphs



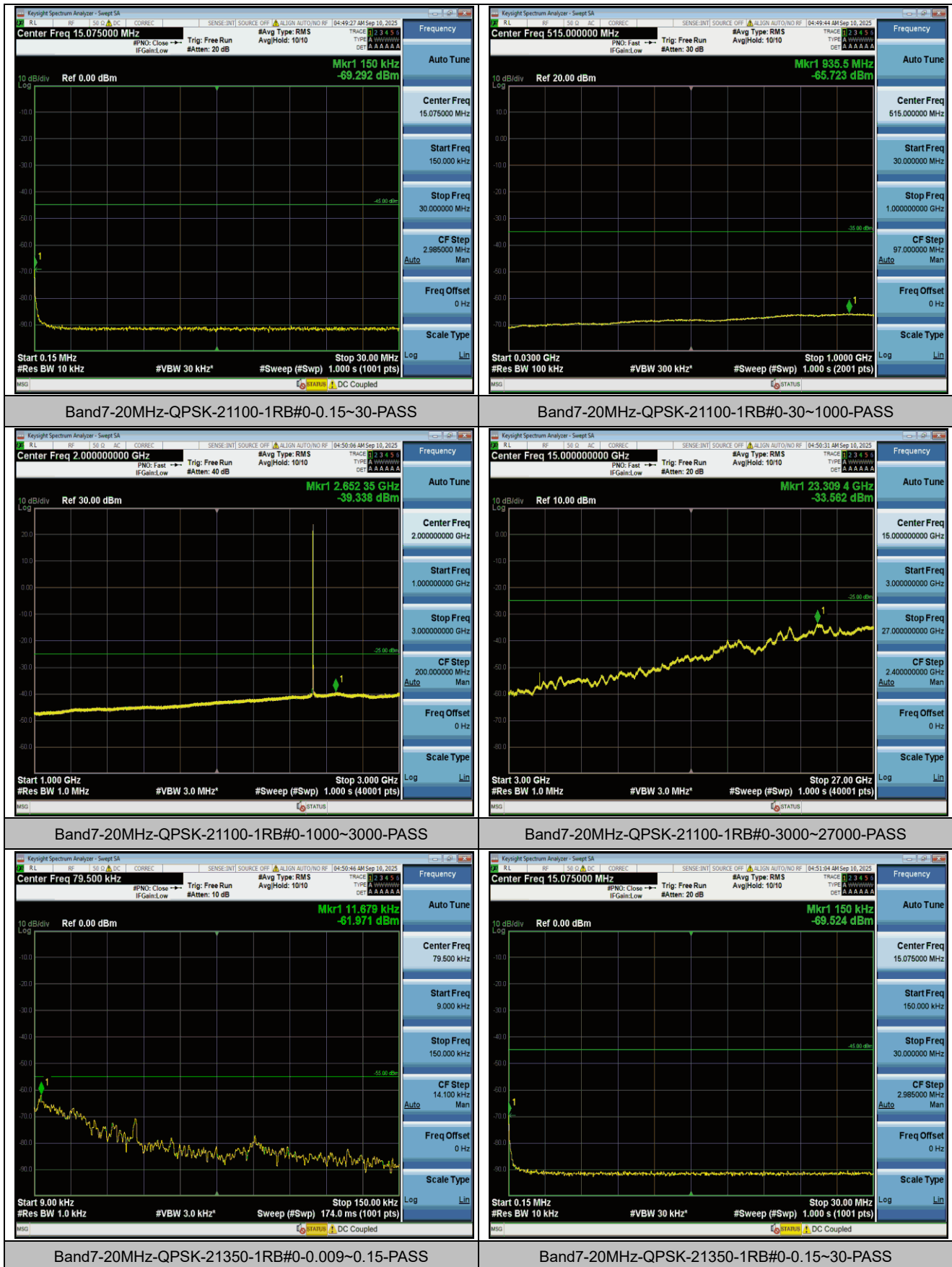




Conducted Spurious Emission

Test Graphs







Band7-20MHz-QPSK-21350-1RB#0-30~1000-PASS



Band7-20MHz-QPSK-21350-1RB#0-1000~3000-PASS



Band7-20MHz-QPSK-21350-1RB#0-3000~27000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-0.20	-0.000079	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-0.50	-0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.10	-0.000434	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	0.30	0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-0.10	-0.000039	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-0.30	-0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	1.00	0.000394	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.10	-0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-2.00	-0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.30	-0.000118	PASS

~The End~