

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	23.72	21.7	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.51	21.49	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.55	21.53	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.50	20.48	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.69	19.67	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.67	19.65	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.66	19.64	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.84	19.82	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.77	21.75	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.79	21.77	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.84	21.82	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.64	20.62	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.46	20.44	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.38	20.36	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.36	20.34	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.89	19.87	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.91	21.89	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.86	21.84	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.86	21.84	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.67	20.65	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.55	20.53	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.49	20.47	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.56	20.54	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.90	19.88	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.63	21.61	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.55	21.53	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.70	21.68	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.57	20.55	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.26	20.24	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.26	20.24	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.26	20.24	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.77	19.75	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.78	21.76	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.74	21.72	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.67	21.65	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.85	20.83	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.99	19.97	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.89	19.87	33	PASS

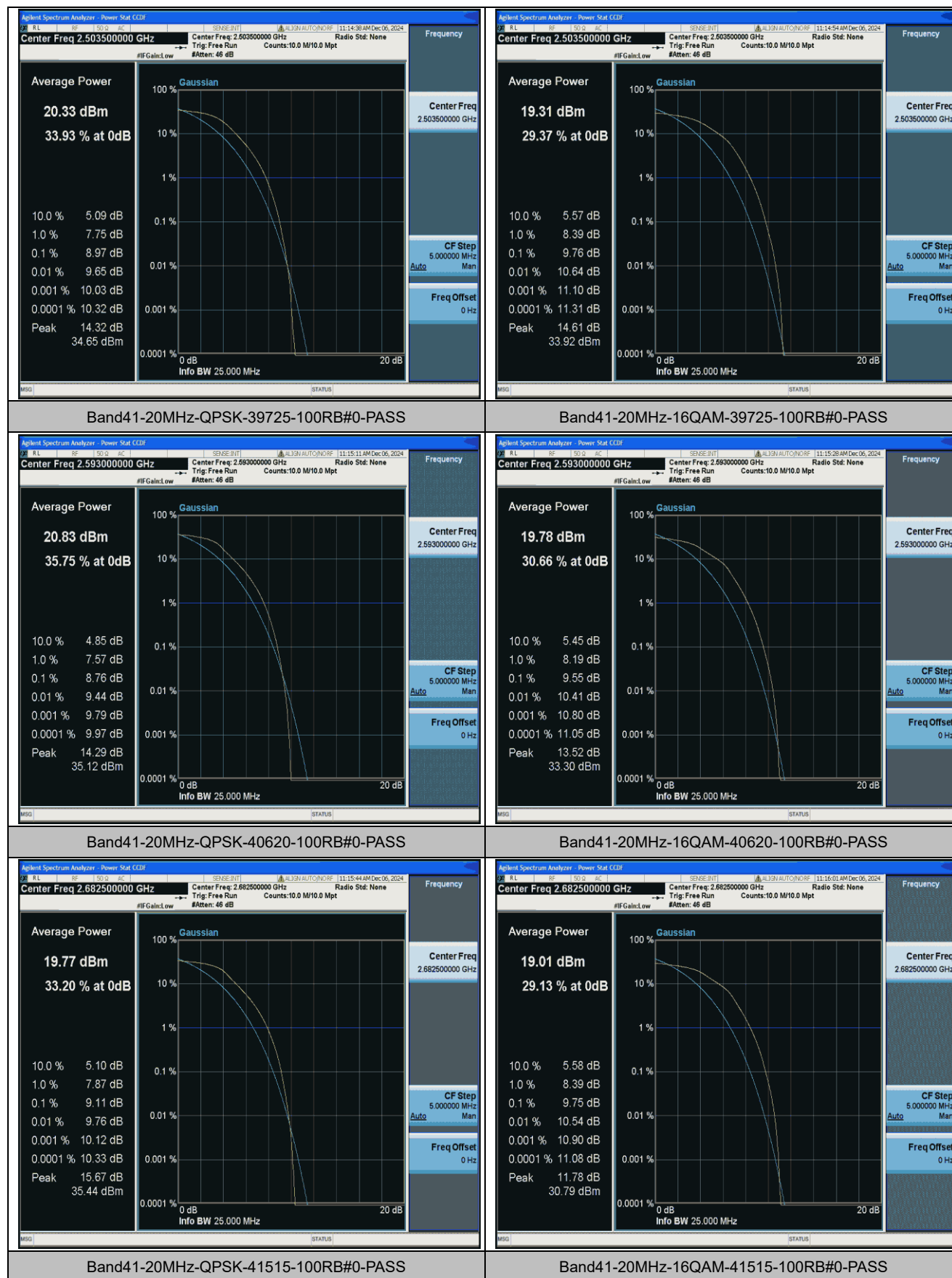
Band41	10MHz	16QAM	40620	1RB#49	21.94	19.92	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.93	19.91	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.98	21.96	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.90	21.88	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.79	21.77	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.96	20.94	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.11	20.09	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.04	20.02	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.96	19.94	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.99	19.97	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.75	21.73	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.57	21.55	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.76	21.74	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.46	20.44	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.19	20.17	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.29	20.27	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.35	20.33	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.71	19.69	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.77	21.75	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.71	21.69	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.70	21.68	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.66	20.64	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.43	20.41	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.37	20.35	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.31	20.29	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.97	19.95	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.83	21.81	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.93	21.91	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.78	21.76	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.57	20.55	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.43	20.41	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.44	20.42	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.39	20.37	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.84	19.82	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.58	21.56	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.69	21.67	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.75	21.73	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.54	20.52	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.26	20.24	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.30	20.28	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.45	20.43	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.74	19.72	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.77	21.75	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.75	21.73	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.71	21.69	33	PASS

Band41	20MHz	QPSK	40620	100RB#0	22.68	20.66	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.46	20.44	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.39	20.37	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.39	20.37	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.86	19.84	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.75	21.73	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.82	21.8	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.71	21.69	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.64	20.62	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.52	20.5	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.45	20.43	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.48	20.46	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.81	19.79	33	PASS

Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39725	100RB#0	8.97	13	PASS
Band41	20MHz	16QAM	39725	100RB#0	9.76	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.76	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.55	13	PASS
Band41	20MHz	QPSK	41515	100RB#0	9.11	13	PASS
Band41	20MHz	16QAM	41515	100RB#0	9.75	13	PASS

Test Graphs

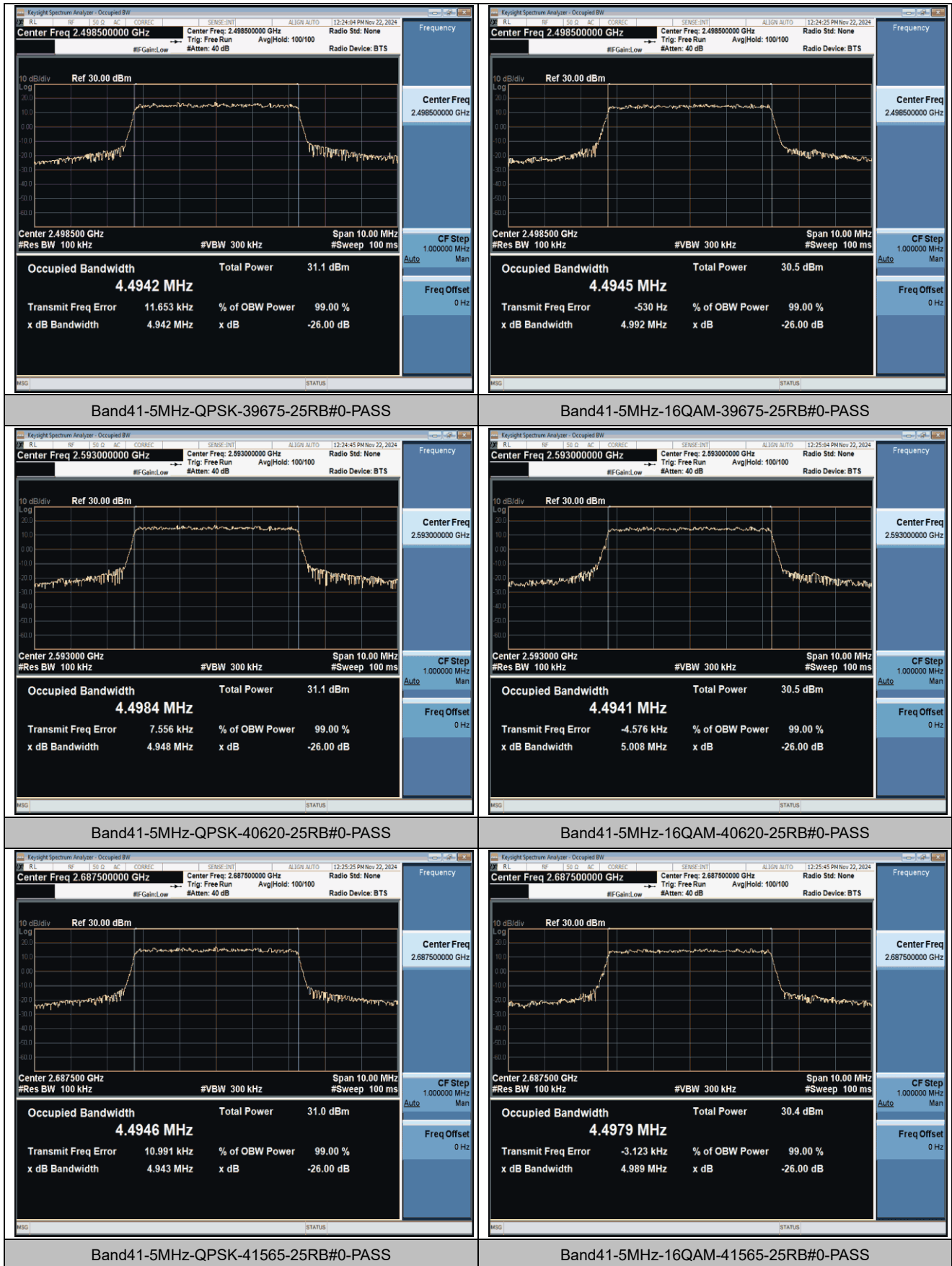


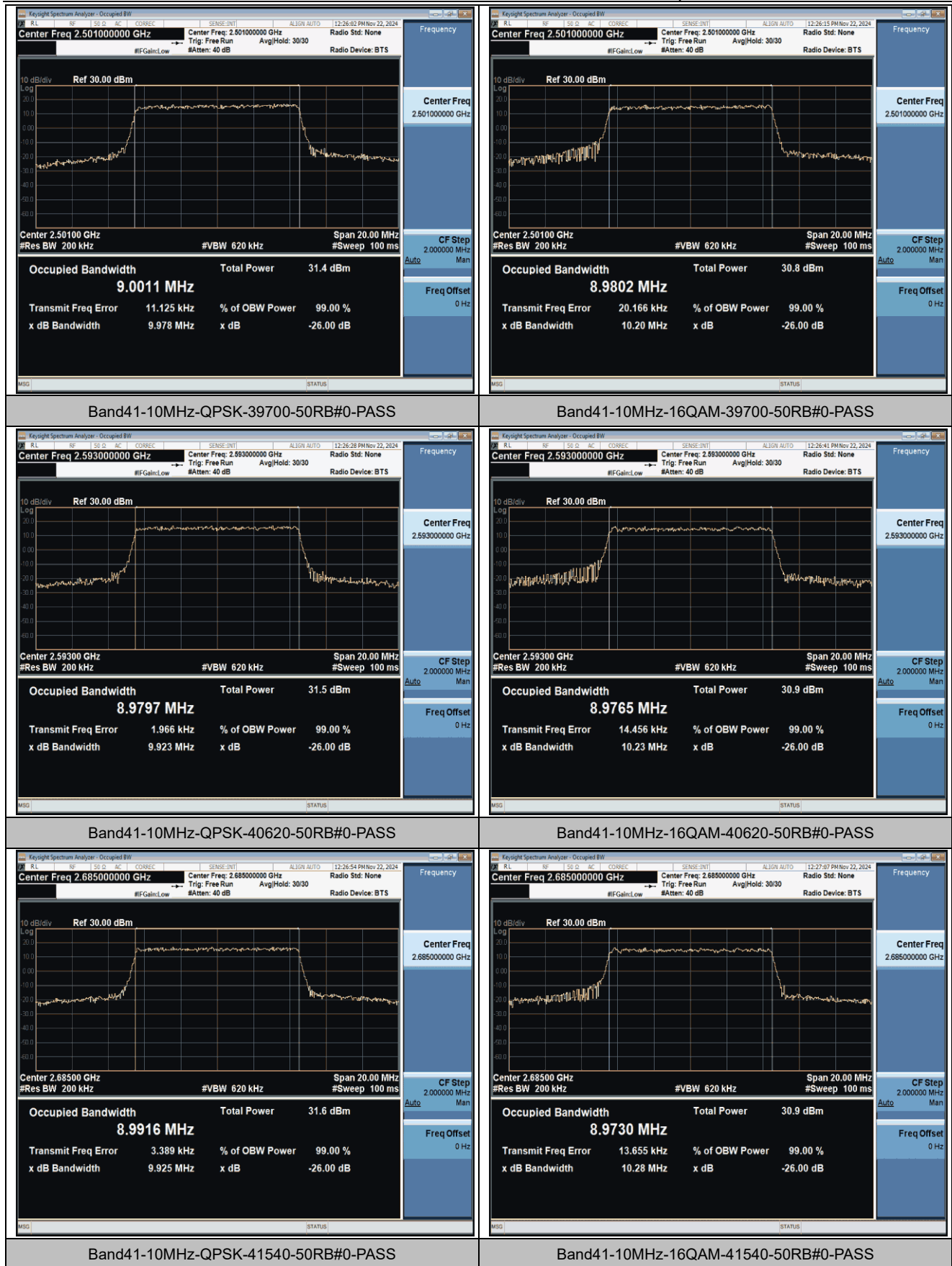
26dB Bandwidth and Occupied Bandwidth

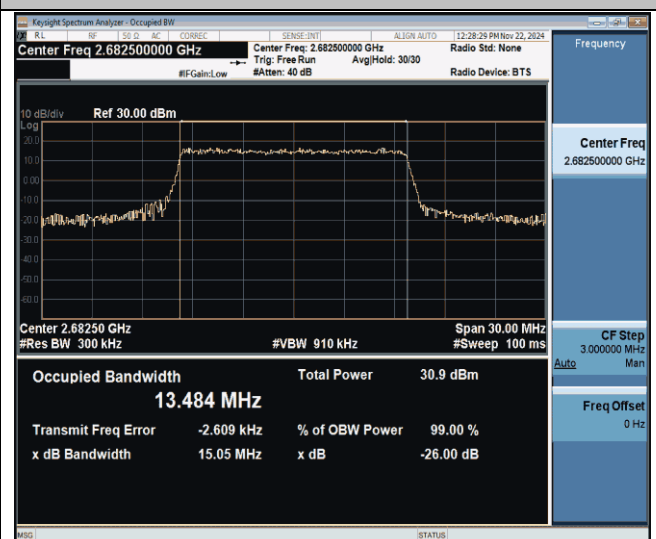
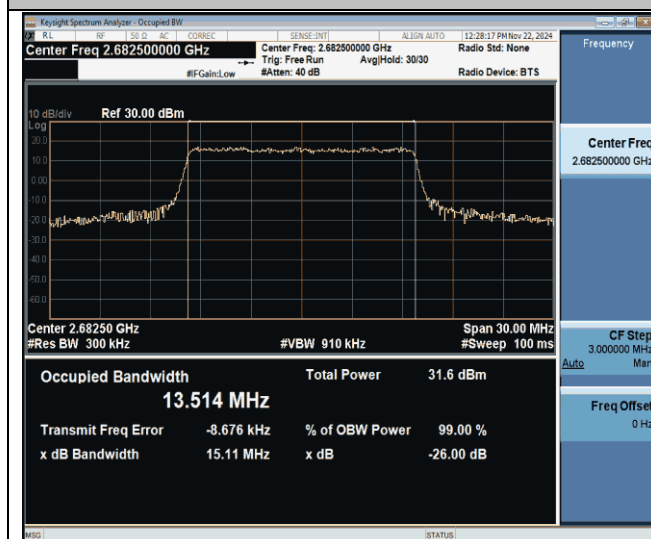
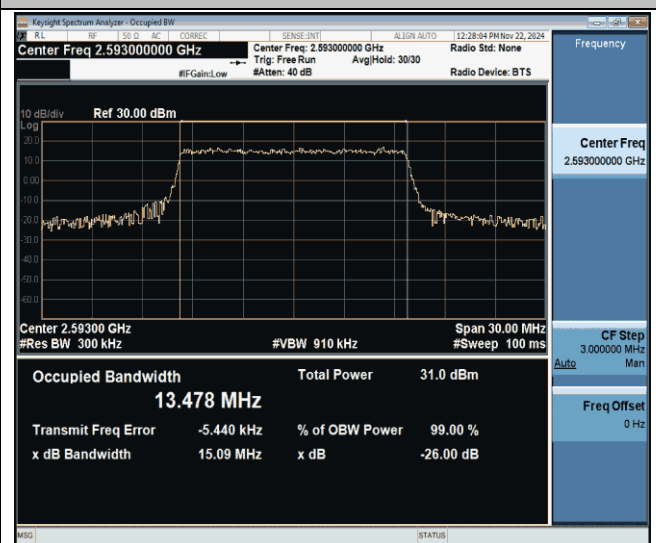
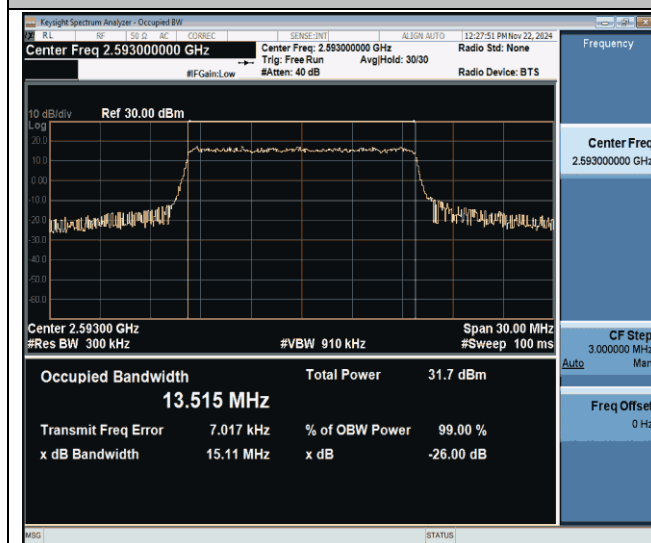
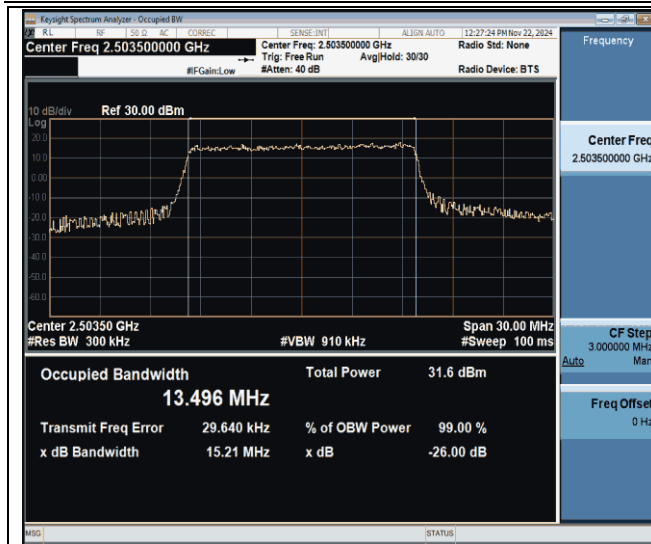
Test Result

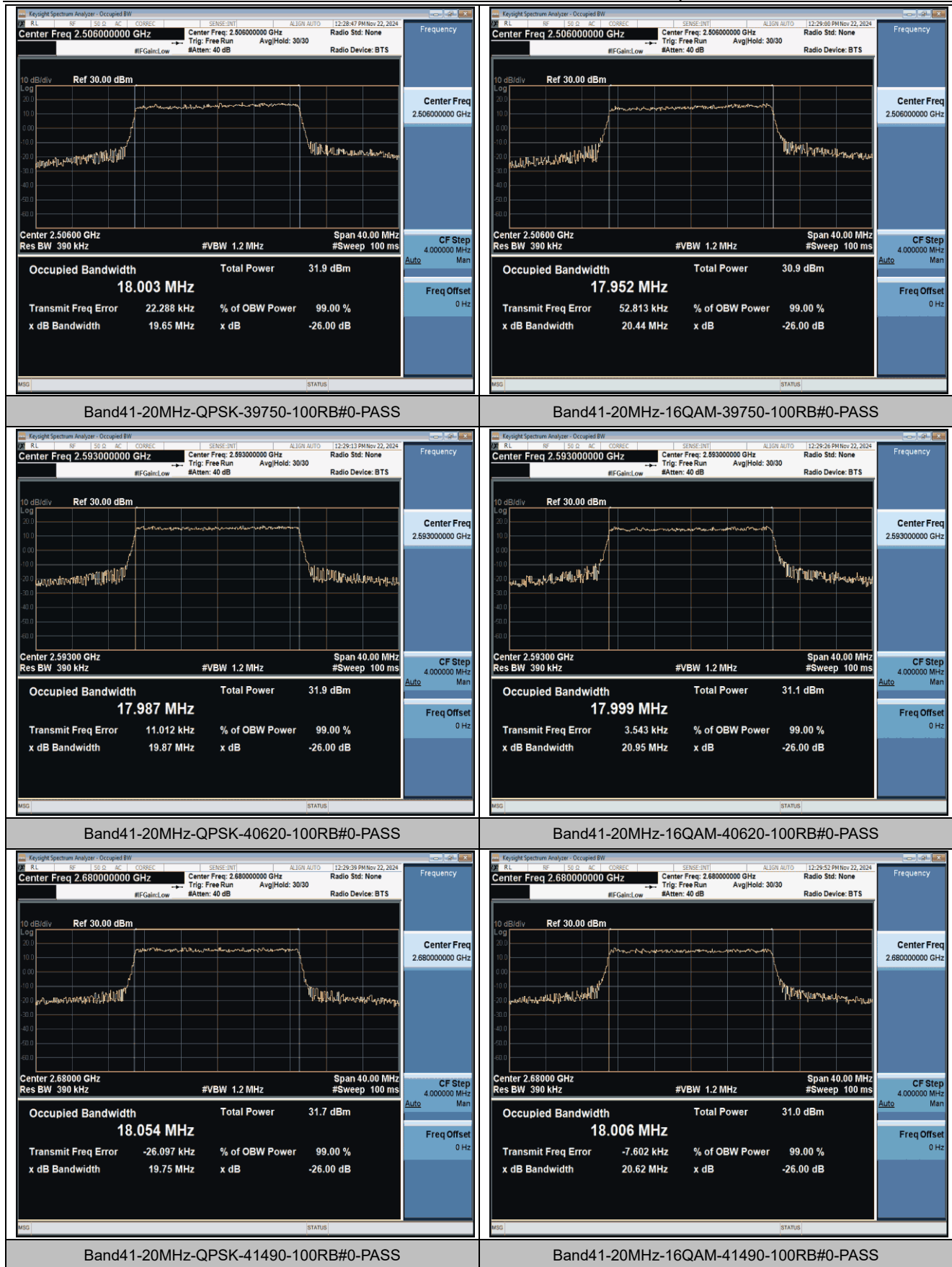
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4942	4.942	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4945	4.992	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4984	4.948	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4941	5.008	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4946	4.943	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4979	4.989	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.0011	9.978	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9802	10.20	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9797	9.923	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9765	10.23	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9916	9.925	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9730	10.28	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.496	15.21	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.474	14.81	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.515	15.11	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.478	15.09	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.514	15.11	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.484	15.05	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.003	19.65	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.952	20.44	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.987	19.87	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.999	20.95	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.054	19.75	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.006	20.62	PASS

Test Graphs



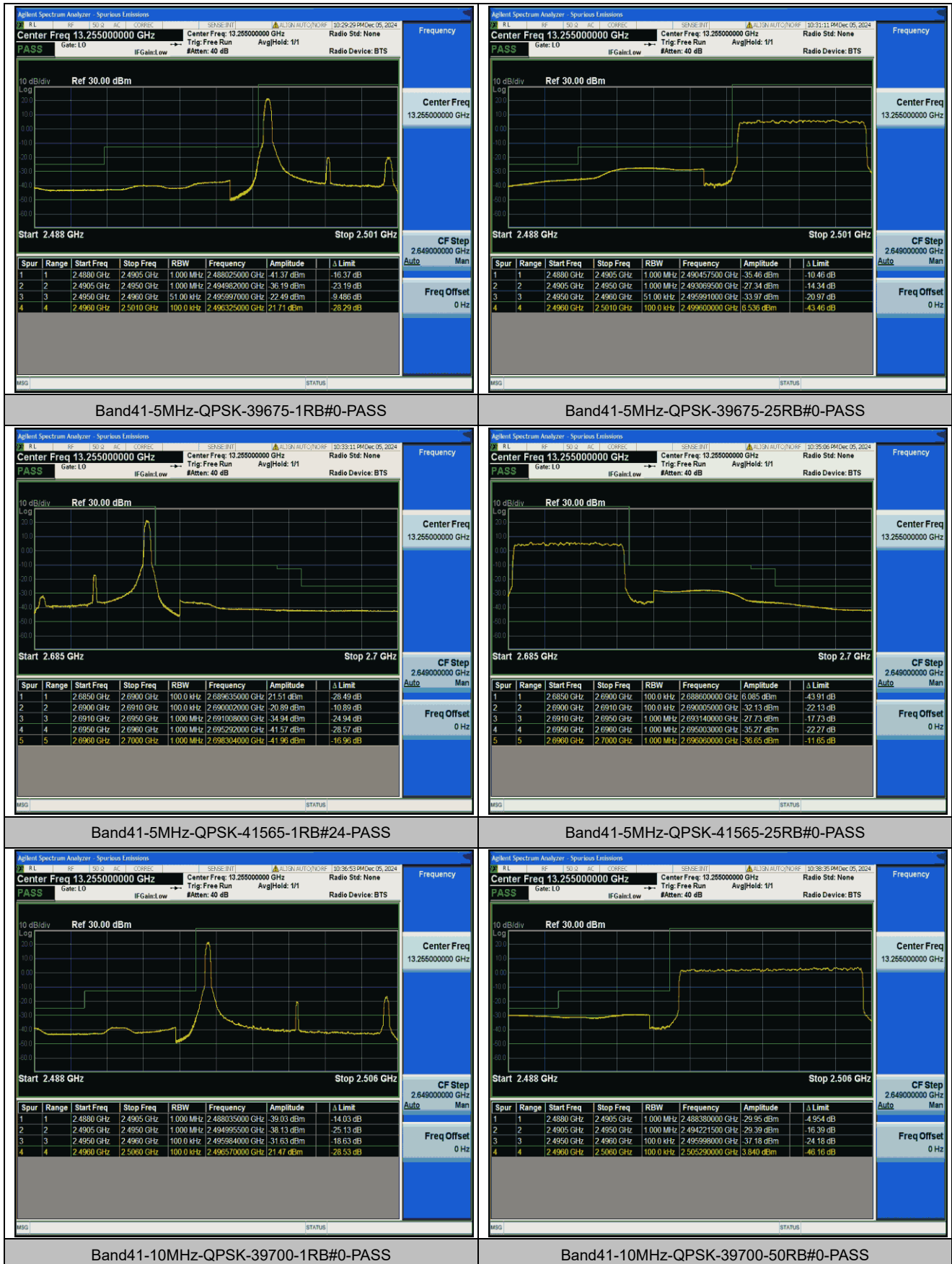


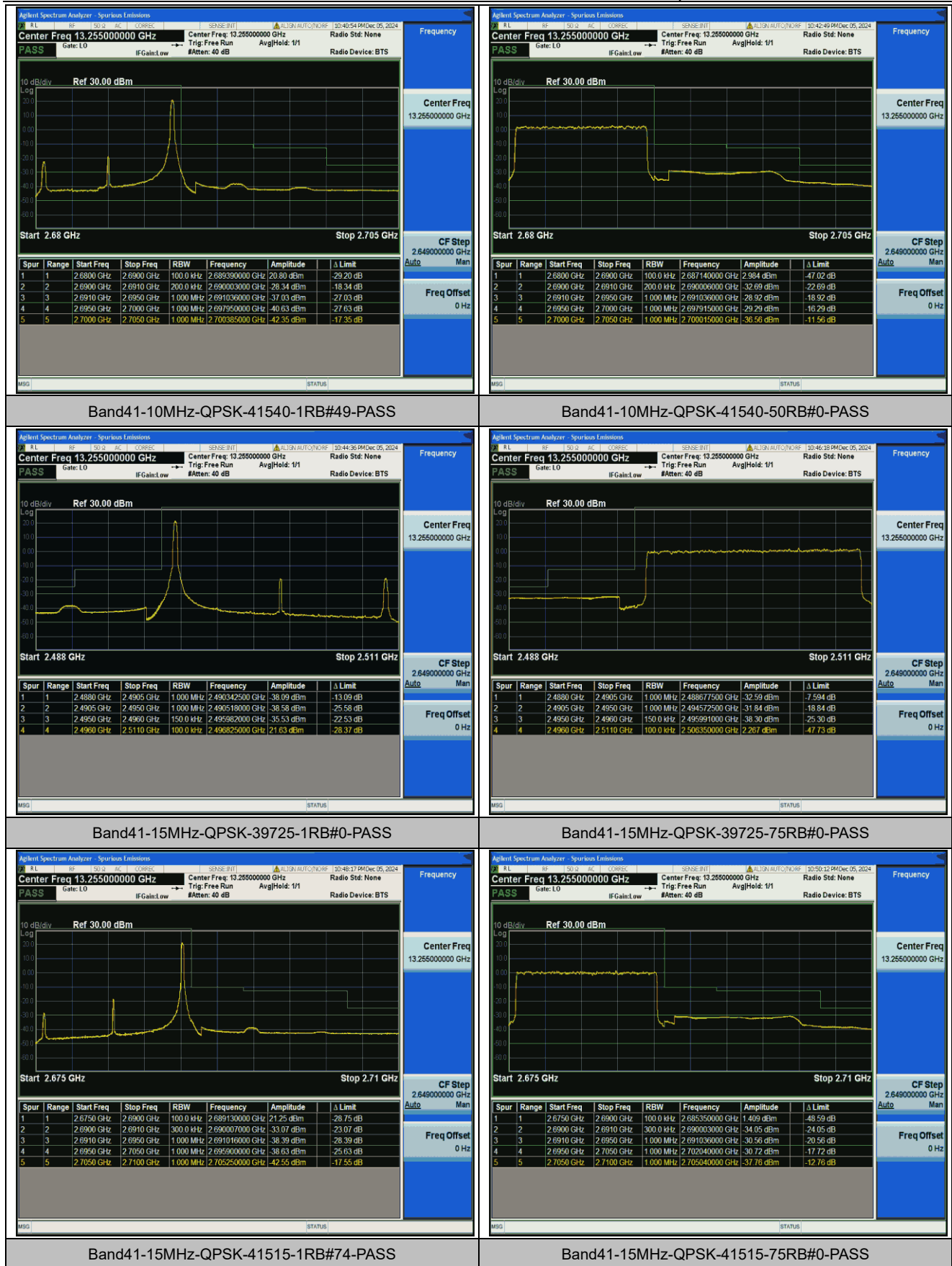


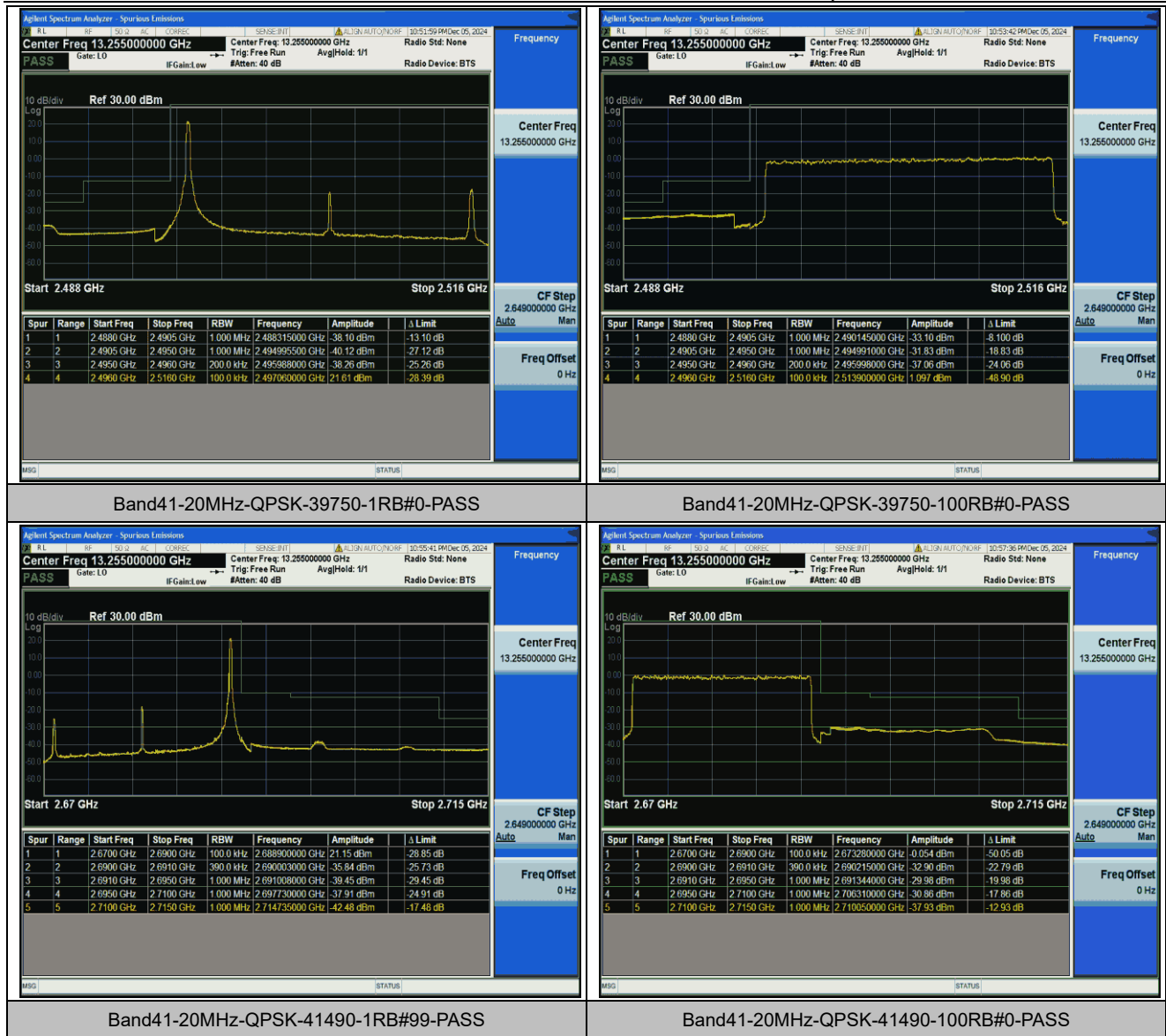


Band Edge

Test Graphs

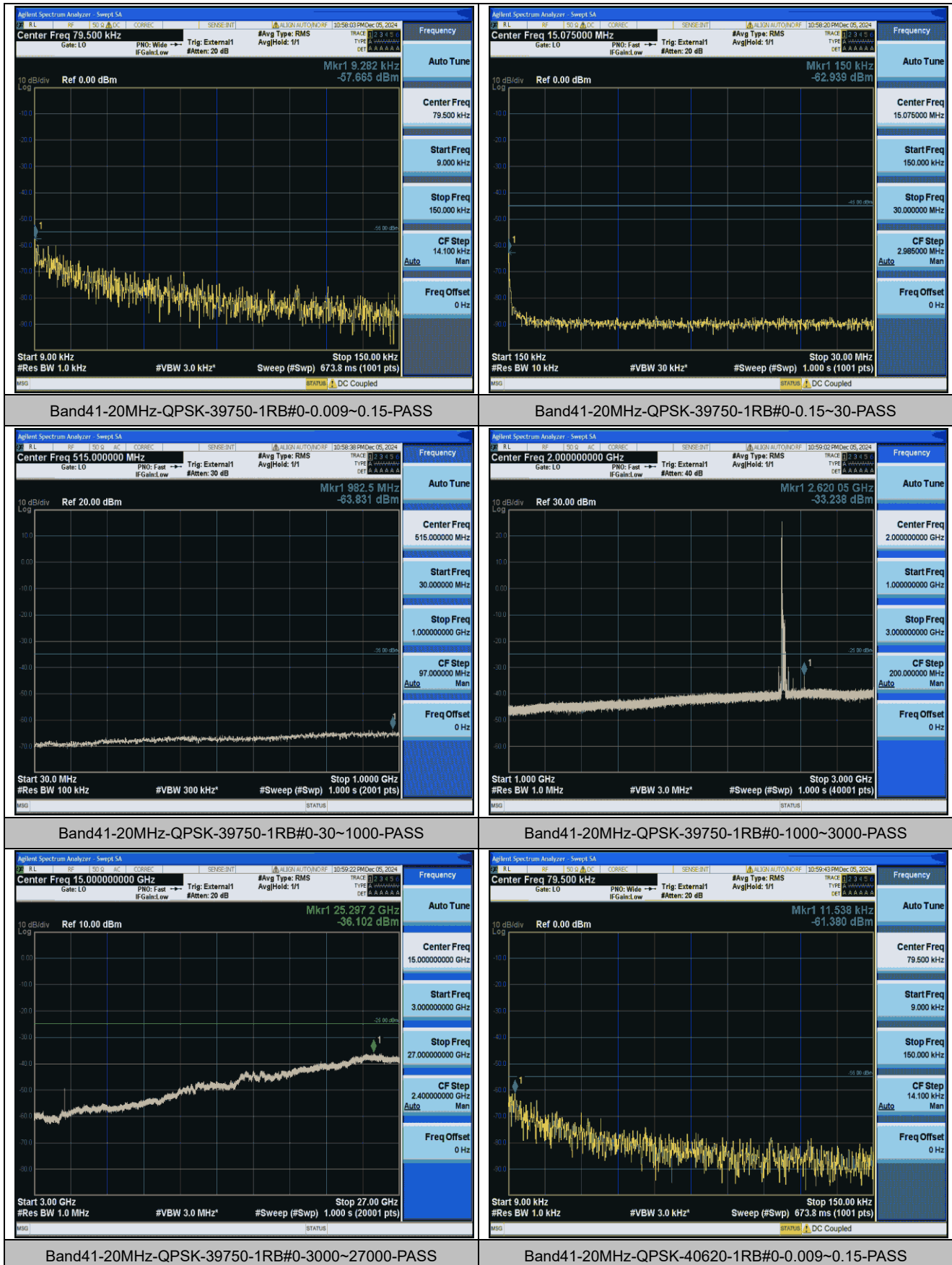


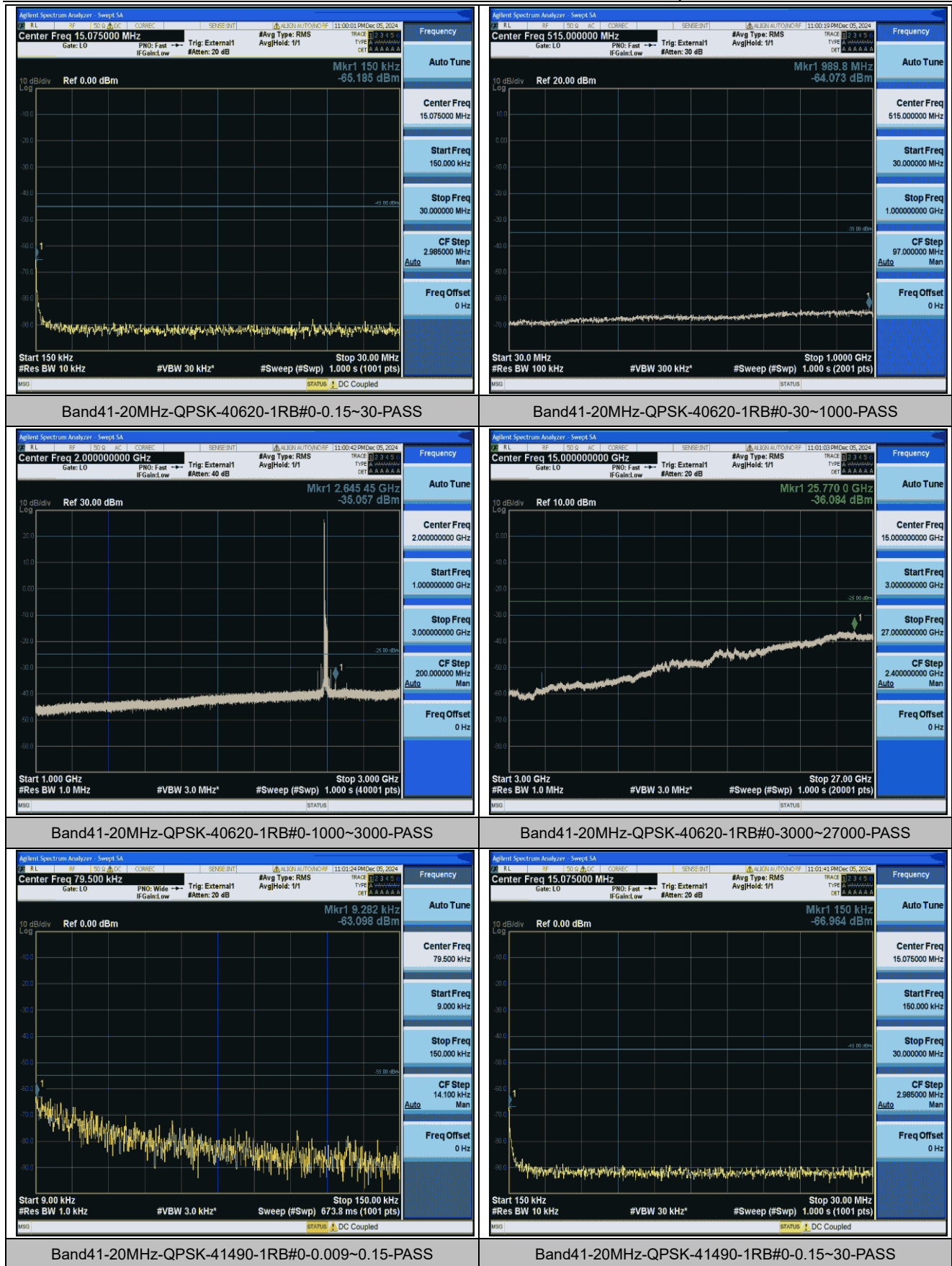


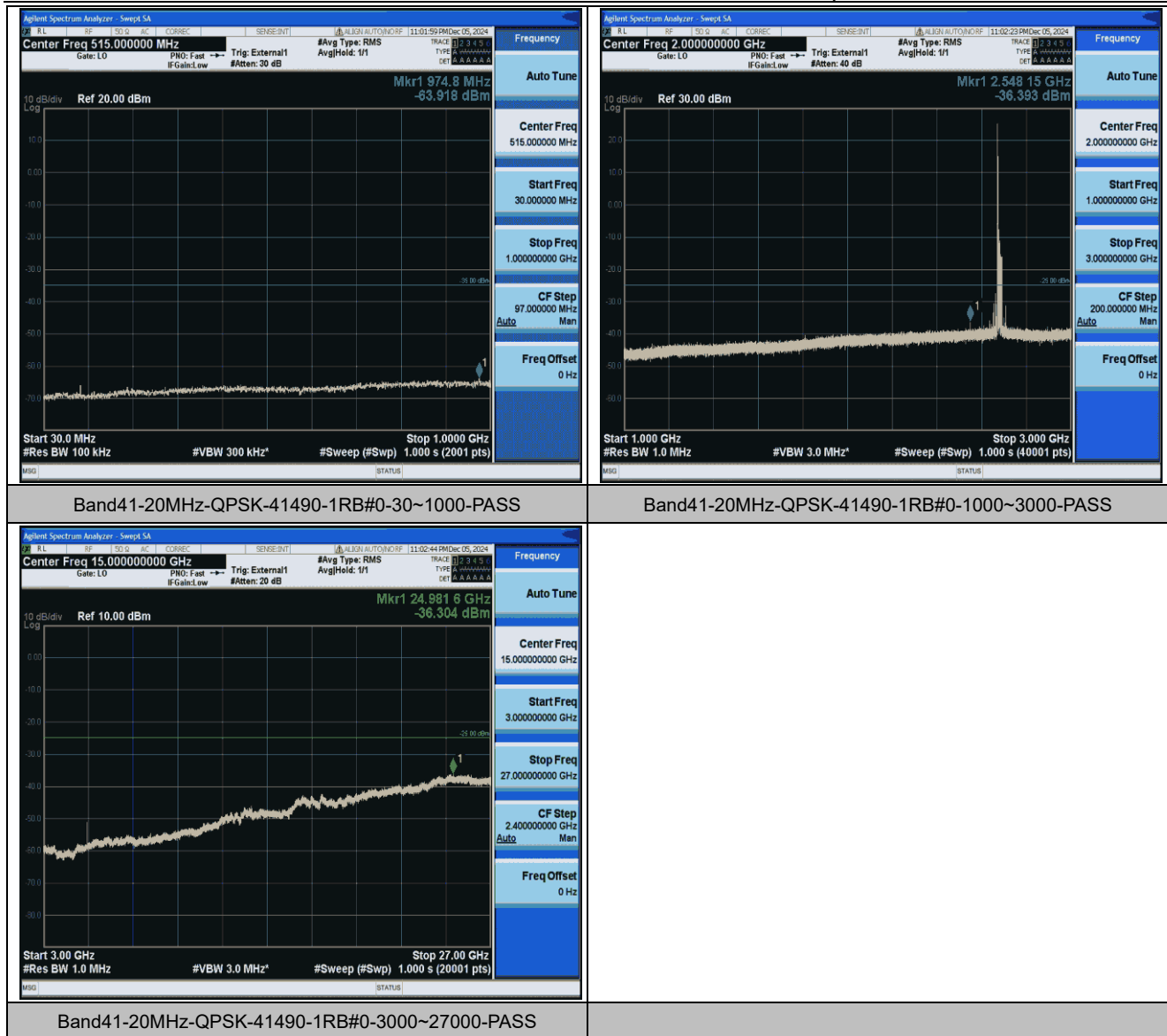


Conducted Spurious Emission

Test Graphs







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	7.40	0.002854	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	14.80	0.005708	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	35.40	0.013652	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	13.10	0.005052	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	21.00	0.008099	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	23.50	0.009063	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	29.30	0.011300	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	31.50	0.012148	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	44.70	0.017239	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-14.80	-0.005708	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-18.30	-0.007057	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-14.50	-0.005592	PASS

~The End~