

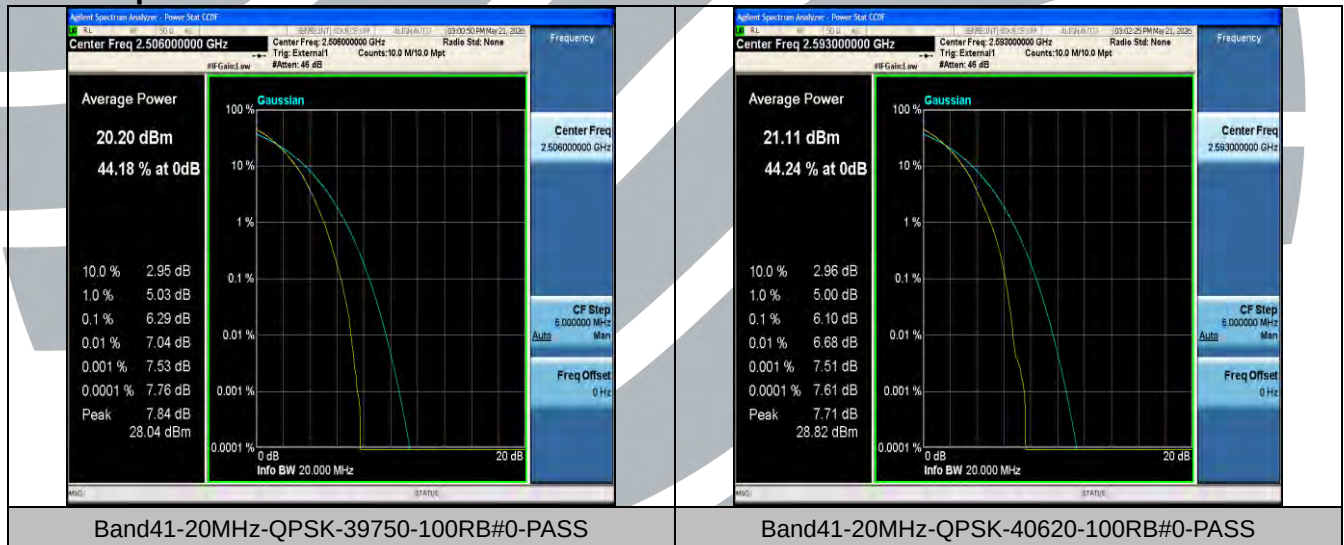
APPENDIX H LTE BAND 41 RF TEST DATA

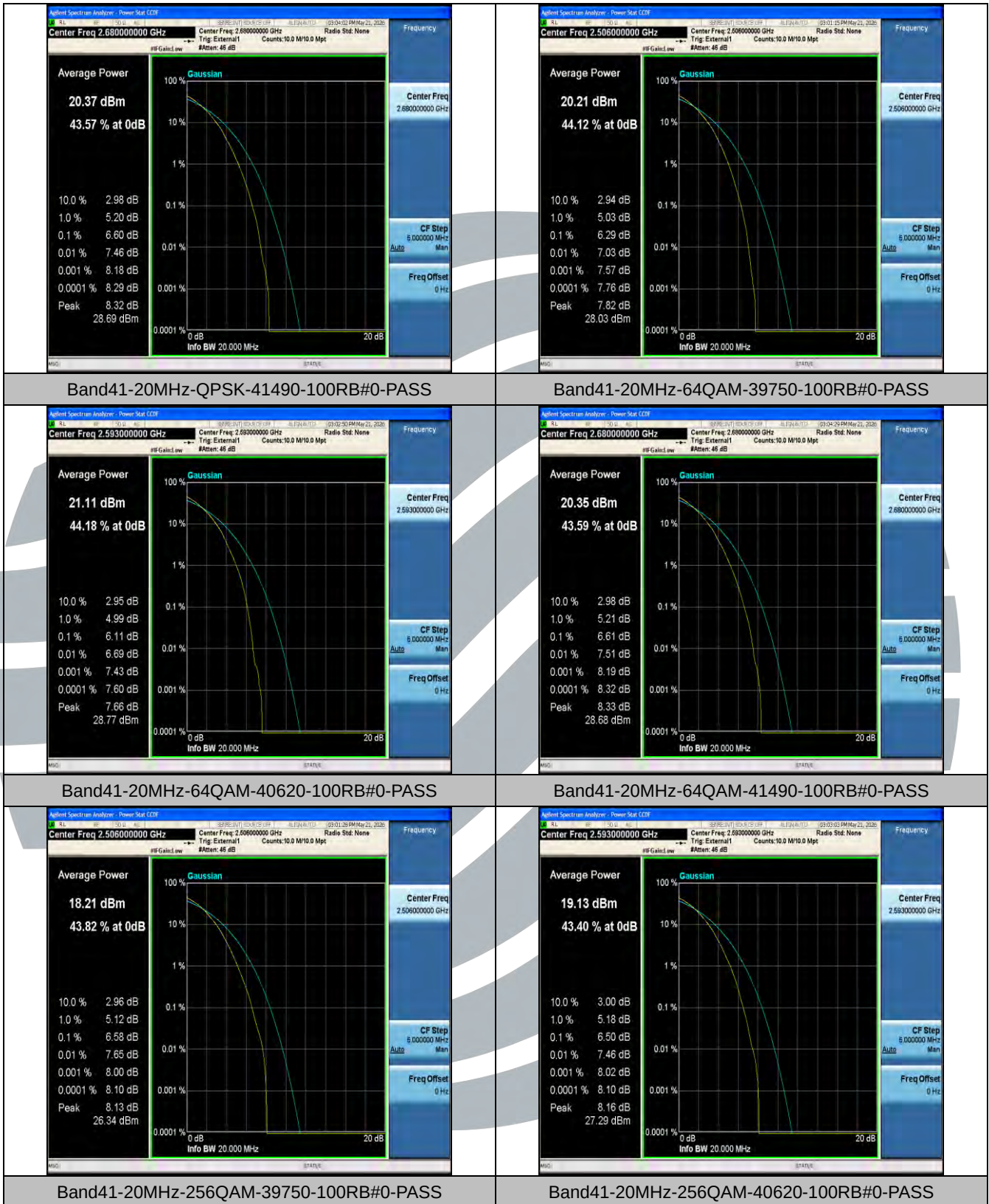
H.1 PEAK-TO-AVERAGE RATIO(CCDF)

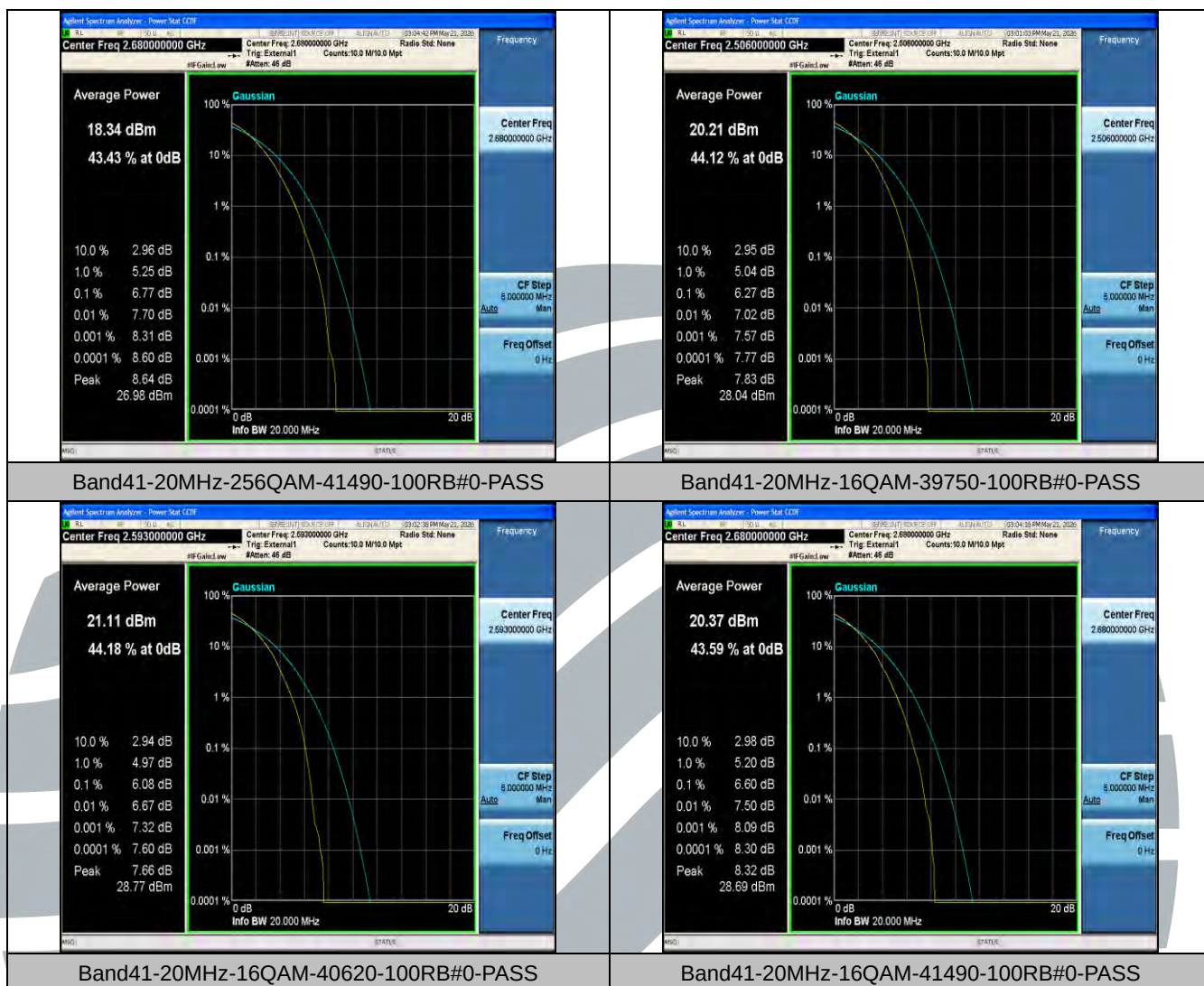
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	6.29	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	6.10	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.60	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.29	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.11	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	6.61	13	PASS
Band41	20MHz	256QAM	39750	100RB#0	6.58	13	PASS
Band41	20MHz	256QAM	40620	100RB#0	6.50	13	PASS
Band41	20MHz	256QAM	41490	100RB#0	6.77	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.27	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.08	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.60	13	PASS

Test Graphs





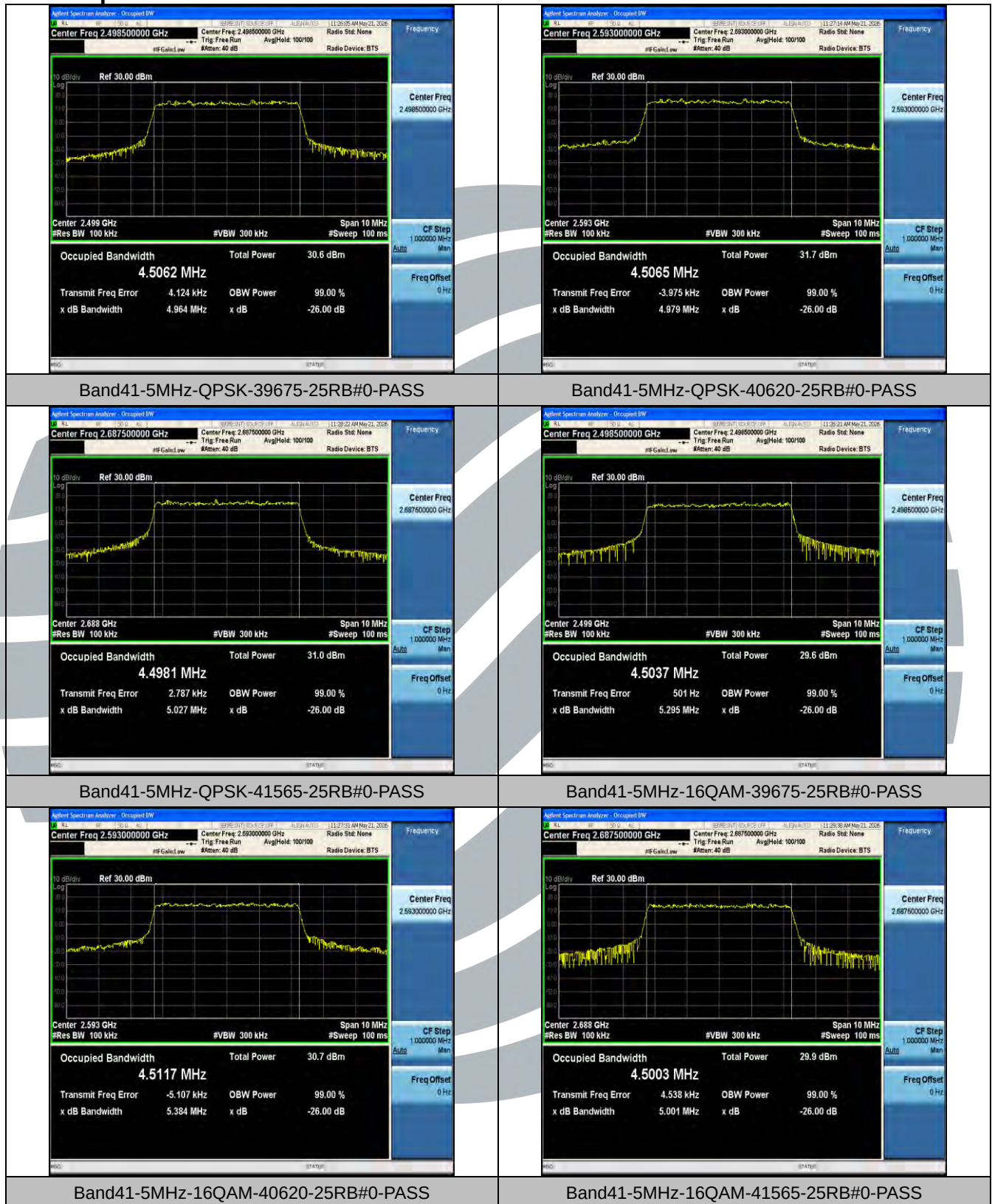


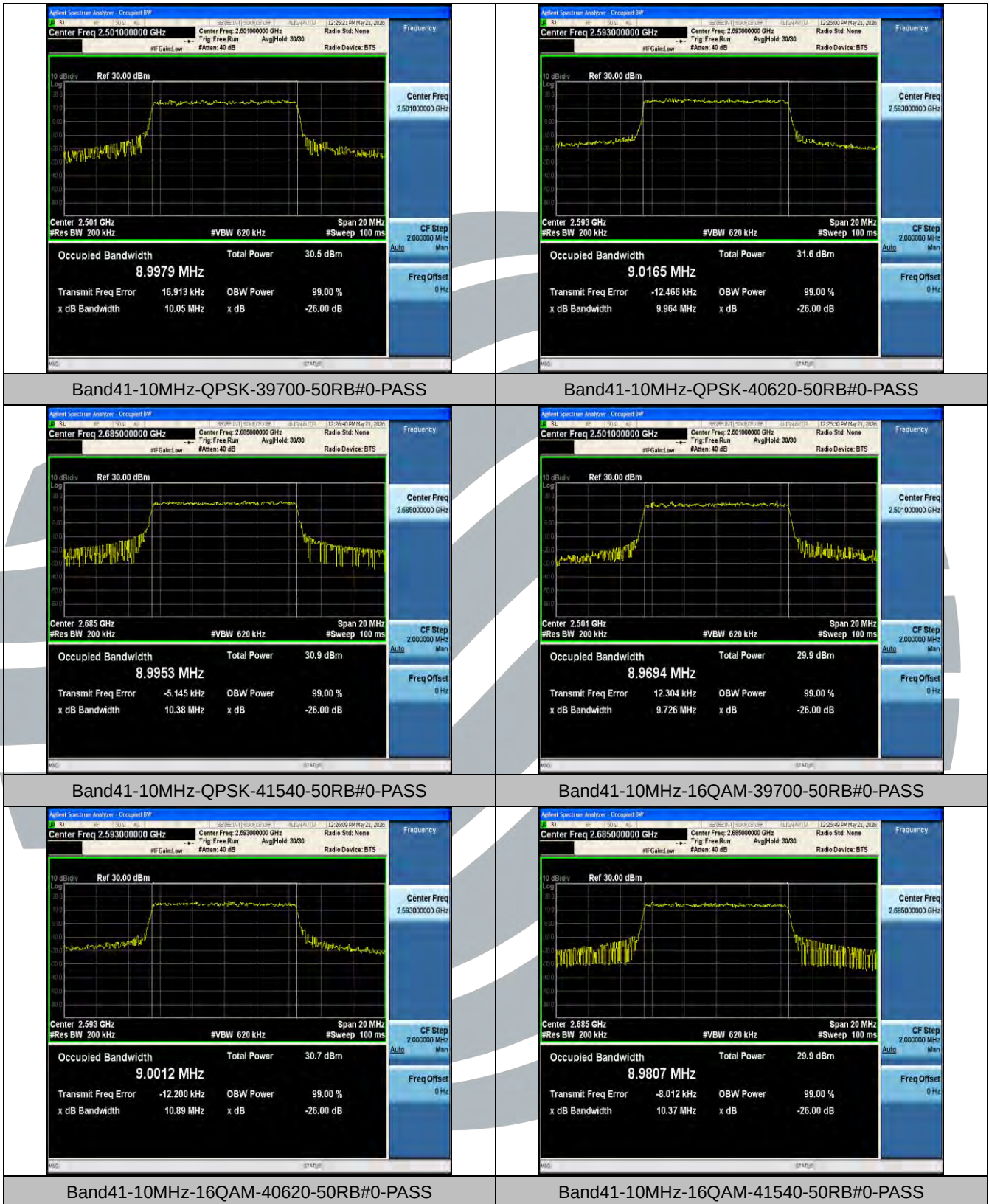
H.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

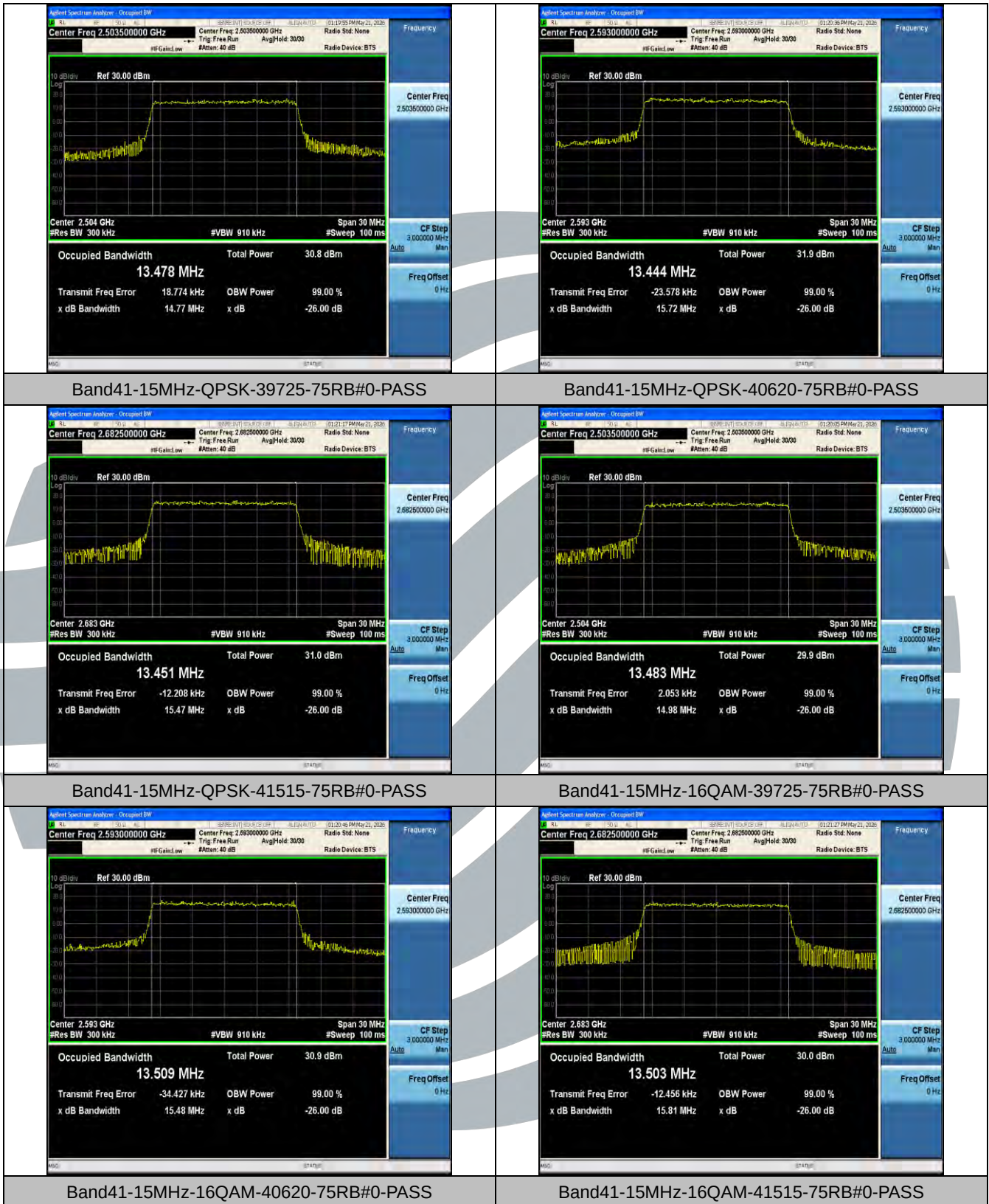
Test Result

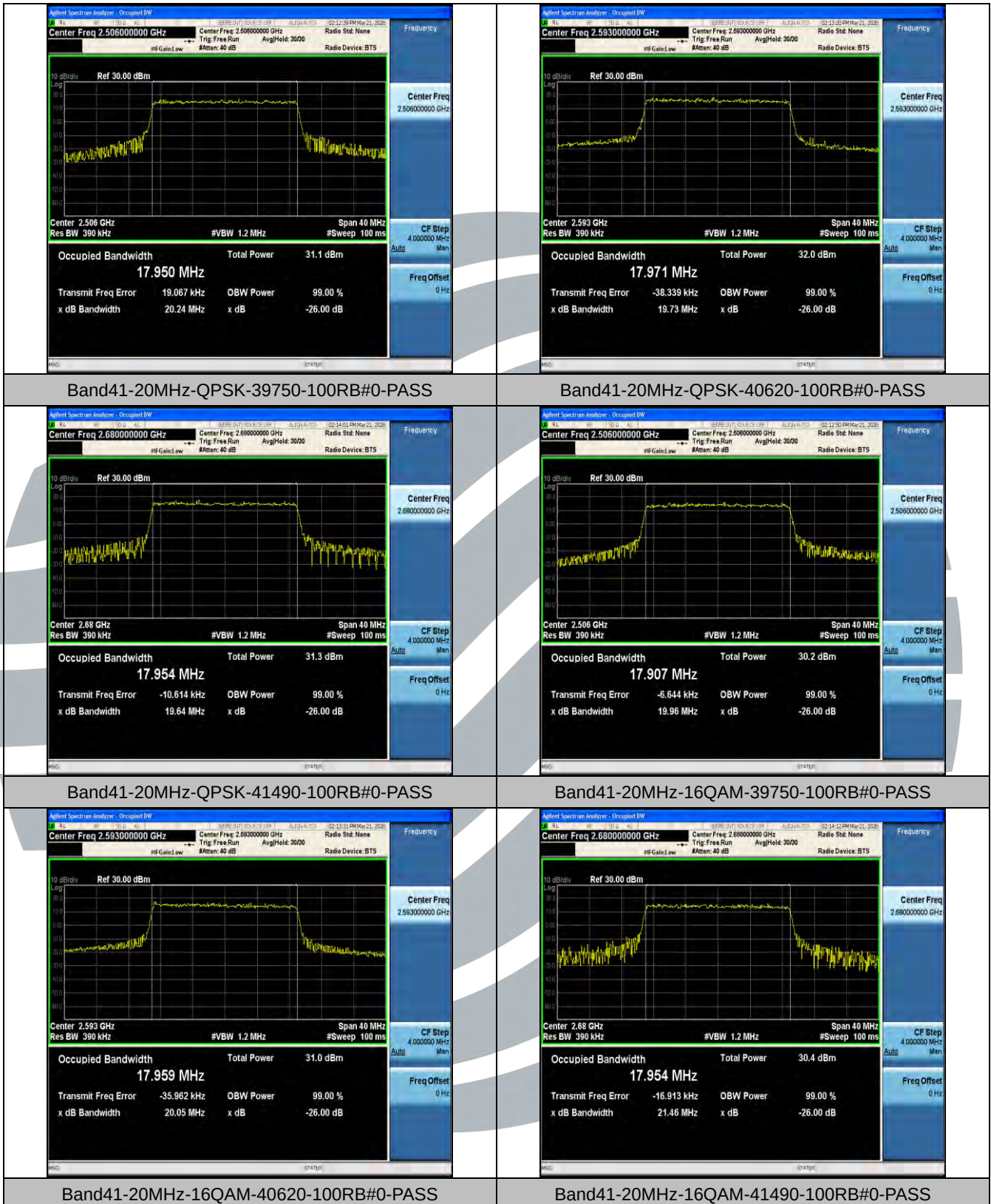
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5062	4.964	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5065	4.979	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4981	5.027	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5037	5.295	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5117	5.384	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5003	5.001	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9979	10.05	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0165	9.964	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9953	10.38	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9694	9.726	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.0012	10.89	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9807	10.37	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.478	14.77	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.444	15.72	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.451	15.47	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.483	14.98	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.509	15.48	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.503	15.81	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.950	20.24	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.971	19.73	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.954	19.64	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.907	19.96	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.959	20.05	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.954	21.46	PASS

Test Graphs







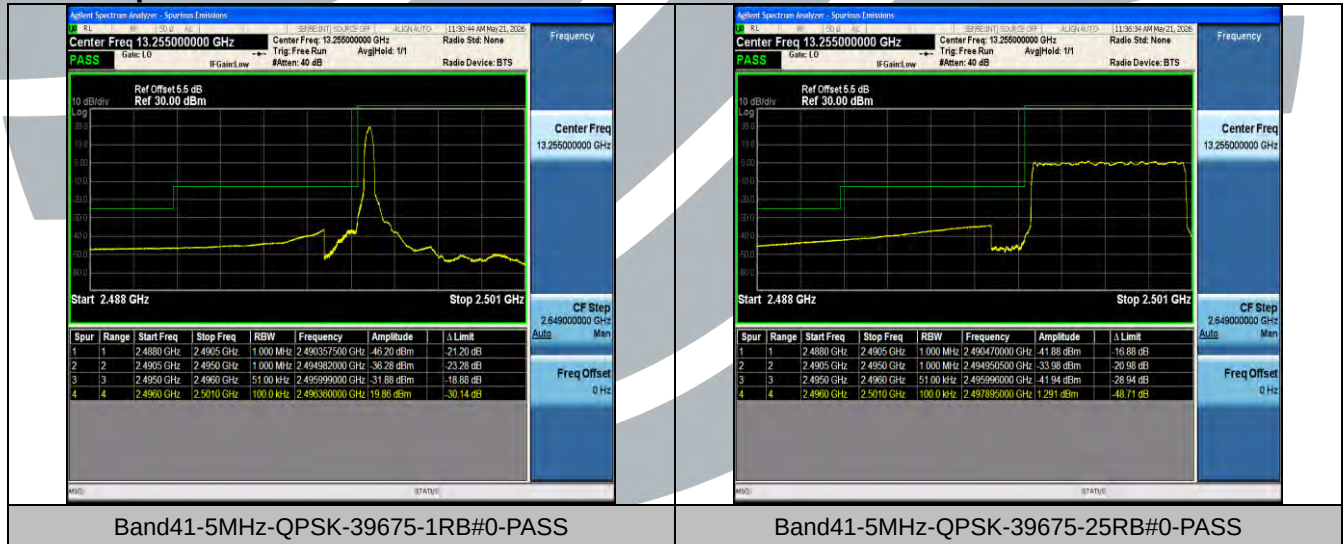


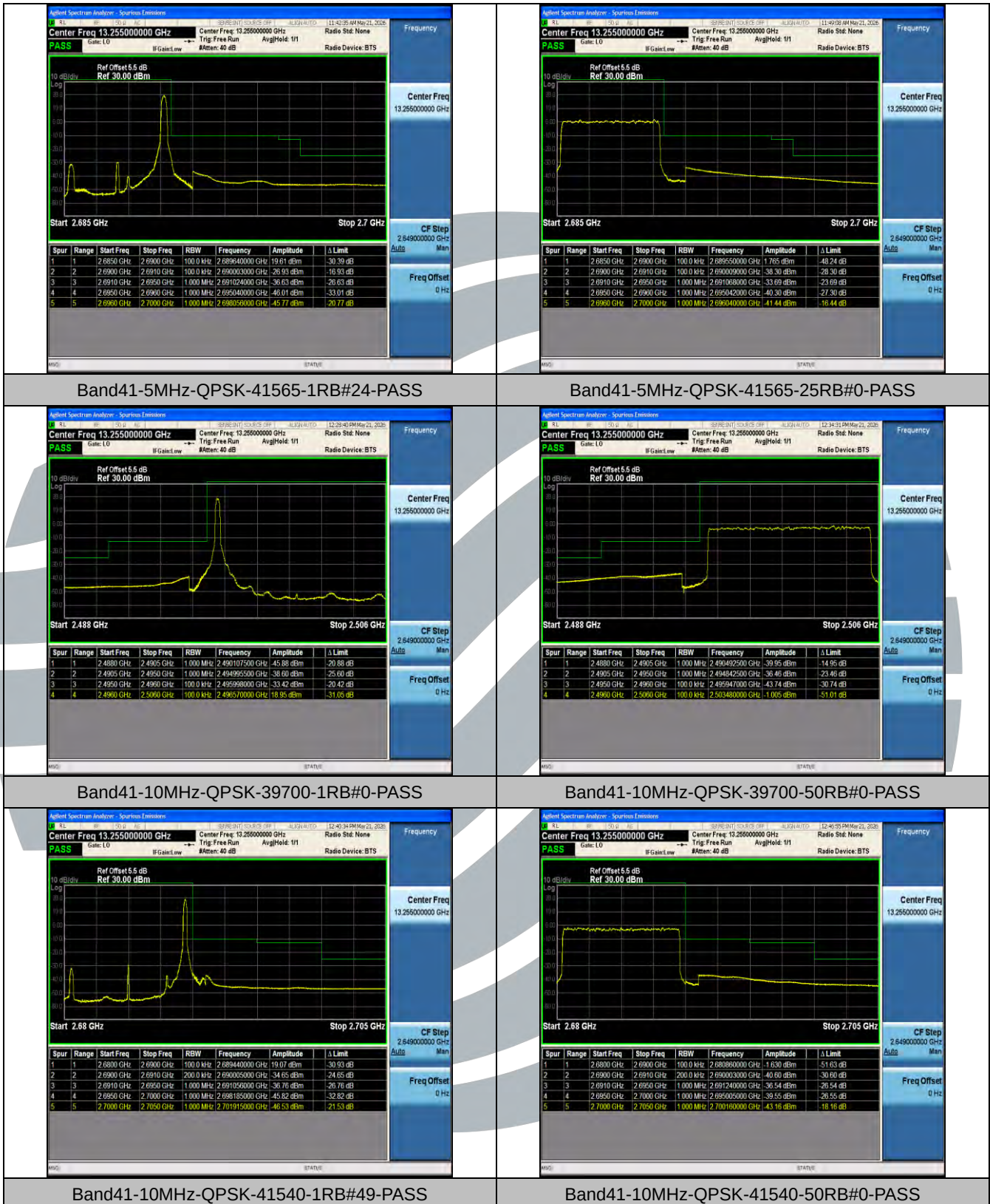
H.3 BAND EDGE

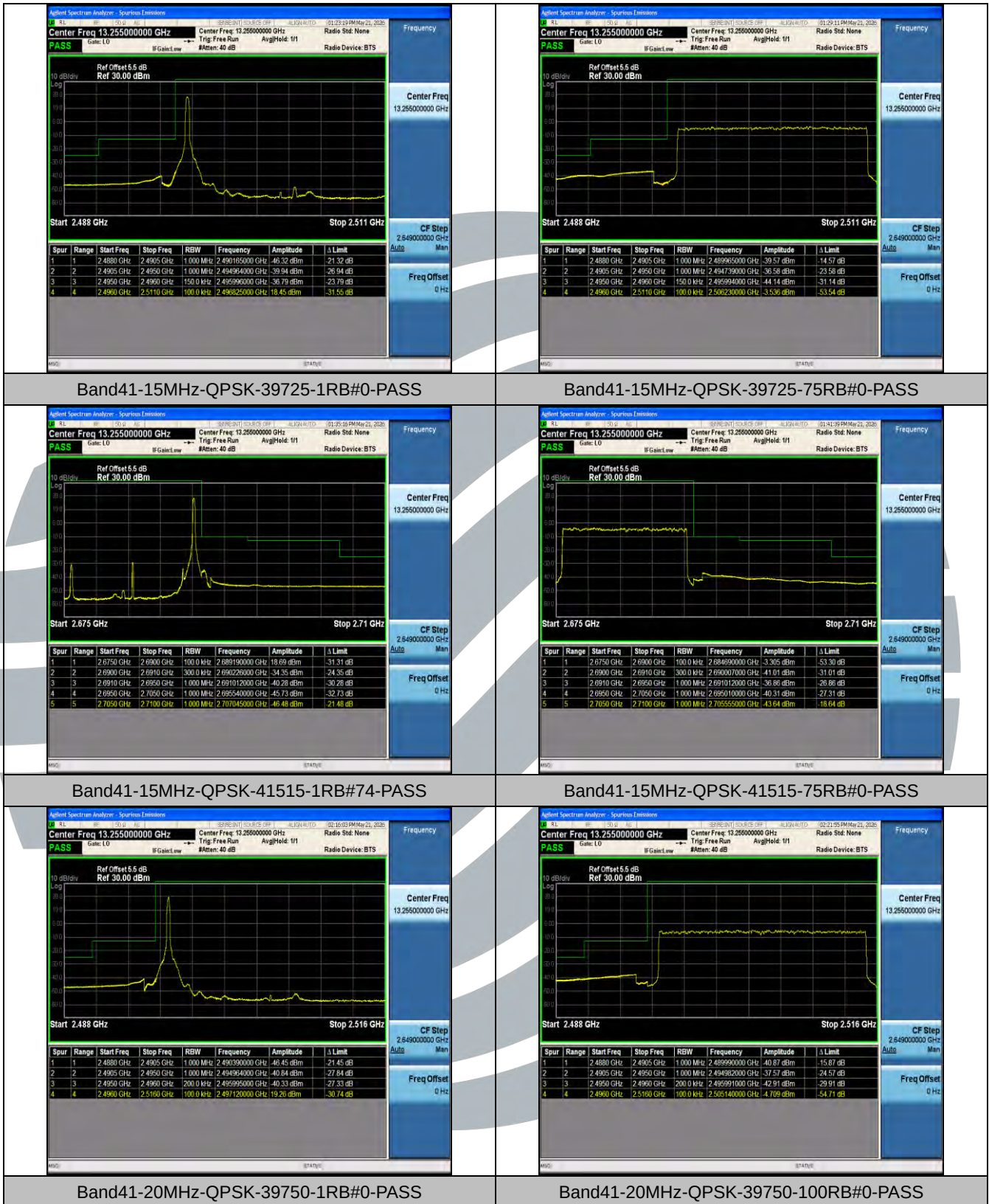
Test Result

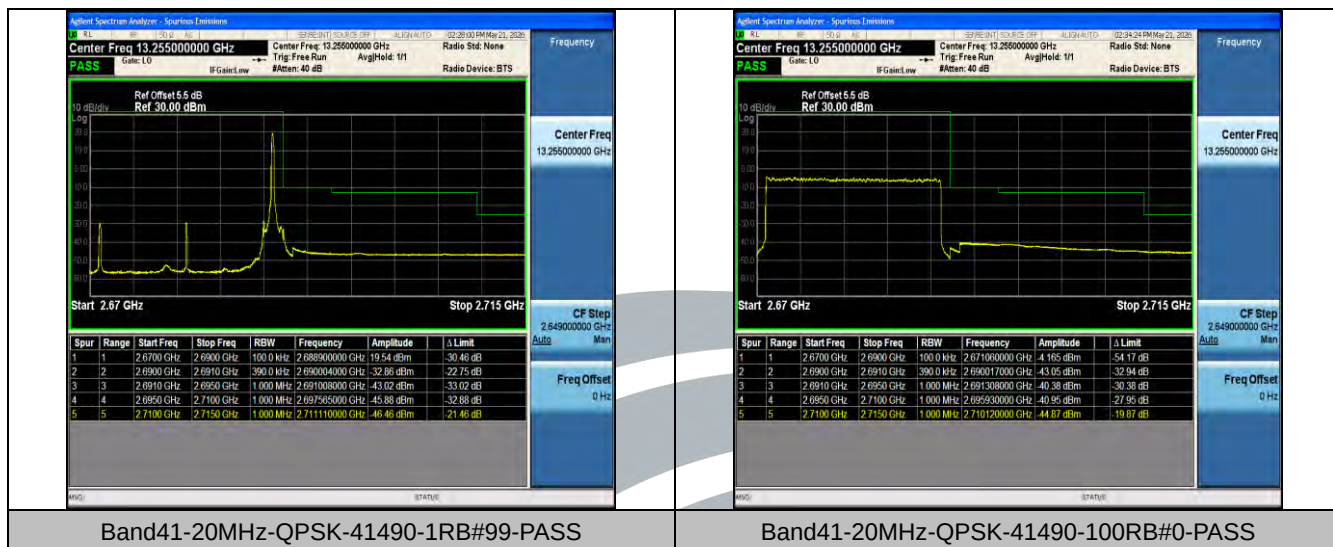
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-31.88	PASS
Band41	5MHz	QPSK	39675	25RB#0	-41.88	PASS
Band41	5MHz	QPSK	41565	1RB#24	-26.93	PASS
Band41	5MHz	QPSK	41565	25RB#0	-41.44	PASS
Band41	10MHz	QPSK	39700	1RB#0	-33.42	PASS
Band41	10MHz	QPSK	39700	50RB#0	-39.95	PASS
Band41	10MHz	QPSK	41540	1RB#49	-46.53	PASS
Band41	10MHz	QPSK	41540	50RB#0	-43.16	PASS
Band41	15MHz	QPSK	39725	1RB#0	-46.32	PASS
Band41	15MHz	QPSK	39725	75RB#0	-39.57	PASS
Band41	15MHz	QPSK	41515	1RB#74	-46.48	PASS
Band41	15MHz	QPSK	41515	75RB#0	-43.64	PASS
Band41	20MHz	QPSK	39750	1RB#0	-46.45	PASS
Band41	20MHz	QPSK	39750	100RB#0	-40.87	PASS
Band41	20MHz	QPSK	41490	1RB#99	-46.46	PASS
Band41	20MHz	QPSK	41490	100RB#0	-44.87	PASS

Test Graphs







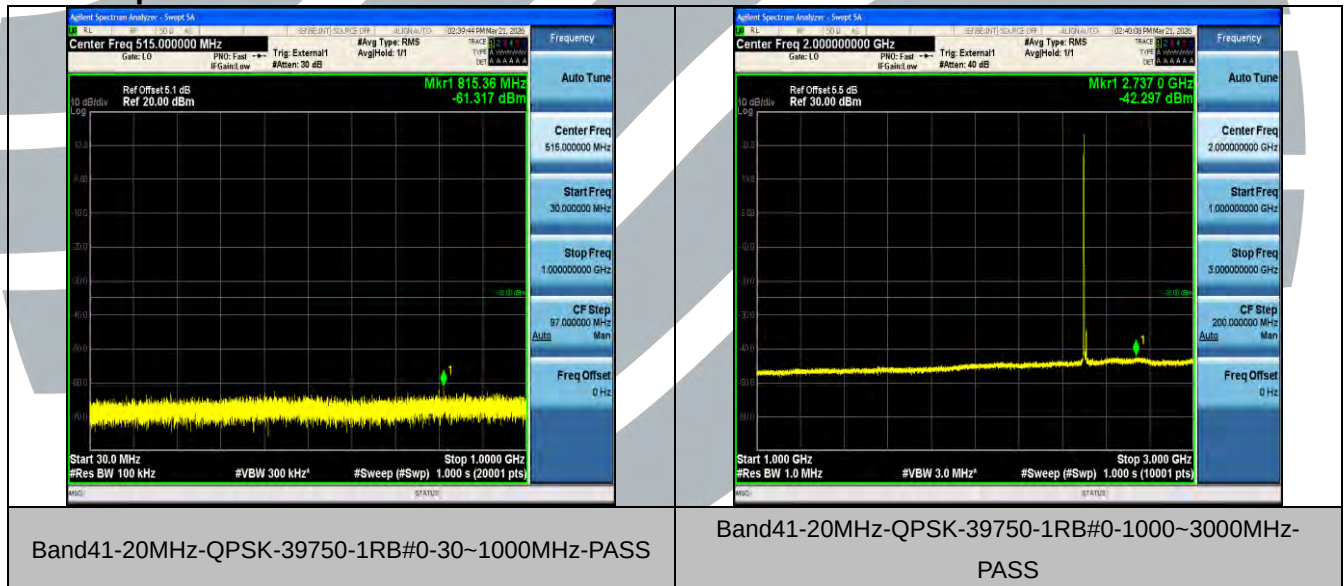


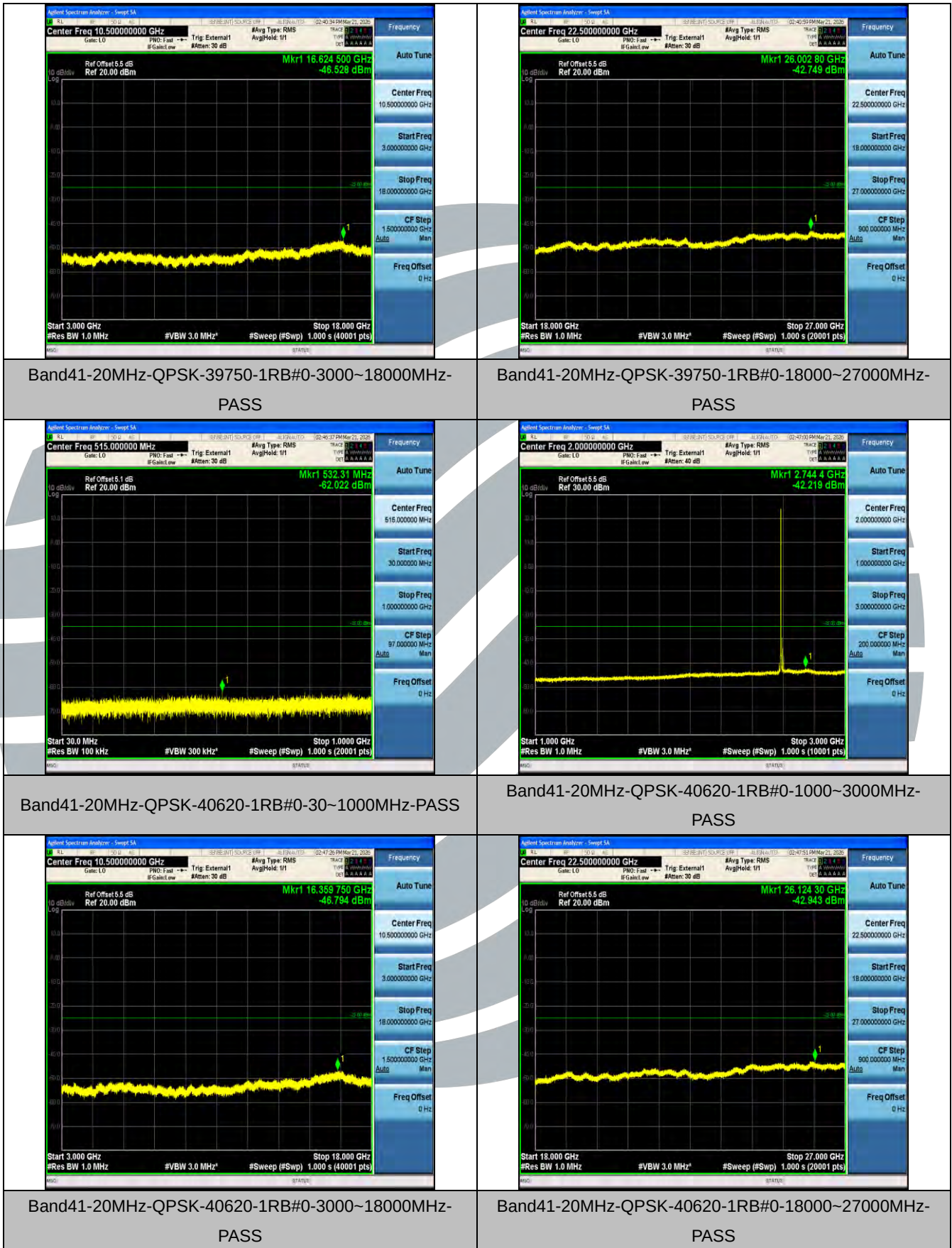
H.4 CONDUCTED SPURIOUS EMISSION

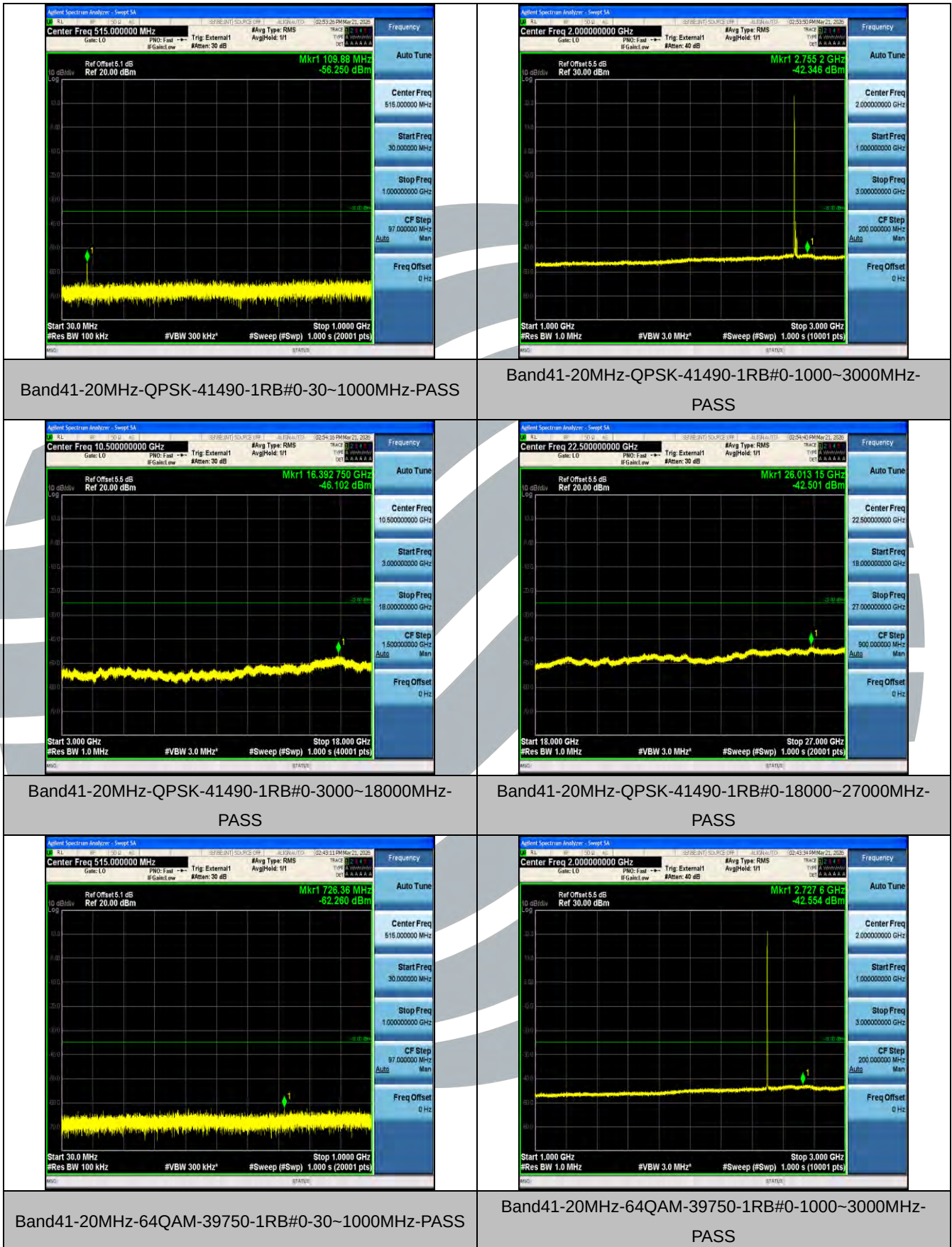
Test Result

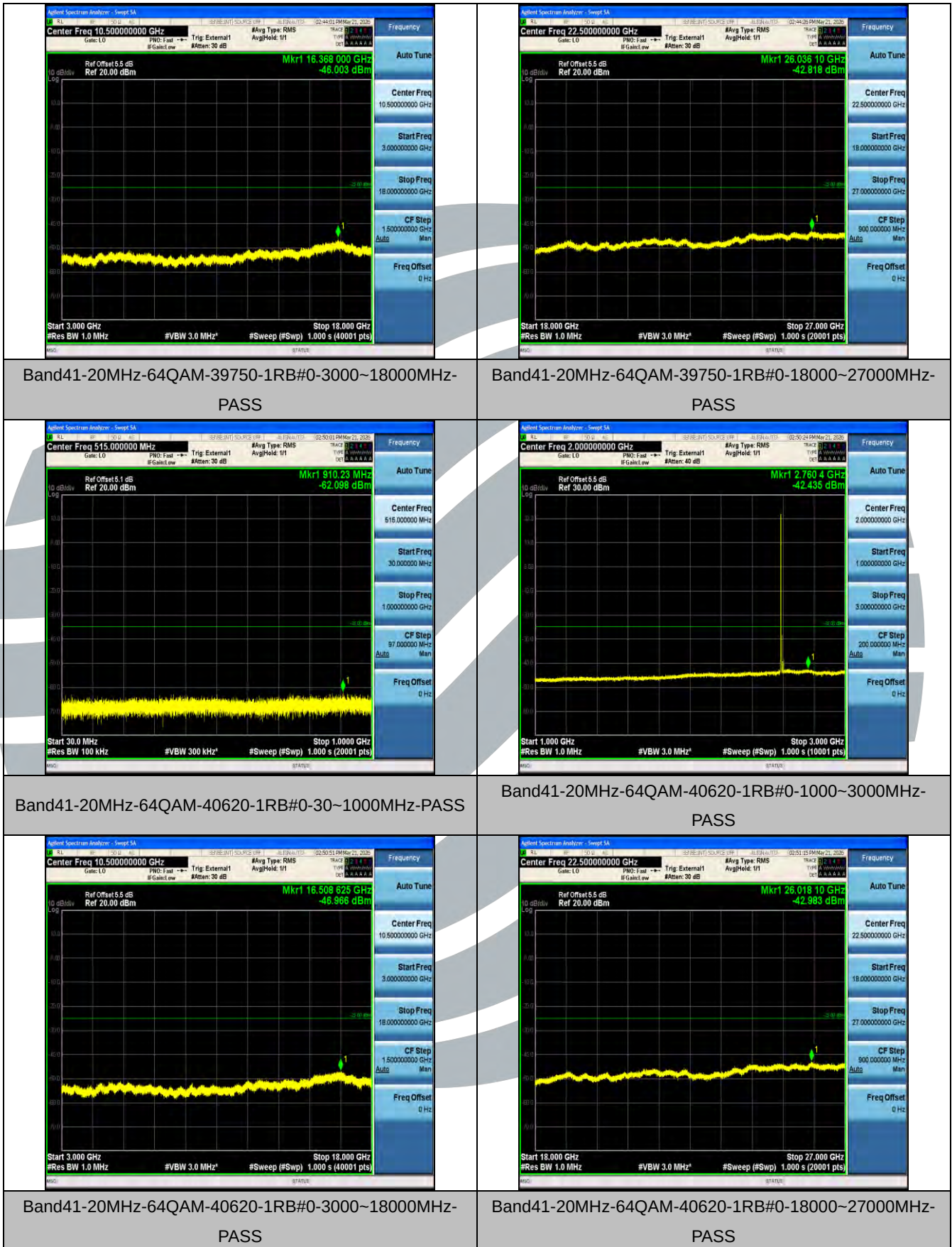
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	30~1000	-61.32	PASS
Band41	20MHz	QPSK	39750	1RB#0	1000~3000	-42.30	PASS
Band41	20MHz	QPSK	39750	1RB#0	3000~18000	-46.53	PASS
Band41	20MHz	QPSK	39750	1RB#0	18000~27000	-42.75	PASS
Band41	20MHz	QPSK	40620	1RB#0	30~1000	-62.02	PASS
Band41	20MHz	QPSK	40620	1RB#0	1000~3000	-42.22	PASS
Band41	20MHz	QPSK	40620	1RB#0	3000~18000	-46.79	PASS
Band41	20MHz	QPSK	40620	1RB#0	18000~27000	-42.94	PASS
Band41	20MHz	QPSK	41490	1RB#0	30~1000	-56.25	PASS
Band41	20MHz	QPSK	41490	1RB#0	1000~3000	-42.35	PASS
Band41	20MHz	QPSK	41490	1RB#0	3000~18000	-46.10	PASS
Band41	20MHz	QPSK	41490	1RB#0	18000~27000	-42.50	PASS

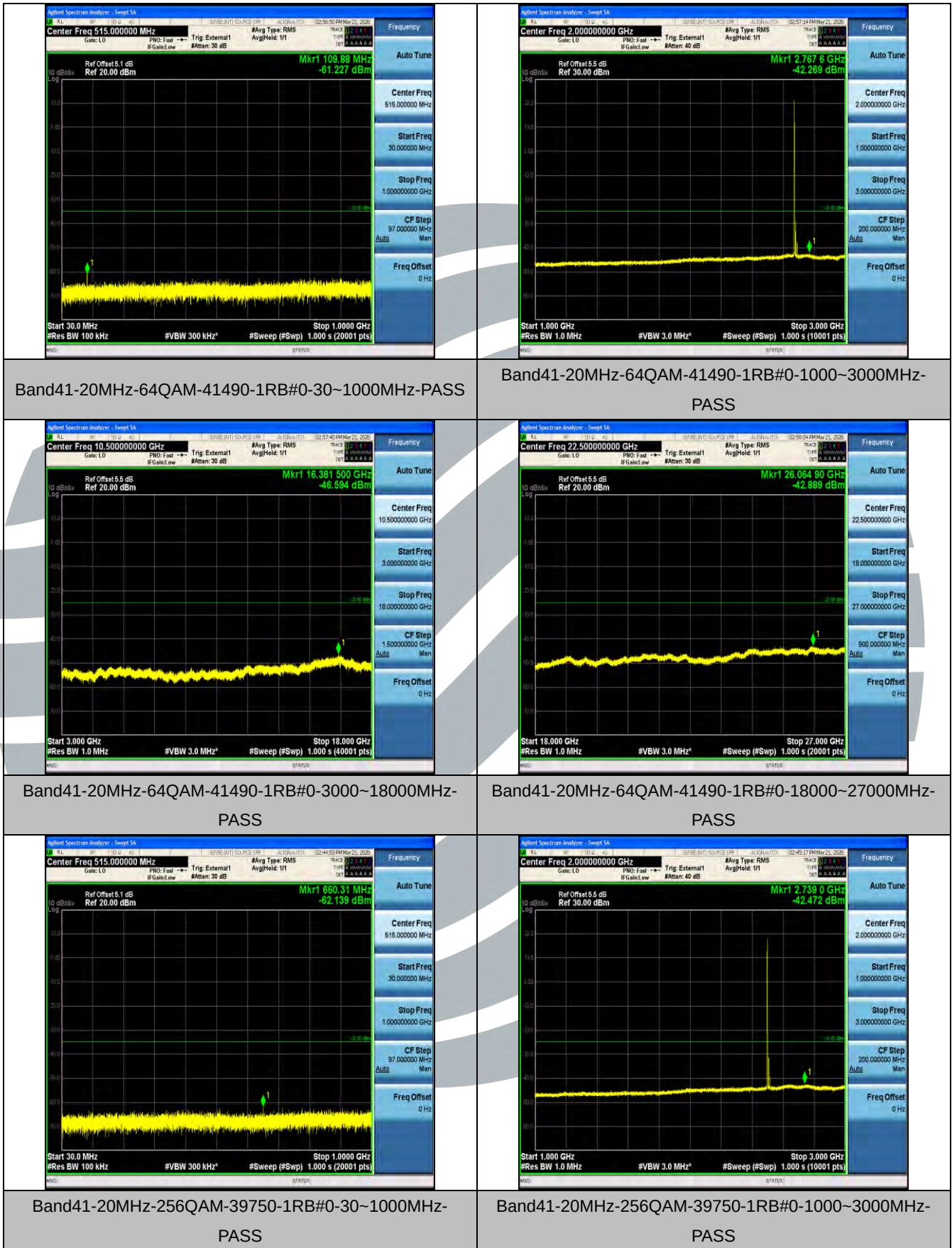
Test Graphs

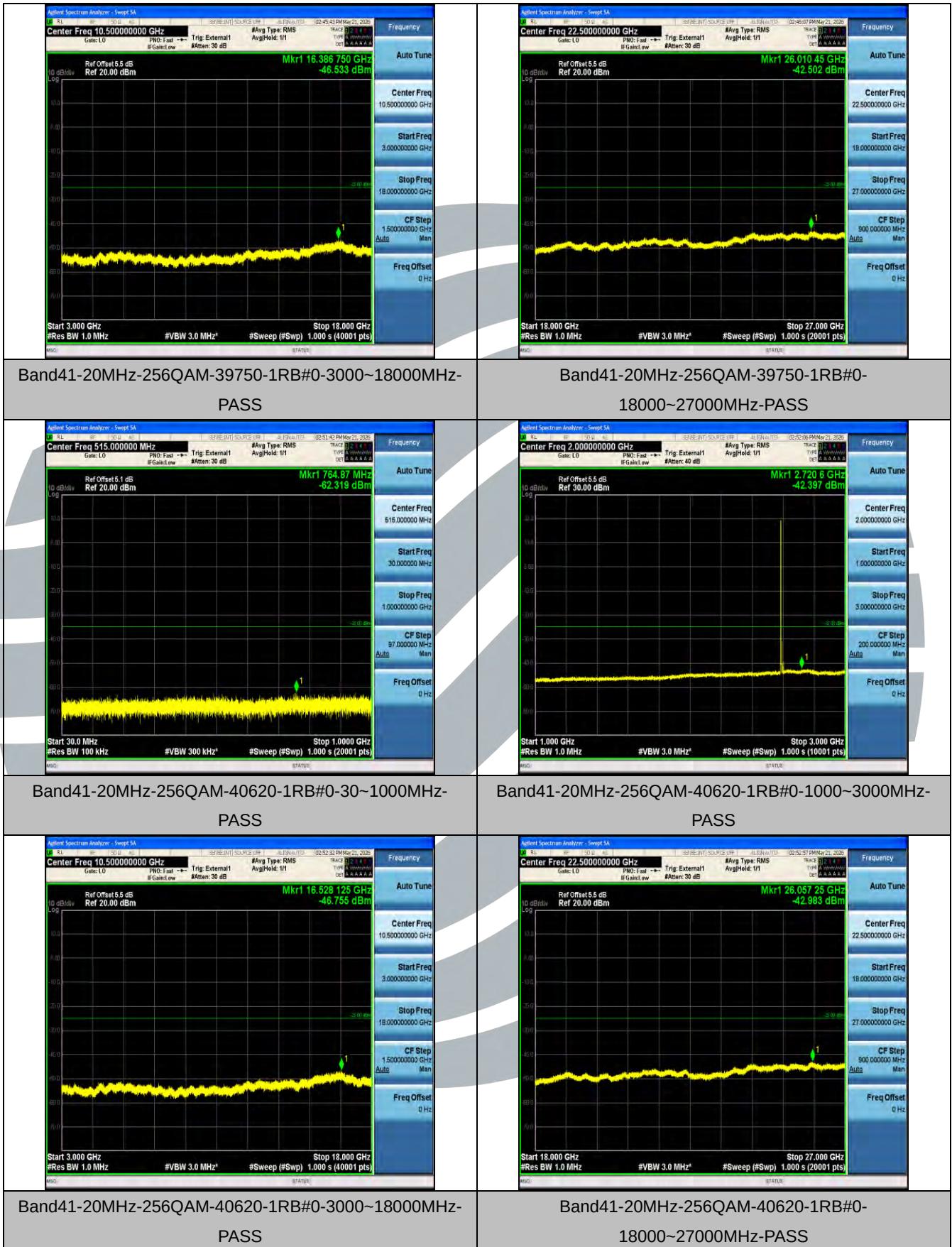


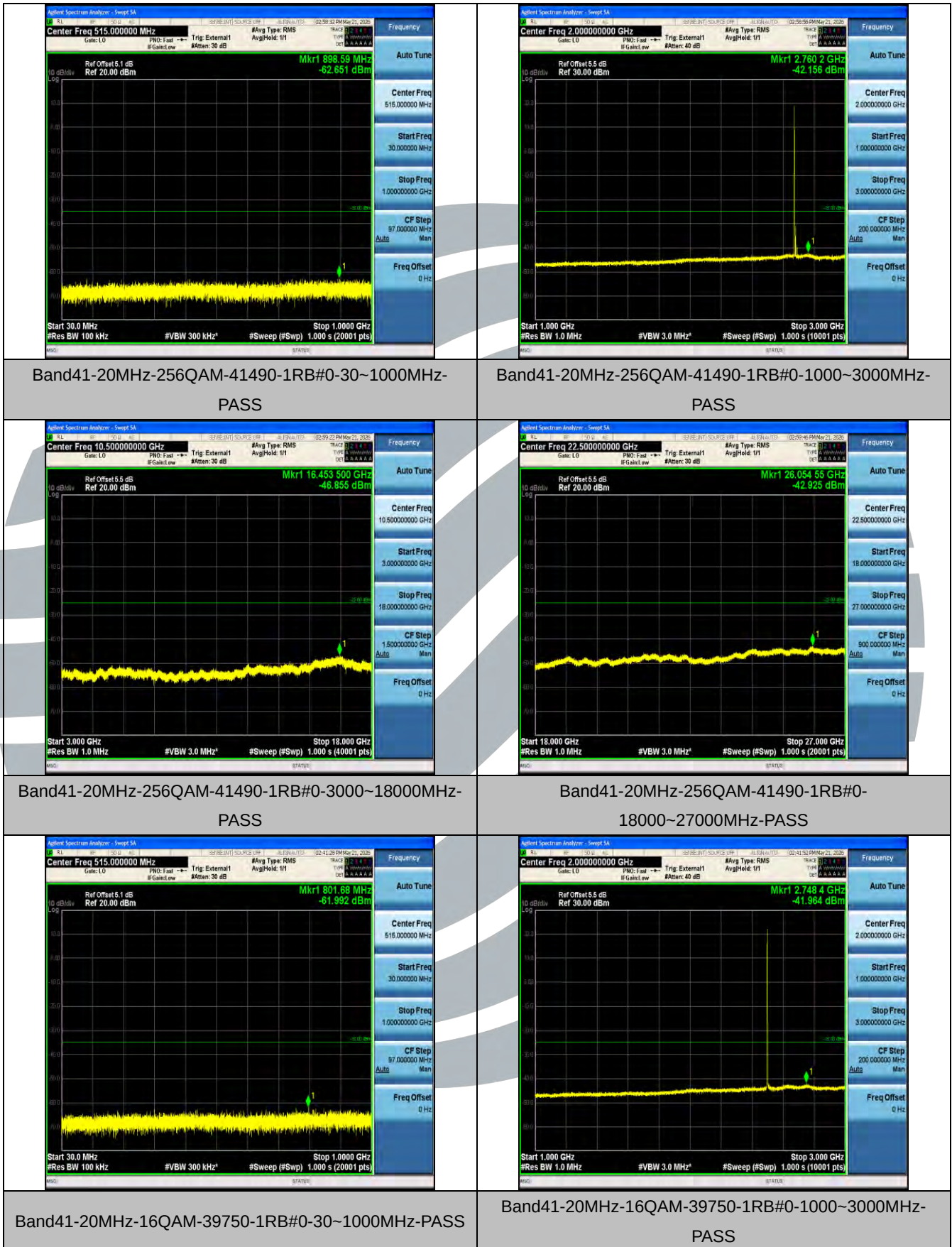


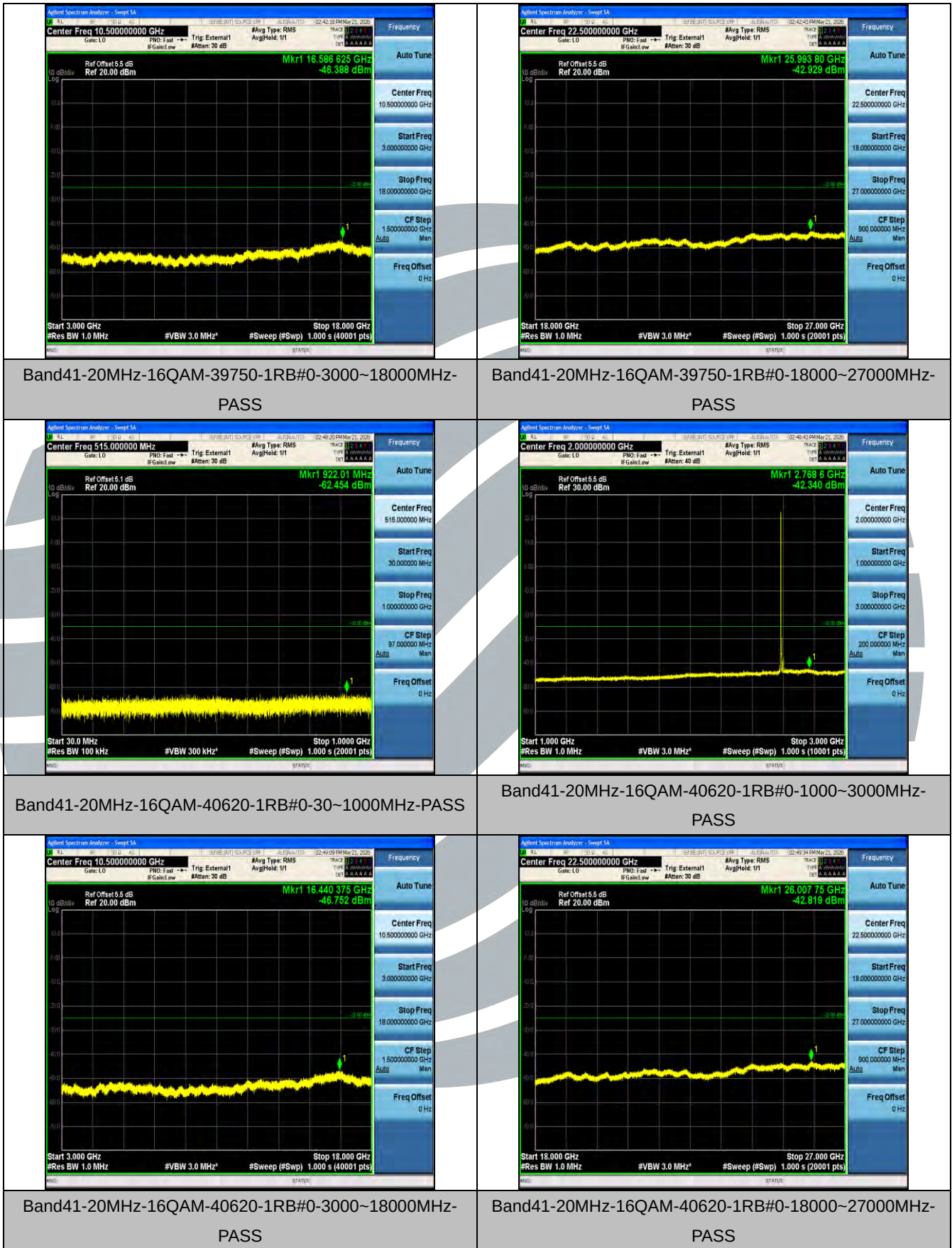


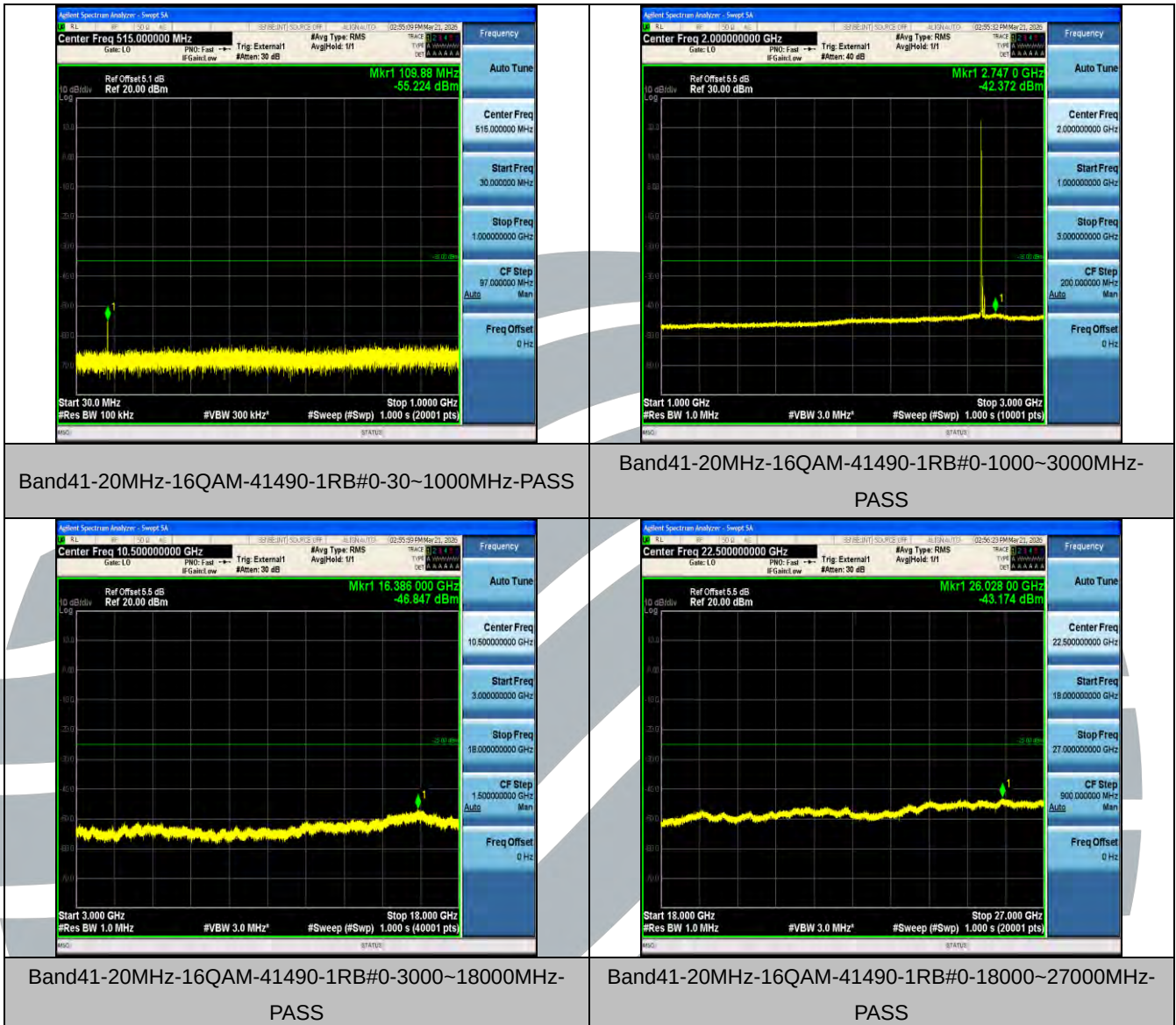












H.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-6.35	-0.002449	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-5.85	-0.002256	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-3.72	-0.001435	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-6.08	-0.002345	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-6.77	-0.002611	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-3.48	-0.001342	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-8.28	-0.003193	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-5.97	-0.002302	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-6.38	-0.002460	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-5.19	-0.002002	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-8.68	-0.003347	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-6.07	-0.002341	±2.5	PASS