

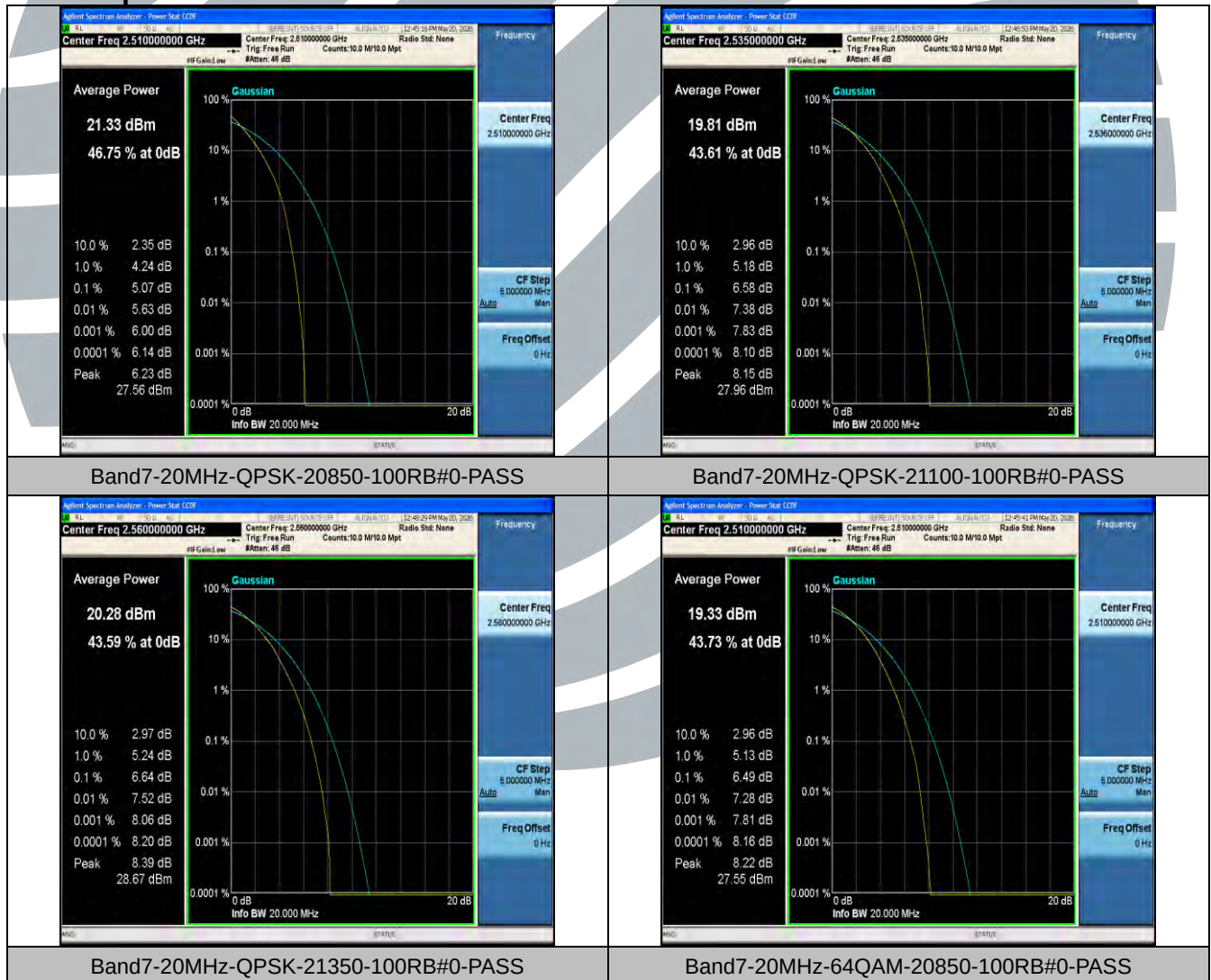
APPENDIX A LTE BAND 7 RF TEST DATA

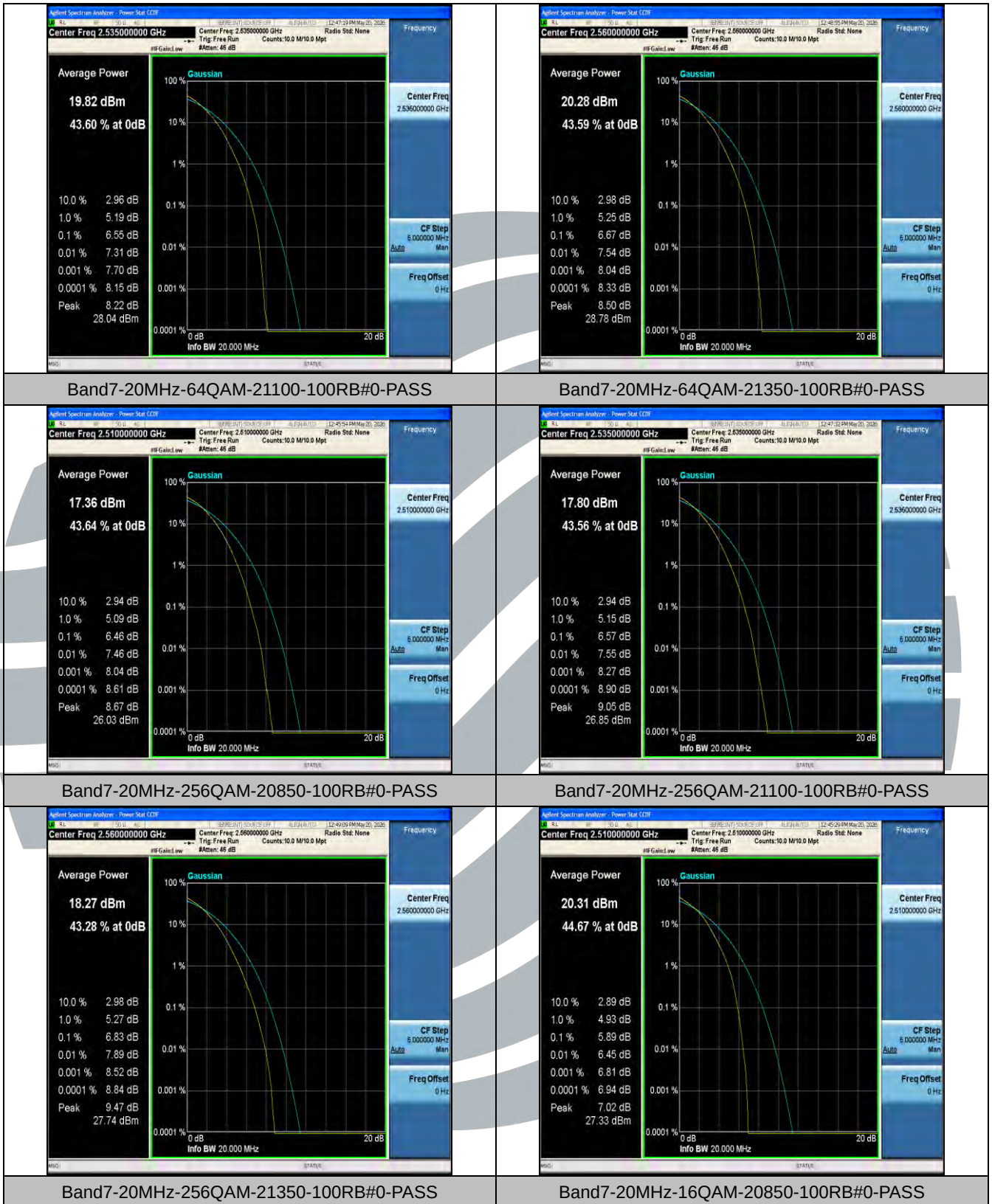
A.1 PEAK-TO-AVERAGE RATIO (CCDF)

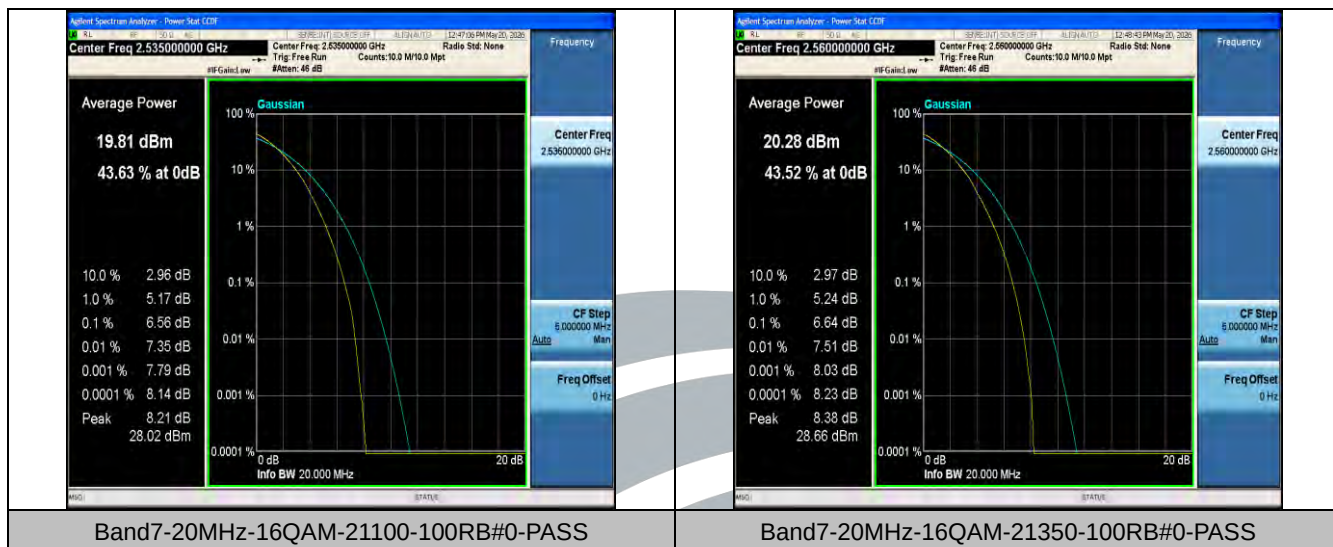
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.07	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.58	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.64	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.89	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.56	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.64	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.49	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.55	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.67	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.46	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.57	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.83	13	PASS

Test Graphs





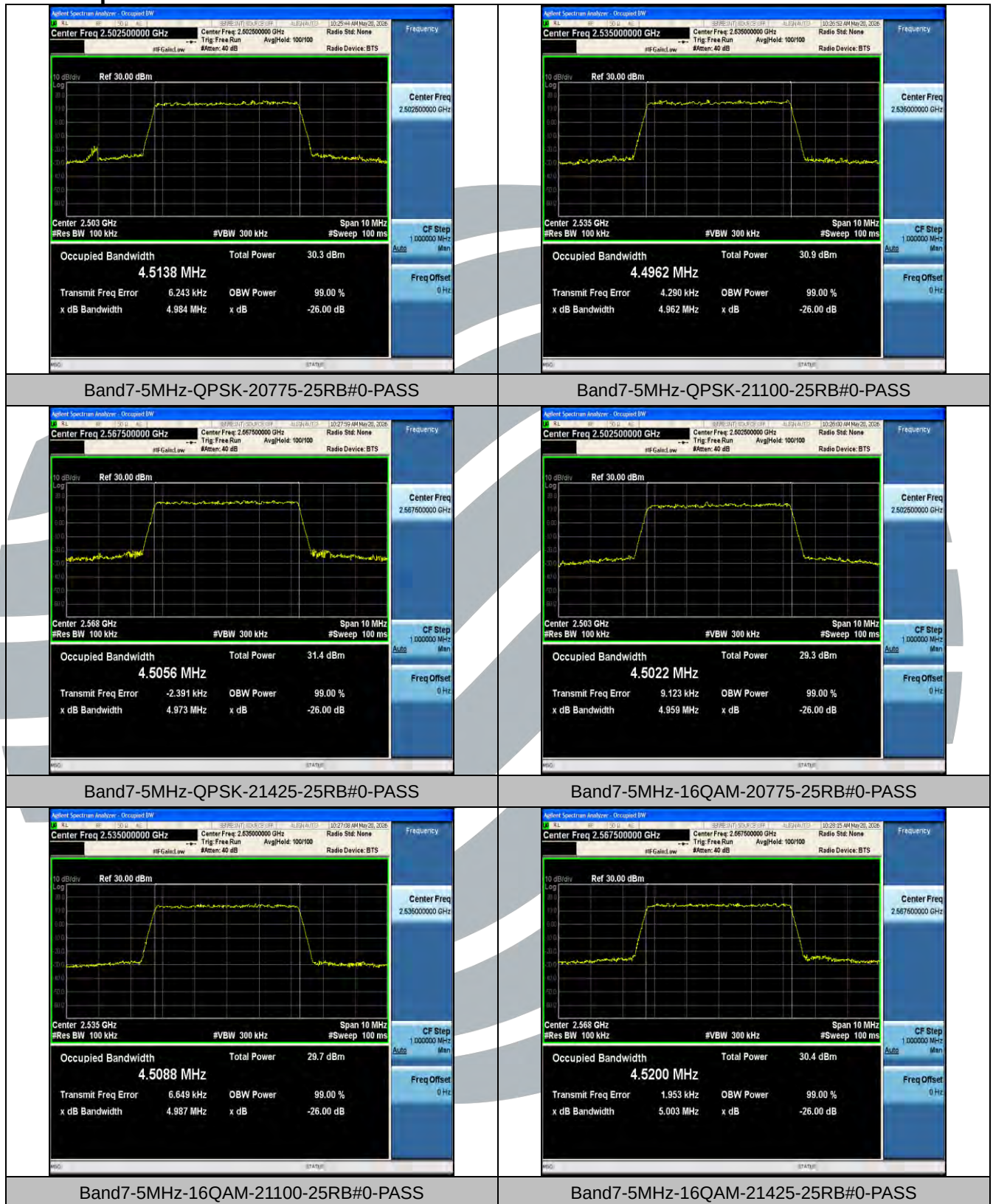


A.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

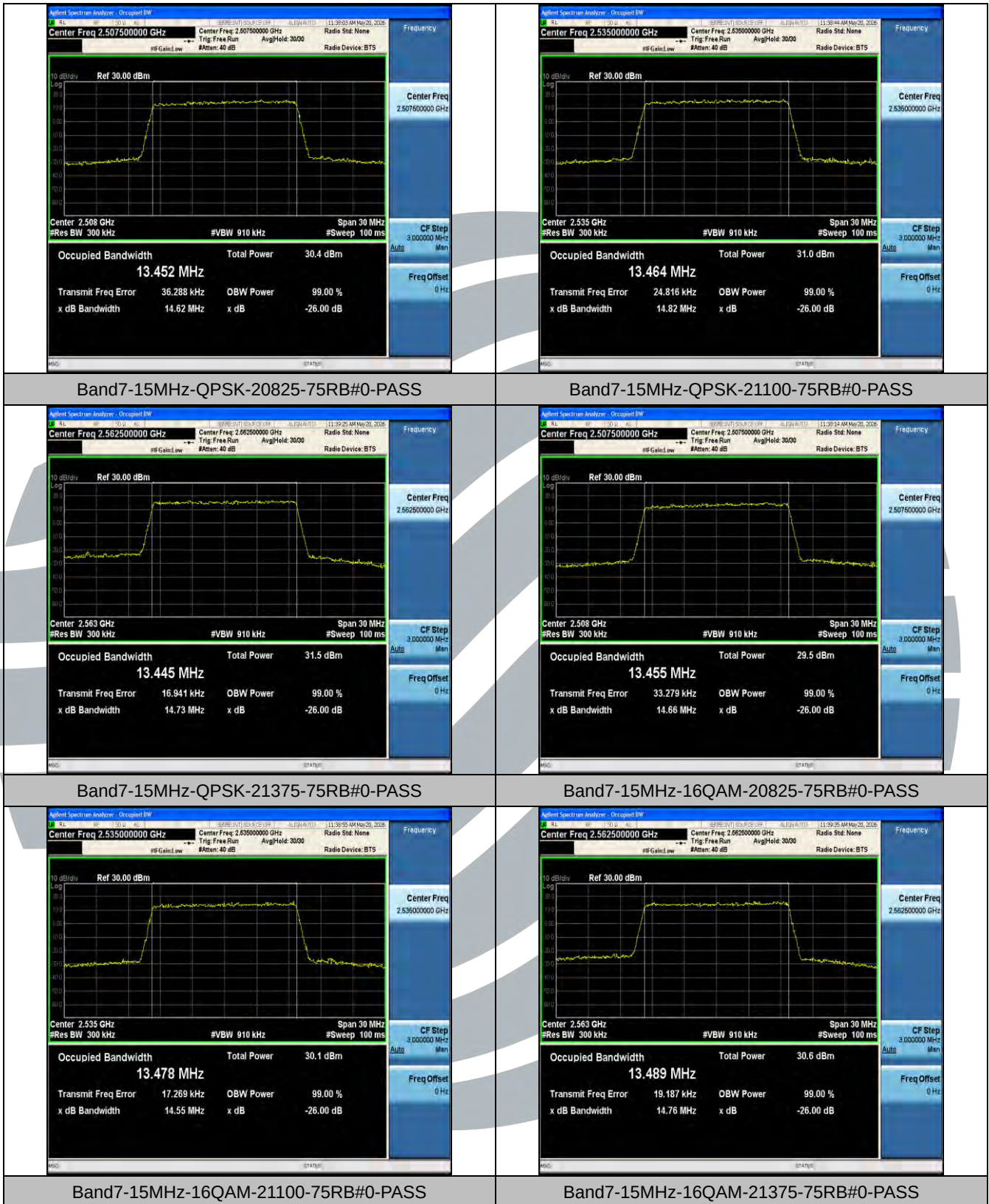
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5138	4.984	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4962	4.962	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5056	4.973	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5022	4.959	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5088	4.987	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5200	5.003	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9782	9.814	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9841	9.813	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9716	9.848	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9744	9.766	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9783	9.820	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9821	9.821	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.452	14.62	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.464	14.82	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.445	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.455	14.66	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.478	14.55	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.489	14.76	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.889	19.45	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.950	19.71	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.979	19.50	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.903	19.39	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.925	19.53	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.980	19.69	PASS

Test Graphs







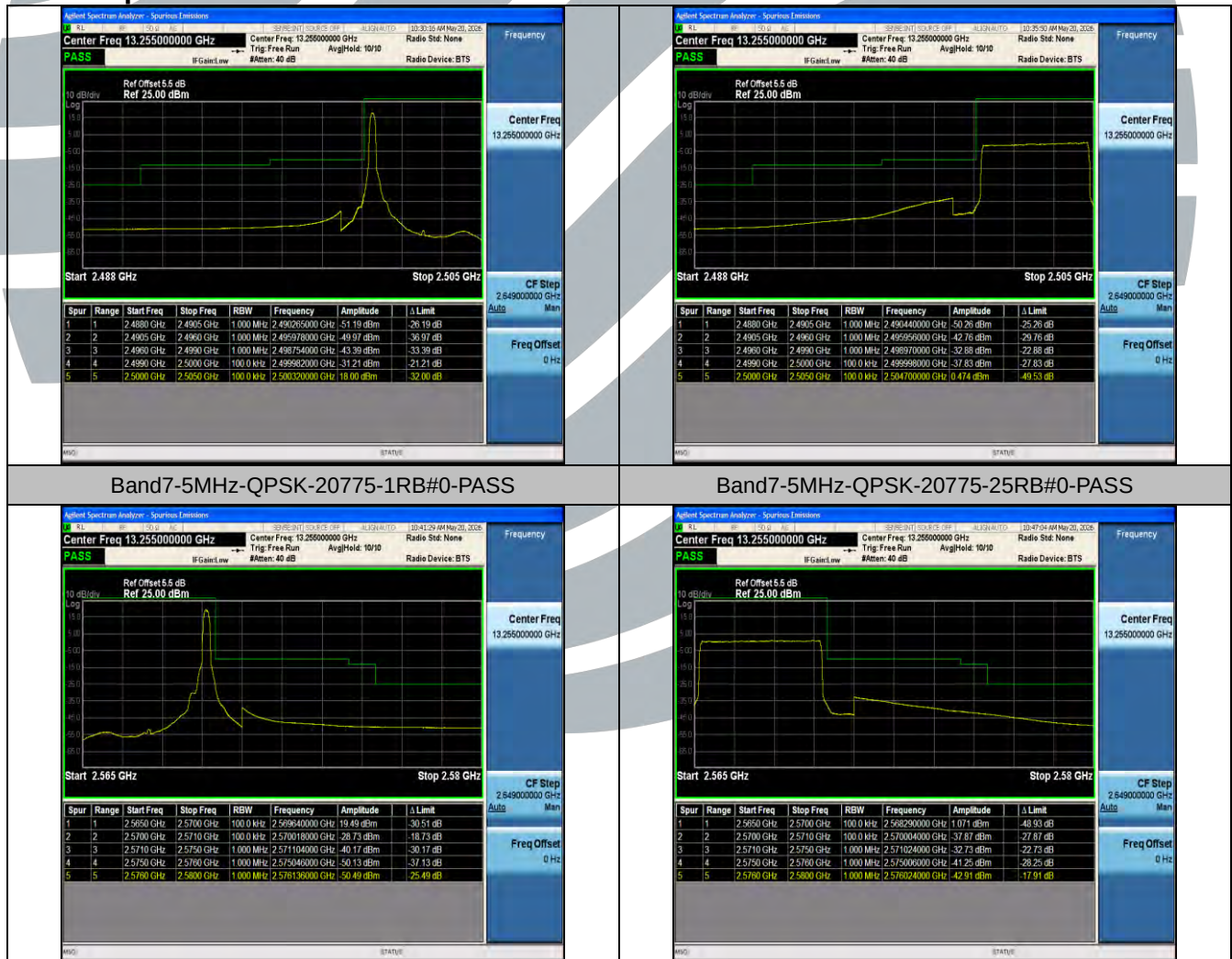


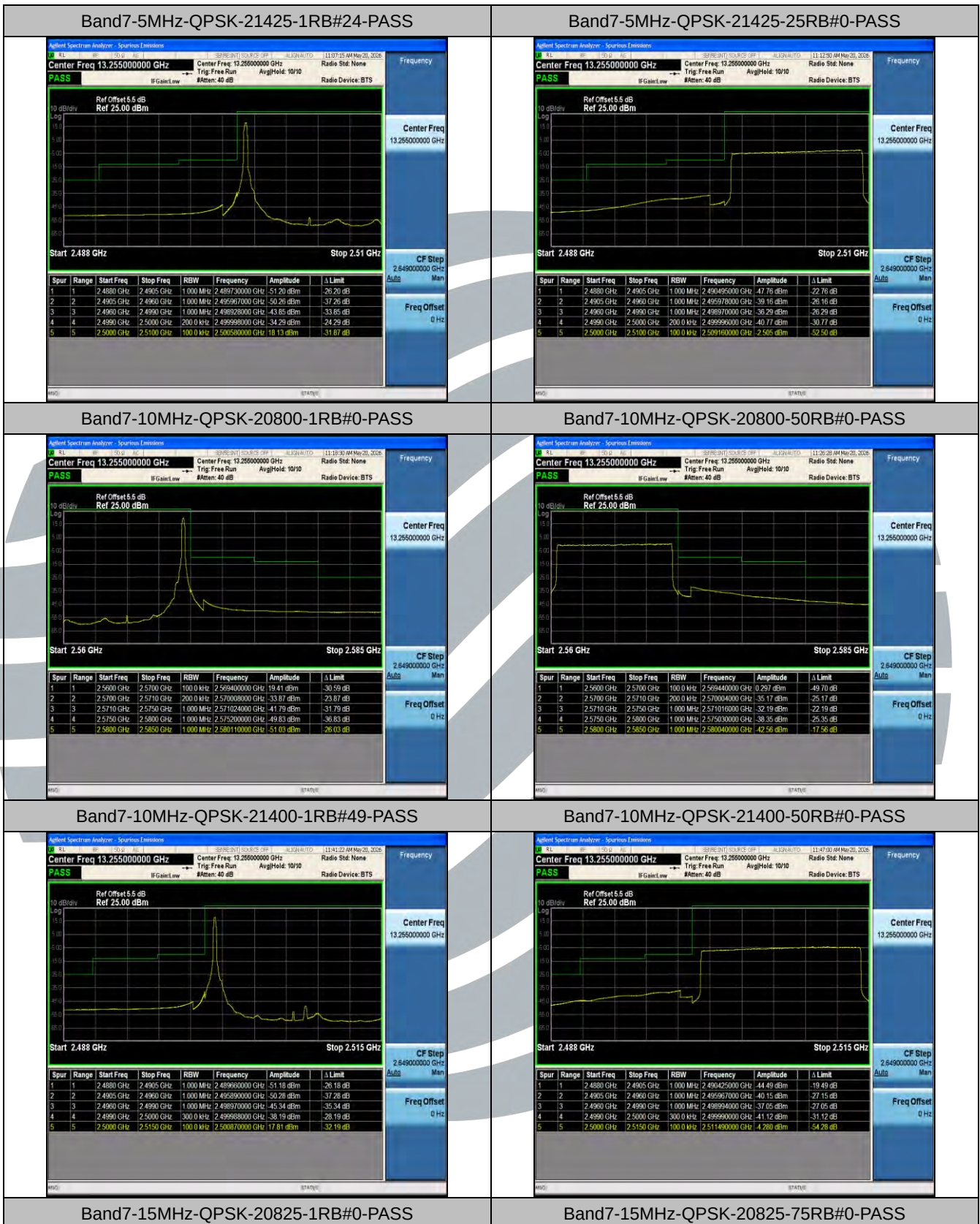
A.3 BAND EDGE

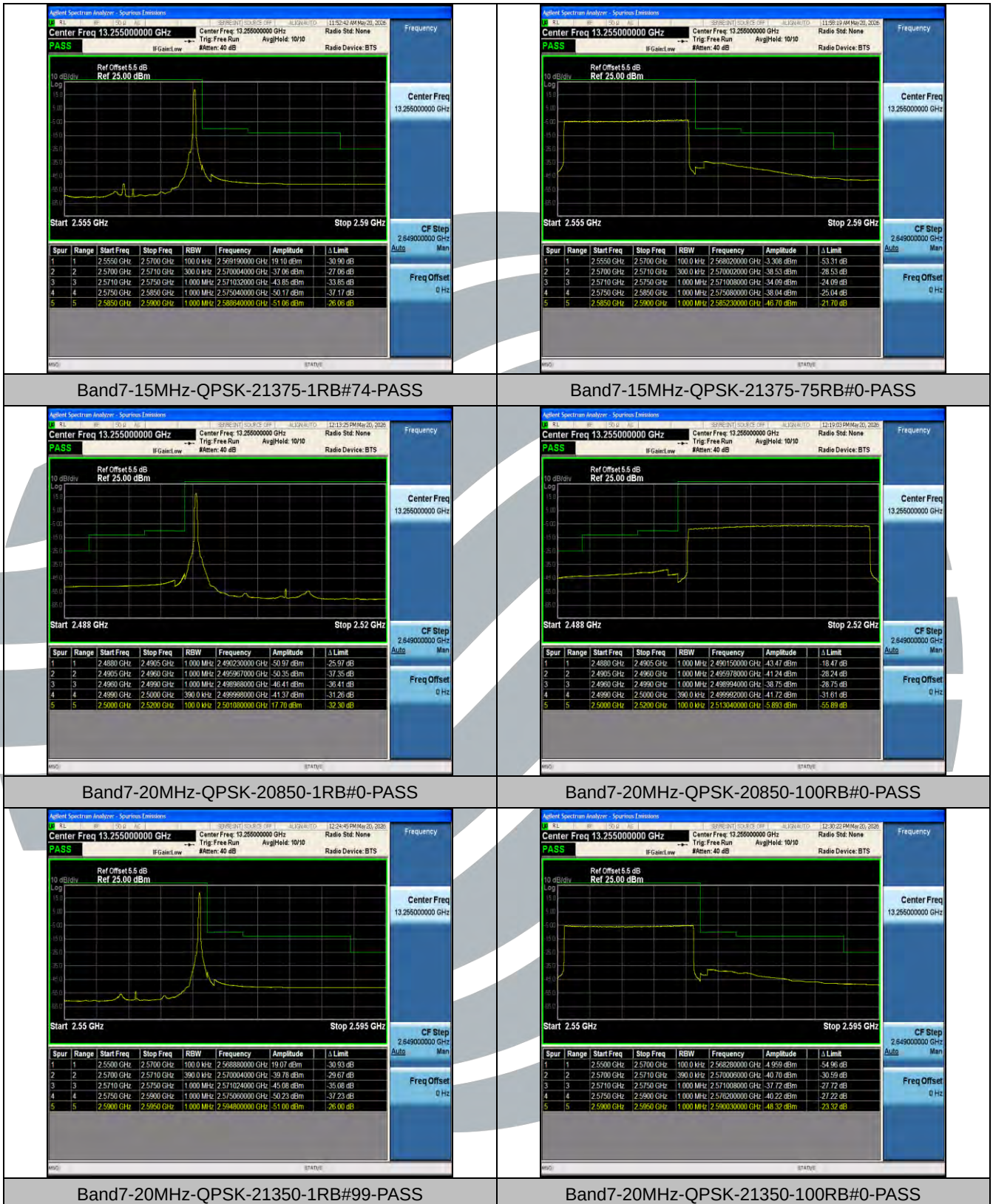
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-31.21	PASS
Band7	5MHz	QPSK	20775	25RB#0	-32.88	PASS
Band7	5MHz	QPSK	21425	1RB#24	-28.73	PASS
Band7	5MHz	QPSK	21425	25RB#0	-42.91	PASS
Band7	10MHz	QPSK	20800	1RB#0	-34.29	PASS
Band7	10MHz	QPSK	20800	50RB#0	-47.76	PASS
Band7	10MHz	QPSK	21400	1RB#49	-33.87	PASS
Band7	10MHz	QPSK	21400	50RB#0	-42.56	PASS
Band7	15MHz	QPSK	20825	1RB#0	-51.18	PASS
Band7	15MHz	QPSK	20825	75RB#0	-44.49	PASS
Band7	15MHz	QPSK	21375	1RB#74	-51.06	PASS
Band7	15MHz	QPSK	21375	75RB#0	-46.70	PASS
Band7	20MHz	QPSK	20850	1RB#0	-50.97	PASS
Band7	20MHz	QPSK	20850	100RB#0	-43.47	PASS
Band7	20MHz	QPSK	21350	1RB#99	-51.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	-48.32	PASS

Test Graphs





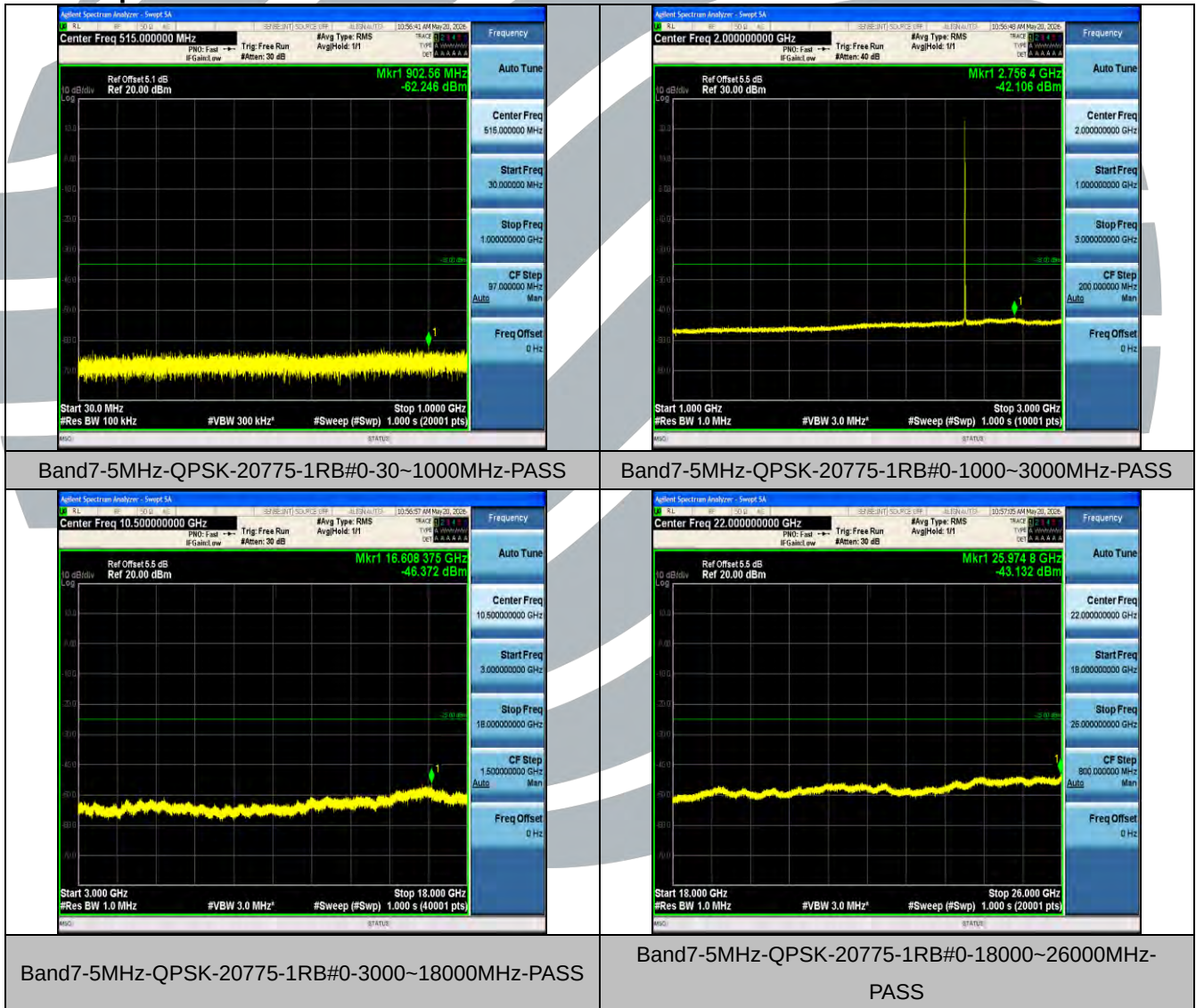


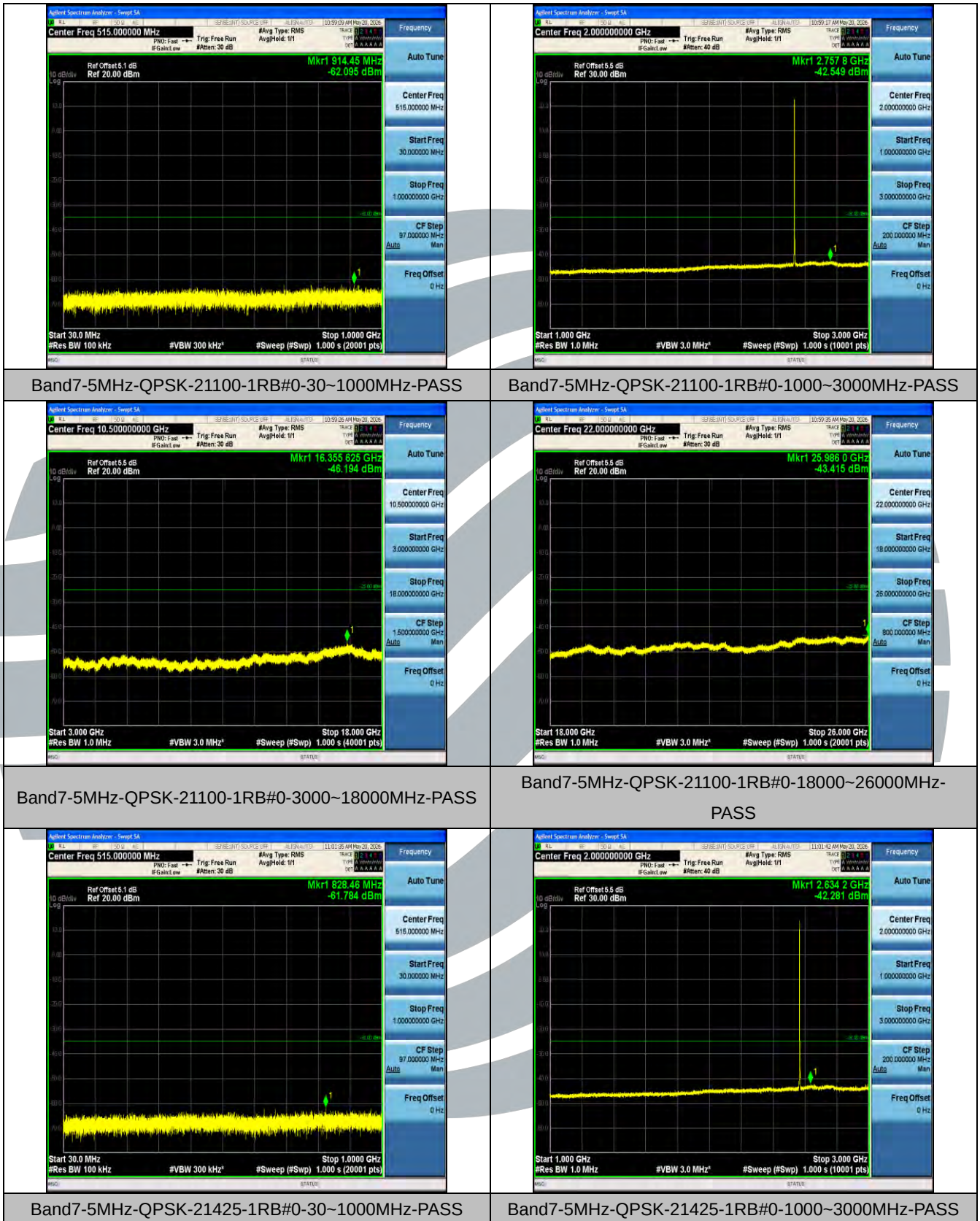
A.4 CONDUCTED SPURIOUS EMISSION

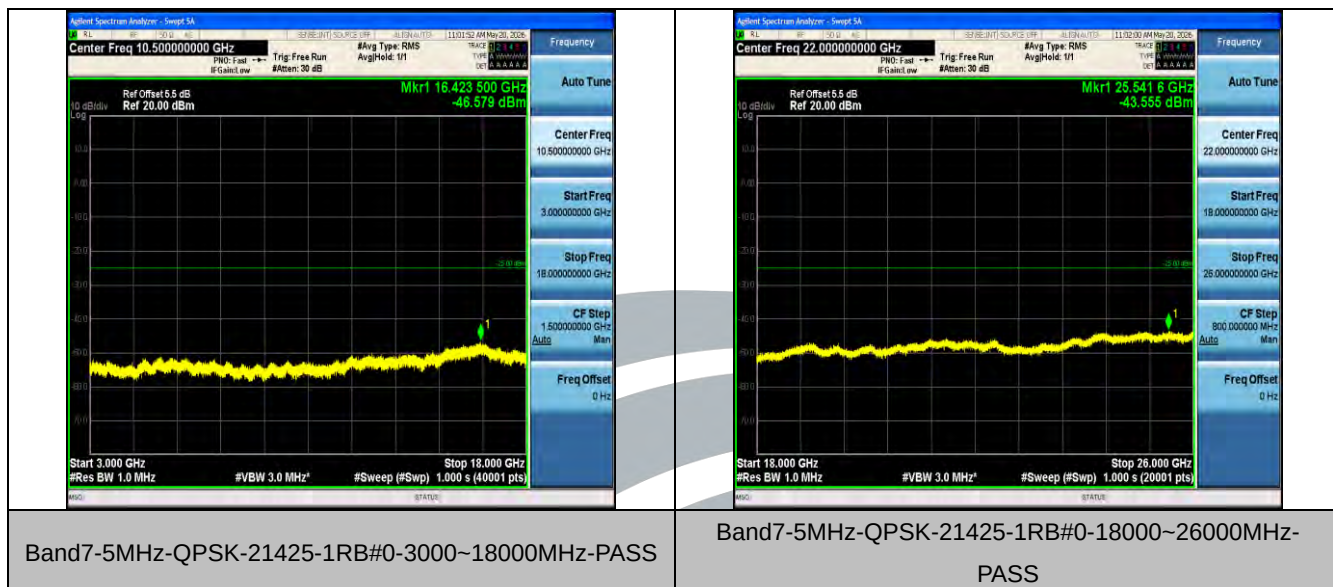
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-62.27	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~3000	-42.31	PASS
Band7	20MHz	QPSK	20850	1RB#0	3000~18000	-46.90	PASS
Band7	20MHz	QPSK	20850	1RB#0	18000~26000	-43.27	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-61.99	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~3000	-42.44	PASS
Band7	20MHz	QPSK	21100	1RB#0	3000~18000	-46.77	PASS
Band7	20MHz	QPSK	21100	1RB#0	18000~26000	-43.19	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-62.12	PASS
Band7	20MHz	QPSK	21350	1RB#0	1000~3000	-42.20	PASS
Band7	20MHz	QPSK	21350	1RB#0	3000~18000	-46.61	PASS
Band7	20MHz	QPSK	21350	1RB#0	18000~26000	-42.90	PASS

Test Graphs







A.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-7.31	-0.002884	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-8.71	-0.003436	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-10.21	-0.004028	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-4.85	-0.001913	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-7.52	-0.002966	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-5.21	-0.002055	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-4.33	-0.001708	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	5.51	0.002174	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	4.22	0.001665	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-6.12	-0.002414	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	4.39	0.001732	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.40	-0.000947	±2.5	PASS