

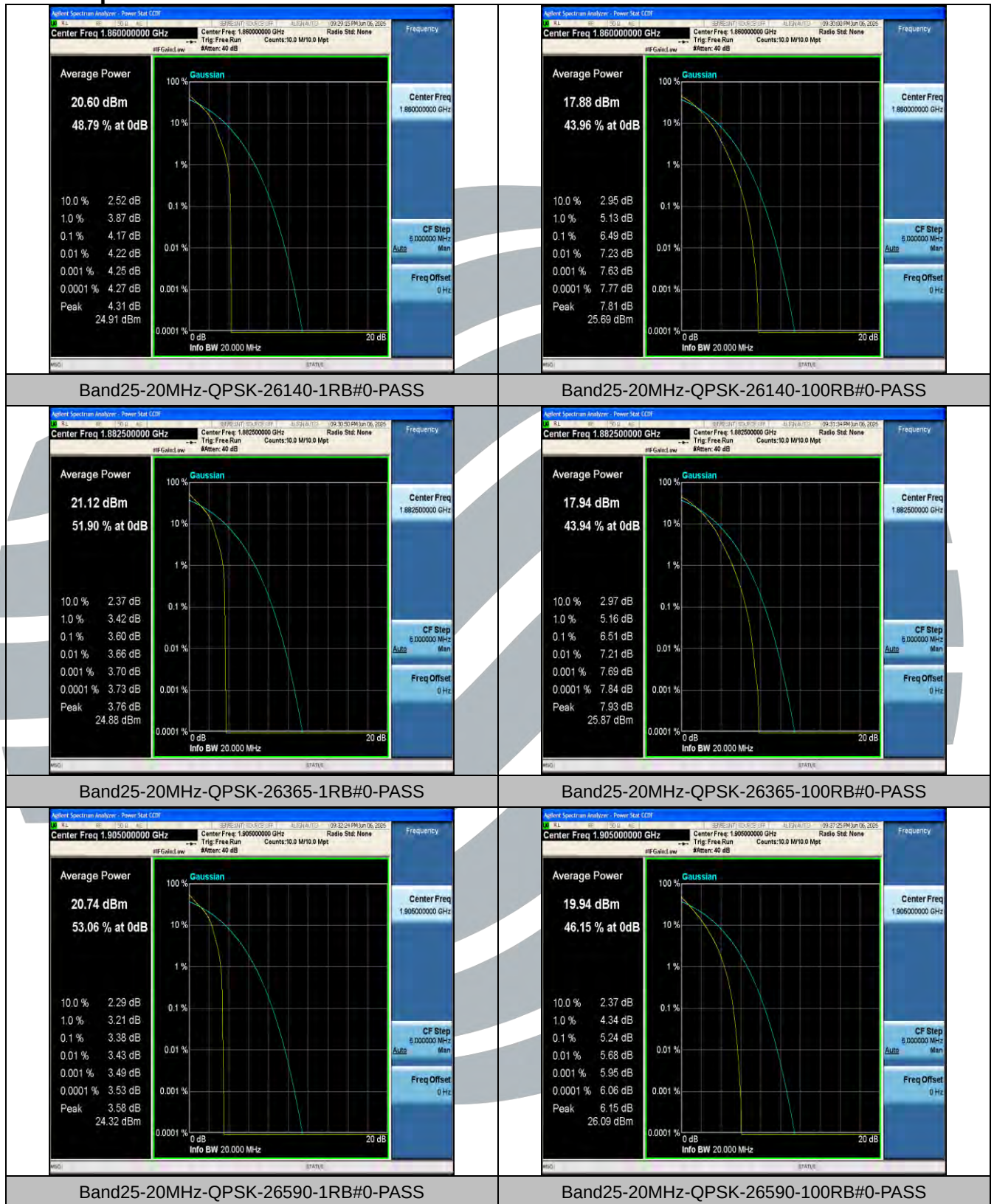
APPENDIX E LTE RF TEST DATA

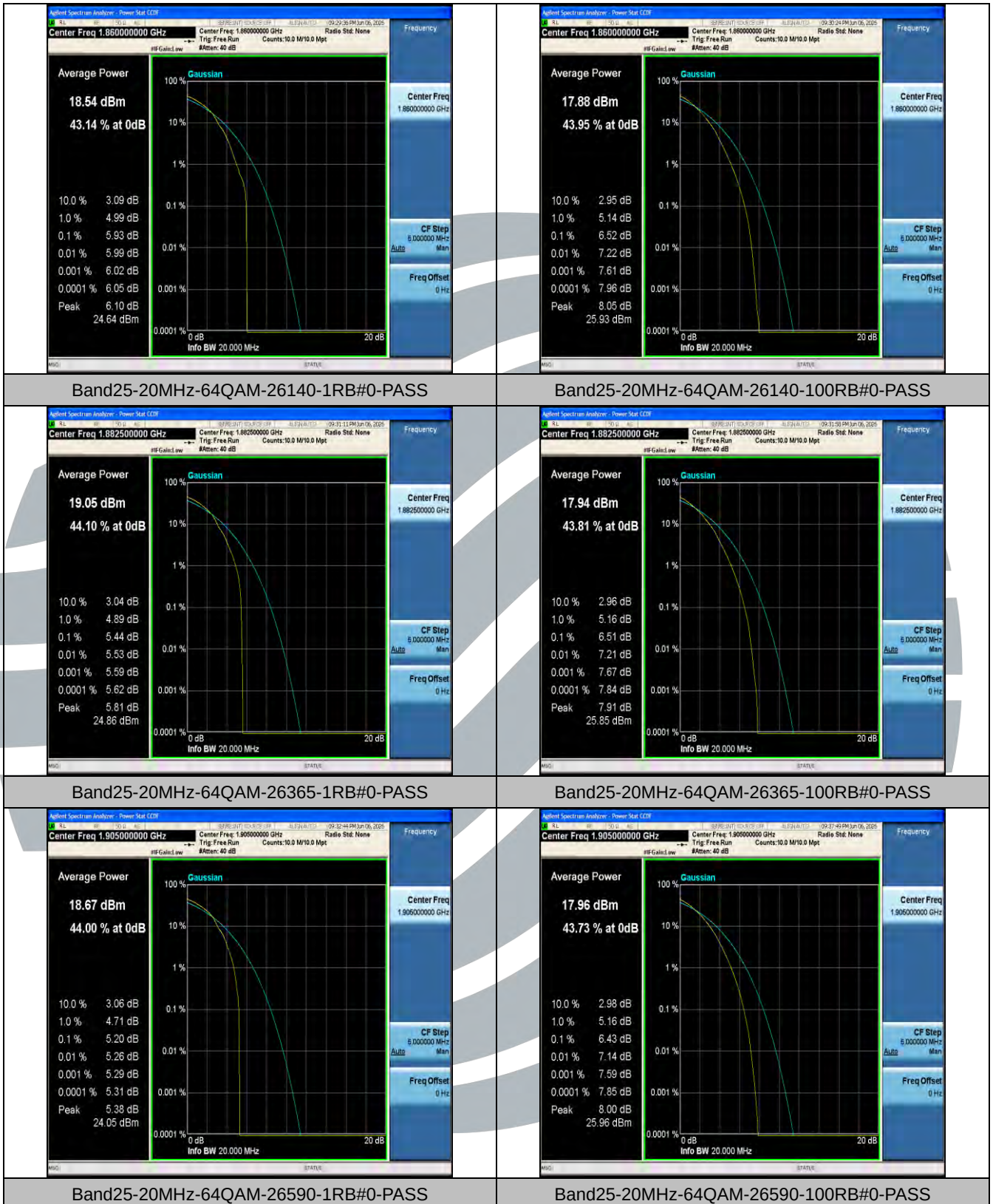
E.1 PEAK-TO-AVERAGE RATIO(CCDF)

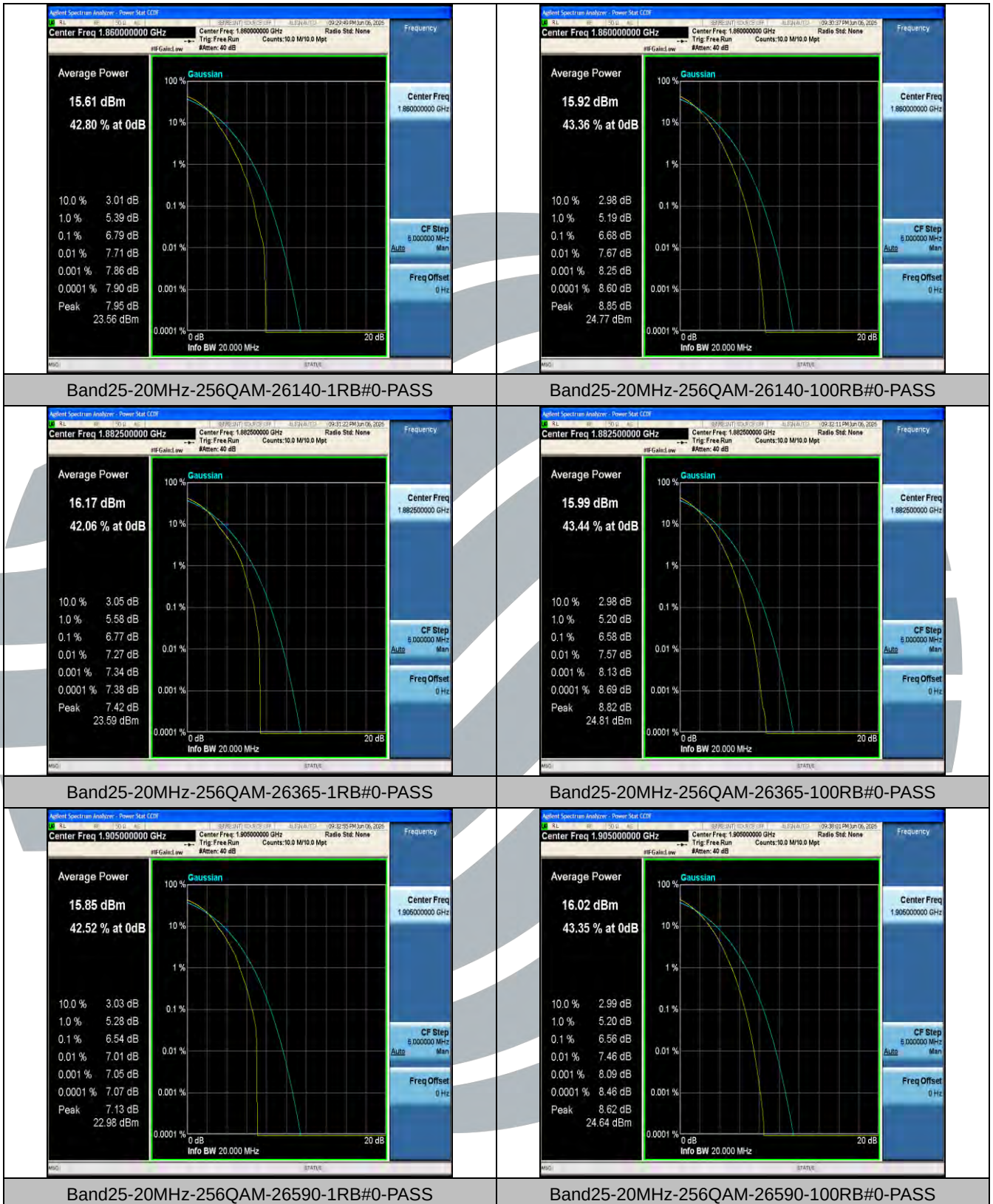
Test Result

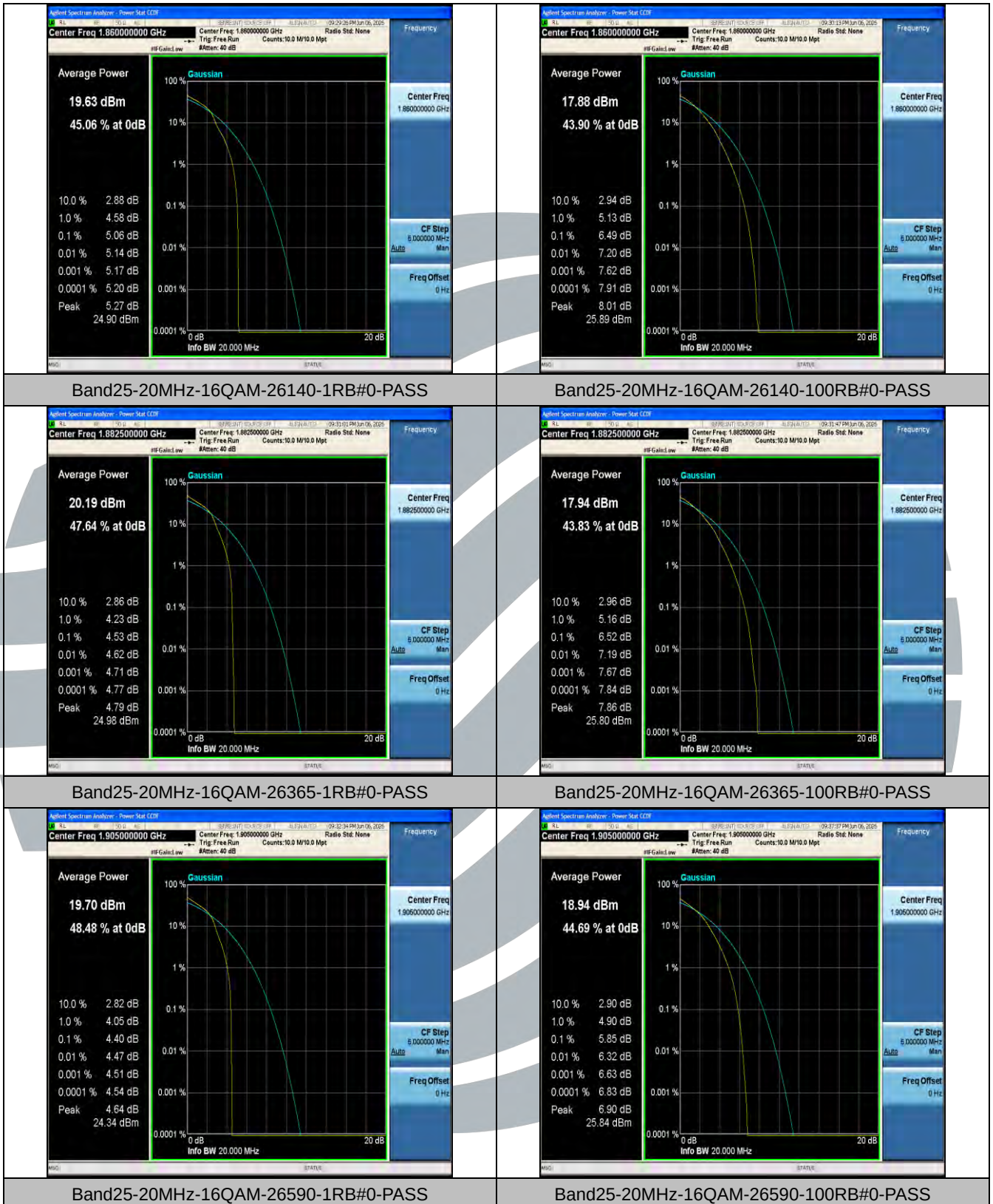
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band25	20MHz	QPSK	26140	1RB#0	4.17	13	PASS
Band25	20MHz	QPSK	26140	100RB#0	6.49	13	PASS
Band25	20MHz	QPSK	26365	1RB#0	3.60	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	6.51	13	PASS
Band25	20MHz	QPSK	26590	1RB#0	3.38	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.24	13	PASS
Band25	20MHz	64QAM	26140	1RB#0	5.93	13	PASS
Band25	20MHz	64QAM	26140	100RB#0	6.52	13	PASS
Band25	20MHz	64QAM	26365	1RB#0	5.44	13	PASS
Band25	20MHz	64QAM	26365	100RB#0	6.51	13	PASS
Band25	20MHz	64QAM	26590	1RB#0	5.20	13	PASS
Band25	20MHz	64QAM	26590	100RB#0	6.43	13	PASS
Band25	20MHz	256QAM	26140	1RB#0	6.79	13	PASS
Band25	20MHz	256QAM	26140	100RB#0	6.68	13	PASS
Band25	20MHz	256QAM	26365	1RB#0	6.77	13	PASS
Band25	20MHz	256QAM	26365	100RB#0	6.58	13	PASS
Band25	20MHz	256QAM	26590	1RB#0	6.54	13	PASS
Band25	20MHz	256QAM	26590	100RB#0	6.56	13	PASS
Band25	20MHz	16QAM	26140	1RB#0	5.06	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.49	13	PASS
Band25	20MHz	16QAM	26365	1RB#0	4.53	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.52	13	PASS
Band25	20MHz	16QAM	26590	1RB#0	4.40	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	5.85	13	PASS

Test Graphs







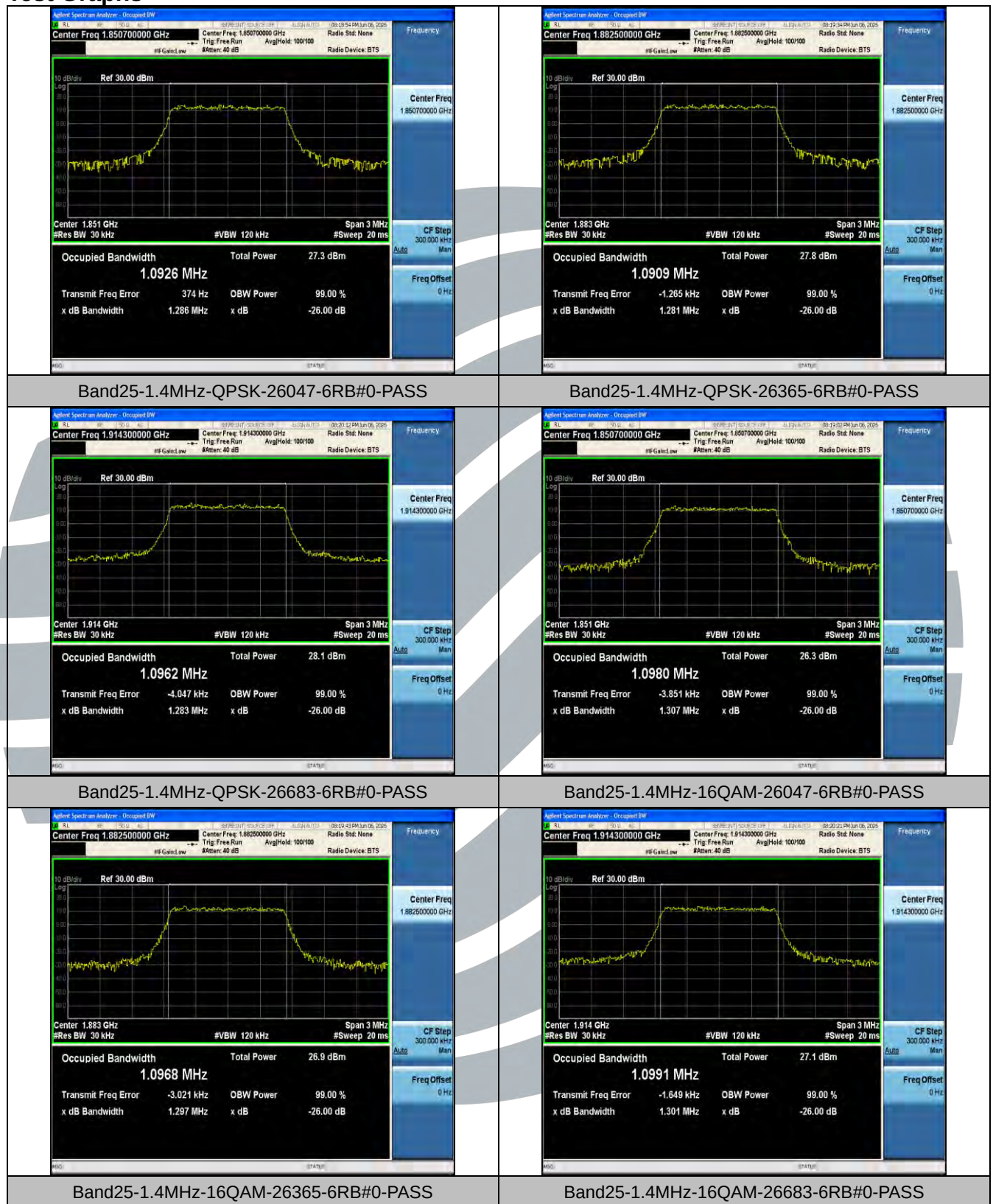


E.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

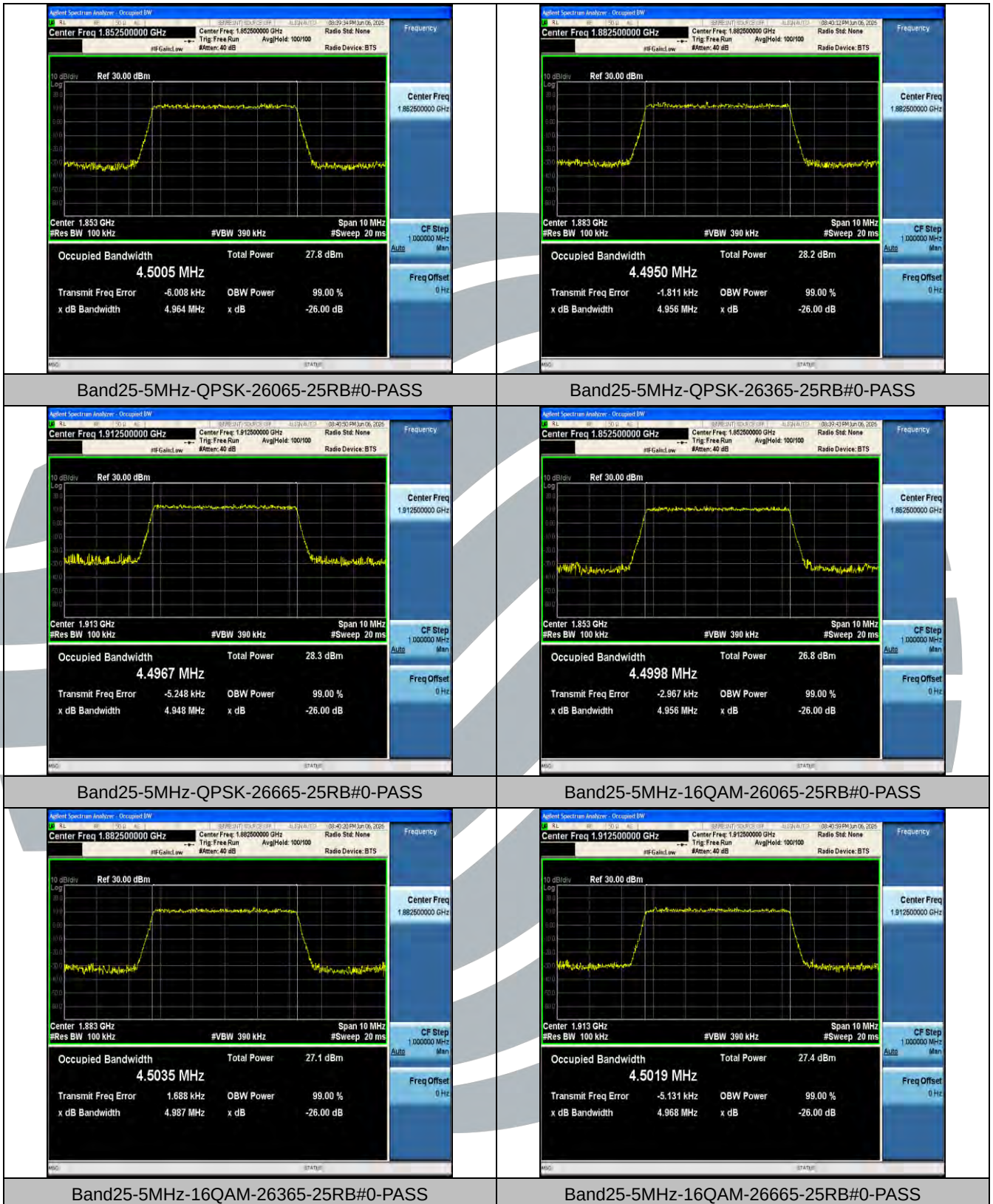
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.0926	1.286	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.0909	1.281	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.0962	1.283	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.0980	1.307	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.0968	1.297	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.0991	1.301	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.6944	2.935	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.6968	2.948	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.6989	2.933	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.6847	2.945	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.6891	2.933	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.6951	2.935	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.5005	4.964	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.4950	4.956	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.4967	4.948	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.4998	4.956	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.5035	4.987	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.5019	4.968	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.9864	9.808	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.9836	9.854	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.9617	9.808	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.9853	9.768	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.9910	9.789	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.9760	9.795	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.484	14.75	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.485	14.68	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.469	14.64	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.467	14.95	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.479	14.72	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.487	14.71	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.970	19.39	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.976	19.63	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.922	19.41	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.986	19.34	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.962	19.43	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.963	19.44	PASS

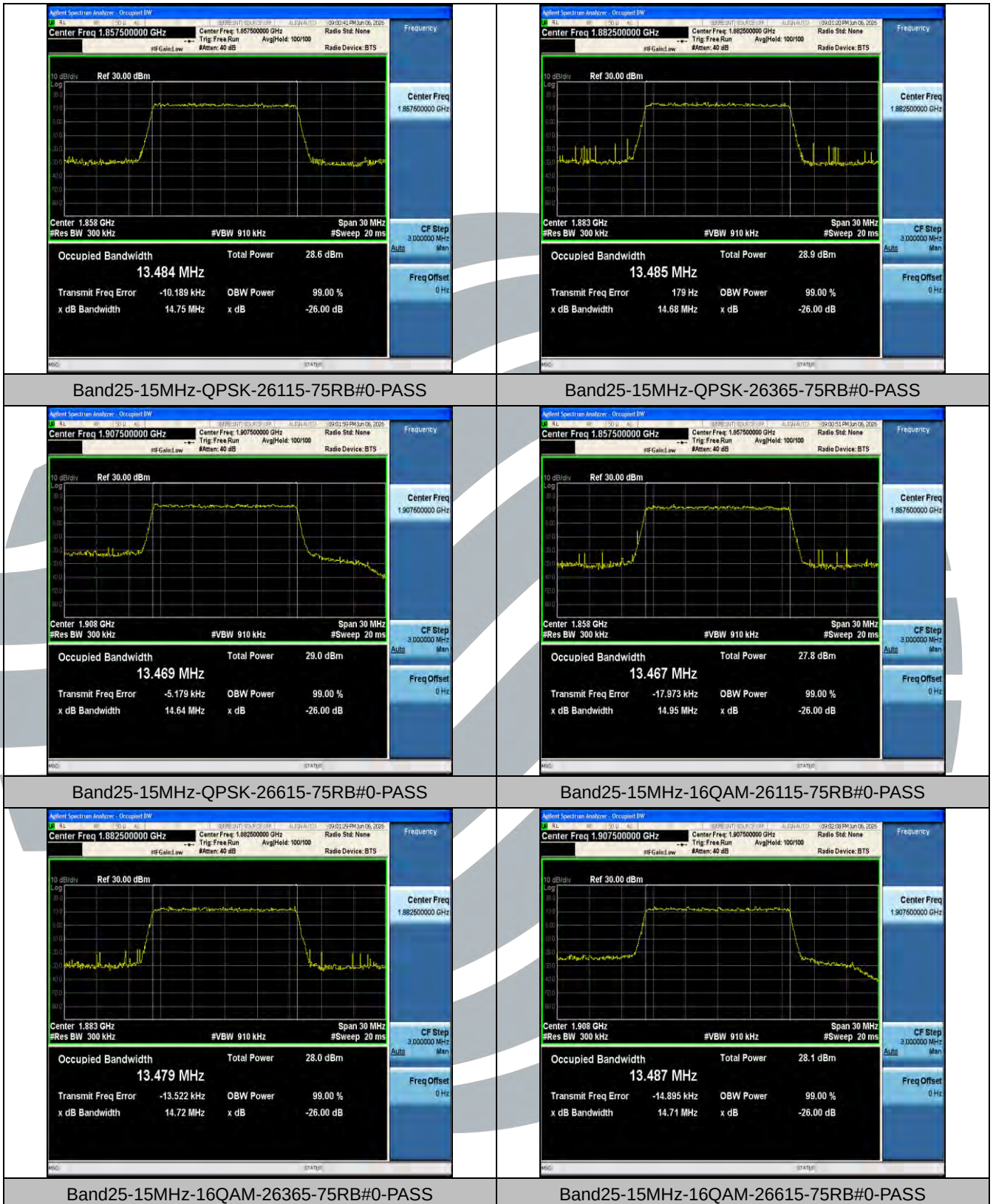
Test Graphs









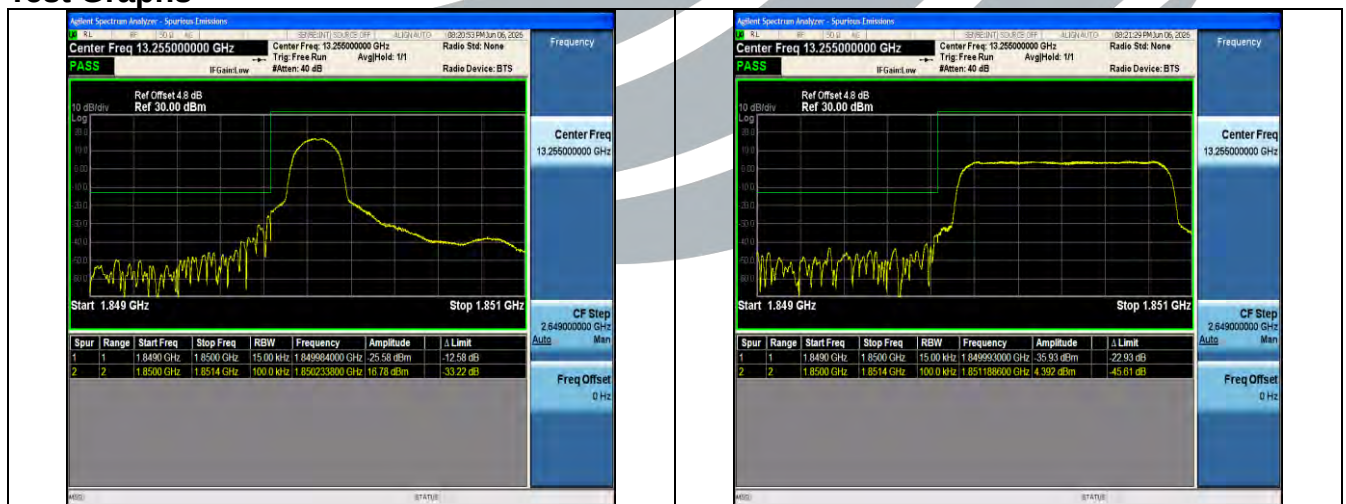


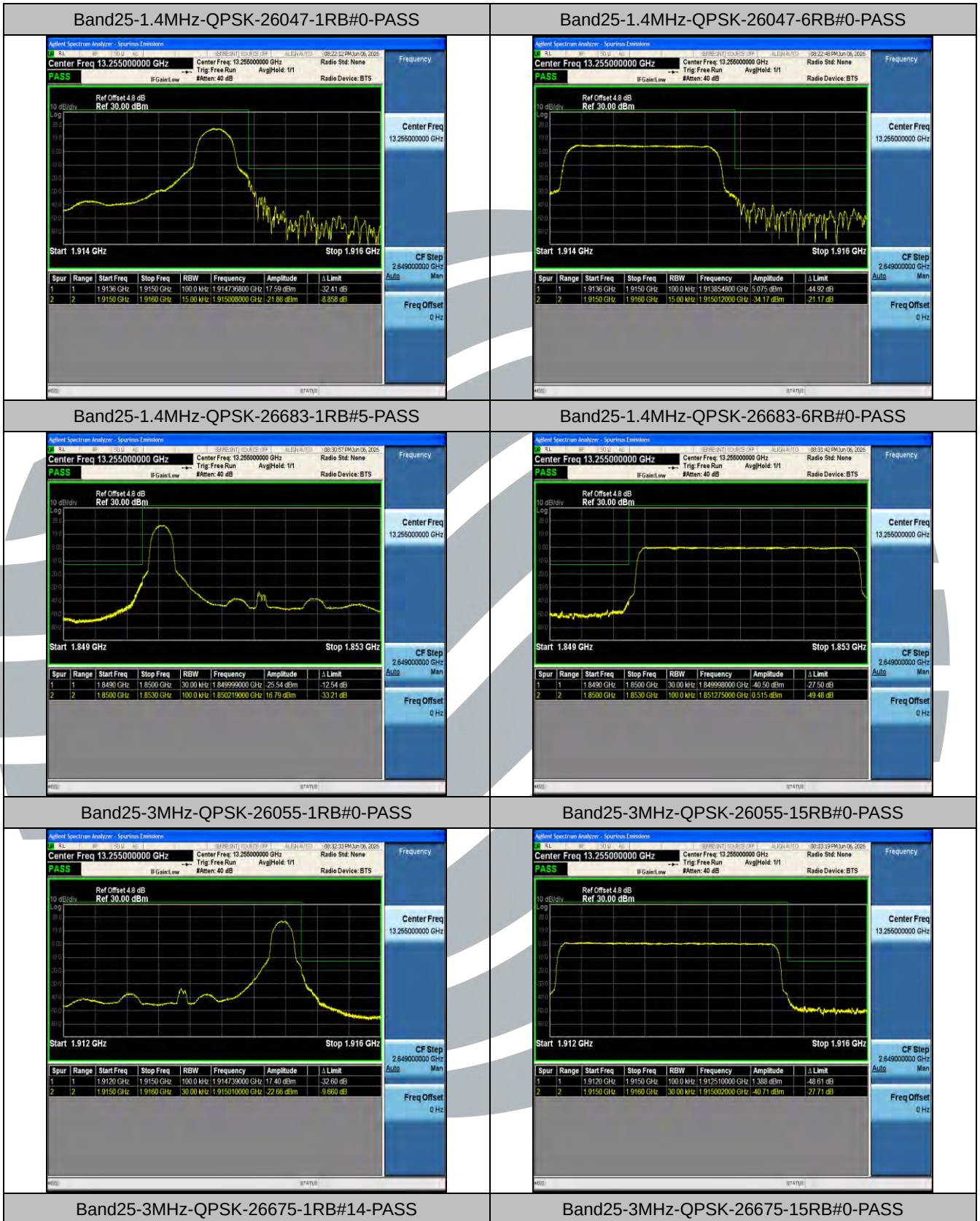


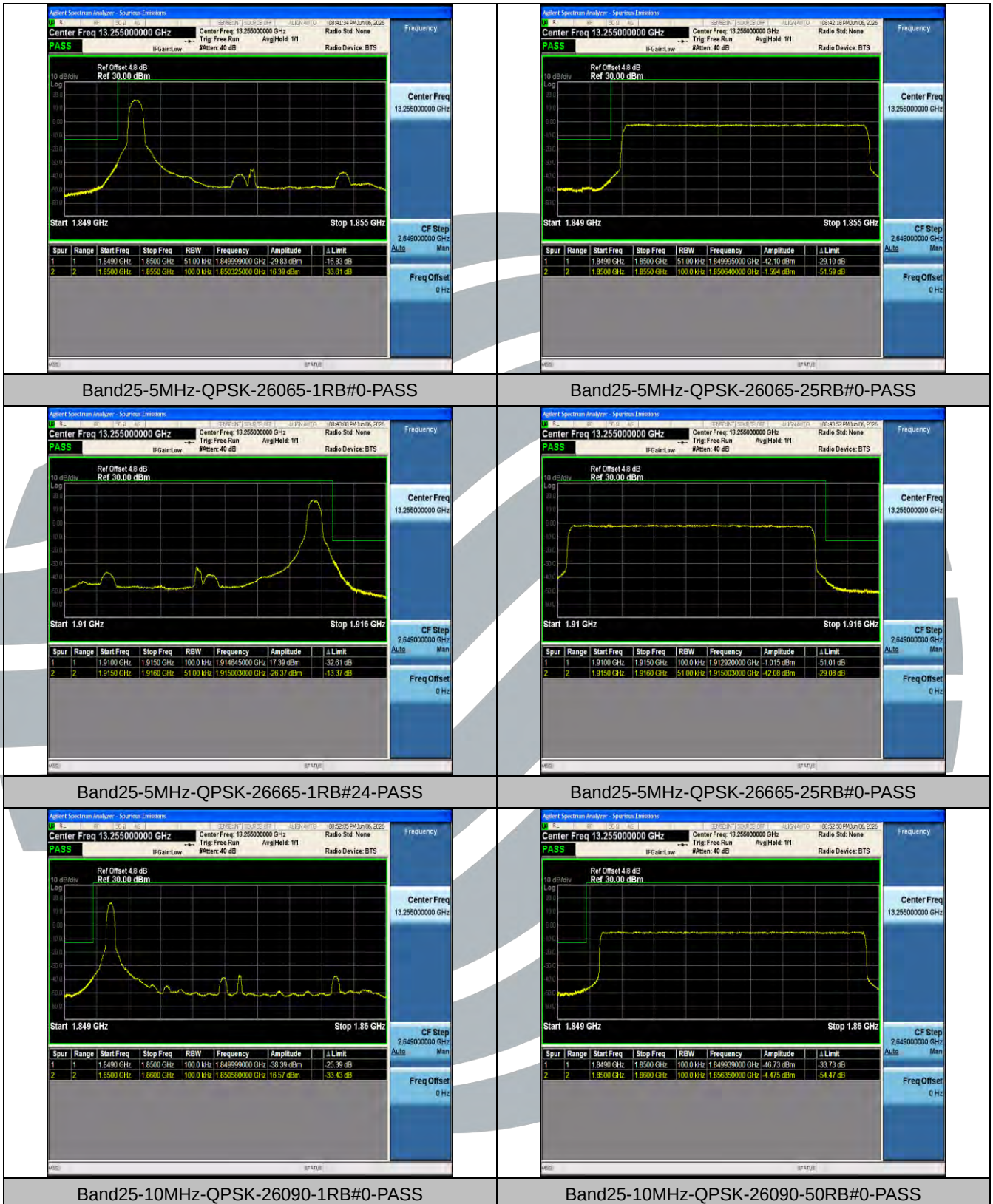
E.3 BAND EDGE Test Result

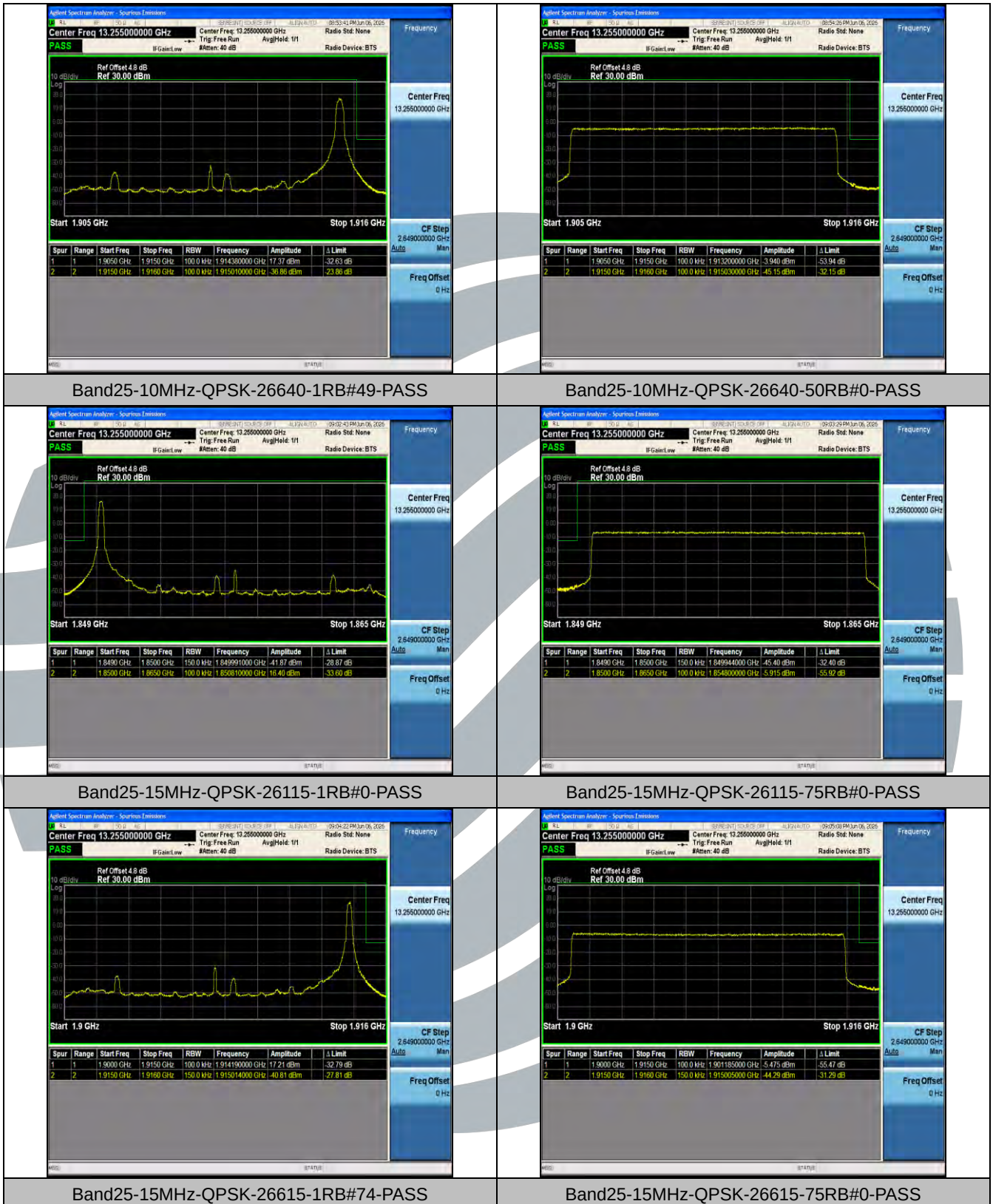
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	-25.58	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	-35.93	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	-21.86	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	-34.17	PASS
Band25	3MHz	QPSK	26055	1RB#0	-25.54	PASS
Band25	3MHz	QPSK	26055	15RB#0	-40.50	PASS
Band25	3MHz	QPSK	26675	1RB#14	-22.66	PASS
Band25	3MHz	QPSK	26675	15RB#0	-40.71	PASS
Band25	5MHz	QPSK	26065	1RB#0	-29.83	PASS
Band25	5MHz	QPSK	26065	25RB#0	-42.10	PASS
Band25	5MHz	QPSK	26665	1RB#24	-26.37	PASS
Band25	5MHz	QPSK	26665	25RB#0	-42.08	PASS
Band25	10MHz	QPSK	26090	1RB#0	-38.39	PASS
Band25	10MHz	QPSK	26090	50RB#0	-46.73	PASS
Band25	10MHz	QPSK	26640	1RB#49	-36.86	PASS
Band25	10MHz	QPSK	26640	50RB#0	-45.15	PASS
Band25	15MHz	QPSK	26115	1RB#0	-41.87	PASS
Band25	15MHz	QPSK	26115	75RB#0	-45.40	PASS
Band25	15MHz	QPSK	26615	1RB#74	-40.81	PASS
Band25	15MHz	QPSK	26615	75RB#0	-44.29	PASS
Band25	20MHz	QPSK	26140	1RB#0	-43.48	PASS
Band25	20MHz	QPSK	26140	100RB#0	-38.80	PASS
Band25	20MHz	QPSK	26590	1RB#99	-43.14	PASS
Band25	20MHz	QPSK	26590	100RB#0	-37.27	PASS

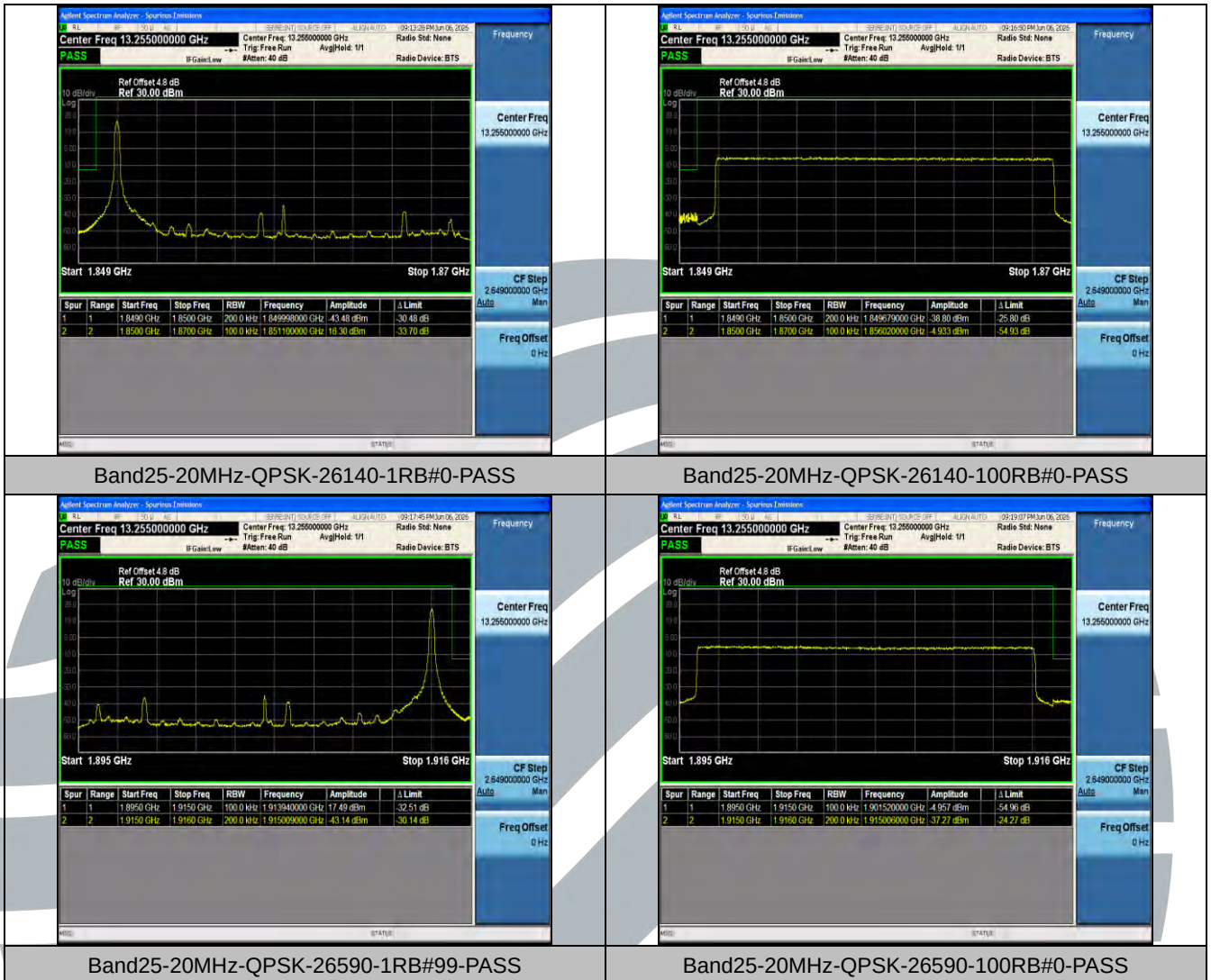
Test Graphs









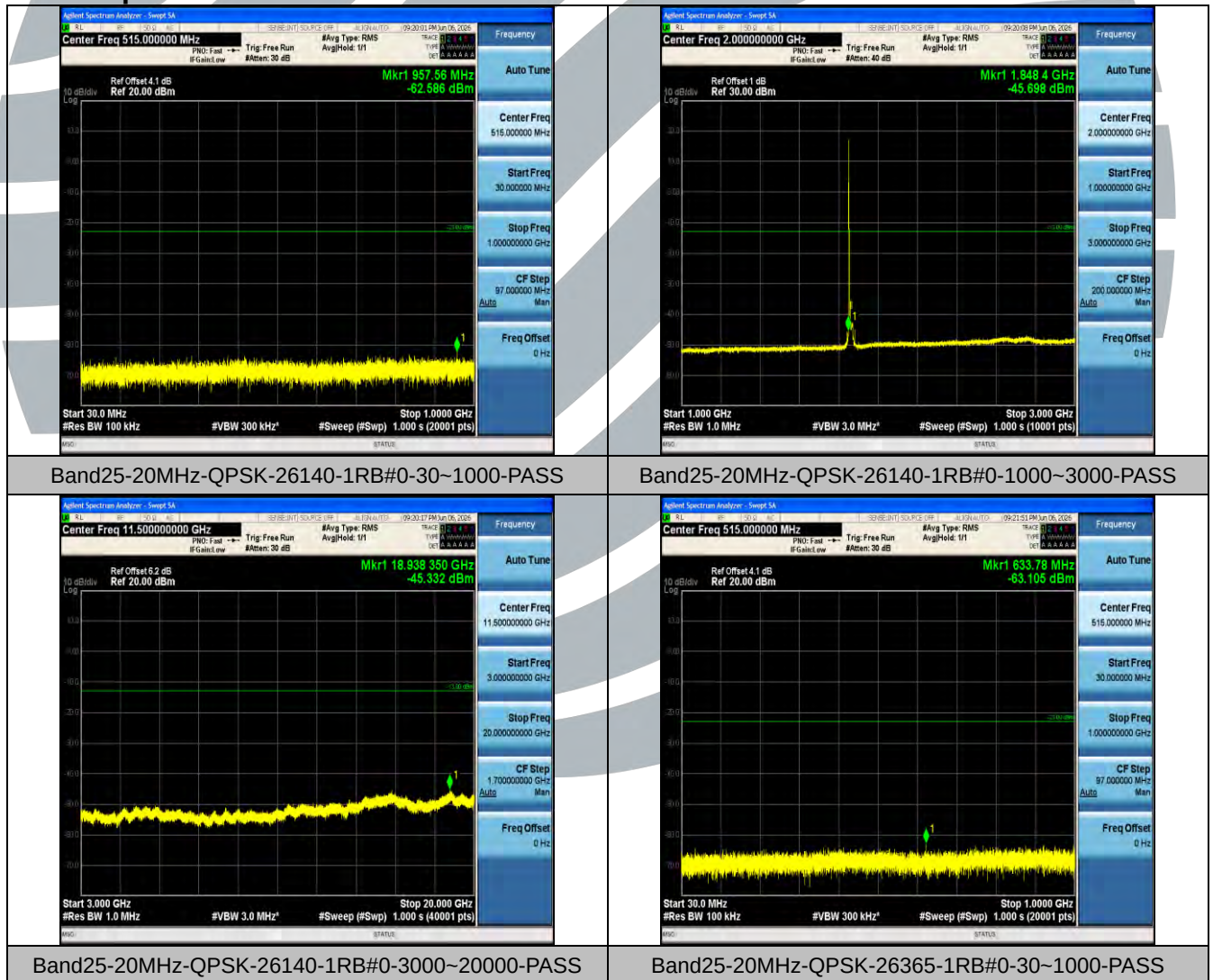


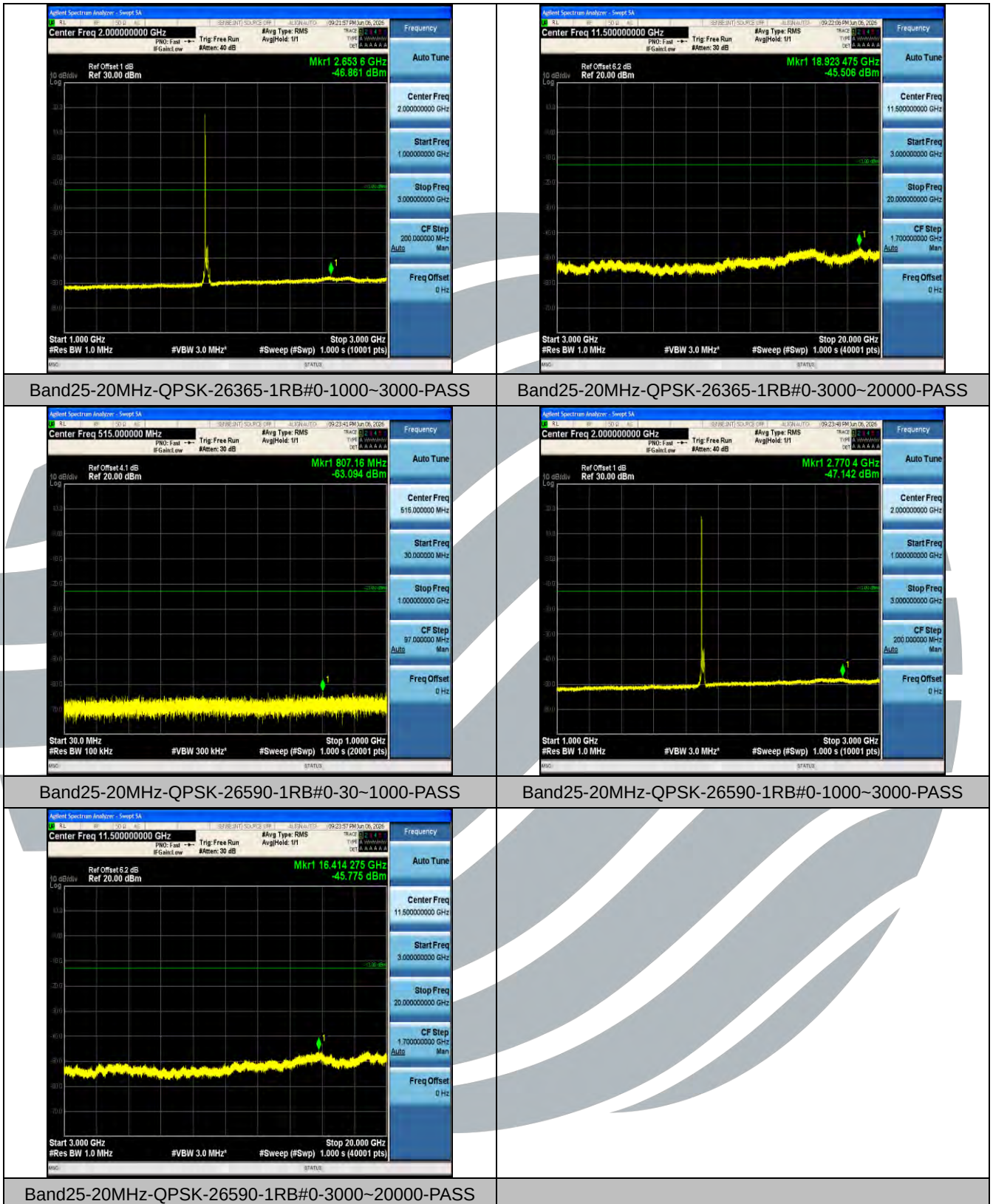
E.4 CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band25	20MHz	QPSK	26140	1RB#0	30~1000	-62.59	PASS
Band25	20MHz	QPSK	26140	1RB#0	1000~3000	-45.70	PASS
Band25	20MHz	QPSK	26140	1RB#0	3000~20000	-45.33	PASS
Band25	20MHz	QPSK	26365	1RB#0	30~1000	-63.11	PASS
Band25	20MHz	QPSK	26365	1RB#0	1000~3000	-46.86	PASS
Band25	20MHz	QPSK	26365	1RB#0	3000~20000	-45.51	PASS
Band25	20MHz	QPSK	26590	1RB#0	30~1000	-63.09	PASS
Band25	20MHz	QPSK	26590	1RB#0	1000~3000	-47.14	PASS
Band25	20MHz	QPSK	26590	1RB#0	3000~20000	-45.78	PASS

Test Graphs





E.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	60.00	0.031873	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	290.00	0.154050	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	500.00	0.265604	±NA	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	50.00	0.026560	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	630.00	0.334661	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	430.00	0.228420	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	820.00	0.435591	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	390.00	0.207171	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	740.00	0.393094	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	160.00	0.084993	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	570.00	0.302789	±NA	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	410.00	0.217795	±NA	PASS