

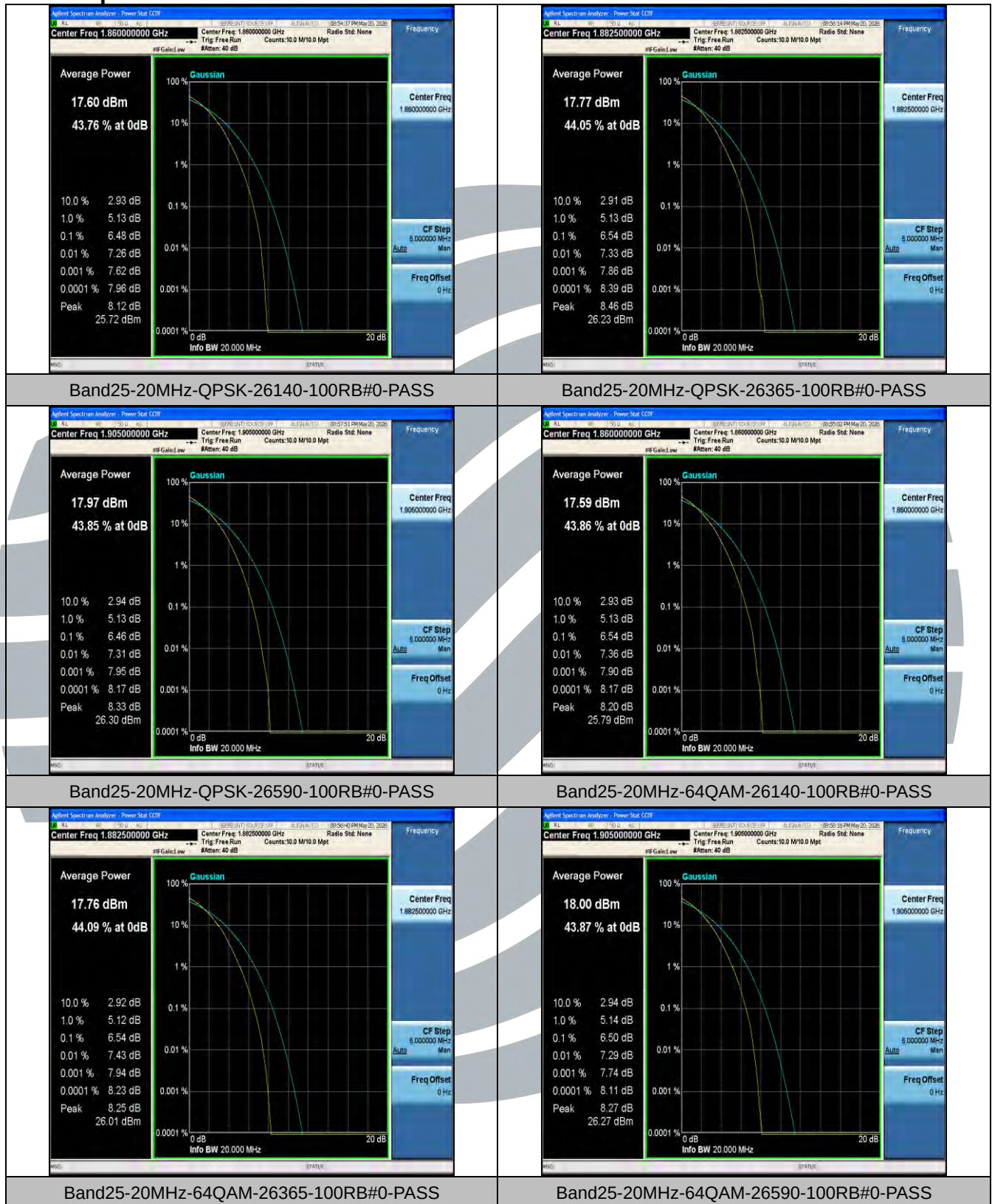
APPENDIX E LTE BAND 25 RF TEST DATA

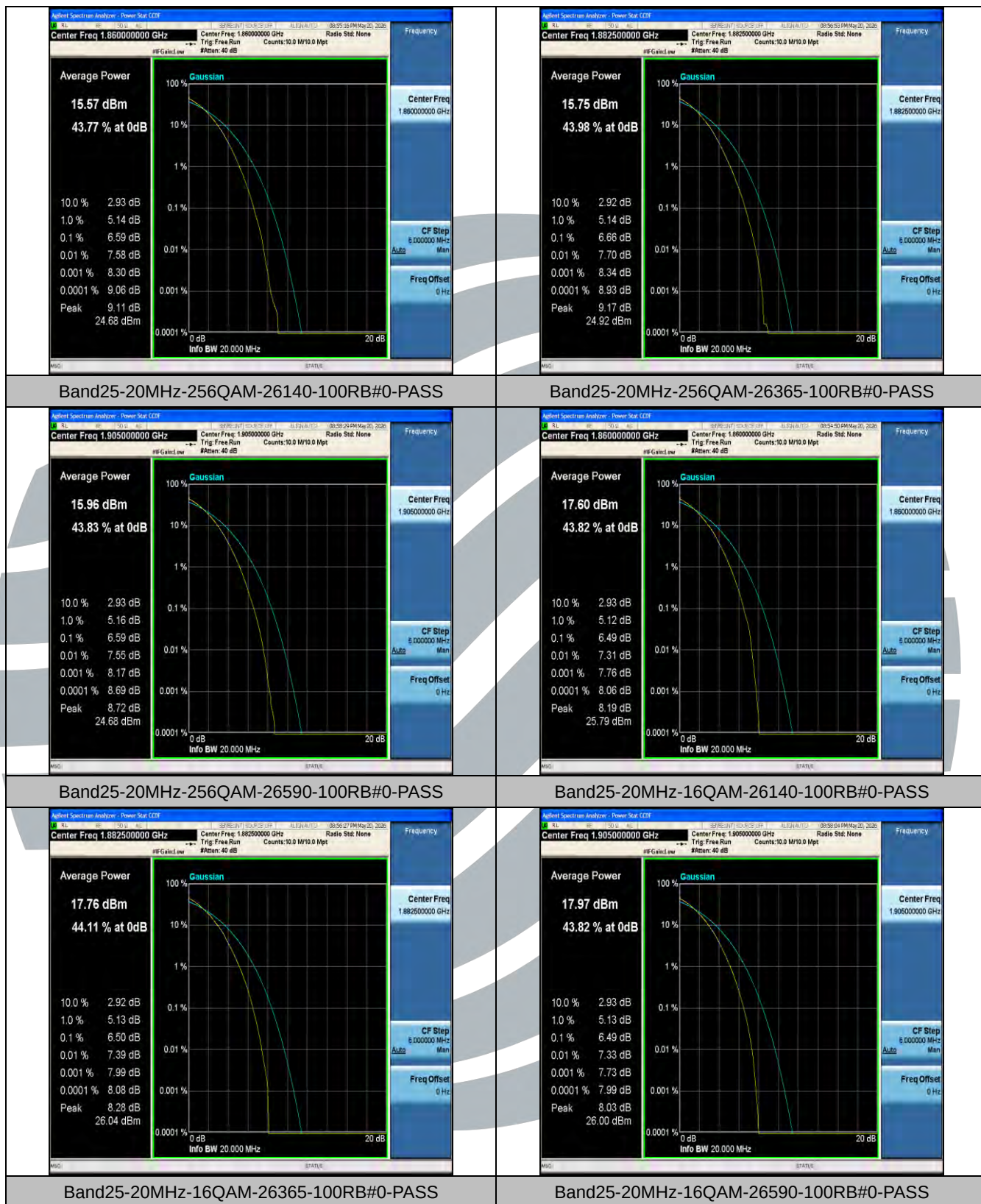
E.1 PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	6.48	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	6.54	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	6.46	13	PASS
Band25	20MHz	64QAM	26140	100RB#0	6.54	13	PASS
Band25	20MHz	64QAM	26365	100RB#0	6.54	13	PASS
Band25	20MHz	64QAM	26590	100RB#0	6.50	13	PASS
Band25	20MHz	256QAM	26140	100RB#0	6.59	13	PASS
Band25	20MHz	256QAM	26365	100RB#0	6.66	13	PASS
Band25	20MHz	256QAM	26590	100RB#0	6.59	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.49	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.50	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.49	13	PASS

Test Graphs



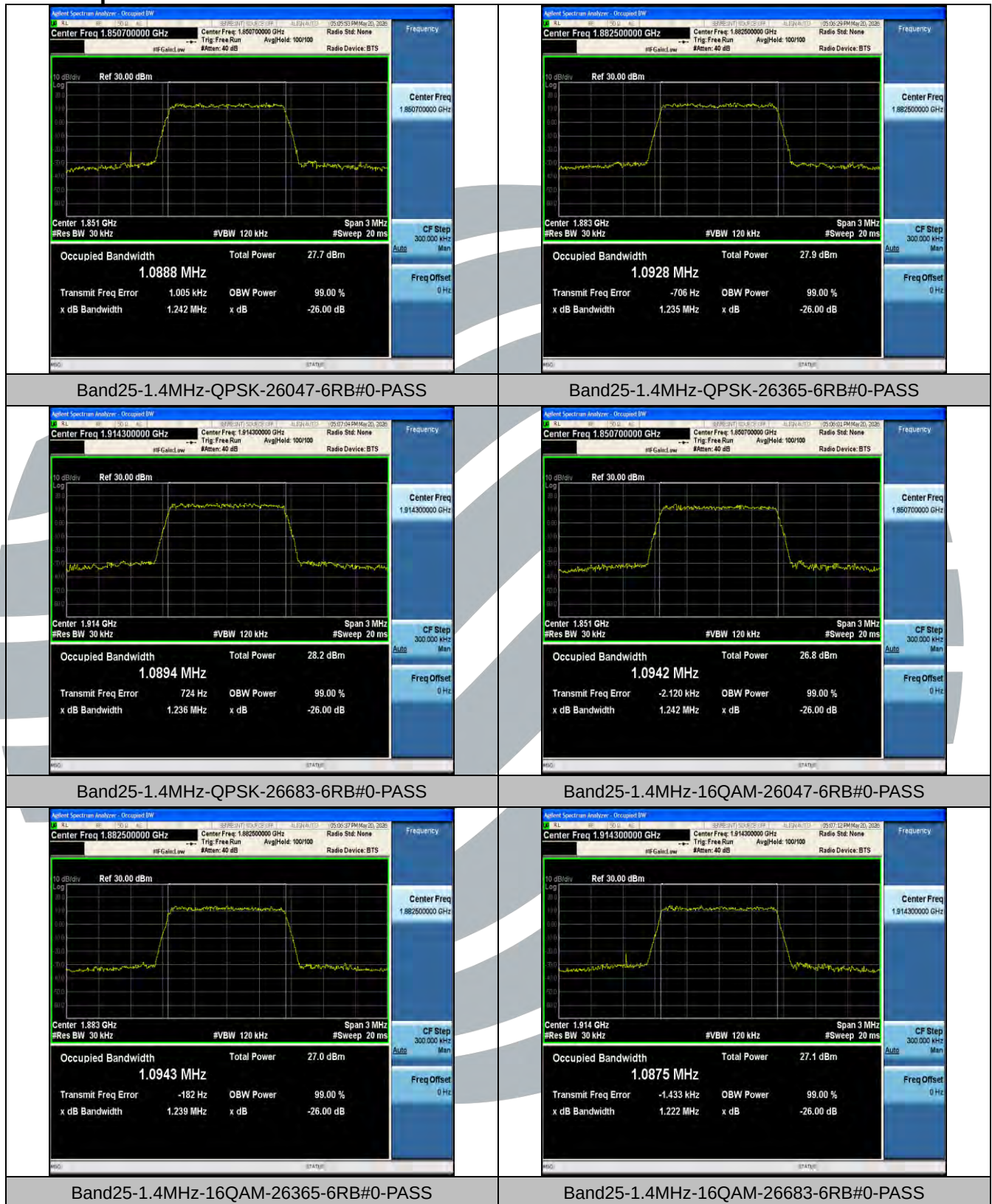


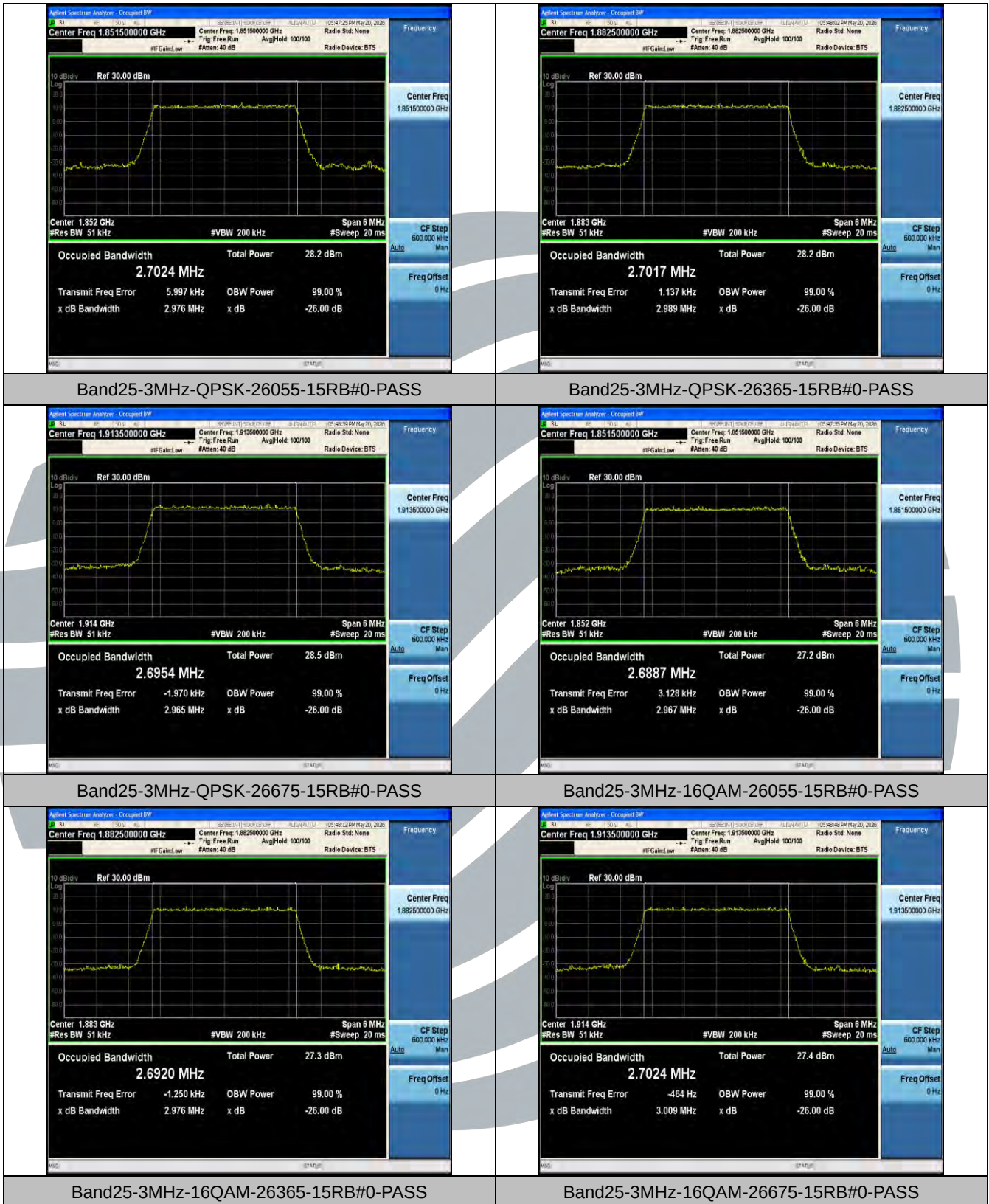
E.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

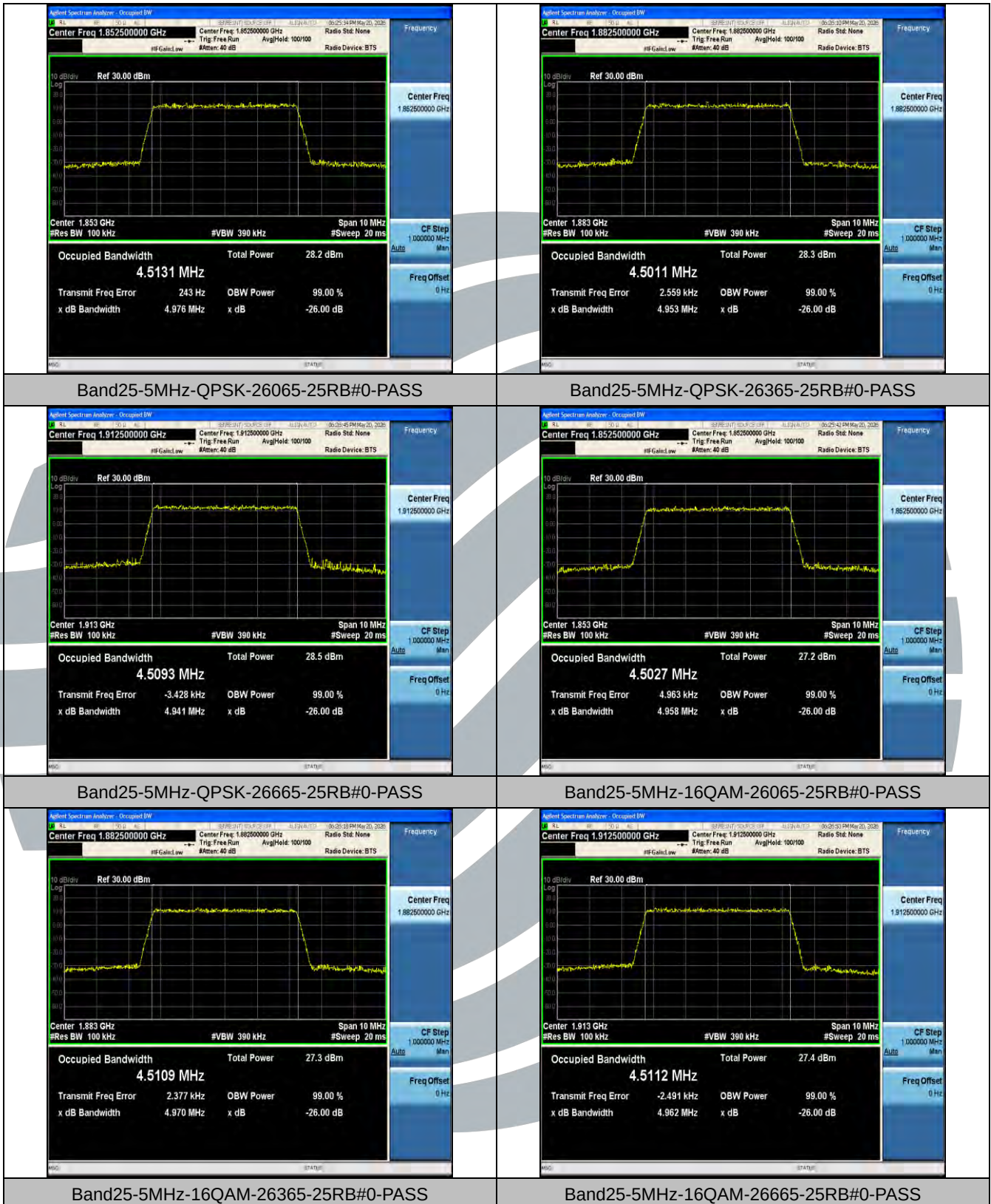
Test Result

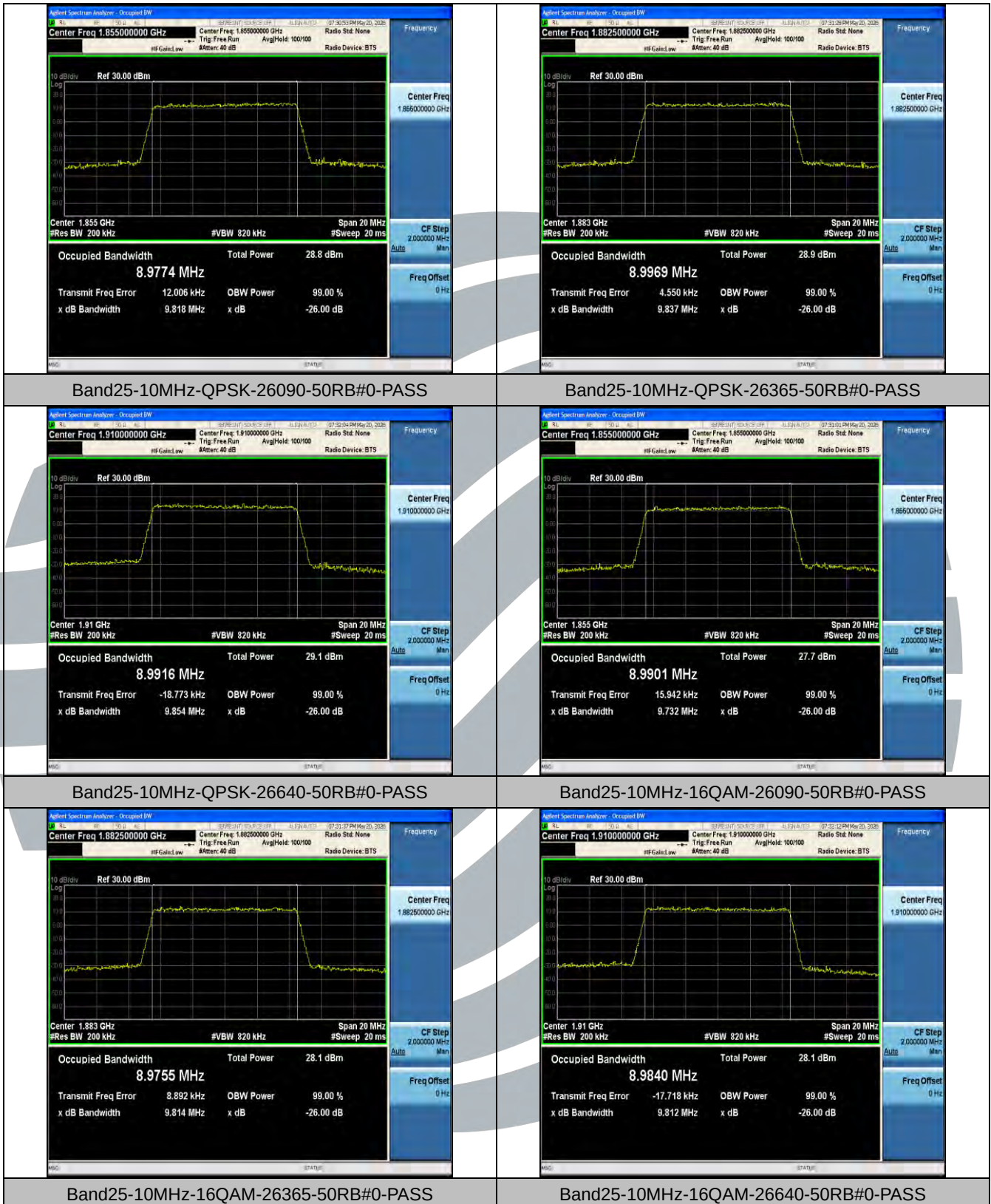
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.0888	1.242	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.0928	1.235	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.0894	1.236	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.0942	1.242	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.0943	1.239	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.0875	1.222	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.7024	2.976	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.7017	2.989	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.6954	2.965	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.6887	2.967	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.6920	2.976	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.7024	3.009	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.5131	4.976	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.5011	4.953	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.5093	4.941	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.5027	4.958	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.5109	4.970	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.5112	4.962	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.9774	9.818	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.9969	9.837	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.9916	9.854	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.9901	9.732	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.9755	9.814	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.9840	9.812	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.505	14.77	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.463	14.88	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.448	14.71	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.459	14.66	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.474	14.68	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.503	14.69	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.918	19.52	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.962	19.66	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.966	19.38	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.990	19.45	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.943	19.49	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.962	19.41	PASS

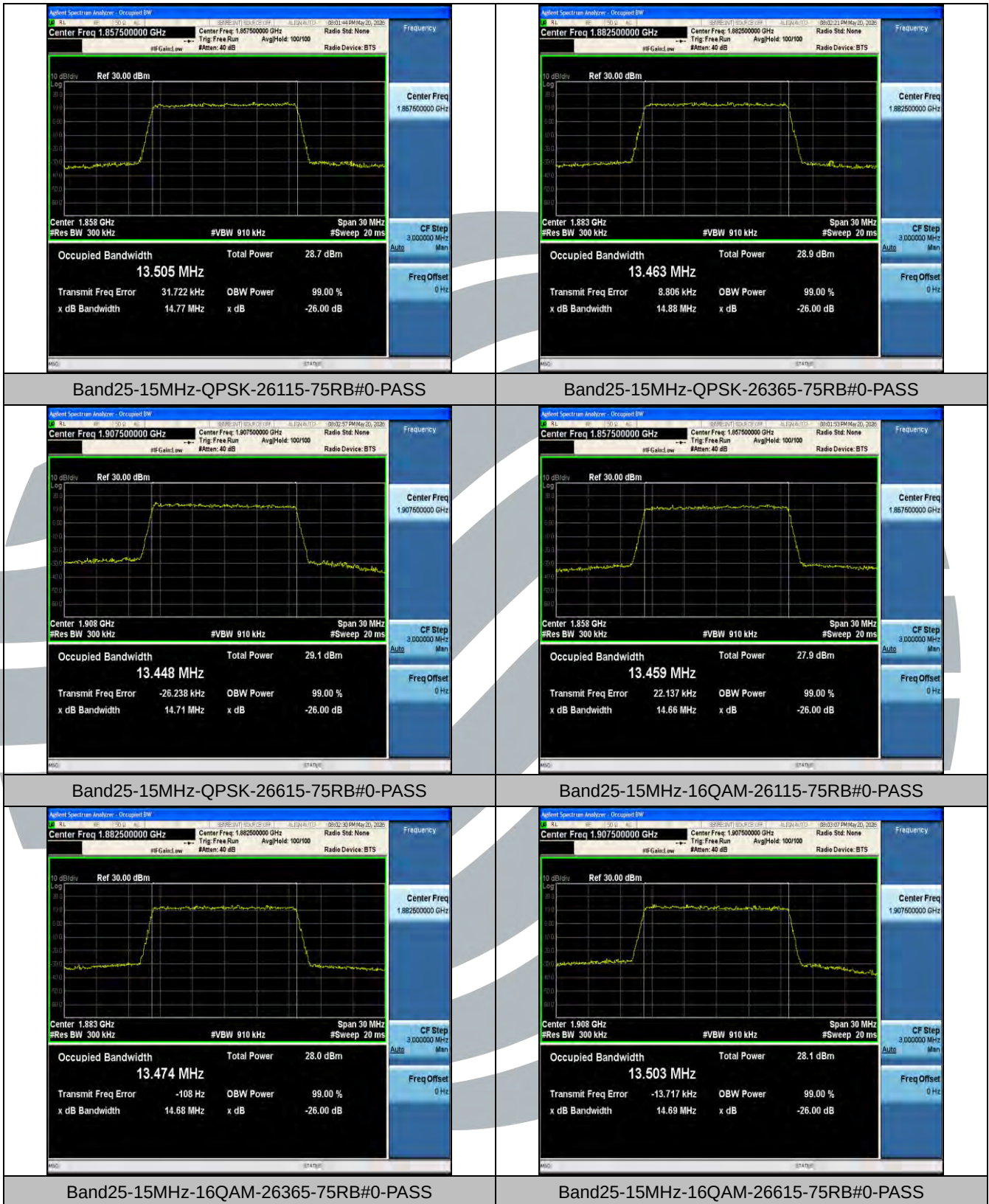
Test Graphs

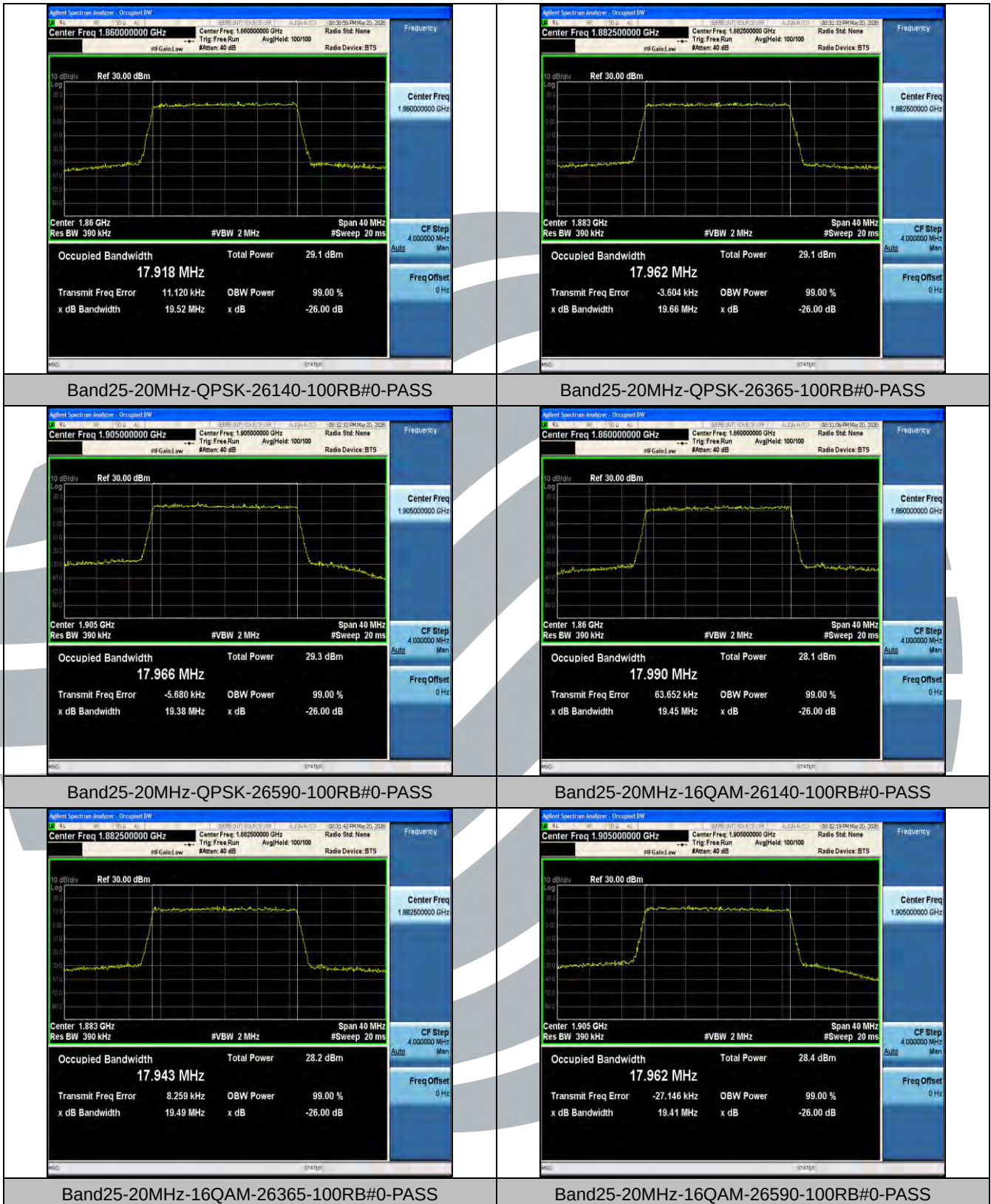










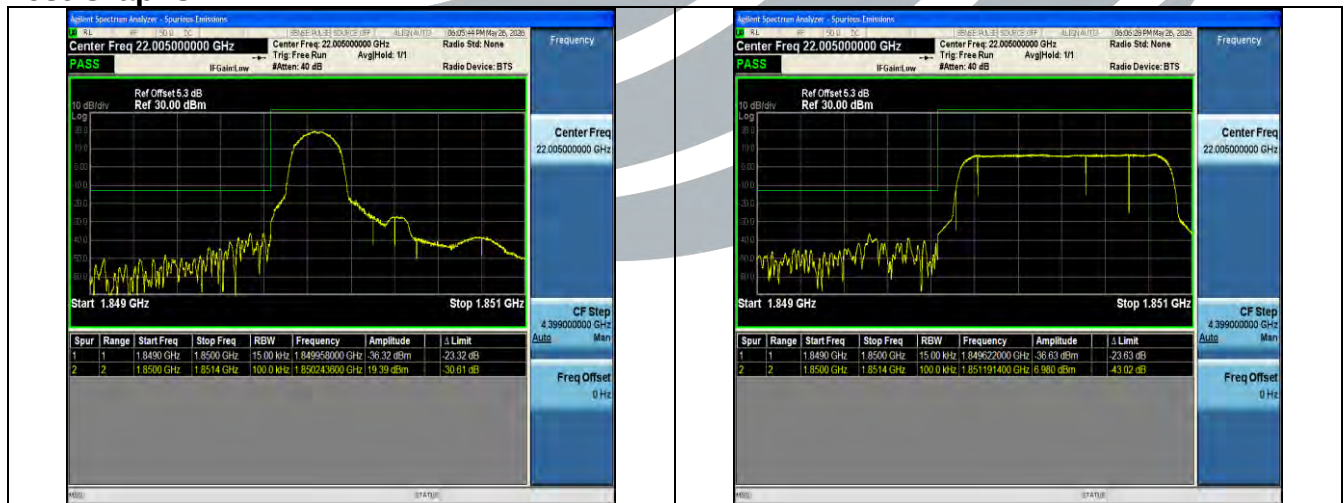


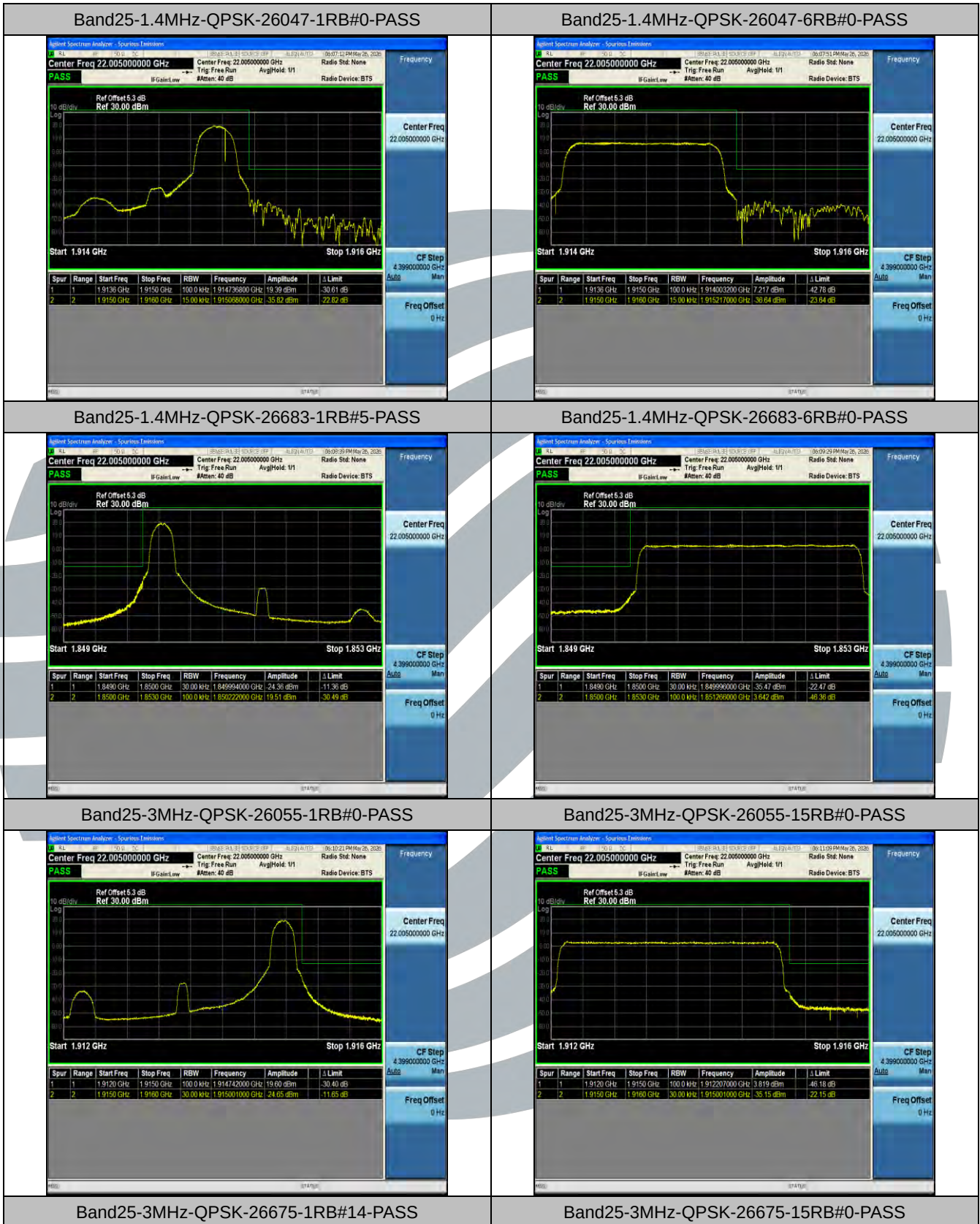
E.3 BAND EDGE

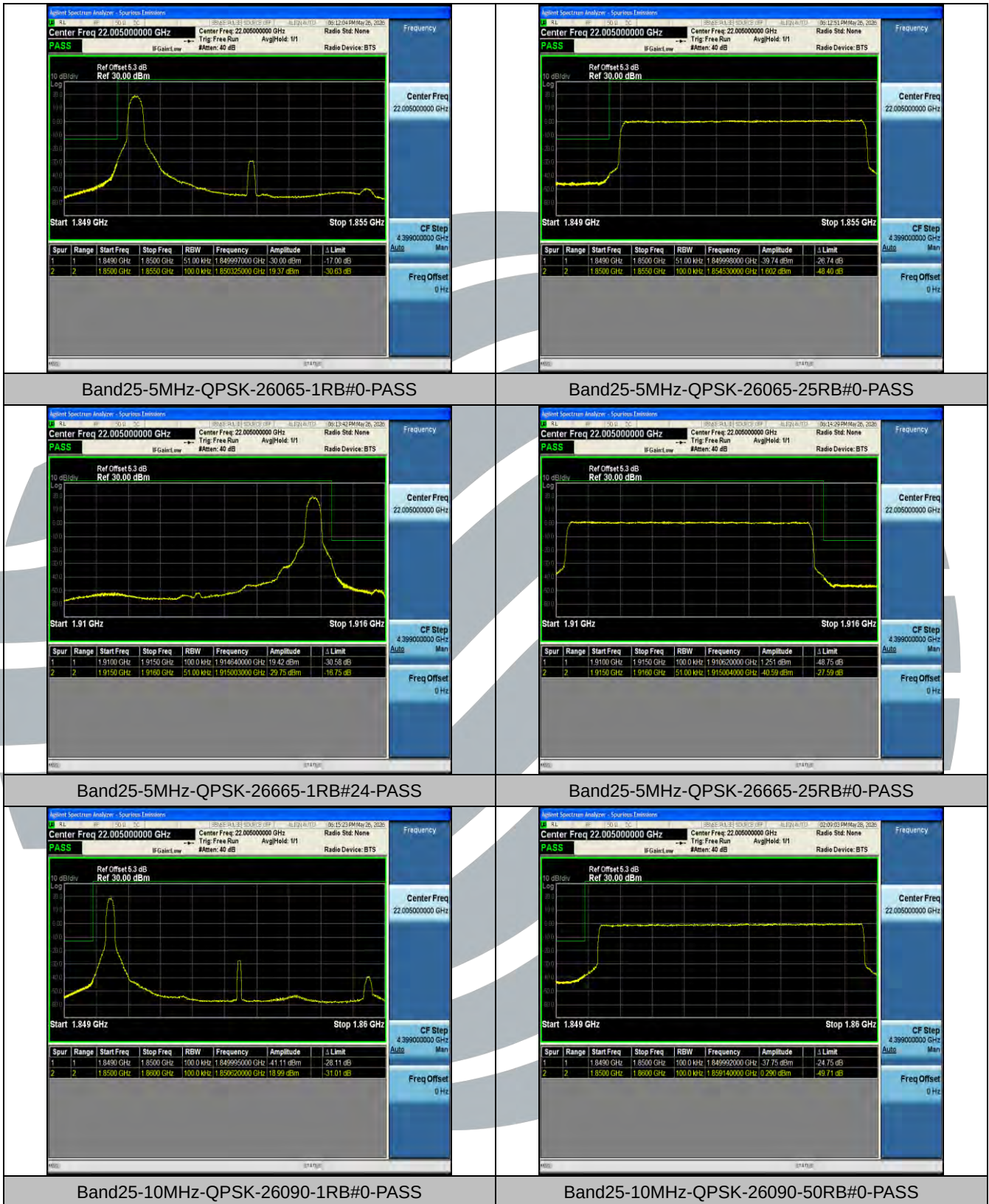
Test Result

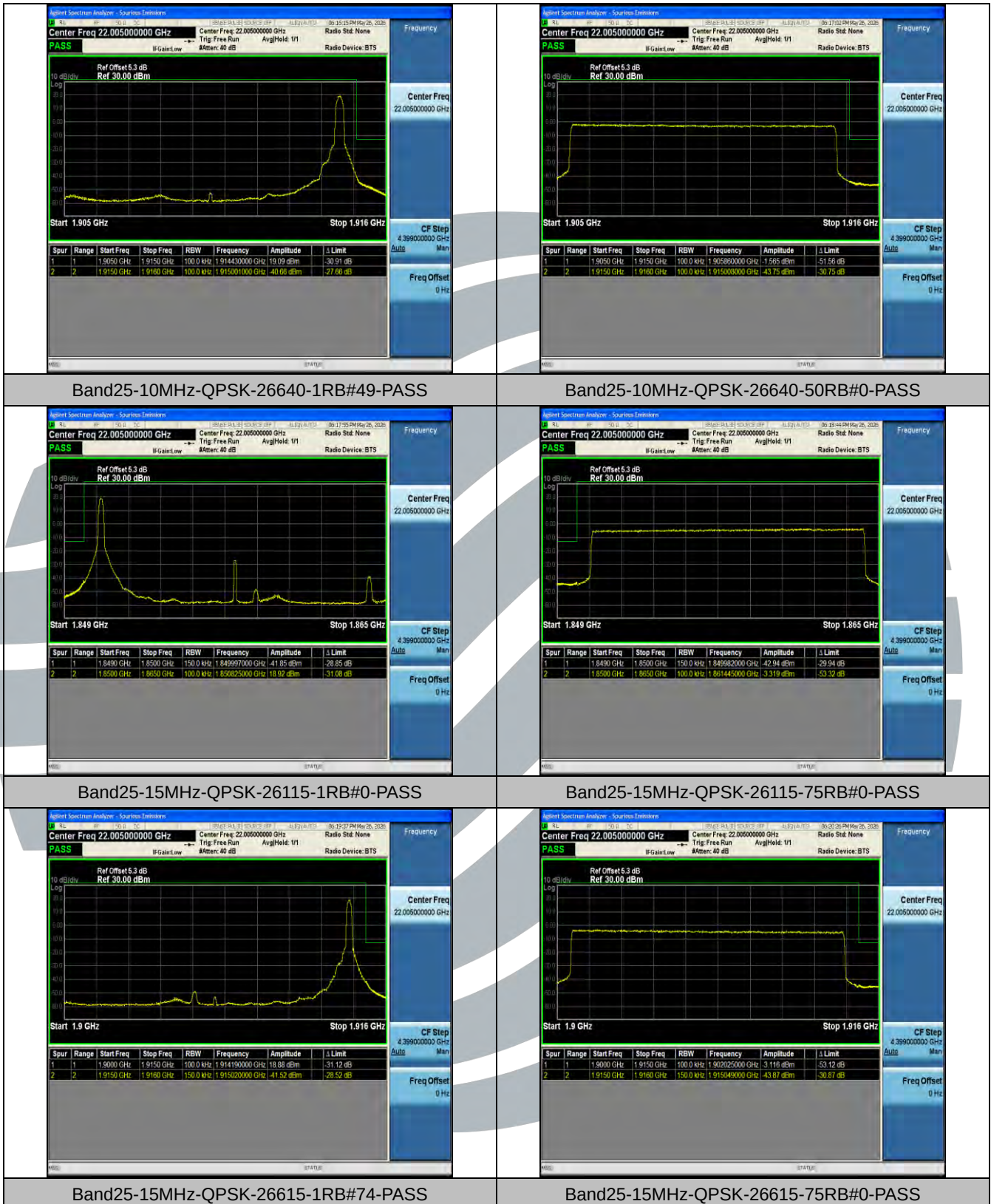
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	-36.32	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	-36.63	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	-35.82	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	-36.64	PASS
Band25	3MHz	QPSK	26055	1RB#0	-24.36	PASS
Band25	3MHz	QPSK	26055	15RB#0	-35.47	PASS
Band25	3MHz	QPSK	26675	1RB#14	-24.65	PASS
Band25	3MHz	QPSK	26675	15RB#0	-35.15	PASS
Band25	5MHz	QPSK	26065	1RB#0	-30.00	PASS
Band25	5MHz	QPSK	26065	25RB#0	-39.74	PASS
Band25	5MHz	QPSK	26665	1RB#24	-29.75	PASS
Band25	5MHz	QPSK	26665	25RB#0	-40.59	PASS
Band25	10MHz	QPSK	26090	1RB#0	-41.11	PASS
Band25	10MHz	QPSK	26090	50RB#0	-37.75	PASS
Band25	10MHz	QPSK	26640	1RB#49	-40.66	PASS
Band25	10MHz	QPSK	26640	50RB#0	-43.75	PASS
Band25	15MHz	QPSK	26115	1RB#0	-41.85	PASS
Band25	15MHz	QPSK	26115	75RB#0	-42.94	PASS
Band25	15MHz	QPSK	26615	1RB#74	-41.52	PASS
Band25	15MHz	QPSK	26615	75RB#0	-43.87	PASS
Band25	20MHz	QPSK	26140	1RB#0	-43.91	PASS
Band25	20MHz	QPSK	26140	100RB#0	-42.70	PASS
Band25	20MHz	QPSK	26590	1RB#99	-42.34	PASS
Band25	20MHz	QPSK	26590	100RB#0	-42.86	PASS

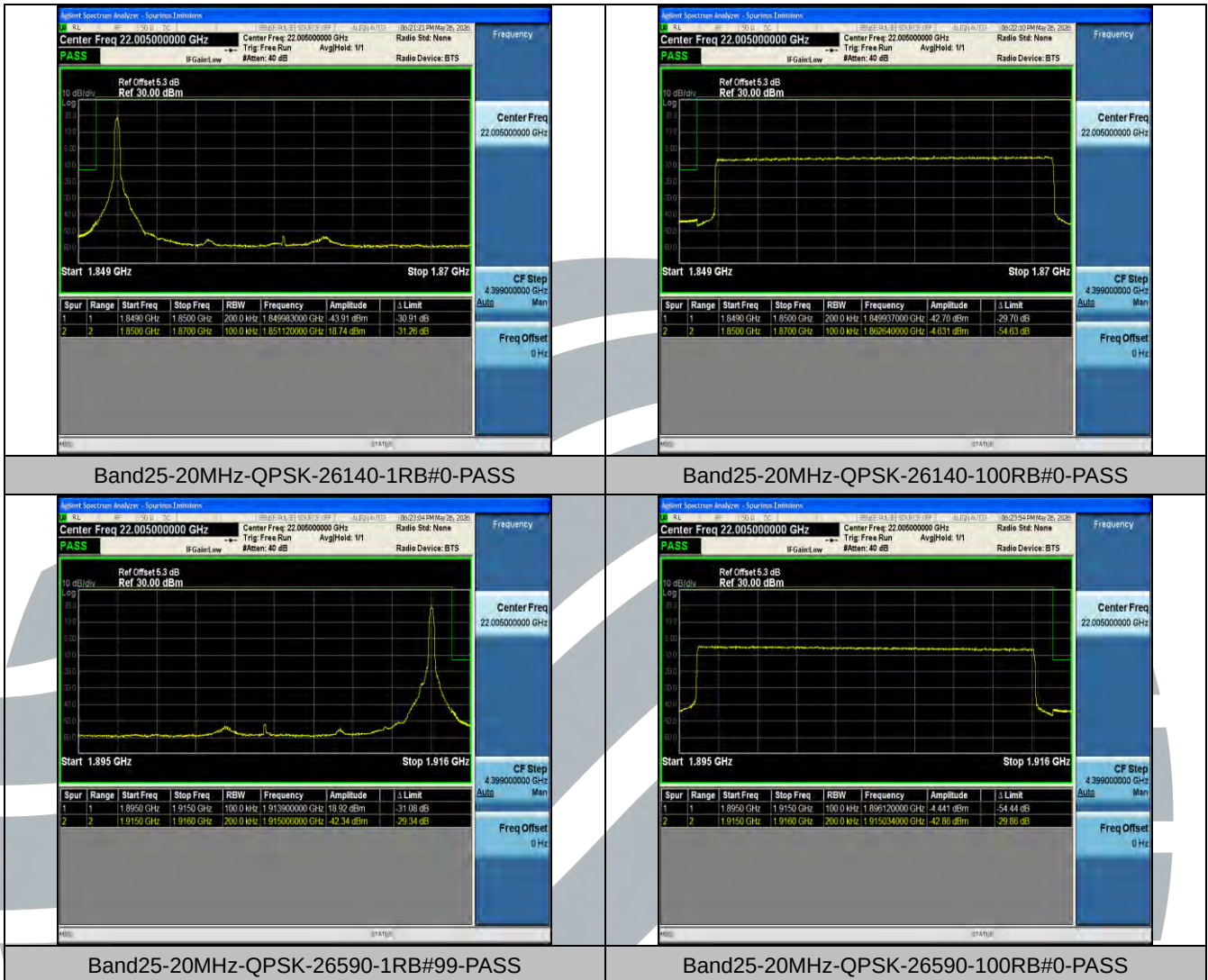
Test Graphs









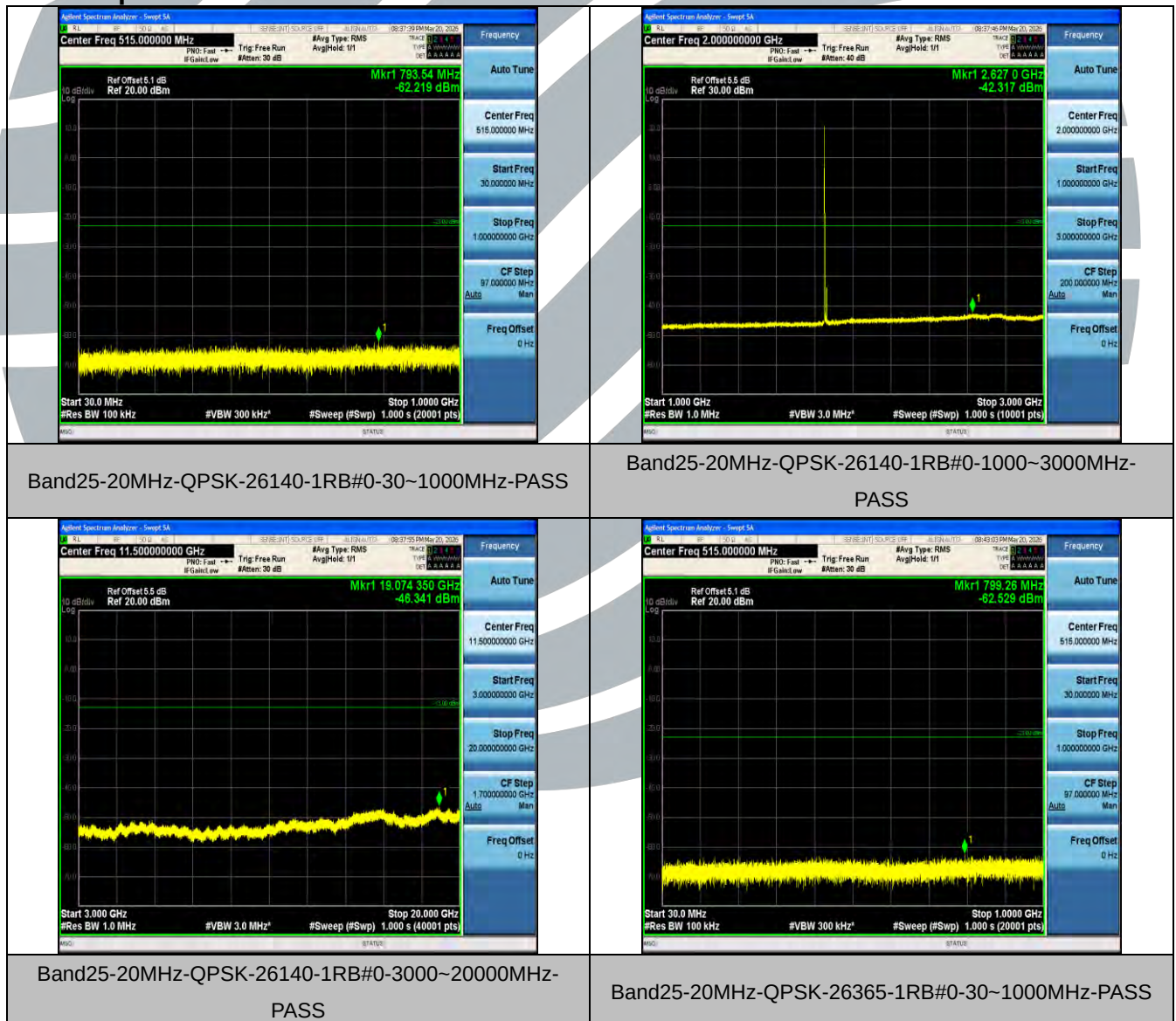


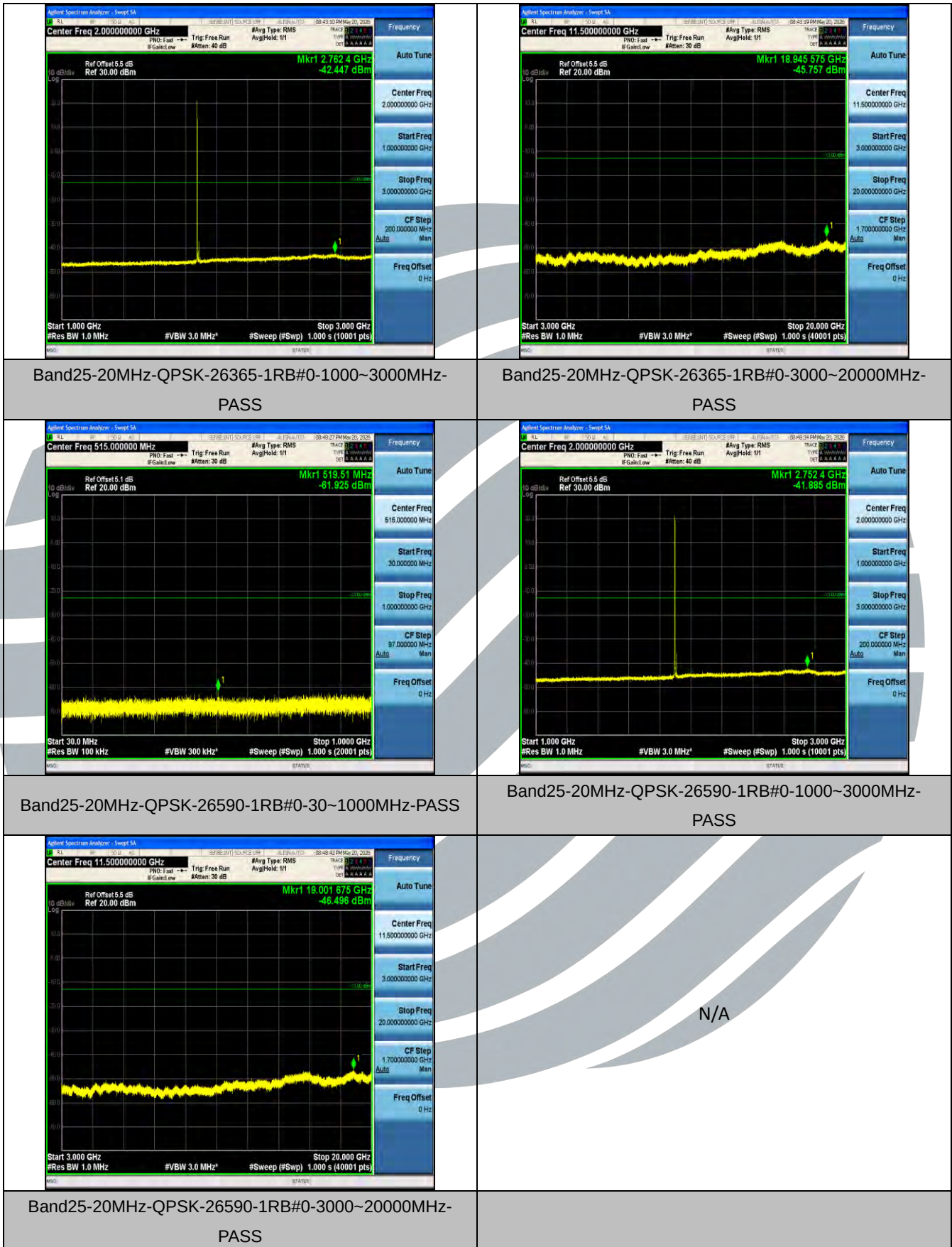
E.4 CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band25	20MHz	QPSK	26140	1RB#0	30~1000	-62.22	PASS
Band25	20MHz	QPSK	26140	1RB#0	1000~3000	-42.32	PASS
Band25	20MHz	QPSK	26140	1RB#0	3000~20000	-46.34	PASS
Band25	20MHz	QPSK	26365	1RB#0	30~1000	-62.53	PASS
Band25	20MHz	QPSK	26365	1RB#0	1000~3000	-42.45	PASS
Band25	20MHz	QPSK	26365	1RB#0	3000~20000	-45.76	PASS
Band25	20MHz	QPSK	26590	1RB#0	30~1000	-61.93	PASS
Band25	20MHz	QPSK	26590	1RB#0	1000~3000	-41.89	PASS
Band25	20MHz	QPSK	26590	1RB#0	3000~20000	-46.50	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	-7.21	-0.003830	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	-6.69	-0.003554	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	-3.66	-0.001944	±2.5	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	-4.13	-0.002194	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	-6.08	-0.003230	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	-4.69	-0.002491	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-6.54	-0.003474	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-5.81	-0.003086	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	-6.39	-0.003394	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-5.64	-0.002996	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	-7.32	-0.003888	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-6.24	-0.003315	±2.5	PASS