

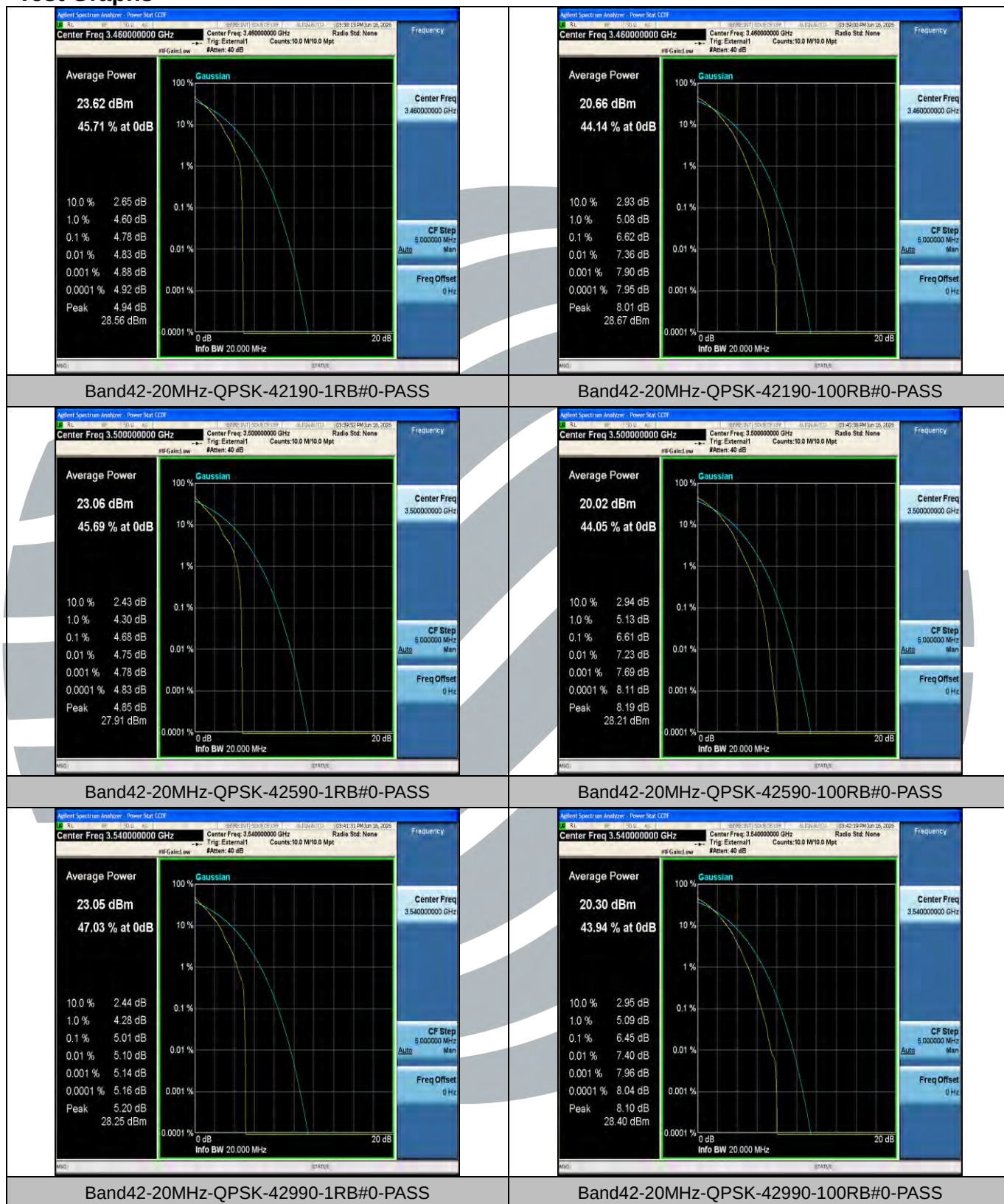
APPENDIX A LTE RF TEST DATA

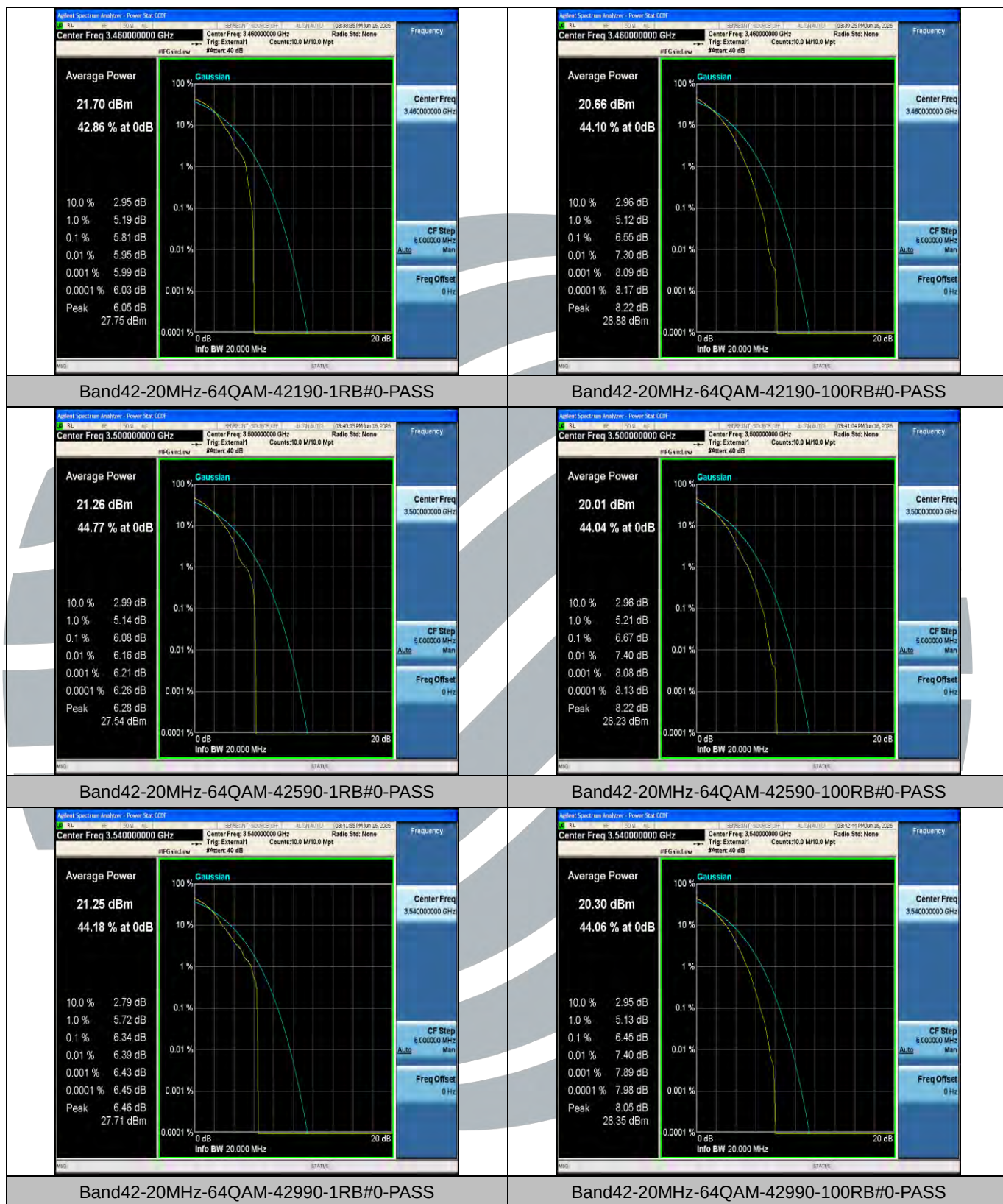
A.1 PEAK-TO-AVERAGE RATIO(CCDF)

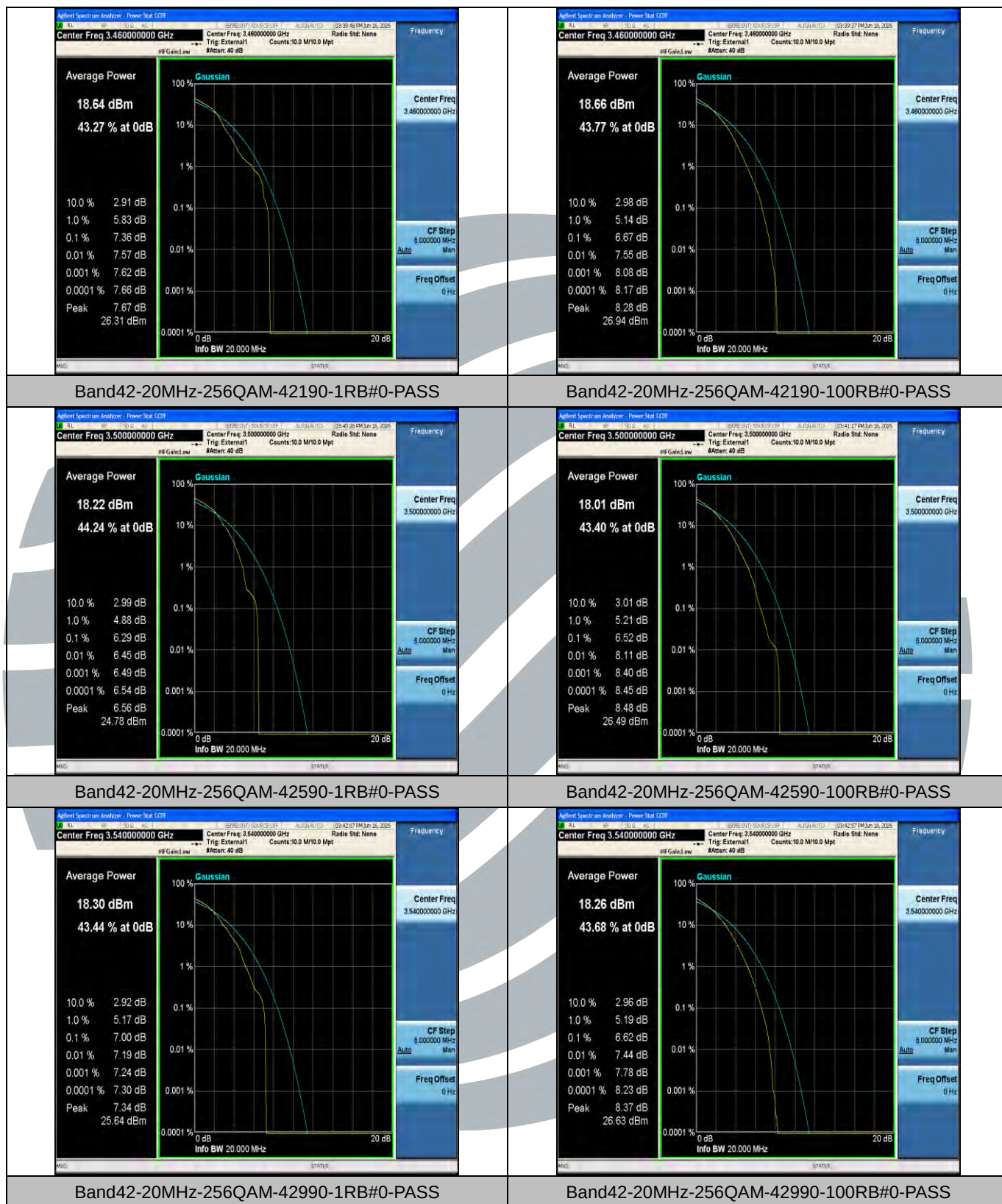
Test Result

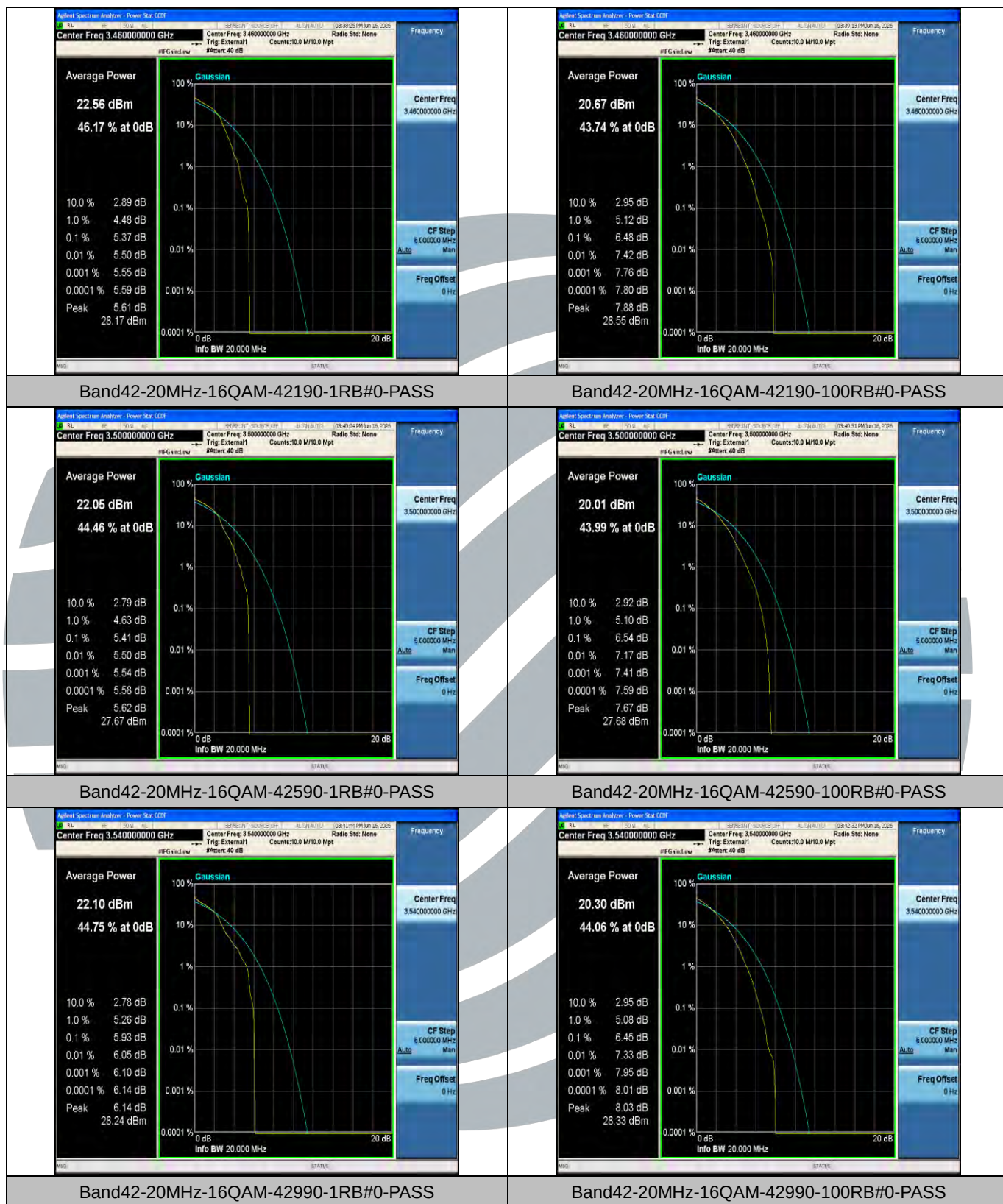
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band42	20MHz	QPSK	42190	1RB#0	4.78	13	PASS
Band42	20MHz	QPSK	42190	100RB#0	6.62	13	PASS
Band42	20MHz	QPSK	42590	1RB#0	4.68	13	PASS
Band42	20MHz	QPSK	42590	100RB#0	6.61	13	PASS
Band42	20MHz	QPSK	42990	1RB#0	5.01	13	PASS
Band42	20MHz	QPSK	42990	100RB#0	6.45	13	PASS
Band42	20MHz	64QAM	42190	1RB#0	5.81	13	PASS
Band42	20MHz	64QAM	42190	100RB#0	6.55	13	PASS
Band42	20MHz	64QAM	42590	1RB#0	6.08	13	PASS
Band42	20MHz	64QAM	42590	100RB#0	6.67	13	PASS
Band42	20MHz	64QAM	42990	1RB#0	6.34	13	PASS
Band42	20MHz	64QAM	42990	100RB#0	6.45	13	PASS
Band42	20MHz	256QAM	42190	1RB#0	7.36	13	PASS
Band42	20MHz	256QAM	42190	100RB#0	6.67	13	PASS
Band42	20MHz	256QAM	42590	1RB#0	6.29	13	PASS
Band42	20MHz	256QAM	42590	100RB#0	6.52	13	PASS
Band42	20MHz	256QAM	42990	1RB#0	7.00	13	PASS
Band42	20MHz	256QAM	42990	100RB#0	6.62	13	PASS
Band42	20MHz	16QAM	42190	1RB#0	5.37	13	PASS
Band42	20MHz	16QAM	42190	100RB#0	6.48	13	PASS
Band42	20MHz	16QAM	42590	1RB#0	5.41	13	PASS
Band42	20MHz	16QAM	42590	100RB#0	6.54	13	PASS
Band42	20MHz	16QAM	42990	1RB#0	5.93	13	PASS
Band42	20MHz	16QAM	42990	100RB#0	6.45	13	PASS

Test Graphs







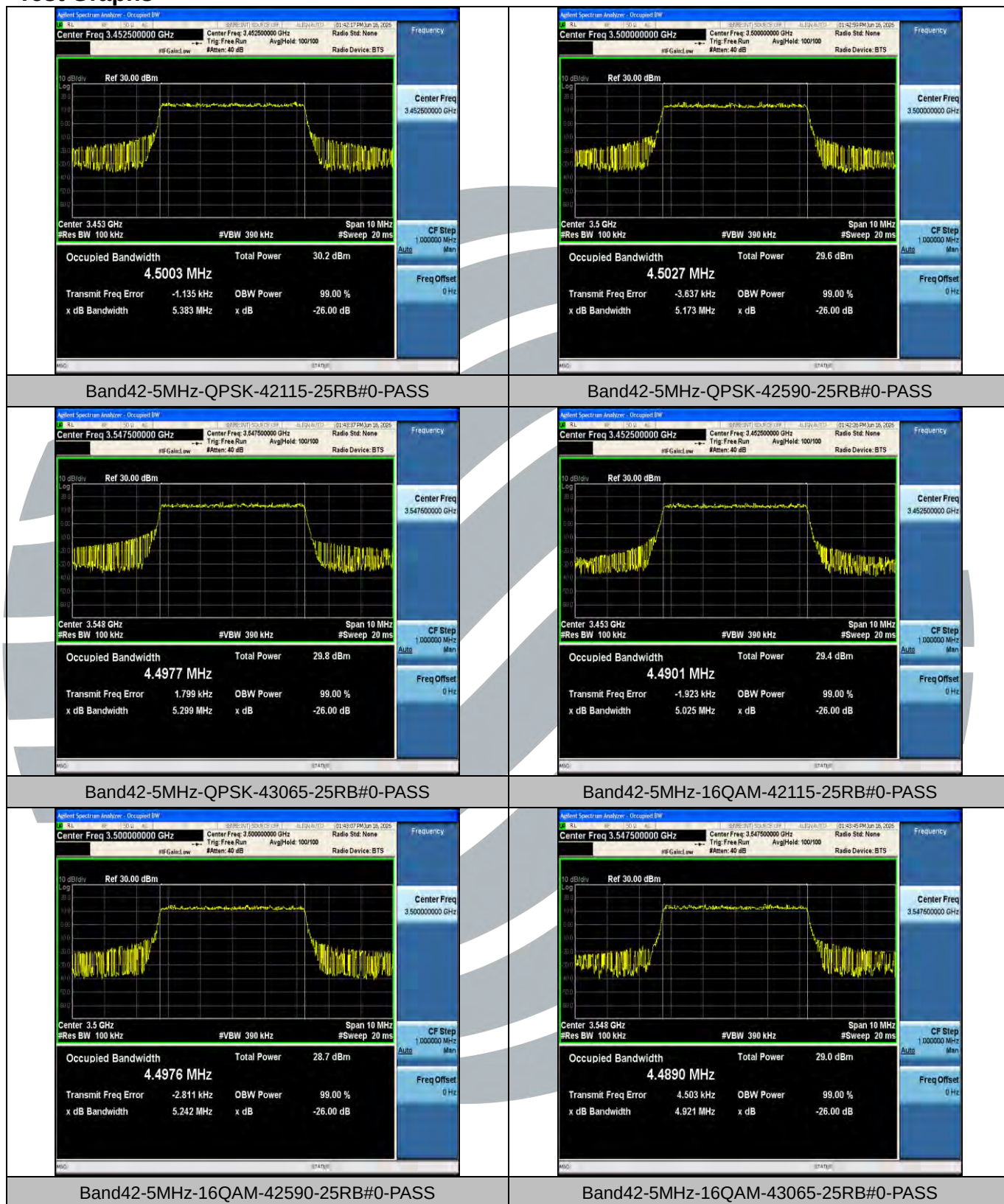


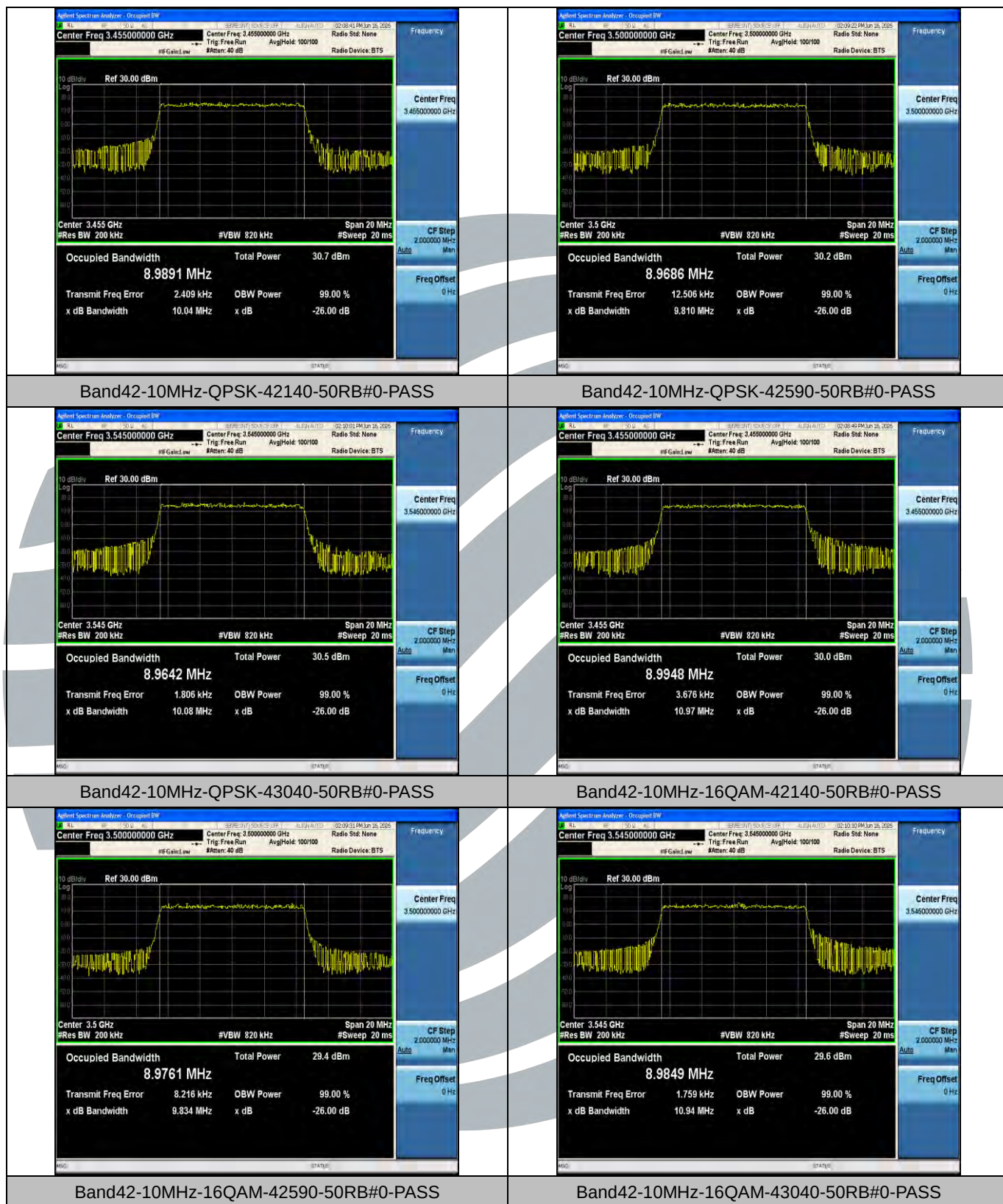
A.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

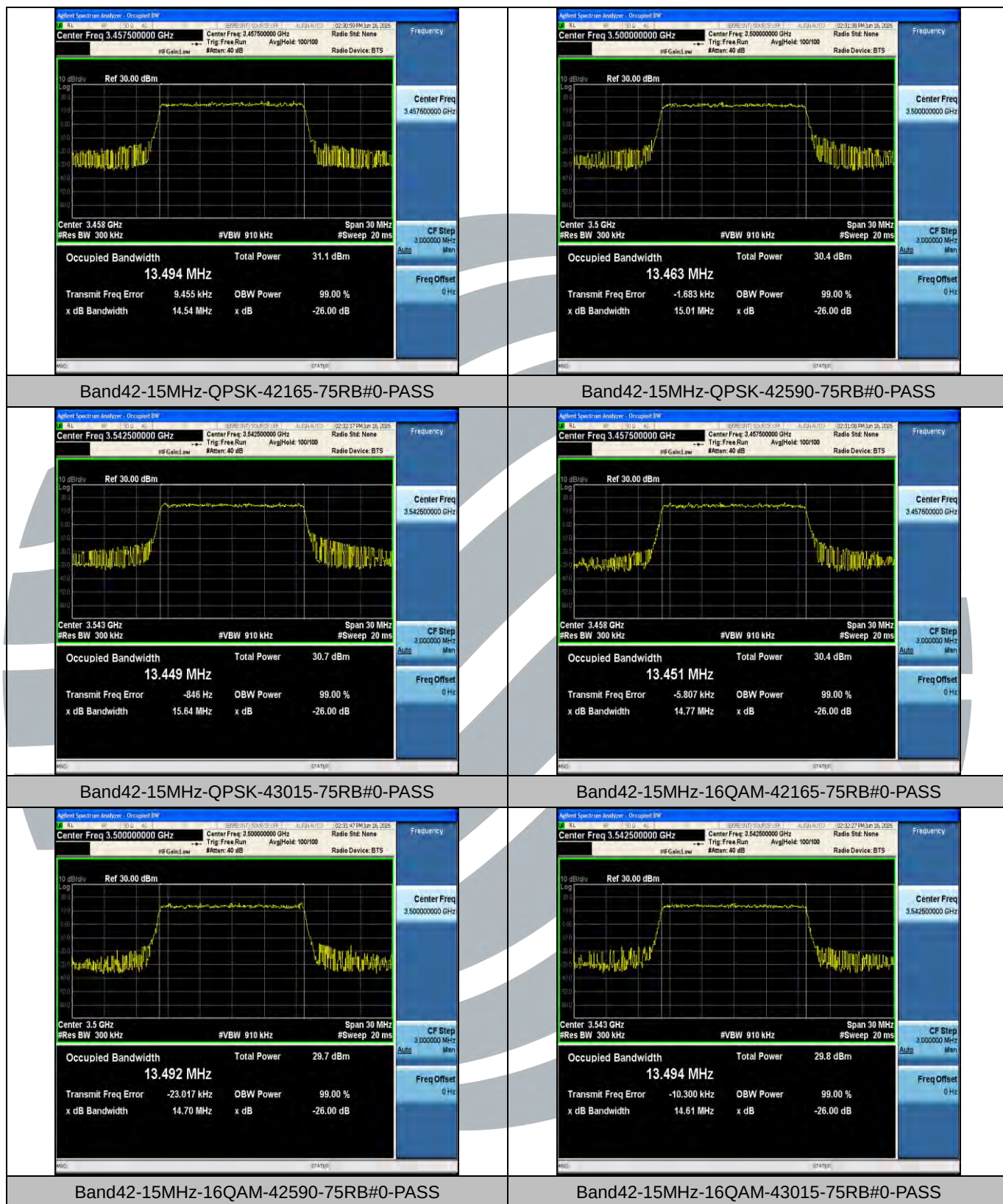
Test Result

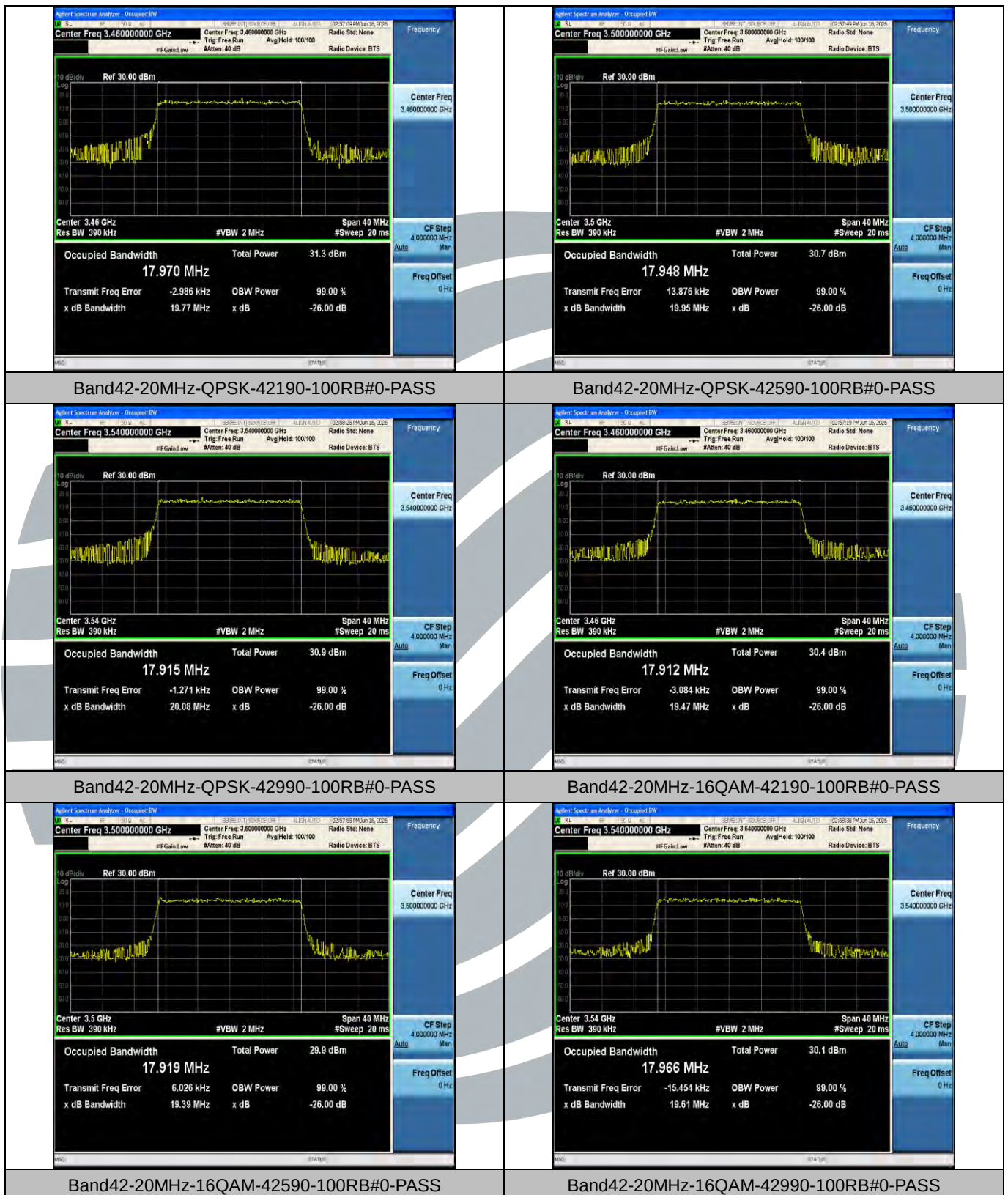
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band42	5MHz	QPSK	42115	25RB#0	4.5003	5.383	PASS
Band42	5MHz	QPSK	42590	25RB#0	4.5027	5.173	PASS
Band42	5MHz	QPSK	43065	25RB#0	4.4977	5.299	PASS
Band42	5MHz	16QAM	42115	25RB#0	4.4901	5.025	PASS
Band42	5MHz	16QAM	42590	25RB#0	4.4976	5.242	PASS
Band42	5MHz	16QAM	43065	25RB#0	4.4890	4.921	PASS
Band42	10MHz	QPSK	42140	50RB#0	8.9891	10.04	PASS
Band42	10MHz	QPSK	42590	50RB#0	8.9686	9.810	PASS
Band42	10MHz	QPSK	43040	50RB#0	8.9642	10.08	PASS
Band42	10MHz	16QAM	42140	50RB#0	8.9948	10.97	PASS
Band42	10MHz	16QAM	42590	50RB#0	8.9761	9.834	PASS
Band42	10MHz	16QAM	43040	50RB#0	8.9849	10.94	PASS
Band42	15MHz	QPSK	42165	75RB#0	13.494	14.54	PASS
Band42	15MHz	QPSK	42590	75RB#0	13.463	15.01	PASS
Band42	15MHz	QPSK	43015	75RB#0	13.449	15.64	PASS
Band42	15MHz	16QAM	42165	75RB#0	13.451	14.77	PASS
Band42	15MHz	16QAM	42590	75RB#0	13.492	14.70	PASS
Band42	15MHz	16QAM	43015	75RB#0	13.494	14.61	PASS
Band42	20MHz	QPSK	42190	100RB#0	17.970	19.77	PASS
Band42	20MHz	QPSK	42590	100RB#0	17.948	19.95	PASS
Band42	20MHz	QPSK	42990	100RB#0	17.915	20.08	PASS
Band42	20MHz	16QAM	42190	100RB#0	17.912	19.47	PASS
Band42	20MHz	16QAM	42590	100RB#0	17.919	19.39	PASS
Band42	20MHz	16QAM	42990	100RB#0	17.966	19.61	PASS

Test Graphs





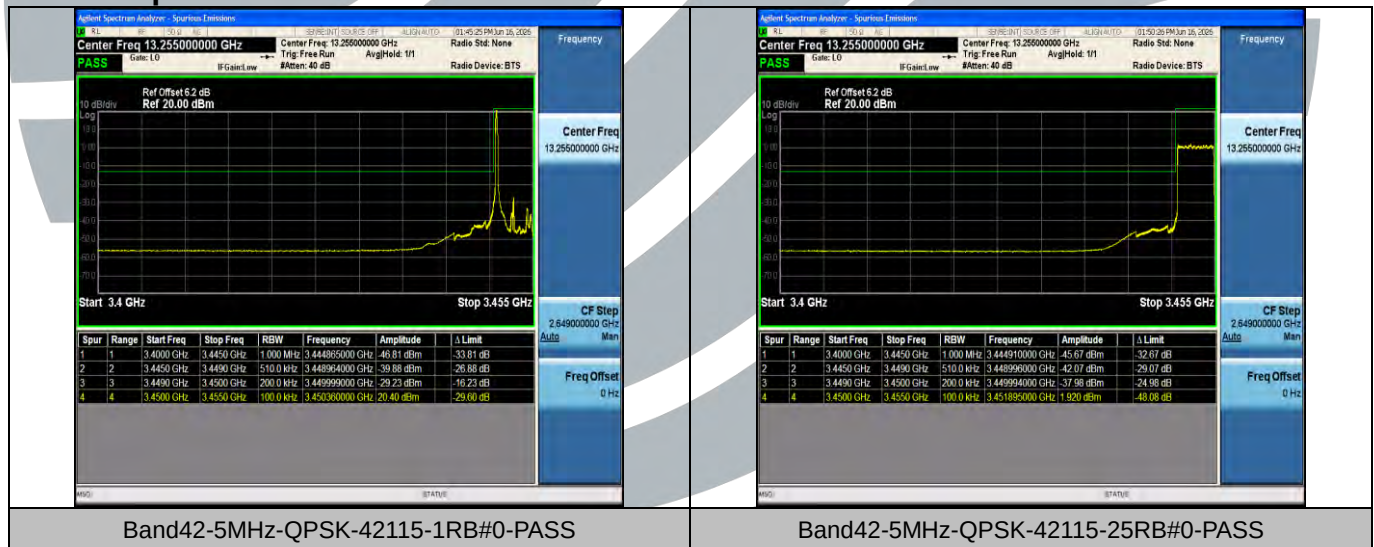


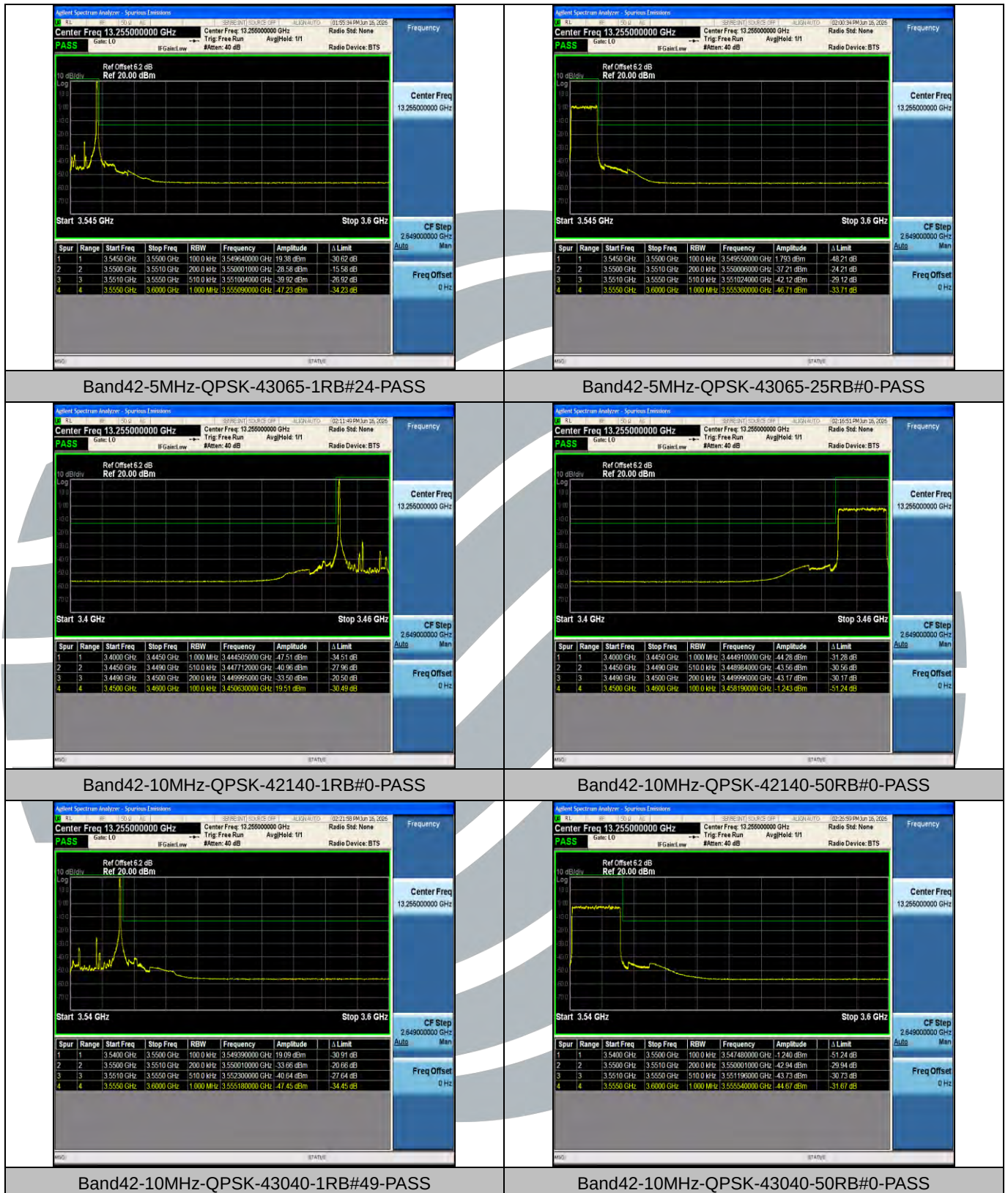


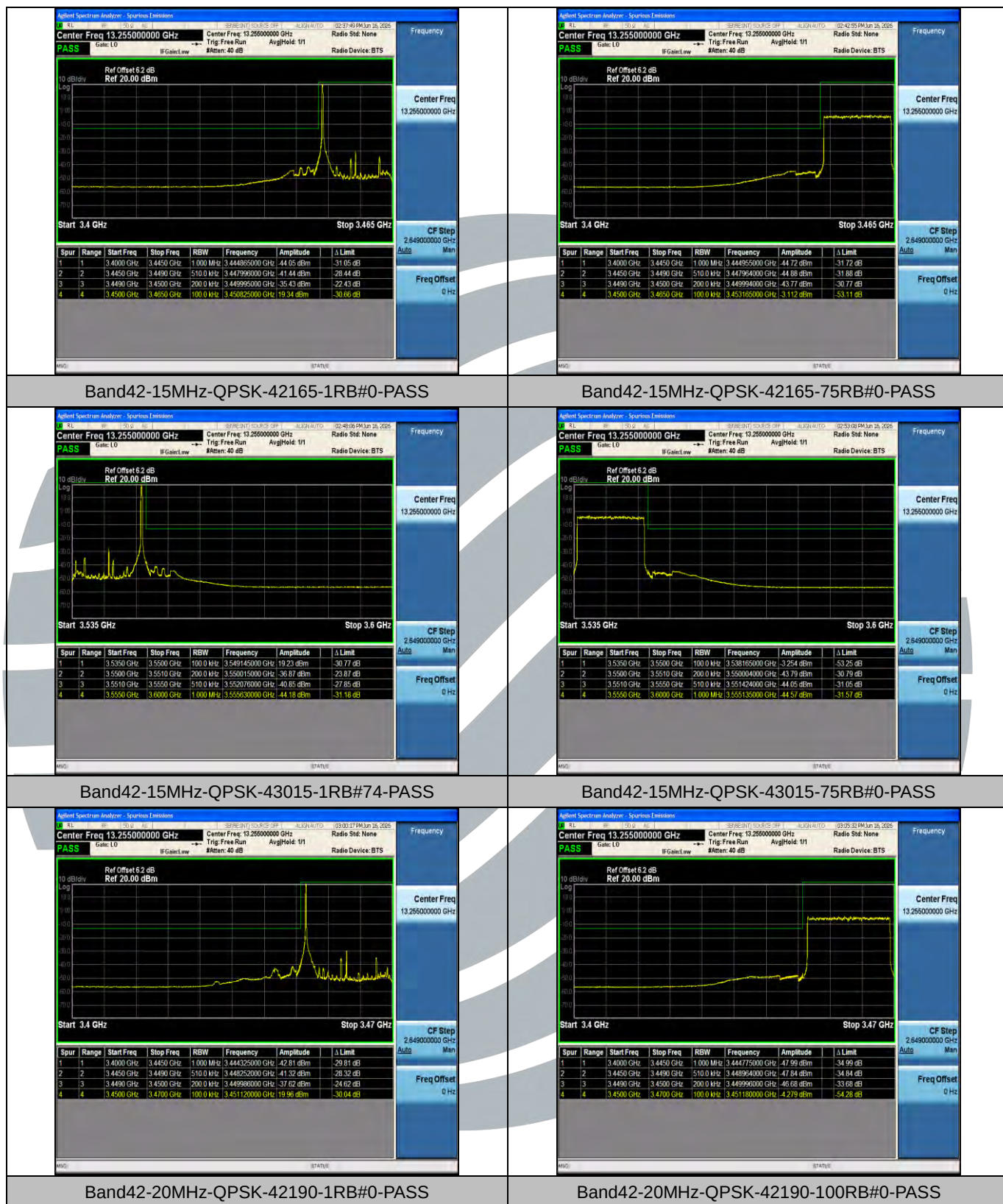
A.3 BAND EDGE Test Result

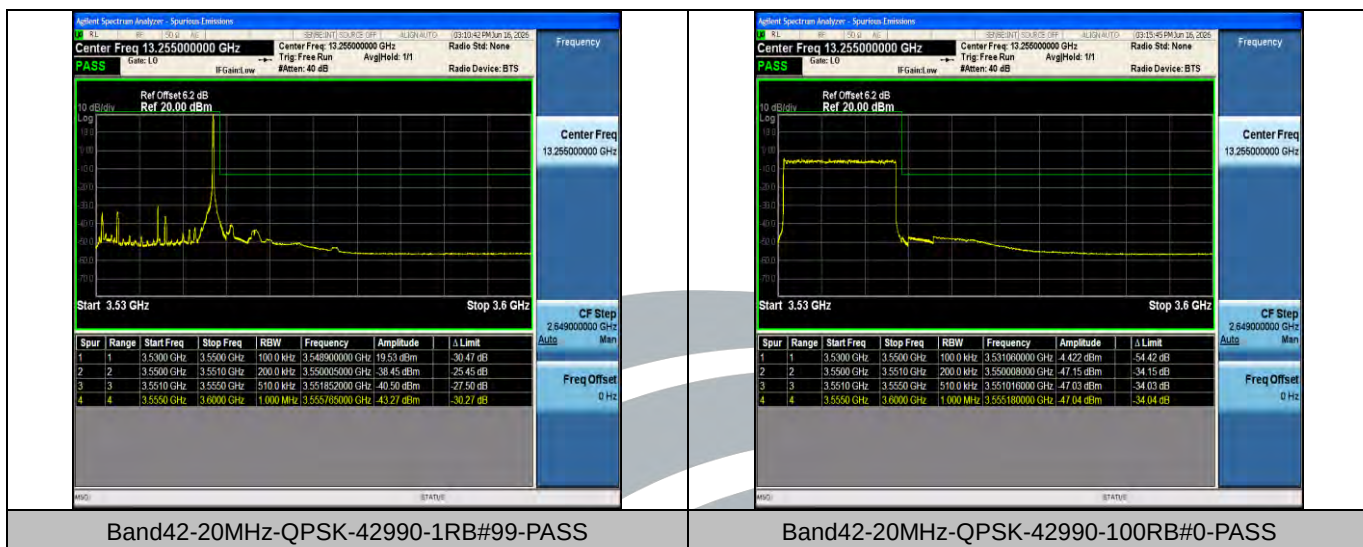
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band42	5MHz	QPSK	42115	1RB#0	-29.23	PASS
Band42	5MHz	QPSK	42115	25RB#0	-37.98	PASS
Band42	5MHz	QPSK	43065	1RB#24	-28.58	PASS
Band42	5MHz	QPSK	43065	25RB#0	-37.21	PASS
Band42	10MHz	QPSK	42140	1RB#0	-33.50	PASS
Band42	10MHz	QPSK	42140	50RB#0	-43.17	PASS
Band42	10MHz	QPSK	43040	1RB#49	-33.66	PASS
Band42	10MHz	QPSK	43040	50RB#0	-42.94	PASS
Band42	15MHz	QPSK	42165	1RB#0	-35.43	PASS
Band42	15MHz	QPSK	42165	75RB#0	-43.77	PASS
Band42	15MHz	QPSK	43015	1RB#74	-36.87	PASS
Band42	15MHz	QPSK	43015	75RB#0	-43.79	PASS
Band42	20MHz	QPSK	42190	1RB#0	-37.62	PASS
Band42	20MHz	QPSK	42190	100RB#0	-46.68	PASS
Band42	20MHz	QPSK	42990	1RB#99	-38.45	PASS
Band42	20MHz	QPSK	42990	100RB#0	-47.03	PASS

Test Graphs







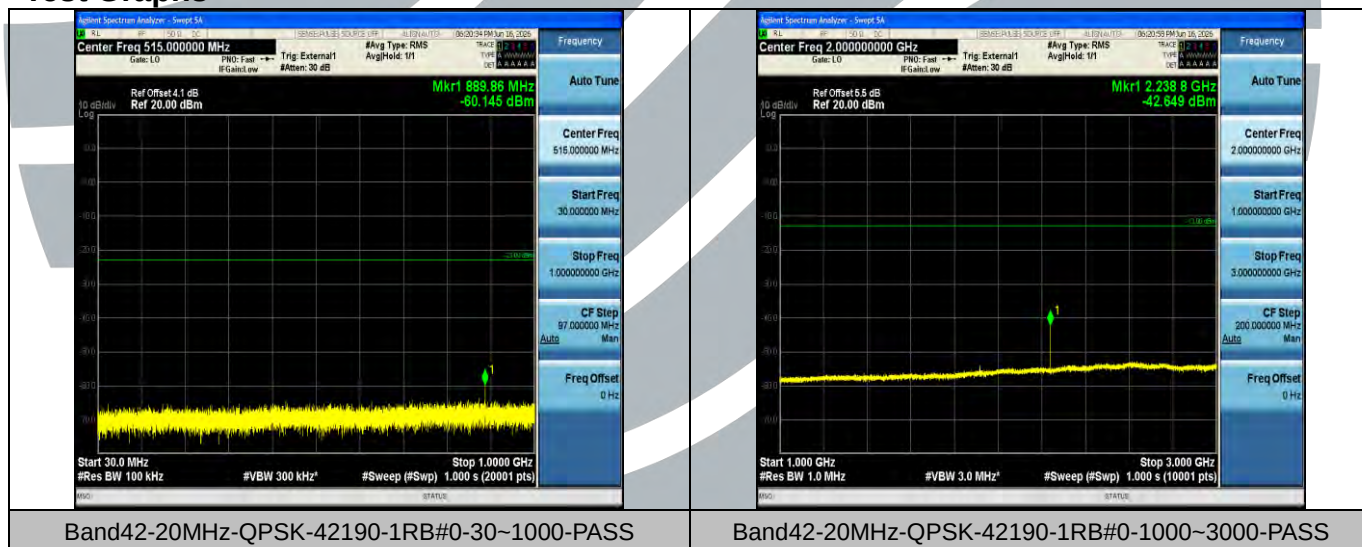


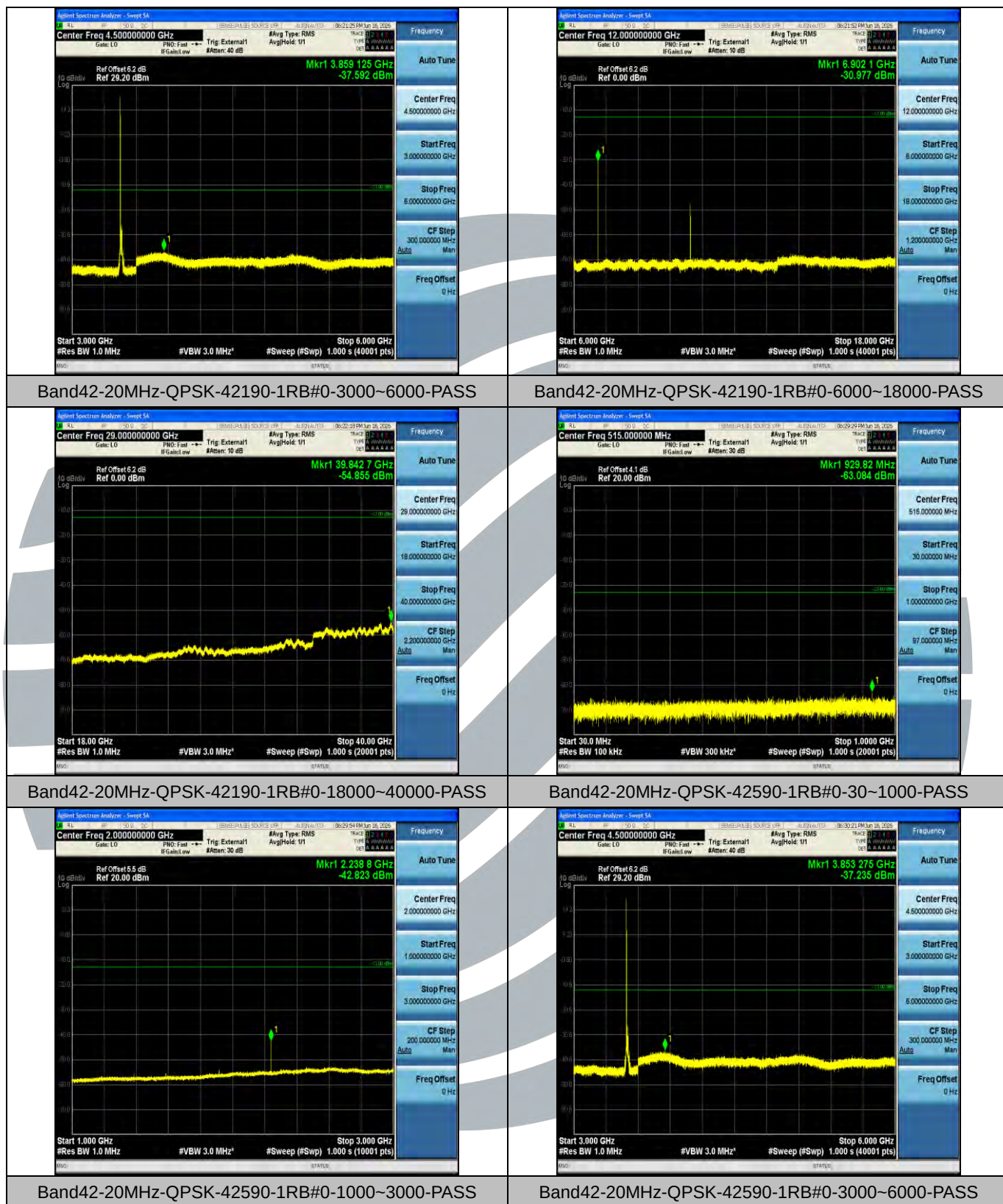
A.4 CONDUCTED SPURIOUS EMISSION

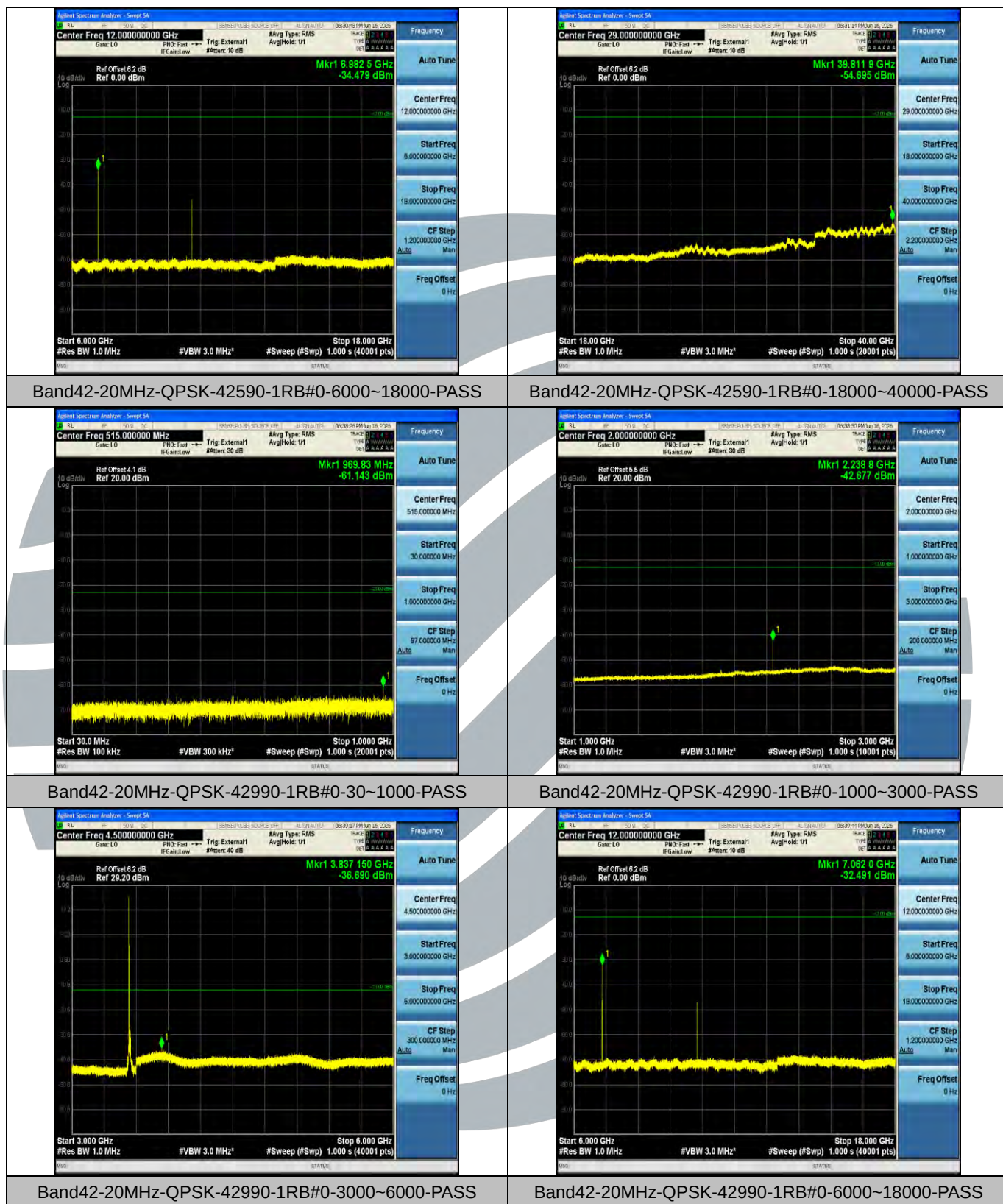
Test Result

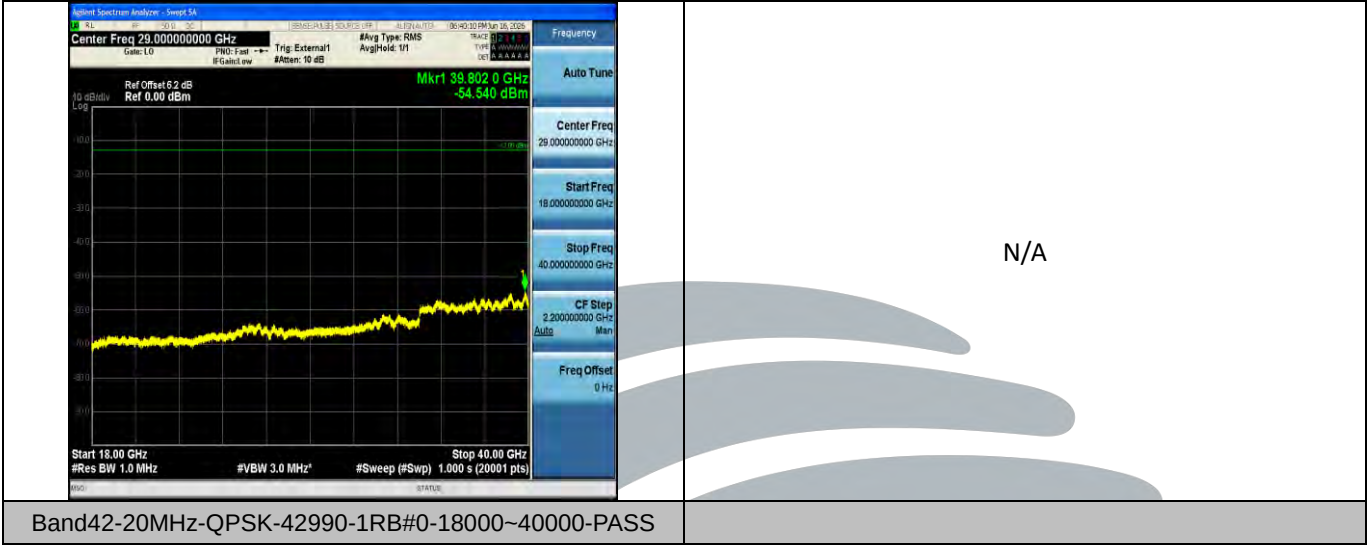
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band42	20MHz	QPSK	42190	1RB#0	30~1000	-60.15	PASS
Band42	20MHz	QPSK	42190	1RB#0	1000~3000	-42.65	PASS
Band42	20MHz	QPSK	42190	1RB#0	3000~6000	-37.59	PASS
Band42	20MHz	QPSK	42190	1RB#0	6000~18000	-30.98	PASS
Band42	20MHz	QPSK	42190	1RB#0	18000~40000	-54.86	PASS
Band42	20MHz	QPSK	42590	1RB#0	30~1000	-63.08	PASS
Band42	20MHz	QPSK	42590	1RB#0	1000~3000	-42.82	PASS
Band42	20MHz	QPSK	42590	1RB#0	3000~6000	-37.24	PASS
Band42	20MHz	QPSK	42590	1RB#0	6000~18000	-34.48	PASS
Band42	20MHz	QPSK	42590	1RB#0	18000~40000	-54.70	PASS
Band42	20MHz	QPSK	42990	1RB#0	30~1000	-61.14	PASS
Band42	20MHz	QPSK	42990	1RB#0	1000~3000	-42.68	PASS
Band42	20MHz	QPSK	42990	1RB#0	3000~6000	-36.69	PASS
Band42	20MHz	QPSK	42990	1RB#0	6000~18000	-32.49	PASS
Band42	20MHz	QPSK	42990	1RB#0	18000~40000	-54.54	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
Band42	20MHz	QPSK	42590	100RB#0	VN	NT	13.38	0.003823	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	VL	NT	15.51	0.004431	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	VH	NT	-14.96	-0.004274	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	NV	-30	-15.61	-0.004460	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-20	-16.61	-0.004746	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-10	-17.25	-0.004929	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	0	-18.05	-0.005157	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	10	-13.28	-0.003794	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	20	21.74	0.006211	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	30	-24.28	-0.006937	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	40	12.20	0.003486	±2.5	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	50	-16.51	-0.004717	±2.5	PASS